Chevrolet

Express Van



2006

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Product Information

2006 Chevrolet Express Available With Duramax 6600 Turbo-Diesel

The Chevrolet Express sees a host of duties: as a proven passenger hauler – able to accommodate up to 15 passengers – as the foundation for conversion vans and as a durable and reliable commercial cargo van. As such, Express customers rely on their vehicles to haul and tow items. That task becomes even easier for 2006 with the introduction of the Duramax 6600 turbo-diesel V-8 engine. This sophisticated diesel engine offers more horsepower and torque than the primary competitor, as well as a quieter driving experience and better projected fuel economy. It's available on G2500 and G3500 series cargo and cutaway models.

"With the inherent capabilities of a diesel engine and excellent fuel economy, the Duramax 6600 is a win-win scenario for Express Cargo Van customers," said Ray Chess, vehicle line executive. "This engine also is quiet, refined and delivers a smoothness that is unexpected in a powerful diesel-powered vehicle."

Duramax 6600 turbo-diesel

The Duramax 6600 delivers 250 horsepower (186 kw) and a class-leading 460 lb.-ft. of torque (624 Nm). It is teamed with the Hydra-Matic 4L85-E electronically controlled four-speed automatic transmission, which is specially tuned for diesel-engine compatibility, giving Express exceptional towing and grade capability. It's available on G2500 and G3500 Express Cargo Van models.

Features such as electronic throttle control, fast-heating glow plugs and easy-service items enhance the driving and ownership experience. Minimal changes to support the new powertrain were made to the vehicle structure, thereby reducing the impact of equipment changes by upfitters.

With the Duramax 6600, Express' maximum GVWR is 12,300, with a towing capacity of 10,000 pounds – specifications that meet or exceed those of the primary competitor. A 3.73 axle ratio is standard and the RPO G80 limited-slip differential is optional.

Quietness and smoothness, particularly at idle, are traits designed into the Duramax 6600. They've been enhanced in the '06 engine, thanks to a strengthened iron cylinder block and revised piston design that reduces the compression ratio. The lower compression reduces the "clattering" sound of the engine at idle, while also helping to improve overall smoothness during driving. The lower compression also helps reduce NOx emissions.

Even the engine's turbocharging system is revised for quieter, more efficient performance. A variable-geometry turbocharger with aerodynamically tuned impellers is used to enhance full-throttle response while also contributing to reducing emissions. Also, the variable-geometry turbocharger is used in cold weather to enhance heater warm-up (similar to GM medium-duty trucks).

To support the new powertrain, Express models equipped with the Duramax 6600 also include:

- Revised front floor panel and underbody heat shielding
- New interior engine cover
- High idle switch added to instrument panel (optional)
- Instrument cluster revised to reflect diesel engine functionality
- Standard 145-amp alternator
- Primary battery located underhood, with secondary battery mounted on left-hand frame rail
- Ambulance package equipped with a 50-amp Maxifuse connector at the B-pillar

A fuel-operated heater (FOH) also is available for vans equipped with the Duramax 6600 – the industry's first factory-installed application for full-size vans. It quickly provides heat to the vehicle interior in cold weather. The seamlessly integrated system is designed into the Express chassis, saving customers the time and labor of upfitting an aftermarket system.

The electronically controlled fuel-operated heater operates automatically, turning on and off within load parameters that include outside air temperature, fuel level, coolant temperature and whether the engine is running. It features a self-contained, pressurized auxiliary coolant heater (with a surge tank) that uses diesel fuel to generate up to 17,200 Btu/h (5 kw) of heating energy.

Strong Vortec power

In addition to the Duramax 6600, Chevrolet Express offers its customers a choice of four GM Vortec Generation III engines. The 195-horsepower (145 kw) Vortec 4300 4.3L V-6 with multi-port fuel injection is the base engine for light-duty G-vans in all 50 states. A central fuel injector delivers a separate flow of fuel to six individual hybrid injectors for better performance and improved emissions.

The Vortec 4800 4.8L V-8 cranks out 285 horsepower (213 kw) and is used for heavy-duty applications in the 2500 Series cargo vans.

The Vortec 5300 5.3L V-8 has the ability to provide segment-leading acceleration. Used for light-duty applications, it churns out 295 horsepower (220 kw) and 335 lb.-ft. of torque (454 Nm), and is the standard engine in all-wheel drive models.

Those seeking more power can opt for the Vortec 6000 – the segment's most powerful V-8. It delivers 345 horsepower (257 kw) and 380 lb.-ft. of torque (515 Nm).

For greater ease during heavy-duty towing and hauling applications, Express features GM's unique tow/haul mode. It reduces the frequency and improves the predictability of transmission shifts when pulling a trailer or carrying a heavy load.

Express advantages

Chevy Express continues to offer uncompromising versatility in the full-size van segment. It's available with two wheelbase lengths: regular length (135 inches / 3429 mm) and extended length (155 inches / 3937 mm). Stable handling, precise steering, superior ride motion control and balance, as well as a quiet, isolated driving experience are hallmarks of this vehicle.

Express also benefits from continual refinements to an already solid structure. The three-piece frame features fully boxed sections for superior strength and rigidity, while extended and tapered front frame rails are used for improved crashworthiness. Also, additional tubular frame cross members are used to increase torsional stiffness.

Confidence behind the wheel is enhanced with a standard four-wheel antilock disc brake system with Hydroboost. This system works with a high-volume brake master cylinder to provide increased stopping power with an easy, linear feel on the brake pedal. Dynamic rear proportioning also is used and helps apply the correct amount of pressure to the rear wheels, depending on whether the van is loaded. GM's StabiliTrak electronic stability control system is standard on passenger models.

Thoughtful details are found throughout Express – items that become important to customers who use their van as a mobile office. This includes supportive front seats, excellent interior lighting, glove-friendly door handles, convenient storage pockets, secondary power outlets and durable carpeting. Also, an industry-first 60/40-split left-hand side-hinged door provides the segment's most flexible loading capability. It is available on regular-length cargo vans and offers complete driver's side access to the second-row and/or seats or cargo compartment.

Model lineup

Express comes in both regular (135-inch / 3,429 mm) and extended (155-inch / 3,937 mm) wheelbase lengths, and can accommodate eight, 12 or 15 people. Cargo vans, available in the same wheelbase lengths, offer seating for two. The cutaways, which can be converted to various commercial, school bus and RV requirements, are available in 139-inch (3,531 mm), 159-inch (4,039 mm) and 177-inch (4,496 mm) wheelbase lengths.

The 1500 Series vans include light-duty models rated at 6,200- and 7,200-pounds (2,812- and 3,266-kg) GVW. The 2500 Series includes light-duties rated at 7,300- and 8,500-pounds (3,311- and 3,856-kg) GVW (in CNG), and heavy-duty models rated at 8,600-pounds (3,901-kg) GVW. The heavy-duty 3500 Series includes full-bodied cargo/passenger vans rated at 9,600-pounds (4,354-kg) GVW, and commercial and RV cutaway chassis, with GVW ratings of 8,600-12,300 pounds (3,901-5,579 kg).

Chevrolet Express is assembled at the GM assembly plant in Wentzville , Mo.

New for 2006

- Duramax 6600 V-8 turbo-diesel available on select Cargo Vans

Model Summary

	Engines					Transmissions	
	Vortec 4300 4.3L V-6	Vortec 4800 4.8L V-8	Vortec 5300 5.3L V-8	Vortec 6000 6.0L V-8	Duramax 6600 6.6L V-8	4-spd auto (Hydra-Matic 4L60-E)	4-spd auto (Hydra-Matic 4L80-E)
Passenger Van, Conversion Van							
G1500 reg WB	S	–	O	–	–	S	–
H1500 reg WB	–	–	S	–	–	S	–
G2500 reg WB	–	S	–	O	–	–	S
G2500 ext WB	–	S	–	O	–	–	S
G3500 reg / ext WB	–	–	–	S	–	–	S
Cargo Van							
G1500 reg WB	S	–	O	–	–	S	–
H1500 reg WB	–	–	S	–	–	S	–
G2500 reg / ext WB (7300GVW)	S	–	O	–	O	S	–
G2500 reg / ext WB (8600 GVW)	–	S	–	O	O	–	S
H2500 reg WB	–	–	S	–	–	S	–
G3500 reg / ext WB	–	–	–	S	O	–	S

Key:
Standard S
Optional O
Not available -

Specifications

Overview	
Models:	Chevy Express: full-frame G-Series 8-, 12-, 15-passenger and cargo van (8-, 12-passenger w/ H-Series), RH sliding or swing-out 60/40 doors or optional LH swing-out 60/40 doors, (G-Series available as RV & commercial cutaway)
Body style / driveline:	cargo and passenger van (RH sliding or swing-out 60/40 doors or optional LH swing-out 60/40 doors), front-engine, rear-wheel drive (AWD With H-Series)
Construction:	full frame
EPA vehicle class:	full-size van
Manufacturing location:	Wentzville, Missouri
Key competitors:	Ford Econoline, Ford E-Series, Dodge/Freightliner Sprinter

Engines

	Vortec 4300 4.3L V-6 (LU3)	**Vortec 4800 4.8L V-8 (LR4)**	**Vortec 5300 5.3L V-8 (LM7)**	**Vortec 6000 6.0L V-8 (LQ4)**	**Duramax 6600 6.6L V-8 turbo-diesel (LLY)**
Type:	4.3L V-6	4.8L V-8	5.3L V-8	6.0L V-8	6.6L V-8
Displacement (cu in / cc):	262 / 4293	294 / 4807	327 / 5328	366 / 5967	403 / 6599
Bore & stroke (in / mm):	4.00 x 3.48 /	3.78 x 3.27 /	3.78 x 3.62 /	4 x 3.62 /	4.06 x 3.90 /
	101.6 x 88	96 x 83	96 x 92	101.6 x 92	103 x 99
Block material:	cast iron	cast iron	cast iron	cast iron	cast iron
Cylinder head material:	cast iron	cast aluminum	cast aluminum	cast aluminum	cast aluminum
Valvetrain:	OHV, 2 valves per cylinder	OHV, 2 valves per cylinder	OHV, 2 valves per cylinder	OHV, 2 valves per cylinder	OHV, 4 valves per cylinder
Ignition system:	composite distributor, platinum-tip spark plugs, low-resistance spark plug wires	composite distributor, platinum-tip spark plugs, low-resistance spark plug wires	electronic spark control, composite distributor, platinum-tip spark plugs	coil near plug, platinum-tip spark plugs, low resistance spark plug wires	fast-heating glow plugs
Fuel delivery:	sequential fuel injection	sequential fuel injection	sequential fuel injection	sequential fuel injection	direct injection diesel with high-pressure common rail
Compression ratio:	9.2:1	9.5:1	9.5:1	9.4:1	16.8:1
Horsepower (hp / kw @ rpm):	195 / 145 @ 4600	285 / 213 @ 5600	295 / 220 @ 5200	345 / 257 @ 4200	250 / 186 @ 3200
Torque (lb-ft / Nm @ rpm):	260 / 353 @ 2800	295 / 400 @ 4000	335 / 454 @ 4000	380 / 515 @ 4000	460 / 636 @ 1600
Recommended unleaded fuel:	87 octane	87 octane	87 octane	87 octane	diesel
Maximum engine speed (rpm):	5600	5600	5600	5600	3450 (fuel shut-off)

	Vortec 4300 4.3L V-6 (LU3)	Vortec 4800 4.8L V-8 (LR4)	Vortec 5300 5.3L V-8 (LM7)	Vortec 6000 6.0L V-8 (LQ4)	Duramax 6600 6.6L V-8 turbo-diesel (LLY)
Emissions controls:	3-way catalytic converter, exhaust gas recirculation, positive crankcase ventilation, evaporative collection system	3-way catalytic converter, exhaust gas recirculation, positive crankcase ventilation, evaporative collection system	3-way catalytic converter, exhaust gas recirculation, positive crankcase ventilation, evaporative collection system	3-way catalytic converter, exhaust gas recirculation, positive crankcase ventilation, evaporative collection system	catalytic converter, exhaust gas recirculation
Estimated fuel economy (mpg city / hwy / combined):					
Cargo:	14 / 18 / 16	N/A	14 / 17 / 15	N / A	N/A
Passenger:	14 / 18 / 16	N/A	13 / 17 / 15	N / A	N/A
(L per 100 km)					

Transmissions

	Hydra-Matic 4L60-E	Hydra-Matic 4L80-E
Type:	4-speed electronic automatic with overdrive and torque converter	4-speed heavy-duty electronic automatic with overdrive and torque converter
Gear ratios (:1):		
First:	3.06	2.48
Second:	1.63	1.48
Third:	1:00	1:00
Fourth:	0.70	0.75
Reverse:	2.29	2.08
Final drive ratio:	3.42:1 std with 4.3L, 5.3L on 1500 Series	
	3.73:1 std with 4.3L on 2500 Series; opt with 5.3L on 1500 Series and std with 5.3L on 2500 Series; std with 4.8L on 2500 Series and some 6.0L models	
	4.10:1 opt with 4.8L on 2500 Series and std on 3500 Series; std or opt with 6.0L, depending on the model	

Chassis/Suspension

	G1500	H1500	G2500 (135-, 155-in WB)	G3500 (135-, 155-in WB)
Front:	independent short/long arm (SLA) coil springs, 33-mm stabilizer bar	independent short/long arm (SLA) torsion bars, 33-mm stabilizer bar	independent short/long arm (SLA) coil springs, 35-mm stabilizer bar	independent short/long arm (SLA) coil springs, 35-mm stabilizer bar
Rear:	2-stage, semi-elliptic multileaf springs and semifloating rear axle	2-stage, semi-elliptic multileaf springs and semifloating rear axle	2-stage, semi-elliptic multileaf springs and semifloating rear axle (depending on the GVW)	2-stage, semi-elliptic multileaf springs and semifloating rear axle
Steering type (all models):	power, rack and pinion	power, rack and pinion	integral power	integral power
Steering ratio:	17.2:1	17.2:1	17.2:1	17.2:1
Steering wheel turns, lock-to-lock:	3	3	3	3
Turning circle, curb-to-curb (ft / m):				
135-in WB:	43.4 / 13.2	43.4 / 13.2	49.2 / 15	49.2 / 15
155-in WB:	–	-	54.5 / 16.6	54.5 / 16.6

Brakes

Type (all models): Hydroboost 4-wheel disc, 4-wheel ABS with Dynamic Rear Proportioning

	6,200 - 7,300 lb GVW	7300 lb GVW	8,600 lb GVW	9,600 lb GVW	12,000 - 12,300 lb GVW
Rotor diameter x thick (in / mm):					
Front:	12 x 1.14 / 305 x 29	12 x 1.14 305 x 29	12.8 x 1.5 325 x 38	12.8 x 1.5 / 325 x 38	12.8 x 1.5 325 x 38
Rear:	13 x 1.18 / 330 x 30	13 x 1.14 / 330 x 29	13 x 1.14 / 330 x 29	13 x 1.14 / 330 x 29	12.8 x 1.18 / 325 x 30
Total swept area (sq in / sq cm):					
Front:	214 / 1378	214 / 1378	246 / 1584	245 / 1584	245 / 1584
Rear:	237 / 1526	237 / 1526	237 / 1526	237 / 1526	235 / 1517

Wheels/Tires

	G1500	G2500 (135-, 155-in WB)	G3500 (135-, 155-in WB)
Wheel size & type:	16-inch steel	16-inch steel	16-inch steel
Tires:	P235/75R16 all-season steel-belted radials	LT225/75R16E* all-season steel-belted radials	LT245/75R16E all-season steel-belted radials

* Standard on all G2500, except cargo van with 7,300-lb GVWR, which has a standard LT245/75R16E

Dimensions

Exterior	G1500 Regular	G2500 Regular	G3500 Regular	G3500 Extended
Wheelbase (in / mm):	135 / 3429	135 / 3429	135 / 3429	155 / 3937
Overall length (in / mm):	224 / 5691	224 / 5691	224 / 5691	244 / 6199
Overall width (in / mm):	79.4 / 2018	79.4 / 2018	79.4 / 2018	79.4 / 2018
Overall height (in / mm):	81.6 / 2072	81.6 / 2072	81.6 / 2072	82 / 2084
Track (in / mm):				
Front:	67.8 / 1721	67.8 / 1721	67.8 / 1721	67.8 / 1721
Rear:	67.8 / 1721	67.8 / 1721	67.8 / 1721	67.8 / 1721
Min. ground clearance (in / mm):				
Front:	8 / 202	8.2 / 207	8.2 / 207	8.1 / 207
Rear:	7.4 / 188	7.1 / 180	7.1 / 180	7.7 / 195
Ground to top of rear load floor (in / mm):				
Passenger:	25.5 / 648	27.2 / 690	27.8 / 707	27.8 / 707
Cargo:	22.8 / 580	25.1 / 637	27.8 / 707	27.8 / 707
Step-in height (in / mm):				
Passenger, front door:	17.3 / 439	19 / 483	19.6 / 498	19.6 / 498
Passenger, side door:	15.5 / 394	18 / 457	19.5 / 495	19.6 / 498
Cargo, front door:	16.9 / 428	18.8 / 478	20.5 / 521	20.6 / 523
Cargo, side door:	15.5 / 394	18 / 457	19.5 / 495	19.6 / 498
Curb weight (lb / kg):				
Cargo:	4845 / 2198	5017 / 2276	5427 / 2462	5625 / 2552
Passenger:	5258 / 2385	5877 / 2666	6015 / 2728	6333 / 2873
Interior	**G1500 Regular**	**G2500 Regular**	**G3500 Regular**	**G3500 Extended**
Seating capacity (std / opt):				
Passenger van:	8	12 / 8	12 / 8	12 / 15
Cargo van:	2 / 1	2 / 1	2 / 1	2 / 1
Headroom (in / mm):				
Front:	40.2 / 1022	40.2 / 1022	40.2 / 1022	40.2 / 1022
Middle (first row):	38.5 / 979	38.5 / 979	38.5 / 979	38.5 / 979
Middle (second row):	38.1 / 968	38.1 / 968	38.1 / 968	38.1 / 968
Rear (12-pass):	-	37.7 / 957	37.7 / 957	37.7 / 957
Rear (15-pass):	-	-	-	37.7 / 957
Leg room (in / mm):				
Front:	41.3 / 1048	41.3 / 1048	41.3 / 1048	41.3 / 1048
Middle (first row):	34.8 / 883	34.8 / 883	34.8 / 883	34.8 / 883
Middle (second row):	37.6 / 954	37.6 / 954	37.6 / 954	37.6 / 954
Rear (12-pass):	-	39.8 / 1010	39.8 / 1010	39.8 / 1010
Rear (15-pass):	-	-	-	36.4 / 925
Shoulder room (in / mm):				
Front:	68.8 / 1748	68.8 / 1748	68.8 / 1748	68.8 / 1748
Middle (first row):	68.9 / 1750	68.9 / 1750	68.9 / 1750	68.9 / 1750
Middle (second row):	63.5 / 1612	63.5 / 1612	63.5 / 1612	63.5 / 1612
Rear (12-pass):	-	68.3 / 1734	68.3 / 1734	68.3 / 1734
Rear (15-pass):	-	-	-	62.7 / 1593
Hip room (in / mm):				
Front:	65.5 / 1664	65.5 / 1664	65.5 / 1664	65.5 / 1664
Middle (first row):	66 / 1675	66 / 1675	66 / 1675	66 / 1675
Middle (second row):	64.4 / 1635	64.4 / 1635	64.4 / 1635	64.4 / 1635
Rear (12-pass):	-	59.6 / 1515	59.6 / 1515	59.6 / 1515
Rear (15-pass):	-	-	-	63.2 / 1605

	G1500 Regular	G2500 Regular	G3500 Regular	G3500 Extended
Cargo volume (cu ft / L):				
Behind front seat:	204 / 5776	204 / 5776	204 / 5776	237.3 / 6719
Width between wheelhousings (in / mm):				
Cargo:	50.5 / 1282	50.5 / 1282	50.5 / 1282	50.5 / 1282
Passenger:	50.5 / 1282	50.5 / 1282	50.5 / 1282	50.5 / 1282
Load floor length (in / mm):				
Behind 1st row seat, Cargo:	127.8 / 3246	127.8 / 3246	127.8 / 3246	127.8 / 3246
Behind 1st row seat, Passenger:	126.3 / 3208	126.3 / 3208	126.3 / 3208	146.3 / 3716
Behind 2nd row, Passenger:	89.4 / 2272	89.4 / 2272	89.4 / 2272	109.4 / 2778
Behind 3rd row, Passenger:	57. 4 / 1457	57.4 / 1457	57.4 / 1457	77.5 / 1969
Behind 4th row, Passenger:	-	-	-	45.6 / 1159
Behind 5th row, Passenger:	-	-	-	12 / 306
Interior height (in / mm):				
Cargo:	51.9 / 1318	51.9 / 1318	51.9 / 1318	51.9 / 1318
Passenger:	51.9 / 1318	51.9 / 1318	51.9 / 1318	51.9 / 1318

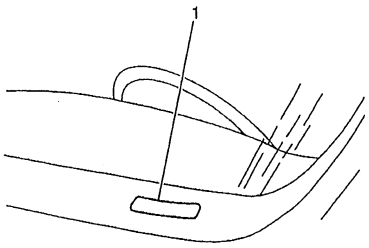
Capacities

	G1500 Regular	G2500 Regular	G3500 Regular	G3500 Extended
GVWR (lb / kg):				
Passenger van (standard):	7200 / 3266	8600 / 3901	9600 / 4354	9600 / 4354
Cargo van (standard):	6200 / 2812	7300 / 3311	9600 / 4354	9600 / 4354
Payload, base (lb / kg):				
Cargo van:	1355 / 615	2283 / 1036	4173 / 1893	3975 / 1803
Passenger van:	1942 / 881	2723 / 1235	3585 / 1626	3267 / 1482
Trailer towing maximum (lb / kg):				
Passenger:	6600 / 2905	8000 / 3628	10000 / 4538	10000 / 4538
Cargo:	6100 / 2767	8600 / 3901	10000 / 4538	10000 / 4538
Fuel tank (gal / L):	31 / 117	31 / 117	31 / 117	31 / 117
Maximum tongue weight:	Trailer tongue weight should be 10-15 percent of the total loaded trailer weight, up to 1,000 pounds. Weight-carrying hitch limit on 4,000-lb (1,814-kg) trailer is 400-pound (181-kg) tongue weight. Weight-distributing hitch and sway control required for over 4,000-pound (1,814-kg) trailer weight.			

	Vortec 4300 4.3L V-6 (LU3)	Vortec 4800 4.8L V-8 (LR4)	Vortec 6000 6.0L V-8 (LQ4)
Engine oil (qt / L):	4.5 / 4.2	6 / 5.6	6 / 5.6
Cooling system (qt / L):	12.6 / 11.9	13.4 / 12.7	14.4 / 13.6

Vehicle Identification

Vehicle Identification Number (VIN)



The vehicle identification number (VIN) plate is the legal identifier of the vehicle. The VIN plate is located on the upper LH corner of the Instrument Panel and can be seen through the windshield from the outside of the vehicle:

Position	Definition	Character	Description
1	Country of Origin	1	U.S.A.
2	Manufacturer	G	General Motors
3	Make	C,T	C - Chevrolet T - GMC Truck
4	GVWR/Brake System	B C D E F G H J K	B - 3001 - 4000/Hydraulic C - 4001 - 5000/Hydraulic D - 5001 - 6000/Hydraulic E - 6001 - 7000/Hydraulic F - 7001 - 8000/Hydraulic G - 8001 - 9000/Hydraulic H - 9001 - 10000/Hydraulic J - 10001 - 14000/Hydraulic K - 14001 - 16000/Hydraulic
5	Truck Line/Chassis Type	G	G-Van 4X2 Chevrolet Express GMC Savana
6	Series	1 2 3 6 7 8	1/2 Ton Nominal 3/4 Ton Nominal 1 Ton Nominal 1/2 Ton Luxury 3/4 Ton Luxury 1 Ton Luxury
7	Body Type	1 5 9	Hi-Cube or Cutaway Van Van Extended Cab, Extended Van
8	Engine Type	V T U X W	4.8L V8 MFI IORN (LR4) 5.3L V8 MFI IORN (LQ4) 6.0L V8 MFI IORN (LM7) 4.3L V6 MFI IORN (LU3) 6.6L 90° V8 (LLY)
9	Check Digit	--	--
10	Model Year	6	2006

Position	Definition	Character	Description
11	Plant Location	1 X	Wentzville, MO Experimental Engineering Manufacturing Services
12-17	Plant Sequence Number	--	--

VIN Derivative

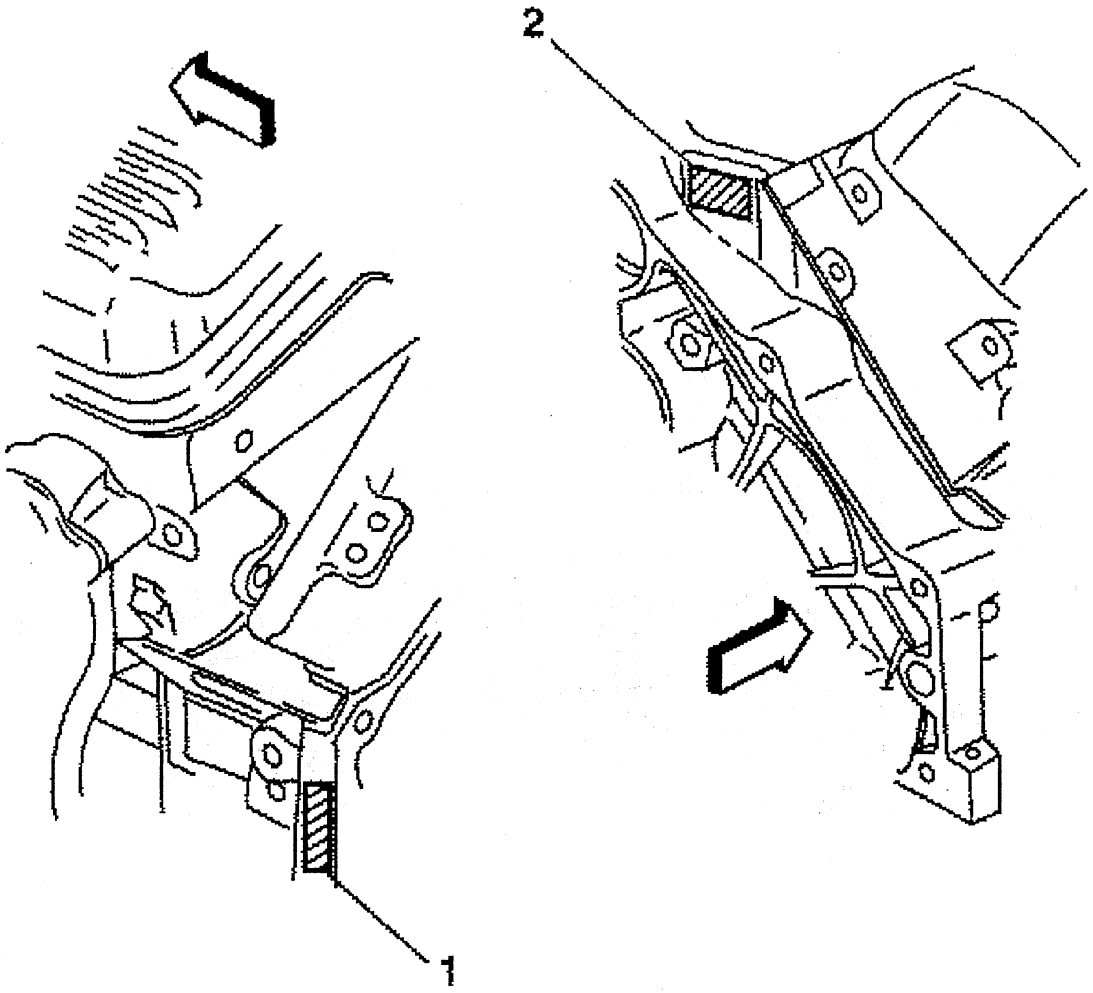
All engines and transmissions are stamped or laser etched with a partial vehicle identification number (VIN), which was derived from the complete VIN. A VIN derivative contains the following nine positions:

Position	Definition	Character	Description
1	GM Division Identifier	G	General Motors
2	Model Year	6	2006
3	Assembly Plant	1	Wentzville MO
4-9	Plant Sequence Number	100,001	--
4-9	Plant Sequence Number	900,001	Pre-Assigned

A VIN derivative can be used to determine if a vehicle contains the original engine or transmission, by matching the VIN derivative positions to their accompanying positions in the complete VIN:

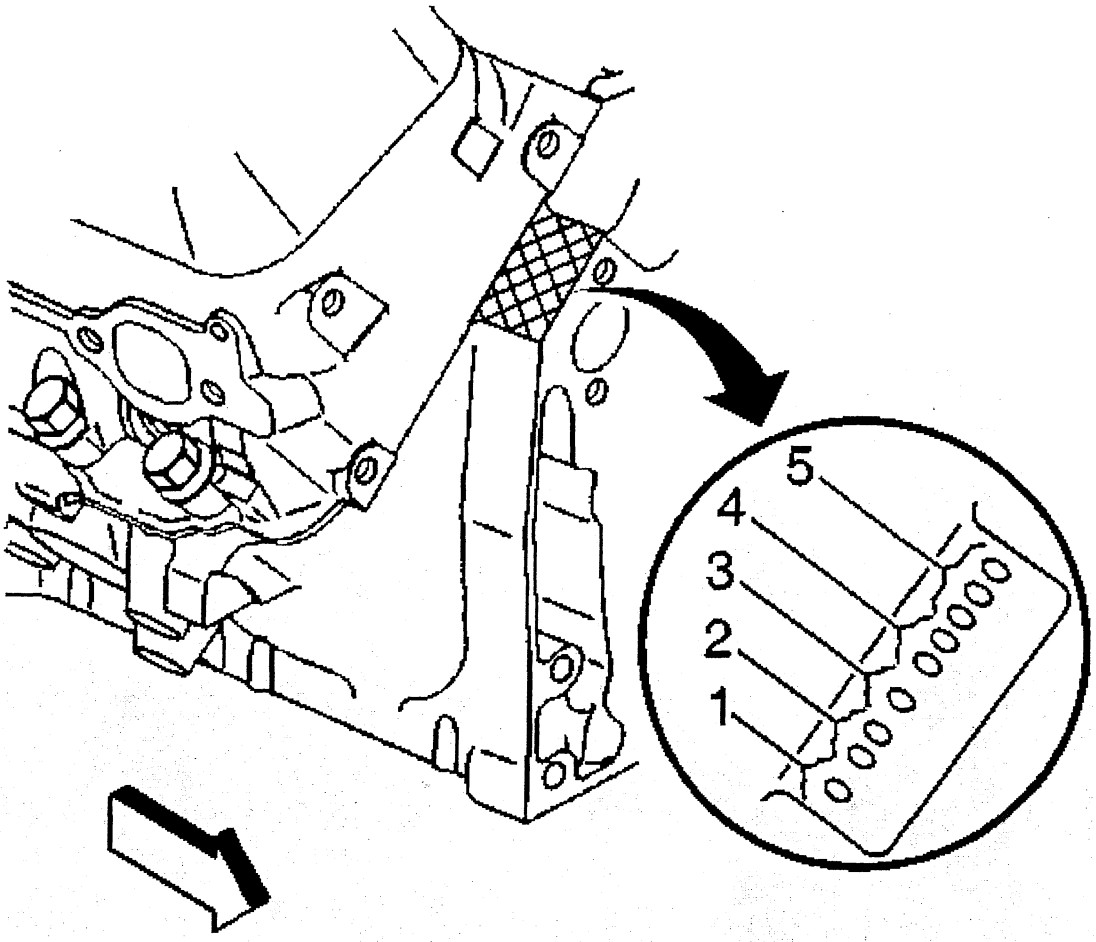
VIN Derivative Position	Equivalent VIN Position
1	2
2	10
3	11
4-5	12-17

Engine ID and VIN Derivative Location 4.3L



The Vehicle Identification Number (VIN) Derivative is located on the left side rear of the engine block (1) or on the right side rear (2) and typically is a 9 digit number stamped or laser etched onto the engine at the vehicle assembly plant.

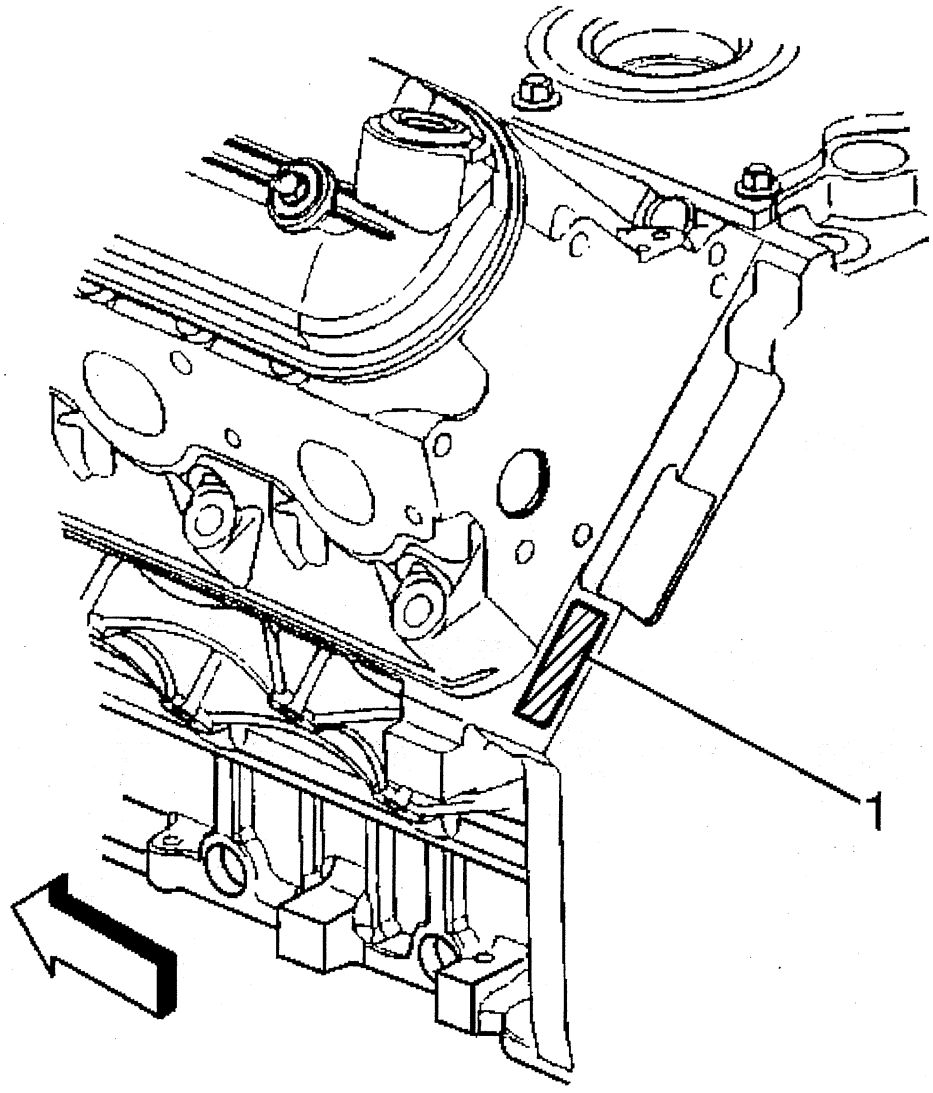
- The first digit identifies the division.
- The second digit identifies the model year.
- The third digit identifies the assembly plant.
- The fourth through ninth digits are the last six digits of the VIN.



Engines built at the Romulus engine plant have the engine identification number located at the right front top of the engine block.

- The first digit (1) is the source code.
- The second and third digits (2) are the month of build.
- The fourth digit (3) is the hour of the build.
- The fifth and sixth digits (4) are the date of build.
- The seventh, eighth, and ninth digits (5) are the broadcast code.

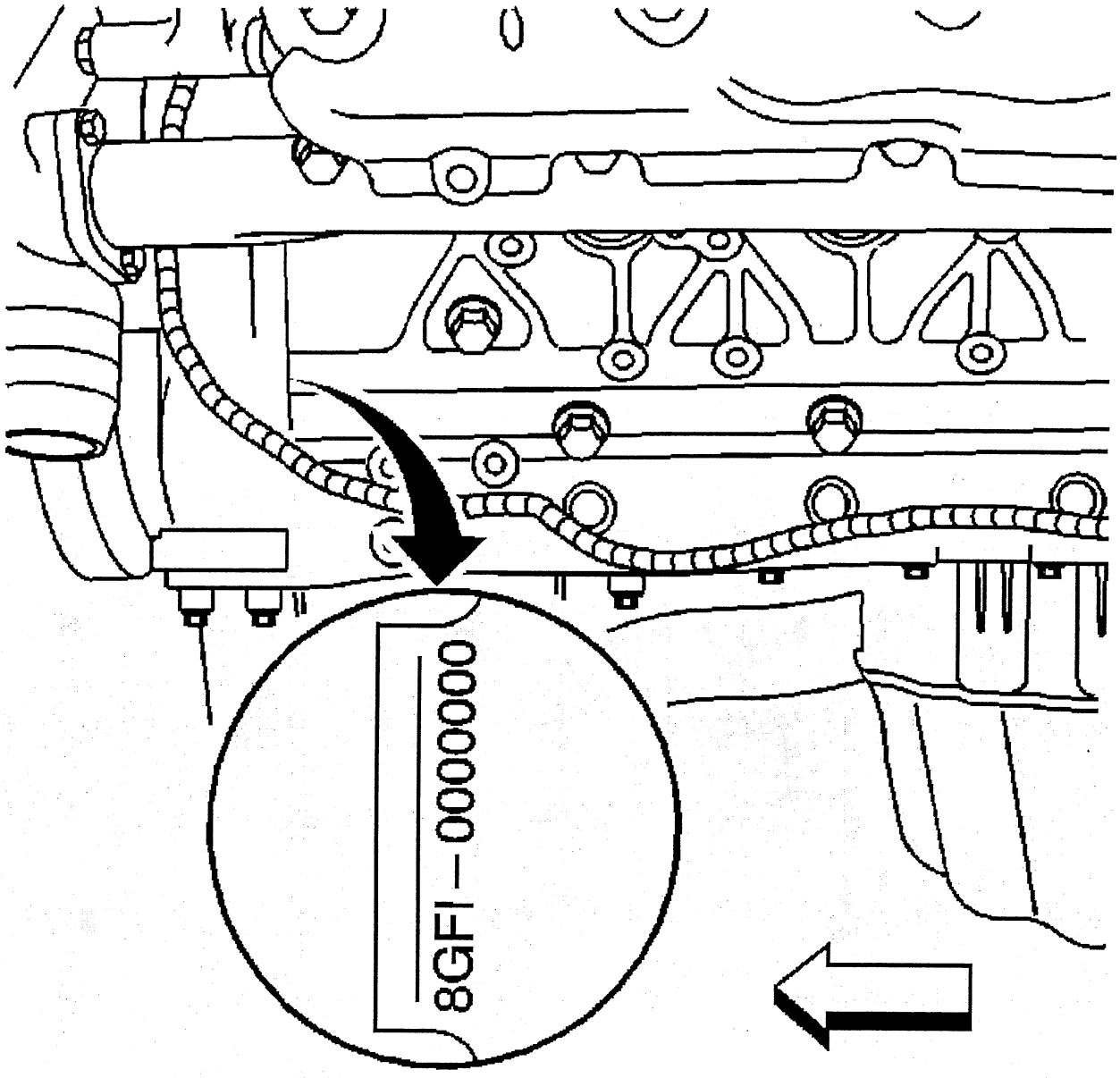
5.3L and 6.0L V-8 Engines



The vehicle identification number (VIN) is located on the left side rear of the engine block (1) and is typically a nine digit number stamped or laser-etched onto the engine at the vehicle assembly plant.

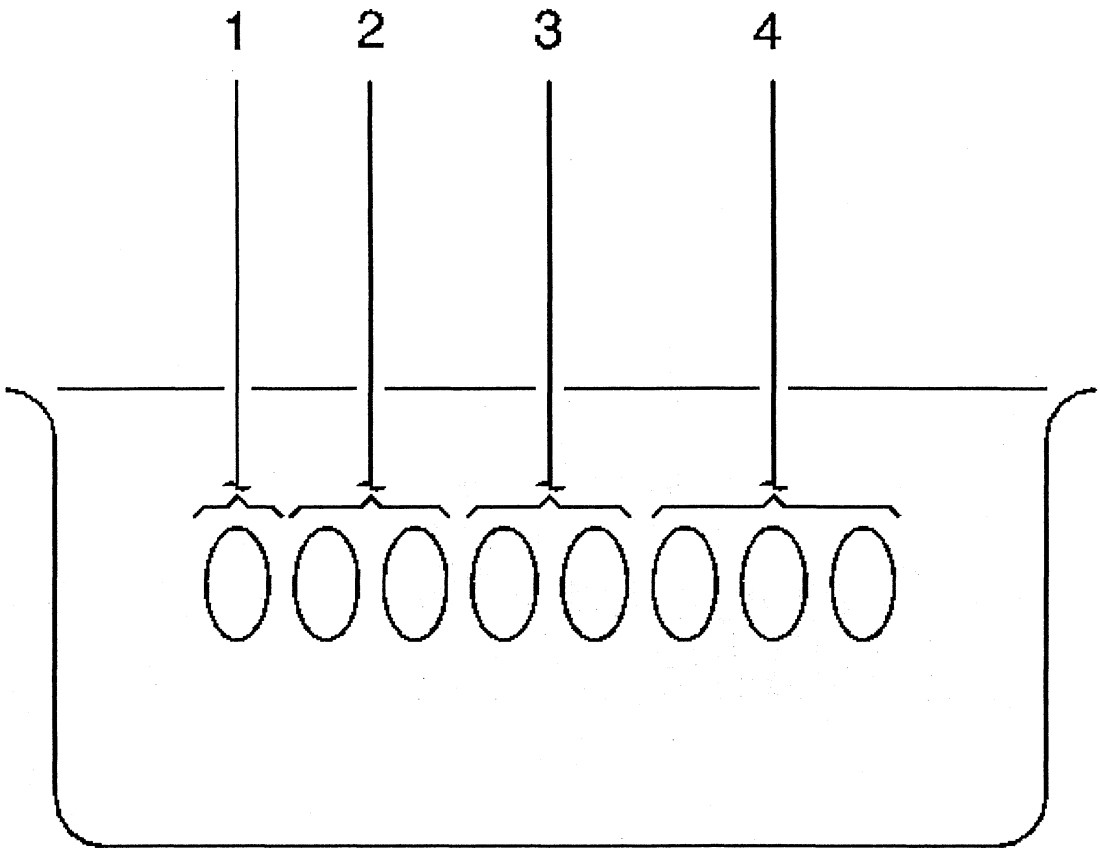
- The first digit identifies the division.
- The second digit identifies the model year.
- The third digit identifies the assembly plant.
- The fourth through ninth digits are the last six digits of the VIN.

6.6L V-8 Diesel Engine



The engine identification tag is located on the left side of the block. It is on the front edge of the block.

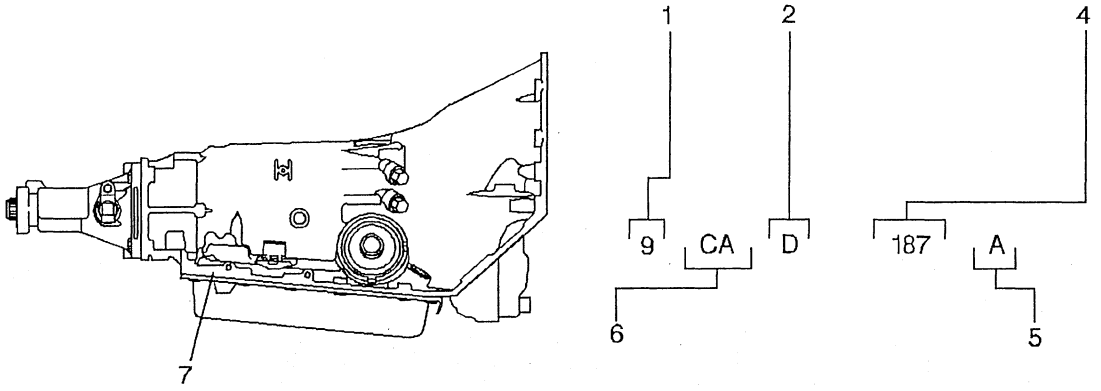
Engine ID Legend

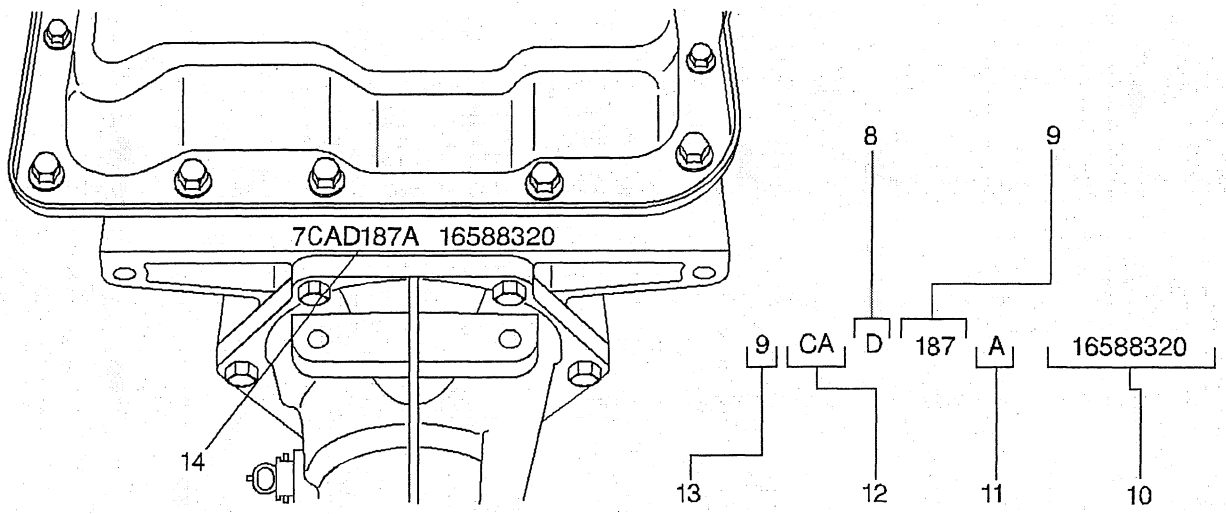


1. Source Code
2. Month of Build
3. Date of Build
4. Broadcast Code

Transmission ID and VIN Derivative Location

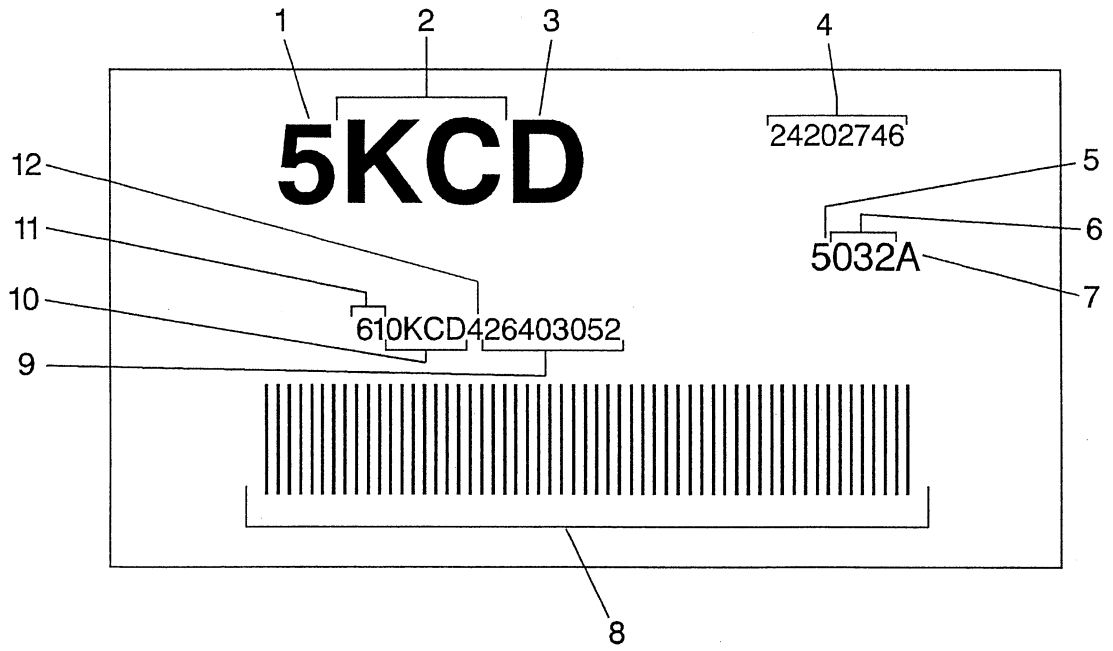
4L60-E Transmission ID Location





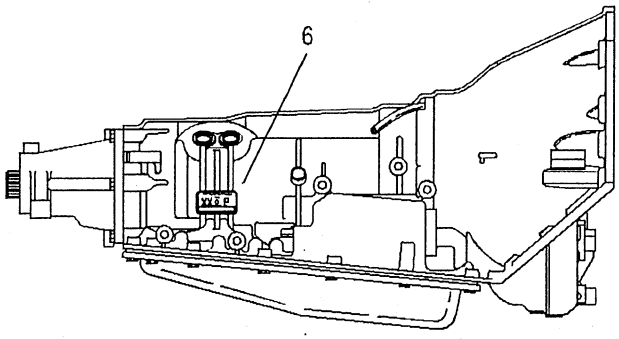
(1) Model Year
(2) Hydra-Matic 4L60-E
(4) Julian Date (or Day of the Year)
(5) Shift Built (A, B, J = First Shift; C, H, W = Second Shift)
(6) Model
(7) Transmission ID Location
(8) Hydra-Matic 4L60-E
(9) Julian Date (or Day of the Year)
(10) Serial No.
(11) Shift Built (A, B, J = First Shift; C, H, W = Second Shift)
(12) Model
(13) Model Year
(14) Transmission ID Location

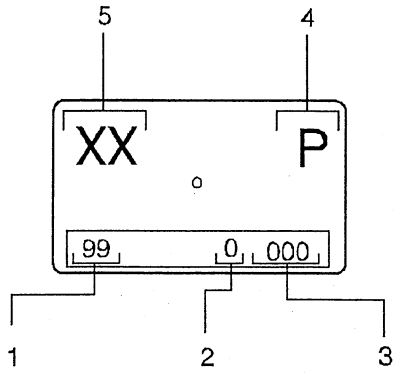
Bar Code Label Contents(c)



(1) 5 = 2005
(2) Model
(3) Hydra-Matic 4L60-E
(4) Transmission Asm. as Shipped Number
(5) 5 = Model Year
(6) Julian Date or Day of the Year
(7) Letter After Julian Date Identifies the Plant Shift Build, See Shift Build
(8) Bar Code
(9) Serial Number
(10) Broadcast Code
(11) Transmission ID
(12) Build Location Y = Toledo, OH, R = Romulus, MI, 4 = Ramos Arizpe, Mexico

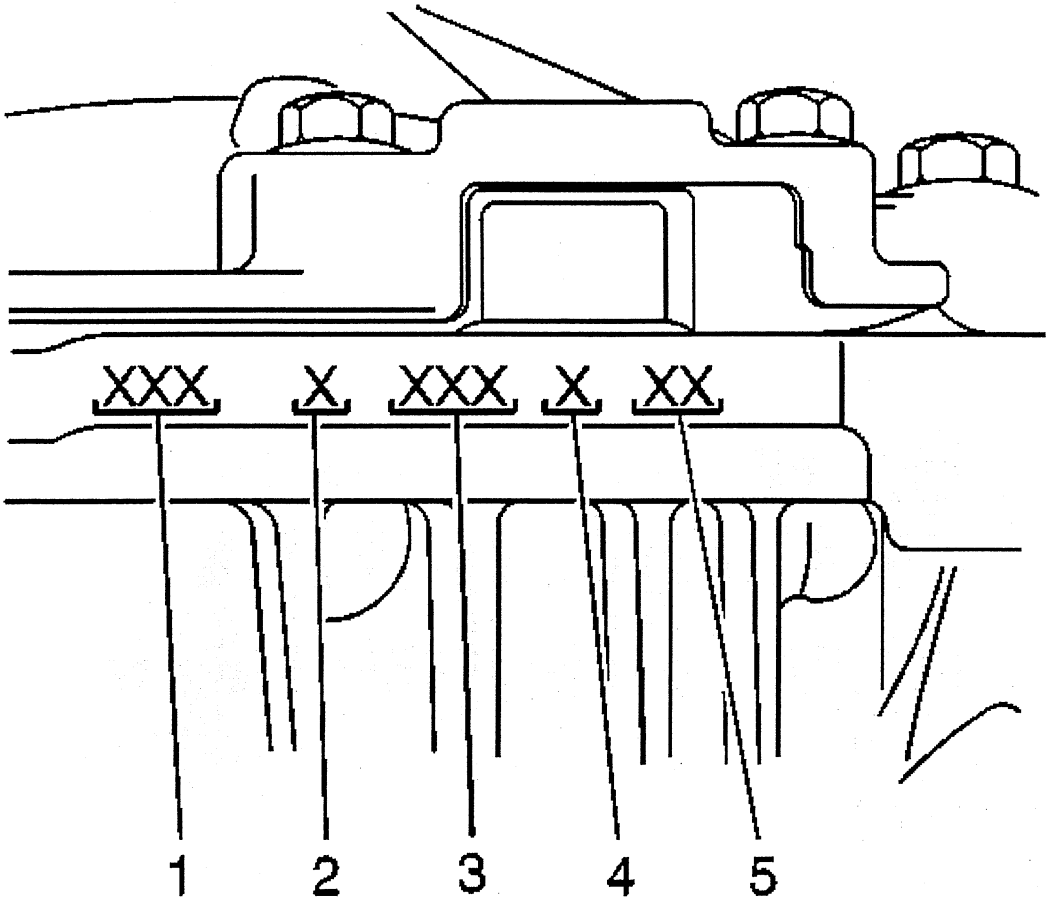
4L80-E Transmission ID Location





1. Calendar Year
2. Julian Date of the Year
3. Shift and Line Number
4. Plant
5. Model
6. Location on Transmission

Axle Identification – Front

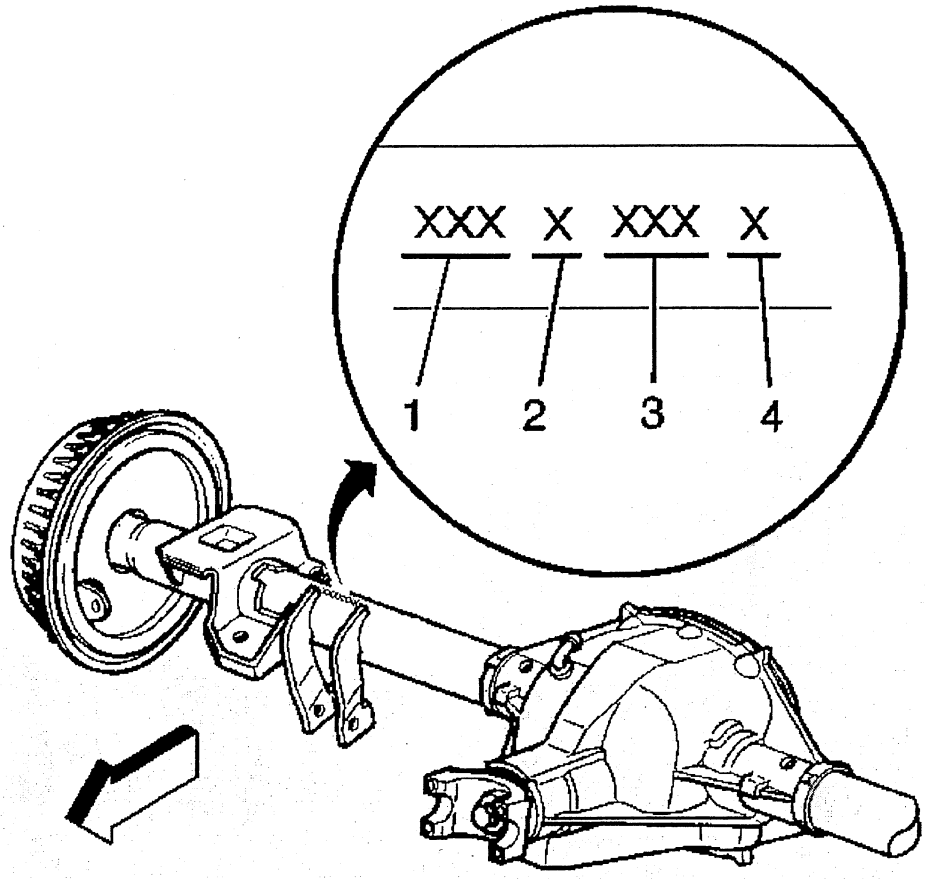


Front axle identification information is stamped on the top of the differential carrier assembly. The information includes the following:

- Broadcast code (1)
- Supplier code (2)
- Date built (3)
- Shift built (4) (Optional for 8.25 inch and 9.25 inch axles)
- Hour built (5)

In order to verify reports made on the differential case assembly, include full code letters and build date numbers.

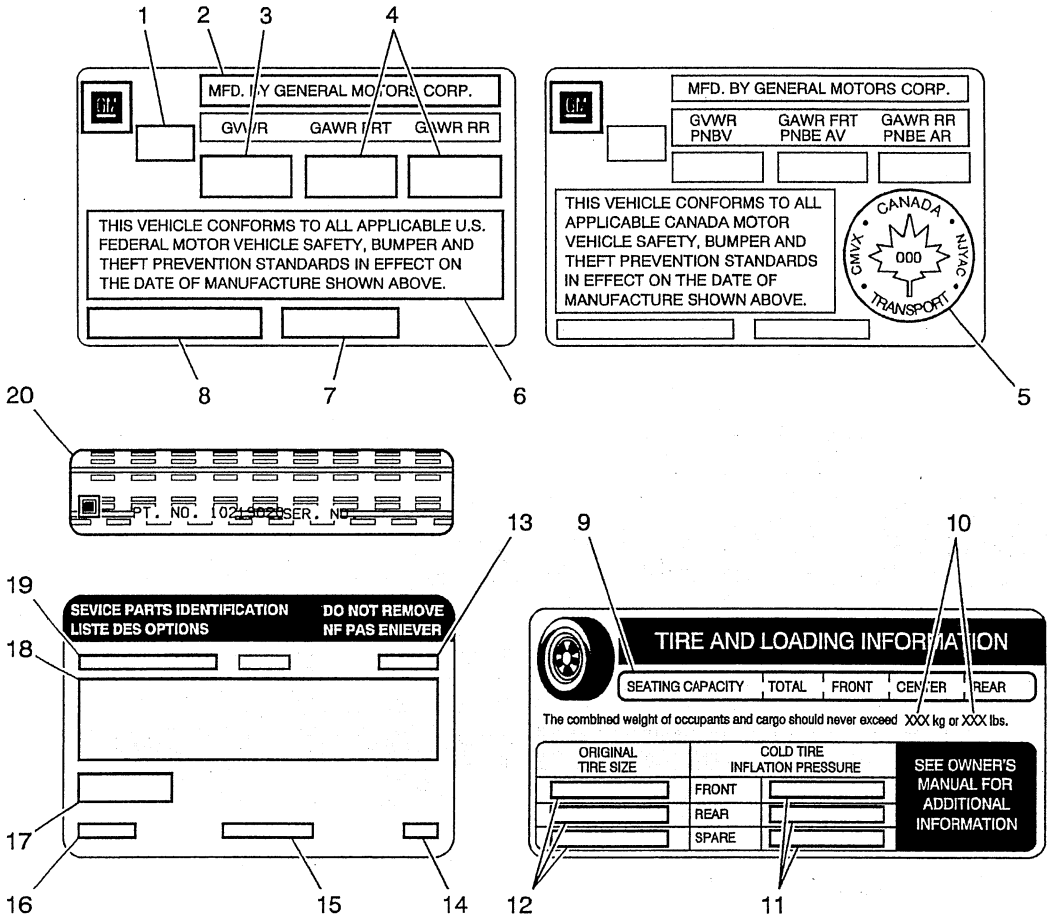
Axle Identification – Rear



(1) The first three digits indicate the rear axle ratio.
(2) The next digit indicates the axle assembly build source code (D) Detroit (C) Buffalo and (K) Canada.
(3) The next three digits indicate the day built, displayed in Julian Date form.
(4) The last digit indicates the shift (1) First and (2) Second.

All rear axles are identified by a broadcast code on the right axle tube near the carrier. The rear axle identification and manufacturer's codes must be known before attempting to adjust or to repair axle shafts or the rear axle case assembly. Rear axle ratio, differential type, manufacturer, and build date information is stamped on the right axle tube on the forward side.

Label - Vehicle Certification, Tire Place Card, Anti-Theft and Service Parts ID



Callout	Description
Vehicle Certification Label	The vehicle certification label is located on the driver door and displays the following assessments: Gross Vehicle Weight Rating (GVWR) Gross Axle Weight Rating (GAWR), front and rear The gross vehicle weight (GVW) is the weight of the vehicle and everything it carries. The GVW must not exceed the GVWR. Include the following items when figuring the GVW: The base vehicle weight (factory weight) The weight of all vehicle accessories The weight of the driver and the passengers The weight of the cargo
1	Name of Manufacturer
2	Gross Vehicle Weight Rating
3	Gross Axle Weight Rating (Front, Rear)
4	Canadian Safety Mark (w/RPO Z49)
5	Certification Statement
6	Vehicle Class Type (Pass Car, etc.)
7	Vehicle Identification Number
8	Date of Manufacture (Mo/Yr)

Callout	Description
Tire Placard	
The tire placard label is located on the driver door and displays the following assessments:	
9	Specified Occupant Seating Positions
10	Maximum Vehicle Capacity Weight
11	Original Equipment Tires Size
12	Tire Pressure, Front, Rear, and Spare (Cold)
Service Parts ID Label	
The vehicle service parts identification label is located in the rear compartment under the spare tire cover. The label is use to help identify the vehicle original parts and options.	
13	Vehicle Identification Number
14	Engineering Model Number (Vehicle Division, Line and Body Style)
15	Interior Trim Level and Decor
16	Exterior (Paint Color) WA Number
17	Paint Technology
18	Special Order Paint Colors and Numbers
19	Vehicle Option Content
Anti-Theft Label	
20	The Federal law requires that General Motors label certain body parts on this vehicle with the VIN. The purpose of the law is to reduce the number of motor vehicle thefts by helping in the tracing and recovery of parts from stolen vehicles. Labels are permanently affixed to an interior surface of the part. The label on the replacement part contains the letter R, the manufacturer's logo, and the DOT symbol. The anti-theft label must be covered before any painting, and rustproofing procedures, and uncovered after the procedures. Failure to follow the precautionary steps may result in liability for violation of the Federal Vehicle Theft Prevention Standard and possible suspicion to the owner that the part was stolen.

RPO Code List

The production/process codes provide the description of the Regular Production Options (RPOs) used on the vehicle. The RPO list is printed on the Service Parts Identification Label. The following is a list of the RPO abbreviations and the description of each:

RPO	Description
AAC	Parts Package Shipped Loose
AG1	Adjuster Front Seat Power, Multi-Directional, Driver
AG2	Power Seat - Adjuster - 6-Way - Passenger
AJ1	Windows Deep Tint, All Except W/S and Door
AJ3	Restraint System Seat, Inflatable, Driver
AK5	Restraint System Seat, Inflatable, Driver
AR7	Seat Front Bucket, Standard
ASF	Restraint - Roof Side, LH and RH, Inflatable
AXP	Vin Ident - Position, Multi-Purpose Vehicle
AXQ	Vin Ident - Position, Bus
AS5	Seat Front Bucket, Deluxe
AU0	Lock Control, Entry Remote Entry
AU3	Lock Control Side Door, Electric
A07	Window Body
A08	Window Body, Right Side
A12	Window RR STA Back DR
A13	Window Side Door STA, RR
A17	Window Side Body Left Side, Swing Out
A18	Window Rear Door, Swing Out
A19	Window Side Door Rear, Swing Out
A31	Window Power Operated, Side
BAG	Parts Package Export
BA0	Ornamentation Exterior, Door, Nameplate
BA3	Compartment Stowage, I/P Lower Extension Deluxe
BG5	Covering, Floor - Delete
BNC	Parts Package Body Mount Cushions
B3D	Equipment School Bus
B30	Floor Covering
B31	Covering Floor Vinyl, Front, Full Width
B32	Covering Front Floor Mats, AUX
B33	Covering Rear Floor Mats, AUX
B38	Covering Floor Vinyl, Front and Rear, Full Width
B4L	Label Price Reference, Geographic Chart
B46	Trim Equipment, Special Order
C36	Heater Auxiliary
C42	HVAC System Heater, Outside Air, Deluxe
C49	Defogger RR Window, Electric
C5Z	GVW Rating 7200 lbs
C6A	GVW Rating 7300 lbs
C6P	GVW Rating 8600 lbs
C6Y	GVW Rating 9600 lbs
C60	HVAC System Air Conditioner Front, Man Controls
C69	HVAC System RR Air Conditioner
C7A	GVW Rating 10,000 lbs
C7F	GVW Rating 14,050 lbs
C7L	GVW Rating 12,000 lbs
C7N	GVW Rating 12,300 lbs

RPO	Description
C99	Switch, Inflatable Restraint, I/P Module Manual Suppression
DE2	Mirror O/S LH and RH, Manual Control, Folding, Color
DE5	Mirror O/S LH and RH, Remote Control, Electric, Heated Folding, Color
DE7	Mirror O/S LH and RH, Remote Control, Electric, Heated, Light Sensitive, Manual Folding, Turn Signal Indicator, Color
DF2	Mirror O/S Wide Load Retractable, Stainless Steel
DHC	Mirror O/S - LH and RH, Manual, Control, AUX WFOV, Color
DH6	Mirror I/S FRT Van - LH and RH, Sunshade, Illum
DT4	Ashtray Cigarette Lighter
D28	Mirror O/S - Delete
D31	Mirror I/S R/V Tilt (Dup with D36)
ENC	HVAC Provisions Auxiliary Heater Plumbing and Wiring
EVA	Test DVT, EVAP Requirement
EXP	Export
E24	Door Side Rear, Hinged
E26	Door Side Rear, Left Hinged
FE9	Certification - Emission Federal
FLT	Sales Processing - Option
GAM	Vehicle - Government (G.S.A. Sales)
GT4	Axle Rear 3.73 Ratio (DUP with 5X1)
GT5	4.10 Rear Axle Ratio (DUP with GT8)
GU6	3.42 Rear Axle Ratio
G80	Axle Positraction Limited Slip
JH5	Brake Hydraulic Power, 4-Wheel Disc, 7,200 lbs
JL4	Control - Active Brake
KC4	Heavy Duty Engine Oil Cooling
KD1	Cooling System Trans, Oil
KD9	Generator - 145 AMP, Dual
KG3	Generator - 145 AMP
KL5	Modification Engine, Natural Gas
KUP	Throttle Control - Electronic
KV1	Inverter - Power Port, 110 volt
K05	Heater Engine - Block
K08	Heater - Auxiliary, Fuel Fired
K34	Cruise Control Automatic, Electronic
K50	Fuel Fitting, Line Take-off
K68	Generator - 105 AMP
LMF	Engine - Flexible Fuel, (Gas/Alc), 8 Cyl, 5.3L, SFI, V8, OHV, Iron, GM
LMM	Engine - Diesel, 8 Cyl, 6.6L, DPI, V8, Duramax
LU3	Engine - Gas, 6 cyl, 4.3L, MFI, V6, 90 Deg
LY2	Engine - Gas, 8 Cyl, 4.8L, SFI, Iron, GM
LY6	Engine - Gas, 8 Cyl, 6.0L, SFI, Iron, GM
MN8	Transmission - Auto 4 Speed, HMD, 4L80-E, Heavy Duty
MTF	Provisions - Fire Extinguisher Mounting
MT1	Transmission - 4 Speed Auto HMD, 4L80-E
M30	Transmission - Auto 4 Speed, 4L60-E, Electronic
NA1	Emission System GVW Above 8,500 lb
NA4	Emission System GVW Above 8,500 lb
NB8	Emission Override - California System
NC1	Emission System California, LEV
NC7	Emission Override - Federal System
NC8	Emission System California, ULEV

RPO	Description
NE1	Certification - Emission, Geographically Restricted Registration for Vehicles Up to 14,000 lbs GVW (Use 2003 MDL YR)
NE7	Fuel Tank 208L, 55 Gal
NF4	Emission System Clean Fuel Fleet
NF9	Emission System, General Unleaded
NP5	Steering Wheel Leather Wrapped
NT8	Emission System - Federal, Tier 2 A
NT9	Emission System - Federal, Tier 2 Phase-out
NU1	Emission System - California Level 2
NU2	Emission System - California, ULEV2
NU4	Emission System California - Level 2 Plus
N12	Exhaust System - Rear Exit
N15	Flexible Fuel - Ethanol
N33	Steering Column Tilt Type
PF4	Wheel 16 x 7, Aluminum
PF9	Wheel 16 x 7, Aluminum Cast
PNC	Panel Trim, Front Doors and Side Rear Door and Rear Doors
PNF	Panel Trim, Side Rear Door and Rear Doors - Delete
PRP	Sales Package, Commercial Tradesman
PY2	Wheel 16 x 6.5, Chrome Appearance
P03	Cover, Wheel - VAR 3
Q4B	GVM Rating 6,200 lbs
R04	Wheel Single Rear
R05	Axle - Dual Rear
R25	Appearance Package - Exterior, Chrome Grille and Painted Upper
R26	Appearance Package - Exterior, Chrome Grille and Front Bumper
R4A	Tire Brand Front Goodyear
S2M	Direct Sales IBC
S4A	Tire Brand Rear Goodyear
TR9	Lamp Group
T62	Lamp System Daytime Running - Delete
T79	Lamp - Fog, RR
UA1	Battery, High Capacity, Wet
UC2	Speedometer Inst, Kilometer and Miles, Kilometer Odometer, Positive Bias
UD4	Alarm - Vehicle Speed, 120 K/H
UE1	Communication System Vehicle, GPS 1
UF2	Lamp Cargo
UF3	Switch - High Idle
UJ1	Indicator System, Brake Warning
UJ6	Indicator - Low Tire Press
UK6	Radio Control Rear Seat and Earphone Jacks
UL5	Radio - Delete
UL8	Frequencies, Saudi Arabian
UM7	Radio - AM/FM Stereo, Seek/Scan, Clock, ETR
US8	Radio - AM/FM Stereo, Seek/Scan, CD, Auto Tone, Clock, ETR, MP3, RDS
US9	Radio - AM/FM Stereo, Seek/Scan, RDS, Multiple Compact Disc, Auto Tone Control, Clock, ETR, MP3
UY7	Wiring Harness Truck Trailer, HD
U05	Horn Dual
U1C	Radio Am/FM Stereo, Seek/Scan, CD, Clock, ETR
U19	Speedometer Inst, Kilo and Miles, Kilo Odometer
U73	Antenna Fixed, Radio

RPO	Description
U74	Antenna Radio - Delete
VBX	Language Label, Arabic
VCL	Certification - Emission, Clean Fuel Vehicle, Fleet
VC0	Vehicle Label, Noise Control Information
VC4	Label, Price/Fuel Economy, Puerto Rico and Virgin Islands
VC5	Label Shipping, except US, US Possessions, or Japan
VC7	Label, Price/Fuel Economy, Guam
VG8	Vehicle Label, Notice to Buyer
VK3	License Plate Front Mounting Package
VK5	Seat Temporary, for Shipping
VPH	Vehicle Preparation, Overseas Delivery
VP6	Noise Control
VR4	Trailer Hitch Weight Distribution Platform
VR6	Hook Tie Down Shipping
VXS	Vehicle Complete
VXT	Vehicle Incomplete
V10	Provision Options Cold Weather
V14	Cooler Oil, Transmission, Auxiliary
V22	Grille Radiator, Chrome
V37	Bumper Front and Rear, Chrome
V39	Emergency Kit
V46	Bumper Front Chrome
V60	Vehicle Statement Gulf States Organization, Incomplete Vehicle
V73	Vehicle Statement, USA/Canada
V78	Vehicle Statement - Delete
V87	Vehicle Statement, Gulf States Organization
WEN	Plant Code, Wentzville, MO, USA
XEP	Tire Front - P235/75R16 - 109S WOL R/PE ST TL ALS
XHF	Tire Front - LT225/75R16/E BL R/PE ST ALS
XHH	Tire Front - LT245/75R16/E BL R/PE ST ALS
XHP	Tire Front - LT225/75R16/D BL R/PE ST TL ALS
XLP	Tire Front - LT245/75R16/E BW R/PE ST TL ALS 120/116S
XNF	Tire Front - P235/75R16 - 106S BW R/PE ST TL ALS
XNK	Tire Front - P245/75R16 - 109S BW R/PE ST TL ALS
XNL	Tire Front - P245/75R16-109S WOL R/PE ST TL ALS
X88	Conversion Name PLT Chevrolet
YA2	Door Side RR, Sliding
YA7	Test - Emission, California Assembly Line
YB9	Paint Process Interior - Delete
YC6	Convenience Package Decor Level #6
YF1	Sales Package, Cutaway, Upfitter
YF2	Sales Package - Ambulance Uplifter
YF5	Certification - Emission, California
YF7	Sales Package, Recreational Vehicle, Upfitter
YG8	Identification - P.E.P. Vehicle
YHF	Tire Rear - LT225/75R16/E BL R/PE ST ALS
YHH	Tire Rear - LT245/75R16/E BL R/PE ST ALS
YHP	Tire Rear - LT225/75R16/D BL R/PE ST TL ALS
YLP	Tire Rear - LT245/75R16/E BW R/PE ST TL ALS 120/116S
YNF	Tire Rear - P235/75R16 - 106S BW R/PE ST TL ALS
YNK	Tire Rear - P245/75R16 - 109S BW R/PE ST TL ALS
YNL	Tire Rear - P245/75R16 - 109S WOL R/PE ST TL ALS

RPO	Description
Y3G	Merchandised Package Mobility, Personal Use
Y3H	Merchandised Package Mobility, Paratransit
ZHF	Tire Spare - LT225/75R16/E BL R/PE ST ALS
ZHH	Tire Spare - LT245/75R16/E BL R/PE ST ALS
ZHP	Tire Spare - LT225/75R16/D BL R/PE ST TL ALS
ZLP	Tire Spare - LT245/75R16/E BW R/PE ST TL ALS 120/116A
ZNF	Tire Spare - P235/75R16 - 106S BW R/PE ST TL ALS
ZNK	Tire Spare - P245/75R16 - 109S BW R/PE ST TL ALS
ZNL	Tire Spare - P245/75R16 - 109S WOL R/PE ST TL ALS
ZP0	Seating Arrangement, Temporary Driver
ZP3	Seating Arrangement, 15 Passengers
ZP5	Seating Arrangement, 5 Passengers
ZP8	Seating Arrangement, 8 Passengers
ZQ2	Sales Package - Driver Convenience
ZQ3	Sales Package - Driver Convenience II
ZR7	Appearance Package - Grille and Bumper Chrome
ZW2	Window Pkg - RR DRS
ZW3	Window Pkg - RR DRS, Side RR DR
ZW4	Window Pkg - RH Side, RR Drs
ZW6	Window Pkg - Complete Body
ZW9	Body Equipment Base Body or Chassis
ZX1	Seating Arrangement Driver Only, High Back
ZX2	Seating Arrangement Driver and Passenger, High Back
ZX5	Seating Arrangement 12 Passenger
ZX9	Spare Tire w/Wheel - Delete
Z49	Export Canadian Modification Base Equipment
Z5X	Mirror Provisions, Arabic Language
Z82	Trailer Provisions Special Equipment H.D.

Technical Information

Maintenance and Lubrication

Capacities - Approximate Fluid

Application	Capacities	
	Metric	English
Cooling System		
4.3L	10.4 liters	11.0 quarts
4.8L, 5.3L	12.7 liters	13.4 quarts
6.0L	14.0 liters	14.8 quarts
Cooling System with Rear Heat		
4.3L	13.2 liters	14.0 quarts
4.8L, 5.3L	15.5 liters	16.4 quarts
6.0L	17.0 liters	17.8 quarts
Engine Oil with Filter		
4.3L	4.3 liters	4.5 quarts
4.8L/5.3L	5.7 liters	6.0 quarts
6.0L	5.7 liters	6.0 quarts
6.6L	9.5 liters	10.0 quarts
Engine Oil Without Filter		
6.6L	8.7 liters	9.2 quarts
Fuel Tank		
Standard Tank-Passenger/Cargo	117.3 liters	31.0 gallons
Standard Tank-Cab/Chassis	124.9 liters	33.0 gallons
Optional Tank-159 inch (4039 mm) or 177 inch (4496 mm)	215.7 liters	57.0 gallons
Automatic Transaxle		
Automatic Dry - 4L60-E	8.3 liters with 245 converter 9.17 liters with 258 converter 10.6 liters with 298 converter	8.8 quarts with 245 converter 9.7 quarts with 258 converter 11.2 quart with 298 converter
Automatic Drain and Refill - 4L80-E MT1	7.3 liters	7.7 quarts
Automatic Dry	12.8 liters	13.5 quarts

Maintenance Items

Gasoline Engine Vehicles

Part	GM Part Number	ACDelco Part Number
Engine Air Cleaner/Filter	--	A1621C
Engine Oil Filter		
4300 V6	25010792	PF47
4800 V8, 5300 V8, 6000 V8	88984215	PF46
Passenger Compartment Air Filter Kit	52485513	CF104
PCV Valve -- 4300 V6	6487532	CV 769-C
Spark Plugs		
4300 V6	25162556	41-932
4800 V8, 5300 V8, 6000 V8	12571164	41-985
Wiper Blades (ITTA Type) 22 inches (56.0 cm)	15153642	--

Diesel Engine Vehicles

Part	GM Part Number	ACDelco Part Number
Oil Filter	88917036	PF2232
Engine Air Cleaner/Filter Pickups Models Van Models	 25332443 15102546	 A1618C A2959C
Fuel Filter(s) Pickup Models Van Models (Primary and Secondary Filter Kit)	 97385488 19121764	 TP1298A RK58095*
Use only the specified filters. *Racor service kit includes primary filter, secondary filter and o-rings.		

Fluid and Lubricant Recommendations

Gasoline Engine Vehicles

Usage	Fluid/Lubricant
Engine Oil	Engine oil which meets GM Standard GM6094M and displays the American Petroleum Institute Certified for Gasoline Engines starburst symbol. GM Goodwrench® oil meets all the requirements for your vehicle.
Engine Coolant	50/50 mixture of clean, drinkable water and use only DEX-COOL® Coolant.
Hydraulic Brake System	Delco® Supreme 11 Brake Fluid or equivalent DOT-3 brake fluid.
Windshield Washer	GM Optikleen Washer Solvent.
Parking Brake Cable Guides	Chassis Lubricant (GM Part No. U.S. 12377985, in Canada 88901242) or lubricant meeting requirements of NLGI #2, Category LB or GC-LB.
Power Steering System	GM Power Steering Fluid (GM Part No. U.S. 89021184, in Canada 89021186).
Automatic Transmission	DEXRON®-VI Automatic Transmission Fluid.
Key Lock Cylinders	Multi-Purpose Lubricant, Superlube (GM Part No. U.S. 12346241, in Canada 10953474).
Chassis Lubrication	Chassis Lubricant (GM Part No. U.S. 12377985, in Canada 88901242) or lubricant meeting requirements of NLGI #2, Category LB or GC-LB.
Front Wheel Bearings	Wheel bearing lubricant meeting requirements of NLGI #2, Category GC or GC-LB (GM Part No. U.S. 1051344, in Canada 993037).

Usage	Fluid/Lubricant
Front and Rear Axle	SAE 75W-90 Synthetic Axle Lubricant (GM Part No. U.S. 12378261, in Canada 10953455) or equivalent meeting GM Specification 9986115.
Transfer Case	DEXRON®-III Automatic Transmission Fluid. Look for "Approved for the H-Specification" on the label.
One-Piece Propshaft Slip Yoke Spline, Two-Piece Propshaft Slip-in-Tube Spline	Spline Lubricant, Special Lubricant (GM Part No. U.S. 12345879, in Canada 10953511) or lubricant meeting requirements of GM 9985830.
Hood Hinges	Multi-Purpose Lubricant, Superlube (GM Part No. U.S. 12346241, in Canada 10953474).
Weatherstrip Conditioning	Dielectric Silicone Grease (GM Part No. U.S. 12345579, in Canada 992887).
Weatherstrip Squeaks	Synthetic Grease with Teflon, Superlube (GM Part No. U.S. 12371287, in Canada 10953437).

Diesel Engine Vehicles

Usage	Fluid/Lubricant
Engine Oil	Engine oils with the letters CI-4 or CH-4 are best for your vehicle. The CI-4 or CH-4 designation may appear either alone, or in combination with other API designations, such as API CI-4/SL. These letters show American Petroleum Institute (API) levels of quality. GM Goodwrench® oil meets all the requirements for your vehicle.
Engine Coolant	50/50 mixture of clean, drinkable water and use only DEX-COOL® Coolant.
Hydraulic Brake System	Delco® Supreme 11 Brake Fluid or equivalent DOT-3 brake fluid.
Windshield Washer	GM Optikleen Washer Solvent.
Van Models: Parking Brake Cable Guides	Chassis Lubricant (GM Part No. U.S. 12377985, in Canada 88901242) or lubricant meeting requirements of NLGI #2, Category LB or GC-LB.
Pickup Models: Hydraulic Clutch System (5-Speed Trans.)	Hydraulic Clutch Fluid (GM Part No. U.S. 12345347, in Canada 10953517) or equivalent DOT-3 brake fluid.
Pickup Models: Hydraulic Clutch System (6-Speed Trans.)	Hydraulic Clutch Fluid. Use only GM Part No. U.S. 88958860, in Canada 88901244, Super DOT-4 brake fluid.
Power Steering System	GM Power Steering Fluid (GM Part No. U.S. 89021184, in Canada 89021186).
Pickup Models: Manual Transmission (5-Speed with Low Gear, RPO MW3)	GM Goodwrench® Synthetic Manual Transmission Fluid (GM Part No. U.S. 12346190, in Canada 10953477) or equivalent SAE 75W-85 GL-4 gear oil.
Pickup Models: Manual Transmission (5-Speed without Low Gear, RPO MG5)	Synchromesh Transmission Fluid (GM Part No. U.S. 12345349, in Canada 10953465).
Pickup Models: Manual Transmission (6-Speed)	Synthetic Transmission Fluid approved to Allison Transmission® specification TES-295 (GM Part No. U.S. 12378515, in Canada 88900701).
Automatic Transmission	DEXRON®-VI Automatic Transmission Fluid.
Key Lock Cylinders	Multi-Purpose Lubricant, Superlube (GM Part No. U.S. 12346241, in Canada 10953474).
Pickup Models: Floor Shift Linkage	Lubriplate Lubricant Aerosol (GM Part No. U.S. 12346293, in Canada 992723) or lubricant meeting requirements of NLGI #2 Category LB or GC-LB.
Chassis Lubrication	Chassis Lubricant (GM Part No. U.S. 12377985, in Canada 88901242) or lubricant meeting requirements of NLGI #2, Category LB or GC-LB.
Van Models: Front Wheel Bearings	Wheel bearing lubricant meeting requirements of NLGI #2, Category GC or GC-LB (GM Part No. U.S. 1051344, in Canada 993037).

Maintenance Items

Gasoline Engine Vehicles

Part	GM Part Number	ACDelco Part Number
Engine Air Cleaner/Filter	--	A1621C
Engine Oil Filter		
4300 V6	25010792	PF47
4800 V8, 5300 V8, 6000 V8	88984215	PF46
Passenger Compartment Air Filter Kit	52485513	CF104
PCV Valve -- 4300 V6	6487532	CV 769-C
Spark Plugs		
4300 V6	25162556	41-932
4800 V8, 5300 V8, 6000 V8	12571164	41-985
Wiper Blades (ITTA Type) 22 inches (56.0 cm)	15153642	--

Diesel Engine Vehicles

Part	GM Part Number	ACDelco Part Number
Oil Filter	88917036	PF2232
Engine Air Cleaner/Filter Pickups Models Van Models	 25332443 15102546	 A1618C A2959C
Fuel Filter(s) Pickup Models Van Models (Primary and Secondary Filter Kit)	 97385488 19121764	 TP1298A RK58095*
Use only the specified filters. *Racor service kit includes primary filter, secondary filter and o-rings.		

Fluid and Lubricant Recommendations

Gasoline Engine Vehicles

Usage	Fluid/Lubricant
Engine Oil	Engine oil which meets GM Standard GM6094M and displays the American Petroleum Institute Certified for Gasoline Engines starburst symbol. GM Goodwrench® oil meets all the requirements for your vehicle.
Engine Coolant	50/50 mixture of clean, drinkable water and use only DEX-COOL® Coolant.
Hydraulic Brake System	Delco® Supreme 11 Brake Fluid or equivalent DOT-3 brake fluid.
Windshield Washer	GM Optikleen Washer Solvent.
Parking Brake Cable Guides	Chassis Lubricant (GM Part No. U.S. 12377985, in Canada 88901242) or lubricant meeting requirements of NLGI #2, Category LB or GC-LB.
Power Steering System	GM Power Steering Fluid (GM Part No. U.S. 89021184, in Canada 89021186).
Automatic Transmission	DEXRON®-VI Automatic Transmission Fluid.
Key Lock Cylinders	Multi-Purpose Lubricant, Superlube (GM Part No. U.S. 12346241, in Canada 10953474).
Chassis Lubrication	Chassis Lubricant (GM Part No. U.S. 12377985, in Canada 88901242) or lubricant meeting requirements of NLGI #2, Category LB or GC-LB.
Front Wheel Bearings	Wheel bearing lubricant meeting requirements of NLGI #2, Category GC or GC-LB (GM Part No. U.S. 1051344, in Canada 993037).

Usage	Fluid/Lubricant
Van Models: Front and Rear Axle	SAE 75W-90 Synthetic Axle Lubricant (GM Part No. U.S. 12378261, in Canada 10953455) or equivalent meeting GM Specification 9986115.
Pickup Models: Front Axle	SAE 80W-90 Axle Lubricant (GM Part No. U.S. 1052271, in Canada 10950849).
Pickup Models: Rear Axle	SAE 75W-90 Synthetic Axle Lubricant (GM Part No. U.S. 12378261, in Canada 10953455) meeting GM Specification 9986115.
Pickup Models: Manual Transfer Case	DEXRON®-III Automatic Transmission Fluid. Look for "Approved for the H-Specification" on the label.
Pickup Models: Automatic Transfer Case	AUTO-TRAK II Fluid (GM Part No. U.S. 12378508, in Canada 10953626).
Van Models: Transfer Case	DEXRON®-III Automatic Transmission Fluid. Look for "Approved for the H-Specification" on the label.
Van Models: One-Piece Propshaft Slip Yoke Spline, Two-Piece Propshaft Slip-in-Tube Spline	Spline Lubricant, Special Lubricant (GM Part No. U.S. 12345879, in Canada 10953511) or lubricant meeting requirements of GM 9985830.
Pickup Models: Front Axle Propshaft Spline or One-Piece Propshaft Spline (Two-Wheel Drive with Auto. Trans.)	Spline Lubricant, Special Lubricant (GM Part No. U.S. 12345879, in Canada 10953511) or lubricant meeting requirements of GM 9985830.
Pickup Models: Rear Driveline Center Spline	Chassis Lubricant (GM Part No. U.S. 12377985, in Canada 88901242) or lubricant meeting requirements of NLGI #2, Category LB or GC-LB.
Hood Hinges	Multi-Purpose Lubricant, Superlube (GM Part No. U.S. 12346241, in Canada 10953474).
Pickup Models: Body Door Hinge Pins, Tailgate Hinge and Linkage, Folding Seats, and Fuel Door Hinge	Multi-Purpose Lubricant, Superlube (GM Part No. U.S. 12346241, in Canada 10953474).
Pickup Models: Tailgate Handle Pivot Points, Hinges, Latch Bolt, and Linkage	Multi-Purpose Lubricant, Superlube (GM Part No. U.S. 12346241, in Canada 10953474).
Weatherstrip Conditioning	Dielectric Silicone Grease (GM Part No. U.S. 12345579, in Canada 992887).
Weatherstrip Squeaks	Synthetic Grease with Teflon, Superlube (GM Part No. U.S. 12371287, in Canada 10953437).

Descriptions and Operations

Power Steering System

General Description

The hydraulic power steering pump is a constant displacement vane-type pump that provides hydraulic pressure and flow for the power steering gear. The hydraulic power steering pumps are either belt-driven or direct-drive, cam-driven.

The power steering fluid reservoir holds the power steering fluid and may be integral with the power steering pump or remotely located. The following locations are typical locations for the remote reservoir:

- Mounted to the front of the dash panel
- Mounted to the inner fender
- Mounted to a bracket on the engine

The 2 basic types of power steering gears are listed below:

- A recirculating ball system
- A rack and pinion system

In the recirculating ball system, a worm gear converts steering wheel movement to movement of a sector shaft. A pitman arm attached to the bottom of the sector shaft actually moves one tie rod and an intermediate rod move the other tie rod.

In the rack and pinion system, the rack and the pinion are the 2 components that convert steering wheel rotation to lateral movement. The steering shaft is attached to the pinion in the steering gear. The pinion rotates with the steering wheel. Gear teeth on the pinion mesh with the gear teeth on the rack. The rotating pinion moves the rack from side to side. The lateral action of the rack pushes and pulls the tie rods in order to change the direction of the vehicle's front wheels.

The power steering pressure hose connects the power steering pump union fitting to the power steering gear and allows pressurized power steering fluid to flow from the pump to the gear.

The power steering return hose returns fluid from the power steering gear back to the power steering fluid reservoir. The power steering return line may contain an integral fin-type or line-type power steering fluid cooler.

In a typical power steering system, a pump generates hydraulic pressure, causing fluid to flow, via the pressure hose, to the steering gear valve assembly. The steering gear valve assembly regulates the incoming fluid to the right and left chambers in order to assist in right and left turns.

Turning the steering wheel activates the valve assembly, which applies greater fluid pressure and flow to 1 side of the steering gear piston, and lower pressure and flow to the other side of the piston. The pressure assists the movement of the gear piston. Tie rods transfer this force to the front wheels, which turn the vehicle right or left.

Steering Linkage

The steering linkage consists of the following components:

- A pitman arm
- A connecting rod
- 2 idler arms
- A relay rod
- 2 adjustable tie rods

When you turn the steering wheel, the steering gear rotates the pitman arm which forces the relay rod to one side. The tie rods connect to the relay rod with the ball studs. The tie rods transfer the steering force to the wheels. Use the tie rods in toe adjustments. The tie rods are adjustable. The pitman arm and the idler arm support the relay rod. The idler arm pivots on a support attached to the frame rail.

Steering Wheel and Column

The steering wheel and column has 4 primary functions:

- Vehicle steering
- Vehicle security
- Driver convenience
- Driver safety

Vehicle Steering

The steering wheel is the first link between the driver and the vehicle. The steering wheel is fastened to a steering shaft within the column. At the lower end of the column, the intermediate shaft connects the column to the steering gear.

Vehicle Security

Theft deterrent components are mounted and designed into the steering column. The following components allow the column to be locked in order to minimize theft:

- The ignition switch
- The steering column lock
- The ignition cylinder

Driver Convenience

The steering wheel and column may also have driver controls attached for convenience and comfort. The following controls may be mounted on or near the steering wheel or column.

- The turn signal switch
- The hazard switch
- The headlamp dimmer switch
- The wiper/washer switch
- The horn pad/cruise control switch
- The redundant radio/entertainment system controls
- The tilt or tilt/telescoping functions
- The HVAC controls

Driver Safety

The energy-absorbing steering column compresses in the event of a front-end collision, which reduces the chance of injury to the driver. The mounting capsules break away from the mounting bracket in the event of an accident.

Suspension Description and Operation

Front Suspension

Coil Spring

The front suspension has 2 primary purposes:

- Isolate the driver from irregularities in the road surface.
- Define the ride and handling characteristics of the vehicle.

The front suspension absorbs the impact of the tires travelling over irregular road surfaces and dissipates this energy throughout the suspension system. This process isolates the vehicle occupants from the road surface. The rate at which the suspension dissipates the energy and the amount of energy that is absorbed is how the suspension defines the vehicle's ride characteristics. Ride characteristics are designed into the suspension system and are not adjustable. The ride characteristics are mentioned in this description in order to aid in the understanding of the functions of the suspension system. The suspension system must allow for the vertical movement of the tire and wheel assembly as the vehicle travels over irregular road surfaces while maintaining the tire's horizontal relationship to the road.

This requires that the steering knuckle be suspended between an upper and a lower control arm. The lower control arm attaches from the steering Knuckle at the outermost point of the control arm. The attachment is through a ball and socket type joint. The innermost end of the control arm attached at 2 points to the vehicle frame, through semi-rigid bushings. The upper control arm attaches to the frame in the same fashion. Between the lower control arm and a spring seat on the vehicle's frame, under tension, is a coil spring.

This up and down motion of the steering knuckle as the vehicle travels over bumps is absorbed predominantly by the coil spring. The vertical movement of the steering knuckle as the vehicle travels over irregular road surfaces will tend to compress the spring and spring tension will lead the spring to return to the original, at-rest state. This action isolates the vehicle from the road surface. The upper and lower control arms are allowed to pivot at the vehicle frame in a vertical fashion. The ball joint allows the steering knuckle to maintain the perpendicular relationship to the road surface.

A shock absorber is used in conjunction with this system in order to dampen out the oscillations of the coil spring. A shock absorber is a basic hydraulic cylinder. The shock is filled with oil and has a moveable shaft that connects to a piston inside the shock absorber. Valves inside the shock absorber offer resistance to oil flow and consequently inhibit rapid movement of the piston and shaft. Each end of the shock absorber is connected in such a fashion to utilize this recoil action of a spring alone.

Front suspensions systems utilize a stabilizer shaft. The stabilizer bar connects between the left and right lower control arm assemblies through the stabilizer link and stabilizer shaft insulators. This bar controls the amount of independent movement of the suspension when the vehicle turns. Limiting the independent movement defines the vehicle's handling characteristics on turns.

Torsion Bar

The front suspension has 2 primary purposes:

- Isolate the driver from irregularities in the road surface.
- Define the ride and handling characteristics of the vehicle.

The front suspension absorbs the impact of the tires travelling over irregular road surfaces and dissipates this energy throughout the suspension system. This process isolates the vehicle occupants from the road surface. The rate at which the suspension dissipates the energy and the amount of energy that is absorbed is how the suspension defines the vehicle's ride characteristics. Ride characteristics are designed into the suspension system and are not adjustable. The ride characteristics are mentioned in this description in order to aid in the understanding of the functions of the suspension system. The suspension system must allow for the vertical movement of the tire and wheel assembly as the vehicle travels over irregular road surfaces while maintaining the tire's horizontal relationship to the road.

This requires that the steering knuckle be suspended between an upper and a lower control arm. The lower control arm attaches from the steering knuckle at the outermost point of the control arm. The attachment is through a ball and socket type joint. The innermost end of the control arm is attached at 2 points to the vehicle frame through semi-rigid bushings. The upper control arm attaches to the frame in the same fashion. Attached to the lower control arm is a torsion bar. Torsion bars are steel or steel composite shaft that connects from the lower control arm an adjustable mount at the torsion bar crossmember. The torsion bar functions as a spring in this suspension system. The torsion bar absorbs energy from irregular road surfaces by twisting force along the center axis. The torsion bar has a resistance to this twisting motion and will return to the original, at-rest position similar to that of a spring.

A shock absorber is used in conjunction with this system in order to dampen out the oscillations of the torsion bar. A shock absorber is a basic hydraulic cylinder. The shock is filled with oil and has a moveable shaft that connects to a piston inside the shock absorber. Valves inside the shock absorber offer resistance to oil flow and consequently offer resistance to rapid movement of the piston and shaft. Each end of the shock absorber is connected in such a fashion in order to utilize this recoil action of a torsion bar alone.

Front suspension systems utilize a stabilizer shaft. The stabilizer bar connects between the left and right lower control arm assemblies through the stabilizer link and stabilizer shaft insulators. This bar controls the amount of independent movement of the suspension when the vehicle turns. Limiting the independent movement defines the vehicle's handling characteristics on turns.

Rear Suspension

These vehicles use a leaf spring and a solid rear axle suspension system.

The rear axle assembly is attached to multi-leaf springs with U-bolts. The front ends of the springs are attached to the frame at the front hangers with rubber bushings. The rear ends of the springs are attached to the frame with shackles that use rubber bushings. Shackles allow the springs to change position while the vehicle is in motion.

Two direct double-acting shock absorbers provide ride control. The shock absorbers are angle-mounted between the frame. The shock absorbers are attached with brackets. The brackets are attached to the anchor plate.

The rear spring steel stabilizing shaft helps minimize body roll and sway during cornering. The rear stabilizer shaft is connected to the rear axle and the frame with the following components:

- The rubber insulators
- The clamps
- The link assemblies

Wheels and Tires

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Single Wheel Nuts	190 N·m	140 lb ft
Spare Tire Hoist Retaining Bolt	52 N·m	38 lb ft
Valve Stem Retaining Nut	4 N·m	35 lb in

General Description

The factory installed tires are designed to operate satisfactorily with loads up to and including the full rated load capacity when these tires are inflated to the recommended pressures.

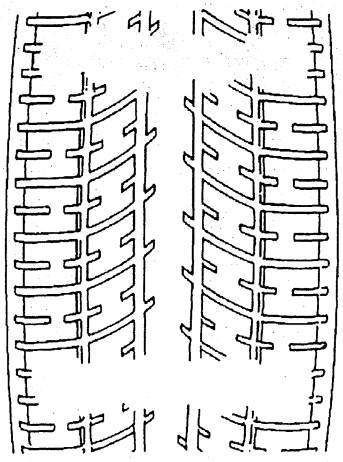
The following factors have an important influence on tire life:

- Correct tire pressures
- Correct wheel alignment
- Proper driving techniques
- Tire rotation

The following factors increase tire wear:

- Heavy cornering
- Excessively rapid acceleration
- Heavy braking

Tread Wear Indicators Description



The original equipment tires have tread wear indicators that show when you should replace the tires.

The location of these indicators are at 72 degree intervals around the outer diameter of the tire. The indicators appear as a 6 mm (0.25 in) wide band when the tire tread depth becomes 1.6 mm (2/32 in).

Metric Wheel Nuts and Bolts Description

Metric wheel/nuts and bolts are identified in the following way:

- The wheel/nut has the word Metric stamped on the face.
- The letter M is stamped on the end of the wheel bolt.

The thread sizes of metric wheel/nuts and the bolts are indicated by the following example: M12 x 1.5.

- M = Metric
- 12 = Diameter in millimeters
- 1.5 = Millimeters gap per thread

Tire Inflation Description

When you inflate the tires to the recommended inflation pressures, the factory-installed wheels and tires are designed in order to handle loads to the tire's rated load capacity. Incorrect tire pressures, or under-inflated tires, can cause the following conditions:

- Vehicle handling concerns
- Poor fuel economy
- Shortened tire life
- Tire overloading

Inspect the tire pressure when the following conditions apply:

- The vehicle has been sitting at least 3 hours.
- The vehicle has not been driven for more than 1.6 km (1 mi).
- The tires are cool.

Inspect the tires monthly or before any extended trip. Adjust the tire pressure to the specifications on the tire label. Install the valve caps or the extensions on the valves. The caps or the extensions keep out dust and water.

The kilopascal (kPa) is the metric term for pressure. The tire pressure may be printed in both kilopascal (kPa) and psi. One psi equals 6.9 kPa.

Inflation Pressure Conversion (Kilopascals to PSI)

kPa	psi	kPa	psi
140	20	215	31
145	21	220	32
155	22	230	33
160	23	235	34
165	24	240	35
170	25	250	36
180	26	275	40
185	27	310	45
190	28	345	50
200	29	380	55
205	30	415	60
Conversion: 6.9 kPa = 1 psi			

Tires with a higher than recommended pressure can cause the following conditions:

- A hard ride
- Tire bruising
- Rapid tread wear at the center of the tire

Tires with a lower than recommended pressure can cause the following conditions:

- A tire squeal on turns
- Hard steering
- Rapid wear and uneven wear on the edge of the tread
- Tire rim bruises and tire rim rupture
- Tire cord breakage
- High tire temperatures
- Reduced vehicle handling
- High fuel consumption
- Soft riding

Unequal pressure on the same axle can cause the following conditions:

- Uneven braking
- Steering lead
- Reduced vehicle handling

Tire Description

Caution

Do not mix different types of tires on the same vehicle such as radial, bias, and bias-belted tires except in emergencies because vehicle handling may be seriously affected and may result in loss of control and possible serious injury.

This vehicle is equipped with speed rated tires. Listed below are the common speed rating symbols and the corresponding maximum speeds:

Speed Symbol	Maximum Speed (km/h)	Maximum Speed (mp/h)
S	180	112
T	190	118
U	200	124
H	210	130
V	240	149
Z	Over 240	Over 149

A Tire Performance Criteria (TPC) specification number is molded in the sidewall near the tire size of all original equipment tires. Usually, a specific TPC number is assigned to each tire size. The TPC specification number assures that the tire meets the following GM's performance standards.

- Meets the standards for traction.
- Meets the standards for endurance.
- Meets the standards for dimension.
- Meets the standards for noise.
- Meets the standards for handling.
- Meets the standards for rolling resistance, and others.

The following is required of replacement tires:

- Replacement tires must be of the same size as the original tires.
- Replacement tires must be of the same speed rating as the original tires.
- Replacement tires must be of the same load index as the original tires.
- Replacement tires must be of the same construction as the original tires.
- Replacement tires must have the same TPC specification number as the original tires.

The following may seriously be affected by the use of any other tire size, tire speed rating or tire type:

- May seriously affect the ride.
- May seriously affect the handling.
- May seriously affect the speedometer/odometer calibration.
- May seriously affect the antilock brake system.
- May seriously affect the vehicle ground clearance.
- May seriously affect the trailering capacity.
- May seriously affect the tire clearance to the body.
- May seriously affect the tire clearance to the chassis.

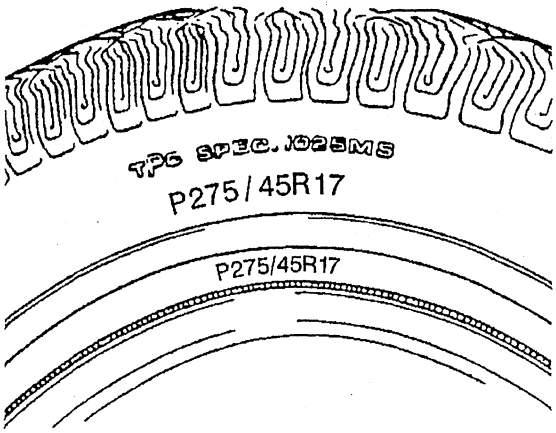
Conditions for Tire Replacement

Replace the tires when one and/or all of the following conditions are evident:

- When the tire(s) is worn to a point where 1.6 mm (2/32 in) or less of tread remains. The tires have built in tread wear indicators that appear between the tread grooves when the tread is worn to 1.6 mm (2/32 in) or less to help in the detection of this condition. Replace the tire when the indicators appear in two or more adjacent grooves at three spots around the tire.
- When the following conditions are evident on the tread:
  - When the tread is cracked.
  - When the tread is cut.
  - When the tread is snagged deeply enough to expose the cord.
  - When the tread is snagged deeply enough to expose the fabric.
  - When the sidewall is snagged deeply enough to expose the cord.
  - When the sidewall is snagged deeply enough to expose the fabric.
- When the following conditions are evident on the tire:
  - When the tire has a bump.
  - When the tire has a bulge (protrusion).
  - When the tire is split.
  - Please note that slight sidewall indentations are normal in radial tires.
- When the following damage is evident on the tire and the damage cannot be correctly repaired because of the size or the location of the damage:
  - When the tire has a puncture.
  - When the tire is cut, or other damage.

Always install new tires in pairs on the same axle. In the event that only one tire is replaced, then pair with the tire having the most tread.

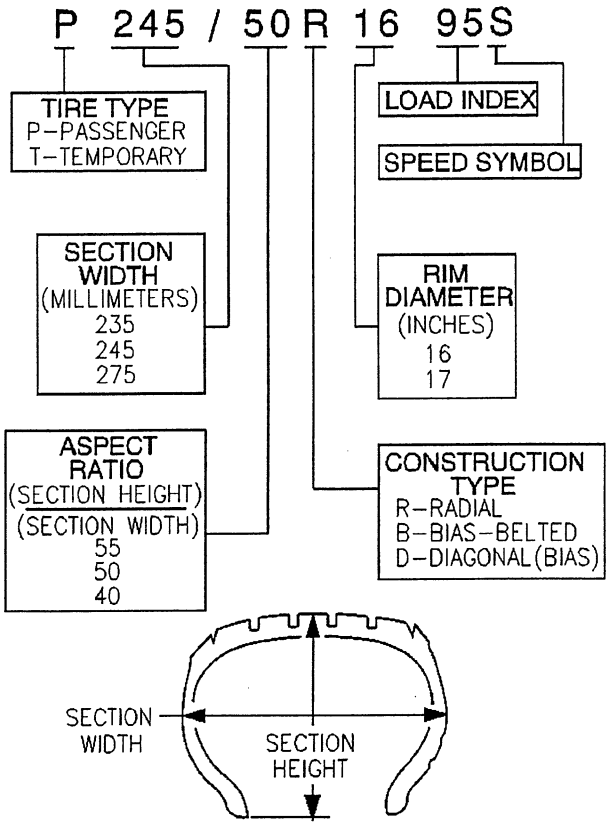
All Seasons Tires Description



Most GM vehicles are equipped with steel belted all-season radial tires as standard equipment. These tires qualify as snow tires, with a higher than average rating for snow traction than the non-all season radial tires previously used. Other performance areas, such as wet traction, rolling resistance, tread life, and air retention, are also improved. This is done by improvements in both tread design and tread compounds. These tires are identified by an M + S molded in the tire side wall after the tire size. The suffix MS is also molded in the tire side wall after the TPC specification number.

The optional handling tires used on some vehicles now also have the MS marking after the tire size and the TPC specification number.

P-Metric Sized Tires Description



Most P-metric tire sizes do not have exact corresponding alphanumeric tire sizes. Replacement tires should be of the same tire performance criteria (TPC) specification number including the same size, the same load range, and the same construction as those originally installed on the vehicle. Consult a tire dealer if you must replace the P-metric tire with other sizes. Tire companies can best recommend the closest match of alphanumeric to P-metric sizes within their own tire lines.

Driveline System Description and Operation

Driveline/Axle – Propeller Shaft

The Propeller Shaft is a tube with universal joints at both ends which do not require periodic maintenance, that transmit power from the transmission output shaft to the differential.

Front Propeller Shaft Description

The front propeller shaft transmits rotating force from the transfer case to the front differential when the transfer case is engaged. The front propeller shaft connects to the transfer case using a splined slip joint.

One Piece Propeller Shaft Description

A one piece propeller shaft uses a splined slip joint to connect the driveline to the transmission.

Two Piece Propeller Shaft Description

There are three universal joints used on the two piece propeller shaft. A center bearing assembly is used to support the propeller shaft connection point, and help isolate the vehicle from vibration.

Propeller Shaft Phasing Description

The driveline components in this vehicle have been system balanced at the factory. System balance provides for a smoother running driveline. These components include the propeller shafts, drive axles, pinion shafts and output shafts. Affixed to the rear axle is a system balanced driveline notice indicating that the driveline components have been factory tested. The propeller shaft is designed and built with the yoke lugs/ears in line with each other. This produces the smoothest running shaft possible. A propeller shaft designed with built in yoke lugs in line is known as in -- phase. An out of phase propeller shaft often causes vibration. The propeller shaft generates vibration from speeding up and slowing down each time the universal joint goes around. The vibration is the same as a person snapping a rope and watching the wave reaction flow to the end. An in phase propeller shaft is similar to 2 persons snapping a rope at the same time and watching the waves meet and cancel each other out. A total cancellation of vibration produces a smooth flow of power in the drive line. All splined shaft slip yokes are keyed in order to ensure proper phasing.

Universal Joint Description

The universal joint is connected to the propeller shaft. The universal consist of 4 caps with needle bearings and grease seals mounted on the trunnions of a cross or spider. These bearings and caps are greased at the factory and no periodic maintenance is required. There are 2 universal joints used in a one piece propeller shaft and 3 used in two piece propeller shaft. The bearings and caps are pressed into the yokes and held in place with snap rings, except for 2 bearings on some models witch are strapped onto the pinion flange of the differential. Universal joints are designed to handle the effects of various loads and rear axle windup conditions during acceleration and braking. The universal joint operates efficiently and safely within the designed angle variations. when the design angles are exceeded, the operational life of the joint decreases.

Center Bearing Description

Center bearings support the driveline when using 2 or more propeller shafts. The center bearing is a ball bearing mounted in a rubber cushion that attaches to a frame crossmember. The manufacturer prelubricates and seals the bearing. The cushion allows vertical motion at the driveline and helps isolate the vehicle from vibration.

Wheel Drive Shafts

Front Wheel Drive Shafts are flexible assemblies which consist of the following components:

- Front wheel drive shaft constant velocity joint outer joint.
- Front wheel drive shaft tri-pot joint inner joint.
- The front wheel drive shaft connects the front wheel drive shaft tri-pot joint and the front wheel drive shaft constant velocity joint.
- Wheel Drive Shaft Seal Cover 15 Series
- The front wheel drive shaft tri-pot joint is completely flexible, and moves with an in and out motion.
- The front wheel drive shaft constant velocity joint is flexible but can not move in and out.

The Wheel Drive Shaft is a balanced shaft that transmits rotational force from the front differential to the front wheels when the transfer case is engaged. The wheel drive shaft is mounted to the front differential by bolting the flange of the wheel drive shaft to the flange on the inner output shaft of the front differential. The other end of the wheel drive shaft is splined to fit into and drive the hub assembly when the transfer case is engaged. The tri-pot joint and constant velocity joint on the wheel drive shaft allows the shaft to be flexible to move with the suspension travel of the vehicle.

Front Drive Axle Description and Operation

The Front Drive Axle consist of the following components:

- The differential carrier housing
- The differential assembly
- The left and right output shafts
- The inner axle shaft housing
- The inner axle shaft

The front axle on the four-wheel-drive model vehicle does not have a central disconnect feature. The axle uses a conventional ring and pinion gear set in order to transmit the driving force of the engine to the wheels. The open differential allows the wheels to turn at different rates of speed while the axle continues to transmit the driving force. This prevents tire scuffing when going around corners and premature wear on internal axle parts. The ring and pinion set and the differential are contained within the carrier. The axle identification number on top of the differential carrier assembly or on a label on the right half of differential carrier assembly. The drive axles are completely flexible assemblies consisting of inner and outer constant velocity CV joints protected by thermoplastic boots and connected by a wheel drive shaft.

Rear Drive Axle Description and Operation

Rear axles for this vehicle consist of the following components:

- Differential axle housing
- Differential carrier
- Right and left axle tubes
- Right and left axle shafts

These axles are either full-floating or semi-floating. These axles can be identified as follows: the semi-floating axle has axle shafts with C-clips inside the differential carrier on the inner ends of the axle shafts. The full-floating axle has bolts at the hub retaining the axle shafts to the hub assembly. The axles can be identified by the stamping on the right side axle tube and may also be identified by the ring gear size. The ring gear sizes include 8.60, 9.50, and 10.50 inch axles. The locking differential information for these rear axles can be located in the locking differential section.

The driveline components in this vehicle have been system balanced at the factory. System balance provides for a smoother running driveline. These components include the propeller shafts, drive axles, pinion shafts and output shafts. Affixed to the rear axle is a system balanced driveline notice indicating that the driveline components have been factory tested. All components must be referenced marked before disassembly and reassembly in the exact relationship to each other the components had before removal.

An open differential has a set of four gears. Two are side gears and two are pinion gears. Some differentials have more than two pinion gears. Each side gear is splined to an axle shaft which turns when it's side gear rotates. The pinion gears are mounted on a differential pinion shaft, and the gears are free to rotate on this shaft. The pinion shaft is fitted into a bore in the differential case and is at right angles to the axle shafts. Power is transmitted through the differential as follows: the drive pinion rotates the ring gear. The ring gear, which is bolted to the differential case, rotates the case. The differential pinion, as it rotates the case, forces the pinion gears against the side gears. When both wheels have equal traction, the pinion gears do not rotate on the pinion shaft because the input force on the pinion gear is equally divided between the two side gears. Therefore, the pinion gears revolve with the pinion shaft, but do not rotate around the shaft itself. The side gears, being splined to the axle shafts and in mesh with the pinion gears rotate the axle shafts. If a vehicle were always driven in a straight line, the ring and pinion gears would be sufficient. The axle shaft could be solidly attached to the ring gear and both driving wheels would turn at equal speed. However, if it became necessary to turn a corner, the tires would scuff and slide because the differential allows the axle shafts to rotate at different speeds. When the vehicle turns a corner, the inner wheel turns slower than the outer wheel and slows it's rear axle side gear because the shaft is splined to the side gear. The rear axle pinion gears will roll around the slowed rear axle side gear, driving the rear axle side gear wheel faster.

Locking/Limited Slip Rear Axle Description and Operation

The locking differential consists of the following components:

- Differential case - 1 or 2 piece
- Locking differential spider - 2 piece case only
- Pinion gear shaft - 1 piece case only
- Differential pinion gear shaft lock bolt - 1 piece case only
- 2 clutch discs sets
- Locking differential side gear
- Thrust block
- Locking differential clutch disc guides
- Differential side gear shim
- Locking differential clutch disc thrust washer
- Locking differential governor
- Latching bracket
- Cam plate assembly
- Differential pinion gears
- Differential pinion gear thrust washers

The optional locking differential (RPO G80) enhances the traction capability of the rear axle by combining the characteristics of a limited-slip differential and the ability of the axle shafts to "lock" together when uneven traction surfaces exist. The differential accomplishes this in 2 ways. First by having a series of clutch plates at each side of the differential case to limit the amount of slippage between each wheel. Second, by using a mechanical locking mechanism to stop the rotation of the right differential side gear, or the left differential side gear on the 10.5 inch axle, in order to transfer the rotating torque of the wheel without traction to the wheel with traction. Each of these functions occur under different conditions.

Limited-Slip Function

Under normal conditions, when the differential is not locked, a small amount of limited-slip action occurs. The gear separating force developed in the right-hand (left-hand side on 10.5 inch axle) clutch pack is primarily responsible for this.

The operation of how the limited-slip function of the unit works can be explained when the vehicle makes a right-hand turn. Since the left wheel travels farther than the right wheel, it must rotate faster than the ring gear and differential case assembly. This results in the left axle and left side gear rotating faster than the differential case. The faster rotation of the left-side gear causes the pinion gears to rotate on the pinion shaft. This causes the right-side gear to rotate slower than the differential case.

Although the side gear spreading force produced by the pinion gears compresses the clutch packs, primarily the right side, the friction between the tires and the road surface is sufficient to overcome the friction of the clutch packs. This prevents the side gears from being held to the differential case.

Locking Function

Locking action occurs through the use of some special parts:

- A governor mechanism with 2 flyweights
- A latching bracket
- The left side cam plate and cam side gear

When the wheel-to-wheel speed difference is 100 RPM or more, the flyweights of the governor will fling out and one of them will contact an edge of the latching bracket. This happens because the left cam side gear and cam plate are rotating at a speed different, either slower or faster, than that of the ring gear and differential case assembly. The cam plate has teeth on its outer diameter surface in mesh with teeth on the shaft of the governor.

As the side gear rotates at a speed different than that of the differential case, the shaft of the governor rotates with enough speed to force the flyweights outward against spring tension. One of the flyweights catches its edge on the closest edge of the latching bracket, which is stationary in the differential case. This latching process triggers a chain of events.

When the governor latches, it stops rotating. A small friction clutch inside the governor allows rotation, with resistance, of the governor shaft while one flyweight is held to the differential case through the latching bracket. The purpose of the governor's latching action is to slow the rotation of the cam plate as compared to the cam side gear. This will cause the cam plate to move out of its detent position.

The cam plate normally is held in its detent position by a small wave spring and detent humps resting in matching notches of the cam side gear. At this point, the ramps of the cam plate ride up on the ramps of the cam side gear, and the cam plate compresses the left clutch pack with a self-energizing action.

As the left clutch pack is compressed, it pushes the cam plate and cam side gear slightly toward the right side of the differential case. This movement of the cam side gear pushes the thrust block which compresses the right-hand side gear clutch pack.

At this point, the force of the self-energizing clutches and the side gear separating force combine to hold the side gears to the differential case in the locking stage.

The entire locking process occurs in less than 1 second. The process works with either the left or right wheel spinning, due to the design of the governor and cam mechanism. A torque reversal of any kind will unlatch the governor, causing the cam plate to ride back down to its detent position. Cornering or deceleration during a transmission shift will cause a torque reversal of this type. The differential unit returns to its limited-slip function.

The self-energizing process would not occur if it were not for the action of one of the left clutch discs. This energizing disc provides the holding force of the ramping action to occur. It is the only disc which is splined to the cam plate itself. The other splined discs fit on the cam side gear.

If the rotating speed of the ring gear and differential case assembly is high enough, the latching bracket will pivot due to centrifugal force. This will move the flyweights so that no locking is permitted. During vehicle driving, this happens at approximately 32 km/h (20 mph) and continues at faster speeds.

When comparing the effectiveness of the locking differential, in terms of percent-of-grade capability to open and limited-slip units, the locking differential has nearly 3 times the potential of the limited-slip unit under the same conditions.

Locking Differential Torque-Limiting Disc

The locking differential design was modified in mid-1986 to include a load-limiting feature to reduce the chance of breaking an axle shaft under abusive driving conditions. The number of tangs on the energizing disc in the left-hand clutch pack was reduced allowing these tangs to shear in the event of a high-torque engagement of the differential locking mechanism.

At the time of failure of the load-limiting disc, there will be a loud bang in the rear axle and the differential will operate as a standard differential with some limited-slip action of the clutch packs at low torques.

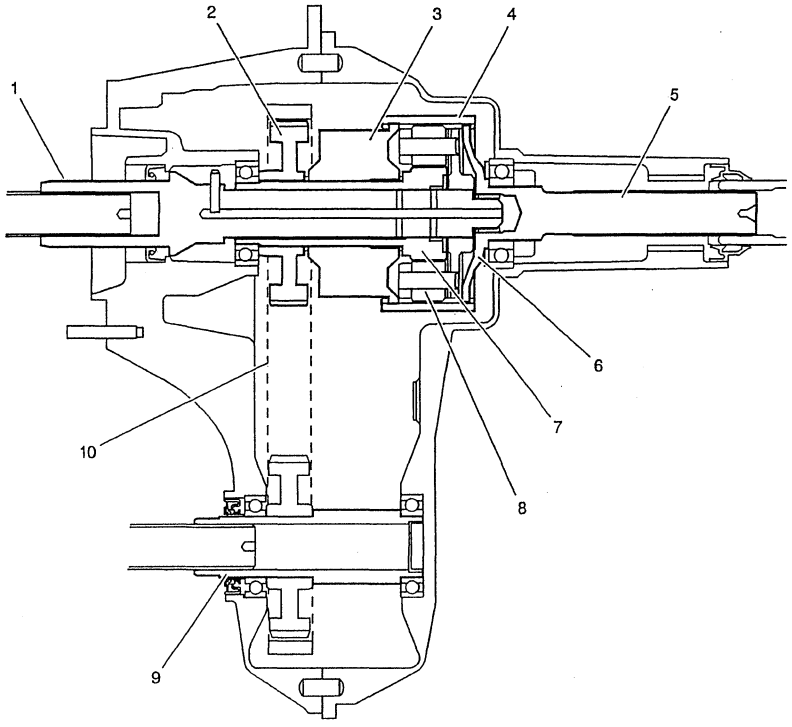
The service procedure, when the disc tangs shear, involves replacing the left-hand clutch plates and the wave spring. It is also necessary to examine the axle shafts for twisting because at high torques it is possible to not only shear the load-limiting disc, but to also twist the axle shafts.

Transfer Case - BW 4473-NP3

General Description

The Borg Warner (BW) model 4473 RPO NP3 transfer case is a one-speed, full time AWD, transfer case. The BW 4473 provides one operating mode, 4HI full-time AWD. The transfer case has a planetary differential gear set, which provides a 35 percent/65 percent torque split, front/rear, full time. Both axles are constantly being driven for maximum traction, and the best balance of vehicle handling characteristics under all operating conditions is provided.

The BW 4473 case halves are high-pressure die-cast aluminium. The transfer case requires DEXRON®III ATF Fluid GM P/N 12346143 (Canadian P/N 10952622), which is red in color.



The power flows from the transmission to the transfer case input shaft (1). The input shaft (1) delivers the power to the planetary center differential (4), which splits the torque 35 percent through the differential pinion gears (8) to the front sun gear (7), through the sprocket drive (2), via the chain (10) to the front output shaft (9) and to the front propeller shaft. 65 percent of the torque is delivered to the rear output, which goes through the differential ring gear (6), which is connected to the rear output shaft (5), and to the rear propeller shaft.

The viscous coupling (3), torque biasing device, has a series of opposing discs which are attached to the front and rear output shafts. One set turns with the front axle and the one set turns with the rear axle. The viscous coupling has a sealed housing, which is filled with high viscosity silicone fluid. When there is a speed difference between front and rear axles, the inner and outer plates of the coupling turn relative to each other. The silicone fluid provides resistance to the speed difference, and torque is transferred to the axles to equalize the speed difference. The tuning of the coupling is such that binding is not felt in tight turns, on dry surfaces, while being high enough to bias torque quickly to the wheels that have traction in a

vehicle slip event. If the speed difference between the axles is high, the viscous coupling can go into "hump" mode. This occurs when the heat generated by the high speed difference expands the viscous fluid in the coupling, which results in pressure between the plates, forcing them in to contact each other, similar to a clutch pack. In the "hump" mode, the coupling can bias torque 100 percent to one axle. To prevent damage to the viscous coupling, the following should be avoided in the vehicle:

- Do not tow with only two wheels on the ground.
- Do not drive with one propeller shaft removed.
- Do not drive with a mini spare tire for any extended period of time.
- Do not operate the vehicle on a hoist to diagnose the driveline components.

It is normal for one set of tires to spin until the viscous coupling engages. Turning off the traction control switch, if equipped, enhances the function of the viscous coupling. The viscous coupling, as described above, engages by heat. Allowing one set of tires to spin or slip for a very brief period, generates heat in the viscous coupling. The engine speed should be kept at a constant speed during the brief spin of the tires. Feathering the engine speed, or hard acceleration, will not allow the viscous coupling to operate properly.

Braking System Description and Operation

Hydraulic Brake System Description and Operation

System Component Description

The hydraulic brake system consists of the following:

Hydraulic Brake Master Cylinder Fluid Reservoir

Contains supply of brake fluid for the hydraulic brake system.

Hydraulic Brake Master Cylinder

Converts mechanical input force into hydraulic output pressure.

Hydraulic output pressure is distributed from the master cylinder through two hydraulic circuits, supplying diagonally-opposed wheel apply circuits.

Hydraulic Brake Pressure Balance Control System

Regulates brake fluid pressure delivered to hydraulic brake wheel circuits, in order to control the distribution of braking force.

Pressure balance control is achieved through dynamic rear proportioning (DRP), which is a function of the ABS modulator.

Hydraulic Brake Pipes and Flexible Brake Hoses

Carries brake fluid to and from hydraulic brake system components.

Hydraulic Brake Wheel Apply Components

Converts hydraulic input pressure into mechanical output force.

System Operation

Mechanical force is converted into hydraulic pressure by the master cylinder, regulated to meet braking system demands by the pressure balance control system, and delivered to the hydraulic brake wheel circuits by the pipes and flexible hoses. The wheel apply components then convert the hydraulic pressure back into mechanical force which presses linings against rotating brake system components.

Brake Assist System Description and Operation

System Component Description

The brake assist system consists of the following:

Brake Pedal

Receives, multiplies and transfers brake system input force from driver.

Brake Pedal Pushrod

Transfers multiplied input force received from brake pedal to brake booster.

Vacuum Brake Booster

Uses source vacuum to decrease effort required by driver when applying brake system input force.

When brake system input force is applied, air at atmospheric pressure is admitted to the rear of both vacuum diaphragms, providing a decrease in brake pedal effort required. When input force is removed, vacuum replaces atmospheric pressure within the booster.

Vacuum Source

Supplies force used by vacuum brake booster to decrease brake pedal effort.

Vacuum Source Delivery System

Enables delivery and retention of source vacuum for vacuum brake booster.

System Operation

Brake system input force is multiplied by the brake pedal and transferred by the pedal pushrod to the hydraulic brake master cylinder. Effort required to apply the brake system is reduced by the vacuum brake booster.

Disc Brake System Description and Operation

System Component Description

The disc brake system consists of the following components:

Disc Brake Pads

Applies mechanical output force from the hydraulic brake calipers to friction surfaces of brake rotors.

Disc Brake Rotors

Uses mechanical output force applied to friction surfaces from the disc brake pads to slow speed of tire and wheel assembly rotation.

Disc Brake Pad Hardware

Secures disc brake pads firmly in proper relationship to the hydraulic brake calipers. Enables a sliding motion of brake pads when mechanical output force is applied.

Disc Brake Caliper Hardware

Provides mounting for hydraulic brake caliper and secures the caliper firmly in proper relationship to caliper bracket. Enables a sliding motion of the brake caliper to the brake pads when mechanical output force is applied.

System Operation

Mechanical output force is applied from the hydraulic brake caliper pistons to the inner brake pads. As the pistons press the inner brake pads outward, the caliper housings draw the outer brake pads inward. This allows the output force to be equally distributed. The brake pads apply the output force to the friction surfaces on both sides of the brake rotors, which slows the rotation of the tire and wheel assemblies. The

correct function of both the brake pad and brake caliper hardware is essential for even distribution of braking force.

Drum Brake System Description and Operation

System Component Description

The drum brake system consists of the following:

Drum Brake Shoes

Applies mechanical output force (from hydraulic brake wheel cylinders) to friction surface of brake drums.

Brake Drums

Uses mechanical output force applied to friction surface from drum brake shoes to slow speed of tire and wheel assembly rotation.

Drum Brake Hardware

Secures drum brake shoes firmly in proper relationship to hydraulic brake wheel cylinders. Enables sliding motion of brake shoes needed to expand toward friction surface of drums when mechanical output force is applied; provides return of brake shoes when mechanical output force is relieved.

Drum Brake Adjusting Hardware

Provides automatic adjustment of brake shoes to brake drum friction surface whenever brake apply occurs during rearward motion of the vehicle.

System Operation

Mechanical output force is applied from the hydraulic brake wheel cylinder pistons to the top of the drum brake shoes. The output force is then distributed between the primary and secondary brake shoes as the shoes expand toward the friction surface of the brake drums. The brake shoes apply the output force to the friction surface of the brake drums, which slows the rotation of the tire and wheel assemblies. The proper function of both the drum brake hardware and adjusting hardware is essential to the proper distribution of braking force.

Park Brake System Description and Operation

The system is a self adjusting component and is located on the left side of the kick panel. This system will not require periodic adjustment. However, there is an adjustment feature built in the system located along the front left of the frame called the equalizer.

The park brake is not designed for use in the place of service brakes. Apply only after the vehicle is brought to a complete stop, except in an emergency. Before working on the park brake system, make sure the service brakes are in good working order and adjusted properly.

Lever

The park brake lever is located on the left side of the driver's compartment and is activated by foot pressure. The lever assembly has a ratchet mechanism in it to allow varying degrees of park brake application. The park brake handle on the instrument panel allows the driver to release the park brake.

Cable System

The cable system will vary depending on the type of park brake system used. Models with rear drum brakes use a system that includes one front cable and two rear cables. The front cable connects to the lever on one end and the connector on the other end. The rear cables attach to the equalizer and connector on one end and the park brake struts in the drum brakes on the other end.

Models with a propeller shaft park brake use a one-cable system. The cable connects to the front lever on one end and the rear lever on the other end.

Brake Lamp

The BRAKE warning lamp on the instrument cluster turns on when the park brake is applied. The lamp can also be turned on by the switch in the combination valve and the antilock brake system.

Parking Brake Switch

The park brake switch is located on the lever assembly. The switch serves as the device to turn on the BRAKE lamp when the parking brake is applied and turn it off when the parking brake is released.

Daytime Running Lights

All vehicles are equipped with a daytime running light (DRL) system. This system uses the park brake switch to turn the headlamps off when the ignition switch is ON and the park brake is applied.

ABS Description and Operation

Antilock Brake System

When wheel slip is detected during a brake application, the ABS enters antilock mode. During antilock braking, hydraulic pressure in the individual wheel circuits is controlled to prevent any wheel from slipping. A separate hydraulic line and specific solenoid valves are provided for each wheel. The ABS can decrease, hold, or increase hydraulic pressure to each wheel brake. The ABS cannot, however, increase hydraulic pressure above the amount which is transmitted by the master cylinder during braking.

During antilock braking, a series of rapid pulsations is felt in the brake pedal. These pulsations are caused by the rapid changes in position of the individual solenoid valves as the EBCM responds to wheel speed sensor inputs and attempts to prevent wheel slip. These pedal pulsations are present only during antilock braking and stop when normal braking is resumed or when the vehicle comes to a stop. A ticking or popping noise may also be heard as the solenoid valves cycle rapidly. During antilock braking on dry pavement, intermittent chirping noises may be heard as the tires approach slipping. These noises and pedal pulsations are considered normal during antilock operation.

Vehicles equipped with ABS may be stopped by applying normal force to the brake pedal. Brake pedal operation during normal braking is no different than that of previous non-ABS systems. Maintaining a constant force on the brake pedal provides the shortest stopping distance while maintaining vehicle stability.

Engine Description and Operation

Engine Mechanical – 4.3L

General Specifications

Application	Specification	
	Metric	English
General		
Engine Type	90 degree V6	
Displacement	4.3 L	262 CID
RPO	LU3	
VIN	X	
Bore	101.60 mm	4.012 in
Stroke	88.39 mm	3.480 in
Compression Ratio	9.2:1	
Firing Order	1-6-5-4-3-2	
Spark Plug Gap	1.52 mm	0.060 in
Balance Shaft		
Bearing Journal Diameter - Rear	38.085-38.100 mm	1.4994-1.500 in
Bushing Bore Diameter - Rear	0.050-0.088 mm	0.0020-0.0035 in
Block		
Crankshaft Main Bearing Bore Out-of-Round	0.050 mm	0.002 in
Cylinder Bore Diameter	101.618-101.643 mm	4.0007-4.0017 in
Cylinder Bore Out-of-Round - Production	0.017 mm	0.0007 in
Cylinder Bore Out-of-Round - Service	0.05 mm	0.002 in
Cylinder Bore Taper - Production Relief Side	0.025 mm	0.0010 in
Cylinder Bore Taper - Production Thrust Side	0.012 mm	0.0005 in
Cylinder Bore Taper - Service	0.025 mm	0.0010 in
Cylinder Head Deck Surface Flatness	0.050-0.152 mm	0.002-0.006 in
Camshaft		
Camshaft End Play	0.0254-0.2286 mm	0.0010-0.0090 in
Camshaft Journal Diameter	47.440-47.490 mm	1.8677-1.8696 in
Camshaft Journal Out-of-Round	0.025 mm	0.001 in
Camshaft Lobe Lift - Exhaust	7.20-7.30 mm	0.283-0.287 in
Camshaft Lobe Lift - Intake	6.97-7.07 mm	0.274-0.278 in
Camshaft Runout	0.065 mm	0.0026 in
Connecting Rod		
Connecting Rod Bearing Clearance - Production	0.038-0.078 mm	0.0015-0.0031 in
Connecting Rod Bearing Clearance - Service	0.025-0.063 mm	0.0010-0.0025 in
Connecting Rod Side Clearance	0.15-0.44 mm	0.006-0.017 in
Crankshaft		
Connecting Rod Journal Diameter	57.116-57.148 mm	2.2487-2.2497 in
Connecting Rod Journal Out-of-Round - Production	0.008 mm	0.0003 in
Connecting Rod Journal Out-of-Round - Service	0.025 mm	0.0010 in
Connecting Rod Journal Taper - Production	0.010 mm	0.0004 in
Connecting Rod Journal Taper - Service	0.025 mm	0.0010 in
Crankshaft End Play	0.050-0.20 mm	0.002-0.008 in
Crankshaft Main Bearing Clearance #1 - Production	0.02-0.05 mm	0.0008-0.0020 in
Crankshaft Main Bearing Clearance #2, #3, and #4 - Production	0.028-0.058 mm	0.0011-0.0023 in

Application	Specification	
	Metric	English
Crankshaft Main Bearing Clearance #1 - Service	0.0254-0.05 mm	0.0010-0.0020 in
Crankshaft Main Bearing Clearance #2, #3, and #4 - Service	0.025-0.063 mm	0.0010-0.0025 in
Crankshaft Main Journal Diameter #1	62.199-62.217 mm	2.4488-2.4495 in
Crankshaft Main Journal Diameter #2 and #3	62.191-62.215 mm	2.4485-2.4494 in
Crankshaft Main Journal Diameter #4	62.179-62.203 mm	2.4480-2.4489 in
Crankshaft Main Journal Out-of-Round - Production	0.005 mm	0.0002 in
Crankshaft Main Journal Out-of-Round - Service	0.025 mm	0.0010 in
Crankshaft Main Journal Taper	0.007 mm	0.0003 in
Exhaust Manifold		
Surface Flatness - Flange to Flange	0.25 mm	0.010 in
Surface Flatness - Individual Flange	0.05 mm	0.002 in
Intake Manifold		
Surface Flatness	0.10 mm	0.004 in
Lubrication System		
Oil Capacity for C/K, G/H with Filter	4.3 L	4.5 qt
Oil Capacity for C/K, G/H without Filter	3.8 L	4 qt
Oil Capacity for S/T, M/L with Filter	4.7 L	5 qt
Oil Capacity for S/T, M/L without Filter	4.3 L	4.5 qt
Oil Pressure - at 1,000 RPM	42 kPa	6 psi
Oil Pressure - at 2,000 RPM	125 kPa	18 psi
Oil Pressure - at 4,000 RPM	166 kPa	24 psi
Piston Rings		
Piston Ring End Gap - First Compression Ring - Production	0.25-0.40 mm	0.010-0.016 in
Piston Ring End Gap - Second Compression Ring - Production	0.38-0.58 mm	0.015-0.023 in
Piston Ring End Gap - Oil Control Ring - Production	0.25-0.76 mm	0.010-0.029 in
Piston Ring End Gap - First Compression Ring - Service	0.25-0.50 mm	0.010-0.020 in
Piston Ring End Gap - Second Compression Ring - Service	0.38-0.80 mm	0.015-0.031 in
Piston Ring End Gap - Oil Control Ring - Service	0.005-0.090 mm	0.0002-0.0035 in
Piston Ring to Groove Clearance - First Compression Ring - Production	0.030-0.070 mm	0.0012-0.0027 in
Piston Ring to Groove Clearance - Second Compression Ring - Production	0.076-0.280 mm	0.0030-0.0110 in
Piston Ring to Groove Clearance - Oil Control Ring - Production	0.046-0.196 mm	0.0018-0.0077 in
Piston Ring to Groove Clearance - First Compression Ring - Service	0.030-0.085 mm	0.0012-0.0033 in
Piston Ring to Groove Clearance - Second Compression Ring - Service	0.030-0.085 mm	0.0012-0.0033 in
Piston Ring to Groove Clearance - Oil Control Ring - Service	0.076-0.200 mm	0.0030-0.0079 in
Pistons and Pins		
Piston - Piston to Bore Clearance - Production	0.018-0.061 mm	0.0007-0.0024 in
Piston - Piston to Bore Clearance - Service	0.075 mm	0.0029 in

Application	Specification	
	Metric	English
Pin - Piston Pin Clearance to Connecting Rod Bore - Press Fit	0.012-0.048 mm	0.0005-0.0019 in
Pin - Piston Pin Clearance to Piston Pin Bore - Production	0.013-0.023 mm	0.0005-0.0009 in
Pin - Piston Pin Clearance to Piston Pin Bore - Service	0.025 mm	0.0010 in
Pin - Piston Pin Diameter	23.545-23.548 mm	0.9270-0.9271 in
Valve System		
Valves - Valve Face Angle	45 degrees	
Valves - Valve Seat Angle	46 degrees	
Valves - Valve Seat Runout	0.05 mm	0.002 in
Valves - Valve Seat Width - Intake	1.016-1.651 mm	0.040-0.065 in
Valves - Valve Seat Width - Exhaust	1.651-2.489 mm	0.065-0.098 in
Valves - Valve Stem Oil Seal Installed Height	1-2 mm	0.03937-0.07874 in
Valves - Valve Stem-to-Guide Clearance - Intake - Production	0.025-0.069 mm	0.0010-0.0027 in
Valves - Valve Stem-to-Guide Clearance - Intake - Service	0.025-0.094 mm	0.0010-0.0037 in
Valves - Valve Stem-to-Guide Clearance - Exhaust - Production	0.025-0.069 mm	0.0010-0.0027 in
Valves - Valve Stem-to-Guide Clearance - Exhaust - Service	0.025-0.094 mm	0.0010-0.0037 in
Rocker Arms - Valve Rocker Arm Ratio	1.5:1	
Valve Springs - Valve Spring Free Length	51.3 mm	2.02 in
Valve Springs - Valve Spring Installed Height - Intake	42.92-43.43 mm	1.670-1.700 in
Valve Springs - Valve Spring Installed Height - Exhaust	42.92-43.43 mm	1.670-1.700 in
Valve Springs - Valve Spring Load - Closed	338-374 N @ 43.2 mm	76-84 lb @ 1.70 in
Valve Springs - Valve Spring Load - Open	832-903 N @ 32.3 mm	187-203 lb @ 1.27 in

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Accelerator Control Cable Bracket Nut	12 N·m	106 lb in
Accelerator Control Cable Bracket Stud to Intake Manifold	6 N·m	53 lb in
Accelerator Control Cable Bracket Stud to Throttle Body	12 N·m	106 lb in
Air Cleaner Adapter Stud	10 N·m	89 lb in
Air Cleaner Outlet Duct Nut	2 N·m	18 lb in
Balance Shaft Driven Gear Bolt		
First Pass	20 N·m	15 lb ft
Final Pass	35 degrees	
Balance Shaft Retainer Bolt	12 N·m	106 lb in
Battery Negative Cable Bolt to Engine	25 N·m	18 lb ft
Belt Idler Pulley Bolt	50 N·m	37 lb ft
Camshaft Retainer Bolt	12 N·m	106 lb in
Camshaft Sprocket Bolt	25 N·m	18 lb ft
Connecting Rod Nut		
First Pass	27 N·m	20 lb ft
Final Pass	70 degrees	
Crankshaft Balancer Bolt	95 N·m	70 lb ft
Crankshaft Balancer Remover/Installer Bolt for tool J 23523 - F	25 N·m	18 lb ft

Application	Specification	
	Metric	English
Crankshaft Bearing Cap Bolt - Preferred Method		
First Pass	20 N·m	15 lb ft
Final Pass	73 degrees	
Crankshaft Bearing Cap Bolt - Optional Strategy	105 N·m	77 lb ft
Crankshaft Position Sensor Bolt	8 N·m	71 lb in
Crankshaft Pulley Bolt	58 N·m	43 lb ft
Crankshaft Rear Oil Seal Housing Bolt and Nut	12 N·m	106 lb in
Crankshaft Rear Oil Seal Housing Retainer Stud	6 N·m	53 lb in
Cylinder Head Bolt - Preferred Method		
All Bolts First Pass in Sequence	30 N·m	22 lb ft
Long Bolts Final Pass in Sequence	75 degrees	
Medium Bolts Final Pass in Sequence	65 degrees	
Short Bolts Final Pass in Sequence	55 degrees	
Cylinder Head Bolt - Optional On-Vehicle Strategy		
First Pass in Sequence	35 N·m	26 lb ft
Second Pass in Sequence	60 N·m	44 lb ft
Final Pass in Sequence	90 N·m	66 lb ft
Cylinder Head Core Hole Plug	20 N·m	15 lb ft
Distributor Cap Bolt	2.4 N·m	21 lb in
Distributor Clamp Bolt	25 N·m	18 lb ft
Drive Belt Idler Pulley Bolt	50 N·m	37 lb ft
Drive Belt Tensioner Bolt	50 N·m	37 lb ft
Engine Block Coolant Drain Hole Plug	20 N·m	15 lb ft
Engine Block Left Rear Oil Gallery Plug	30 N·m	22 lb ft
Engine Block Left Side Oil Gallery Plug	20 N·m	15 lb ft
Engine Block Oil Gallery Plug	20 N·m	15 lb ft
Engine Block Right Rear Oil Gallery Plug	20 N·m	15 lb ft
Engine Coolant Heater Bolt/Screw	2 N·m	18 lb in
Engine Coolant Temperature (ECT) Sensor	20 N·m	15 lb ft
Engine Flywheel Bolt	100 N·m	74 lb ft
Engine Front Cover Bolt	12 N·m	106 lb in
Engine Lift Bracket Bolt for tool J 41427	15 N·m	11 lb ft
Engine Lift Front Bracket Stud	35 N·m	26 lb ft
Engine Mount Adapter Bolts	50 N·m	37 lb ft
Engine Mount Heat Shield Bolt	6 N·m	53 lb in
Engine Mount to Engine Bolts	50 N·m	37 lb ft
Engine Mount to Frame Bracket Bolts	60 N·m	44 lb ft
Engine Oil Level Sensor	13 N·m	111 lb in
Engine Oil Pressure Gage Sensor	30 N·m	22 lb ft
Engine Oil Pressure Gage Sensor Fitting - Plus Required Angle	15 N·m	11 lb ft
Engine Wiring Harness Bracket Nut to Intake Manifold Stud	12 N·m	106 lb in
Engine Wiring Harness Retainer Nut to Transmission to Engine Stud	10 N·m	89 lb in
Evaporative Emission (EVAP) Canister Purge Solenoid Valve Nut to Intake Manifold	10 N·m	89 lb in
Exhaust Manifold Bolt/Stud		
First Pass	15 N·m	11 lb ft
Final Pass	30 N·m	22 lb ft
Fan and Water Pump Pulley Bolt	25 N·m	18 lb ft
Fuel Meter Body Bracket Bolt	10 N·m	89 lb in
Fuel Pipe Bracket Bolt	6 N·m	53 lb in
Fuel Pipe Retainer Nut	3 N·m	27 lb in
Generator and Drive Belt Tensioner Bracket Bolt to Engine	41 N·m	30 lb ft

Application	Specification	
	Metric	English
Generator and Drive Belt Tensioner Bracket Stud Nut	41 N·m	30 lb ft
Generator and Drive Belt Tensioner Bracket Stud to Engine	20 N·m	15 lb ft
Ground Wire Bolt to Rear of Left Cylinder Head	10 N·m	89 lb in
Ground Wire Nut to Water Outlet Stud	10 N·m	89 lb in
Ground Wire Stud to Rear of Right Cylinder Head	10 N·m	89 lb in
Heater Inlet and Outlet Hose Bracket Bolt to Oil Fill Tube Lower Support	5 N·m	44 lb in
Ignition Coil Stud	12 N·m	106 lb in
Knock Sensor	25 N·m	18 lb ft
Lower Intake Manifold Bolt		
First Pass in Sequence	3 N·m	27 lb in
Second Pass in Sequence	12 N·m	106 lb in
Final Pass in Sequence	15 N·m	11 lb ft
Oil Fill Tube to Oil Fill Tube Lower Support Bolt	5 N·m	44 lb in
Oil Fill Tube Lower Support Bolt and Stud	25 N·m	18 lb ft
Oil Fill Tube Nut	12 N·m	106 lb in
Oil Filter Adapter Bolt	21 N·m	15 lb ft
Oil Filter Fitting	55 N·m	41 lb ft
Oil Level Indicator Tube Bolt	12 N·m	106 lb in
Oil Level Indicator Tube to Oil Fill Tube Lower Support Bolt	5 N·m	44 lb in
Oil Pan Baffle Bolt	12 N·m	106 lb in
Oil Pan Bolt and Nut	25 N·m	18 lb ft
Oil Pan Drain Plug	25 N·m	18 lb ft
Oil Pump Bolt to Rear Crankshaft Bearing Cap	90 N·m	66 lb ft
Oil Pump Cover Bolt	12 N·m	106 lb in
Power Brake Booster Vacuum Hose Bracket Nut to Intake Manifold Stud	11 N·m	97 lb in
Power Steering Pump Bolt	50 N·m	37 lb ft
Power Steering Pump Bracket Bolt to Engine	41 N·m	30 lb ft
Power Steering Pump Bracket Stud Nut	41 N·m	30 lb ft
Power Steering Pump Bracket Stud to Engine	20 N·m	15 lb ft
Power Steering Pump Rear Bracket Nut to Engine	41 N·m	30 lb ft
Power Steering Pump Rear Bracket Nut to Power Steering Pump	50 N·m	37 lb ft
Spark Plug		
Initial Installation - NEW Cylinder Head	30 N·m	22 lb ft
All Subsequent Installations	15 N·m	11 lb ft
Spark Plug Wire Support Bolt	12 N·m	106 lb in
Starter Motor Wiring Harness/Transmission Cooler Pipe Bracket Bolt to Oil Pan	9 N·m	80 lb in
Throttle Body Stud	9 N·m	80 lb in
Transmission Bolt to Oil Pan	47 N·m	35 lb ft
Transmission Control Cable Bracket Bolt	40 N·m	30 lb ft
Transmission Cover Bolt	12 N·m	106 lb in
Transmission Fluid Fill Tube Bolt to Rear of Engine	10 N·m	89 lb in
Upper Intake Manifold Stud		
First Pass	5 N·m	44 lb in
Final Pass	9 N·m	80 lb in
Vacuum Brake Booster Hose Bracket Nut	11 N·m	97 lb in
Valve Lifter Pushrod Guide Bolt	16 N·m	12 lb ft
Valve Rocker Arm Bolt	30 N·m	22 lb ft
Valve Rocker Arm Cover Bolt	12 N·m	106 lb in
Water Outlet Stud	25 N·m	18 lb ft
Water Pump Bolt	45 N·m	33 lb ft

Engine Component Description

Balance Shaft

The cast iron balance shaft is mounted in the crankcase above and in-line with the camshaft. A camshaft gear drives the gear attached to the balance shaft. The front end of the balance shaft is supported by a ball-type bearing. The rear end of the balance shaft uses a sleeve-type bearing.

Camshaft

The steel camshaft is supported by four bearings pressed into the engine block. The camshaft timing chain sprocket mounted to the front of the camshaft is driven by the crankshaft sprocket through a camshaft timing chain.

Crankshaft

The cast nodular iron crankshaft is supported by four crankshaft bearings. The number four crankshaft bearing at the rear of the engine is the end thrust bearing. The crankshaft bearings are retained by bearing caps that are machined with the engine block for proper alignment and clearances. The crankshaft position sensor reluctor ring has three lugs used for crankshaft timing and is constructed of powdered metal. The crankshaft position sensor reluctor ring has a slight interference fit onto the crankshaft and an internal keyway for correct positioning.

Cylinder Heads

The cast iron cylinder heads have one intake and one exhaust valve for each cylinder. A spark plug is located between the valves in the side of the cylinder head. The valve guides and seats are integral to the cylinder head. The 4.3L heavy duty applications have pressed in exhaust valve seats. The valve rocker arms are positioned on the valve rocker arm supports and retained by a bolt.

Engine Block

The cast iron engine block has six cylinders arranged in a V shape with three cylinders in each bank. Starting at the front side of the engine block, the cylinders in the left bank are numbered 1-3-5 and cylinders in the right bank are numbered 2-4-6 (when viewed from the rear). The firing order of the cylinders is 1-6-5-4-3-2. The cylinders are encircled by coolant jackets.

Exhaust Manifolds

The cast iron exhaust manifolds direct exhaust gases from the combustion chambers to the exhaust system. The left side exhaust manifold has a port for the EGR valve inlet pipe.

Intake Manifold

The intake manifold is a two-piece design. The upper portion is made from a composite material and the lower portion is cast aluminum. The throttle body attaches to the upper manifold. The lower manifold has an exhaust gas recirculation (EGR) port cast into the manifold for mixture. The (EGR) valve bolts into the lower intake manifold. The Central Sequential Multiport Fuel Injection system uses multiple fuel injectors to meter and distribute fuel to each engine cylinder. The Central (SFI) is retained by a bracket bolted to the lower intake manifold. The fuel meter body also houses the pressure regulator. Metal inlet and outlet fuel lines and nylon delivery tubes connect to the Central (SFI) unit. The delivery tubes independently distribute fuel to each cylinder through nozzles located at the port entrance of each manifold runner where the fuel is atomized.

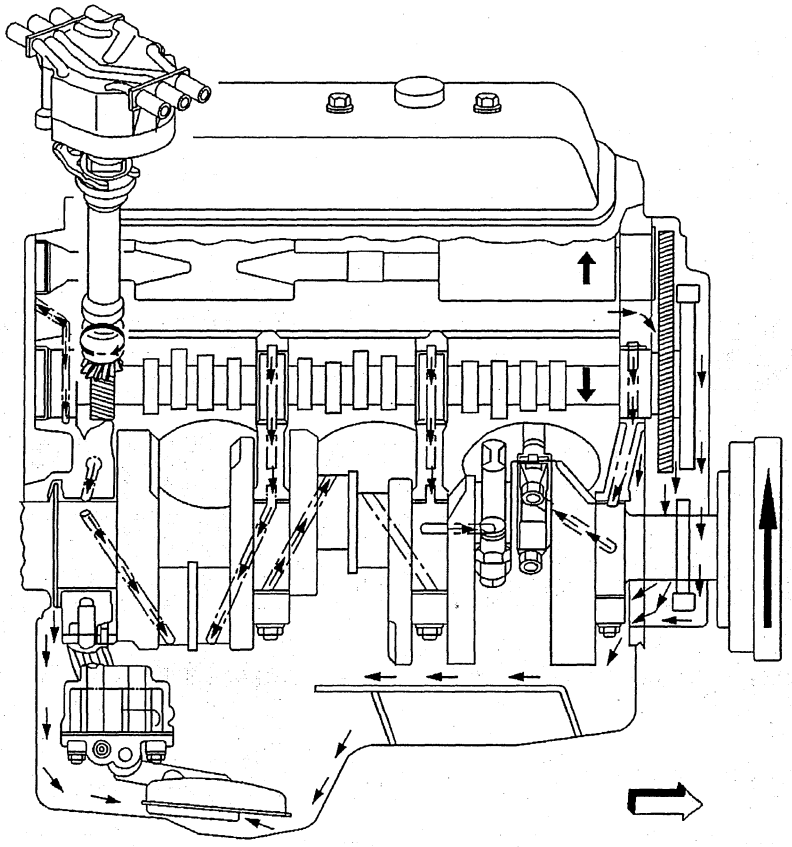
Piston and Connecting Rod Assemblies

The cast aluminum pistons use two compression rings and one oil control assembly. The piston is a low friction, lightweight design with a flat top and barrel shaped skirt. The piston pins are offset 0.9 mm (0.0354 in) toward the major thrust side (right side) to reduce piston slap as the connecting rod travels from one side of the piston to the other side after a stroke. The piston pins have a floating fit in the piston and are retained by a press fit in the connecting rod. The connecting rods are forged steel. The connecting rods are machined with the rod cap installed for proper clearances and alignments.

Valve Train

Motion is transmitted from the camshaft through the hydraulic roller valve lifters and the tubular valve pushrods to the roller type valve rocker arms. The roller type valve rocker arm pivots on a needle type bearing in order to open the valve. The valve rocker arms for each bank of cylinders are mounted to a one piece valve rocker arm support. Each valve rocker arm is retained on the valve rocker arm support and the cylinder head by a bolt. The hydraulic valve lifters keep all the parts of the valve train in constant contact. Each hydraulic valve lifter acts as an automatic adjuster and maintains zero lash in the valve train. This eliminates the need for periodic valve adjustment.

Lubrication



Full pressure lubrication, through a full-flow oil filter is supplied by a gear-type oil pump. Oil is drawn up through the oil pump screen and passes through the pump to the oil filter. The oil filter is a full-flow paper element unit with an anti-drain back valve. An oil filter bypass valve is used to ensure adequate oil supply, in the event the filter becomes plugged or develops excessive pressure drop. Filtered oil flows into the main gallery and then to the camshaft, the balance shaft, the rear bearing, and the crankshaft bearings. The valve lifter oil gallery supplies oil to the valve lifters. Oil flows from the valve lifters through the hollow valve pushrods to the valve rocker arms. Oil drains back to the crankcase through the oil drain holes in the cylinder head. The camshaft timing chain is drip fed from the front camshaft bearing. The pistons and piston pins are lubricated by oil splash.

Drive Belt System Description

The drive belt system consists of the following components:

- The drive belt
- The drive belt tensioner
- The drive belt idler pulley
- The crankshaft balancer pulley
- The accessory drive component mounting brackets
- The accessory drive components
  - The power steering pump, if belt driven
  - The generator
  - The A/C compressor, if equipped
  - The engine cooling fan, if belt driven
  - The water pump, if belt driven
  - The vacuum pump, if equipped
  - The air compressor, if equipped

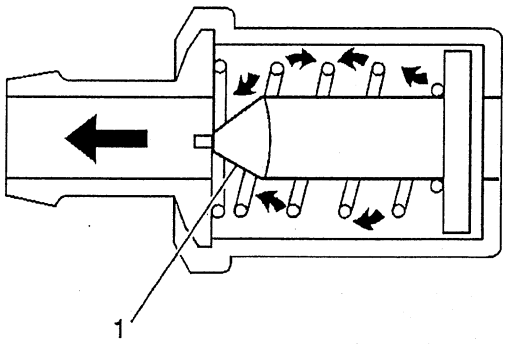
The drive belt system may use one belt or two belts. The drive belt is thin so that it can bend backwards and has several ribs to match the grooves in the pulleys. There also may be a V-belt style belt used to drive certain accessory drive components. The drive belts are made of different types of rubbers (chloroprene or EPDM) and have different layers or plys containing either fiber cloth or cords for reinforcement.

Both sides of the drive belt may be used to drive the different accessory drive components. When the back side of the drive belt is used to drive a pulley, the pulley is smooth.

The drive belt is pulled by the crankshaft balancer pulley across the accessory drive component pulleys. The spring loaded drive belt tensioner keeps constant tension on the drive belt to prevent the drive belt from slipping. The drive belt tensioner arm will move when loads are applied to the drive belt by the accessory drive components and the crankshaft.

The drive belt system may have an idler pulley, which is used to add wrap to the adjacent pulleys. Some systems use an idler pulley in place of an accessory drive component when the vehicle is not equipped with the accessory.

Crankcase Ventilation System Description



A crankcase ventilation system is used in order to provide a more complete scavenging of crankcase vapors. The air cleaner supplies fresh air through a filter to the crankcase. The crankcase mixes the fresh air with blow-by gases. This mixture then passes through a crankcase ventilation valve into the intake manifold.

The primary control is through the crankcase ventilation valve (1), which meters the flow at a rate depending on the manifold vacuum.

In order to maintain an idle quality, the crankcase ventilation valve restricts the flow when the intake manifold vacuum is high. If abnormal operating conditions arise, the system is designed in order to allow the excessive amounts of blow-by gases to back flow through the crankcase vent tube into the air cleaner in order to be consumed by normal combustion.

Engine Mechanical – 4.8L, 5.3L & 6.0L

General Specifications 4.8L

Application	Specification	
	Metric	English
General		
Bore	96.0-96.018 mm	3.779-3.78 in
Compression Ratio	9.47:1	
Displacement	4.8L	293 CID
Engine Type	V8	
Firing Order	1-8-7-2-6-5-4-3	
RPO	LR4	
Stroke	83.0 mm	3.268 in
VIN	V	
Spark Plug Gap	1.02 mm	0.04 in
Block		
Camshaft Bearing Bore 1 and 5 Diameter	59.62-59.67 mm	2.347-2.349 in
Camshaft Bearing Bore 2 and 4 Diameter	59.12-59.17 mm	2.327-2.329 in
Camshaft Bearing Bore 3 Diameter	58.62-58.67 mm	2.307-2.309 in
Crankshaft Main Bearing Bore Diameter	69.871-69.889 mm	2.75-2.751 in
Crankshaft Main Bearing Bore Out-of-Round	0.006 mm	0.0002 in
Cylinder Bore Diameter	96.0-96.018 mm	3.779-3.78 in
Cylinder Head Deck Height - Measuring from the Centerline of Crankshaft to the Deck Face	234.57-234.82 mm	9.235-9.245 in
Cylinder Head Deck Surface Flatness - Measured within a 152.4 mm (6.0 in) Area	0.11 mm	0.004 in
Cylinder Head Deck Surface Flatness - Measuring the Overall Length of the Block Deck	0.22 mm	0.008 in
Valve Lifter Bore Diameter	21.417-21.443 mm	0.843-0.844 in
Camshaft		
Camshaft End Play	0.025-0.305 mm	0.001-0.012 in
Camshaft Journal Diameter	54.99-55.04 mm	2.164-2.166 in
Camshaft Journal Out-of-Round	0.025 mm	0.001 in
Camshaft Lobe Lift - Exhaust	6.96 mm	0.274 in
Camshaft Lobe Lift - Intake	6.82 mm	0.268 in
Camshaft Runout - Measured at the Intermediate Journals	0.05 mm	0.002 in
Connecting Rod		
Connecting Rod Bearing Clearance - Production	0.023-0.065 mm	0.0009-0.0025 in
Connecting Rod Bearing Clearance - Service	0.023-0.076 mm	0.0009-0.003 in
Connecting Rod Bore Diameter - Bearing End	56.505-56.525 mm	2.224-2.225 in
Connecting Rod Bore Out-of-Round - Bearing End - Production	0.004-0.008 mm	0.00015-0.0003 in
Connecting Rod Bore Out-of-Round - Bearing End - Service	0.004-0.008 mm	0.00015-0.0003 in
Connecting Rod Side Clearance	0.11-0.51 mm	0.00433-0.02 in
Crankshaft		
Connecting Rod Journal Diameter - Production	53.318-53.338 mm	2.0991-2.0999 in
Connecting Rod Journal Diameter - Service	53.308 mm	2.0987 in
Connecting Rod Journal Out-of-Round - Production	0.005 mm	0.0002 in
Connecting Rod Journal Out-of-Round - Service	0.01 mm	0.0004 in

Application	Specification	
	Metric	English
Connecting Rod Journal Taper - Maximum for 1/2 of Journal Length - Production	0.005 mm	0.0002 in
Connecting Rod Journal Taper - Maximum for 1/2 of Journal Length - Service	0.02 mm	0.00078 in
Crankshaft End Play	0.04-0.2 mm	0.0015-0.0078 in
Crankshaft Main Bearing Clearance - Production	0.02-0.052 mm	0.0008-0.0021 in
Crankshaft Main Bearing Clearance - Service	0.02-0.065 mm	0.0008-0.0025 in
Crankshaft Main Journal Diameter - Production	64.992-65.008 mm	2.558-2.559 in
Crankshaft Main Journal Diameter - Service	64.992 mm	2.558 in
Crankshaft Main Journal Out-of-Round - Production	0.003 mm	0.000118 in
Crankshaft Main Journal Out-of-Round - Service	0.008 mm	0.0003 in
Crankshaft Main Journal Taper - Production	0.01 mm	0.0004 in
Crankshaft Main Journal Taper - Service	0.02 mm	0.00078 in
Crankshaft Rear Flange Runout	0.05 mm	0.002 in
Crankshaft Reluctor Ring Runout - Measured 1.0 mm (0.04 in) Below Tooth Diameter	0.7 mm	0.028 in
Crankshaft Thrust Surface - Production	26.14-26.22 mm	1.029-1.0315 in
Crankshaft Thrust Surface - Service	26.22 mm	1.0315 in
Crankshaft Thrust Surface Runout	0.025 mm	0.001 in
Cylinder Head		
Cylinder Head Height/Thickness - Measured from the Cylinder Head Deck to the Valve Rocker Arm Cover Seal Surface	120.2 mm	4.732 in
Surface Flatness - Block Deck - Measured within a 152.4 mm (6.0 in) Area	0.08 mm	0.003 in
Surface Flatness - Block Deck - Measuring the Overall Length of the Cylinder Head	0.1 mm	0.004 in
Surface Flatness - Exhaust Manifold Deck	0.13 mm	0.005 in
Surface Flatness - Intake Manifold Deck	0.08 mm	0.0031 in
Valve Guide Installed Height - Measured from the Spring Seat Surface to the Top of the Guide	17.32 mm	0.682 in
Intake Manifold		
Surface Flatness - Measured at Gasket Sealing Surfaces and Measured within a 200 mm (7.87 in) Area that Includes Two Runner Port Openings	0.3 mm	0.118 in
Lubrication System		
Oil Capacity - with Filter	5.68 liters	6.0 quarts
Oil Capacity - without Filter	4.73 liters	5.0 quarts
Oil Pressure - Minimum - Hot	41 kPa at 1,000 engine RPM 124 kPa at 2,000 engine RPM 165 kPa at 4,000 engine RPM	6 psig at 1,000 engine RPM 18 psig at 2,000 engine RPM 24 psig at 4,000 engine RPM
Oil Pan		
Front Cover Alignment - at Oil Pan Surface	0.0-0.5 mm	0.0-0.02 in
Rear Cover Alignment - at Oil Pan Surface	0.0-0.5 mm	0.0-0.02 in
Oil Pan Alignment - to Rear of Engine Block at Transmission Bell Housing Mounting Surface	0.0-0.25 mm	0.0-0.01 in

Application	Specification	
	Metric	English
Piston Rings		
Piston Ring End Gap - First Compression Ring - Measured in Cylinder Bore - Production	0.23-0.44 mm	0.009-0.017 in
Piston Ring End Gap - First Compression Ring - Measured in Cylinder Bore - Service	0.23-0.5 mm	0.009-0.0196 in
Piston Ring End Gap - Second Compression Ring - Measured in Cylinder Bore - Production	0.44-0.7 mm	0.017-0.027 in
Piston Ring End Gap - Second Compression Ring - Measured in Cylinder Bore - Service	0.44-0.76 mm	0.0173-0.03 in
Piston Ring End Gap - Oil Control Ring - Measured in Cylinder Bore - Production	0.18-0.75 mm	0.007-0.029 in
Piston Ring End Gap - Oil Control Ring - Measured in Cylinder Bore - Service	0.18-0.81 mm	0.007-0.032 in
Piston Ring to Groove Clearance - First Compression Ring - Production	0.04-0.085 mm	0.00157-0.00335 in
Piston Ring to Groove Clearance - First Compression Ring - Service	0.04-0.085 mm	0.00157-0.00335 in
Piston Ring to Groove Clearance - Second Compression Ring - Production	0.04-0.078 mm	0.00157-0.0031 in
Piston Ring to Groove Clearance - Second Compression Ring - Service	0.04-0.078 mm	0.00157-0.0031 in
Piston Ring to Groove Clearance - Oil Control Ring - Production	0.012-0.2 mm	0.0005-0.0078 in
Piston Ring to Groove Clearance - Oil Control Ring - Service	0.012-0.2 mm	0.0005-0.0078 in
Pistons and Pins		
Pin - Piston Pin Clearance to Piston Pin Bore - Production	0.002-0.01 mm	0.00008-0.0004 in
Pin - Piston Pin Clearance to Piston Pin Bore - Service	0.002-0.015 mm	0.00008-0.0006 in
Pin - Piston Pin Diameter	23.952-23.955 mm	0.943-0.943 in
Pin - Piston Pin Fit in Connecting Rod Bore - Production	0.007-0.02 mm	0.00027-0.00078 in
Pin - Piston Pin Fit in Connecting Rod Bore - Service	0.007-0.022 mm	0.00027-0.00086 in
Piston - Piston Diameter - Measured Over Skirt Coating	96.002-96.036 mm	3.779-3.78 in
Piston - Piston to Bore Clearance - Production	-0.036 to 0.016 mm	-0.0014 to 0.0006 in
Piston - Piston to Bore Clearance - Service Limit with Skirt Coating Worn Off	0.071 mm	0.0028 in
Valve System		
Valves - Valve Face Angle	45 degrees	
Valves - Valve Face Width	1.25 mm	0.05 in
Valves - Valve Lash	Net Lash - No Adjustment	
Valves - Valve Lift - Intake	11.6 mm	0.457 in
Valves - Valve Lift - Exhaust	11.85 mm	0.466 in
Valves - Valve Seat Angle	46 degrees	
Valves - Valve Seat Runout	0.05 mm	0.002 in
Valves - Valve Seat Width - Exhaust	1.78 mm	0.07 in
Valves - Seat Width - Intake	1.02 mm	0.04 in
Valves - Valve Stem Diameter - Production	7.955-7.976 mm	0.313-0.314 in
Valves - Valve Stem Diameter - Service	7.95 mm	0.313 in
Valves - Stem-to-Guide Clearance - Production - Intake	0.025-0.066 mm	0.001-0.0026 in
Valves - Stem-to-Guide Clearance - Service - Intake	0.093 mm	0.0037 in
Valves - Stem-to-Guide Clearance - Production - Exhaust	0.025-0.066 mm	0.001-0.0026 in
Valves - Stem-to-Guide Clearance - Service - Exhaust	0.093 mm	0.0037 in

Application	Specification	
	Metric	English
Rocker Arms - Valve Rocker Arm Ratio	1.70:1	
Valve Springs - Valve Spring Free Length	52.9 mm	2.08 in
Valve Springs - Installed Height	45.75 mm	1.8 in
Valve Springs - Valve Spring Load - Closed	340 N at 45.75 mm	76 lb at 1.8 in
Valve Springs - Valve Spring Load - Open	980 N at 33.55 mm	220 lb at 1.32 in

General Specifications 5.3L

Application	Specification	
	Metric	English
General		
Engine Type	V8	
Displacement	5.3L	325 CID
RPO	LM7	
VIN	T	
Bore	96.0-96.018 mm	3.779-3.78 in
Stroke	92.0 mm	3.622 in
Compression Ratio	9.49:1	
Firing Order	1-8-7-2-6-5-4-3	
Spark Plug Gap	1.02 mm	0.04 in
Block		
Camshaft Bearing Bore 1 and 5 Diameter	59.62-59.67 mm	2.347-2.349 in
Camshaft Bearing Bore 2 and 4 Diameter	59.12-59.17 mm	2.327-2.329 in
Camshaft Bearing Bore 3 Diameter	58.62-58.67 mm	2.307-2.309 in
Crankshaft Main Bearing Bore Diameter	69.871-69.889 mm	2.75-2.751 in
Crankshaft Main Bearing Bore Out-of-Round	0.006 mm	0.0002 in
Cylinder Bore Diameter	96.0-96.018 mm	3.779-3.78 in
Cylinder Head Deck Height - Measuring from the Centerline of Crankshaft to the Deck Face	234.57-234.82 mm	9.235-9.245 in
Cylinder Head Deck Surface Flatness - Measured within a 152.4 mm (6.0 in) Area	0.11 mm	0.004 in
Cylinder Head Deck Surface Flatness - Measuring the Overall Length of the Block Deck	0.22 mm	0.008 in
Valve Lifter Bore Diameter	21.417-21.443 mm	0.843-0.844 in
Camshaft		
Camshaft End Play	0.025-0.305 mm	0.001-0.012 in
Camshaft Journal Diameter	54.99-55.04 mm	2.164-2.166 in
Camshaft Journal Out-of-Round	0.025 mm	0.001 in
Camshaft Lobe Lift - Exhaust	6.96 mm	0.274 in
Camshaft Lobe Lift - Intake	6.82 mm	0.268 in
Camshaft Runout - Measured at the Intermediate Journals	0.05 mm	0.002 in
Connecting Rod		
Connecting Rod Bearing Clearance - Production	0.023-0.065 mm	0.0009-0.0025 in
Connecting Rod Bearing Clearance - Service	0.023-0.076 mm	0.0009-0.003 in
Connecting Rod Bore Diameter - Bearing End	56.505-56.525 mm	2.224-2.225 in
Connecting Rod Bore Out-of-Round - Bearing End - Production	0.004-0.008 mm	0.00015-0.0003 in
Connecting Rod Bore Out-of-Round - Bearing End - Service	0.004-0.008 mm	0.00015-0.0003 in
Connecting Rod Side Clearance	0.11-0.51 mm	0.00433-0.02 in

Application	Specification	
	Metric	English
Crankshaft		
Connecting Rod Journal Diameter - Production	53.318-53.338 mm	2.0991-2.0999 in
Connecting Rod Journal Diameter - Service	53.308 mm	2.0987 in
Connecting Rod Journal Out-of-Round - Production	0.005 mm	0.0002 in
Connecting Rod Journal Out-of-Round - Service	0.01 mm	0.0004 in
Connecting Rod Journal Taper - Maximum for 1/2 of Journal Length - Production	0.005 mm	0.0002 in
Connecting Rod Journal Taper - Maximum for 1/2 of Journal Length - Service	0.02 mm	0.00078 in
Crankshaft End Play	0.04-0.2 mm	0.0015-0.0078 in
Crankshaft Main Bearing Clearance - Production	0.02-0.052 mm	0.0008-0.0021 in
Crankshaft Main Bearing Clearance - Service	0.02-0.065 mm	0.0008-0.0025 in
Crankshaft Main Journal Diameter - Production	64.992-65.008 mm	2.558-2.559 in
Crankshaft Main Journal Diameter - Service	64.992 mm	2.558 in
Crankshaft Main Journal Out-of-Round - Production	0.003 mm	0.000118 in
Crankshaft Main Journal Out-of-Round - Service	0.008 mm	0.0003 in
Crankshaft Main Journal Taper - Production	0.01 mm	0.0004 in
Crankshaft Main Journal Taper - Service	0.02 mm	0.00078 in
Crankshaft Rear Flange Runout	0.05 mm	0.002 in
Crankshaft Reluctor Ring Runout - Measured 1.0 mm (0.04 in) Below Tooth Diameter	0.7 mm	0.028 in
Crankshaft Thrust Surface - Production	26.14-26.22 mm	1.029-1.0315 in
Crankshaft Thrust Surface - Service	26.22 mm	1.0315 in
Crankshaft Thrust Surface Runout	0.025 mm	0.001 in
Cylinder Head		
Cylinder Head Height/Thickness - Measured from the Cylinder Head Deck to the Valve Rocker Arm Cover Seal Surface	120.2 mm	4.732 in
Surface Flatness - Block Deck - Measured within a 152.4 mm (6.0 in) Area	0.08 mm	0.003 in
Surface Flatness - Block Deck - Measuring the Overall Length of the Cylinder Head	0.1 mm	0.004 in
Surface Flatness - Exhaust Manifold Deck	0.13 mm	0.005 in
Surface Flatness - Intake Manifold Deck	0.08 mm	0.0031 in
Valve Guide Installed Height - Measured from the Spring Seat Surface to the Top of the Guide	17.32 mm	0.682 in
Intake Manifold		
Surface Flatness - Measured at Gasket Sealing Surfaces and Measured within a 200 mm (7.87 in) Area that Includes Two Runner Port Openings	0.3 mm	0.118 in
Lubrication System		
Oil Capacity - with Filter	5.68 liters	6.0 quarts
Oil Capacity - without Filter	4.73 liters	5.0 quarts
Oil Pressure - Minimum - Hot	41 kPa at 1,000 engine RPM 124 kPa at 2,000 engine RPM 165 kPa at 4,000 engine RPM	6 psig at 1,000 engine RPM 18 psig at 2,000 engine RPM 24 psig at 4,000 engine RPM

Application	Specification	
	Metric	English
Oil Pan		
Front Cover Alignment - at Oil Pan Surface	0.0-0.5 mm	0.0-0.02 in
Rear Cover Alignment - at Oil Pan Surface	0.0-0.5 mm	0.0-0.02 in
Oil Pan Alignment - to Rear of Engine Block at Transmission Bell Housing Mounting Surface	0.0-0.25 mm	0.0-0.01 in
Piston Rings		
Piston Ring End Gap - First Compression Ring - Measured in Cylinder Bore - Production	0.23-0.44 mm	0.009-0.017 in
Piston Ring End Gap - First Compression Ring - Measured in Cylinder Bore - Service	0.23-0.5 mm	0.009-0.0196 in
Piston Ring End Gap - Second Compression Ring - Measured in Cylinder Bore - Production	0.44-0.7 mm	0.017-0.027 in
Piston Ring End Gap - Second Compression Ring - Measured in Cylinder Bore - Service	0.44-0.76 mm	0.0173-0.03 in
Piston Ring End Gap - Oil Control Ring - Measured in Cylinder Bore - Production	0.18-0.75 mm	0.007-0.029 in
Piston Ring End Gap - Oil Control Ring - Measured in Cylinder Bore - Service	0.18-0.81 mm	0.007-0.032 in
Piston Ring to Groove Clearance - First Compression Ring - Production	0.04-0.085 mm	0.00157-0.00335 in
Piston Ring to Groove Clearance - First Compression Ring - Service	0.04-0.085 mm	0.00157-0.00335 in
Piston Ring to Groove Clearance - Second Compression Ring - Production	0.04-0.078 mm	0.00157-0.0031 in
Piston Ring to Groove Clearance - Second Compression Ring - Service	0.04-0.078 mm	0.00157-0.0031 in
Piston Ring to Groove Clearance - Oil Control Ring - Production	0.012-0.2 mm	0.0005-0.0078 in
Piston Ring to Groove Clearance - Oil Control Ring - Service	0.012-0.2 mm	0.0005-0.0078 in
Pistons and Pins		
Pin - Piston Pin Clearance to Piston Pin Bore - Production	0.002-0.01 mm	0.00008-0.0004 in
Pin - Piston Pin Clearance to Piston Pin Bore - Service	0.002-0.015 mm	0.00008-0.0006 in
Pin - Piston Pin Diameter	23.952-23.955 mm	0.943-0.943 in
Pin - Piston Pin Fit in Connecting Rod Bore - Production	0.007-0.02 mm	0.00027-0.00078 in
Pin - Piston Pin Fit in Connecting Rod Bore - Service	0.007-0.022 mm	0.00027-0.00086 in
Piston - Piston Diameter - Measured Over Skirt Coating	96.002-96.036 mm	3.779-3.78 in
Piston - Piston to Bore Clearance - Production	-0.036 to 0.016 mm	-0.0014 to 0.0006 in
Piston - Piston to Bore Clearance - Service Limit with Skirt Coating Worn Off	0.071 mm	0.0028 in
Valve System		
Valves - Valve Face Angle	45 degrees	
Valves - Valve Face Width	1.25 mm	0.05 in
Valves - Valve Lash	Net Lash - No Adjustment	
Valves - Valve Lift - Intake	11.6 mm	0.457 in
Valves - Valve Lift - Exhaust	11.85 mm	0.466 in
Valves - Valve Seat Angle	46 degrees	
Valves - Valve Seat Runout	0.05 mm	0.002 in
Valves - Valve Seat Width - Exhaust	1.78 mm	0.07 in
Valves - Seat Width - Intake	1.02 mm	0.04 in

Application	Specification	
	Metric	English
Connecting Rod		
Connecting Rod Bearing Clearance - Production	0.023-0.065 mm	0.0009-0.0025 in
Connecting Rod Bearing Clearance - Service	0.023-0.076 mm	0.0009-0.003 in
Connecting Rod Bore Diameter - Bearing End	56.505-56.525 mm	2.224-2.225 in
Connecting Rod Bore Out-of-Round - Bearing End - Production	0.006 mm	0.0002 in
Connecting Rod Bore Out-of-Round - Bearing End - Service	0.006 mm	0.0002 in
Connecting Rod Side Clearance	0.11-0.51 mm	0.00433-0.02 in
Crankshaft		
Connecting Rod Journal Diameter - Production	53.318-53.338 mm	2.0991-2.0999 in
Connecting Rod Journal Diameter - Service	53.308 mm	2.0987 in
Connecting Rod Journal Out-of-Round - Production	0.005 mm	0.0002 in
Connecting Rod Journal Out-of-Round - Service	0.01 mm	0.0004 in
Connecting Rod Journal Taper - Maximum for 1/2 of Journal Length - Production	0.005 mm	0.0002 in
Connecting Rod Journal Taper - Maximum for 1/2 of Journal Length - Service	0.02 mm	0.00078 in
Crankshaft End Play	0.04-0.2 mm	0.0015-0.0078 in
Crankshaft Main Bearing Clearance - Production	0.02-0.052 mm	0.0008-0.0021 in
Crankshaft Main Bearing Clearance - Service	0.02-0.065 mm	0.0008-0.0025 in
Crankshaft Main Journal Diameter - Production	64.992-65.008 mm	2.558-2.559 in
Crankshaft Main Journal Diameter - Service	64.992 mm	2.558 in
Crankshaft Main Journal Out-of-Round - Production	0.003 mm	0.000118 in
Crankshaft Main Journal Out-of-Round - Service	0.008 mm	0.0003 in
Crankshaft Main Journal Taper - Production	0.01 mm	0.0004 in
Crankshaft Main Journal Taper - Service	0.02 mm	0.00078 in
Crankshaft Rear Flange Runout	0.05 mm	0.002 in
Crankshaft Reluctor Ring Runout - Measured 1.0 mm (0.04 in) Below Tooth Diameter	0.7 mm	0.028 in
Crankshaft Thrust Surface - Production	26.14-26.22 mm	1.029-1.0315 in
Crankshaft Thrust Surface - Service	26.22 mm	1.0315 in
Crankshaft Thrust Surface Runout	0.025 mm	0.001 in
Cylinder Head		
Cylinder Head Height/Thickness - Measured from the Cylinder Head Deck to the Valve Rocker Arm Cover Seal Surface	120.2 mm	4.732 in
Surface Flatness - Block Deck - Measured within a 152.4 mm (6.0 in) Area	0.08 mm	0.003 in
Surface Flatness - Block Deck - Measuring the Overall Length of the Cylinder Head	0.1 mm	0.004 in
Surface Flatness - Exhaust Manifold Deck	0.13 mm	0.005 in
Surface Flatness - Intake Manifold Deck	0.08 mm	0.0031 in
Valve Guide Installed Height - Measured from the Spring Seat Surface to the Top of the Guide	17.32 mm	0.682 in
Intake Manifold		
Surface Flatness - Measured at Gasket Sealing Surfaces and Measured within a 200 mm (7.87 in) Area that Includes Two Runner Port Openings	0.3 mm	0.118 in

Application	Specification	
	Metric	English
Valves - Valve Stem Diameter - Production	7.955-7.976 mm	0.313-0.314 in
Valves - Valve Stem Diameter - Service	7.95 mm	0.313 in
Valves - Valve Stem-to-Guide Clearance - Production - Intake	0.025-0.066 mm	0.001-0.0026 in
Valves - Valve Stem-to-Guide Clearance - Service - Intake	0.093 mm	0.0037 in
Valves - Valve Stem-to-Guide Clearance - Production - Exhaust	0.025-0.066 mm	0.001-0.0026 in
Valves - Valve Stem-to-Guide Clearance - Service - Exhaust	0.093 mm	0.0037 in
Rocker Arms - Valve Rocker Arm Ratio	1.70:1	
Valve Springs - Valve Spring Free Length	52.9 mm	2.08 in
Valve Springs - Valve Spring Installed Height	45.75 mm	1.8 in
Valve Springs - Valve Spring Load - Closed	340 N at 45.75 mm	76 lb at 1.8 in
Valve Springs - Valve Spring Load - Open	980 N at 33.55 mm	220 lb at 1.32 in

General Specifications 6.0L

Application	Specification	
	Metric	English
General		
Engine Type	V8	
Displacement	6.0L	364 CID
RPO	LQ4	
VIN	U	
Bore	101.618-101.636 mm	4.0007-4.0014 in
Stroke	92.0 mm	3.622 in
Compression Ratio	9.41:1	
Firing Order	1-8-7-2-6-5-4-3	
Spark Plug Gap	1.02 mm	0.04 in
Block		
Camshaft Bearing Bore 1 and 5 Diameter	59.62-59.67 mm	2.347-2.349 in
Camshaft Bearing Bore 2 and 4 Diameter	59.12-59.17 mm	2.327-2.329 in
Camshaft Bearing Bore 3 Diameter	58.62-58.67 mm	2.307-2.309 in
Crankshaft Main Bearing Bore Diameter	69.871-69.889 mm	2.75-2.751 in
Crankshaft Main Bearing Bore Out-of-Round	0.006 mm	0.0002 in
Cylinder Bore Diameter	101.618-101.636 mm	4.0007-4.0017 in
Cylinder Head Deck Height - Measuring from the Centerline of Crankshaft to the Deck Face	234.57-234.82 mm	9.235-9.245 in
Cylinder Head Deck Surface Flatness - Measured within a 152.4 mm (6.0 in) Area	0.11 mm	0.004 in
Cylinder Head Deck Surface Flatness - Measuring the Overall Length of the Block Deck	0.22 mm	0.008 in
Valve Lifter Bore Diameter	21.417-21.443 mm	0.843-0.844 in
Camshaft		
Camshaft End Play	0.025-0.305 mm	0.001-0.012 in
Camshaft Journal Diameter	54.99-55.04 mm	2.164-2.166 in
Camshaft Journal Out-of-Round	0.025 mm	0.001 in
Camshaft Lobe Lift - Exhaust	7.13 mm	0.281 in
Camshaft Lobe Lift - Intake	6.96 mm	0.274 in
Camshaft Runout - Measured at the Intermediate Journals	0.05 mm	0.002 in

Application	Specification	
	Metric	English
Lubrication System		
Oil Capacity - with Filter	5.68 liters	6.0 quarts
Oil Capacity - without Filter	4.73 liters	5.0 quarts
Oil Pressure - Minimum - Hot	41 kPa at 1,000 engine RPM 124 kPa at 2,000 engine RPM 165 kPa at 4,000 engine RPM	6 psig at 1,000 engine RPM 18 psig at 2,000 engine RPM 24 psig at 4,000 engine RPM
Oil Pan		
Front Cover Alignment - at Oil Pan Surface	0.0-0.5 mm	0.0-0.02 in
Rear Cover Alignment - at Oil Pan Surface	0.0-0.5 mm	0.0-0.02 in
Oil Pan Alignment - to Rear of Engine Block at Transmission Bell Housing Mounting Surface	0.0-0.25 mm	0.0-0.01 in
Piston Rings		
Piston Ring End Gap - First Compression Ring - Measured in Cylinder Bore - Production	0.31-0.52 mm	0.012-0.02 in
Piston Ring End Gap - First Compression Ring - Measured in Cylinder Bore - Service	0.31-0.59 mm	0.0122-0.023 in
Piston Ring End Gap - Second Compression Ring - Measured in Cylinder Bore - Production	0.51-0.77 mm	0.02-0.03 in
Piston Ring End Gap - Second Compression Ring - Measured in Cylinder Bore - Service	0.51-0.84 mm	0.02-0.033 in
Piston Ring End Gap - Oil Control Ring - Measured in Cylinder Bore - Production	0.31-0.87 mm	0.0122-0.034 in
Piston Ring End Gap - Oil Control Ring - Measured in Cylinder Bore - Service	0.31-0.94 mm	0.0122-0.037 in
Piston Ring to Groove Clearance - First Compression Ring - Production	0.04-0.08 mm	0.00157-0.0031 in
Piston Ring to Groove Clearance - First Compression Ring - Service	0.04-0.08 mm	0.00157-0.0031 in
Piston Ring to Groove Clearance - Second Compression Ring - Production	0.039-0.079 mm	0.0015-0.0031 in
Piston Ring to Groove Clearance - Second Compression Ring - Service	0.039-0.079 mm	0.0015-0.0031 in
Piston Ring to Groove Clearance - Oil Control Ring - Production	0.015-0.199 mm	0.0006-0.0078 in
Piston Ring to Groove Clearance - Oil Control Ring - Service	0.015-0.199 mm	0.0006-0.0078 in
Pistons and Pins		
Pin - Piston Pin Clearance to Piston Pin Bore - Production	0.002-0.01 mm	0.00008-0.0004 in
Pin - Piston Pin Clearance to Piston Pin Bore - Service	0.002-0.015 mm	0.00008-0.0006 in
Pin - Piston Pin Diameter	23.952-23.955 mm	0.943-0.943 in
Pin - Piston Pin Fit in Connecting Rod Bore - Production	0.007-0.02 mm	0.00027-0.00078 in
Pin - Piston Pin Fit in Connecting Rod Bore - Service	0.007-0.022 mm	0.00027-0.00086 in
Piston - Piston Diameter - Measured Over Skirt Coating	101.606-101.640 mm	4.0002-4.0016 in
Piston - Piston to Bore Clearance - Production	0.022-0.03 mm - interference	0.0009-0.0012 in - interference

Application	Specification	
	Metric	English
Piston - Piston to Bore Clearance - Service Limit with Skirt Coating Worn Off	0.07 mm	0.0028 in
Valve System		
Valves - Valve Face Angle	45 degrees	
Valves - Valve Face Width	1.25 mm	0.05 in
Valves - Valve Lash	Net Lash - No Adjustment	
Valves - Valve Lift - Intake	11.79 mm	0.464 in
Valves - Valve Lift - Exhaust	12.16 mm	0.479 in
Valves - Valve Seat Angle	46 degrees	
Valves - Valve Seat Runout	0.05 mm	0.002 in
Valves - Valve Seat Width - Exhaust	1.78 mm	0.07 in
Valves - Valve Seat Width - Intake	1.02 mm	0.04 in
Valves - Valve Stem Diameter - Production	7.955-7.976 mm	0.313-0.314 in
Valves - Valve Stem Diameter - Service	7.95 mm	0.313 in
Valves - Valve Stem-to-Guide Clearance - Production - Intake	0.025-0.066 mm	0.001-0.0026 in
Valves - Valve Stem-to-Guide Clearance - Service - Intake	0.093 mm	0.0037 in
Valves - Valve Stem-to-Guide Clearance - Production - Exhaust	0.025-0.066 mm	0.001-0.0026 in
Valves - Valve Stem-to-Guide Clearance - Service - Exhaust	0.093 mm	0.0037 in
Rocker Arms - Valve Rocker Arm Ratio	1.70:1	
Valve Springs - Valve Spring Free Length	52.9 mm	2.08 in
Valve Springs - Valve Spring Installed Height	45.75 mm	1.8 in
Valve Springs - Valve Spring Load - Closed	340 N at 45.75 mm	76 lb at 1.8 in
Valve Springs - Valve Spring Load - Open	980 N at 33.55 mm	220 lb at 1.32 in

Fastener Tightening Specifications 4.8, 5.3L & 6.0L

Application	Specification	
	Metric	English
Accelerator Control Cable Bracket Bolts	10 N·m	89 lb in
Air Cleaner Outlet Duct Clamp Screws	7 N·m	62 lb in
Air Conditioning (A/C) Belt Tensioner Bolt	50 N·m	37 lb ft
Automatic Transmission Bolt/Stud	50 N·m	37 lb ft
Battery Cable Channel Bolt	12 N·m	106 lb in
Camshaft Retainer Bolts	25 N·m	18 lb ft
Camshaft Sensor Bolt	25 N·m	18 lb ft
Camshaft Sprocket Bolts	35 N·m	26 lb ft
Connecting Rod Bolts - First Pass	20 N·m	15 lb ft
Connecting Rod Bolts - Final Pass	75 degrees	
Coolant Temperature Sensor	20 N·m	15 lb ft
Crankshaft Balancer Bolt - Installation Pass - to Ensure the Balancer is Completely Installed	330 N·m	240 lb ft
Crankshaft Balancer Bolt - First Pass - Install a NEW Bolt After the Installation Pass and Tighten as Described in the First and Final Passes	50 N·m	37 lb ft
Crankshaft Balancer Bolt - Final Pass	140 degrees	
Crankshaft Bearing Cap Bolts - Inner Bolts - First Pass in Sequence	20 N·m	15 lb ft
Crankshaft Bearing Cap Bolts - Inner Bolts - Final Pass in Sequence	80 degrees	
Crankshaft Bearing Cap Bolts - Outer Bolts - First Pass in Sequence	20 N·m	15 lb ft
Crankshaft Bearing Cap Bolts - Outer Bolts - Final Pass in Sequence	51 degrees	
Crankshaft Bearing Cap Side Bolts	25 N·m	18 lb ft

Application	Specification	
	Metric	English
Crankshaft Oil Deflector Nuts	25 N·m	18 lb ft
Crankshaft Position Sensor Bolt	25 N·m	18 lb ft
Crossbar Bolts.	100 N·m	78 lb ft
Cylinder Head Bolts - First Pass all M11 Bolts in Sequence	30 N·m	22 lb ft
Cylinder Head Bolts - Second Pass all M11 Bolts in Sequence	90 degrees	
Cylinder Head Bolts - Final Pass all M11 Bolts in Sequence	70 degrees	
Cylinder Head Bolts - M8 Inner Bolts in Sequence	30 N·m	22 lb ft
Cylinder Head Coolant Plug	20 N·m	15 lb ft
Drive Belt Idler Pulley Bolt	50 N·m	73 lb ft
Engine Block Coolant Drain Plugs	60 N·m	44 lb ft
Engine Block Coolant Heater	50 N·m	37 lb ft
Engine Block Oil Gallery Plugs	60 N·m	44 lb ft
Engine Block Wire Harness Rear Ground Bolt	16 N·m	12 lb ft
Engine Coolant Air Bleed Pipe and Cover Bolts	12 N·m	106 lb in
Engine Flywheel Bolts - First Pass	20 N·m	15 lb ft
Engine Flywheel Bolts - Second Pass	50 N·m	37 lb ft
Engine Flywheel Bolts - Final Pass	100 N·m	74 lb ft
Engine Front Cover Bolts	25 N·m	18 lb ft
Engine Mount-to-Engine Bolts	50 N·m	37 lb ft
Engine Mount-to-Frame Bracket Bolts	60 N·m	44 lb ft
Engine Rear Cover Bolts	25 N·m	18 lb ft
Engine Service Lift Bracket M10 Bolts	50 N·m	37 lb ft
Engine Service Lift Bracket M8 Bolt	25 N·m	18 lb ft
Engine Valley Cover Bolts	25 N·m	18 lb ft
Evaporative Emission (EVAP) Purge Solenoid Bolt	10 N·m	89 lb in
Exhaust Manifold Bolts - First Pass	15 N·m	11 lb ft
Exhaust Manifold Bolts - Final Pass	25 N·m	18 lb ft
Exhaust Manifold Heat Shield Bolts	9 N·m	80 lb in
Fuel Rail Bolts	10 N·m	89 lb in
Fuel Rail Crossover Tube Bolts	3.8 N·m	34 lb in
Fuel Rail Stop Bracket Bolt	50 N·m	37 lb ft
Generator Bolt	50 N·m	37 lb ft
Generator Bracket Bolts	50 N·m	37 lb ft
Generator Output Terminal Nut	9 N·m	80 lb in
Ignition Coil-to-Bracket Bolts	10 N·m	89 lb in
Ignition Coil Bracket-to-Valve Rocker Arm Cover Bolts	12 N·m	106 lb in
Intake Manifold Bolts - First Pass in Sequence	5 N·m	44 lb in
Intake Manifold Bolts - Final Pass in Sequence	10 N·m	89 lb in
Intake Manifold Wiring Harness Stud	10 N·m	89 lb in
Knock Sensors	20 N·m	15 lb ft
Oil Filter	30 N·m	22 lb ft
Oil Filter Fitting	55 N·m	40 lb ft
Oil Level Indicator Tube Bolt	25 N·m	18 lb ft
Oil Level Indicator Tube Nut - Automatic Transmission	18 N·m	13 lb ft
Oil Level Sensor	13 N·m	115 lb in
Oil Pan Baffle Bolts	12 N·m	106 lb in
Oil Pan Closeout Cover Bolt - Left Side	12 N·m	106 lb in
Oil Pan Closeout Cover Bolt - Right Side	12 N·m	106 lb in
Oil Pan Cover Bolts	12 N·m	106 lb in
Oil Pan Drain Plug	25 N·m	18 lb ft
Oil Pan M8 Bolts - Oil Pan-to-Engine Block and Oil Pan-to-Front Cover	25 N·m	18 lb ft

Application	Specification	
	Metric	English
Oil Pan M6 Bolts - Oil Pan-to-Rear Cover	12 N·m	106 lb in
Oil Pressure Sensor	20 N·m	15 lb ft
Oil Pump-to-Engine Block Bolts	25 N·m	18 lb ft
Oil Pump Cover Bolts	12 N·m	106 lb in
Oil Pump Relief Valve Plug	12 N·m	106 lb in
Oil Pump Screen Nuts	25 N·m	18 lb ft
Oil Pump Screen-to-Oil Pump Bolt	12 N·m	106 lb in
Positive Battery Cable Clip Bolt	9 N·m	80 lb in
Power Steering Pump Rear Bolt	50 N·m	37 lb ft
Spark Plugs - New Cylinder Heads	20 N·m	15 lb ft
Spark Plugs - All Subsequent Installations	15 N·m	11 lb ft
Throttle Body Nuts	10 N·m	89 lb in
Throttle Body Studs	6 N·m	53 lb in
Torque Converter Bolts	63 N·m	47 lb ft
Transmission Cover Bolt	12 N·m	106 lb in
Valve Lifter Guide Bolts	12 N·m	106 lb in
Valve Rocker Arm Bolts	30 N·m	22 lb ft
Valve Rocker Arm Cover Bolts	12 N·m	106 lb in
Water Inlet Housing Bolts	15 N·m	11 lb ft
Water Pump Bolts - First Pass	15 N·m	11 lb ft
Water Pump Bolts - Final Pass	30 N·m	22 lb ft
Wire Harness Ground Bolt	25 N·m	18 lb ft

Application	Specification	
	Metric	English
Crankshaft Oil Deflector Nuts	25 N·m	18 lb ft
Crankshaft Position Sensor Bolt	25 N·m	18 lb ft
Crossbar Bolts	100 N·m	78 lb ft
Cylinder Head Bolts - First Pass all M11 Bolts in Sequence	30 N·m	22 lb ft
Cylinder Head Bolts - Second Pass all M11 Bolts in Sequence	90 degrees	
Cylinder Head Bolts - Final Pass all M11 Bolts in Sequence	70 degrees	
Cylinder Head Bolts - M8 Inner Bolts in Sequence	30 N·m	22 lb ft
Cylinder Head Coolant Plug	20 N·m	15 lb ft
Drive Belt Idler Pulley Bolt	50 N·m	73 lb ft
Engine Block Coolant Drain Plugs	60 N·m	44 lb ft
Engine Block Coolant Heater	50 N·m	37 lb ft
Engine Block Oil Gallery Plugs	60 N·m	44 lb ft
Engine Block Wire Harness Rear Ground Bolt	16 N·m	12 lb ft
Engine Coolant Air Bleed Pipe and Cover Bolts	12 N·m	106 lb in
Engine Flywheel Bolts - First Pass	20 N·m	15 lb ft
Engine Flywheel Bolts - Second Pass	50 N·m	37 lb ft
Engine Flywheel Bolts - Final Pass	100 N·m	74 lb ft
Engine Front Cover Bolts	25 N·m	18 lb ft
Engine Mount-to-Engine Bolts	50 N·m	37 lb ft
Engine Mount-to-Frame Bracket Bolts	60 N·m	44 lb ft
Engine Rear Cover Bolts	25 N·m	18 lb ft
Engine Service Lift Bracket M10 Bolts	50 N·m	37 lb ft
Engine Service Lift Bracket M8 Bolt	25 N·m	18 lb ft
Engine Valley Cover Bolts	25 N·m	18 lb ft
Evaporative Emission (EVAP) Purge Solenoid Bolt	10 N·m	89 lb in
Exhaust Manifold Bolts - First Pass	15 N·m	11 lb ft
Exhaust Manifold Bolts - Final Pass	25 N·m	18 lb ft
Exhaust Manifold Heat Shield Bolts	9 N·m	80 lb in
Fuel Rail Bolts	10 N·m	89 lb in
Fuel Rail Crossover Tube Bolts	3.8 N·m	34 lb in
Fuel Rail Stop Bracket Bolt	50 N·m	37 lb ft
Generator Bolt	50 N·m	37 lb ft
Generator Bracket Bolts	50 N·m	37 lb ft
Generator Output Terminal Nut	9 N·m	80 lb in
Ignition Coil-to-Bracket Bolts	10 N·m	89 lb in
Ignition Coil Bracket-to-Valve Rocker Arm Cover Bolts	12 N·m	106 lb in
Intake Manifold Bolts - First Pass in Sequence	5 N·m	44 lb in
Intake Manifold Bolts - Final Pass in Sequence	10 N·m	89 lb in
Intake Manifold Wiring Harness Stud	10 N·m	89 lb in
Knock Sensors	20 N·m	15 lb ft
Oil Filter	30 N·m	22 lb ft
Oil Filter Fitting	55 N·m	40 lb ft
Oil Level Indicator Tube Bolt	25 N·m	18 lb ft
Oil Level Indicator Tube Nut - Automatic Transmission	18 N·m	13 lb ft
Oil Level Sensor	13 N·m	115 lb in
Oil Pan Baffle Bolts	12 N·m	106 lb in
Oil Pan Closeout Cover Bolt - Left Side	12 N·m	106 lb in
Oil Pan Closeout Cover Bolt - Right Side	12 N·m	106 lb in
Oil Pan Cover Bolts	12 N·m	106 lb in
Oil Pan Drain Plug	25 N·m	18 lb ft
Oil Pan M8 Bolts - Oil Pan-to-Engine Block and Oil Pan-to-Front Cover	25 N·m	18 lb ft

Cylinder Heads

The cylinder heads are cast aluminum and have pressed in place powdered metal valve guides and valve seats. Passages for the engine coolant air bleed system are at the front of each cylinder head. The valve rocker arm covers are retained to the cylinder head by four center mounted rocker arm cover bolts.

Engine Block

The engine block is a cam-in-block deep skirt 90 degree V configuration with five crankshaft bearing caps. The engine block is cast iron. The five crankshaft bearing caps each have four vertical M10 and two horizontal M8 mounting bolts. The camshaft is supported by five camshaft bearings pressed into the block. First design engine blocks have different drill and tap depths using both medium length 100 mm (3.94 in) and long 155 mm (6.1 in) M11 cylinder head bolts. Second design engine blocks use only the medium length 100 mm (3.94 in) bolt with a common drill and tap depth.

Exhaust Manifolds

The exhaust manifolds are a one piece cast iron design. The exhaust manifolds direct exhaust gasses from the combustion chambers to the exhaust system. Each manifold also has an externally mounted heat shield that is retained by bolts.

Intake Manifold

The intake manifold is a one piece composite design that incorporates brass threaded inserts for mounting the fuel rail, throttle cable bracket, throttle body, evaporative emission (EVAP) solenoid and wire harness stud. Each side of the intake manifold is sealed to the cylinder head by a nonreusable silicone sealing gasket and nylon carrier assembly. The cable actuated throttle body bolts to the front of the intake manifold. The throttle body is sealed by a one piece push in place silicone gasket. The fuel rail assembly with eight separate fuel injectors is retained to the intake by four bolts. The injectors are seated into their individual manifold bores with O-ring seals to provide sealing. A fuel rail stop bracket is retained to the rear of the left cylinder head by a mounting bolt. The manifold absolute pressure (MAP) sensor is installed and retained to the top rear of the intake manifold and sealed by an O-ring seal. The EVAP solenoid is mounted to the top front of the intake manifold and retained by one bolt. There are no coolant passages within the intake manifold.

Oil Pan

The structural oil pan is cast aluminum. Incorporated into the design are the oil filter mounting boss, drain plug opening, oil level sensor mounting bore, and oil pan baffle. The oil pan transfer cover and oil level sensor mount to the sides of the oil pan. The alignment of the structural oil pan to the rear of the engine block and transmission bell housing is critical.

Piston and Connecting Rod Assembly

The pistons are cast aluminum. The pistons use 2 compression rings and a 3-piece oil control ring assembly. The piston is a low friction, lightweight design with a barrel shaped skirt. All applications use pistons with graphite-coated skirts. The piston pins are chromium steel. First design applications use a piston pin that is floating fit to the piston and press fit to the connecting rod. Second design applications use a pin that is full-floating to both the piston and connecting rod. The connecting rods are powdered metal. The connecting rods are fractured at the connecting rod journal and then machined for the proper clearance. The first design piston, pin, and connecting rod are to be serviced as an assembly.

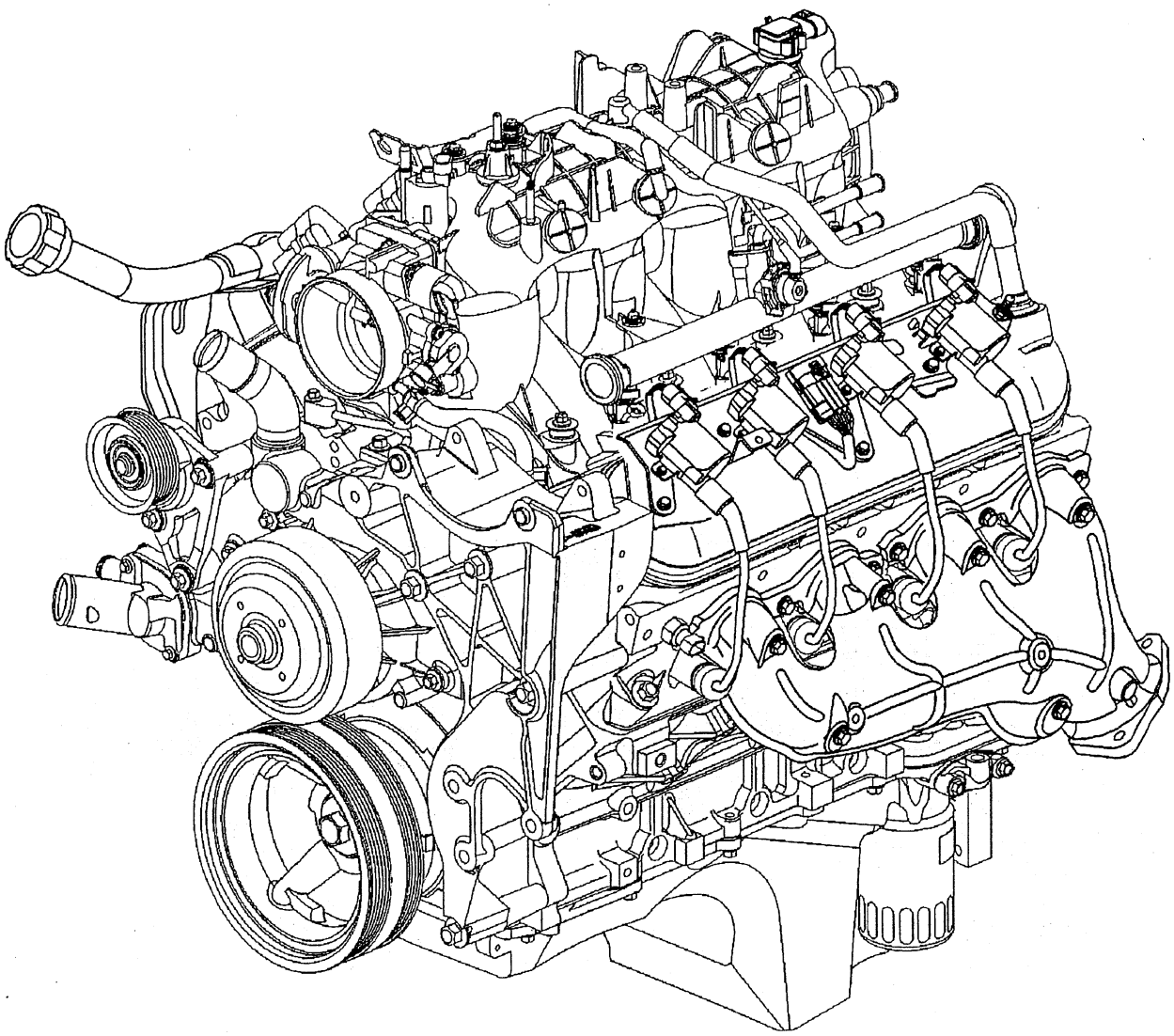
Valve Rocker Arm Cover Assemblies

The valve rocker arm covers are cast aluminum and use a pre-molded silicon gasket for sealing. Mounted to each rocker cover are the coil and bracket assemblies. Incorporated into the left cover is the positive crankcase ventilation (PCV) system passage. Incorporated into the right cover is the oil fill tube and engine fresh air passage.

Valve Train

Motion is transmitted from the camshaft through the hydraulic roller valve lifters and tubular pushrods to the roller type rocker arms. The nylon valve lifter guides position and retain the valve lifters. The valve

Engine Component Description



Camshaft and Drive System

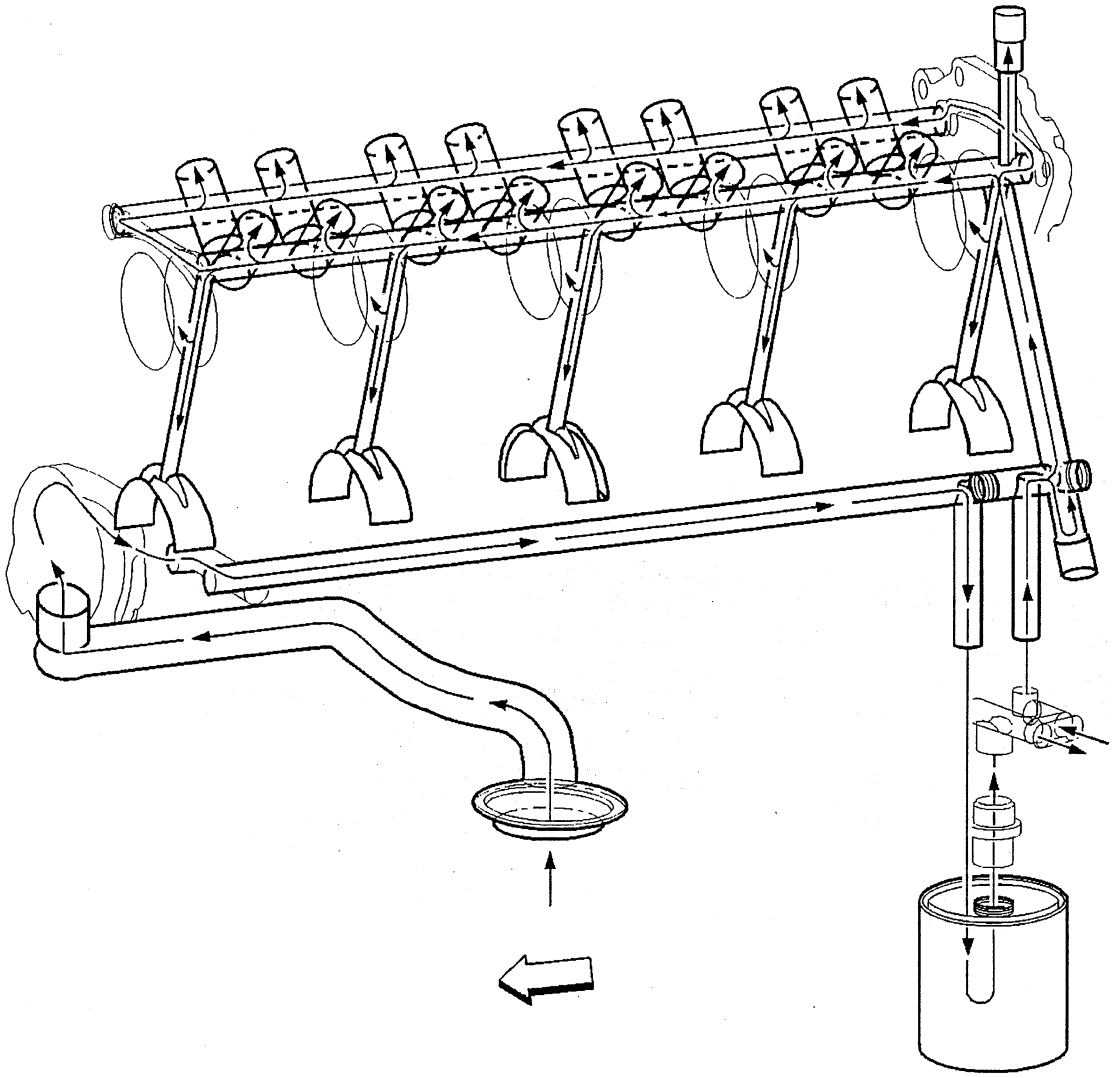
A billet steel one piece camshaft is supported by five bearings pressed into the engine block. The camshaft has a machined camshaft sensor reluctor ring incorporated between the fourth and fifth bearing journals. The camshaft timing sprocket is mounted to the front of the camshaft and is driven by the crankshaft sprocket through the camshaft timing chain. The splined crankshaft sprocket is positioned to the crankshaft by a key and keyway. The crankshaft sprocket splines drive the oil pump driven gear. A retaining plate mounted to the front of the engine block maintains camshaft location.

Crankshaft

The crankshaft is cast nodular iron. The crankshaft is supported by five crankshaft bearings. The bearings are retained by crankshaft bearing caps which are machined with the engine block for proper alignment and clearance. The crankshaft journals are undercut and rolled. The center main journal is the thrust journal. A crankshaft position reluctor ring is press fit mounted at the rear of the crankshaft. The reluctor ring is not serviceable separately. All crankshafts will have a short rear flange, at the crankshaft rear oil seal area. Certain 4.8L and 6.0L applications require a spacer between the rear of the crankshaft and the flywheel for proper flywheel positioning. Longer bolts are required in applications using the spacer.

rocker arms for each bank of cylinders are mounted on pedestals, pivot supports. Each rocker arm is retained on the pivot support and cylinder head by a bolt. Valve lash is net build.

Lubrication



Engine lubrication is supplied by a gerotor type oil pump assembly. The pump is mounted on the front of the engine block and driven directly by the crankshaft sprocket. The pump gears rotate and draw oil from the oil pan sump through a pick-up screen and pipe. The oil is pressurized as it passes through the pump and is sent through the engine block oil galleries. Contained within the oil pump assembly is a pressure relief valve that maintains oil pressure within a specified range. Pressurized oil is directed through the lower gallery to the full flow oil filter where harmful contaminants are removed. A bypass valve is incorporated into the oil pan, at the oil filter boss, which will permit oil flow in the event the filter becomes restricted. At the rear of the block, oil is then directed to the upper main oil galleries which are drilled just above the camshaft assembly. From there oil is then directed to the crankshaft and camshaft bearings. Oil that has entered the upper main oil galleries also pressurizes the valve lifter assemblies and is then pumped through the pushrods to lubricate the valve rocker arms and valve stems. Oil returning to the pan is directed by the crankshaft oil deflector. Oil pressure and crankcase level are each monitored by individual sensors.

An external oil cooler is available on certain applications, all 6.0L. Oil is directed from the oil pump, through the lower main oil gallery to the full flow oil filter. Oil is then directed through the oil pan outlet oil gallery, located in the left rear of the oil pan, and to the external oil cooler via a hose assembly. Oil flows through the oil cooler and returns to the engine at the oil pan inlet oil gallery, located in the left rear of the oil pan. Oil is then directed to the upper main oil galleries and the remainder of the engine assembly.

Drive Belt System Description

The drive belt system consists of the following components:

- The drive belt
- The drive belt tensioner
- The drive belt idler pulley
- The crankshaft balancer pulley
- The accessory drive component mounting brackets
- The accessory drive components
  - The power steering pump, if belt driven
  - The generator
  - The A/C compressor, if equipped
  - The engine cooling fan, if belt driven
  - The water pump, if belt driven
  - The vacuum pump, if equipped
  - The air compressor, if equipped

The drive belt system may use one belt or two belts. The drive belt is thin so that it can bend backwards and has several ribs to match the grooves in the pulleys. There also may be a V-belt style belt used to drive certain accessory drive components. The drive belts are made of different types of rubbers (chloroprene or EPDM) and have different layers or plys containing either fiber cloth or cords for reinforcement.

Both sides of the drive belt may be used to drive the different accessory drive components. When the back side of the drive belt is used to drive a pulley, the pulley is smooth.

The drive belt is pulled by the crankshaft balancer pulley across the accessory drive component pulleys. The spring loaded drive belt tensioner keeps constant tension on the drive belt to prevent the drive belt from slipping. The drive belt tensioner arm will move when loads are applied to the drive belt by the accessory drive components and the crankshaft.

The drive belt system may have an idler pulley, which is used to add wrap to the adjacent pulleys. Some systems use an idler pulley in place of an accessory drive component when the vehicle is not equipped with the accessory.

Engine Mechanical – 6.6L Diesel

General Specifications

Application	Specification	
	Metric	English
General		
Engine Type	90 degree V-8	
Displacement	6.6 Liter	402 cu in
RPO	LLY	
Bore	103 mm	4.0551 in
Stroke	99 mm	3.8976 in
Compression Ratio	16.8:1	
Engine Compression Test - Minimum	2069 KPa	300 psi
Idle Speed	680 RPM	
Firing Order	1-2-7-8-4-5-6-3	
Block		
Cylinder Bore Diameter - Service Limits	103.11 mm	4.0594 in
Cylinder Bore Diameter - Production Value	103.0-103.014 mm	4.0551-4.0557 in
Cylinder Bore Out-of-Round - Production Value	0.015 mm	0.0006 in
Cylinder Bore Taper - Production Value	0.015 mm	0.0006 in
Camshaft		
Camshaft Bearing Inside Diameter - Service Limit	61.07 mm	2.4043 in
Camshaft Bearing Inside Diameter - Production Value	61.00-61.03 mm	2.4016-2.4028 in
Camshaft End Play - Service Limit	0.2 mm	0.0079 in
Camshaft Journal Diameter - Service Limit	60.92 mm	2.3984 in
Camshaft Journal Diameter - Production Value	60.932-60.962 mm	2.3990-2.4001 in
Camshaft Lobe Lift - Exhuast - Production Value	5.907 mm	0.2326 in
Camshaft Lobe Lift - Intake - Production Value	7.273 mm	0.2863 in
Camshaft Runout - Service Limit	0.05 mm	0.0020 in
Cooling System		
Capacity @ Engine RPM	270 L/min @ 3172 RPM	
Thermostat Full Open Temperature	110 degrees C	230 degrees F
Turbocharger Coolant Bypass Valve	60 degrees C	140 degrees F
Connecting Rod		
Connecting Rod Bearing Clearance - Service Limit	0.10 mm	0.0039 in
Connecting Rod Bearing Clearance - Production Value	0.036-0.077 mm	0.0014-0.0030 in
Connecting Rod Bore Diameter - Bearing End - Production Value	62.958-62.979 mm	2.4789-2.4795 in
Connecting Rod Bore Diameter - Pin End - Service Limit	34.53 mm	1.3594 in
Connecting Rod Bore Diameter - Pin End - Production Value	34.512-34.522 mm	1.3587-1.3591 in
Connecting Rod Length	163.0 mm	6.42 in
Connecting Rod Side Clearance - Service Limit	0.54 mm	0.0213 in
Connecting Rod Side Clearance - Production Value	0.31-0.49 mm	0.0122-0.0193 in
Crankshaft		
Connecting Rod Journal Diameter - Service Limit	62.88 mm	2.4756 in
Connecting Rod Journal Diameter - Production Value	62.902-62.922 mm	2.4764-2.4772 in
Crankshaft End Play - Service Limit	0.54 mm	0.0213 in

Application	Specification	
	Metric	English
Crankshaft End Play - Production Value	0.04-0.205 mm	0.0016-0.0081 in
Crankshaft Main Bearing Clearance - Service Limit	0.14 mm	0.0055 in
Crankshaft Main Bearing Clearance - Production Value	0.039-0.070 mm	0.0015-0.0028 in
Crankshaft Main Journal Diameter - Service Limit	79.89 mm	3.1453 in
Crankshaft Main Journal Diameter - Production Value	79.905-79.925 mm	3.1459-3.1466 in
Crankshaft Runout - Service Limit	0.44 mm	0.0173 in
Crankshaft Runout - Production Value	0.05 mm	0.0020 in
Cylinder Head		
Surface Flatness - Block Deck - Service Limit	0.2 mm	0.0079 in
Surface Flatness - Block Deck - Production Value	0.075 mm	0.0030 in
Surface Flatness - Exhaust Manifold Deck - Production Value	0.1 mm	0.0039 in
Surface Flatness - Intake Manifold Deck - Production Value	0.1 mm	0.0039 in
Exhaust Manifold		
Surface Flatness- Production Value	0.3 mm	0.0118 in
Intake Manifold		
Surface Flatness - Production Value	0.3 mm	0.0118 in
Lubrication System		
Oil Capacity - with Filter	10 qt	9.5 L
Oil Capacity - without Filter	9.2 qt	8.7 L
Oil Pressure - Minimum- Hot - at idle	98 KPa	14 psi
Oil Pressure - Minimum - 1800 RPM	294 KPa	42 psi
Oil Relief Valve Opening Pressure	441 KPa	64 psi
Piston Cooling Jet Valve Opening Pressure	196 KPa	29 psi
Oil Pump		
Gear Shaft Outside Diameter - Drive - Service Limit	19.86 mm	0.7819 in
Gear Shaft Outside Diameter - Drive - Production Value	19.947-19.960 mm	0.7853-0.7858 in
Gear Shaft Outside Diameter - Driven - Service Limit	19.86 mm	0.7819 in
Gear Shaft Outside Diameter - Driven - Production Value	19.947-19.960 mm	0.7853-0.7858 in
Gear Shaft-to-Bushing - Service Limit Clearance	0.14 mm	0.0055 in
Gear-to-Cover Clearance - Drive/Driven - Service Limit	0.109 mm	0.0043 in
Gear-to-Cover Clearance - Drive/Driven - Production Value	0.064-0.109 mm	0.0025-0.0043 in
Gear-to-Housing Clearance - Drive/Driven - Service Limit	0.22 mm	0.0087 in
Gear-to-Housing Clearance - Drive/Driven - Production Value	0.125-0.221 mm	0.0049-0.0087 in
Piston Rings		
Piston Ring End Gap-First Compression Ring - Service Limit	1.37 mm	0.0539 in
Piston Ring End Gap-First Compression Ring - Production Value	0.3-0.45 mm	0.0118-0.0177 in
Piston Ring End Gap-Second Compression Ring - Service Limit	1.35 mm	0.0531 in
Piston Ring End Gap-Second Compression Ring - Production Value	0.50-0.65 mm	0.0197-0.0256 in
Piston Ring End Gap-Oil Control Ring - Service Limit	1.20 mm	0.0472 in
Piston Ring End Gap-Oil Control Ring - Production Value	0.15-0.35 mm	0.0059-0.0138 in
Piston Ring to Groove Clearance-First Compression Ring - Service Limit	0.26 mm	0.0102 in
Piston Ring to Groove Clearance-First Compression Ring - Production Value	0.08-0.17 mm	0.0030-0.0067 in
Piston Ring to Groove Clearance-Second Compression Ring - Service Limit	0.10 mm	0.0039 in

Application	Specification	
	Metric	English
Piston Ring to Groove Clearance-Second Compression Ring - Production Value	0.01-0.03 mm	0.0004-0.0012 in
Piston Ring to Groove Clearance-Oil Control Ring - Service Limit	0.12 mm	0.0047 in
Piston Ring to Groove Clearance-Oil Control Ring - Production Value	0.01-0.03 mm	0.0004-0.0012 in
Pistons and Pins		
Piston-Piston Diameter	102.948-102.960 mm	4.0531-4.0535 in
Piston-Piston Pin Bore Diameter	34.504-34.512 mm	1.3584-1.3587 in
Pin-Piston Pin Clearance to Piston Pin Bore - Service Limit	0.017 mm	0.0007 in
Pin-Piston Pin Clearance to Piston Pin Bore - Production Value	0.004-0.017 mm	0.0002-0.0007 in
Pin-Piston Pin Diameter - Service Limit	34.45 mm	1.3563 in
Pin-Piston Pin Diameter - Production Value	34.495-34.5 mm	1.3581-1.3583 in
Starter		
Rated Output	3.5 KW	
Valve System		
Valves-Valve Face Angle - Production Value	45 degrees	
Valves-Valve Face Width - Service Limit	2.5 mm	0.0984 in
Valves-Valve Face Width - Production Value	2.1 mm	0.0827 in
Valves-Valve Head Diameter - Exhaust	31.0 mm	1.22 in
Valves-Valve Head Diameter - Intake	33.0 mm	1.30 in
Valves-Valve Seat Angle	45 degrees	
Valves-Valve Stem Diameter	7.0 mm	0.28 in
Valves-Valve Stem Oil Seal Installed Height	6.05 mm	0.2382 in
Valves-Valve Stem-to-Guide Clearance - Service Limit	0.20 mm	0.0079 in
Valves-Valve Stem-to-Guide Clearance - Exhaust - Production Value	0.038-0.071 mm	0.0015-0.0028 in
Valves-Valve Stem-to-Guide Clearance - Intake - Production Value	0.030-0.063 mm	0.0012-0.0025 in
Valves-Valve Stem-to-Guide Clearance	0.20 mm	0.0079 in
Valve Lifters/Push Rods-Push Rod Straightness	0.8 mm	0.0315 in
Rocker Arms-Valve Rocker Arm Bore Diameter	22.010-22.035 mm	0.8665-0.8675 in
Rocker Arms-Valve Rocker Arm Bore-to-Shaft Clearance - Service Limit	0.20 mm	0.0079 in
Rocker Arms-Valve Rocker Arm Bore-to-Shaft Clearance - Production Value	0.010-0.056 mm	0.0004-0.0022 in
Rocker Arms-Valve Rocker Arm Ratio - Exhaust	1.69:1	
Rocker Arms-Valve Rocker Arm Ratio - Intake	1.36:1	
Rocker Arms-Valve Rocker Arm Shaft Diameter - Service Limit	21.85 mm	0.8602 in
Rocker Arms-Valve Rocker Arm Shaft Diameter - Production Value	21.979-22.000 mm	0.8653-0.8661 in
Valve Springs-Valve Spring Free Length - Production Value	56.6 mm	2.2283 in
Valve Springs-Valve Spring Installed Height - Production Value	41 mm	1.6142 in
Valve Springs-Valve Spring Load - Exhaust - Service Limit	275 N at 41 mm	61.8 lb at 1.61 in
Valve Springs-Valve Spring load - Exhaust - Production Value	315-363 N at 41 mm	71-81.6 lb at 1.61 in
Valve Springs-Valve Spring Load - Intake - Service Limit	306 N at 41 mm	68.8 lb at 1.61 in
Valve Springs-Valve Spring Load - Intake - Production Value	315-363 N at 41 mm	71-81.6 lb at 1.61 in

Fastener Tightening Specifications

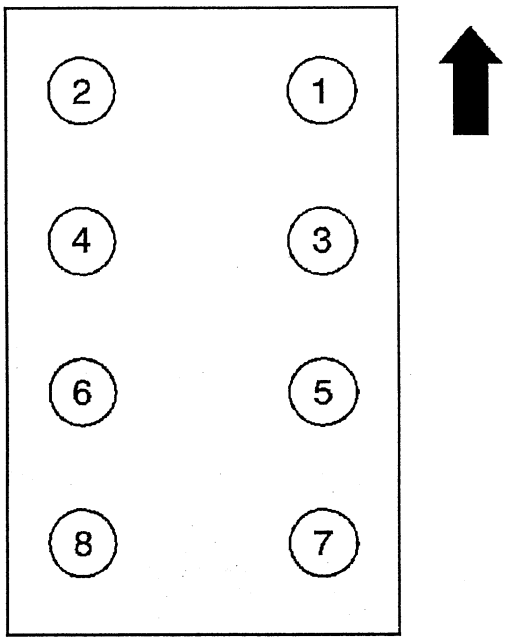
Application	Specification	
	Metric	English
A/C Compressor Bolt	50 N·m	37 lb ft
Air Cleaner Outlet Duct Clamp	8 N·m	71 lb in
Air Conditioning Compressor/Power Steering Pump Bracket Bolt	46 N·m	34 lb ft
Air Inlet Tube Nut	25 N·m	18 lb ft
Battery Cable Bracket Bolt	12 N·m	106 lb in
Battery Cable Bracket Nut	8 N·m	71 lb in
Bypass Pipe Bolt	25 N·m	18 lb ft
Camshaft Gear Bolt	234 N·m	173 lb ft
Camshaft Position Sensor Bolt	10 N·m	89 lb in
Camshaft Position Sensor Exciter Ring Bolt	9 N·m	80 lb in
Camshaft Thrust Plate Bolt	22 N·m	16 lb ft
Charged Air Cooler Bolt	21 N·m	15 lb ft
Charged Air Cooler Clamp	8 N·m	71 lb in
Connecting Rod Cap Bolt - Angular Tightening Method	1st Step 64 N·m	1st Step 47 lb ft
	2nd Step 30 degrees	2nd Step 30 degrees
	3rd Step 30 degrees	3rd Step 30 degrees
Coolant Pipe Bolt and Nut	25 N·m	18 lb ft
Coolant Tube to Water Pump Nut	25 N·m	18 lb ft
Cooling Fan Pulley	41 N·m	30 lb ft
Crankshaft Balancer Bolt	1st Step 100 N·m	1st Step 74 lb ft
	2nd Step 90 degrees	2nd Step 90 degrees
Crankshaft Bearing Cap Bolt	1st Step 98 N·m	1st Step 72 lb ft
	2nd Step 132 N·m	2nd Step 97 lb ft
	3rd Step 30 degrees	3rd Step 30 degrees
Crankshaft Bearing Cap Bolt - Angular Tightening Method	1st Step 100 N·m	1st Step 74 lb ft
	2nd Step 90 degrees	2nd Step 90 degrees
Crankshaft Bearing Cap Side Bolt	70 N·m	52 lb ft
Crankshaft Position Sensor Bolt	10 N·m	89 lb in
Crankshaft Position Sensor Spacer Bolt	10 N·m	89 lb in
Crossmember Bolt	100 N·m	74 lb ft
Cylinder Head M12 Bolt - Angular Tightening Method	1st Step 50 N·m	1st Step 37 lb ft
	2nd Step 80 N·m	2nd Step 59 lb ft
	3rd Step 60 degrees	
	4th Step 90 degrees	
Cylinder Head M8 Bolt	25 N·m	18 lb ft
Drive Belt Tensioner Pulley Bolt	50 N·m	37 lb ft
EGR Bracket	25 N·m	18 lb ft
EGR Bracket Bolt	25 N·m	18 lb ft
EGR Bracket to Cooler Bolt	25 N·m	18 lb ft
Electrical Harness Bracket Bolt	10 N·m	89 lb in
Engine Block Coolant Plug	18 N·m	13 lb ft
Engine Block Ground Bolt	34 N·m	25 lb ft
Engine Mount Through Bolt to Frame	75 N·m	55 lb ft
Engine Mount to Block Bolts	58 N·m	43 lb ft
Engine Mount to Frame Bolt	65 N·m	48 lb ft

Application	Specification	
	Metric	English
Engine Shield Bolt	20 N·m	15 lb ft
Exhaust Heat Shield Nut	10 N·m	89 lb in
Exhaust Manifold Bolt/Nut	38 N·m	28 lb ft
Exhaust Manifold Heat Shield Bolts	10 N·m	89 lb in
Exhaust Outlet Heat Shield Bolts	10 N·m	89 lb in
Exhaust Pipe Bracket Nut	53 N·m	39 lb ft
Exhaust Pipe Clamp	53 N·m	39 lb ft
Exhaust Pipe Heat Shield Bolts	10 N·m	89 lb in
Fan Pulley Bracket Bolt	50 N·m	37 lb ft
Flywheel Bolt - Angular Tightening Method	1st Step 79 N·m	1st Step 58 lb ft
	2nd Step 60 degrees	2nd Step 60 degrees
	3rd Step 60 degrees	3rd Step 60 degrees
Flywheel Housing Bolt	80 N·m	60 lb ft
Flywheel Housing to Upper Oil Pan Bolt	50 N·m	37 lb ft
Front Engine Cover Bolt	25 N·m	18 lb ft
Fuel Filter Bracket Bolt	30 N·m	22 lb ft
Fuel Injection Pipe Nut	41 N·m	30 lb ft
Fuel Injector Bracket Bolt	30 N·m	22 lb ft
Fuel Inlet Pipe Bracket Bolt	21 N·m	15 lb ft
Fuel Injection Pump Assembly to Cylinder Block Bolt	25 N·m	18 lb ft
Fuel Injection Pump to Bracket Bolt	28 N·m	20 lb ft
Fuel Injection Pump Drive Gear Nut	70 N·m	52 lb ft
Fuel Line Bracket Nut	21 N·m	15 lb ft
Fuel Temperature Sensor	22 N·m	16 lb ft
Fuel Pipes Bracket Bolt	25 N·m	18 lb ft
Fuel Rail Assembly Bolt	25 N·m	18 lb ft
Fuel Rail Balance Pipe Bolt	21 N·m	15 lb ft
Generator Bracket Bolt and Nut	50 N·m	37 lb ft
Generator Positive Cable Nut	9 N·m	80 lb in
Glow Plug	18 N·m	13 lb ft
Glow Plug Controller Bolt	10 N·m	89 lb in
Glow Plug Harness Bracket Bolt	10 N·m	89 lb in
Glow Plug Nut	2 N·m	18 lb in
Glow Plug Power Feed Nut	15 N·m	11 lb ft
Glow Plug Relay Assembly Bolt	10 N·m	89 lb in
Heater Outlet Pipe Bolt	25 N·m	18 lb ft
Heater Pipe Bolt	25 N·m	18 lb ft
Hood Hinge Bolt	25 N·m	18 lb ft
Idle Pulley Bolt	50 N·m	37 lb ft
Injector Bracket Bolt	23 N·m	16 lb ft
Intake Manifold Bolts/Nuts	25 N·m	18 lb ft
MAP Sensor Bolt	10 N·m	89 lb in
Oil Cooler Adapter Bolts	25 N·m	18 lb ft
Oil Cooler Adapter Nuts	25 N·m	18 lb ft
Oil Cooler Assembly Bolts	25 N·m	18 lb ft
Oil Cooler Adapter Stud	10 N·m	89 lb in
Oil Drain Plug	84 N·m	62 lb ft
Oil Fill Tube Bolt	25 N·m	18 lb ft
Oil Filter	24 N·m	18 lb ft
Oil Gallery Plugs	53 N·m	39 lb ft

Application	Specification	
	Metric	English
Oil Level Indicator Tube Bolt	21 N·m	15 lb ft
Oil Level Sensor Bolt	10 N·m	89 lb in
Oil Level Sensor Harness Bolt	40 N·m	29 lb ft
Oil Pan Bolts/Nuts - Lower	10 N·m	89 lb in
Oil Pan Bolt - Upper	20 N·m	15 lb ft
Oil Pan Skid Plate Bolt	20 N·m	15 lb ft
Oil Pressure Sensor Unit	41 N·m	30 lb ft
Oil Pressure Relief Valve	39 N·m	29 lb ft
Oil Pump Bolt	21 N·m	15 lb ft
Oil Pump Driven Gear Nut	100 N·m	74 lb ft
Oil Pump Gear Cover Bolt	21 N·m	15 lb ft
Oil Pump Pipe and Screen Assembly Bolts and Nuts	25 N·m	18 lb ft
Piston Cooling Nozzle Eye Bolt	21 N·m	15 lb ft
Positive Cable Junction Block Bracket to Power Steering Pump Bolt	9 N·m	80 lb in
Positive Crankcase Ventilation Cover Screws	4 N·m	35 lb in
Positive Crankcase Ventilation Oil Seperator Bracket Nut	25 N·m	18 lb ft
Power Steering Pump Bolt	50 N·m	37 lb ft
Rocker Arm Shaft Bracket Bolt	41 N·m	30 lb ft
Starter Motor Bolt	78 N·m	58 lb ft
Transmission Fill Tube Nut	18 N·m	13 lb ft
Thermostat Housing Bolts/Nuts	25 N·m	18 lb ft
Thermostat Cover Bolt	25 N·m	18 lb ft
Torque Converter Bolt	60 N·m	44 lb ft
Transmission Oil Cooler Clip Nut	9 N·m	80 lb in
Turbocharger Bolt	108 N·m	80 lb ft
Turbocharger Coolant Outlet Pipe Bracket Nut	10 N·m	89 lb in
Turbocharger Heat Shield Bolts	10 N·m	89 lb in
Turbocharger Oil Return Pipe Stud	10 N·m	89 lb in
Turbocharger Oil Supply Hose Eye Bolt	26 N·m	19 lb ft
Turbocharger Oil Return Pipe Bolts/Nuts	25 N·m	18 lb ft
UpperOil Pan to Flywheel Housing Bolts	20 N·m	15 lb ft
Valve Adjusting Nut	22 N·m	16 lb ft
Valve Lifter Holdown Bracket Bolt	11 N·m	97 lb in
Valve Rocker Arm Cover Bolt - Lower	10 N·m	89 lb in
Valve Rocker Arm Cover Bolt - Upper	8 N·m (Two Times)	71 lb in (Two Times)
Water Outlet Bolts	25 N·m	18 lb ft
Water Pump Bolt	25 N·m	18 lb ft
Water Pump Inlet Pipe Bolts	25 N·m	18 lb ft

Engine Component Description

Engine Block



The engine block utilizes a deep skirt design for increased rigidity. The cylinders are positioned in a 90 degree "V" orientation with the number one cylinder being the right front. The block is induction hardened for increased durability. The crankshaft bearing caps are cross-bolted to enhance structural rigidity.

Upper Oil Pan

A single piece cast aluminum upper oil pan contributes to crankshaft and block rigidity while reducing overall weight.

Crankshaft

The crankshaft is a nitride hardened steel design with five main bearings. Crankshaft thrust is controlled by the number 5 bearing.

Connecting Rods

The connecting rods are one-piece hot forged steel. The connecting rods and caps are of a fractured split design to improve durability and reduce internal friction. The connecting rod small end is tapered cut for reduced weight and improved durability.

Pistons

The pistons are a full-floating design. The piston pins are a slip fit in the bronze bushed connecting rod and are retained in the piston by round wire retainers. The pistons have a piston cooling oil channel cast inside of the piston. These cooling oil channels utilize an oil jet located at the bottom of the cylinder bore to direct oil into the piston channel. There are two compression rings and one oil control ring. There is a groove machined into the pistons between the first and second compression rings. This groove reduces compression ring leakage by providing an empty space for expanding gases, reducing the combustion gas pressure on the second compression ring.

Cylinder Heads

The cylinder heads are made of aluminum for lighter weight and rapid heat dissipation. There are 4 valves per cylinder and the ports are of a high swirl design for improved combustion. The cylinder head gaskets consist of an all steel laminated construction.

Valve Train

The engine utilizes a mechanical roller lifter for valve operation. The shaft mounted rocker arms have roller tips for reduced friction and wear. One rocker arm operates two valves simultaneously through a valve bridge.

Fuel System

The fuel system is of a direct injection fuel rail design. A high pressure pump mounted within the valley is gear driven directly from the camshaft. This pump provides a continuous and constant high pressure fuel supply to the fuel rails. The electronically controlled fuel injectors receive their fuel supply from these fuel rails. The fuel injection control utilizes a pilot injection method to reduce the combustion noise that is common in traditional diesel engines. The pilot injection method reduces noise by supplying a small amount of fuel to the cylinder just before the normal combustion timing.

Fuel Injection Control Module

The fuel injection control module is mounted on the right front valve rocker arm cover. It is fuel cooled.

Turbocharger

The turbocharger is water cooled for improved durability.

Oil Cooler

The oil cooler lowers engine temperature by cooling the oil with engine coolant. Engine coolant is directed from the water pump to the oil cooler by a coolant tube. The oil filter attaches directly to the oil cooler.

Oil Pump

The oil pump is gear driven directly from the crankshaft. The oil pump drive gear is a slip fit to the crankshaft.

Water Pump

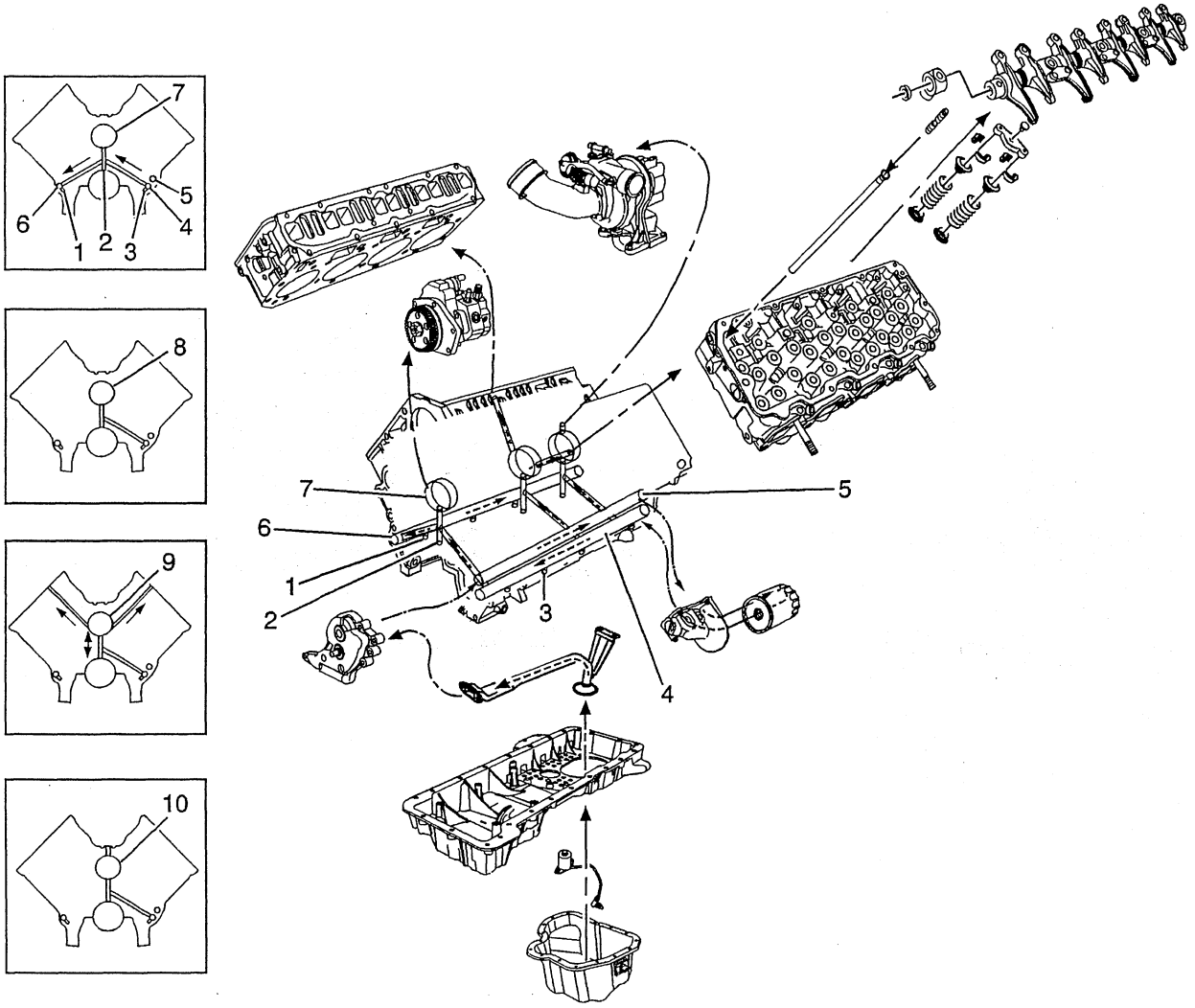
The water pump is gear driven for improved reliability.

Engine Covers

There is a front engine cover and a flywheel housing, both are made of aluminum. The full bell flywheel housing is cross bolted to the upper oil pan. The flywheel housing also supplies a crossover passage for engine coolant. The front engine cover houses the gear train and provides a mounting surface for the cooling fan pulley assembly.

Lubrication Description

Lubrication Flow Schematic



Engine lubrication is supplied by a gear type oil pump assembly. The pump is mounted on the front of the engine block and driven by the oil pump drive gear on the crankshaft. The pump gears rotate and draw oil from the oil pan sump through a pick-up screen and pipe. The oil is pressurized as it passes through the pump and is sent through the engine block oil galleries. Contained within the oil pump assembly is a safety relief valve that eliminates overpressurization. Pressurized oil is directed through the sub oil gallery (5) to the full flow oil filter where harmful contaminants are removed. Two bypass valves are incorporated into the oil cooler assembly which will permit oil flow in the event the filter or the oil cooler become restricted.

The oil is directed to the main oil gallery (4), and from the main oil gallery it flows to the piston cooling channel left bank (3), and the sub oil gallery (6) on the right bank. The sub oil gallery on the right bank supplies oil to the right bank piston cooling channel (1). Located in the front cover at the sub oil gallery (6) is an oil pressure relief valve which regulates oil pressure within operating range.

Oil flows from the main gallery (4) to the vertical crankshaft/camshaft bearing galleries (2). From the crankshaft/camshaft bearing galleries (2), the oil flows to both the camshaft bearings and the crankshaft main bearings. Oil flows from the crankshaft main bearings to the connecting rod big end.

Oil flows from the crankshaft/camshaft bearing galleries (2) to the number 1 camshaft bearing (7), where it splash lubricates the fuel injection pump gear.

Oil flows from the crankshaft/camshaft bearing galleries (2) to the number 2 and 5 camshaft bearings (8).

Oil flows from the crankshaft/camshaft bearing galleries (2) to the number 3 camshaft bearing (9), where it exits to both cylinder heads and enters the hollow rocker arm shafts. Oil flows through the rocker arm shafts and rocker arms where it lubricates the upper valve train components. Oil also flows through the rocker arms, through the passage in the valve adjusting screw, and into the hollow pushrods where it is directed to the valve lifters.

Oil flows from the crankshaft/camshaft bearing galleries (2) to the number 4 camshaft (10), where it exits into the turbocharger oil supply line to lubricate the turbocharger. Oil exiting the turbocharger is routed through the turbocharger oil return pipe and into the flywheel housing.

Crankcase Ventilation System Description

Starting in January 2004, a closed crankcase ventilation system is used to meet new diesel emissions requirements.

Located in both valve rocker arm covers are diaphragms to control the venting of the crankcase gases. As the pressure of the crankcase gases increase, they overcome the spring holding the diaphragm in the closed position. If a vacuum situation arises in the crankcase, the diaphragm closes the port in the valve rocker arm cover. Closing the port will prevent unfiltered air to enter the crankcase.

The crankcase gases travel from the valve rocker arm covers through hoses to a tee, where they enter the turbocharger inlet duct. Because of the use of a closed crankcase ventilation system, it is normal for oil residue to be found on the turbocharger compressor wheel and inside the charge air cooler, pipes, and hoses.

No routine maintenance is required to the crankcase ventilation system.

Engine Cooling

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Air Cleaner Outlet Duct Clamp Screw (4.8L, 5.3L, and 6.0L Engines)	7 N·m	62 lb in
Air Cleaner Outlet Duct Wingnut (4.3L Engine)	3 N·m	27 lb in
Coolant Air Bleed Pipe Stud/Bolt (4.8L, 5.3L, and 6.0L Engines)	12 N·m	106 lb in
Coolant Heater (4.8L, 5.3L, 6.0L Engines)	50 N·m	37 lb ft
Coolant Heater Bolt (4.3L Engine)	2 N·m	18 lb in
Coolant Heater Cord Bolt	8 N·m	71 lb in
Coolant Recovery Reservoir Bolt	11 N·m	97 lb in
Drive Belt Tensioner Bolt	50 N·m	37 lb ft
Engine Block Coolant Drain Plug (4.3L Engine)	20 N·m	15 lb ft
Engine Coolant Heater Cord Bracket Bolt	12 N·m	106 lb in
Engine Coolant Heater Cord Clip Bolt	12 N·m	106 lb in
Engine Coolant Temperature Sensor	20 N·m	15 lb ft
Fan and Clutch Retaining Nut to Water Pump Pulley (4.3L)	57 N·m	42 lb in
Fan and Water Pump Pulley Bolt (4.3L Engine)	25 N·m	18 lb ft
Fan Clutch Bolt (4.8L, 5.3L and 6.0L)	23 N·m	17 lb ft
Fan Clutch Nut (4.8L, 5.3L and 6.0L)	56 N·m	41 lb ft
Fan Clutch Retaining Bolts (4.3L)	33 N·m	24 lb ft
Fan Shroud Bolt	9 N·m	80 lb in
Oil Cooler Hose Adapter Bolt (4.8L, 5.3L and 6.0L Engine)	12 N·m	106 lb in
Oil Cooler Hose Bracket Bolt (4.8L, 5.3L and 6.0L Engine)	25 N·m	18 lb ft
Oil Cooler Line Clip to Bracket Nut (4.3L)	12 N·m	106 lb in
Oil Cooler Line Fittings to the Oil Filter Base (4.3L)	17 N·m	13 lb ft
Oil Cooler Line Fittings to the Oil Filter Base (4.3L Auxiliary Oil Cooler)	35 N·m	26 lb ft
Oil Cooler Line Fittings to the Radiator (4.3L)	24 N·m	18 lb ft
Oil Level Indicator Tube and Transmission Fluid Fill Tube Lower Support Bolt (4.3L)	4 N·m	44 lb in
Radiator Bolt	25 N·m	18 lb ft
Radiator Surge Tank Bolt	6 N·m	53 lb in
Surge Tank Bolt/Nut	9 N·m	80 lb in
Thermostat Housing Bolt (4.3L)	25 N·m	18 lb ft
Thermostat Housing Bolt (4.8L, 5.3L, and 6.0L Engines)	15 N·m	11 lb ft
Thermostat Housing Crossover Bolt (6.0L Engine)	21 N·m	16 lb ft
Thermostat Housing Crossover Retaining Bolts (4.3L)	47 N·m	35 lb ft
Transmission Control Module (TCM) Cover Bolt	9 N·m	80 lb in
Transmission Control Module (TCM) Electrical Connector Bolt	8 N·m	71 lb in
Water Outlet Stud (4.3L Engine)	25 N·m	18 lb ft
Water Pump Bolt (4.3L Engine)	45 N·m	33 lb ft
Water Pump Bolt (First Pass) (4.8L, 5.3L, and 6.0L Engines)	15 N·m	11 lb ft
Water Pump Bolt (Final Pass) (4.8L, 5.3L, and 6.0L Engines)	30 N·m	22 lb ft

Cooling System Description and Operation

Coolant Heater

The optional engine coolant heater (RPO K05) operates using 110-volt AC external power and is designed to warm the coolant in the engine block area for improved starting in very cold weather -29°C (-20°F). The coolant heater helps reduce fuel consumption when a cold engine is warming up. The unit is equipped with a detachable AC power cord. A weather shield on the cord is provided to protect the plug when not in use.

Cooling System

The cooling system's function is to maintain an efficient engine operating temperature during all engine speeds and operating conditions. The cooling system is designed to remove approximately one-third of the heat produced by the burning of the air-fuel mixture. When the engine is cold, the coolant does not flow to the radiator until the thermostat opens. This allows the engine to warm quickly.

Cooling Cycle

Coolant flows from the radiator outlet and into the water pump inlet. Some coolant flows from the water pump, to the heater core, then back to the water pump. This provides the passenger compartment with heat and defrost capability as the coolant warms up.

Coolant also flows from the water pump outlet and into the engine block. In the engine block, the coolant circulates through the water jackets surrounding the cylinders where it absorbs heat.

The coolant then flows through the cylinder head gasket openings and into the cylinder heads. In the cylinder heads, the coolant flows through the water jackets surrounding the combustion chambers and valve seats, where it absorbs additional heat.

From the cylinder heads, the coolant flows to the thermostat. The flow of coolant will either be stopped at the thermostat until the engine reaches normal operating temperature, or it will flow through the thermostat and into the radiator where it is cooled. At this point, the coolant flow cycle is completed.

Efficient operation of the cooling system requires proper functioning of all cooling system components. The cooling system consists of the following components:

Coolant

The engine coolant is a solution made up of a 50-50 mixture of DEX-COOL and suitable drinking water. The coolant solution carries excess heat away from the engine to the radiator, where the heat is dissipated to the atmosphere.

Radiator

The radiator is a heat exchanger. It consists of a core and two tanks. The aluminum core is a tube and fin crossflow design that extends from the inlet tank to the outlet tank. Fins are placed around the outside of the tubes to improve heat transfer to the atmosphere.

The inlet and outlet tanks are a molded, high temperature, nylon reinforced plastic material. A high temperature rubber gasket seals the tank flange edge to the aluminum core. The tanks are clamped to the core with clinch tabs. The tabs are part of the aluminum header at each end of the core.

The radiator also has a drain cock located in the bottom of the left hand tank. The drain cock unit includes the drain cock and drain cock seal.

The radiator removes heat from the coolant passing through it. The fins on the core transfer heat from the coolant passing through the tubes. As air passes between the fins, it absorbs heat and cools the coolant.

Pressure Cap

The pressure cap seals the cooling system. It contains a blow off or pressure valve and a vacuum or atmospheric valve. The pressure valve is held against its seat by a spring, which protects the radiator from excessive cooling system pressure. The vacuum valve is held against its seat by a spring, which permits opening of the valve to relieve vacuum created in the cooling system as it cools off. The vacuum, if not relieved, might cause the radiator and/or coolant hoses to collapse.

The pressure cap allows cooling system pressure to build up as the temperature increases. As the pressure builds, the boiling point of the coolant increases. Engine coolant can be safely run at a temperature much higher than the boiling point of the coolant at atmospheric pressure. The hotter the coolant is, the faster the heat transfers from the radiator to the cooler, passing air.

The pressure in the cooling system can get too high. When the cooling system pressure exceeds the rating of the pressure cap, it raises the pressure valve, venting the excess pressure.

As the engine cools down, the temperature of the coolant drops and a vacuum is created in the cooling system. This vacuum causes the vacuum valve to open, allowing outside air into the surge tank. This equalizes the pressure in the cooling system with atmospheric pressure, preventing the radiator and coolant hoses from collapsing.

Coolant Recovery System

The coolant recovery system consists of a plastic coolant recovery reservoir and overflow tube. The recovery reservoir is also called a recovery tank or expansion tank. It is partially filled with coolant and is connected to the radiator fill neck with the overflow tube. Coolant can flow back and forth between the radiator and the reservoir.

In effect, a cooling system with a coolant recovery reservoir is a closed system. When the pressure in the cooling system gets too high, it will open the pressure valve in the pressure cap. This allows the coolant, which has expanded due to being heated, is allowed to flow through the overflow tube and into the recovery reservoir. As the engine cools down, the temperature of the coolant drops and a vacuum is created in the cooling system. This vacuum opens the vacuum valve in the pressure cap, allowing some of the coolant in the reservoir to be siphoned back into the radiator. Under normal operating conditions, no coolant is lost. Although the coolant level in the recovery reservoir goes up and down, the radiator and cooling system are kept full. An advantage to using a coolant recovery reservoir is that it eliminates almost all air bubbles from the cooling system. Coolant without bubbles absorbs heat much better than coolant with bubbles.

Air Baffles and Seals

The cooling system uses deflectors, air baffles and air seals to increase cooling system capability. Deflectors are installed under the vehicle to redirect airflow beneath the vehicle and through the radiator to increase engine cooling. Air baffles are also used to direct airflow through the radiator and increase cooling capability. Air seals prevent air from bypassing the radiator and A/C condenser, and prevent recirculation of hot air for better hot weather cooling and A/C condenser performance.

Water Pump

The water pump is a centrifugal vane impeller type pump. The pump consists of a housing with coolant inlet and outlet passages and an impeller. The impeller is mounted on the pump shaft and consists of a series of flat or curved blades or vanes on a flat plate. When the impeller rotates, the coolant between the vanes is thrown outward by centrifugal force.

The impeller shaft is supported by one or more sealed bearings. The sealed bearings never need to be lubricated. Grease cannot leak out, dirt and water cannot get in as long as the seal is not damaged or worn.

The purpose of the water pump is to circulate coolant throughout the cooling system. The water pump is driven by the crankshaft via the drive belt.

Thermostat

The thermostat is a coolant flow control component. It's purpose is to help regulate the operating temperature of the engine. It utilizes a temperature sensitive wax-pellet element. The element connects to a valve through a small piston. When the element is heated, it expands and exerts pressure against the small piston. This pressure forces the valve to open. As the element is cooled, it contracts. This contraction allows a spring to push the valve closed.

When the coolant temperature is below the rated thermostat opening temperature, the thermostat valve remains closed. This prevents circulation of the coolant to the radiator and allows the engine to warm up. After the coolant temperature reaches the rated thermostat opening temperature, the thermostat valve will open. The coolant is then allowed to circulate through the thermostat to the radiator where the engine heat is dissipated to the atmosphere. The thermostat also provides a restriction in the cooling system, after it has opened. This restriction creates a pressure difference which prevents cavitation at the water pump and forces coolant to circulate through the engine block.

Engine Oil Cooler

The engine oil cooler is a heat exchanger. It is located inside the left side end tank of the radiator. The engine oil temperature is controlled by the temperature of the engine coolant that surrounds the oil cooler in the radiator.

The engine oil pump, pumps the oil through the engine oil cooler line to the oil cooler. The oil then flows through the cooler where the engine coolant absorbs heat from the oil. The oil is then pumped through the oil cooler return line, to the oil filter, to the engine block oil system.

Transmission Oil Cooler

The transmission oil cooler is a heat exchanger. It is located inside the right side end tank of the radiator. The transmission fluid temperature is regulated by the temperature of the engine coolant in the radiator.

The transmission oil pump, pumps the fluid through the transmission oil cooler line to the transmission oil cooler. The fluid then flows through the cooler where the engine coolant absorbs heat from the fluid. The fluid is then pumped through the transmission oil cooler return line, to the transmission.

Engine Electrical

Fastener Tightening Specifications

Application	Specification	
	Metric	English
3-Phase Cable Bracket Cover Bolt	9 N·m	80 lb in
3-Phase Cable Bracket Nut	9 N·m	80 lb in
3-Phase Cable Cover Nut	9 N·m	80 lb in
3-Phase Cable Nut to Starter Generator Control Module (SGCM)	15 N·m	11 lb ft
3-Phase Cable Nut to Stator	14 N·m	10 lb ft
Air Cleaner Outlet Duct Clamp	4 N·m	35 lb in
Accessory Power Receptacle Harness Ground Wire Bolt	9 N·m	80 lb in
Auxiliary Battery Cable Clip Bolt	10 N·m	89 lb in
Auxiliary Battery Negative Cable Bolt (6.6L)	34 N·m	25 lb ft
Auxiliary Battery Positive Cable Nut	9 N·m	80 lb in
Auxiliary Battery Relay Nut	9 N·m	80 lb in
Auxiliary Battery Tray Bolt	9 N·m	80 lb in
Auxiliary Battery Tray Nut	25 N·m	18 lb ft
Auxiliary Generator Bolt (6.6L)	50 N·m	37 lb ft
Auxiliary Generator Bracket Bolt (6.6L)	50 N·m	37 lb ft
Auxiliary Negative Battery Cable Bolt	17 N·m	13 lb ft
Auxiliary Positive Battery Cable Bolt	17 N·m	13 lb ft
Auxiliary Positive Battery Cable Nut	8 N·m	71 lb in
Auxiliary Positive Cable to Relay Nut	9 N·m	80 lb in
Battery Cable Bracket Bolt	25 N·m	18 lb ft
Battery Cable Channel Bolt	12 N·m	106 lb in
Battery Cable Channel Bolt (6.6L)	8 N·m	71 lb in
Battery Cable Junction Block Bracket Bolt (4.8L, 5.3L, 6.0L, and 8.1L)	9 N·m	80 lb in
Battery Cable Retainer Nut (6.6L)	12 N·m	106 lb in
Battery Hold Down Retainer Bolt	25 N·m	18 lb ft
Battery Tray Bolt	9 N·m	80 lb in
Crossbar Bolt	100 N·m	74 lb ft
Drive Belt Tensioner Bolt (6.6L)	41 N·m	30 lb ft
Energy Storage Box (ESB) Air Duct Hose to ESB Screw	0.5 N·m	44 lb in
Energy Storage Box (ESB) Air Duct Hose to Fan Screw	1 N·m	9 lb in
Energy Storage Box (ESB) Battery 1 to Battery 2 Power Cable Nut	10 N·m	89 lb in
Energy Storage Box (ESB) Battery 2 to Battery 3 Power Cable Nut	10 N·m	89 lb in
Energy Storage Box (ESB) Battery Cut Off Switch Nut	10 N·m	89 lb in

Application	Specification	
	Metric	English
Energy Storage Box (ESB) Battery Hold Bracket Nut	10 N·m	89 lb in
Energy Storage Box (ESB) Carrier Nut	47 N·m	35 lb ft
Energy Storage Box (ESB) Fan Screw	1 N·m	9 lb in
Energy Storage Box (ESB) Fuse Holder Screws	2 N·m	18 lb in
Energy Storage Box (ESB) Fuse Power Cable to High Current Sensor Nut	10 N·m	89 lb in
Energy Storage Box (ESB) Ground Wire Screw	6 N·m	53 lb in
Energy Storage Box (ESB) Ground Strap Nut	10 N·m	89 lb in
Energy Storage Box (ESB) High Current Connector Screws	6 N·m	53 lb in
Energy Storage Box (ESB) High Current Connector to Battery 3 Nut	10 N·m	89 lb in
Energy Storage Box (ESB) High Current Sensor Nut	6 N·m	53 lb in
Energy Storage Box (ESB) Intermediate Cover Screw	6 N·m	53 lb in
Energy Storage Box (ESB) Maxi-Fuse Nut	10 N·m	89 lb in
Energy Storage Box (ESB) Receptacle Outlet Cover Screws	0.5 N·m	4.4 lb in
Energy Storage Box (ESB) Receptacle Outlet Screws	2 N·m	18 lb in
Energy Storage Box (ESB) Service Disconnect Switch Screw/Nut	6 N·m	53 lb in
Energy Storage Box (ESB) Service Disconnect Switch Power Cable to High Current Connector Nut	10 N·m	89 lb in
Energy Storage Box (ESB) Service Disconnect Switch Power Cable to Service Disconnect Switch Nut	10 N·m	89 lb in
Energy Storage Box (ESB) Temperature Sensor Screw	0.5 N·m	4.4 lb in
Energy Storage Control Module Nut	6 N·m	53 lb in
Engine Wiring Harness/Auxiliary Negative Battery Cable Bolt	16 N·m	12 lb ft
Engine Wiring Harness Ground Bolt	16 N·m	12 lb ft
Engine Wiring Harness Ground/Negative Cable Bolt	25 N·m	18 lb ft
Engine Wiring Harness Ground/Negative Cable Bolt (6.6L)	34 N·m	25 lb ft
Exhaust Gas Recirculation (EGR) Vacuum Pump Bolt (6.6L)	22 N·m	16 lb ft
Fender to Cowl Support Brace Bolt	9 N·m	80 lb in
Flexplate Bolt	100 N·m	74 lb ft
Forward Lamp Wiring Harness Ground/Negative Cable Bolt	9 N·m	80 lb in
Front End Diagonal Brace Bolt	9 N·m	80 lb in
Fuel Bleed Valve Bracket Nut (6.6L)	25 N·m	18 lb ft
Generator Bolt (4.3L)	50 N·m	37 lb ft
Generator Bolt (4.8L, 5.3L, 6.0L, 6.6L, and 8.1L)	50 N·m	37 lb ft
Generator Bracket Bolt (4.8L, 5.3L, 6.0L, 6.6L, and 8.1L)	50 N·m	37 lb ft
Generator Bracket Bolt/Nut (4.3L)	41 N·m	30 lb ft
Generator Bracket Stud (8.1L)	20 N·m	15 lb ft
Generator Cable Nut	9 N·m	80 lb in
Ground Strap Nut	9 N·m	80 lb in
Ground Strap Nut (Energy Storage Box)	10 N·m	89 lb in
Harness Clip to Junction Block Bracket Bolt	9 N·m	80 lb in
Heater Hose Bracket Bolt (4.3L)	25 N·m	18 lb ft
Heater Outlet Pipe Bolt (6.6L)	25 N·m	18 lb ft
Hybrid Control Module (HCM) Bracket Bolt	9 N·m	80 lb in
Idler Pulley Bolt (6.6L)	43 N·m	32 lb ft
J-46093 Bolt	50 N·m	37 lb ft
M-Terminal Stud Nut (6.6L)	8 N·m	71 lb in
Negative Battery Cable Bolt	17 N·m	13 lb ft
Positive Battery Cable Bolt	17 N·m	13 lb ft
Positive Cable Clip Nut (8.1L)	8 N·m	71 lb in
Positive Cable at Underhood Bussed Electrical Center (UBEC) Bolt	9 N·m	80 lb in
Positive/Negative Battery Cable Bolt (14V)	9 N·m	80 lb in

Application	Specification	
	Metric	English
Positive/Negative Battery Cable Channel Rear Nut (42V)	10 N·m	89 lb in
Positive/Negative Battery Cable Grommet Nut (42V)	10 N·m	89 lb in
Positive/Negative Battery Cable Ground Strap Bolt (42V)	10 N·m	89 lb in
Positive/Negative Battery Cable Retainer Nut (42V)	20 N·m	15 lb ft
Starter Bolt (4.3L)	43 N·m	32 lb ft
Starter Bolt (4.8L, 5.3L, 6.0L, and 8.1L)	50 N·m	37 lb ft
Starter Bolt (6.6L)	78 N·m	58 lb ft
Starter Generator Control Module (SGCM) Bolt	20 N·m	15 lb ft
Starter Generator Control Module (SGCM) Brace Bolt	25 N·m	18 lb ft
Starter Generator Control Module (SGCM) Bracket Bolt	9 N·m	80 lb in
Starter Generator Control Module (SGCM) Bracket Nut	25 N·m	18 lb ft
Starter Generator Control Module (SGCM) Coolant Tank Bolt	9 N·m	80 lb in
Starter Generator Control Module (SGCM) Cover Bolt	9 N·m	80 lb in
Starter/Generator Stator Stud	16 N·m	12 lb ft
Starter Heat Shield Bolt (8.1L)	3 N·m	35 lb in
Starter Heat Shield Nut (8.1L)	5 N·m	44 lb in
Starter Lead Nut	9 N·m	80 lb in
Starter Solenoid Bolt (6.6L)	10 N·m	89 lb in
Starter Solenoid Nut	3.4 N·m	30 lb in
Transmission Cover Bolt (4.8L, 5.3L, and 6.0L)	9 N·m	80 lb in
Transmission Fill Tube Nut	18 N·m	13 lb ft
Transmission Heat Shield	17 N·m	13 lb ft
Transmission Mount Nut	40 N·m	29 lb ft
Transmission Support Bolts/Nuts	70 N·m	50 lb ft
Wiring Harness Bracket Bolt (4.3L)	25 N·m	18 lb ft

Battery Usage

Standard Option	
Cold Cranking Amperage (CCA)	600 A
Reserve Capacity Rating	115 Minutes
Replacement Battery Number	78-6YR
YF2 (Ambulance upfitter) Option	
Cold Cranking Amperage (CCA)	690 A
Reserve Capacity Rating	115 Minutes
Replacement Battery Number	78-7YR
8Y9 (Dual Batteries) Option	
Cold Cranking Amperage (CCA)	770 A
Reserve Capacity Rating	115 Minutes
Replacement Battery Number	78-7YR

Battery Temperature vs Minimum Voltage

Estimated Temperature °F	Estimated Temperature °C	Minimum Voltage
70 or above	21 or above	9.6
50	10	9.4
32	0	9.1
15	-10	8.8
0	-18	8.5
Below 0	Below -18	8.0

Generator Usage

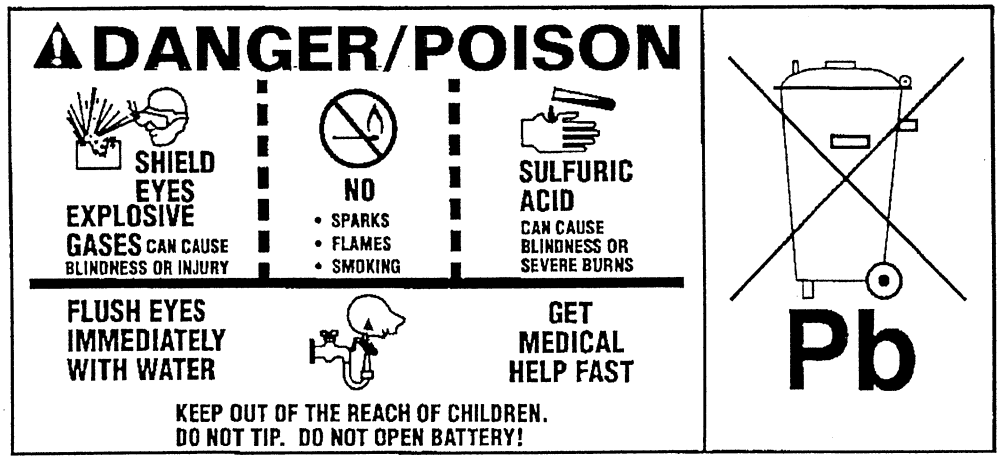
Base	
Generator Model	AD230
Rated Output	105 A
Load Test Output	73 A
Optional	
Generator Model	AD244
Rated Output	145 A
Load Test Output	102 A

Battery Description and Operation

Caution

Batteries produce explosive gases, contain corrosive acid, and supply levels of electrical current high enough to cause burns. Therefore, to reduce the risk of personal injury when working near a battery:

- **Always shield your eyes and avoid leaning over the battery whenever possible.**
- **Do not expose the battery to open flames or sparks.**
- **Do not allow the battery electrolyte to contact the eyes or the skin. Flush immediately and thoroughly any contacted areas with water and get medical help.**
- **Follow each step of the jump starting procedure in order.**
- **Treat both the booster and the discharged batteries carefully when using the jumper cables.**



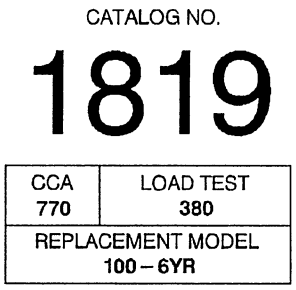
The maintenance free battery is standard. There are no vent plugs in the cover. The battery is completely sealed except for two small vent holes in the side. These vent holes allow the small amount of gas that is produced in the battery to escape.

The battery has three functions as a major source of energy:

- Engine cranking
- Voltage stabilizer
- Alternate source of energy with generator overload.

The battery specification label (example below) contains information about the following:

- The test ratings
- The original equipment catalog number
- The recommended replacement model number



A battery has 2 ratings:

- Reserve capacity
- Cold cranking amperage

When a battery is replaced use a battery with similar ratings. Refer to the battery specification label on the original battery or refer to Battery Usage .

Reserve Capacity

Reserve capacity is the amount of time in minutes it takes a fully charged battery, being discharged at a constant rate of 25 amperes and a constant temperature of 27°C (80°F) to reach a terminal voltage of 10.5 V. Refer to Battery Usage for the reserve capacity rating of the original equipment battery.

Cold Cranking Amperage

The cold cranking amperage is an indication of the ability of the battery to crank the engine at cold temperatures. The cold cranking amperage rating is the minimum amperage the battery must maintain for 30 seconds at -18°C (0°F) while maintaining at least 7.2 volts. Refer to Battery Usage for the cold cranking amperage rating for this vehicle.

Circuit Description

The battery positive terminal supplies Battery Positive voltage to the under hood fuse block and the rear fuse block. The under hood fuse block provides a cable connection for the generator and a cable connection for the starter.

The battery negative terminal is connected to chassis ground G305 and supplies ground for the AD converter in the DIM.

Starting System Description and Operation

The PG-260 is a non-repairable starter motor. It has pole pieces that are arranged around the armature within the starter housing. When the solenoid windings are energized, the pull-in winding circuit is completed to ground through the starter motor. The hold-in winding circuit is completed to ground through the solenoid. The windings work together magnetically to pull in and hold in the plunger. The plunger moves the shift lever. This action causes the starter drive assembly to rotate on the armature shaft spline as it engages with the flywheel ring gear on the engine. At the same time, the plunger closes the solenoid switch contacts in the starter solenoid. Full battery voltage is then applied directly to the starter motor and it cranks the engine.

As soon as the solenoid switch contacts close, current stops flowing thorough the pull-in winding as battery voltage is now applied to both ends of the windings. The hold-in winding remains energized; its magnetic field is strong enough to hold the plunger, shift lever, starter drive assembly, and solenoid switch contacts in place to continue cranking the engine. When the engine starts, the pinion gear overrun sprag protects the armature from excessive speed until the switch is opened.

When the ignition switch is released from the CRANK position, voltage is removed from the starter solenoid S terminal. Current flows from the motor contacts through both windings to ground at the end of the hold-in winding. However, the direction of the current flow through the pull-in winding is now in the opposite direction of the current flow when the winding was first energized.

The magnetic fields of the pull-in and hold-in windings now oppose one another. This action of the windings, along with the help of the return spring, cause the starter drive assembly to disengage and the solenoid switch contacts to open simultaneously. As soon as the contacts open, the starter motor is turned off.

Charging System Description and Operation

Generator

The CS130 generator is non-repairable. It is electrically similar to earlier models. The generator feature the following major components:

- The delta stator
- The rectifier bridge
- The rotor with slip rings and brushes
- A conventional pulley
- Dual internal fans
- A voltage regulator

The pulley and the fan cool the slip ring and the frame.

The CS stands for charging system and 130 is the measurement in millimeters, of the outside diameter of the stator laminations. The generator is rated at 100 amperes.

The generator features permanently lubricated bearings. Service should only include the tightening of mounting components. Otherwise, the generator is replaced as a complete unit.

Regulator

The voltage regulator controls the rotor field current in order to limit the system voltage. When the field current is on, the regulator switches the current on and off at a rate of 400 cycles per second in order to perform the following functions:

- Radio noise control
- Obtain the correct average current needed for proper system voltage control

At high speeds, the on-time may be 10 percent with the off-time at 90 percent. At low speeds, the on-time may be 90 percent and the off-time 10 percent.

Charging System Indicator

The IPC illuminates the battery indicator when the following occurs:

- The generator output is less than 11 volts or greater than 16 volts (switched low).
- The IPC performs the displays test at the start of each ignition cycle. The indicator illuminates for approximately 3 seconds.
- The ignition is on, with the engine off.

Engine Controls

Engine Controls – 4.3L

Ignition System Specifications

Application	Specification	
	Metric	English
Firing Order	1-6-5-4-3-2	
Spark Plug Wire Resistance	1,000 ohms per ft	
Spark Plug Torque	15 N·m	11 lb ft
Spark Plug Gap	1.52 mm	0.06 in
Spark Plug Type	R41-932 [AC plug type]	

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Accelerator Control Cable Bracket Fasteners	12 N·m	106 lb in
Accelerator Pedal Assembly Mounting Bolts	5 N·m	44 lb in
AIR Hose Assembly Mounting Bolts	25 N·m	18 lb ft
AIR Hose Assembly Retainer Bolts	40 N·m	30 lb ft
AIR Hose Retainer Clip Locknut	10 N·m	89 lb in
AIR Pump Assembly Hold-Down Block Bolt	25 N·m	18 lb ft
AIR Pump Assembly Mounting Bolts	25 N·m	18 lb ft
AIR Solenoid Mounting Bracket Fastener	4 N·m	35 lb in
Air Cleaner Assembly Bolts	18 N·m	13 lb ft
Air Cleaner Outlet Duct Nut	2 N·m	18 lb in
Air Cleaner Outlet Resonator Adapter Stud	8 N·m	71 lb in
Air Shield Mounting Bolts	33 N·m	24 lb ft
Camshaft Position Sensor Screws	2.2 N·m	20 lb in
Crankshaft Position Sensor Mounting Bolt	8 N·m	71 lb in
Distributor Cap Screws	2.4 N·m	21 lb in
Distributor Mounting Clamp Bolt	25 N·m	18 lb ft
Distributor Rotor Retaining Screws	2 N·m	18 lb in
Distributor Rotor to Reluctor Wheel Screws	19.5 N·m	14 lb ft
EGR Pipe to Exhaust Manifold	25 N·m	18 lb ft
EGR Pipe to Intake Manifold	10 N·m	89 lb in
EGR Retaining Fastener to Pipe Bracket	25 N·m	18 lb ft
EGR Valve Attaching Bolts	25 N·m	18 lb ft
Engine Coolant Temperature (ECT) Sensor	20 N·m	15 lb ft
Evaporative Emission (EVAP) Canister Bracket Bolt	12 N·m	106 lb in
Exhaust Gas Recirculation (EGR) Pipe to Exhaust Manifold Fittings	30 N·m	22 lb ft
Fuel and EVAP Pipe Retainer Nut	28 N·m	21 lb ft
Fuel Fill Hose Clamp	2.75 N·m	24 lb in
Fuel Injector Retainer Locknuts	3 N·m	27 lb in
Fuel Pipe Attaching Nuts	27 N·m	20 lb ft
Fuel Pipe Bracket Retaining Bolt	6 N·m	53 lb in
Fuel Pipe Fittings	27 N·m	20 lb ft
Fuel Pipe Retainer Clip Nut	28 N·m	21 lb ft
Fuel Pipe Retainer Nuts	3 N·m	27 lb in
Fuel Pipe Retaining Clips Bolts	12 N·m	106 lb in
Fuel Tank Strap Attaching Bolts	20.5 N·m	15 lb ft
Heated Oxygen Sensor (HO2S)	42 N·m	31 lb ft
Idle Air Control (IAC) Valve Attaching Fastener	3 N·m	27 lb in

Application	Specification	
	Metric	English
Ignition Coil Mounting Screws	11 N·m	97 lb in
Ignition Control Module (ICM) Mounting Screws	3.5 N·m	31 lb in
Knock Sensor (KS) Bolt	25 N·m	18 lb ft
Mass Air Flow (MAF) Sensor Clamps	4 N·m	35 lb in
Powertrain Control Module (PCM) Connector End Fasteners	8 N·m	71 lb in
Purge Valve Mounting Nuts	12 N·m	106 lb in
Spark Plugs - New Aluminum Heads	20 N·m	15 lb ft
Spark Plugs - New Iron Heads	30 N·m	22 lb ft
Spark Plugs - Used Heads	15 N·m	11 lb ft
Steering Linkage Shield Mounting Bolts	33 N·m	24 lb ft
Throttle Body Assembly Retaining Studs	9 N·m	80 lb in
Throttle Position (TP) Sensor Fasteners	2 N·m	18 lb in
Upper Manifold Bolts	8 N·m	71 lb in
Upper Manifold Nuts	8 N·m	71 lb in
Vacuum Module Attaching Bolts	8 N·m	71 lb in

Fuel System Specifications

See Fuel System Specifications below.

Engine Controls – 4.8L, 5.3 & 6.0L

Ignition System Specifications

Application	Specification	
	Metric	English
Firing Order	1-8-7-2-6-5-4-3	
Spark Plug Wire Resistance	1000 ohms per ft	
Spark Plug Torque	15 N·m	11 lb ft
Spark Plug Gap	1.52 mm	0.060 in
Spark Plug Type	25171803 [AC plug type] 12567759 [NGK plug type]	

Fastener Tightening Specifications

Application	Specifications	
	Metric	English
Accelerator Control Cable Bracket Bolts	10 N·m	89 lb in
Accelerator Pedal Mounting Bolts	20 N·m	15 lb ft
Camshaft Position (CMP) Sensor Bolt	29 N·m	21 lb ft
Crankshaft Position (CKP) Sensor Bolt	25 N·m	18 lb ft
Engine Coolant Temperature (ECT) Sensor	20 N·m	15 lb ft
EGR (Exhaust Gas Recirculation) Valve Bolts (First Pass)	10 N·m	89 lb in
EGR Valve Bolts (Final Pass)	25 N·m	18 lb ft
EGR Valve Pipe-to-Cylinder Head Bolts	50 N·m	37 lb ft
EGR Valve Pipe-to-Exhaust Manifold Bolts	25 N·m	18 lb ft
EGR Valve Pipe-to-Intake Manifold	12 N·m	106 lb in
Engine Wiring Harness Retaining Nut	5.5 N·m	49 lb in
EVAP Canister Bracket Bolt	25 N·m	18 lb ft
EVAP Canister Mounting Bolt	25 N·m	18 lb ft
EVAP Canister Mounting Nuts	10 N·m	89 lb in
EVAP Canister Purge Valve Shoulder Bolt	10.5 N·m	93 lb in
EVAP Canister Vent Valve Bracket Mount Bolt	12 N·m	106 lb in
Fuel Fill Hose Clamp	2.75 N·m	24 lb in
Fuel Fill Pipe Bracket Bolt	6 N·m	53 lb in
Fuel Fill Pipe Ground Strap Bolt	9 N·m	80 lb in

Application	Specifications	
	Metric	English
Fuel Fill Pipe Housing to Fill Pipe Bolts	2.3 N·m	20 lb in
Fuel Fill Vent Hose Clamps	2.75 N·m	24 lb in
Fuel Filler Bracket Bolt	12 N·m	106 lb in
Fuel Filter Fitting	27 N·m	20 lb ft
Fuel Rail Attaching Bolts	10 N·m	89 lb in
Fuel Rail Crossover Pipe Retainer Clip Attaching Screw	3.8 N·m	34 lb in
Fuel Return Pipe Attaching Screw	5 N·m	44 lb in
Fuel Tank Strap Bolts	20.5 N·m	15 lb ft
Heated Oxygen Sensor (HO2S)	42 N·m	31 lb ft
Idle Air Control (IAC) Valve Attaching Screws	3 N·m	27 lb in
Ignition Coil Mounting Bolts	8 N·m	71 lb in
Intake Manifold Sight Shield Fasteners	10 N·m	89 lb in
Knock Sensor (KS)	20 N·m	15 lb ft
MAF/IAT Attaching Bolts	11 N·m	97 lb in
Powertrain Control Module (PCM) Connector End Bolts	8 N·m	71 lb in
Throttle Body Attaching Bolts and Nuts	10 N·m	89 lb in
Throttle Position (TP) Sensor Attaching Screws	2 N·m	18 lb in
Upper Engine Wiring Harness Nut	5.5 N·m	49 lb in

Fuel System Specifications

Use regular unleaded gasoline rated at 87 octane or higher. It is recommended that the gasoline meet specifications which have been developed by the American Automobile Manufacturers Association (AAMA) and endorsed by the Canadian Motor Vehicle Manufacturers Association for better vehicle performance and engine protection. Gasoline meeting the AAMA specification could provide improved driveability and emission control system performance compared to other gasoline. For more information, write to: American Automobile Manufacturer's Association, 7430 Second Ave, Suite 300, Detroit MI 48202.

Be sure the posted octane is at least 87. If the octane is less than 87, you may get a heavy knocking noise when you drive. If it is bad enough, it can damage your engine.

If you're using fuel rated at 87 octane or higher and you hear heavy knocking, your engine needs service. Don't worry if you hear a little pinging noise when you're accelerating or driving up a hill. That is normal and you don't have to buy a higher octane fuel to get rid of pinging. It is the heavy, constant knock that means you have a problem.

Notice

Your vehicle was not designed for fuel that contains methanol. Do not use methanol fuel which can corrode metal parts in your fuel system and also damage plastic and rubber parts. This kind of damage would not be covered under your warranty.

If your vehicle is certified to meet California Emission Standards, indicated on the under hood emission control label, your vehicle is designed to operate on fuels that meet California specifications. If such fuels are not available in states adopting California emissions standards, your vehicle will operate satisfactorily on fuels meeting federal specifications, but emission control system performance may be affected. The malfunction indicator lamp on your instrument panel may turn ON and/or your vehicle may fail a smog-check test. If this occurs, return to your authorized dealer for diagnosis to determine the cause of failure. In the event there is a determination that the cause of the condition is the type of fuels used, repairs may not be covered by your warranty.

Some gasolines that are not reformulated for low emissions may contain an octane-enhancing additive called methylcyclopentadienyl manganese tricarbonyl (MMT). Ask your service station operator whether or not the fuel contains MMT.

Engine Controls – 6.6L Diesel

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Accelerator Pedal Bolt	9N·m	80 lb in
Air Cleaner Housing Door Screw	4 N·m	35 lb in
Air Cleaner Outlet Duct Clamp	4 N·m	35 lb in
Air Conditioning Compressor Bolt	50 N·m	37 lb ft
Air Conditioning Compressor/Power Steering Bracket Bolt	46 N·m	34 lb ft
Air Inlet Tube Nut	25 N·m	18 lb ft
Air Inlet Tube to Intake Manifold Tube Bolt/Nut	10 N·m	89 lb in
Battery Positive Cable Junction Block Bracket Bolt	9 N·m	80 lb in
Camshaft Position (CMP) Sensor Bolt	10 N·m	89 lb in
Charged Air Cooler Duct Clamp	6 N·m	53 lb in
Crankshaft Position (CKP) Sensor Bolt	10 N·m	89 lb in
Crankshaft Position Sensor (CKP) Sensor Spacer Bolt	10 N·m	89 lb in
Drive Belt Tensioner Bolt	50 N·m	37 lb ft
Electrical Harness Bolt	4 N·m	35 lb in
Electronic Brake Control Module Bracket Bolt	25 N·m	18 lb ft
Engine Coolant Temperature (ECT) Sensor	20 N·m	15 lb ft
Engine Harness Main Electrical Connector Bolt	10 N·m	89 lb in
Engine Harness Power Lead Nut	10 N·m	89 lb in
Engine Wiring Harness Main Connector Bracket Bolt	21 N·m	15 lb ft
Engine Wiring Harness Ground Bolt	34 N·m	25 lb ft
Exhaust Gas Recirculation (EGR) Coolant Pipe Bolt	25 N·m	18 lb ft
Exhaust Gas Recirculation (EGR) Cooler Heat Protector Bolt	25 N·m	18 lb ft
Exhaust Gas Recirculation (EGR) Cooler Tube Bolt	50 N·m	37 lb ft
Exhaust Gas Recirculation (EGR) Cooler Tube Rear Bolt	20 N·m	15 lb ft
Exhaust Gas Recirculation (EGR) Valve/Solenoid Bolt	20 N·m	15 lb ft
Fuel Bundle Nut	16 N·m	12 lb ft
Fuel Cooler Bolt	18 N·m	13 lb ft
Fuel Cooler Bracket Bolt	18 N·m	13 lb ft
Fuel Cooler Nut	40 N·m	30 lb ft
Fuel Feed Pipe Bolt/Nut	25 N·m	18 lb ft
Fuel Feed Pipe Nut	41 N·m	30 lb ft
Fuel Filter Bracket Bolt	20 N·m	15 lb ft
Fuel Filter Bracket to Fuel Filter/Heater Element Housing	20 N·m	15 lb ft
Fuel Injection Pump Adapter Bolt	20 N·m	14 lb ft
Fuel Injection Pump Bolt	21 N·m	15 lb ft
Fuel Injection Pump Gear Nut	70 N·m	52 lb ft
Fuel Injector Bracket Bolt	30 N·m	22 lb ft
Fuel Injector Pipe Fitting	41 N·m	30 lb ft
Fuel Inlet Pipe to Fuel Rail Fitting	41 N·m	30 lb ft
Fuel Line Bracket Nut	16 N·m	12 lb ft
Fuel Line to Balance Pump Fitting	30 N·m	22 lb ft
Fuel Pipe Bracket Bolt	25 N·m	18 lb ft
Fuel Pressure Regulator Screws		
First Pass	4 N·m	35 lb in
Final Pass	7 N·m	62 lb in
Fuel Rail Balance Pipe Bolt	25 N·m	18 lb ft
Fuel Rail Balance Pipe Fitting	41 N·m	30 lb ft
Fuel Rail Bolt	25 N·m	18 lb ft

Application	Specification	
	Metric	English
Fuel Rail Feed Pipe Fitting	41 N·m	30 lb ft
Fuel Rail Pipe Clamp Bolt	25 N·m	18 lb ft
Fuel Return Line Clamp Bolt	25 N·m	18 lb ft
Fuel Tank Fill Pipe Clamp	2.5 N·m	22 lb in
Fuel Tank Filler Housing to Body Screw	2.3 N·m	20 lb in
Fuel Tank Filler Housing to Fuel Tank Fill Pipe Screw	2.3 N·m	20 lb in
Fuel Tank Ground Strap Bolt	9 N·m	80 lb in
Fuel Tank Shield Bolt	18 N·m	13 lb ft
Fuel Tank Strap Bolt	40 N·m	30 lb ft
Fuel Tank Vent Hose Clamp	2.5 N·m	22 lb in
Fuel Temperature Sensor	22 N·m	16 lb ft
Generator Bracket Bolt	46 N·m	34 lb ft
Glow Plug	18 N·m	13 lb ft
Glow Plug Control Module Bolt	10 N·m	89 lb in
Glow Plug Electrical Connector Nut	2 N·m	18 lb in
Glow Plug Harness Nut	1.7 N·m	15 lb in
Glow Plug Wiring Harness Bracket Bolt	10 N·m	89 lb in
Heater Outlet Hose Bolt	21 N·m	15 lb ft
Intake Air Heater Bolt	20 N·m	15 lb ft
Intake Air Temperature (IAT) Sensor	25 N·m	18 lb ft
Manifold Absolute Pressure (MAP) Sensor Bolt	10 N·m	89 lb in
Mass Air Flow (MAF)/Intake Air Temperature (IAT) Sensor Screw	8 N·m	70 lb in
Oil Level Indicator Tube Bolt	21 N·m	15 lb ft
Oil Level Indicator Tube Bracket Bolt	21 N·m	15 lb ft
Oil Level Sensor Harness Bolt	40 N·m	30 lb ft
Power Steering Pump Bracket Rear Bolts	50 N·m	37 lb ft
Return/Junction Block Fuel Line Clip	25 N·m	17 lb ft
Turbocharger Oil Feed Pipe Bolt	34 N·m	25 lb ft
Turbocharger Vane Position Control Solenoid Valve Bracket Bolt	23 N·m	18 lb ft
Turbocharger Vane Position Sensor	28 N·m	21 lb ft

Fuel System Specifications

What Fuel to Use in the United States

In the United States, for best results use Number 2-D diesel fuel year-round, above and below freezing conditions, as oil companies blend Number 2-D fuel to address climate differences. Number 1-D diesel fuel may be used in very cold temperatures when the temperature stays below -18°C (0°F). However, the fuel will produce a power and fuel economy loss. The use of Number 1-D diesel fuel in warm or hot climates may result in stalling, poor starting when the engine is hot and may damage the fuel injection system.

Diesel fuel may foam when filling the tank. This can cause the automatic pump nozzle to shut OFF, even though the tank is not full. If this happens, just wait for the foaming to stop and then continue to fill the tank.

What Fuel to Use in Canada

Canadian fuels are blended for seasonal changes. Diesel Type A fuel is blended for better cold weather starting, when it stays below -18°C (0°F). However, the fuel will produce a power and fuel economy loss. The use of Type A diesel fuel in warmer climates may result in stalling, poor starting. Diesel Type B fuel is blended for temperatures above -18°C (0°F). The emission control system requires the use of diesel fuel with low sulfur, 0.05 percent by weight , content. Both low and higher sulfur fuels will be available in Canada. Only low sulfur diesel fuels are available in the United States. Diesel-powered trucks must be

refueled only with low sulfur fuel. Use of fuels with higher-sulfur content will affect the function of the emission components and may caused reduced performance, excessive smoke and unpleasant odor.

Very Cold Weather Operation

If the vehicle is driven in very cold temperatures and can not get a winterized Number 2-D that has been adapted to cold weather or a Number 1-D, use one gallon of kerosene for every 2 gallons of diesel fuel. Once you add kerosene, run the engine for several minutes to mix the fuels. Only add kerosene when the temperature falls below -18°C (0°F), because the fuel economy and lubricating qualities of kerosene is not as good as that of diesel fuel.

In cold weather , the fuel filter may become clogged (waxed). To unclog the filter, move the vehicle to a warm garage area and warm the filter to a temperature between 0-10°C (32-50°F). Replacing the filter is not necessary.

Fuel Specific Gravity Testing

Use a J 38641-B Diesel Fuel Quality Tester to measure the fuel specific gravity (API Rating). Follow the instructions on the tool to btain the proper temerpature-adjusted value. This information must be accurate for the proper diagnosis of the fuel system.

Water in Fuel

Sometimes, water can be pumped into the fuel tank along with diesel fuel. This can happen if the service station does not regularly inspect and clean their fuel tanks, or the fuel gets contaminated for the service stations suppliers.

If water is pumped into the fuel tank, a water in fuel light will illuminate. If the water in fuel light illuminates, the excess water must be drained from the fuel system on the vehicle.

Very Cold Weather Operation

If the vehicle is driven in very cold temperatures and can not get a winterized Number 2-D that has been adapted to cold weather or a Number 1-D, use one gallon of kerosene for every 2 gallons of diesel fuel. Once you add kerosene, run the engine for several minutes to mix the fuels. Only add kerosene when the temperature falls below -18°C (0°F), because the fuel economy and lubricating qualities of kerosene is not as good as that of diesel fuel.

In cold weather , the fuel filter may become clogged (waxed). To unclog the filter, move the vehicle to a warm garage area and warm the filter to a temperature between 0-10°C (32-50°F). Replacing the filter is not necessary.

Use of Biodiesel Fuel

For fleets requiring compliance to Executive order 13149 (EPACT credit mandate), a minimum B20 biodiesel blend is needed to qualify. For these users only, it is acceptable to use diesel fuel containing up to 20% biodiesel (B20). Do not use biodiesel blends in excess of 20% (B20). Higher concentration (i.e., greater than 20%) biodiesel-containing fuels or other unmodified bio-oils blended into diesel fuel at any concentration is not recommended. The biodiesel portion used to make the blend must meet the latest version of ASTM D 6751, Standard Specification for Biodiesel Fuel (B100) Blend Stock for Distillate Fuels.

Notice: Raw or refined vegetable oil, or recycled greases that have not been processed into biodiesel, are not biodiesel and should not be used. The use of unprocessed oil and greases blended into diesel fuel or degraded (aged) biodiesel could damage your fuel system and engine. Such damage would not be covered by your warranty.

If there are questions about the biodiesel-containing fuels you are using, contact your fuel supplier.

Some points you should be aware of when using up to B20 blends are:

- Biodiesel has less energy content than standard diesel fuel. If you are using B20, power, torque and fuel economy should be between 1% and 2% lower compared to standard diesel fuel. As the percent biodiesel in the blend is lowered, any differences in energy content become diminished.

- Biodiesel has a cleaning effect on accumulated sediments in tanks, and filter plugging may be experienced during the use of B20.
- Biodiesel has a greater tendency to oxidize than the standard diesel fuel, and thus, has a shorter storage life than standard diesel fuel. Frequent turnover of fuel in the tank is recommended to minimize problems.
- Biodiesel reduces the surface tension of the blended fuel, which results in the water separator coalescing element in your vehicle's fuel filter to be ineffective. Any water in the fuel will pass through the filter and may cause corrosion damage to the fuel system.

Notice: Any damage caused by the biodiesel fuel that does not meet this specification is not covered by your warranty.

Exhaust System

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Exhaust Gas Recirculation (EGR) Cooler Tube Nut (6.6L)	30 N·m	20 lb ft
Exhaust Hanger Bracket Bolt	12 N·m	106 lb in
Exhaust Heat Shield Bolt (Body Panel)	9 N·m	80 lb in
Exhaust Heat Shield Nut (Body Panel)	9 N·m	80 lb in
Exhaust Manifold Bolts (4.8L, 5.3L, and 6.0L)		
First Pass	15 N·m	11 lb ft
Final Pass	25 N·m	18 lb ft
Exhaust Manifold Bolt/Nut (6.6L)	34 N·m	25 lb ft
Exhaust Manifold Bolt/Stud (4.3L)	30 N·m	22 lb ft
Exhaust Manifold Center Bolt (8.1L)	35 N·m	26 lb ft
Exhaust Manifold Heat Shield Bolt (4.3L, 4.8L, 5.3L, and 6.0L)	9 N·m	80 lb in
Exhaust Manifold Heat Shield Bolt (6.6L)	8 N·m	71 lb in
Exhaust Manifold Heat Shield Bolt/Nut (8.1L)	25 N·m	18 lb ft
Exhaust Manifold Nut (8.1L)	16 N·m	12 lb ft
Exhaust Manifold Pipe Nut	50 N·m	37 lb ft
Exhaust Muffler Hanger Nut	50 N·m	39 lb ft
Exhaust Muffler Nut	40 N·m	30 lb ft
Exhaust Outlet Pipe Clamp (6.6L)	15 N·m	11 lb ft
Exhaust Outlet to Right Exhaust Pipe Bracket Bolt (6.6L)	34 N·m	25 lb ft
Exhaust Pipe Clamp	44 N·m	33 lb ft
Exhaust Pipe Hanger Bracket Bolt	12 N·m	106 lb in
Exhaust Pipe Hanger Bracket Bolt (4L60-E)	17 N·m	13 lb if
Exhaust Pipe Heat Shield Bolt (6.6L)	8 N·m	71 lb in
Exhaust Pipe to Manifold Bolt (6.6L)	53 N·m	39 lb ft
Exhaust Pipe to Turbocharger Bolt (6.6L)	53 N·m	39 lb ft
Hood Hinge Bolt	25 N·m	18 lb ft
Intake Manifold Cover Clamp (6.6L)	6 N·m	53 lb in
Oil Level Indicator Tube Bracket Bolt (6.6L)	21 N·m	15 lb ft
Outlet Duct Clamp	6 N·m	53 lb in
Oxygen Sensor	42 N·m	31 lb ft
Rear Shock Absorber Lower Bolt	95 N·m	70 lb ft
Spark Plug (4.3L)	15 N·m	11 lb ft
Spark Plug Wire Retainer Bolt (4.3L)	12 N·m	106 lb in
Transmission Bolt	100 N·m	74 lb ft
Transmission Fluid Fill Tube Nut (6.6L)	18 N·m	13 lb ft
Transmission Mount to Support Nut	40 N·m	30 lb ft
Transmission Support Crossmember Bolt	95 N·m	70 lb ft

Application	Specification	
	Metric	English
Turbocharger Exhaust Pipe Bolt/Nut (6.6L)	53 N·m	39 lb ft
Turbocharger Exhaust Pipe Heat Shield Bolt (6.6L)	8 N·m	71 lb in
Turbocharger Heat Shield Bolt (6.6L)	9 N·m	80 lb in

Exhaust System Description

Important

Use of non-OEM parts may cause driveability concerns.

The exhaust system design varies according to the model designation and the intended use of the vehicle.

In order to secure the exhaust pipe to the exhaust manifold, the exhaust system utilizes a flange and seal joint coupling. A flange and gasket coupling secures the catalytic converter assembly to the muffler assembly.

Hangers suspend the exhaust system from the underbody, allowing some movement of the exhaust system and disallowing the transfer of noise and vibration into the vehicle.

Heat shields protect the vehicle from the high temperatures generated by the exhaust system.

Exhaust Pipe Description

The exhaust system's design will vary, according to the model designation and the intended use of the vehicle. In order to secure the exhaust pipe to the exhaust manifold, the exhaust system utilizes flange and seal-joint coupling. Subsequent connections in the exhaust system utilize a slip-joint coupling design, with a clamp and a U-bolt.

Catalytic Converter

The catalytic converter is an emission control device added to the engine exhaust system in order to reduce hydrocarbons (HC), carbon monoxide (CO), and oxides of nitrogen (NOx) pollutants from the exhaust gas.

The catalytic converter is comprised of a ceramic monolith substrate, supported in insulation and housed within a sheet metal shell. The substrate may be washcoated with 3 noble metals:

- Platium (Pt)
- Palladium (Pd)
- Rhodium (Rh)

The catalyst in the converter is not serviceable.

Muffler

The muffler controls the exhaust noise levels. On some models, the muffler services with the exhaust pipe, not alone as a complete unit.

Hangers Description

Hangers, attached to the frame, suspend the exhaust system. This allows some exhaust system movement, but not the transfer of noise and vibration into the vehicle.

Clamps Description

Flat flanges and single-nut compression are two types of clamps used for connecting the exhaust system joints. Prior to assembly, be sure to coat the slip-joints with the exhaust system sealer GM P/N 9985020 in order to prevent leakage.

Transmission/Transaxle Description and Operation

Automatic Transmission – 4L60E

Transmission General Specifications

Name	Hydra-matic 4L60-E
RPO Codes	M30
Production Location	Toledo, Ohio Romulus, MI Ramos Arizpe, Mexico
Vehicle Platform (Engine/Transmission) Usage	G/H
Transmission Drive	Longitudinally-Mounted Rear Wheel Drive
1st Gear Ratio	3.059:1
2nd Gear Ratio	1.625:1
3rd Gear Ratio	1.000:1
4th Gear Ratio	0.696:1
Reverse	2.294:1
Torque Converter Size (Diameter of Torque Converter Turbine)	300 mm
Pressure Taps	Line Pressure
Transmission Fluid Type	DEXRON® VI
Transmission Fluid Capacity (Approximate)	300 mm Converter Dry: 11.50 l (12.1 qt)
Transmission Type: 4	Four Forward Gears
Transmission Type: L	Longitudinal Mount
Transmission Type: 60	Product Series
Transmission Type: E	Electronic Controls
Position Quadrant	P, R, N, Overdrive, D, 2, 1 P, R, N, Overdrive, 3, 2, 1
Case Material	Die Cast Aluminum
Transmission Weight Dry (Approximate)	300 mm Converter 86.17 kg (190.5 lb)
Transmission Weight Wet (Approximate)	300 mm Converter 98.4 kg (218.0 lb)
Maximum Trailer Towing Capacity	6 130 kg (13,500 lb)
Maximum Gross Vehicle Weight (GVW)	3 900 kg (8,600 lb)

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Accumulator Cover to Case Bolt	8-14 N·m	71-124 lb in
Case Extension to Case Bolt	42-48 N·m	31-35 lb ft
Case Extension to Case Bolt (4WD Shipping)	11.2-22.6 N·m	8.3-16.7 lb ft
Converter Cover Bolt	10 N·m	89 lb in
Converter Housing to Case Screw	65-75 N·m	48-55 lb ft
Cooler Pipe Connector	35-41 N·m	26-30 lb ft
Detent Spring to Valve Body Bolt	20-27 N·m	15-20 lb ft
Floorshift Control Bolt	10 N·m	89 lb in
Flywheel to Torque Converter Bolt	63 N·m	46 lb ft
Forward Accumulator Cover to Valve Body Bolt	8-14 N·m	71-124 lb in
Heat Shield to Transmission Bolt	17 N·m	13 lb ft
Line Pressure Plug	8-14 N·m	71-124 lb in
Manual Shaft to Inside Detent Lever Nut	27-34 N·m	20-25 lb ft
Negative Battery Cable Bolt	15 N·m	11 lb ft
Oil Level Indicator Bolt	47 N·m	35 lb ft

Application	Specification	
	Metric	English
Oil Pan to Transmission Case Bolt	11 N·m	97 lb in
Oil Passage Cover to Case Bolt	8-14 N·m	71-124 lb in
Park Brake Bracket to Case Bolt	27-34 N·m	20-25 lb ft
Park/Neutral Position Switch Screw	3 N·m	27 lb in
Plate to Case Bolt (Shipping)	27-34 N·m	20-25 lb ft
Plate to Converter Bolt (Shipping)	27-34 N·m	20-25 lb ft
Pressure Control Solenoid Bracket to Valve Body Bolt	8-14 N·m	71-124 lb in
Pump Assembly to Case Bolt	26-32 N·m	19-24 lb ft
Pump Cover to Pump Body Bolt	20-27 N·m	15-20 lb ft
Shift Cable Grommet Screw	1.7 N·m	15 lb in
Shift Control Cable Attachment	20 N·m	15 lb ft
Speed Sensor Retainer Bolt	10.5-13.5 N·m	93-119 lb in
TCC Solenoid Assembly to Case Bolt	8-14 N·m	71-124 lb in
Transmission Fluid Pressure Manual Valve Position Switch to Valve Body Bolt	8-14 N·m	71-124 lb in
Transmission Mount to Transmission Bolt	50 N·m	37 lb ft
Transmission Oil Cooler Pipe Fitting	35-41 N·m	26-30 lb ft
Transmission Oil Pan to Case Bolt	9.5-13.8 N·m	84-122 lb in
Transmission to Engine Bolt	47 N·m	35 lb ft
Valve Body to Case Bolt	8-14 N·m	71-124 lb in

Fluid Capacity Specifications

Application	Specification	
	Metric	English
Bottom Pan Removal	4.7 liters	5 quarts
Complete Overhaul	10.6 liters	11 quarts
(measurements are approximate)		

Transmission Component and System Description

The 4L60E transmission consists primarily of the following components:

- Torque converter assembly
- Servo assembly and 2-4 band assembly
- Reverse input clutch and housing
- Overrun clutch
- Forward clutch
- 3-4 clutch
- Forward sprag clutch assembly
- Lo and reverse roller clutch assembly
- Lo and reverse clutch assembly
- Two planetary gear sets: Input and Reaction
- Oil pump assembly
- Control valve body assembly

The electrical components of the 4L60-E are as follows:

- 1-2 and 2-3 shift solenoid valves
- 3-2 shift solenoid valve assembly
- Transmission pressure control (PC) solenoid
- Torque converter clutch (TCC) solenoid valve
- TCC pulse width modulation (PWM) solenoid valve
- Automatic transmission fluid pressure (TFP) manual valve position switch

- Automatic transmission fluid temperature (TFT) sensor
- Vehicle speed sensor assembly

Adapt Function

Transmission Adapt Function

The 4L60-E transmission uses a line pressure control system, which has the ability to continuously adapt the system's line pressure. This compensates for normal wear of the following parts:

- The clutch fiber plates
- The seals
- The springs

The PCM maintains the Upshift Adapt parameters for the transmission The PCM monitors the AT ISS sensor and the AT OSS during commanded shifts in order to determine if a shift is occurring too fast or too slow. The PCM adjusts the signal from the transmission pressure control solenoid in order to maintain a set shift feel.

Transmission adapts must be reset whenever the transmission is overhauled or replaced.

Automatic Transmission Shift Lock Control Description

The automatic transmission shift lock control is a safety device that prevents an inadvertent shift out of PARK when the ignition is ON. The driver must press the brake pedal before moving the shift lever out of the PARK position. The system consist of the following components:

- The automatic transmission shift lock control solenoid.
- The automatic transmission shift lock control switch.
- The park/neutral position switch.

With the ignition in the ON position battery positive voltage is supplied to the park/neutral position switch. With the transmission in the PARK position the contacts in the park/neutral position switch are closed. This allows current to flow through the switch to the automatic transmission shift lock control switch. The circuit continues through the normally-closed switch to the automatic transmission shift lock control solenoid. The automatic transmssion shift lock control soleniod is permanently grounded. This energizes the automatic transmission shift lock control solenoid, locking the shift linkage in the PARK position. When the driver presses the brake pedal the contacts in the automatic transmission shift lock control switch open, causing the automatic transmission shift lock control solenoid to release. This allows the shift lever to move from the PARK position.

Automatic Transmission – 4L80E

Transmission General Specifications

Name	Hydra-matic 4L80-E
RPO Codes	MT1
Production Location	Ypsilanti, MI
Vehicle Platform (Engine/Transmission) Usage	C/K, C/K 800, G, P32/42
Transmission Drive	Longitudinally Mounted Rear Wheel Drive
1st Gear Ratio	2.482:1
2nd Gear Ratio	1.482:1
3rd Gear Ratio	1.000:1
4th Gear Ratio	0.750:1
Reverse	2.077:1
Torque Converter Size (Diameter of Torque Converter Turbine)	310 mm
Pressure Taps	Line Pressure
Transmission Fluid Type	DEXRON® VI
Transmission Fluid Capacity (Approximate)	Bottom Pan Removal: 7.3L (7.7 qts) Dry: 12.8L (13.5 qts)
Transmission Type: 4	Four Forward Gears
Transmission Type: L	Longitudinal Mount
Transmission Type: 80	Product Series
Transmission Type: E	Electronic Controls
Position Quadrant	P, R, N, Overdrive, D, 2, 1
Case Material	Die Cast Aluminum
Transmission Weight Dry	107 kg (236 lbs)
Transmission Weight Wet	118 kg (260 lbs)
Maximum Trailer Towing Capacity	9,525 kg (21,000 lbs)
Maximum Gross Vehicle Weight (GVW)	7,258 kg (16,000 lbs)

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Accumulator Housing to Valve Body	11 N·m	97 lb in
Case Center Support	44 N·m	32 lb ft
Control Valve Assembly to Case	11 N·m	97 lb in
Cooler Pipe Connector Nut at Case and Radiator	38 N·m	28 lb ft
Engine Rear Mount to Transmission Bolt	44 N·m	32 lb ft
Engine Rear Support Bracket to Frame Nut	44 N·m	32 lb ft
Extension Housing to Case	34 N·m	25 lb ft
Flywheel Housing Cover to Transmission	7 N·m	62 lb in
Flywheel to Converter	44 N·m	32 lb ft
Fourth Clutch	23 N·m	17 lb ft
Manual Shaft to Detent Lever Nut	24 N·m	18 lb ft
Oil Pan Drain Plug	34 N·m	25 lb ft
Oil Pan to Case	24 N·m	18 lb ft
Oil Test Hole Plug	11 N·m	97 lb in
Parking Pawl Bracket to Case	24 N·m	18 lb ft
Pressure Control Solenoid Bracket to Valve Body	8 N·m	71 lb in
Pump Assembly to Case	24 N·m	18 lb ft
Pump Body to Cover	24 N·m	18 lb ft
Rear Servo Cover to Case	24 N·m	18 lb ft
Solenoid to Valve Body	8 N·m	71 lb in

Application	Specification	
	Metric	English
Speed Sensor and Bracket Assembly to Case	11 N·m	97 lb in
Transmission Case to Engine	44 N·m	32 lb ft
Valve Body to Case/Lube Pipe	11 N·m	97 lb in
Valve Body to Case/PSM	11 N·m	97 lb in

Fluid Capacity Specifications Overhaul

Application	Specification	
	Metric	English
Oil Pan Removal	7.3 liters	7.7 quarts
Overhaul	12.8 liters	13.5 quarts

Transmission General Description

The 4L80-E is a fully automatic rear wheel drive electronically controlled transmission. The 4L80-E provides four forward ranges including overdrive and reverse. A gear type of oil pump controls shift points. The VCM/PCM and the pressure control (PC) solenoid (force motor) regulate these shift points. The VCM/PCM also controls shift schedules and TCC apply rates. Transmission temperature also influences shift schedules and TCC apply rates.

You can operate the transmission in any one of the following seven modes:

- P - PARK position prevents the vehicle from rolling either forward or backward on vehicles less than 15,000 G.V.W. For safety reasons, use the parking brake in addition to the park position.
- R - REVERSE allows the vehicle to be operated in a rearward direction.
- N - NEUTRAL allows the engine to be started and operated while driving the vehicle. If necessary, you may select this position in order to restart the engine with the vehicle moving.
- OD - OVERDRIVE is used for all normal driving conditions. Overdrive provides four gear ratios plus a converter clutch operation. Depress the accelerator in order to downshift for safe passing.
- D - DRIVE position is used for city traffic, and hilly terrain. Drive provides three gear ranges. Depress the accelerator in order to downshift.
- 2 - Manual SECOND provides acceleration and engine braking or greater traction from a stop. When you choose manual SECOND, the vehicle will start out in first gear and upshift to second gear. You may select this gear at a vehicle speed of up to 22 km/h (35 mph).
- 1 - Manual LOW provides maximum engine braking. You may select this gear at a vehicle speed of up to 13 km/h (20 mph).

Abbreviations and Meanings

Abbreviation	Meaning
A	
A	Ampere(s)
ABS	Antilock Brake System
A/C	Air Conditioning
AC	Alternating Current
ACC	Accessory, Automatic Climate Control
ACL	Air Cleaner
ACR4	Air Conditioning Refrigerant, Recovery, Recycling, Recharging
AD	Automatic Disconnect
A/D	Analog to Digital
ADL	Automatic Door Lock
A/F	Air/Fuel Ratio
AH	Active Handling
AIR	Secondary Air Injection
ALC	Automatic Level Control, Automatic Lamp Control
AM/FM	Amplitude Modulation/Frequency Modulation
Ant	Antenna
AP	Accelerator Pedal
APCM	Accessory Power Control Module
API	American Petroleum Institute
APP	Accelerator Pedal Position
APT	Adjustable Part Throttle
ASM	Assembly, Accelerator and Servo Control Module
ASR	Acceleration Slip Regulation
A/T	Automatic Transmission/Transaxle
ATC	Automatic Transfer Case, Automatic Temperature Control
ATDC	After Top Dead Center
ATSLC	Automatic Transmission Shift Lock Control
Auto	Automatic
avg	Average
A4WD	Automatic Four-Wheel Drive
AWG	American Wire Gage
B	
B+	Battery Positive Voltage
BARO	Barometric Pressure
BATT	Battery
BBV	Brake Booster Vacuum
BCA	Bias Control Assembly
BCM	Body Control Module
BHP	Brake Horsepower
BLK	Black
BLU	Blue
BP	Back Pressure
BPCM	Battery Pack Control Module
BPMV	Brake Pressure Modulator Valve
BPP	Brake Pedal Position
BRN	Brown

BTDC	Before Top Dead Center
BTM	Battery Thermal Module
BTSI	Brake Transmission Shift Interlock
Btu	British Thermal Units
	C
°C	Degrees Celsius
CAC	Charge Air Cooler
CAFE	Corporate Average Fuel Economy
Cal	Calibration
Cam	Camshaft
CARB	California Air Resources Board
CC	Coast Clutch
cm^3	Cubic Centimeters
CCM	Convenience Charge Module, Chassis Control Module
CCOT	Cycling Clutch Orifice Tube
CCP	Climate Control Panel
CD	Compact Disc
CE	Commutator End
CEAB	Cold Engine Air Bleed
CEMF	Counter Electromotive Force
CEX	Cabin Exchanger
cfm	Cubic Feet per Minute
cg	Center of Gravity
CID	Cubic Inch Displacement
CKP	Crankshaft Position
CKT	Circuit
C/Ltr	Cigar Lighter
CL	Closed Loop
CLS	Coolant Level Switch
CMC	Compressor Motor Controller
CMP	Camshaft Position
CNG	Compressed Natural Gas
CO	Carbon Monoxide
CO2	Carbon Dioxide
Coax	Coaxial
COMM	Communication
Conn	Connector
CPA	Connector Position Assurance
CPP	Clutch Pedal Position
CPS	Central Power Supply
CPU	Central Processing Unit
CRT	Cathode Ray Tube
CRTC	Cathode Ray Tube Controller
CS	Charging System
CSFI	Central Sequential Fuel Injection
CTP	Closed Throttle Position
cu ft	Cubic Foot/Feet
cu in	Cubic Inch/Inches
CV	Constant Velocity Joint
CVRSS	Continuously Variable Road Sensing Suspension

Cyl	Cylinder(s)
	D
DAB	Delayed Accessory Bus
dB	Decibels
dBA	Decibels on A-weighted Scale
DC	Direct Current, Duty Cycle
DCM	Door Control Module
DE	Drive End
DEC	Digital Electronic Controller
DERM	Diagnostic Energy Reserve Module
DI	Distributor Ignition
dia	Diameter
DIC	Driver Information Center
Diff	Differential
DIM	Dash Integration Module
DK	Dark
DLC	Data Link Connector
DMCM	Drive Motor Control Module
DMM	Digital Multimeter
DMSDS	Drive Motor Speed and Direction Sensor
DMU	Drive Motor Unit
DOHC	Dual Overhead Camshafts
DR, Drvr	Driver
DRL	Daytime Running Lamps
DTC	Diagnostic Trouble Code
	E
EBCM	Electronic Brake Control Module
EBTCM	Electronic Brake and Traction Control Module
EC	Electrical Center, Engine Control
ECC	Electronic Climate Control
ECI	Extended Compressor at Idle
ECL	Engine Coolant Level
ECM	Engine Control Module, Electronic Control Module
ECS	Emission Control System
ECT	Engine Coolant Temperature
EEPROM	Electrically Erasable Programmable Read Only Memory
EEVIR	Evaporator Equalized Values in Receiver
EFE	Early Fuel Evaporation
EGR	Exhaust Gas Recirculation
EGR TVV	Exhaust Gas Recirculation Thermal Vacuum Valve
EHPS	Electro-Hydraulic Power Steering
EI	Electronic Ignition
ELAP	Elapsed
ELC	Electronic Level Control
E/M	English/Metric
EMF	Electromotive Force
EMI	Electromagnetic Interference
Eng	Engine
EOP	Engine Oil Pressure
EOT	Engine Oil Temperature

EPA	Environmental Protection Agency
EPR	Exhaust Pressure Regulator
EPROM	Erasable Programmable Read Only Memory
ESB	Expansion Spring Brake
ESC	Electronic Suspension Control
ESD	Electrostatic Discharge
ESN	Electronic Serial Number
ETC	Electronic Throttle Control, Electronic Temperature Control, Electronic Timing Control
ETCC	Electronic Touch Climate Control
ETR	Electronically Tuned Receiver
ETS	Enhanced Traction System
EVAP	Evaporative Emission
EVO	Electronic Variable Orifice
Exh	Exhaust
F	
°F	Degrees Fahrenheit
FC	Fan Control
FDC	Fuel Data Center
FED	Federal All United States except California
FEDS	Fuel Enable Data Stream
FEX	Front Exchanger
FF	Flexible Fuel
FFH	Fuel-Fired Heater
FI	Fuel Injection
FMVSS	Federal U.S. Motor Vehicle Safety Standards
FP	Fuel Pump
ft	Foot/Feet
FT	Fuel Trim
F4WD	Full Time Four-Wheel Drive
4WAL	Four-Wheel Antilock
4WD	Four-Wheel Drive
FW	Flat Wire
FWD	Front Wheel Drive, Forward
G	
g	Grams, Gravitational Acceleration
GA	Gage, Gauge
gal	Gallon
gas	Gasoline
GCW	Gross Combination Weight
Gen	Generator
GL	Gear Lubricant
GM	General Motors
GM SPO	General Motors Service Parts Operations
gnd	Ground
gpm	Gallons per Minute
GRN	Green
GRY	Gray
GVWR	Gross Vehicle Weight Rating

H	
H	Hydrogen
H2O	Water
Harn	Harness
HC	Hydrocarbons
H/CMPR	High Compression
HD	Heavy Duty
HDC	Heavy Duty Cooling
hex	Hexagon, Hexadecimal
Hg	Mercury
Hi Alt	High Altitude
HO2S	Heated Oxygen Sensor
hp	Horsepower
HPL	High Pressure Liquid
HPS	High Performance System
HPV	High Pressure Vapor
HPVS	Heat Pump Ventilation System
Htd	Heated
HTR	Heater
HUD	Head-up Display
HVAC	Heater-Ventilation-Air Conditioning
HVACM	Heater-Vent-Air Conditioning Module
HVIL	High Voltage Interlock Loop
HVM	Heater Vent Module
Hz	Hertz
I	
IAC	Idle Air Control
IAT	Intake Air Temperature
IC	Integrated Circuit, Ignition Control
ICCS	Integrated Chassis Control System
ICM	Ignition Control Module
ID	Identification, Inside Diameter
IDI	Integrated Direct Ignition
IGBT	Insulated Gate Bi-Polar Transistor
ign	Ignition
ILC	Idle Load Compensator
in	Inch/Inches
INJ	Injection
inst	Instantaneous, Instant
IP	Instrument Panel
IPC	Instrument Panel Cluster
IPM	Instrument Panel Module
I/PEC	Instrument Panel Electrical Center
ISC	Idle Speed Control
ISO	International Standards Organization
ISS	Input Speed Shaft, Input Shaft Speed
K	
KAM	Keep Alive Memory
KDD	Keyboard Display Driver
kg	Kilogram

kHz	Kilohertz
km	Kilometer
km/h	Kilometers per Hour
km/l	Kilometers per Liter
kPa	Kilopascals
KS	Knock Sensor
kV	Kilovolts
L	
L	Liter
L4	Four Cylinder Engine, In-Line
L6	Six-Cylinder Engine, In-Line
lb	Pound
lb ft	Pound Feet Torque
lb in	Pound Inch Torque
LCD	Liquid Crystal Display
LDCL	Left Door Closed Locking
LDCM	Left Door Control Module
LDM	Lamp Driver Module
LED	Light Emitting Diode
LEV	Low Emissions Vehicle
LF	Left Front
lm	Lumens
LR	Left Rear
LT	Left
LT	Light
LT	Long Term
LTPI	Low Tire Pressure Indicator
LTPWS	Low Tire Pressure Warning System
M	
MAF	Mass Air Flow
Man	Manual
MAP	Manifold Absolute Pressure
MAT	Manifold Absolute Temperature
max	Maximum
M/C	Mixture Control
MDP	Manifold Differential Pressure
MFI	Multiport Fuel Injection
mi	Miles
MIL	Malfunction Indicator Lamp
min	Minimum
MIN	Mobile Identification Number
mL	Milliliter
mm	Millimeter
mpg	Miles per Gallon
mph	Miles per Hour
ms	Millisecond
MST	Manifold Surface Temperature
MSVA	Magnetic Steering Variable Assist, Magnasteer®
M/T	Manual Transmission/Transaxle
MV	Megavolt

mV	Millivolt
N	
NAES	North American Export Sales
NC	Normally Closed
NEG	Negative
Neu	Neutral
NI	Neutral Idle
NiMH	Nickel Metal Hydride
NLGI	National Lubricating Grease Institute
N·m	Newton-meter Torque
NO	Normally Open
NOx	Oxides of Nitrogen
NPTC	National Pipe Thread Coarse
NPTF	National Pipe Thread Fine
NOVRAM	Non-Volatile Random Access Memory
O	
O2	Oxygen
O2S	Oxygen Sensor
OBD	On-Board Diagnostics
OBD II	On-Board Diagnostics Second Generation
OC	Oxidation Converter Catalytic
OCS	Opportunity Charge Station
OD	Outside Diameter
ODM	Output Drive Module
ODO	Odometer
OE	Original Equipment
OEM	Original Equipment Manufacturer
OHC	Overhead Camshaft
ohms	Ohm
OL	Open Loop, Out of Limits
ORC	Oxidation Reduction Converter Catalytic
ORN	Orange
ORVR	On-Board Refueling Vapor Recovery
OSS	Output Shaft Speed
oz	Ounce(s)
P	
PAG	Polyalkylene Glycol
PAIR	Pulsed Secondary Air Injection
PASS, PSGR	Passenger
PASS-Key®	Personalized Automotive Security System
P/B	Power Brakes
PC	Pressure Control
PCB	Printed Circuit Board
PCM	Powertrain Control Module
PCS	Pressure Control Solenoid
PCV	Positive Crankcase Ventilation
PEB	Power Electronics Bay
PID	Parameter Identification
PIM	Power Inverter Module
PM	Permanent Magnet Generator

P/N	Part Number
PNK	Pink
PNP	Park/Neutral Position
PRNDL	Park, Reverse, Neutral, Drive, Low
POA	Pilot Operated Absolute Valve
POS	Positive, Position
POT	Potentiometer Variable Resistor
PPL	Purple
ppm	Parts per Million
PROM	Programmable Read Only Memory
P/S, PS	Power Steering
PSCM	Power Steering Control Module, Passenger Seat Control Module
PSD	Power Sliding Door
PSP	Power Steering Pressure
psi	Pounds per Square Inch
psia	Pounds per Square Inch Absolute
psig	Pounds per Square Inch Gauge
pt	Pint
PTC	Positive Temperature Coefficient
PWM	Pulse Width Modulated
Q	
QDM	Quad Driver Module
qt	Quart(s)
R	
R-12	Refrigerant-12
R-134a	Refrigerant-134a
RAM	Random Access Memory, Non-permanent memory device, memory contents are lost when power is removed.
RAP	Retained Accessory Power
RAV	Remote Activation Verification
RCDLR	Remote Control Door Lock Receiver
RDCM	Right Door Control Module
Ref	Reference
Rev	Reverse
REX	Rear Exchanger
RIM	Rear Integration Module
RF	Right Front, Radio Frequency
RFA	Remote Function Actuation
RFI	Radio Frequency Interference
RH	Right Hand
RKE	Remote Keyless Entry
Rly	Relay
ROM	Read Only Memory, Permanent memory device, memory contents are retained when power is removed.
RPM	Revolutions per Minute Engine Speed
RPO	Regular Production Option
RR	Right Rear
RSS	Road Sensing Suspension
RTD	Real Time Damping
RT	Right

RTV	Room Temperature Vulcanizing Sealer
RWAL	Rear Wheel Antilock
RWD	Rear Wheel Drive
S	
s	Second(s)
SAE	Society of Automotive Engineers
SC	Supercharger
SCB	Supercharger Bypass
SCM	Seat Control Module
SDM	Sensing and Diagnostic Module
SEO	Special Equipment Option
SFI	Sequential Multiport Fuel Injection
SI	System International Modern Version of Metric System
SIAB	Side Impact Air Bag
SIR	Supplemental Inflatable Restraint
SLA	Short/Long Arm Suspension
sol	Solenoid
SO2	Sulfur Dioxide
SP	Splice Pack
S/P	Series/Parallel
SPO	Service Parts Operations
SPS	Service Programming System, Speed Signal
sq ft, ft^2	Square Foot/Feet
sq in, in^2	Square Inch/Inches
SRC	Service Ride Control
SRI	Service Reminder Indicator
SRS	Supplemental Restraint System
SS	Shift Solenoid
ST	Scan Tool
STID	Station Identification Station ID
S4WD	Selectable Four-Wheel Drive
Sw	Switch
SWPS	Steering Wheel Position Sensor
syn	Synchronizer
T	
TAC	Throttle Actuator Control
Tach	Tachometer
TAP	Transmission Adaptive Pressure, Throttle Adaptive Pressure
TBI	Throttle Body Fuel Injection
TC	Turbocharger, Transmission Control
TCC	Torque Converter Clutch
TCS	Traction Control System
TDC	Top Dead Center
TEMP	Temperature
Term	Terminal
TFP	Transmission Fluid Pressure
TFT	Transmission Fluid Temperature
THM	Turbo Hydro-Matic
TIM	Tire Inflation Monitoring, Tire Inflation Module
TOC	Transmission Oil Cooler

TP	Throttle Position
TPA	Terminal Positive Assurance
TPM	Tire Pressure Monitoring, Tire Pressure Monitor
TR	Transmission Range
TRANS	Transmission/Transaxle
TT	Tell Tail Warning Lamp
TV	Throttle Valve
TVRS	Television and Radio Suppression
TVV	Thermal Vacuum Valve
TWC	Three Way Converter Catalytic
TWC+OC	Three Way + Oxidation Converter Catalytic
TXV	Thermal Expansion Valve
U	
UART	Universal Asynchronous Receiver Transmitter
U/H	Underhood
U/HEC	Underhood Electrical Center
U-joint	Universal Joint
UTD	Universal Theft Deterrent
UV	Ultraviolet
V	
V	Volt(s), Voltage
V6	Six-Cylinder Engine, V-Type
V8	Eight-Cylinder Engine, V-Type
Vac	Vacuum
VAC	Vehicle Access Code
VATS	Vehicle Anti-Theft System
VCIM	Vehicle Communication Interface Mode
VCM	Vehicle Control Module
V dif	Voltage Difference
VDOT	Variable Displacement Orifice Tube
VDV	Vacuum Delay Valve
vel	Velocity
VES	Variable Effort Steering
VF	Vacuum Fluorescent
VIO	Violet
VIN	Vehicle Identification Number
VLR	Voltage Loop Reserve
VMV	Vacuum Modulator Valve
VR	Voltage Regulator
V ref	Voltage Reference
VSES	Vehicle Stability Enhancement System
VSS	Vehicle Speed Sensor
W	
w/	With
W/B	Wheel Base
WHL	Wheel
WHT	White
w/o	Without
WOT	Wide Open Throttle
W/P	Water Pump

W/S	Windshield
WSS	Wheel Speed Sensor
WU-OC	Warm Up Oxidation Converter Catalytic
WU-TWC	Warm Up Three-Way Converter Catalytic
X	
X-valve	Expansion Valve
Y	
yd	Yard(s)
YEL	Yellow

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Conversion - English/Metric

English	Multiply/ Divide by	Metric
In order to calculate English measurement, divide by the number in the center column. In order to calculate metric measurement, multiply by the number in the center column.		
Length		
in	25.4	mm
ft	0.3048	m
yd	0.9144	
mi	1.609	km
Area		
sq in	645.2	sq mm
	6.45	sq cm
sq ft	0.0929	sq m
sq yd	0.8361	
Volume		
cu in	16,387.00	cu mm
	16.387	cu cm
	0.0164	L
qt	0.9464	
gal	3.7854	
cu yd	0.764	cu m
Mass		
lb	0.4536	kg
ton	907.18	
	0.907	tonne (t)
Force		
Kg F	9.807	newtons (N)
oz F	0.278	
lb F	4.448	
Acceleration		
ft/s²	0.3048	m/s²
In/s²	0.0254	
Torque		
Lb in	0.11298	N·m
lb ft	1.3558	
Power		
hp	0.745	kW
Pressure (Stress)		
inches of H2O	0.2488	kPa
lb/sq in	6.895	
Energy (Work)		
Btu	1055	J (J= one Ws)
lb ft	1.3558	
kW hour	3,600,000.00	
Light		
Foot Candle	10.764	lm/m²

Velocity		
mph	1.6093	km/h
Temperature		
(°F - 32) 5/9	=	°C
°F	=	(9/5 °C + 32)
Fuel Performance		
235.215/mpg	=	100 km/L

Equivalents - Decimal and Metric

Fraction (in)	Decimal (in)	Metric (mm)
1/64	0.015625	0.39688
1/32	0.03125	0.79375
3/64	0.046875	1.19062
1/16	0.0625	1.5875
5/64	0.078125	1.98437
3/32	0.09375	2.38125
7/64	0.109375	2.77812
1/8	0.125	3.175
9/64	0.140625	3.57187
5/32	0.15625	3.96875
11/64	0.171875	4.36562
3/16	0.1875	4.7625
13/64	0.203125	5.15937
7/32	0.21875	5.55625
15/64	0.234375	5.95312
1/4	0.25	6.35
17/64	0.265625	6.74687
9/32	0.28125	7.14375
19/64	0.296875	7.54062
5/16	0.3125	7.9375
21/64	0.328125	8.33437
11/32	0.34375	8.73125
23/64	0.359375	9.12812
3/8	0.375	9.525
25/64	0.390625	9.92187
13/32	0.40625	10.31875
27/64	0.421875	10.71562
7/16	0.4375	11.1125
29/64	0.453125	11.50937
15/32	0.46875	11.90625
31/64	0.484375	12.30312
1/2	0.5	12.7
33/64	0.515625	13.09687
17/32	0.53125	13.49375
35/64	0.546875	13.89062
9/16	0.5625	14.2875
37/64	0.578125	14.68437
19/32	0.59375	15.08125
39/64	0.609375	15.47812
5/8	0.625	15.875
41/64	0.640625	16.27187

Fraction (in)	Decimal (in)	Metric (mm)
21/32	0.65625	16.66875
43/64	0.671875	17.06562
11/16	0.6875	17.4625
45/64	0.703125	17.85937
23/32	0.71875	18.25625
47/64	0.734375	18.65312
3/4	0.75	19.05
49/64	0.765625	19.44687
25/32	0.78125	19.84375
51/64	0.796875	20.24062
13/16	0.8125	20.6375
53/64	0.828125	21.03437
27/32	0.84375	21.43125
55/64	0.859375	21.82812
7/8	0.875	22.225
57/64	0.890625	22.62187
29/32	0.90625	23.01875
59/64	0.921875	23.41562
15/16	0.9375	23.8125
61/64	0.953125	24.20937
31/32	0.96875	24.60625
63/64	0.984375	25.00312
1	1.0	25.4

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Fasteners

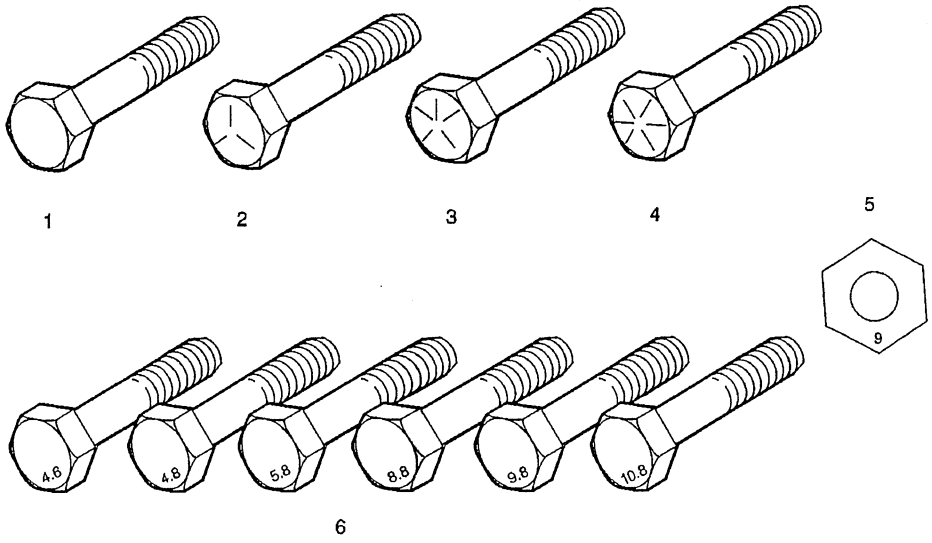
Metric Fasteners

This vehicle provides fastener dimensions using the metric system. Most metric fasteners are approximate in diameter to equivalent English fasteners. Make replacements using fasteners of the same nominal diameter, thread pitch, and strength.

A number marking identifies the OE metric fasteners except cross-recess head screws. The number also indicates the strength of the fastener material. A Posidrive® or Type 1A cross-recess identifies a metric cross-recess screw. For best results, use a Type 1A cross-recess screwdriver, or equivalent, in Posidrive® recess head screws.

GM Engineering Standards and North American Industries have adopted a portion of the ISO-defined standard metric fastener sizes. The purpose was to reduce the number of fastener sizes used while retaining the best thread qualities in each thread size. For example, the metric M6.0 X 1 screw, with nearly the same diameter and 25.4 threads per inch replaced the English 1/4-20 and 1/4-28 screws. The thread pitch is midway between the English coarse and fine thread pitches.

Fastener Strength Identification



1. English Bolt, Grade 2 (Strength Class)
2. English Bolt, Grade 5 (Strength Class)
3. English Bolt, Grade 7 (Strength Class)
4. English Bolt, Grade 8 (Strength Class)
5. Metric Nut, Strength Class 9
6. Metric Bolts, Strength Class Increases as Numbers Increase

The most commonly used metric fastener strength property classes are 9.8 and 10.9. The class identification is embossed on the head of each bolt. The English, inch strength classes range from grade 2 to grade 8. Radial lines are embossed on the head of each bolt in order to identify the strength class. The number of lines on the head of the bolt is 2 lines less than the actual grade. For example, a grade 8 bolt will have 6 radial lines on the bolt head. Some metric nuts are marked with a single digit strength identification number on the nut face.

The correct fasteners are available through GM SPO. Many metric fasteners available in the aftermarket parts channels are designed to metric standards of countries other than the United States, and may exhibit the following:

- Lower strength
- No numbered head marking system
- Wrong thread pitch

The metric fasteners on GM products are designed to new, international standards. The following are the common sizes and pitches, except for special applications:

- M6.0 X 1
- M8 X 1.25
- M10 X 1.5
- M12 X 1.75
- M14 X 2.00
- M16 X 2.00

Prevailing Torque Fasteners

Prevailing torque fasteners create a thread interface between the fastener and the fastener counterpart in order to prevent the fastener from loosening.

All Metal Prevailing Torque Fasteners

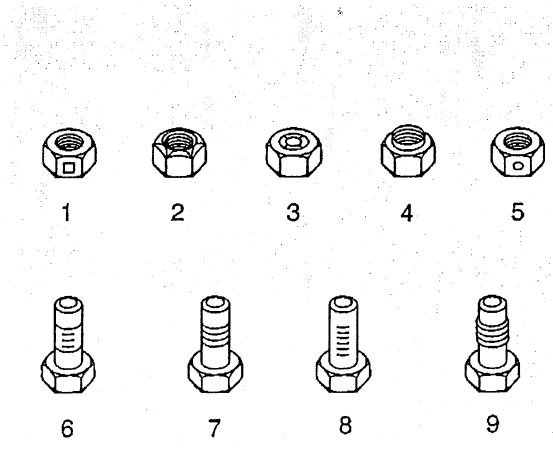
These fasteners accomplish the thread interface by a designed distortion or deformation in the fastener.

Nylon Interface Prevailing Torque Fasteners

These fasteners accomplish the thread interface by the presence of a nylon material on the fastener threads.

Adhesive Coated Fasteners

These fasteners accomplish the thread interface by the presence of a thread-locking compound on the fastener threads. Refer to the appropriate repair procedure in order to determine if the fastener may be reused and the applicable thread-locking compound to apply to the fastener.



1. Prevailing Torque Nut, Center Lock Type
2. Prevailing Torque Nut, Top Lock Type
3. Prevailing Torque Nut, Nylon Patch Type
4. Prevailing Torque Nut, Nylon Washer Insert Type
5. Prevailing Torque Nut, Nylon Insert Type

6. Prevailing Torque Bolt, Dry Adhesive Coating Type
7. Prevailing Torque Bolt, Thread Profile Deformed Type
8. Prevailing Torque Bolt, Nylon Strip Type
9. Prevailing Torque Bolt, Out-of-Round Thread Area Type

A prevailing torque fastener may be reused ONLY if:

- The fastener and the fastener counterpart are clean and not damaged
- There is no rust on the fastener
- The fastener develops the specified minimum torque against its counterpart prior to the fastener seating

Metric Prevailing Torque Fastener Minimum Torque Development

Application	Specification	
	Metric	English
All Metal Prevailing Torque Fasteners		
6 mm	0.4 N·m	4 lb in
8 mm	0.8 N·m	7 lb in
10 mm	1.4 N·m	12 lb in
12 mm	2.1 N·m	19 lb in
14 mm	3 N·m	27 lb in
16 mm	4.2 N·m	37 lb in
20 mm	7 N·m	62 lb in
24 mm	10.5 N·m	93 lb in
Nylon Interface Prevailing Torque Fasteners		
6 mm	0.3 N·m	3 lb in
8 mm	0.6 N·m	5 lb in
10 mm	1.1 N·m	10 lb in
12 mm	1.5 N·m	13 lb in
14 mm	2.3 N·m	20 lb in
16 mm	3.4 N·m	30 lb in
20 mm	5.5 N·m	49 lb in
24 mm	8.5 N·m	75 lb in

English Prevailing Torque Fastener Minimum Torque Development

Application	Specification	
	Metric	English
All Metal Prevailing Torque Fasteners		
1/4 in	0.5 N·m	4.5 lb in
5/16 in	0.8 N·m	7.5 lb in
3/8 in	1.3 N·m	11.5 lb in
7/16 in	1.8 N·m	16 lb in
1/2 in	2.3 N·m	20 lb in
9/16 in	3.2 N·m	28 lb in
5/8 in	4 N·m	36 lb in
3/4 in	7 N·m	54 lb in
Nylon Interface Prevailing Torque Fasteners		
1/4 in	0.3 N·m	3 lb in
5/16 in	0.6 N·m	5 lb in
3/8 in	1 N·m	9 lb in
7/16 in	1.3 N·m	12 lb in
1/2 in	1.8 N·m	16 lb in
9/16 in	2.5 N·m	22 lb in
5/8 in	3.4 N·m	30 lb in
3/4 in	5 N·m	45 lb in

S = Standard Equipment A = Available -- (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1LS and 1LT are available on C*13406, CG23406, CG33406 and CG33706 Models.	LS 1LS[1]	LT 1LT[1]
	AK5	**Air bags,** frontal, driver and right front passenger **1 - Includes passenger side air bag deactivation switch for Models with (C5F) GVWR, 8500 lbs. (3856 kg) and above. Always use safety belts and proper child restraints, even with air bags. Children are safer when properly secured in a rear seat. See the Owner's Manual for more safety information.**	S[1]	S[1]
	C60	**Air conditioning,** front manual	S	S
		Assist handle, front passenger	S	S
		Child seat anchor, located on all rear 3-passenger bench seating positions	S	S
		Console, base, includes open storage bin	S	--
		Cupholders, 3, on engine console cover	S	S
		Defogger, side window	S	S
	B38	**Floor covering,** Black rubberized vinyl full length floor covering	S	--
		Headliner, cloth	S	S
		Instrumentation, analog, includes speedometer, odometer with trip odometer, fuel level, voltmeter, engine temperature and oil pressure	S	S
		Key, single, 2-sided	S	S
		Lighting, 2 dome lamps, includes defeat switch and door handle-activated switches	S	S
	D31	**Mirror,** inside rearview, manual day/night	S	S
		Power outlet, auxiliary, 2 covered, on engine console cover, 12-volt	S	S
	AR7	**Seats,** front vinyl reclining buckets, includes head restraints **1 - Requires (**W) Interior trim. When ordered with a seating arrangement that includes rear seats, includes rear vinyl bench seats with outboard armrests. Head restraints are not available on rear bench seats.**	S[1]	--
	ZX5	**Seating,** 12-passenger, (2-3-3-4 seating configuration) **1 - Standard on *G23406, *G33406, and *G33706 Models only.**	S[1]	S[1]
	UM7	**Sound system,** ETR AM/FM stereo, includes seek-and-scan and digital clock. Includes front door speakers (2) and overhead rear sound bar (2)	S	S
		Steering wheel, steel sleeve column, includes theft-deterrent locking feature, Black	S	S
		Theft-deterrent system, PASSlock	S	S
		Tow/haul mode selector, IP mounted	S	S
		Visors, padded, driver and passenger side	S	S
		Warning tones, headlamp on, key-in-ignition	S	S
	ZW9	**Body,** standard	S	S

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1LS and 1LT are available on C*13406, CG23406, CG33406 and CG33706 Models.	LS 1LS[1]	LT 1LT[1]
		Bumpers, front and rear, painted Black, includes step-pad **1 - Not available when ordered with (V37) Bumpers, front and rear, chrome.**	S[1]	--
		Daytime running lamps	S	S
	E24	**Door,** swing-out passenger side, 60/40 split	S	S
		Door beams, steel-side	S	S
		Glass, Solar-Ray light tinted, all windows	S	S
	A18	**Glass,** rear cargo door windows, swing-out	S	S
	A19	**Glass,** side door, swing-out	S	S
	ZW6	**Glass,** full body window package	S	S
		Grille, Black composite, with single rectangular halogen headlamps	S	--
		Headlamps, halogen	S	S
	VK3	**License plate kit,** front	S	S
	DE2	**Mirrors,** outside rearview, manual folding, Black	S	S
	ZY1	**Paint,** solid	S	S
	XEN	**Tires,** front P235/75R16EL, all-season, blackwall **1 - Requires **13406 Models. Standard on *G13406 Model with (LU3) Engine, Vortec 4300 V6 MFI. Not available with (LM7) Engine, Vortec 5300 V8 SFI.**	S[1]	S[1]
	YEN	**Tires,** rear P235/75R16EL, all-season, blackwall **1 - Requires **13406 Models. Standard on *G13406 Model with (LU3) Engine, Vortec 4300 V6 MFI. Not available with (LM7) Engine, Vortec 5300 V8 SFI.**	S[1]	S[1]
	ZEN	**Tire,** spare P235/75R16EL, all-season, blackwall, located at rear underbody of vehicle **1 - Requires **13406 Models. Standard on *G13406 Model with (LU3) Engine, Vortec 4300 V6 MFI. Not available with (LM7) Engine, Vortec 5300 V8 SFI.**	S[1]	S[1]
	XHF	**Tires,** front LT225/75R16E, all-season, blackwall **1 - Standard on *G23406 Models.**	S[1]	S[1]
	YHF	**Tires,** rear LT225/75R16E, all-season, blackwall **1 - Standard on *G23406 Models.**	S[1]	S[1]
	ZHF	**Tire,** spare LT225/75R16E, all-season, blackwall, located at rear underbody of vehicle **1 - Standard on *G23406 Models.**	S[1]	S[1]
	XHH	**Tires,** front LT245/75R16E, all-season, blackwall **1 - Standard on *G33406 and *G33706 Models.**	S[1]	S[1]
	YHH	**Tires,** rear LT245/75R16E, all-season, blackwall **1 - Standard on *G33406 and *G33706 Models.**	S[1]	S[1]
	ZHH	**Tire,** spare LT245/75R16E, all-season, blackwall, located at rear underbody of vehicle **1 - Standard on *G33406 and *G33706 Models.**	S[1]	S[1]
		Wheels, Gray painted, includes Gray center caps and steel spare	S	--
		Wipers, intermittent, front wet-arm with pulse washers	S	S
	K68	**Alternator,** 105 amps **1 - Not available with (C69) Air conditioning, rear.**	S[1]	--
		Battery, 600 cold-cranking amps, includes rundown protection and retained accessory power	S	S

2006 Chevrolet Truck Express Passenger — STANDARD EQUIPMENT

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1LS and 1LT are available on C*13406, CG23406, CG33406 and CG33706 Models.	LS 1LS[1]	LT 1LT[1]
		Brakes, 4-wheel antilock, 4-wheel disc	S	S
		Brake/transmission shift interlock, automatic transmission	S	S
	LU3	Engine, Vortec 4300 V6 MFI (195 HP [145.4 kW] @ 4600 rpm, 260 lb.-ft. [351.0 N-m] @ 2800 rpm) 1 - Standard and only available on *G13406 Models. Reference the Engine/Axle page for availability.	S[1]	S[1]
	LR4	Engine, Vortec 4800 V8 SFI (285 HP [212.6 kW] @ 5200 rpm, 295 lb.-ft. [398.3 N-m] @ 4000 rpm) 1 - Includes external engine oil cooler. Standard on the *G23406 Model. Reference the Engine/Axle page for availability.	S[1]	S[1]
		Exhaust, aluminized stainless-steel muffler and tailpipe	S	S
		Frame, ladder-type	S	S
	C5Z	GVWR, 7200 lbs. (3266 kg) 1 - Standard and only available on **13406 Models. Reference the Engine/Axle page for availability.	S[1]	S[1]
	C6P	GVWR, 8600 lbs. (3901 kg) 1 - Standard and only available on *G23406 Model. Reference the Engine/Axle page for availability.	S[1]	S[1]
	C6Y	GVWR, 9600 lbs. (4354 kg) 1 - Standard and only available on *G33*06 Models. Reference the Engine/Axle page for availability.	S[1]	S[1]
		Oil life monitor	S	S
	GU6	Rear axle, 3.42 ratio 1 - Standard and only available on **13406 Models. Reference the Engine/Axle page for availability.	S[1]	S[1]
	JL4	StabiliTrak, Stability Control 1 - Includes Traction Assistance. Standard and only available on the *G33406 and *G33706 Models. Not available on any other models at this time.	S[1]	S[1]
		Steering, power	S	S
		Suspension, front, independent coil springs and stabilizer bar 1 - Standard and only available on *G***06 Models.	S[1]	S[1]
		Suspension, front, independent torsion bar (computer selected) and stabilizer bar 1 - Standard and only available on *H13406 Model.	S[1]	S[1]
		Suspension, rear, hypoid drive axle with multi-leaf springs	S	S
		Transfer case, all-wheel drive 1 - Only standard on CH13406.	S[1]	S[1]
	M30	Transmission, 4-speed automatic, electronically controlled with overdrive, tow/haul mode and internal transmission oil cooler 1 - Standard and only available on **13406 Models. Reference the Engine/Axle page for availability.	S[1]	S[1]
	MT1	Transmission, 4-speed automatic, heavy-duty, electronically controlled with overdrive, tow/haul mode and internal transmission oil cooler 1 - Standard and only available on *G23406, *G33406, or *G33706 Models. Reference the Engine/Axle page for availability.	S[1]	S[1]

2006 Chevrolet Truck Express Passenger — EQUIPMENT GROUPS

S = Standard Equipment A = Available -- (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

No deletions allowed to Equipment Groups. Additional options may be added; check ordering information section for compatibility.

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1LS and 1LT are available on C*13406, CG23406, CG33406 and CG33706 Models.	LS 1LS[1]	LT 1LT[1]
C69		Air conditioning, rear 1 - Includes (C36) Heater, rear and (KG3) Alternator, 145 amps. Standard on CG33706 Models only.	A[1]	■
BA3		Console, deluxe, includes swing-out storage bin	A	■
ZQ2		Convenience Package, power windows and door locks 1 - Included with (PDN) Power and Light Package.	A[1]	■
ZQ3		Convenience Package, Tilt-Wheel and cruise control 1 - Standard on the *G33406 and *G33706 Models.	A[1]	■[1]
AU3		Door locks, power, includes Lock-out Protection 1 - Included with (ZQ2) Convenience Package.	A[1]	■[1]
B30		Floor covering, full-floor color-keyed carpeting, includes front and rear rubberized vinyl floormats.	A	■
C36		Heater, rear, auxiliary 1 - Included with (C69) Air conditioning, rear.	A[1]	■
	AU0	Keyless entry, remote, includes 2 transmitters and remote panic button	--	■
TR9		Lighting, auxiliary, includes reading and underhood lights 1 - Includes (DH6) Visors, padded. Included with (PDN) Power and Light Package.	A[1]	■
AS5		Seats, front Custom Cloth buckets, includes head restraints and inboard armrests 1 - Requires (**G) Interior trim. When ordered with a seating arrangement that includes rear seats, includes rear custom cloth bench seats. Head restraints are not available on rear bench seats.	A[1]	■[1]
	DH6	Visors, padded, driver and passenger side with cloth trim and dual vanity mirrors, illuminated on passenger side 1 - Included and only available with (TR9) Lighting, auxiliary.	A[1]	■
V37		Bumpers, front and rear, chrome, includes step-pad 1 - Included with (ZR7) Chrome Appearance Package.	A[1]	■[1]
ZR7		Chrome Appearance Package 1 - Includes (V37) Bumpers, front and rear, chrome, includes step-pad and (V22) Grille, chrome, with dual composite halogen headlamps.	A[1]	■
	V22	Grille, chrome, with dual composite halogen headlamps 1 - Included and only available with (ZR7) Chrome Appearance Package.	A[1]	■[1]
P03		Wheels, Gray painted, includes chrome center caps and steel spare 1 - Not available if (E26) Door, swing-out driver side is ordered on CH13406 Model. 2 - Upgradeable to (PY2) Wheels, 4-chrome-styled steel or (PF9) Wheels, 4 - 16" x 7" (40.6 cm x 17.8 cm) cast aluminum, on **13406 Models. Not available if (E26) Door, swing-out driver side is ordered on CH13406 Model.	A[1]	□[2]

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1LS and 1LT are available on C*13406, CG23406, CG33406 and CG33706 Models.	LS 1LS[1]	LT 1LT[1]
KG3		**Alternator,** 145 amps 1 - Included with (C69) Air conditioning, rear.	A[1]	■

S = Standard Equipment A = Available – (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

No deletions allowed to Equipment Groups. Additional options may be added; check ordering information section for compatibility.

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1LS and 1LT are available on C*13406, CG23406, CG33406 and CG33706 Models.	LS 1LS[1]	LT 1LT[1]
C69		**Air conditioning,** rear 1 - Includes (C36) Heater, rear and (KG3) Alternator, 145 amps. Standard on CG33706 Models only.	A[1]	■
BA3		**Console,** deluxe, includes swing-out storage bin	A	■
ZQ2		**Convenience Package,** power windows and door locks 1 - Included with (PDN) Power and Light Package.	A[1]	■
ZQ3		**Convenience Package,** Tilt-Wheel and cruise control 1 - Standard on the *G33406 and *G33706 Models.	A[1]	■[1]
AU3		**Door locks,** power, includes Lock-out Protection 1 - Included with (ZQ2) Convenience Package.	A[1]	■[1]
B30		**Floor covering,** full-floor color-keyed carpeting, includes front and rear rubberized vinyl floormats.	A	■
C36		**Heater,** rear, auxiliary 1 - Included with (C69) Air conditioning, rear.	A[1]	■
	AU0	**Keyless entry,** remote, includes 2 transmitters and remote panic button	--	■
TR9		**Lighting,** auxiliary, includes reading and underhood lights 1 - Includes (DH6) Visors, padded. Included with (PDN) Power and Light Package.	A[1]	■
AS5		**Seats,** front Custom Cloth buckets, includes head restraints and inboard armrests 1 - Requires (**G) Interior trim. When ordered with a seating arrangement that includes rear seats, includes rear custom cloth bench seats. Head restraints are not available on rear bench seats.	A[1]	■[1]
	DH6	**Visors,** padded, driver and passenger side with cloth trim and dual vanity mirrors, illuminated on passenger side 1 - Included and only available with (TR9) Lighting, auxiliary.	A[1]	■
V37		**Bumpers,** front and rear, chrome, includes step-pad 1 - Included with (ZR7) Chrome Appearance Package.	A[1]	■[1]
ZR7		**Chrome Appearance Package** 1 - Includes (V37) Bumpers, front and rear, chrome, includes step-pad and (V22) Grille, chrome, with dual composite halogen headlamps.	A[1]	■
	V22	**Grille,** chrome, with dual composite halogen headlamps 1 - Included and only available with (ZR7) Chrome Appearance Package.	A[1]	■[1]
P03		**Wheels,** Gray painted, includes chrome center caps and steel spare 1 - Not available if (E26) Door, swing-out driver side is ordered on CH13406 Model. 2 - Upgradeable to (PY2) Wheels, 4-chrome-styled steel or (PF9) Wheels, 4 - 16" x 7" (40.6 cm x 17.8 cm) cast aluminum, on **13406 Models. Not available if (E26) Door, swing-out driver side is ordered on CH13406 Model.	A[1]	□[2]

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1LS and 1LT are available on C*13406, CG23406, CG33406 and CG33706 Models.	LS 1LS[1]	LT 1LT[1]
KG3		Alternator, 145 amps 1 - Included with (C69) Air conditioning, rear.	A[1]	■
		ADDITIONAL OPTIONS		
Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1LS and 1LT are available on C*13406, CG23406, CG33406 and CG33706 Models.	LS 1LS[1]	LT 1LT[1]
C69		Air conditioning, rear 1 - Includes (C36) Heater, rear and (KG3) Alternator, 145 amps. Standard on CG33706 Models only.	A[1]	■
BA3		Console, deluxe, includes swing-out storage bin	A	■
ZQ2		Convenience Package, power windows and door locks 1 - Included with (PDN) Power and Light Package.	A[1]	■
ZQ3		Convenience Package, Tilt-Wheel and cruise control 1 - Standard on the *G33406 and *G33706 Models.	A[1]	■[1]
C49		Defogger, rear-window, electric 1 - Requires (AJ1) Glass, Solar-Ray deep tinted.	A[1]	A[1]
AU3		Door locks, power, includes Lock-out Protection 1 - Included with (ZQ2) Convenience Package.	A[1]	■[1]
B30		Floor covering, full-floor color-keyed carpeting, includes front and rear rubberized vinyl floormats.	A	■
C36		Heater, rear, auxiliary 1 - Included with (C69) Air conditioning, rear.	A[1]	■
TR9		Lighting, auxiliary, includes reading and underhood lights 1 - Includes (DH6) Visors, padded. Included with (PDN) Power and Light Package.	A[1]	■
DF5		Mirror, inside rearview, electrochromic (light-sensitive auto dimming), compass and outside temperature indicator	--	A
PDN		Power and Light Package 1 - Requires a Federal Government order type. Includes (ZQ2) Convenience Package, (TR9) Lighting, auxiliary and (DE5) Mirrors, outside rearview, manual folding, power adjust, heated, Black. (Upgradeable to (DE7) Mirrors, outside rearview, manual folding, power adjust, heated, Black.) ((DE7) Mirrors, outside rearview, manual folding, power adjust, heated, Black, is not available in the following states: VT, VA, NJ, TX and WA.) Refer to program 05-36BE for eligibility and pricing.	A[1]	--
AG1		Seat adjuster, power, driver 6-way 1 - Requires (AS5) Seats, front Custom Cloth buckets.	--	A[1]
AG2		Seat adjuster, power, front passenger 6-way 1 - Requires (AS5) Seats, front Custom Cloth buckets and (AG1) Seat adjuster, power, driver 6-way.	--	A[1]
AS5		Seats, front Custom Cloth buckets, includes head restraints and inboard armrests 1 - Requires (**G) Interior trim. When ordered with a seating arrangement that includes rear seats, includes rear custom cloth bench seats. Head restraints are not available on rear bench seats.	A[1]	■[1]

ADDITIONAL OPTIONS				
Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1LS and 1LT are available on C*13406, CG23406, CG33406 and CG33706 Models.	LS 1LS[1]	LT 1LT[1]
ZP8		Seating, 8-passenger, (2-3-3 seating configuration) 1 - Standard on **13406 model only. Available when ordered with *G23406 or *G33406 Models.	A[1]	A[1]
ZP3		Seating, 15-passenger, (2-3-3-3-4 seating configuration) 1 - Available when ordered with *G33706 Model only.	A[1]	A[1]
DT4		Smoker's Package, includes ashtray and lighter	A	A
U1C		Sound system, ETR AM/FM stereo with CD player, includes seek-and-scan, digital clock, TheftLock and random select. Includes front door speakers (2) and overhead rear sound bar (2)	A	A
UB1		Sound system, ETR AM/FM stereo with CD and cassette player, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume, TheftLock, random select, auto-reverse cassette and Radio Data System (RDS). Includes front door speakers (2), overhead rear sound bar (2) and rear door speakers (2) 1 - Requires (ZQ2) Convenience Package.	A[1]	A[1]
UC6		Sound system, ETR AM/FM stereo with 6-disc CD changer, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume, TheftLock, random select and Radio Data System (RDS). Includes front door speakers (2), overhead rear sound bar (2) and rear door speakers (2) 1 - Requires (ZQ2) Convenience Package.	A[1]	A
NP5		Steering wheel, leather-wrapped, steel sleeve column, includes theft-deterrent locking feature, Black	--	A
V37		Bumpers, front and rear, chrome, includes step-pad 1 - Included with (ZR7) Chrome Appearance Package.	A[1]	■[1]
ZR7		Chrome Appearance Package 1 - Includes (V37) Bumpers, front and rear, chrome, includes step-pad and (V22) Grille, chrome, with dual composite halogen headlamps.	A[1]	■
YA2		Door, sliding passenger side 1 - Not available with (E26) Door, swing-out driver side.	A[1]	A[1]
E26		Door, swing-out driver side, 60/40 split 1 - Requires **13406, *G23406, and *G33406 Models. Requires (PF9) Wheels, 4 - 16" x 7" (40.6 cm x 17.8 cm) cast aluminum on CH13406 Models. Not available when ordered with (YA2) Door, sliding passenger side	A[1]	A[1]
AJ1		Glass, Solar-Ray deep tinted (all windows except light tinted glass on windshield, driver and front passenger)	A	A
U05		Horn, dual-note tone	A	A
DE5		Mirrors, outside rearview, manual folding, power adjust, heated, Black 1 - Requires (ZQ2) Convenience Package. Included with (PDN) Power and Light Package. 2 - Requires (ZQ2) Convenience Package.	A[1]	A[2]
DE7		Mirrors, outside rearview, manual folding, power adjust, heated, Black, includes turn signal indicators 1 - Requires (ZQ2) Convenience Package. Not available with Upfitter order types.	A[1]	A[1]

ADDITIONAL OPTIONS

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1LS and 1LT are available on C*13406, CG23406, CG33406 and CG33706 Models.	LS 1LS[1]	LT 1LT[1]
XEP		**Tires,** front P235/75R16EL, all-season, White outlined-letter 1 - Requires C*13406 Models.	A[1]	A[1]
B46		**Trim,** rear body-colored halo (replaces standard Black panel - This panel is located above the rear cargo doors) 1 - Not available with (41U) Black, (63U) Sport Red Metallic, (74U) Victory Red or (TGK) SEO solid paint. These colors will receive a Black halo.	A[1]	A[1]
P03		**Wheels,** Gray painted, includes chrome center caps and steel spare 1 - Not available if (E26) Door, swing-out driver side is ordered on CH13406 Model. 2 - Upgradeable to (PY2) Wheels, 4-chrome-styled steel or (PF9) Wheels, 4 - 16" x 7" (40.6 cm x 17.8 cm) cast aluminum, on **13406 Models. Not available if (E26) Door, swing-out driver side is ordered on CH13406 Model.	A[1]	□[2]
PY2		**Wheels,** 4 - chrome-styled steel, includes chrome center caps and steel spare 1 - Not available if (E26) Door, swing-out driver side is ordered on CH13406 Model.	A[1]	A[1]
PF9		**Wheels,** 4 - 16" x 7" (40.6 cm x 17.8 cm) cast aluminum, includes steel spare 1 - Requires **13406. Required on *H13406 when (E26) Door, swing-out driver side is ordered. Not available on (1LS) LS trim level unless (E26) Door, swing-out driver side is specified. Not available when ordered with (P03) Wheels, Gray painted or (PY2) Wheels, 4 - chrome-styled steel.	A[1]	A[1]
40P		**Wheel finish,** painted White. White painted wheels in lieu of standard Gray painted wheels. 1 - Not available on C*13406 Models or with (P03) Wheels, chrome center caps.	A[1]	--
KG3		**Alternator,** 145 amps 1 - Included with (C69) Air conditioning, rear.	A[1]	■
KL5		**Alternative fuel conversion-ready engine,** includes internal modifications for operation with natural or propane gas 1 - Requires (LQ4) Engine, Vortec 6000 V8 SFI. Not available on **13406 Models.	A[1]	A[1]
UA1		**Battery,** heavy-duty, 800 cold-cranking amps, includes rundown protection and retained accessory power	A	A
V10		**Cold Climate Package,** includes engine block heater	A	A
G80		**Differential,** locking, heavy-duty, rear 1 - Not available on the *G33406 or *G33706 Models.	A[1]	A[1]
YF5		**Emissions,** California state requirements	A	A
FE9		**Emissions,** Federal requirements	A	A
NE1		**Emissions,** Maine, Massachusetts, New York or Vermont state requirements	A	A
NC7		**Emissions override,** Federal (for vehicles ordered by dealers in Federal emission states with California, New York, Vermont, Massachusetts or Maine emissions; may also be used by dealers in states of California, New York, Vermont, Massachusetts or Maine to order different state-specific emissions) 1 - Requires (YF5) Emissions, California state requirements or (NE1) Emissions, New York, Vermont, Massachusetts or Maine state requirements.	A[1]	A[1]
NB8		**Emissions override,** California, Massachusetts or New York (for vehicles ordered by dealers in states of California, Massachusetts or New York with Federal emissions) 1 - Requires (FE9) Emissions, Federal requirements.	A[1]	A[1]

ADDITIONAL OPTIONS

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1LS and 1LT are available on C*13406, CG23406, CG33406 and CG33706 Models.	LS 1LS[1]	LT 1LT[1]
VCL		**Emissions Certification,** CFF (Clean Fuel Fleet) LEV (Low Emission Vehicle). Option (VCL) should ONLY be ordered to receive the CFF LEV certification. If (VCL) is not ordered, the vehicle will be produced with your normally selected emission system and may not be CFF LEV certified. Products ordered with the (VCL) option may not be certified to California emission requirements. Therefore, they may not be legal for registration in California, New York, Maine, Massachusetts and Vermont. Option (YF5) should be ordered for all vehicles ordered in California. Option (NE1) should be ordered for all vehicles ordered in Maine or Vermont. 1 - Only available with (LU3) Engine, Vortec 4300 V6 MFI (CG13406 Model only), (LM7) Engine, Vortec 5300 V8 SFI (C*13406 Models only), and (LQ4) Engine, Vortec 6000 V8 SFI (CG23406, CG33406 and CG33706 Models only). Requires (ZX5) Seating, 12-passenger on the *G23406 and *G33406 Models. Requires (ZX5) Seating, 12-passenger or (ZP3) Seating, 15-passenger on the *G33706 Model.	A[1]	A[1]
LM7		**Engine,** Vortec 5300 V8 SFI (295 HP [220 kW] @ 5200 rpm, 335 lb.-ft. [452.25 N-m] @ 4000 rpm) 1 - Standard on *H13406 Model. Available on *G13406 Model. Reference the Engine/Axle page for availability.	A[1]	A[1]
LQ4		**Engine,** Vortec 6000 V8 SFI (300 HP [223.8 kW] @ 4400 rpm, 360 lb.-ft. [486.6 N-m] @ 4000 rpm) 1 - Standard on *G33*06 Models. Available on *G23406 Model. Includes external engine oil cooler. Reference the Engine/Axle page for availability.	A[1]	A[1]
GT4		**Rear axle,** 3.73 ratio 1 - Standard on the *G23406 and *G33*06 Models. Available on **13406 Models with (LM7) Engine, Vortec 5300 V8 SFI. Reference the Engine/Axle page for availability.	A[1]	A[1]
GT5		**Rear axle,** 4.10 ratio 1 - Requires *G23406 Model. Reference the Engine/Axle page for availability.	A[1]	A[1]
Z82		**Trailering equipment,** heavy-duty, includes trailering hitch platform and 7-lead wiring harness 1 - Includes (UY7) Trailer wiring, 7-lead harness.	A[1]	A[1]
UY7		**Trailer wiring,** 7-lead harness 1 - Included with (Z82) Trailering equipment, heavy-duty.	A[1]	A[1]
V14		**Transmission oil cooler,** external 1 - Requires (LQ4) Engine, Vortec 6000 V8 SFI.	A[1]	A[1]

2006 Chevrolet Truck Express Passenger — PEG STAIRSTEP

S = Standard Equipment A = Available – (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

No deletions allowed to Equipment Groups. Additional options may be added; check ordering information section for compatibility.

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1LS and 1LT are available on C*13406, CG23406, CG33406 and CG33706 Models.	LS 1LS[1]	LT 1LT[1]
C69		Air conditioning, rear		■
KG3		Alternator, 145 amps		■
V37		Bumpers, front and rear, chrome		■
ZR7		Chrome Appearance Package		■
BA3		Console, deluxe		■
ZQ2		Convenience Package		■
ZQ3		Convenience Package		■
AU3		Door locks, power		■
B30		Floor covering, full-floor color-keyed carpeting		■
	V22	Grille, chrome		■
C36		Heater, rear		■
	AU0	Keyless entry, remote		■
TR9		Lighting, auxiliary		■
AS5		Seats, front Custom Cloth buckets		■
	DH6	Visors, padded		■
P03		Wheels, Gray painted 1 - Upgradeable to (PY2) Wheels, 4-chrome-styled steel or (PF9) Wheels, 4 - 16" x 7" (40.6 cm x 17.8 cm) cast aluminum, on **13406 Models. Not available if (E26) Door, swing-out driver side is ordered on CH13406 Model.		□[1]

2006 Chevrolet Truck Express Passenger — INTERIOR

S = Standard Equipment A = Available – (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1LS and 1LT are available on C*13406, CG23406, CG33406 and CG33706 Models.	LS 1LS[1]	LT 1LT[1]
	AK5	Air bags, frontal, driver and right front passenger 1 - Includes passenger side air bag deactivation switch for Models with (C5F) GVWR, 8500 lbs. (3856 kg) and above. Always use safety belts and proper child restraints, even with air bags. Children are safer when properly secured in a rear seat. See the Owner's Manual for more safety information.	S[1]	S[1]
	C60	Air conditioning, front manual	S	S
C69		Air conditioning, rear 1 - Includes (C36) Heater, rear and (KG3) Alternator, 145 amps. Standard on CG33706 Models only.	A[1]	■
		Assist handle, front passenger	S	S
		Child seat anchor, located on all rear 3-passenger bench seating positions	S	S
		Console, base, includes open storage bin	S	–
BA3		Console, deluxe, includes swing-out storage bin	A	■
ZQ2		Convenience Package, power windows and door locks 1 - Included with (PDN) Power and Light Package.	A[1]	■
ZQ3		Convenience Package, Tilt-Wheel and cruise control 1 - Standard on the *G33406 and *G33706 Models.	A[1]	■[1]
		Cupholders, 3, on engine console cover	S	S
		Defogger, side window	S	S
C49		Defogger, rear-window, electric 1 - Requires (AJ1) Glass, Solar-Ray deep tinted.	A[1]	A[1]
AU3		Door locks, power, includes Lock-out Protection 1 - Included with (ZQ2) Convenience Package.	A[1]	■[1]
	B38	Floor covering, Black rubberized vinyl full length floor covering	S	–
B30		Floor covering, full-floor color-keyed carpeting, includes front and rear rubberized vinyl floormats.	A	■
		Headliner, cloth	S	S
C36		Heater, rear, auxiliary 1 - Included with (C69) Air conditioning, rear.	A[1]	■
		Instrumentation, analog, includes speedometer, odometer with trip odometer, fuel level, voltmeter, engine temperature and oil pressure	S	S
		Key, single, 2-sided	S	S
	AU0	Keyless entry, remote, includes 2 transmitters and remote panic button	–	■
		Lighting, 2 dome lamps, includes defeat switch and door handle-activated switches	S	S

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1LS and 1LT are available on C*13406, CG23406, CG33406 and CG33706 Models.	LS 1LS[1]	LT 1LT[1]
TR9		**Lighting,** auxiliary, includes reading and underhood lights 1 - Includes (DH6) Visors, padded. Included with (PDN) Power and Light Package.	A[1]	■
	D31	**Mirror,** inside rearview, manual day/night	S	S
DF5		**Mirror,** inside rearview, electrochromic (light-sensitive auto dimming), compass and outside temperature indicator	--	A
PDN		**Power and Light Package** 1 - Requires a Federal Government order type. Includes (ZQ2) Convenience Package, (TR9) Lighting, auxiliary and (DE5) Mirrors, outside rearview, manual folding, power adjust, heated, Black. (Upgradeable to (DE7) Mirrors, outside rearview, manual folding, power adjust, heated, Black.) ((DE7) Mirrors, outside rearview, manual folding, power adjust, heated, Black, is not available in the following states: VT, VA, NJ, TX and WA.) Refer to program 05-36BE for eligibility and pricing.	A[1]	--
		Power outlet, auxiliary, 2 covered, on engine console cover, 12-volt	S	S
AG1		**Seat adjuster,** power, driver 6-way 1 - Requires (AS5) Seats, front Custom Cloth buckets.	--	A[1]
AG2		**Seat adjuster,** power, front passenger 6-way 1 - Requires (AS5) Seats, front Custom Cloth buckets and (AG1) Seat adjuster, power, driver 6-way.	--	A[1]
	AR7	**Seats,** front vinyl reclining buckets, includes head restraints 1 - Requires (**W) interior trim. When ordered with a seating arrangement that includes rear seats, includes rear vinyl bench seats with outboard armrests. Head restraints are not available on rear bench seats.	S[1]	--
AS5		**Seats,** front Custom Cloth buckets, includes head restraints and inboard armrests 1 - Requires (**G) interior trim. When ordered with a seating arrangement that includes rear seats, includes rear custom cloth bench seats. Head restraints are not available on rear bench seats.	A[1]	■[1]
ZP8		**Seating,** 8-passenger, (2-3-3 seating configuration) 1 - Standard on **13406 model only. Available when ordered with *G23406 or *G33406 Models.	A[1]	A[1]
	ZX5	**Seating,** 12-passenger, (2-3-3-4 seating configuration) 1 - Standard on *G23406, *G33406, and *G33706 Models only.	S[1]	S[1]
ZP3		**Seating,** 15-passenger, (2-3-3-3-4 seating configuration) 1 - Available when ordered with *G33706 Model only.	A[1]	A[1]
DT4		**Smoker's Package,** includes ashtray and lighter	A	A
	UM7	**Sound system,** ETR AM/FM stereo, includes seek-and-scan and digital clock. Includes front door speakers (2) and overhead rear sound bar (2)	S	S
U1C		**Sound system,** ETR AM/FM stereo with CD player, includes seek-and-scan, digital clock, TheftLock and random select. Includes front door speakers (2) and overhead rear sound bar (2)	A	A
UB1		**Sound system,** ETR AM/FM stereo with CD and cassette player, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume, TheftLock, random select, auto-reverse cassette and Radio Data System (RDS). Includes front door speakers (2), overhead rear sound bar (2) and rear door speakers (2) 1 - Requires (ZQ2) Convenience Package.	A[1]	A[1]

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1LS and 1LT are available on C*13406, CG23406, CG33406 and CG33706 Models.	LS 1LS[1]	LT 1LT[1]
UC6		**Sound system,** ETR AM/FM stereo with 6-disc CD changer, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume, TheftLock, random select and Radio Data System (RDS). Includes front door speakers (2), overhead rear sound bar (2) and rear door speakers (2) 1 - Requires (ZQ2) Convenience Package.	A[1]	A
		Steering wheel, steel sleeve column, includes theft-deterrent locking feature, Black	S	S
NP5		**Steering wheel,** leather-wrapped, steel sleeve column, includes theft-deterrent locking feature, Black	--	A
		Theft-deterrent system, PASSlock	S	S
		Tow/haul mode selector, IP mounted	S	S
		Visors, padded, driver and passenger side	S	S
	DH6	**Visors,** padded, driver and passenger side with cloth trim and dual vanity mirrors, illuminated on passenger side 1 - Included and only available with (TR9) Lighting, auxiliary.	A[1]	■
		Warning tones, headlamp on, key-in-ignition	S	S

S = Standard Equipment A = Available – (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1LS and 1LT are available on C*13406, CG23406, CG33406 and CG33706 Models.	LS 1LS[1]	LT 1LT[1]
	ZW9	Body, standard	S	S
V37		Bumpers, front and rear, chrome, includes step-pad 1 - Included with (ZR7) Chrome Appearance Package.	A[1]	■[1]
		Bumpers, front and rear, painted Black, includes step-pad 1 - Not available when ordered with (V37) Bumpers, front and rear, chrome.	S[1]	–
ZR7		Chrome Appearance Package 1 - Includes (V37) Bumpers, front and rear, chrome, includes step-pad and (V22) Grille, chrome, with dual composite halogen headlamps.	A[1]	■
		Daytime running lamps	S	S
YA2		Door, sliding passenger side 1 - Not available with (E26) Door, swing-out driver side.	A[1]	A[1]
	E24	Door, swing-out passenger side, 60/40 split	S	S
E26		Door, swing-out driver side, 60/40 split 1 - Requires **13406, *G23406, and *G33406 Models. Requires (PF9) Wheels, 4 - 16" x 7" (40.6 cm x 17.8 cm) cast aluminum on CH13406 Models. Not available when ordered with (YA2) Door, sliding passenger side	A[1]	A[1]
		Door beams, steel-side	S	S
		Glass, Solar-Ray light tinted, all windows	S	S
	A18	Glass, rear cargo door windows, swing-out	S	S
	A19	Glass, side door, swing-out	S	S
AJ1		Glass, Solar-Ray deep tinted (all windows except light tinted glass on windshield, driver and front passenger)	A	A
	ZW6	Glass, full body window package	S	S
		Grille, Black composite, with single rectangular halogen headlamps	S	–
	V22	Grille, chrome, with dual composite halogen headlamps 1 - Included and only available with (ZR7) Chrome Appearance Package.	A[1]	■[1]
		Headlamps, halogen	S	S
U05		Horn, dual-note tone	A	A
	VK3	License plate kit, front	S	S
	DE2	Mirrors, outside rearview, manual folding, Black	S	S
DE5		Mirrors, outside rearview, manual folding, power adjust, heated, Black 1 - Requires (ZQ2) Convenience Package. Included with (PDN) Power and Light Package. 2 - Requires (ZQ2) Convenience Package.	A[1]	A[2]

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1LS and 1LT are available on C*13406, CG23406, CG33406 and CG33706 Models.	LS 1LS[1]	LT 1LT[1]
DE7		Mirrors, outside rearview, manual folding, power adjust, heated, Black, includes turn signal indicators 1 - Requires (ZQ2) Convenience Package. Not available with Upfitter order types.	A[1]	A[1]
	ZY1	Paint, solid	S	S
	XEN	Tires, front P235/75R16EL, all-season, blackwall 1 - Requires **13406 Models. Standard on *G13406 Model with (LU3) Engine, Vortec 4300 V6 MFI. Not available with (LM7) Engine, Vortec 5300 V8 SFI.	S[1]	S[1]
	YEN	Tires, rear P235/75R16EL, all-season, blackwall 1 - Requires **13406 Models. Standard on *G13406 Model with (LU3) Engine, Vortec 4300 V6 MFI. Not available with (LM7) Engine, Vortec 5300 V8 SFI.	S[1]	S[1]
	ZEN	Tire, spare P235/75R16EL, all-season, blackwall, located at rear underbody of vehicle 1 - Requires **13406 Models. Standard on *G13406 Model with (LU3) Engine, Vortec 4300 V6 MFI. Not available with (LM7) Engine, Vortec 5300 V8 SFI.	S[1]	S[1]
	XNK	Tires, front P245/75R16, all-season, blackwall 1 - Requires **13406 Models. Standard on *H13406 Model. Included on *G13406 Model with (LM7) Engine, Vortec 5300 V8 SFI.	A[1]	A[1]
	YNK	Tires, rear P245/75R16, all-season, blackwall 1 - Requires **13406 Models. Standard on *H13406 Model. Included on *G13406 Model with (LM7) Engine, Vortec 5300 V8 SFI.	A[1]	A[1]
	ZNK	Tire, spare P245/75R16, all-season, blackwall 1 - Requires **13406 Models. Standard on *H13406 Model. Included on *G13406 Model with (LM7) Engine, Vortec 5300 V8 SFI.	A[1]	A[1]
XEP		Tires, front P235/75R16EL, all-season, White outlined-letter 1 - Requires C*13406 Models.	A[1]	A[1]
	YEP	Tires, rear P235/75R16EL, all-season, White outlined-letter 1 - Requires C*13406 Models.	A[1]	A[1]
	ZEP	Tires, spare P235/75R16EL, all-season, White outlined-letter, located at rear underbody of vehicle 1 - Requires C*13406 Models.	A[1]	A[1]
	XHF	Tires, front LT225/75R16E, all-season, blackwall 1 - Standard on *G23406 Models.	S[1]	S[1]
	YHF	Tires, rear LT225/75R16E, all-season, blackwall 1 - Standard on *G23406 Models.	S[1]	S[1]
	ZHF	Tire, spare LT225/75R16E, all-season, blackwall, located at rear underbody of vehicle 1 - Standard on *G23406 Models.	S[1]	S[1]
	XHH	Tires, front LT245/75R16E, all-season, blackwall 1 - Standard on *G33406 and *G33706 Models.	S[1]	S[1]
	YHH	Tires, rear LT245/75R16E, all-season, blackwall 1 - Standard on *G33406 and *G33706 Models.	S[1]	S[1]
	ZHH	Tire, spare LT245/75R16E, all-season, blackwall, located at rear underbody of vehicle 1 - Standard on *G33406 and *G33706 Models.	S[1]	S[1]
B46		Trim, rear body-colored halo (replaces standard Black panel - This panel is located above the rear cargo doors) 1 - Not available with (41U) Black, (63U) Sport Red Metallic, (74U) Victory Red or (TGK) SEO solid paint. These colors will receive a Black halo.	A[1]	A[1]

2006 Chevrolet Truck Express Passenger — EXTERIOR

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1LS and 1LT are available on C*13406, CG23406, CG33406 and CG33706 Models.	LS 1LS[1]	LT 1LT[1]
		Wheels, Gray painted, includes Gray center caps and steel spare	S	--
P03		**Wheels,** Gray painted, includes chrome center caps and steel spare 1 - Not available if (E26) Door, swing-out driver side is ordered on CH13406 Model. 2 - Upgradeable to (PY2) Wheels, 4-chrome-styled steel or (PF9) Wheels, 4 - 16" x 7" (40.6 cm x 17.8 cm) cast aluminum, on **13406 Models. Not available if (E26) Door, swing-out driver side is ordered on CH13406 Model.	A[1]	□[2]
PY2		**Wheels,** 4 - chrome-styled steel, includes chrome center caps and steel spare 1 - Not available if (E26) Door, swing-out driver side is ordered on CH13406 Model.	A[1]	A[1]
PF9		**Wheels,** 4 - 16" x 7" (40.6 cm x 17.8 cm) cast aluminum, includes steel spare 1 - Requires **13406. Required on *H13406 when (E26) Door, swing-out driver side is ordered. Not available on (1LS) LS trim level unless (E26) Door, swing-out driver side is specified. Not available when ordered with (P03) Wheels, Gray painted or (PY2) Wheels, 4 - chrome-styled steel.	A[1]	A[1]
40P		**Wheel finish,** painted White. White painted wheels in lieu of standard Gray painted wheels. 1 - Not available on C*13406 Models or with (P03) Wheels, chrome center caps.	A[1]	--
		Wipers, intermittent, front wet-arm with pulse washers	S	S

2006 Chevrolet Truck Express Passenger — MECHANICAL

S = Standard Equipment A = Available -- (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1LS and 1LT are available on C*13406, CG23406, CG33406 and CG33706 Models.	LS 1LS[1]	LT 1LT[1]
	K68	**Alternator,** 105 amps 1 - Not available with (C69) Air conditioning, rear.	S[1]	--
KG3		**Alternator,** 145 amps 1 - Included with (C69) Air conditioning, rear.	A[1]	■
KL5		**Alternative fuel conversion-ready engine,** includes internal modifications for operation with natural or propane gas 1 - Requires (LQ4) Engine, Vortec 6000 V8 SFI. Not available on **13406 Models.	A[1]	A[1]
		Battery, 600 cold-cranking amps, includes rundown protection and retained accessory power	S	S
UA1		**Battery,** heavy-duty, 800 cold-cranking amps, includes rundown protection and retained accessory power	A	A
		Brakes, 4-wheel antilock, 4-wheel disc	S	S
		Brake/transmission shift interlock, automatic transmission	S	S
V10		**Cold Climate Package,** includes engine block heater	A	A
G80		**Differential,** locking, heavy-duty, rear 1 - Not available on the *G33406 or *G33706 Models.	A[1]	A[1]
YF5		**Emissions,** California state requirements	A	A
FE9		**Emissions,** Federal requirements	A	A
NE1		**Emissions,** Maine, Massachusetts, New York or Vermont state requirements	A	A
NC7		**Emissions override,** Federal (for vehicles ordered by dealers in Federal emission states with California, New York, Vermont, Massachusetts or Maine emissions; may also be used by dealers in states of California, New York, Vermont, Massachusetts or Maine to order different state-specific emissions) 1 - Requires (YF5) Emissions, California state requirements or (NE1) Emissions, New York, Vermont, Massachusetts or Maine state requirements.	A[1]	A[1]
NB8		**Emissions override,** California, Massachusetts or New York (for vehicles ordered by dealers in states of California, Massachusetts or New York with Federal emissions) 1 - Requires (FE9) Emissions, Federal requirements.	A[1]	A[1]

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1LS and 1LT are available on C**13406, CG23406, CG33406 and CG33706 Models.	LS 1LS[1]	LT 1LT[1]
VCL		**Emissions Certification,** CFF (Clean Fuel Fleet) LEV (Low Emission Vehicle). Option (VCL) should ONLY be ordered to receive the CFF LEV certification. If (VCL) is not ordered, the vehicle will be produced with your normally selected emission system and may not be CFF LEV certified. Products ordered with the (VCL) option may not be certified to California emission requirements. Therefore, they may not be legal for registration in California, New York, Maine, Massachusetts and Vermont. Option (YF5) should be ordered for all vehicles ordered in California. Option (NE1) should be ordered for all vehicles ordered in Maine or Vermont. 1 - Only available with (LU3) Engine, Vortec 4300 V6 MFI (CG13406 Model only), (LM7) Engine, Vortec 5300 V8 SFI (C*13406 Models only), and (LQ4) Engine, Vortec 6000 V8 SFI (CG23406, CG33406 and CG33706 Models only). Requires (ZX5) Seating, 12-passenger on the *G23406 and *G33406 Models. Requires (ZX5) Seating, 12-passenger or (ZP3) Seating, 15-passenger on the *G33706 Model.	A[1]	A[1]
	LU3	**Engine,** Vortec 4300 V6 MFI (195 HP [145.4 kW] @ 4600 rpm, 260 lb.-ft. [351.0 N-m] @ 2800 rpm) 1 - Standard and only available on *G13406 Models. Reference the Engine/Axle page for availability.	S[1]	S[1]
	LR4	**Engine,** Vortec 4800 V8 SFI (285 HP [212.6 kW] @ 5200 rpm, 295 lb.-ft. [398.3 N-m] @ 4000 rpm) 1 - Includes external engine oil cooler. Standard on the *G23406 Model. Reference the Engine/Axle page for availability.	S[1]	S[1]
LM7		**Engine,** Vortec 5300 V8 SFI (295 HP [220 kW] @ 5200 rpm, 335 lb.-ft. [452.25 N-m] @ 4000 rpm) 1 - Standard on *H13406 Model. Available on *G13406 Model. Reference the Engine/Axle page for availability.	A[1]	A[1]
LQ4		**Engine,** Vortec 6000 V8 SFI (300 HP [223.8 kW] @ 4400 rpm, 360 lb.-ft. [486.6 N-m] @ 4000 rpm) 1 - Standard on *G33*06 Models. Available on *G23406 Model. Includes external engine oil cooler. Reference the Engine/Axle page for availability.	A[1]	A[1]
		Exhaust, aluminized stainless-steel muffler and tailpipe	S	S
		Frame, ladder-type	S	S
	C5Z	GVWR, 7200 lbs. (3266 kg) 1 - Standard and only available on **13406 Models. Reference the Engine/Axle page for availability.	S[1]	S[1]
	C6P	GVWR, 8600 lbs. (3901 kg) 1 - Standard and only available on *G23406 Model. Reference the Engine/Axle page for availability.	S[1]	S[1]
	C6Y	GVWR, 9600 lbs. (4354 kg) 1 - Standard and only available on *G33*06 Models. Reference the Engine/Axle page for availability.	S[1]	S[1]
		Oil life monitor	S	S
	GU6	Rear axle, 3.42 ratio 1 - Standard and only available on **13406 Models. Reference the Engine/Axle page for availability.	S[1]	S[1]
GT4		Rear axle, 3.73 ratio 1 - Standard on the *G23406 and *G33*06 Models. Available on **13406 Models with (LM7) Engine, Vortec 5300 V8 SFI. Reference the Engine/Axle page for availability.	A[1]	A[1]

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1LS and 1LT are available on C**13406, CG23406, CG33406 and CG33706 Models.	LS 1LS[1]	LT 1LT[1]
GT5		**Rear axle,** 4.10 ratio 1 - Requires *G23406 Model. Reference the Engine/Axle page for availability.	A[1]	A[1]
	JL4	**StabiliTrak,** Stability Control 1 - Includes Traction Assistance. Standard and only available on the *G33406 and *G33706 Models. Not available on any other models at this time.	S[1]	S[1]
		Steering, power	S	S
		Suspension, front, independent coil springs and stabilizer bar 1 - Standard and only available on *G***06 Models.	S[1]	S[1]
		Suspension, front, independent torsion bar (computer selected) and stabilizer bar 1 - Standard and only available on *H13406 Model.	S[1]	S[1]
		Suspension, rear, hypoid drive axle with multi-leaf springs	S	S
Z82		**Trailering equipment,** heavy-duty, includes trailering hitch platform and 7-lead wiring harness 1 - Includes (UY7) Trailer wiring, 7-lead harness.	A[1]	A[1]
UY7		**Trailer wiring,** 7-lead harness 1 - Included with (Z82) Trailering equipment, heavy-duty.	A[1]	A[1]
		Transfer case, all-wheel drive 1 - Only standard on CH13406.	S[1]	S[1]
	M30	**Transmission,** 4-speed automatic, electronically controlled with overdrive, tow/haul mode and internal transmission oil cooler 1 - Standard and only available on **13406 Models. Reference the Engine/Axle page for availability.	S[1]	S[1]
	MT1	**Transmission,** 4-speed automatic, heavy-duty, electronically controlled with overdrive, tow/haul mode and internal transmission oil cooler 1 - Standard and only available on *G23406, *G33406, or *G33706 Models. Reference the Engine/Axle page for availability.	S[1]	S[1]
V14		**Transmission oil cooler,** external 1 - Requires (LQ4) Engine, Vortec 6000 V8 SFI.	A[1]	A[1]

2006 Chevrolet Truck Express Passenger — ENGINE/AXLE

S = Standard Equipment A = Available -- (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

		Transmissions		Axles			GVWR lbs. (kg)		
Model	Engine	M30 4-Speed Automatic	MT1 4-Speed Automatic HD	GU6 3.42	GT4 3.73	GT5 4.10	C5Z 7200 (3266)	C6P 8600 (3901)	C6Y 9600 (4354)
1500									
CG13406	LU3 Vortec 4300 V6 MFI	S	--	S	--	--	S	--	--
	LM7 Vortec 5300 V8 SFI	S	--	S	A	--	S	--	--
CH13406	LM7 Vortec 5300 V8 SFI	S	--	S	A	--	S	--	--
2500									
CG23406	LR4 Vortec 4800 V8 SFI	--	S	--	S	A	--	S	--
	LQ4 Vortec 6000 V8 SFI	--	S	--	S	A	--	S	--
3500									
CG33406	LQ4 Vortec 6000 V8 SFI	--	S	--	S	--	--	--	S
CG33706	LQ4 Vortec 6000 V8 SFI	--	S	--	S	--	--	--	S

2006 Chevrolet Truck Express Passenger — COLOR AND TRIM - SOLID PAINT ZY1

S = Standard Equipment A = Available -- (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Decor Level	Seat Type	Seat Code	Seat Trim	Interior	
				Neutral	Medium Dark Pewter
LS	Reclining high-back buckets	AR7	Custom Vinyl	52W	93W
LS/LT	Reclining high-back buckets with inboard armrests	AS5	Custom Cloth	52G	93G

Exterior Solid Paint	Color Code	Touch Up Paint Number	Interior	
			Neutral	Medium Dark Pewter
Sandstone Metallic	15U	WA-929L	A	--
NEW! Graystone Metallic	16U	WA-213M	--	A
Dark Blue Metallic	25U	WA-722J	A	A
Black[1]	41U	WA-8555	A	A
Dark Green Metallic	47U	WA-9539	A	A
Summit White	50U	WA-8624	A	A
Silver Birch Metallic	59U	WA-926L	--	A
NEW! Sport Red Metallic[1]	63U	WA-817K	A	A
Victory Red[1]	74U	WA-9260	A	A

Above interior trim combinations are the only combinations allowed.
1 - Not available with (B46) Trim, rear body-colored halo.

2006 Chevrolet Truck Express Passenger — COLOR AND TRIM - SEO SOLID PAINT

S = Standard Equipment A = Available – (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Decor Level	Seat Type	Seat Code	Seat Trim	Interior	
				Neutral	Medium Dark Pewter
Base	Reclining high-back buckets	AR7[1]	Custom Vinyl	52W	93W
Base/LS	Reclining high-back buckets with inboard armrests	AS5[2]	Custom Cloth	52G	93G

Exterior Solid Paint	Color Code	Touch Up Paint Number	Interior	
			Neutral	Medium Dark Pewter
Yellow	none	WA-5456	A	A
Green	none	WA-7927	A	A
Green	none	WA-7941	A	A
Silver Metallic	none	WA-8867	A	A
Green, Woodland	9V5	WA-9015	A	A
Doeskin Tan	9V9	WA-9403	A	A
Tangier Orange	9W4	WA-9417	A	A
Light Stellar Blue	none	WA-146B	A	A
Orange	none	WA-9419	A	A
Yellow	none	WA-215D	A	A
Wheatland Yellow	9W3	WA-253A	A	A
Yellow	none	WA-259L	A	A
Madrid Red	none	WA-341D	A	A
Yellow	none	WA-478G	A	A
Galaxy Silver Metallic	none	WA-519F	A	A
Bronzemist	none	WA-529F	A	A
NEW! Yellow	none	WA-9414	A	A

NOTE: Exterior SEO solid paints are not available with (B46) Trim, rear body-colored halo.
1 - Standard on Base with 1SA and not available on LS with 1SB.
2 - Available on Base with 1SA and standard on LS with 1SB.

2006 Chevrolet Truck Express Passenger — SEO OPTIONS/SHIP THRU CODES

S = Standard Equipment A = Available – (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

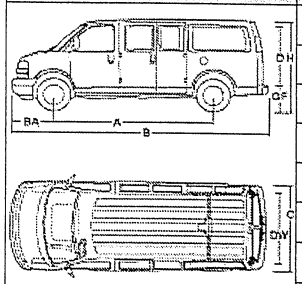
Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1LS and 1LT are available on C13406, CG23406, CG33406 and CG33706 Models.	LS 1LS[1]	LT 1LT[1]
		Interior		
AU0		**Keyless entry, remote (MSRP = $170.00)** Remote keyless entry with base decor. Includes 2 transmitters. 1 - Requires RPO (ZQ2) Convenience Package.	A[1]	■
5X0		**Rear Carpet with no rear seat slots (MSRP with Models G13406 or G23406 = $350.00, MSRP with G33706 = $392.00)** 1 - Requires Models G13406, G23406 or G33706. Requires Fleet, Federal Government or Upfitter order type, SEO (ZX2) Seat, rear delete and Trim code (93G) Pewter Custom Cloth. Not available with RPO (E26) Door, swing-out driver side, 60/40 split.	–	A[1]
AG1		**Seat adjuster, power, driver 6-way (MSRP = $275.00)** Provides multi directional power driver seat adjuster with custom cloth front bucket seats and vinyl rear bench seats. 1 - Requires Model G33706. Requires SEO (5T5) Seats, front Custom Cloth buckets with vinyl rear seats, trim code (93W) Pewter vinyl and a Fleet or Federal Government or Political Subdivision sales order.	A[1]	–
ZX2		**Seat, rear delete (MSRP = -$857.00 Credit) with Model G13406, (MSRP = -$1,210.00 Credit) with Models G23406 or G33706** Upfitter Option. Deletes all of the bench seats and seat tracks behind the driver and passenger front bucket seats. Deletes rear floor carpeting and rear shoulder belts. Deletes seat anchor slots, provides ship loose jack and tool package. Provides an incomplete vehicle document and a bus VIN identification. 1 - Requires Models G13406, G23406 or G33706 and a Fleet, Federal Government or Upfitter order type.	–	A[1]
ZP5		**Seating, 5 passenger (MSRP = -$532.00 Credit)** Fleet Option. Single bench seat behind the front driver and passenger bucket seats. Deletes the intermediate rear 3 passenger and rear 4 passenger bench seats. Also deletes shoulder belts. Provides a multipurpose vehicle identification. 1 - Requires a Fleet or Federal Government sales order. Not available on Models G/H13406.	A[1]	A[1]
8V5		**Seating, 10-passenger with driver seat only (MSRP = -$234.00 Credit)** Deletes the front passenger bucket seat and provides a 3 passenger rear bench seat in lieu of the standard 4 passenger. Provides a multipurpose vehicle identification. 1 - Requires Model G33706. Not available with RPO (AG2) Seat adjuster, power, front passenger 6-way or RPO (B30) Floor covering, color-keyed carpeting. Not available with RPO (LLY) Engine, Duramax 6600 Turbo Diesel V8. This option also forces RPO (AJ3) Drivers side only front inflatable restraint.	A[1]	–
5T5		**Seats, front Custom Cloth buckets with vinyl rear seats (MSRP = $50.00)** On a base decor level passenger van; retains the standard vinyl rear bench seats. 1 - Requires Model G33706, Trim code (93W) Medium Dark Pewter. Standard 12-passenger seating, RPO (ZP3) Seating, 15-passe3nger or SEO (8V5) 10-passenger seating. Requires a Fleet, Political Subdivision or Federal Government order type. SEO (5T5) will convert front seat to cloth. Not available with SEO (ZP5) 5-passenger seating.	A[1]	–

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1LS and 1LT are available on C*13406, CG23406, CG33406 and CG33706 Models.	LS 1LS[1]	LT 1LT[1]
9R0		**Sound system, ETR AM/FM stereo with cassette (MSRP = W/A)** AM/FM radio with cassette and digital clock, no CD player. **1 - Requires a Fleet or Federal Government sales order.**	A[1]	A[1]
9J6		**Steering column, tilt (MSRP = $145.00)** Tilt-steering column without cruise control. **1 - Not available with Model CG33*06 or with RPO (ZQ3) Convenience Package.**	A[1]	--
5C5		**Vinyl Sun Visors (MSRP = No Charge)** Provides vinyl sun visors when deluxe cloth bucket seats are ordered. Replaces cloth sun visors. **1 - Requires a Fleet or Federal Government sales order and RPO (AS5) Seats, front Custom Cloth buckets. Not available with RPO (DH6) Visor, padded, driver and passenger side with cloth trim and dual vanity mirrors.**	A[1]	A[1]
		Exterior		
5Z5		**Hubcap delete (MSRP = -$10.00 Credit)** Deletes hub caps from standard wheels. **1 - Not available with RPO (P03) Wheels, chrome center caps or RPO (PY2) Wheels, chrome styled steel.**	A[1]	--
5X8		**Key, side cargo and rear door (MSRP = $40.00)** A unique key for side and rear cargo doors, separate from driver area ignition and door key. **1 - Not available with RPO (E26) Door, swing-out driver side.**	A[1]	A[1]
8X1		**Label, fasten safety belts (MSRP = $2.00)** "Fasten Safety Belts" reminder label on side door window glass.	A	A
9V9		**Paints, solid (MSRP = No Charge),** Doeskin Tan **1 - Requires SEO (TGK) Special Paint, one color. Not available with RPO (B46) Trim, rear body-colored halo.**	A[1]	A[1]
9W4		**Paints, solid (MSRP = No Charge),** Tangier Orange **1 - Requires SEO (TGK) Special Paint, one color. Not available with RPO (B46) Trim, rear body-colored halo.**	A[1]	A[1]
9W3		**Paints, solid (MSRP = No Charge),** Wheatland Yellow **1 - Requires SEO (TGK) Special Paint, one color. Not available with RPO (B46) Trim, rear body-colored halo.**	A[1]	A[1]
9V5		**Paints, solid (MSRP = No Charge),** Woodland Green **1 - Requires SEO (TGK) Special Paint, one color. Not available with RPO (B46) Trim, rear body-colored halo.**	A[1]	A[1]
TGK		**Solid Paint** SEO solid paint, one color **1 - Required with any SEO paint selection. Not available with RPO (B46) Trim, rear body-colored halo. May require extended lead time.**	A[1]	A[1]
Q8C		**Tire valve stem caps, air thru (MSRP = $6.00)** Air through valve caps on the tire air valves. **1 - Not available on Models G/H13406.**	A[1]	A[1]

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1LS and 1LT are available on C*13406, CG23406, CG33406 and CG33706 Models.	LS 1LS[1]	LT 1LT[1]
5R3		**Tire valve stems, brass (MSRP = $20.00)** Brass metal valve stems in lieu of standard. Also included on spare tire. **1 - Not available on Models G/H13406.**	A[1]	A[1]
5G0		**Wheels, painted Black (MSRP = $25.00)** Black painted wheels in lieu of standard Gray painted wheels. **1 - Not available with Models G/H13406 or RPO (P03) Wheels, chrome center caps.**	A[1]	--
		Mechanical		
8E1		**Fuel, additional 3 gallons (MSRP = $10.00)** 3 gallons of fuel in addition to normal assembly plant fill.	A	A
		Ship Thru Codes		
TBM		**Ship Thru for all Models (MSRP = $110.00)** Produced in Wentzville and shipped to Adrian Steel	A	A
TBQ		**Ship Thru for all Models (MSRP = $350.00)** Produced in Wentzville and shipped to Ft. Wayne Fleet Equipment	A	A
TCC		**Ship Thru for all Models (MSRP = $640.00)** Produced in Wentzville and shipped to Quigley	A	A
VAD		**Ship Thru for all Models (MSRP = $60.00)** Produced in Wentzville and shipped to Crown/Masterack	A	A
VAP		**Ship Thru for all Models (MSRP = $220.00)** Produced in Wentzville and shipped to Knapheide Truck Equipment	A	A
VAR		**Ship Thru for all Models (MSRP = $385.00)** Produced in Wentzville and shipped to Midway	A	A
VCP		**Ship Thru for all Models (MSRP = $185.00)** Produced in Wentzville and shipped to OEM Systems.	A	A

All dimensions in inches (mm) unless otherwise stated.



	Specifications	CG13406 G1500 Regular Wheelbase RWD *	CH13406 G1500 Regular Wheelbase AWD	CG23406 G2500 Regular Wheelbase RWD [see message below]	CG33406 G3500 Regular Wheelbase RWD	CG33706 G3500 Extended Wheelbase RWD
A	Wheelbase	135.00 (3429)	135.00 (3429)	135.00 (3429)	135.00 (3429)	155.00 (3937)
B	Overall length	224.10 (5692)	224.10 (5692)	224.10 (5692)	224.10 (5692)	244.10 (6200)
C	Body width	79.40 (2017)	79.40 (2017)	79.40 (2017)	79.40 (2017)	79.40 (2017)
D	Overall height	81.60 (2073)	81.60 (2073)	81.60 (2073)	81.60 (2073)	82.00 (2083)
	Head room, 1st row	40.20 (1021)	40.20 (1021)	40.20 (1021)	40.20 (1021)	40.20 (1021)
	Head room, 2nd row	38.50 (978)	38.50 (978)	38.50 (978)	38.50 (978)	38.50 (978)
	Head room, 3rd row	38.60 (980)	38.60 (980)	38.60 (980)	38.60 (980)	38.60 (980)
	Head room, 4th row	–	–	38.10 (968)	38.10 (968)	38.10 (968)
	Head room, 5th row	–	–	–	–	38.10 (968)
	Shoulder room, 1st row	68.80 (1748)	68.80 (1748)	68.80 (1748)	68.80 (1748)	68.80 (1748)
	Shoulder room, 2nd row	68.90 (1750)	68.90 (1750)	68.90 (1750)	68.90 (1750)	68.90 (1750)
	Shoulder room, 3rd row	63.50 (1613)	63.50 (1613)	63.50 (1613)	63.50 (1613)	63.50 (1613)
	Shoulder room, 4th row	–	–	68.30 (1735)	68.30 (1735)	68.30 (1735)
	Shoulder room, 5th row	–	–	–	–	62.70 (1593)
	Hip room, 1st row	65.50 (1664)	65.50 (1664)	65.50 (1664)	65.50 (1664)	65.50 (1664)
	Hip room, 2nd row	66.00 (1676)	66.00 (1676)	66.00 (1676)	66.00 (1676)	66.00 (1676)
	Hip room, 3rd row	64.40 (1636)	64.40 (1636)	64.40 (1636)	64.40 (1636)	64.40 (1636)
	Hip room, 4th row	–	–	59.60 (1514)	59.60 (1514)	59.60 (1514)
	Hip room, 5th row	–	–	–	–	63.20 (1605)

All dimensions in inches (mm) unless otherwise stated.

	Specifications	CG13406 G1500 Regular Wheelbase RWD	CH13406 G1500 Regular Wheelbase AWD	CG23406 G2500 Regular Wheelbase RWD [see message below]	CG33406 G3500 Regular Wheelbase RWD	CG33706 G3500 Extended Wheelbase RWD
	Leg room, 1st row	41.30 (1049)	41.30 (1049)	41.30 (1049)	41.30 (1049)	41.30 (1049)
	Leg room, 2nd row	34.80 (884)	34.80 (884)	34.80 (884)	34.80 (884)	34.80 (884)
	Leg room, 3rd row	37.60 (955)	37.60 (955)	37.60 (955)	37.60 (955)	37.60 (955)
	Leg room, 4th row	–	–	39.80 (1011)	39.80 (1011)	39.80 (1011)
	Leg room, 5th row	–	–	–	–	36.40 (925)
BA	Front bumper to axle	39.70 (1008)	39.70 (1008)	39.70 (1008)	39.70 (1008)	39.70 (1008)
	Opening height, side door	47.90 (1217)	47.90 (1217)	47.90 (1217)	47.90 (1217)	47.90 (1217)
DH	Opening height, rear door	49.40 (1255)	49.40 (1255)	49.40 (1255)	49.40 (1255)	49.40 (1255)
	Opening width, sliding side door	44.10 (1120)	44.10 (1120)	44.10 (1120)	44.10 (1120)	44.10 (1120)
DW	Opening width, rear door, at belt line	57.00 (1448)	57.00 (1448)	57.00 (1448)	57.00 (1448)	57.00 (1448)
	Step up height, front door	17.90 (455)	17.90 (455)	19.40 (493)	19.40 (493)	19.30 (490)
	Step up height, side door	18.80 (478)	18.80 (478)	20.20 (513)	20.20 (513)	20.00 (508)
GF	Ground to top of rear load floor	25.00 (635)	25.00 (635)	27.70 (704)	27.70 (704)	27.30 (693)
	Load floor length, to front seat, at floor	127.80 (3246)	127.80 (3246)	127.80 (3246)	127.80 (3246)	147.80 (3754)
	Load floor length, to engine cover, at floor	153.60 (3901)	153.60 (3901)	153.60 (3901)	153.60 (3901)	173.60 (4409)
	Inside width, between wheelhousing	50.50 (1283)	50.50 (1283)	50.50 (1283)	50.50 (1283)	50.50 (1283)
	Cargo area height	51.90 (1318)	51.90 (1318)	51.90 (1318)	51.90 (1318)	51.90 (1318)
	Ground clearance, front	8.00 (203)	8.00 (203)	8.20 (208)	8.20 (208)	8.10 (206)
	Ground clearance, rear	7.40	7.40	7.10	7.10	7.70

2006 Chevrolet Truck Express Passenger — DIMENSIONS

All dimensions in inches (mm) unless otherwise stated.

Specifications	CG13406 G1500 Regular Wheelbase RWD	CH13406 G1500 Regular Wheelbase AWD	CG23406 G2500 Regular Wheelbase RWD [see message below]	CG33406 G3500 Regular Wheelbase RWD	CG33706 G3500 Extended Wheelbase RWD
	(188)	(188)	(180)	(180)	(196)

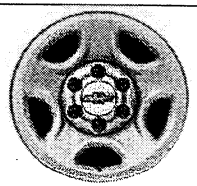
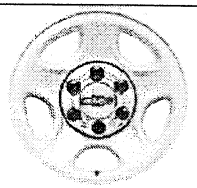
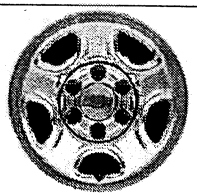
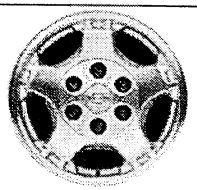
Published dimensions indicated are without optional equipment or accessories. Additional accessories or equipment ordered at the customer's request can result in a minor change in these dimensions.

2006 Chevrolet Truck Express Passenger — SPECS

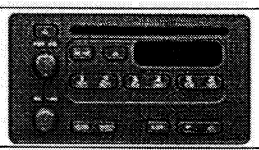
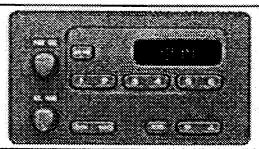
	CG13406 G1500 Regular Wheelbase RWD	CH13406 G1500 Regular Wheelbase AWD	CG23406 G2500 Regular Wheelbase RWD [see message below]	CG33406 G3500 Regular Wheelbase RWD	CG33706 G3500 Extended Wheelbase RWD
Specifications					
Front stabilizer bar diameter, In. (mm)	1.30 (33)	1.30 (33)	1.38 (35)	1.38 (35)	1.38 (35)
Capacities					
Curb weight, lbs. (kg)	5295 (2402)	5593 (2537)	5892 (2673)	6009 (2726)	6330 (2871)
Cargo volume, regular, with seats, cu. ft. (liters)	204.0 (5777.3)	204.0 (5777.3)	204.0 (5777.3)	204.0 (5777.3)	--
Cargo volume, regular, with seats removed, cu. ft. (liters)	217.3 (6153.9)	217.3 (6153.9)	217.3 (6153.9)	217.3 (6153.9)	--
Cargo volume, extended, with seats, cu. ft. (liters)	--	--	--	--	236.3 (6692.0)
Cargo volume, extended, with seats removed, cu. ft. (liters)	--	--	--	--	252.6 (7153.6)
Payload[1], lbs. (kg)	1905 (864)	1607 (729)	2708 (1228)	3591 (1629)	3270 (1483)
Gross Vehicle Weight Rating (GVWR), lbs. (kg)	7200 (3266)	7200 (3266)	8600 (3901)	9600 (4355)	9600 (4355)
Front Gross Axle Weight Rating (GAWR), lbs. (kg)	3600 (1633)	3600 (1633)	4100 (1860)	4300 (1950)	4300 (1950)
Rear Gross Axle Weight Rating (GAWR), lbs. (kg)	4000 (1814)	4000 (1814)	5360 (2431)	6084 (2760)	6084 (2760)
Fuel capacity, approximate, gallon (liters)	31 (117)	31 (117)	31 (117)	31 (117)	31 (117)
Seating capacity (front/2nd/3rd/4th)	2/3/3/-	2/3/3/-	2/3/3/4	2/3/3/4	2/3/3/4

1. Maximum payload capacity includes weight of driver, passengers, optional equipment and cargo.

2006 Chevrolet Truck Express Passenger — WHEELS

	**Wheels,** Gray painted, includes Gray center caps and steel spare
	P03 **Wheels,** Gray painted, includes chrome center caps and steel spare
	PY2 **Wheels,** 4 - chrome-styled steel, includes chrome center caps and steel spare
	PF9 **Wheels,** 4 - 16" x 7" (40.6 cm x 17.8 cm) cast aluminum, includes steel spare

2006 Chevrolet Truck Express Passenger — RADIOS

	U1C **Sound system,** ETR AM/FM stereo with CD player, includes seek-and-scan, digital clock, TheftLock and random select. Includes front door speakers (2) and overhead rear sound bar (2)
	UB1 **Sound system,** ETR AM/FM stereo with CD and cassette player, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume, TheftLock, random select, auto-reverse cassette and Radio Data System (RDS). Includes front door speakers (2), overhead rear sound bar (2) and rear door speakers (2)
	UC6 **Sound system,** ETR AM/FM stereo with 6-disc CD changer, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume, TheftLock, random select and Radio Data System (RDS). Includes front door speakers (2), overhead rear sound bar (2) and rear door speakers (2)
	UM7 **Sound system,** ETR AM/FM stereo, includes seek-and-scan and digital clock. Includes front door speakers (2) and overhead rear sound bar (2)

Option Code	Description
40P	Wheel finish, painted White
5C5	Vinyl Sun Visors (MSRP = No Charge)Provides vinyl sun visors when deluxe cloth bucket seats are ordered. Replaces cloth sun visors.
5G0	Wheels, painted Black (MSRP = $25.00)
5T5	Seats, front Custom Cloth buckets with vinyl rear seats (MSRP = $50.00)
5X0	Rear Carpet with no rear seat slots (MSRP with Models G13406 or G23406 = $350.00, MSRP with G33706 = $392.00)
5X8	Key, side cargo and rear door (MSRP = $40.00)
5Z5	Hubcap delete (MSRP = -$10.00 Credit)
8E1	Fuel, additional 3 gallons (MSRP = $10.00)
8R3	Tire valve stems, brass (MSRP = $20.00)
8V5	Seating, 10-passenger with driver seat only (MSRP = -$234.00 Credit)
8X1	Label, fasten safety belts (MSRP = $2.00)
9J6	Steering column, tilt (MSRP = $145.00)
9R0	Sound system, ETR AM/FM stereo with cassette (MSRP = W/A)
9V5	Paints, solid (MSRP = No Charge), Woodland Green
9V9	Paints, solid (MSRP = No Charge), Doeskin Tan
9W3	Paints, solid (MSRP = No Charge), Wheatland Yellow
9W4	Paints, solid (MSRP = No Charge), Tangier Orange
A18	Glass, rear cargo door windows, swing-out
A19	Glass, side door, swing-out
AG1	Seat adjuster, power, driver 6-way
AG1	Seat adjuster, power, driver 6-way (MSRP = $275.00)Provides multi directional power driver seat adjuster with custom cloth front bucket seats and vinyl rear bench seats.
AG2	Seat adjuster, power, front passenger 6-way
AJ1	Glass, Solar-Ray deep tinted
AK5	Air bags, frontal, driver and right front passenger
AR7	Seats, front vinyl reclining buckets
AS5	Seats, front Custom Cloth buckets
AU0	Keyless entry, remote
AU0	Keyless entry, remote (MSRP = $170.00)
AU3	Door locks, power
B30	Floor covering, full-floor color-keyed carpeting
B38	Floor covering, Black rubberized vinyl full length floor covering
B46	Trim, rear body-colored halo
BA3	Console, deluxe
C36	Heater, rear
C49	Defogger, rear-window, electric
C5Z	GVWR, 7200 lbs. (3266 kg)
C60	Air conditioning, front manual
C69	Air conditioning, rear
C6P	GVWR, 8600 lbs. (3901 kg)
C6Y	GVWR, 9600 lbs. (4354 kg)
D31	Mirror, inside rearview
DE2	Mirrors, outside rearview
DE5	Mirrors, outside rearview
DE7	Mirrors, outside rearview
DF5	Mirror, inside rearview, electrochromic
DH6	Visors, padded

2006 Chevrolet Truck Express Passenger RPO CODES

Option Code	Description
DT4	Smoker's Package
E24	Door, swing-out passenger side
E26	Door, swing-out driver side
FE9	Emissions, Federal requirements
G80	Differential, locking, heavy-duty, rear
GT4	Rear axle, 3.73 ratio
GT5	Rear axle, 4.10 ratio
GU6	Rear axle, 3.42 ratio
JL4	StabiliTrak
K68	Alternator, 105 amps
KG3	Alternator, 145 amps
KL5	Alternative fuel conversion-ready engine
LM7	Engine, Vortec 5300 V8 SFI
LQ4	Engine, Vortec 6000 V8 SFI
LR4	Engine, Vortec 4800 V8 SFI
LU3	Engine, Vortec 4300 V6 MFI
M30	Transmission, 4-speed automatic
MT1	Transmission, 4-speed automatic, heavy-duty
NB8	Emissions override
NC7	Emissions override, Federal
NE1	Emissions, Maine, Massachusetts, New York or Vermont state requirements
NP5	Steering wheel, leather-wrapped
P03	Wheels, Gray painted
PDN	Power and Light Package
PF9	Wheels, 4 - 16" x 7" (40.6 cm x 17.8 cm) cast aluminum, includes steel spare
PY2	Wheels, 4 - chrome-styled steel
Q8C	Tire valve stem caps, air thru (MSRP = $6.00)
TBM	Ship Thru for all Models (MSRP = $110.00)Produced in Wentzville and shipped to Adrian Steel
TBQ	Ship Thru for all Models (MSRP = $350.00)Produced in Wentzville and shipped to Ft. Wayne Fleet Equipment
TCC	Ship Thru for all Models (MSRP = $640.00)Produced in Wentzville and shipped to Quigley
TGK	Solid PaintSEO solid paint, one color
TR9	Lighting, auxiliary
U05	Horn, dual-note
U1C	Sound system, ETR AM/FM stereo with CD player
UA1	Battery, heavy-duty, 800 cold-cranking amps
UB1	Sound system, ETR AM/FM stereo with CD and cassette player
UC6	Sound system, ETR AM/FM stereo with 6-disc CD changer
UM7	Sound system, ETR AM/FM stereo
UY7	Trailer wiring, 7-lead harness
V10	Cold Climate Package
V14	Transmission oil cooler, external
V22	Grille, chrome
V37	Bumpers, front and rear, chrome
VAD	Ship Thru for all Models (MSRP = $60.00)Produced in Wentzville and shipped to Crown/Masterack
VAP	Ship Thru for all Models (MSRP = $220.00)Produced in Wentzville and shipped to Knapheide Truck Equipment

2006 Chevrolet Truck Express Passenger — RPO CODES

Option Code	Description
VAR	Ship Thru for all Models (MSRP = $385.00)Produced in Wentzville and shipped to Midway
VCL	Emissions Certification, CFF (Clean Fuel Fleet) LEV (Low Emission Vehicle).
VCP	Ship Thru for all Models (MSRP = $185.00)Produced in Wentzville and shipped to OEM Systems.
VK3	License plate kit, front
XEN	Tires, front P235/75R16EL, all-season, blackwall
XEP	Tires, front P235/75R16EL, all-season, White outlined-letter
XHF	Tires, front LT225/75R16E, all-season, blackwall
XHH	Tires, front LT245/75R16E, all-season, blackwall
XNK	Tires, front P245/75R16, all-season, blackwall
YA2	Door, sliding passenger side
YEN	Tires, rear P235/75R16EL, all-season, blackwall
YEP	Tires, rear P235/75R16EL, all-season, White outlined-letter
YF5	Emissions, California state requirements
YHF	Tires, rear LT225/75R16E, all-season, blackwall
YHH	Tires, rear LT245/75R16E, all-season, blackwall
YNK	Tires, rear P245/75R16, all-season, blackwall
Z82	Trailering equipment, heavy-duty
ZEN	Tire, spare P235/75R16EL, all-season, blackwall
ZEP	Tires, spare P235/75R16EL, all-season, White outlined-letter
ZHF	Tire, spare LT225/75R16E, all-season, blackwall
ZHH	Tire, spare LT245/75R16E, all-season, blackwall
ZNK	Tire, spare P245/75R16, all-season, blackwall
ZP3	Seating, 15-passenger
ZP5	Seating, 5 passenger (MSRP = -$532.00 Credit) Fleet Option.
ZP8	Seating, 8-passenger
ZQ2	Convenience Package
ZQ3	Convenience Package
ZR7	Chrome Appearance Package
ZW6	Glass, full body window package
ZW9	Body, standard
ZX2	Seat, rear delete (MSRP = -$857.00 Credit) with Model G13406, (MSRP = -$1,210.00 Credit) with Models G23406 or G33706 Upfitter Option.
ZX5	Seating, 12-passenger
ZY1	Paint, solid

2006 Chevrolet Truck Express Passenger — TRAILERING SPECS

Maximum trailer ratings are calculated assuming standard equipped vehicle, driver and required trailering equipment. The weight of optional equipment, passengers and cargo will reduce the maximum trailer weight your vehicle can tow. 10 to 15% of the trailer weight is the recommended trailer tongue load.

Automatic Transmission Ratings

Model	(LU3) Vortec 4300 V6 MFI		(LM7) Vortec 5300 V8 SFI		(LQ4) Vortec 6000 V8 SFI	
	Axle Ratio	Maximum Trailer Weight lbs. (kg)	Axle Ratio	Maximum Trailer Weight lbs. (kg)	Axle Ratio	Maximum Trailer Weight lbs. (kg)
CG13406	3.42	3900 (1769)	3.42	6300 (2858)		
			3.73	6300 (2858)		
CH13406			3.42	6100 (2767)		
			3.73	6100 (2767)		
CG23406					3.73	7800 (3538)
					4.10	9800 (4445)
CG33406					3.73	7700 (3493)
					4.10	9700 (4400)
CG33706					3.73	7400 (3357)
					4.10	9400 (4264)

The wiring system is designed to operate with maximum performance and reliability. Adding electrical accessories to the vehicle for which it was not designed, would case abnormalities in the electrical system.

The electrical system was designed to handle one additional stop/turn light bulb per tail light circuit (one added stop/turn light bulb to the right and left side). It is not recommended to add more than one bulb per circuit as it will result in damage to the electrical system (without optional trailer Towing Wiring). It is highly recommended to order the van with the optional Trailer Wiring, 7-lead harness (UY7) for towing.

GCWR For Engine/Rear Axle Ratio Combination with Automatic Transmission

Engine	(GCWR) Gross Combination Weight Ratings lbs. (kg)			
	9500 (4309)	12000 (5443)	14000 (6350)	16000 (7258)
(LU3) Vortec 4300 V6 MFI	3.42			
(LM7) Vortec 5300 V8 SFI		3.42 /3.73		
(LQ4) Vortec 6000 V8 SFI			3.73	4.10

S = Standard Equipment A = Available – (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on C*13405, CG23405, CG23705, CG33405 and CG33705 Models.	Work Van 1WT[1]
	AK5	**Air bags,** frontal, driver and right front passenger **1 - Includes passenger side air bag deactivation switch on Models with GVWR, 8600 lbs. (3901 kg) and above. Not available with (ZX1) Seat, driver only high-back reclining bucket or (AJ3) Air bag, frontal, driver side only. Always use safety belts and proper child restraints, even with air bags. Children are safer when properly secured in a rear seat. See the Owner's Manual for more safety information.**	S[1]
		Air bag deactivation switch, passenger side **1 - Requires (C6P) GVWR, 8600 lbs. (3901 kg) or (C6Y) GVWR, 9600 lbs. (4354 kg).**	S[1]
	C60	**Air conditioning,** front manual	S
		Assist handle, front passenger	S
		Console, base, includes open storage bin	S
		Cupholders, 3, on engine console cover	S
		Defogger, side window	S
	B38	**Floor covering,** Black rubberized vinyl full length floor covering **1 - Not available with (YF2) Ambulance Package.**	S[1]
		Headliner, cloth, over driver and passenger	S
		Instrumentation, analog, includes speedometer, odometer with trip odometer, fuel level, voltmeter, engine temperature and oil pressure	S
		Key, single, 2-sided	S
		Lighting, 2 dome lamps, includes defeat switch and door handle-activated switches	S
	D31	**Mirror,** inside rearview, manual day/night	S
		Power outlet, auxiliary, 2 covered, on engine console cover, 12-volt	S
	ZX2	**Seats,** driver and passenger high-back reclining buckets, adjustable, with head restraints and vinyl or cloth trim	S
	AR7	**Seats,** front vinyl reclining buckets, includes head restraints **1 - Requires (**W) Interior Trim.**	S[1]
	UXZ	**Sound system,** radio provisions only, includes alarm warning chimes, radio wiring harness, radio antenna and front door speakers (2) **1 - Not available with (PCH) Hotel Shuttle Package.**	S[1]
		Steering wheel, steel sleeve column, includes theft-deterrent locking feature, Black	S
		Theft-deterrent system, PASSlock	S
		Tow/haul mode selector, IP mounted	S
		Visors, padded, driver and passenger side	S
		Warning tones, headlamp on, key-in-ignition	S
	ZW9	**Body,** standard	S

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on C*13405, CG23405, CG23705, CG33405 and CG33705 Models.	Work Van 1WT[1]
		Bumpers, front and rear, painted Black, includes step-pad **1 - Not available with (ZR7) Chrome Appearance package.**	S[1]
		Daytime running lamps	S
	E24	**Door,** swing-out passenger side, 60/40 split	S
		Door beams, steel-side	S
		Glass, Solar-Ray light tinted, all windows	S
		Grille, Black composite, with single rectangular halogen headlamps **1 - Not available with (ZR7) Chrome Appearance Package.**	S[1]
		Headlamps, single rectangular halogen **1 - Not available with (ZR7) Chrome Appearance Package.**	S[1]
	VK3	**License plate kit,** front	S
	DE2	**Mirrors,** outside rearview, manual folding, Black **1 - If the van is an extended Model (*G**7**), or if the van has no rear windows, then the van will get a flat right side mirror. All other vans will have a convex right side mirror.**	S[1]
	ZY1	**Paint,** solid	S
	XEN	**Tires,** front P235/75R16EL, all-season, blackwall **1 - Requires *G13405 Model. Standard on *G13405 Model with (C5Z) GVWR, 7200 lbs. (3268 kg) and (LU3) Engine, Vortec 4300 V6 MFI. Not available with (Q4B) GVWR, 6200 lbs. (2812 kg) or (LM7) Engine, Vortec 5300 V8 SFI.**	S[1]
	YEN	**Tires,** rear P235/75R16EL, all-season, blackwall **1 - Requires *G13405 Model. Standard on *G13405 Model with (C5Z) GVWR, 7200 lbs. (3268 kg) and (LU3) Engine, Vortec 4300 V6 MFI. Not available with (Q4B) GVWR, 6200 lbs. (2812 kg) or (LM7) Engine, Vortec 5300 V8 SFI.**	S[1]
	ZEN	**Tire,** spare P235/75R16EL, all-season, blackwall, located at rear underbody of vehicle **1 - Requires *G13405 Model. Standard on *G13405 Model with (C5Z) GVWR, 7200 lbs. (3268 kg) and (LU3) Engine, Vortec 4300 V6 MFI. Not available with (Q4B) GVWR, 6200 lbs. (2812 kg) or (LM7) Engine, Vortec 5300 V8 SFI.**	S[1]
	XHH	**Tires,** front LT245/75R16E, all-season, blackwall **1 - Standard on the *G23*05 and *G33*05 Models.**	S[1]
	YHH	**Tires,** rear LT245/75R16E, all-season, blackwall **1 - Standard on the *G23*05 and *G33*05 Models.**	S[1]
	ZHH	**Tire,** spare LT245/75R16E, all-season, blackwall, located at rear underbody of vehicle **1 - Standard on the *G23*05 and *G33*05 Models.**	S[1]
		Wheels, Gray painted, includes Gray center caps and steel spare	S
		Wipers, intermittent, front wet-arm with pulse washers	S
	K68	**Alternator,** 105 amps **1 - Not available with (LLY) Engine, Duramax 6600 Turbo Diesel V8.**	S[1]
		Battery, 600 cold-cranking amps, includes rundown protection and retained accessory power	S
		Brake/transmission shift interlock, automatic transmission	S
		Brakes, 4-wheel antilock, 4-wheel disc	S
	LU3	**Engine,** Vortec 4300 V6 MFI (195 hp [145.4 kW] @ 4600 rpm, 260 lb.-ft. [351.0 N-m] @ 2800 rpm) **1 - Requires *G13405 Model. Reference the Engine/Axle page for availability.**	S[1]

2006 Chevrolet Truck Express Cargo STANDARD EQUIPMENT

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on C*13405, CG23405, CG23705, CG33405 and CG33705 Models.	Work Van 1WT[1]
	LR4	Engine, Vortec 4800 V8 SFI (285 HP [212.6 kW] @ 5200 rpm, 295 lb.-ft. [398.3 N-m] @ 4000 rpm) 1 - Includes external engine oil cooler. Standard on *G23*05 Models and *G33*05 Models. Reference the Engine/Axle page for availability.	S[1]
		Exhaust, aluminized stainless-steel muffler and tailpipe	S
		Frame, full-length box ladder-type	S
	C5Z	GVWR, 7200 lbs. (3266 kg) 1 - Standard on **13405 Models. Reference the Engine/Axle page for availability.	S[1]
	C6P	GVWR, 8600 lbs. (3901 kg) 1 - Standard on *G23*05. Reference the Engine/Axle page for availability.	S[1]
	C6Y	GVWR, 9600 lbs. (4354 kg) 1 - Standard on *G33*05 Model. Reference the Engine/Axle page for availability.	S[1]
		Oil life monitor	S
	GU6	Rear axle, 3.42 ratio 1 - Standard on **13405 Models. Reference the Engine/Axle page for availability.	S[1]
		Steering, power	S
		Suspension, front, independent coil springs and stabilizer bar 1 - Requires *G***05 Models.	S[1]
		Suspension, front, independent torsion bar (computer selected) and stabilizer bar 1 - Requires all-wheel drive Models.	S[1]
		Suspension, rear, hypoid drive axle, with multi-leaf springs	S
		Transfer case, all-wheel drive 1 - Only standard on CH13405.	S[1]
	M30	Transmission, 4-speed automatic, electronically controlled with overdrive, tow/haul mode and internal transmission oil cooler 1 - Required and standard when ordered with (LU3) Engine, Vortec 4300 V6 MFI or (LM7) Engine, Vortec 5300 V8 SFI. Reference the Engine/Axle page for availability.	S[1]
	MT1	Transmission, 4-speed automatic, heavy-duty, electronically controlled with overdrive, tow/haul mode and internal transmission oil cooler 1 - Required and standard when ordered with (LR4) Engine, Vortec 4800 V8 SFI or (LQ4) Engine, Vortec 6000 V8 SFI. Not available with (LLY) Engine, Duramax 6600 Turbo Diesel V8. Reference the Engine/Axle page for availability.	S[1]

2006 Chevrolet Truck Express Cargo EQUIPMENT GROUPS

S = Standard Equipment A = Available – (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

No deletions allowed to Equipment Groups. Additional options may be added; check ordering information section for compatibility.

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on C*13405, CG23405, CG23705, CG33405 and CG33705 Models.	Work Van 1WT[1]
		Standard Equipment	■

2006 Chevrolet Truck Express Cargo PEG STAIRSTEP

S = Standard Equipment A = Available – (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

No deletions allowed to Equipment Groups. Additional options may be added; check ordering information section for compatibility.

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on C*13405, CG23405, CG23705, CG33405 and CG33705 Models.	Work Van 1WT[1]
		Standard Equipment	■

2006 Chevrolet Truck Express Cargo INTERIOR

S = Standard Equipment A = Available – (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on C*13405, CG23405, CG23705, CG33405 and CG33705 Models.	Work Van 1WT[1]
AJ3		**Air bag**, frontal, driver side only (deletes passenger side) 1 - Required with (ZX1) Seat, driver only high-back reclining bucket. - Requires (C6P) GVWR, 8600 lbs. (3901 kg) if ordered with (ZX2) Seats, driver and passenger high-back reclining buckets on *G23405 or *G23705 Models. - Available with (ZX2) Seats, driver and passenger high-back reclining buckets on *G33405 or *G33705 Models. - Not available with (ZX2) Seats, driver and passenger high-back reclining buckets on **13405 Model. - Always use safety belts and proper child restraints, even with air bags. - Children are safer when properly secured in a rear seat. - See the Owner's Manual for more safety information.	A[1]
	AK5	**Air bags**, frontal, driver and right front passenger 1 - Includes passenger side air bag deactivation switch on Models with GVWR, 8600 lbs. (3901 kg) and above. Not available with (ZX1) Seat, driver only high-back reclining bucket or (AJ3) Air bag, frontal, driver side only. Always use safety belts and proper child restraints, even with air bags. Children are safer when properly secured in a rear seat. See the Owner's Manual for more safety information.	S[1]
		Air bag deactivation switch, passenger side 1 - Requires (C6P) GVWR, 8600 lbs. (3901 kg) or (C6Y) GVWR, 9600 lbs. (4354 kg).	S[1]
	C60	**Air conditioning**, front manual	S
C69		**Air conditioning**, rear 1 - Includes (C36) Heater, rear and (KG3) Alternator, 145 amps. Not available with (YF2) Ambulance Package or (PCH) Hotel Shuttle Package.	A[1]
R6G		**Air conditioning delete** 1 - Not available with (YF2) Ambulance Package, (DE5) Mirrors, outside rearview or (DE7) Mirrors, outside rearview.	A[1]
		Assist handle, front passenger	S
K08		**Auxiliary heater**, fuel operated 1 - Requires (LLY) Duramax 6600 Turbo Diesel V8. Included with (V10) Cold Climate Package when ordered with (LLY) Duramax 6600 Turbo Diesel V8.	A[1]
		Console, base, includes open storage bin	S
BA3		**Console**, includes swing-out storage bin	A
ZQ2		**Convenience Package**, power windows and door locks 1 - Includes (A31) Windows, power and (AU3) Door locks, power. Included with (PDN) Power and Light Package, (PRP) Express Access and (PCH) Hotel Shuttle Package.	A[1]
ZQ3		**Convenience Package**, Tilt-Wheel and cruise control 1 - Included with (PCH) Hotel Shuttle Package.	A[1]
		Cupholders, 3, on engine console cover	S
		Defogger, side window	S
C49		**Defogger**, rear-window, electric 1 - Requires (A18) Glass, rear cargo door windows, swing-out and (AJ1) Glass, Solar-Ray deep tinted. Not available with (R6G) Air conditioning delete.	A[1]
AU3		**Door locks**, power, includes Lock-out Protection 1 - Included with (ZQ2) Convenience Package and (PRP) Express Access.	A[1]

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on C*13405, CG23405, CG23705, CG33405 and CG33705 Models.	Work Van 1WT[1]
	B38	**Floor covering**, Black rubberized vinyl full length floor covering 1 - Not available with (YF2) Ambulance Package.	S[1]
B31		**Floor covering**, Black rubberized vinyl, front only (deletes rear covering behind front seat) 1 - Included with (YF2) Ambulance Package.	A[1]
	BG5	**Floor covering delete** 1 - Included and only available with (PCH) Hotel Shuttle Package.	A[1]
R7J		**GM Business Choice Upfit**, commercial customer bin 1 - Not available with (PRP) Express Access. Requires (TBM) Ship-thru. Options will have an invoice note 'Adrian Steel Upfit'.	A[1]
R7Q		**GM Business Choice Upfit**, commercial customer bin 1 - Included with (PRP) Express Access on (T**) stock order types (except TSC order type). Requires (PRP) Express Access and (VCY) Produced in Wentzville and shipped to Trans Design and Mfg. Not available with (E26) Door, swing-out driver side.	A[1]
		Headliner, cloth, over driver and passenger	S
C36		**Heater**, rear, auxiliary 1 - Included with (C69) Air conditioning, rear. Not available with (YF2) Ambulance Package.	A[1]
		Instrumentation, analog, includes speedometer, odometer with trip odometer, fuel level, voltmeter, engine temperature and oil pressure	S
		Key, single, 2-sided	S
AU0		**Keyless entry**, remote, includes 2 transmitters and remote panic button 1 - Requires (ZQ2) Convenience Package.	A[1]
		Lighting, 2 dome lamps, includes defeat switch and door handle-activated switches	S
TR9		**Lighting**, auxiliary, includes reading and underhood lights 1 - Included with (PDN) Power and Light Package or (PCR) Express Access Plus Package. Not available with (YF2) Ambulance Package.	A[1]
UF2		**Lighting, Express Access Enhanced Lighting Package**, includes 3 access panel lights and 2 interior roof mounted lights in cargo area 1 - Requires (PRP) Express Access. Not available on Extended Wheelbase Models.	A[1]
	D31	**Mirror**, inside rearview, manual day/night	S
DF5		**Mirror**, inside rearview, electrochromic (light-sensitive auto dimming), 8-point compass and outside temperature indicator 1 - Requires (ZR7) Chrome Appearance Package and one of the following glass packages: (ZW2) Glass, rear doors, fixed; (ZW3) Glass, rear doors and side cargo doors, fixed; (ZW4) Glass, rear doors, side cargo door and rear passenger side quarter, fixed; (ZW6) Glass, full body window package, fixed.	A[1]
PDN		**Power and Light Package** 1 - Includes (ZQ2) Convenience Package, (TR9) Lighting, auxiliary and (DE5) Mirrors, outside rearview, manual folding, power adjust, heated, Black. (Upgradeable to (DE7) Mirrors, outside rearview, manual folding, power adjust, heated, Black. (DE7) Mirrors, outside rearview, manual folding, power adjust, heated, Black, is not available in the following states: VT, VA, NJ, TX and WA.) Not available with (PRP) Express Access, (YF2) Ambulance Package or (R6G) Air conditioning delete. Package is "No Charge" for certain Fleet Order Types (FNR, FLS, FBC, FRC, or SGO). Autobook will not provide the appropriate package pricing for all other Fleet Order Types. Refer to program 05-36BE for eligibility and pricing. Included with (PCH) Hotel Shuttle Package.	A[1]
		Power outlet, auxiliary, 2 covered, on engine console cover, 12-volt	S

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on C*13405, CG23405, CG23705, CG33405 and CG33705 Models.	Work Van 1WT[1]
ZX1		**Seat**, driver only high-back reclining bucket, adjustable, includes head restraint and vinyl or cloth trim 1 - Deletes passenger side air bag, seat and safety belt. Components cannot be added back later. Not available with (PCH) Hotel Shuttle Package.	A[1]
	ZX2	**Seats**, driver and passenger high-back reclining buckets, adjustable, with head restraints and vinyl or cloth trim	S
	AR7	**Seats**, front vinyl reclining buckets, includes head restraints 1 - Requires (**W) Interior Trim.	S[1]
AS5		**Seats**, front Custom Cloth buckets, includes head restraints and inboard armrests 1 - Requires (**G) Interior Trim.	A[1]
AG1		**Seat adjuster**, power, driver 6-way 1 - Only available with (AS5) Seats, front Custom Cloth buckets.	A[1]
DT4		**Smoker's Package**, includes ashtray and lighter	A
	UXZ	**Sound system**, radio provisions only, includes alarm warning chimes, radio wiring harness, radio antenna and front door speakers (2) 1 - Not available with (PCH) Hotel Shuttle Package.	S[1]
UM7		**Sound system**, ETR AM/FM stereo, includes seek-and-scan and digital clock. Includes front door speakers (2) 1 - Not available with (PCH) Hotel Shuttle Package.	A[1]
U1C		**Sound system**, ETR AM/FM stereo with CD player, includes seek-and-scan, digital clock, TheftLock and random select. Includes front door speakers (2)	A
UL5		**Sound system**, radio provisions delete, deletes antenna, radio wiring harness and speakers. Alarm chimes replaced with base buzzer.	A
		Steering wheel, steel sleeve column, includes theft-deterrent locking feature, Black	S
		Theft-deterrent system, PASSlock	S
		Tow/haul mode selector, IP mounted	S
PNF		**Trim panel delete**, rear side and rear doors	A
		Visors, padded, driver and passenger side	S
	DH6	**Visors**, padded, driver and passenger side with cloth trim and dual vanity mirrors, illuminated on passenger side 1 - Included and only available with (PCH) Hotel Shuttle Package.	A[1]
		Warning tones, headlamp on, key-in-ignition	S
	A31	**Windows**, power 1 - Included and only available with (ZQ2) Convenience Package.	A[1]

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■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on C*13405, CG23405, CG23705, CG33405 and CG33705 Models.	Work Van 1WT[1]
YF2		**Ambulance Package** 1 - Requires *G33705 Model. Requires (GT4) Rear axle, 3.73 ratio and one of the following glass packages: (ZW2) Glass, rear doors, fixed, (ZW3) Glass, rear doors and side cargo doors, fixed, (ZW4) Glass, rear doors, side cargo door, and rear passenger side quarter, fixed or (ZW6) Glass, full body window package, fixed. Includes (LLY) Engine, Duramax 6600 Turbo Diesel V8, (ZR7) Chrome Appearance Package, (U05) Horn, dual-note tone, (G80) Differential, locking, heavy-duty, rear, (KD9) Alternator, Dual 145 Amps, (B31) Floor covering, Black rubberized vinyl, front only (deletes rear covering behind front seat), (ENC) HVAC system, auxiliary provisions, and (UF3) Switch, High Idle. Not available with (C69) Air conditioning, rear, (C36) Heater, rear, auxiliary, (TR9) Lighting, auxiliary. Includes reading and underhood lights, (B3D) School Bus Package, (PRP) Express Access, (PDN) Power and Light Package, (GT5) Rear axle, 4.10 ratio, (A18) Glass, rear cargo door windows, swing-out, (A19) Glass, rear side door and rear door window, swing-out, (DE5) Mirrors, outside rearview or (DE7) Mirrors, outside rearview.	A[1]
	ZW9	**Body**, standard	S
		Bumpers, front and rear, painted Black, includes step-pad 1 - Not available with (ZR7) Chrome Appearance package.	S[1]
V37		**Bumpers**, front and rear, chrome, includes step-pad 1 - Included with (ZR7) Chrome Appearance Package.	A[1]
ZR7		**Chrome Appearance Package** 1 - Includes (V37) Bumpers, front and rear, chrome, includes step-pad and (V22) Grille, chrome, with dual composite halogen headlamps. Included with (PCR) Express Access Plus Package, (YF2) Ambulance Package and (PCH) Hotel Shuttle Package.	A[1]
		Daytime running lamps	S
	E24	**Door**, swing-out passenger side, 60/40 split	S
E26		**Door**, swing-out driver side, 60/40 split 1 - Requires C*13405, CG23405, or CG33405 Models. Glass package must match right side, if equipped. Not available with (PRP) Express Access, (YA2) Door, sliding passenger side or (LLY) Engine, Duramax 6600 Turbo Diesel V8.	A[1]
YA2		**Door**, sliding passenger side 1 - Not available with (E26) Door, swing-out driver side or (PRP) Express Access.	A[1]
		Door beams, steel-side	S
PRP		**Express Access**, includes three remote release side access panels with (AU0) Keyless entry and (ZQ2) Convenience Package, power windows and door locks 1 - Includes (R7Q) GM Business Choice Upfit, commercial customer bin on (T**) stock order types only (except TSC order type). If desired, (R7Q) GM Business Choice Upfit, commercial customer bin must be ordered with all other order types. Requires ***405 Models. Requires (50U) Summit White, (74U) Victory Red or (59U) Silver Birch Metallic. Requires (VCY) Ship Thru, Produced in Wentzville and shipped to Trans Design and Mfg. Not available with (C36) Heater, rear, (C69) Air conditioning, rear, (R6G) Air conditioning delete, (E26) Door, swing-out driver side, (ZW4) Glass, rear doors, (ZW6) Glass, full body window package, (YA2) Door, sliding passenger side, (YF2) Ambulance Package or (PDN) Power and Light Package.	A[1]

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on C*13405, CG23405, CG23705, CG33405 and CG33705 Models.	Work Van 1WT[1]
PCR		**Express Access Plus Package** 1 - Requires (PRP) Express Access. Includes (UF2) Lighting, Express Access Enhanced Lighting Package, (ZR7) Chrome Appearance Package, (P03) Wheels, Gray painted, Includes chrome center caps and steel spare (TR9) Lighting, auxiliary, and (DE5) Mirrors, outside, rearview, foldaway, power, heated, Black. (DE5) is upgradeable to (DE7) Mirrors, outside rearview, manual folding, power adjust, heated, black.	A[1]
		Glass, Solar-Ray light tinted, all windows	S
AJ1		**Glass**, Solar-Ray deep tinted (all windows except light tinted glass on windshield, driver and front passenger) 1 - Requires (ZQ2) Convenience Package and (A19) Glass, rear side door and rear side door window, swing-out or (A18) Glass, rear cargo door windows, swing-out, swing-out. Included with (PCH) Hotel Shuttle Package.	A[1]
ZW2		**Glass**, rear doors, fixed 1 - May upgrade fixed glass to swing-out glass, see (A18) Glass, rear cargo door windows, swing-out. Not available with (PCH) Hotel Shuttle Package.	A[1]
ZW3		**Glass**, rear doors and side cargo doors, fixed 1 - May upgrade fixed glass to swing-out glass, see (A18) Glass, rear cargo door windows, swing-out. Upgrade requires (A19) Glass, rear side door and rear door window, swing-out. Included with (PCH) Hotel Shuttle Package.	A[1]
ZW4		**Glass**, rear doors, side cargo door, and rear passenger side quarter, fixed 1 - May upgrade fixed glass to swing-out glass, see (A18) Glass, rear cargo door windows, swing-out. Upgrade requires (A19) Glass, rear side door and rear door window, swing-out. Not available with (PCH) Hotel Shuttle Package.	A[1]
ZW6		**Glass**, full body window package, fixed 1 - May upgrade fixed glass to swing-out glass, see (A18) Glass, rear cargo door windows, swing-out. Upgrade requires (A19) Glass, rear side door and rear door window, swing-out.	A[1]
A18		**Glass**, rear cargo door windows, swing-out 1 - Requires (ZW2) Glass, rear doors, fixed or (A19) Glass, rear side door and rear door window, swing-out when ordered with (ZW3) Glass, rear doors and side cargo doors, fixed, (ZW4) Glass, rear doors, side cargo door, and rear passenger side quarter, fixed or (ZW6) Glass, full body window package, fixed. Included with (PCH) Hotel Shuttle Package. Not available with (YF2) Ambulance Package.	A[1]
A19		**Glass**, rear side door and rear door window, swing-out 1 - Requires (A18) Glass, rear cargo door windows, swing-out and (ZW3) Glass, rear doors and side cargo doors, fixed, (ZW4) Glass, rear doors, side cargo door, and rear passenger side quarter, fixed or (ZW6) Glass, full body window package, fixed. Not available with (YF2) Ambulance Package. Included with (PCH) Hotel Shuttle Package.	A[1]
		Grille, Black composite, with single rectangular halogen headlamps 1 - Not available with (ZR7) Chrome Appearance Package.	S[1]
	V22	**Grille**, chrome, with dual composite halogen headlamps 1 - Included and only available with (ZR7) Chrome Appearance Package.	A[1]
		Headlamps, single rectangular halogen 1 - Not available with (ZR7) Chrome Appearance Package.	S[1]

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on C*13405, CG23405, CG23705, CG33405 and CG33705 Models.	Work Van 1WT[1]
PCH		**Hotel Shuttle Package** 1 - Requires *G23*05 or *G33*05 Models. Requires (E24) Door, swing-out passenger side. Includes (LQ4) Engine, Vortec 6000 V8 SFI, (B31) Floor covering, Black rubberized vinyl, front only, (DH6) Visors, padded, (KG3) Alternator, 145 amps, (ZQ2) Convenience Package, (ZQ3) Convenience Package, (VXT) Incomplete vehicle certification, (ZW3) Glass, rear doors and side cargo doors, fixed (upgradeable to (ZW6) Glass, full body window package), (AJ1) Glass, Solar-Ray deep tinted, (A18) Glass, rear cargo door windows, swing-out, (A19) Glass, rear side door and rear door window, swing-out, (PDN) Power and Light Package, (ZR7) Chrome Appearance Package, (P03) Wheels, Gray painted and (B46) Trim, rear body-colored halo (Note that (B46) is not available with (41U) Black, (63U) Sport Red Metallic or (74U) Victory Red. These colors will receive a Black halo). Package also includes SEO option (5N6) Provisions for Shuttle Bus Chassis. Not available with (PRP) Express Access, (R6G) Air conditioning delete, (C69) Air conditioning, rear, (C36) Heater, rear, auxiliary, (B3D) School Bus Package, (YF2) Ambulance Package, (E26) Door, swing-out driver side, (YA2) Door, sliding passenger side, (ZW2) Glass, rear doors, fixed, (ZW4) Glass, rear doors, side cargo door, and rear passenger side quarter, fixed, (ZX1) Seat, driver only high-back reclining bucket, (UM7) Sound system, ETR AM/FM stereo or (UXZ) Sound system, radio provisions only.	A[1]
U05		Horn, dual-note tone 1 - Included with (B3D) School Bus Package.	A[1]
	VK3	License plate kit, front	S
	DE2	Mirrors, outside rearview, manual folding, Black 1 - If the van is an extended Model (*G**7**), or if the van has no rear windows, then the van will get a flat right side mirror. All other vans will have a convex right side mirror.	S[1]
DE5		Mirrors, outside rearview, manual folding, power adjust, heated, Black 1 - Requires (ZQ2) Convenience Package or (PDN) Power and Light Package. Not available with (R6G) Air conditioning delete or (YF2) Ambulance Package. If the van is an extended Model (*G**7**), or if the van has no rear windows, then the van will get a flat right side mirror. All other vans will have a convex right side mirror.	A[1]
DE7		Mirrors, outside rearview, manual folding, power adjust, heated, Black, includes turn signal indicators 1 - Requires (ZQ2) Convenience Package or (PDN) Power and Light Package. Not available with (R6G) Air conditioning delete or (YF2) Ambulance Package. If the van is an extended model (*G**7**), or if the van has no rear windows, then the van will get a flat right side mirror. All other vans will have a convex right side mirror.	A[1]
	ZY1	Paint, solid	S
B3D		School Bus Package, chassis equipment with brake warning indicator 1 - Requires *G33405 or *G33705 Models. Includes (U05) Horn, dual-note and (VXT) Incomplete vehicle certification. Not available with (DE5) Mirrors, outside rearview, (DE7) Mirrors, outside rearview, (PCR) Express Access Plus Package, (PDN) Power and Light Package, (YF2) Ambulance Package or (PCH) Hotel Shuttle Package.	A[1]
ZX9		Tire, spare delete 1 - Jack is not included.	A[1]
	XEN	Tires, front P235/75R16EL, all-season, blackwall 1 - Requires *G13405 Model. Standard on *G13405 Model with (C5Z) GVWR, 7200 lbs. (3268 kg) and (LU3) Engine, Vortec 4300 V6 MFI. Not available with (Q4B) GVWR, 6200 lbs. (2812 kg) or (LM7) Engine, Vortec 5300 V8 SFI.	S[1]
	YEN	Tires, rear P235/75R16EL, all-season, blackwall 1 - Requires *G13405 Model. Standard on *G13405 Model with (C5Z) GVWR, 7200 lbs. (3268 kg) and (LU3) Engine, Vortec 4300 V6 MFI. Not available with (Q4B) GVWR, 6200 lbs. (2812 kg) or (LM7) Engine, Vortec 5300 V8 SFI.	S[1]
	ZEN	Tire, spare P235/75R16EL, all-season, blackwall, located at rear underbody of vehicle 1 - Requires *G13405 Model. Standard on *G13405 Model with (C5Z) GVWR, 7200 lbs. (3268 kg) and (LU3) Engine, Vortec 4300 V6 MFI. Not available with (Q4B) GVWR, 6200 lbs. (2812 kg) or (LM7) Engine, Vortec 5300 V8 SFI.	S[1]

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on C*13405, CG23405, CG23705, CG33405 and CG33705 Models.	Work Van 1WT[1]
	XNK	Tires, front P245/75R16, all-season, blackwall 1 - Requires **13405 Models. Standard on *H13405 Model. Included and only available with (LM7) Engine, Vortec 5300 V8 SFI on *G13405 Model.	A[1]
	YNK	Tires, rear P245/75R16, all-season, blackwall 1 - Requires **13405 Models. Standard on *H13405 Model. Included and only available with (LM7) Engine, Vortec 5300 V8 SFI on *G13405 Model.	A[1]
	ZNK	Tire, spare P245/75R16, all-season, blackwall 1 - Requires **13405 Models. Standard on *H13405 Model. Included and only available with (LM7) Engine, Vortec 5300 V8 SFI on *G13405 Model. Not available with (ZX9) Spare tire delete.	A[1]
	XNF	Tires, front P235/75R16, all-season, blackwall 1 - Requires *G13405 Model. Included and only available with (Q4B) GVWR, 6200 lbs. (2812 kg).	A[1]
	YNF	Tires, rear P235/75R16, all-season, blackwall 1 - Requires *G13405 Model. Included and only available with (Q4B) GVWR, 6200 lbs. (2812 kg).	A[1]
	ZNF	Tire, spare P235/75R16, all-season, blackwall 1 - Requires *G13405 Model. Included and only available with (Q4B) GVWR, 6200 lbs. (2812 kg). Not available with (ZX9) Spare tire delete.	A[1]
XHF		Tires, front LT225/75R16E, all-season, blackwall 1 - Requires *G23405 or *G23705 Models.	A[1]
	YHF	Tires, rear LT225/75R16E, all-season, blackwall 1 - Requires *G23405 or *G23705 Model. Requires (XHF) Tires, front LT225/75R16E, all-season, blackwall.	A[1]
	ZHF	Tire, spare LT225/75R16E, all-season, blackwall, located at rear underbody of vehicle 1 - Requires *G23405 or *G23705 Model. Requires (XHF) Tires, front LT225/75R16E, all-season, blackwall and (YHF) Tires, rear LT225/75R16E, all-season, blackwall. Not available with (ZX9) Spare tire delete.	A[1]
	XHH	Tires, front LT245/75R16E, all-season, blackwall 1 - Standard on the *G23*05 and *G33*05 Models.	S[1]
	YHH	Tires, rear LT245/75R16E, all-season, blackwall 1 - Standard on the *G23*05 and *G33*05 Models.	S[1]
	ZHH	Tire, spare LT245/75R16E, all-season, blackwall, located at rear underbody of vehicle 1 - Standard on the *G23*05 and *G33*05 Models.	S[1]
B46		Trim, rear body-colored halo (replaces standard Black panel - The panel is located above rear tail lamps) 1 - Not available with (41U) Black, (74U) Victory Red, (63U) Sport Red Metallic or (TGK) SEO solid paint. These colors will receive a Black halo. Included with (PCH) Hotel Shuttle Package.	A[1]
		Wheels, Gray painted, includes Gray center caps and steel spare	S
P03		Wheels, Gray painted, includes chrome center caps and steel spare 1 - Included with (PCR) Express Access Plus Package or (PCH) Hotel Shuttle Package.	A[1]
40P		Wheel finish, painted White. White painted wheels in lieu of standard Gray painted wheels. Includes spare wheel. 1 - Not available on C*13405 Models or with (P03) Wheels, chrome center caps.	A[1]
		Wipers, intermittent, front wet-arm with pulse washers	S

S = Standard Equipment A = Available – (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on C*13405, CG23405, CG23705, CG33405 and CG33705 Models.	Work Van 1WT[1]
	K68	**Alternator,** 105 amps 1 - Not available with (LLY) Engine, Duramax 6600 Turbo Diesel V8.	S[1]
KG3		**Alternator,** 145 amps 1 - Included with (C69) Air conditioning, rear, (PCH) Hotel Shuttle Package, or (LLY) Engine, Duramax 6600 Turbo Diesel V8 without (YF2) Ambulance Package.	A[1]
	KD9	**Alternators,** dual, 145 amps each 1 - Included and only available with (YF2) Ambulance Package.	A[1]
KL5		**Alternative fuel conversion-ready engine,** includes internal modifications for operation with natural or propane gas 1 - Requires (LQ4) Engine, Vortec 6000 V8 SFI.	A[1]
		Battery, 600 cold-cranking amps, includes rundown protection and retained accessory power	S
UA1		**Battery,** heavy-duty, 800 cold-cranking amps, includes rundown protection and retained accessory power 1 - Not available with (LLY) Engine, Duramax 6600 Turbo Diesel V8.	A[1]
		Brake/transmission shift interlock, automatic transmission	S
		Brakes, 4-wheel antilock, 4-wheel disc	S
V10		**Cold Climate Package,** includes engine block heater 1 - Includes (K08) Auxiliary heater, fuel operated when ordered with (LLY) Duramax 6600 Turbo Diesel V8.	A[1]
G80		**Differential,** locking, heavy-duty, rear 1 - Included with (YF2) Ambulance Package.	A[1]
FE9		**Emissions,** Federal requirements	A
YF5		**Emissions,** California state requirements	A
NE1		**Emissions,** Maine, Massachusetts, New York or Vermont state requirements	A
NC7		**Emissions override,** Federal (for vehicles ordered by dealers in Federal emission states with California, New York, Vermont, Massachusetts or Maine emissions; may also be used by dealers in states of California, New York, Vermont, Massachusetts or Maine to order different state-specific emissions) 1 - Requires (YF5) Emissions, California state requirements or (NE1) Emissions, New York, Vermont, Massachusetts or Maine state requirements.	A[1]
NB8		**Emissions override,** California, Massachusetts or New York (for vehicles ordered by dealers in states of California, Massachusetts or New York with Federal emissions) 1 - Requires (FE9) Emissions, Federal requirements.	A[1]

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on C*13405, CG23405, CG23705, CG33405 and CG33705 Models.	Work Van 1WT[1]
VCL		**Emissions Certification,** CFF (Clean Fuel Fleet) LEV (Low Emission Vehicle). Option (VCL) should ONLY be ordered to receive the CFF LEV certification. If (VCL) is not ordered, the vehicle will be produced with your normally selected emission system and may not be CFF LEV certified. Products ordered with the (VCL) option may not be certified to California emission requirements. Therefore, they may not be legal for registration in California, New York, Maine, Massachusetts and Vermont. Option (YF5) should be ordered for all vehicles ordered in California. Option (NE1) should be ordered for all vehicles ordered in Maine or Vermont.	A
	LU3	**Engine,** Vortec 4300 V6 MFI (195 hp [145.4 kW] @ 4600 rpm, 260 lb.-ft. [351.0 N-m] @ 2800 rpm) 1 - Requires *G13405 Model. Reference the Engine/Axle page for availability.	S[1]
	LR4	**Engine,** Vortec 4800 V8 SFI (285 HP [212.6 kW] @ 5200 rpm, 295 lb.-ft. [398.3 N-m] @ 4000 rpm) 1 - Includes external engine oil cooler. Standard on *G23*05 Models and *G33*05 Models. Reference the Engine/Axle page for availability.	S[1]
LM7		**Engine,** Vortec 5300 V8 SFI (295 HP [220 kW] @ 5200 rpm, 335 lb.-ft. [452.25 N-m] @ 4000 rpm) 1 - Available on *G13405 Model when ordered with (C5Z) GVWR, 7200 lbs (3266 kg). Standard on *H*3405 Models. Reference the Engine/Axle page for availability.	A[1]
LQ4		**Engine,** Vortec 6000 V8 SFI (300 HP [223.8 kW] @ 4400 rpm, 360 lb.-ft. [486.6 N-m] @ 4000 rpm) 1 - Requires *G23*05 or *G33*05 Models. Includes external engine oil cooler. Included with (PCH) Hotel Shuttle Package. Reference the Engine/Axle page for availability.	A[1]
LLY		**Engine,** Duramax 6600 Turbo Diesel V8 (250 HP [186.4 kW] @ 3200 rpm, 460 lb.-ft [621 N-m] @ 1600 rpm) 1 - REGULAR PRODUCTION VOLUMES ARE EXPECTED IN THE SEPTEMBER TIMEFRAME. Includes external engine oil cooler. Requires *G23*05 or *G33*05 Models. Requires (C6P) GVWR, 8600 lbs. (3901 kg) or (C6Y) GVWR, 9600 lbs. (4354 kg). Includes (V14) Transmission oil cooler, external and (MN8) Transmission, 4-speed automatic, heavy-duty. Included with (YF2) Ambulance Package. Not available with (E26) Door, swing-out driver side, (MT1) Transmission, 4-speed automatic, heavy-duty, (UA1) Battery,heavy-duty, 800 cold-cranking amps, (K68) Alternator, 105 amps or (GT5) Rear axle, 4.10 ratio. Particulate filter not available at SOP, available 2007I. Reference the Engine/Axle page for availability.	A[1]
		Exhaust, aluminized stainless-steel muffler and tailpipe	S
		Frame, full-length box ladder-type	S
Q4B		**GVWR,** 6200 lbs. (2812 kg) 1 - Requires *G13405 Model. Reference the Engine/Axle page for availability.	A[1]
	C5Z	**GVWR,** 7200 lbs. (3266 kg) 1 - Standard on **13405 Models. Reference the Engine/Axle page for availability.	S[1]
	C6P	**GVWR,** 8600 lbs. (3901 kg) 1 - Standard on *G23*05. Reference the Engine/Axle page for availability.	S[1]
	C6Y	**GVWR,** 9600 lbs. (4354 kg) 1 - Standard on *G33*05 Model. Reference the Engine/Axle page for availability.	S[1]
	ENC	**HVAC system,** auxiliary provisions 1 - Included with (YF2) Ambulance Package.	A[1]
	VXT	**Incomplete vehicle certification** 1 - Included and only available with (B3D) School Bus Package or (PCH) Hotel Shuttle Package.	A[1]
		Oil life monitor	S
	GU6	**Rear axle,** 3.42 ratio 1 - Standard on **13405 Models. Reference the Engine/Axle page for availability.	S[1]

2006 Chevrolet Truck Express Cargo MECHANICAL

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on C*13405, CG23405, CG23705, CG33405 and CG33705 Models.	Work Van 1WT[1]
GT4		Rear axle, 3.73 ratio 1 - Available on **13405 when ordered with (LM7) Engine, Vortec 5300 V8 SFI. Standard on all *G23*05 and *G33*05 Models. Reference the Engine/Axle page for availability.	A[1]
GT5		Rear axle, 4.10 ratio 1 - Available with (LR4) Engine, Vortec 4800 V8 SFI and (LQ4) Engine, Vortec 6000 V8 SFI. Not available with (LLY) Engine, Duramax 6600 Turbo Diesel V8. Reference the Engine/Axle page for availability.	A[1]
		Steering, power	S
		Suspension, front, independent coil springs and stabilizer bar 1 - Requires *G***05 Models.	S[1]
		Suspension, front, independent torsion bar (computer selected) and stabilizer bar 1 - Requires all-wheel drive Models.	S[1]
		Suspension, rear, hypoid drive axle, with multi-leaf springs	S
UF3		Switch, High Idle 1 - Requires (LLY) Engine, Duramax 6600 Turbo Diesel V8. Included with (YF2) Ambulance Package.	A[1]
Z82		Trailering equipment, heavy-duty, includes trailering hitch platform and 7-lead wiring harness 1 - Includes (UY7) Trailer wiring, 7-lead harness.	A[1]
UY7		Trailer wiring, 7-lead harness 1 - Included with (Z82) Trailering equipment, heavy-duty.	A[1]
		Transfer case, all-wheel drive 1 - Only standard on CH13405.	S[1]
	M30	Transmission, 4-speed automatic, electronically controlled with overdrive, tow/haul mode and internal transmission oil cooler 1 - Required and standard when ordered with (LU3) Engine, Vortec 4300 V6 MFI or (LM7) Engine, Vortec 5300 V8 SFI. Reference the Engine/Axle page for availability.	S[1]
	MT1	Transmission, 4-speed automatic, heavy-duty, electronically controlled with overdrive, tow/haul mode and internal transmission oil cooler 1 - Required and standard when ordered with (LR4) Engine, Vortec 4800 V8 SFI or (LQ4) Engine, Vortec 6000 V8 SFI. Not available with (LLY) Engine, Duramax 6600 Turbo Diesel V8. Reference the Engine/Axle page for availability.	S[1]
	MN8	Transmission, 4-speed automatic, heavy-duty, electronically controlled with overdrive, tow/haul mode and internal transmission oil cooler 1 - Included and only available with (LLY) Engine, Duramax 6600 Turbo Diesel V8. Reference the Engine/Axle page for availability.	A[1]
V14		Transmission oil cooler, external 1 - Available when ordered with (LR4) Engine, Vortec 4800 V8 SFI or (LQ4) Engine, Vortec 6000 V8 SFI. Included with (LLY) Engine, Duramax 6600 Turbo Diesel V8.	A[1]

2006 Chevrolet Truck Express Cargo ENGINE/AXLE

S = Standard Equipment A = Available – (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

		Transmissions			Axles			GVWR lbs. (kg)			
Model	Engine	M30 4-Speed Automatic	MT1 4-Speed Automatic HD	MN8 4-Speed Automatic	GU5 3.42	GT4 3.73	GT5 4.10	Q4B 6200 (2812)	C5Z 7200 (3265)	C6P 8600 (3901)	C6Y 9600 (4354)
1500											
CG13405	LU3 Vortec 4300 V6 MFI	S	–	–	S	–	–	A	S	–	–
	LM7 Vortec 5300 V8 SFI	S	–	–	S	A	–	–	S	–	–
CH13405	LM7 Vortec 5300 V8 SFI	S	–	–	S	A	–	–	S	–	–
2500											
CG23405	LR4 Vortec 4800 V8 SFI	–	S	–	–	S	A	–	–	S	–
	LQ4 Vortec 6000 V8 SFI	–	S	–	–	S	A	–	–	S	–
	LLY Duramax 6600 Turbo Diesel V8	–	–	S	–	S	–	–	–	S	–
CG23705	LR4 Vortec 4800 V8 SFI	–	S	–	–	S	A	–	–	S	–
	LQ4 Vortec 6000 V8 SFI	–	S	–	–	S	A	–	–	S	–
	LLY Duramax 6600 Turbo Diesel V8	–	–	S	–	S	–	–	–	S	–
3500											
CG33405	LR4 Vortec 4800 V8 SFI	–	S	–	–	S	A	–	–	–	S
	LQ4 Vortec 6000 V8 SFI	–	S	–	–	S	A	–	–	–	S
	LLY Duramax 6600 Turbo Diesel V8	–	–	S	–	S	–	–	–	–	S

2006 Chevrolet Truck Express Cargo ENGINE/AXLE

		Transmissions			Axles			GVWR lbs. (kg)			
Model	Engine	M30 4-Speed Automatic	MT1 4-Speed Automatic HD	MN8 4-Speed Automatic	GU6 3.42	GT4 3.73	GT5 4.10	Q4B 6200 (2812)	C5Z 7200 (3266)	C6P 8600 (3901)	C6Y 9600 (4354)
CG33705	LR4 Vortec 4800 V8 SFI	--	S	--	--	S	A	--	--	--	S
	LQ4 Vortec 6000 V8 SFI	--	S	--	--	S	A	--	--	--	S
	LLY Duramax 6600 Turbo Diesel V8	--	--	S	--	S	--	--	--	--	S

2006 Chevrolet Truck Express Cargo COLOR AND TRIM - SOLID PAINT ZY1

S = Standard Equipment A = Available -- (dashes) = Not Available
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*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Decor Level	Seat Type	Seat Code	Seat Trim	Interior	
				Neutral	Medium Dark Pewter
Work Van	Reclining high-back buckets	AR7	Custom Vinyl	52W	93W
Work Van	Reclining high-back buckets w/inboard armrests	AS5	Custom Cloth	52G	93G

Exterior Solid Paint	Color Code	Touch Up Paint Number	Interior	
			Neutral	Medium Dark Pewter
Sandstone Metallic	15U	WA-929L	A	--
NEW! Graystone Metallic	16U	WA-213M	--	A
Dark Blue Metallic	25U	WA-722J	A	A
Black[1]	41U	WA-8555	A	A
Dark Green Metallic	47U	WA-9539	A	A
Summit White	50U	WA-8624	A	A
Silver Birch Metallic	59U	WA-926L	--	A
NEW! Sport Red Metallic[1]	63U	WA-817K	A	A
Victory Red[1]	74U	WA-9260	A	A

Above interior trim combinations are the only combinations allowed.
1 - Not available with (B46) Trim, rear body-colored halo.

2006 Chevrolet Truck Express Cargo COLOR AND TRIM - SEO SOLID PAINT

S = Standard Equipment A = Available – (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Decor Level	Seat Type	Seat Code	Seat Trim	Interior	
				Neutral	Medium Dark Pewter
Base	Reclining high-back buckets	AR7[1]	Custom Vinyl	52W	93W
Base	Reclining high-back buckets w/inboard armrests	AS5[2]	Custom Cloth	52G	93G

Exterior Solid Paint	Color Code	Touch Up Paint Number	Interior	
			Neutral	Medium Dark Pewter
Yellow	none	WA-5456	A	A
Green	none	WA-7927	A	A
Green	none	WA-7941	A	A
Silver Metallic	none	WA-8867	A	A
Green, Woodland	9V5	WA-9015	A	A
Doeskin Tan	9V9	WA-9403	A	A
Tangier Orange	9W4	WA-9417	A	A
Orange	none	WA-9419	A	A
Light Stellar Blue	none	WA-146B	A	A
Yellow	none	WA-215D	A	A
Wheatland Yellow	9W3	WA-253A	A	A
Yellow	none	WA-259L	A	A
Madrid Red	none	WA-341D	A	A
Yellow	none	WA-478G	A	A
Galaxy Silver Metallic	none	WA-519F	A	A
Bronzemist	none	WA-529F	A	A
NEW! Yellow	none	WA-9414	A	A

NOTE: Exterior SEO solid paints are not available with (B46) Trim, rear body-colored halo.
1 - Standard on Base with 1SA.
2 - Available on Base with 1SA.

2006 Chevrolet Truck Express Cargo SEO OPTIONS/SHIP THRU CODES

S = Standard Equipment A = Available – (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on C*13405, CG23405, CG23705, CG33405 and CG33705 Models.	Work Van 1WT[1]
		Interior	
5X8		**Key, side cargo and rear door (MSRP = $40.00)** A unique key for side and rear cargo doors, separate from driver area ignition and door key. 1 - Not available with RPO (E26) Door, swing-out driver side.	A[1]
5P9		**Panel Trim, side and rear cargo doors (MSRP = $150.00)** Commercial upfitter option. Base level passenger van interior trim panels for the side and rear cargo doors of a 2500 and 3500 cargo van. Panels are shipped loose for installation by the upfitter. 1 - Requires Models G23405, G23705, G33405 or G33705, Fleet, Federal Government or Upfitter order type, RPO (E24) Doors, swing-out passenger side, RPO (ZW3) Glass, rear doors and side cargo doors, fixed and an order for shipment to an upfitter. Not available with RPO (E26) Door, swing-out driver side, RPO (YA2) Door, sliding passenger side or SEO (5L3) Panel trim, sides, side and rear cargo door.	A[1]
5L3		**Panel Trim, sides, side and rear cargo door (MSRP = $449.00)** Base level passenger van interior panels and trim on the sides, side cargo doors and rear doors of a cargo van. Includes full floor covering 1 - Requires RPO (A19) Glass, rear side door and rear door window, swing-out, RPO (ZW6) Glass, complete body window package and RPO (B38) Floor covering, Black rubberized vinyl full length. Not available with Models G/H13405, RPO (C36) Heater, rear, RPO (C69) Air conditioning, rear, RPO (B31) Floor covering, Black rubberized vinyl front, RPO (E26) Door, swing-out driver side, RPO (YA2) Door, sliding passenger side or RPO (PCH) Hotel Shuttle Package.	A[1]
9R0		**Sound system, ETR AM/FM stereo with cassette (MSRP = $150.00)** AM/FM radio with cassette and digital clock, no CD player. 1 - Requires a Fleet or Federal Government sales order. Not available with RPO (PCH) Hotel Shuttle Package.	A[1]
9J6		**Steering column, tilt (MSRP = $145.00)** Tilt-steering column without cruise control. 1 - Not available with RPO (ZQ3) Convenience Package.	A[1]
5C5		**Vinyl Sun Visors (MSRP = No Charge)** Provides vinyl sun visors when deluxe cloth bucket seats are ordered. Replaces cloth sun visors. 1 - Requires a Fleet or Government sales order and RPO (AS5) Seats, front Custom Cloth buckets. Not available with RPO (DH6) Visor, padded, driver and passenger side with cloth trim and dual vanity mirrors or RPO (PCH) Hotel Shuttle Package.	A[1]
		Exterior	
8S3		**Backup alarm (MSRP = $95.00)** Rear frame mounted back-up alarm, 97 decibels. 1 - Requires Models G13405, G23405 or G33405. On the G33405 Model, requires RPO (LQ4) Engine, Vortec 6000 V8 SFI (300 HP [223.8 kW] @ 4400 rpm, 360 lb.-ft. [486.6 N-m] @ 4000 rpm). Not available with RPO (LLY) Engine, Duramax 6600 Turbo Diesel V8.	A[1]
5Z5		**Hubcap delete (MSRP = -$10.00 Credit)** Deletes hub caps from standard wheels. 1 - Not available with RPO (P03) Wheels, chrome center caps.	A[1]
8X1		**Label, fasten safety belts (MSRP = $2.00)** "Fasten Safety Belts" reminder label on side door window glass.	A

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on C*13405, CG23405, CG23705, CG33405 and CG33705 Models.	Work Van 1WT[1]
9F2		**Mirrors, outside rearview delete (MSRP = -$20.00 Credit)** Deletes the standard outside driver and passenger rear view mirrors. Includes incomplete vehicle documents. **1 - Requires Models G23405, G33405 or G33705. Not available with RPO (PDN) Power and Light Package, (PCR) Express Access Plus Package or RPO (B3D) School Bus Package.**	A[1]
9V9		**Paints, solid (MSRP = No Charge),** Doeskin Tan **1 - Requires SEO (TGK) Special Paint, one color. Not available with RPO (B46) Trim, rear body-colored halo and (PRP) Express Access.**	A[1]
9W4		**Paints, solid (MSRP = No Charge),** Tangier Orange **1 - Requires SEO (TGK) Special Paint, one color. Not available with RPO (B46) Trim, rear body-colored halo and (PRP) Express Access.**	A[1]
9W3		**Paints, solid (MSRP = No Charge),** Wheatland Yellow **1 - Requires SEO (TGK) Special Paint, one color. Not available with RPO (B46) Trim, rear body-colored halo and (PRP) Express Access.**	A[1]
9V5		**Paints, solid (MSRP = No Charge),** Woodland Green **1 - Requires SEO (TGK) Special Paint, one color. Not available with RPO (B46) Trim, rear body-colored halo and (PRP) Express Access.**	A[1]
5G4		**Provision for cab roof-mounted lamp (MSRP = $103.00)** Provides wiring in the roof over the front driver cabin area and an overhead mounted switch for use by a body upfitter to install and connect a roof mounted warning or emergency lamp. Limited to one lamp only. Operating amperage is 21 amps. Access instructions are furnished. **1 - Requires Models G13405, G23405 or G33405, and RPO (AU3) Door locks, power or RPO (ZQ2) Convenience Package, RPO (DE2) Mirrors, outside rearview, foldaway, manual, Black on Model G13405 or RPO (DE2) Mirrors, outside rearview, foldaway, manual, Black or SEO (9F2) Mirrors, Outside rearview mirror delete on Models G23405 or G33405. Not available with RPO (AG1) Seat adjuster, power drivers seat, RPO (C36) Heater, rear, RPO (C69) Air conditioning, rear, RPO (C49) Defogger, rear window electric, RPO (E26) Door, swing-out driver side, RPO (TR9) Lighting, auxiliary, RPO (PDN) Power and Light Package, RPO (PRP) Express Access, RPO (PCH) Hotel Shuttle Package or RPO (DH6) Illuminated sunshade mirrors.**	A[1]
TGK		**Solid Paint** SEO solid paint, one color **1 - Required with any SEO paint selection. Not available with RPO (B46) Trim, rear body-colored halo and (PRP) Express Access. May require extended lead time.**	A[1]
2HI		**Tires, front Goodyear G159 highway tread (MSRP = W/A)** Provides LT225/75R16 (E) 10 ply front tires. **1 - Requires RPO (C6P) GVWR 8600 lbs. (3901 kg.), SEO (3HI) Tires, rear Goodyear G159 and Models CG23405 or CG23705. Also requires SEO (4HI) Spare tire or RPO (ZX9) Spare tire delete. Not available with RPO (YF5) Emissions, California state requirements, RPO (NE1) Emissions, Massachusetts or Maine state requirements or with RPO (LLY) Engine, Duramax 6600 Turbo Diesel V8.**	A[1]
3HI		**Tires, rear Goodyear G159 highway tread (MSRP = W/A)** Provides LT225/75R16 (E) 10 ply rear tires. **1 - Requires SEO (2HI) Tires, front Goodyear G159 and Models CG23405 or CG23705. Also requires SEO (4HI) Spare tire or RPO (ZX9) Spare tire delete. Not available with RPO (YF5) Emissions, California state requirements, RPO (NE1) Emissions, Massachusetts or Maine state requirements or with RPO (LLY) Engine, Duramax 6600 Turbo Diesel V8.**	A[1]

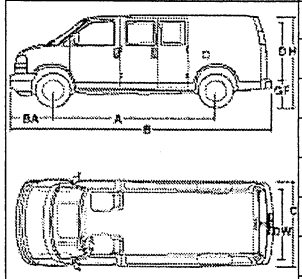
Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on C*13405, CG23405, CG23705, CG33405 and CG33705 Models.	Work Van 1WT[1]
4HI		**Tires, spare Goodyear G159 highway tread (MSRP = W/A)** Provides LT225/75R16 (E) 10 ply spare tires. **1 - Requires SEO (2HI) Tires, front Goodyear and SEO (3HI) rear Goodyear G159 on Models CG23405 or CG23705. Not available with RPO (LLY) Engine, Duramax 6600 Turbo Diesel V8.**	A[1]
Q8C		**Tire valve stem caps, air thru (MSRP = $6.00)** Air through valve caps on the tire air valves. **1 - Not Available on Models G/H13405.**	A[1]
8R3		**Tire valve stems, brass (MSRP = $20.00)** Brass metal valve stem in lieu of standard. Also included on spare when furnished. **1 - Not Available on Models G/H13405.**	A[1]
5G0		**Wheels, painted Black (MSRP = $25.00)** Black painted wheels in lieu of standard Gray painted wheels. Includes spare wheel. **1 - Not available with RPO (P03) Wheels, chrome center caps or with Models G/H13405.**	A[1]
		Mechanical	
5C4		**Front Spring, High Rate Upgrade (MSRP = $40.00)** Provides computer selected high rate front springs. Intended for a upfit that requires higher center of gravity loads that are located at or near the front axle. Provides increased front spring capacity but will not change the front GAWR rating **1 - Requires Models G33405 or G33705. Not available with RPO (B3D) School Bus Package or (PCH) Hotel Shuttle Package.**	A[1]
8E1		**Fuel, additional 3 gallons (MSRP = $10.00)** 3 gallons of fuel in addition to normal assembly plant fill.	A
7T6		**Fuel fitting, for fuel line take-off (MSRP = $113.00)** A fuel tank with a fuel take-off fitting that a body builder may utilize to attach an auxiliary engine fueling device. **1 - Requires Model *G23405, *G33405, or *G33705. Not available with RPO (E26) Door, swing-out driver side or with RPO (LLY) Engine, Duramax 6600 Turbo Diesel V8.**	A[1]
V14		**Transmission oil cooler, external (MSRP = $ 95.00)** **1 - Requires Models G23405 and G23705 with RPO (LR4) Vortec 4800 V8 SFI engine.**	A[1]
		Ship Thru Codes	
TBM		**Ship Thru for all Models (MSRP = $110.00)** Produced in Wentzville and shipped to Adrian Steel	A
TBQ		**Ship Thru for all Models (MSRP = $350.00)** Produced in Wentzville and shipped to Ft. Wayne Fleet Equipment	A
TCC		**Ship Thru for all Models (MSRP = $640.00)** Produced in Wentzville and shipped to Quigley	A
VAD		**Ship Thru for all Models (MSRP = $60.00)** Produced in Wentzville and shipped to Crown/Masterack	A
VAP		**Ship Thru for all Models (MSRP = $220.00)** Produced in Wentzville and shipped to Knapheide Truck Equipment	A
VAR		**Ship Thru for all Models (MSRP = $385.00)** Produced in Wentzville and shipped to Midway	A
VCP		**Ship Thru for all Models (MSRP = $185.00)** Produced in Wentzville and shipped to OEM Systems.	A

2006 Chevrolet Truck Express Cargo SEO OPTIONS/SHIP THRU CODES

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on C*13405, CG23405, CG23705, CG33405 and CG33705 Models.	Work Van 1WT[1]
	VCY	**Ship Thru for all Models (MSRP = No Charge)** Produced in Wentzville and shipped to Trans Design & Mfg 1 - Forced with RPO (PRP) Express Access. Includes three remote release side access panels with (AU0) Keyless entry, remote and (ZQ2) Convenience Package.	A[1]
VEQ		**Ship Thru for Models G13405, G23405, G23705, G33405, G33705, H13405 (MSRP = W/A)** Produced in Wentzville Assembly and shipped to Kranz Automotive Body Co	A

2006 Chevrolet Truck Express Cargo DIMENSIONS

All dimensions in inches (mm) unless otherwise stated.



	Specifications	CG13405 G1500 Regular Wheelbase RWD	CH13405 G1500 Regular Wheelbase AWD	CG23405 G2500 Regular Wheelbase RWD	CG23705 G2500 Extended Wheelbase RWD	CG33405 G3500 Regular Wheelbase RWD	CG33705 G3500 Extended Wheelbase RWD
A	Wheelbase	135.00 (3429)	135.00 (3429)	135.00 (3429)	155.00 (3937)	135.00 (3429)	155.00 (3937)
B	Overall length	224.10 (5692)	224.10 (5692)	224.10 (5692)	244.10 (6200)	224.10 (5692)	244.10 (6200)
C	Body width	79.40 (2017)	79.40 (2017)	79.40 (2017)	79.40 (2017)	79.40 (2017)	79.40 (2017)
D	Overall height	81.60 (2073)	81.60 (2073)	81.60 (2073)	82.00 (2083)	81.60 (2073)	82.00 (2083)
	Head room, front	40.20 (1021)	40.20 (1021)	40.20 (1021)	40.20 (1021)	40.20 (1021)	40.20 (1021)
	Shoulder room, front	68.80 (1748)	68.80 (1748)	68.80 (1748)	68.80 (1748)	68.80 (1748)	68.80 (1748)
	Hip room, front	65.50 (1664)	65.50 (1664)	65.50 (1664)	65.50 (1664)	65.50 (1664)	65.50 (1664)
	Leg room, front	41.30 (1049)	41.30 (1049)	41.30 (1049)	41.30 (1049)	41.30 (1049)	41.30 (1049)
BA	Front bumper to axle	39.70 (1008)	39.70 (1008)	39.70 (1008)	39.70 (1008)	39.70 (1008)	39.70 (1008)
	Opening height, side door	47.90 (1217)	47.90 (1217)	47.90 (1217)	47.90 (1217)	47.90 (1217)	47.90 (1217)
DH	Opening height, rear door	49.40 (1255)	49.40 (1255)	49.40 (1255)	49.40 (1255)	49.40 (1255)	49.40 (1255)
	Opening width, sliding side door	44.10 (1120)	44.10 (1120)	44.10 (1120)	44.10 (1120)	44.10 (1120)	44.10 (1120)
DW	Opening width, rear door, at belt line	57.00 (1448)	57.00 (1448)	57.00 (1448)	57.00 (1448)	57.00 (1448)	57.00 (1448)
	Step up height, front door	20.10 (511)	20.10 (511)	20.10 (511)	19.60 (498)	20.10 (511)	19.60 (498)
	Step up height, side door	20.90 (531)	20.90 (531)	20.90 (531)	20.50 (521)	20.90 (531)	20.50 (521)
GF	Ground to top of rear load floor	27.70 (704)	27.70 (704)	27.70 (704)	27.30 (693)	27.70 (704)	27.30 (693)
LFL	Load floor length to front seat, at floor	127.80 (3246)	127.80 (3246)	127.80 (3246)	147.80 (3754)	127.80 (3246)	147.80 (3754)
LFL	Load floor length to engine cover, at floor	153.60 (3901)	153.60 (3901)	153.60 (3901)	173.60 (4409)	153.60 (3901)	173.60 (4409)
IWW	Inside width, between wheelhousing	52.70 (1339)	52.70 (1339)	52.70 (1339)	52.70 (1339)	52.70 (1339)	52.70 (1339)
	Cargo area height	51.90 (1318)	51.90 (1318)	51.90 (1318)	51.90 (1318)	51.90 (1318)	51.90 (1318)

2006 Chevrolet Truck Express Cargo DIMENSIONS

All dimensions in inches (mm) unless otherwise stated.

Specifications	CG13405 G1500 Regular Wheelbase RWD	CH13405 G1500 Regular Wheelbase AWD	CG23405 G2500 Regular Wheelbase RWD	CG23705 G2500 Extended Wheelbase RWD	CG33405 G3500 Regular Wheelbase RWD	CG33705 G3500 Extended Wheelbase RWD
Ground clearance, front	8.60 (218)	8.60 (218)	8.60 (218)	8.40 (213)	8.60 (218)	8.40 (213)
Ground clearance, rear	7.60 (193)	7.60 (193)	7.60 (193)	8.10 (206)	7.60 (193)	8.10 (206)
Sign panel area, side panel	116.5 x 56.7 / (2959) x (1440)	116.5 x 56.7 / (2959) x (1440)	116.5 x 56.7 / (2959) x (1440)	136.5 x 56.7 / (3467) x (1440)	116.5 x 56.7 / (2959) x (1440)	136.5 x 56.7 / (3467) x (1440)
Overhang , front	39.70 (1008)	39.70 (1008)	39.70 (1008)	39.70 (1008)	39.70 (1008)	39.70 (1008)

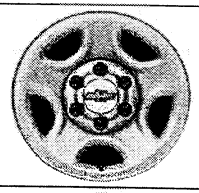
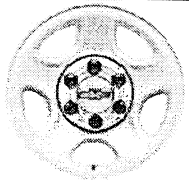
Published dimensions indicated are without optional equipment or accessories. Additional accessories or equipment ordered at the customer's request can result in a minor change in these dimensions.

2006 Chevrolet Truck Express Cargo SPECS

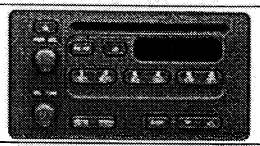
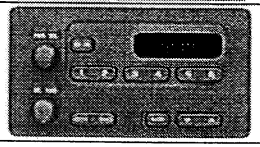
	CG13405 G1500 Regular Wheelbase RWD	CH13405 G1500 Regular Wheelbase AWD	CG23405 G2500 Regular Wheelbase RWD	CG23705 G2500 Extended Wheelbase RWD	CG33405 G3500 Regular Wheelbase RWD	CG33705 G3500 Extended Wheelbase RWD
Specifications						
Front stabilizer bar diameter, in. (mm)	1.30 (33)	1.30 (33)	1.38 (35)	1.38 (35)	1.38 (35)	1.38 (35)
Capacities						
Curb weight, lbs. (kg)	4894 (2220)	5179 (2349)	5338 (2421)	5547 (2516)	5453 (2473)	5642 (2559)
Cargo volume, regular, with seats, cu. ft. (liters)	225.1 (6374.8)	225.1 (6374.8)	225.1 (6374.8)	--	225.1 (6374.8)	--
Cargo volume, regular, with seats removed, cu. ft. (liters)	267.3 (7569.9)	267.3 (7569.9)	267.3 (7569.9)	--	267.3 (7569.9)	--
Cargo volume, extended, with seats, cu. ft. (liters)	--	--	--	261.6 (7408.5)	--	261.6 (7408.5)
Cargo volume, extended, with seats removed, cu. ft. (liters)	--	--	--	316.8 (8971.8)	--	316.8 (8971.8)
Payload[1], lbs. (kg)	2306 (1046)	2021 (917)	3262 (1480)	3053 (1385)	4147 (1881)	3958 (1795)
Gross Vehicle Weight Rating (GVWR), lbs. (kg)	7200 (3266)	7200 (3266)	8600 (3901)	8600 (3901)	9600 (4355)	9600 (4355)
Fuel capacity, approximate, gallon (liters)	31 (117)	31 (117)	31 (117)	31 (117)	31 (117)	31 (117)
Seating capacity (front/rear)	2	2	2	2	2	2

1. Maximum payload capacity includes weight of driver, passengers, optional equipment and cargo.

2006 Chevrolet Truck Express Cargo WHEELS

	**Wheels,** Gray painted, includes Gray center caps and steel spare
	P03 **Wheels,** Gray painted, includes chrome center caps and steel spare

2006 Chevrolet Truck Express Cargo RADIOS

	U1C **Sound system,** ETR AM/FM stereo with CD player, includes seek-and-scan, digital clock, TheftLock and random select. Includes front door speakers (2)
	UM7 **Sound system,** ETR AM/FM stereo, includes seek-and-scan and digital clock. Includes front door speakers (2)

Option Code	Description
2HI	Tires, front Goodyear G159 highway tread (MSRP = W/A)Provides LT225/75R16 (E) 10 ply front tires.
3HI	Tires, rear Goodyear G159 highway tread (MSRP = W/A)Provides LT225/75R16 (E) 10 ply rear tires.
40P	Wheel finish, painted White
4HI	Tires, spare Goodyear G159 highway tread (MSRP = W/A)Provides LT225/75R16 (E) 10 ply spare tires.
5C4	Front Spring, High Rate Upgrade (MSRP = $40.00)
5C5	Vinyl Sun Visors (MSRP = No Charge)Provides vinyl sun visors when deluxe cloth bucket seats are ordered. Replaces cloth sun visors.
5G0	Wheels, painted Black (MSRP = $25.00)
5G4	Provision for cab roof-mounted lamp (MSRP = $103.00)
5L3	Panel Trim, sides, side and rear cargo door (MSRP = $449.00)
5P9	Panel Trim, side and rear cargo doors (MSRP = $150.00)
5X8	Key, side cargo and rear door (MSRP = $40.00)
5Z5	Hubcap delete (MSRP = -$10.00 Credit)
7T6	Fuel fitting, for fuel line take-off (MSRP = $113.00)A fuel tank with a fuel take-off fitting that a body builder may utilize to attach an auxiliary engine fueling
8E1	Fuel, additional 3 gallons (MSRP = $10.00)
8R3	Tire valve stems, brass (MSRP = $20.00)
8S3	Backup alarm (MSRP = $95.00)
8X1	Label, fasten safety belts (MSRP = $2.00)
9F2	Mirrors, outside rearview delete (MSRP = -$20.00 Credit)
9J6	Steering column, tilt (MSRP = $145.00)
9R0	Sound system, ETR AM/FM stereo with cassette (MSRP = $150.00)
9V5	Paints, solid (MSRP = No Charge), Woodland Green
9V9	Paints, solid (MSRP = No Charge), Doeskin Tan
9W3	Paints, solid (MSRP = No Charge), Wheatland Yellow
9W4	Paints, solid (MSRP = No Charge), Tangier Orange
A18	Glass, rear cargo door windows, swing-out
A19	Glass, rear side door and rear door window, swing-out
A31	Windows, power
AG1	Seat adjuster, power, driver 6-way
AJ1	Glass, Solar-Ray deep tinted
AJ3	Air bag, frontal, driver side only
AK5	Air bags, frontal, driver and right front passenger
AR7	Seats, front vinyl reclining buckets
AS5	Seats, front Custom Cloth buckets
AU0	Keyless entry, remote
AU3	Door locks, power
B31	Floor covering, Black rubberized vinyl
B38	Floor covering, Black rubberized vinyl full length floor covering
B3D	School Bus Package,
B46	Trim, rear body-colored halo
BA3	Console, includes swing-out storage bin
BG5	Floor covering delete
C36	Heater, rear
C49	Defogger, rear-window, electric
C5Z	GVWR, 7200 lbs. (3266 kg)

Option Code	Description
C60	Air conditioning, front manual
C69	Air conditioning, rear
C6P	GVWR, 8600 lbs. (3901 kg)
C6Y	GVWR, 9600 lbs. (4354 kg)
D31	Mirror, inside rearview
DE2	Mirrors, outside rearview
DE5	Mirrors, outside rearview
DE7	Mirrors, outside rearview
DF5	Mirror, inside rearview, electrochromic
DH6	Visors, padded
DT4	Smoker's Package
E24	Door, swing-out passenger side
E26	Door, swing-out driver side
ENC	HVAC system, auxiliary provisions
FE9	Emissions, Federal requirements
G80	Differential, locking, heavy-duty, rear
GT4	Rear axle, 3.73 ratio
GT5	Rear axle, 4.10 ratio
GU6	Rear axle, 3.42 ratio
K08	Auxiliary heater, fuel operated
K68	Alternator, 105 amps
KD9	Alternators, dual, 145 amps each
KG3	Alternator, 145 amps
KL5	Alternative fuel conversion-ready engine
LLY	Engine, Duramax 6600 Turbo Diesel V8
LM7	Engine, Vortec 5300 V8 SFI
LQ4	Engine, Vortec 6000 V8 SFI
LR4	Engine, Vortec 4800 V8 SFI
LU3	Engine, Vortec 4300 V6 MFI
M30	Transmission, 4-speed automatic
MN8	Transmission, 4-speed automatic, heavy-duty
MT1	Transmission, 4-speed automatic, heavy-duty
NB8	Emissions override
NC7	Emissions override, Federal
NE1	Emissions, Maine, Massachusetts, New York or Vermont state requirements
P03	Wheels, Gray painted
PCH	Hotel Shuttle Package
PCR	Express Access Plus Package
PDN	Power and Light Package
PNF	Trim panel delete
PRP	Express Access
Q4B	GVWR, 6200 lbs. (2812 kg)
Q8C	Tire valve stem caps, air thru (MSRP = $6.00)
R6G	Air conditioning delete
R7J	GM Business Choice Upfit, commercial customer bin
R7Q	GM Business Choice Upfit, commercial customer bin
TBM	Ship Thru for all Models (MSRP = $110.00)Produced in Wentzville and shipped to Adrian Steel
TBQ	Ship Thru for all Models (MSRP = $350.00)Produced in Wentzville and shipped to Ft. Wayne

Option Code	Description
	Fleet Equipment
TCC	Ship Thru for all Models (MSRP = $640.00)Produced in Wentzville and shipped to Quigley
TGK	Solid PaintSEO solid paint, one color
TR9	Lighting, auxiliary
U05	Horn, dual-note
U1C	Sound system, ETR AM/FM stereo with CD player
UA1	Battery, heavy-duty, 800 cold-cranking amps
UF2	Lighting, Express Access Enhanced Lighting Package
UF3	Switch, High Idle
UL5	Sound system, radio provisions delete
UM7	Sound system, ETR AM/FM stereo
UXZ	Sound system, radio provisions only
UY7	Trailer wiring, 7-lead harness
V10	Cold Climate Package
V14	Transmission oil cooler, external
V14	Transmission oil cooler, external (MSRP = $ 95.00)
V22	Grille, chrome
V37	Bumpers, front and rear, chrome
VAD	Ship Thru for all Models (MSRP = $60.00)Produced in Wentzville and shipped to Crown/Masterack
VAP	Ship Thru for all Models (MSRP = $220.00)Produced in Wentzville and shipped to Knapheide Truck Equipment
VAR	Ship Thru for all Models (MSRP = $385.00)Produced in Wentzville and shipped to Midway
VCL	Emissions Certification, CFF (Clean Fuel Fleet) LEV (Low Emission Vehicle).
VCP	Ship Thru for all Models (MSRP = $185.00)Produced in Wentzville and shipped to OEM Systems.
VCY	Ship Thru for all Models (MSRP = No Charge)Produced in Wentzville and shipped to Trans Design & Mfg
VEQ	Ship Thru for Models G13405, G23405, G23705, G33405, G33705, H13405 (MSRP = W/A)Produced in Wentzville Assembly and shipped to Kranz Automotive Body Co
VK3	License plate kit, front
VXT	Incomplete vehicle certification
XEN	Tires, front P235/75R16EL, all-season, blackwall
XHF	Tires, front LT225/75R16E, all-season, blackwall
XHH	Tires, front LT245/75R16E, all-season, blackwall
XNF	Tires, front P235/75R16, all-season, blackwall
XNK	Tires, front P245/75R16, all-season, blackwall
YA2	Door, sliding passenger side
YEN	Tires, rear P235/75R16EL, all-season, blackwall
YF2	Ambulance Package
YF5	Emissions, California state requirements
YHF	Tires, rear LT225/75R16E, all-season, blackwall
YHH	Tires, rear LT245/75R16E, all-season, blackwall
YNF	Tires, rear P235/75R16, all-season, blackwall
YNK	Tires, rear P245/75R16, all-season, blackwall
Z82	Trailering equipment, heavy-duty
ZEN	Tire, spare P235/75R16EL, all-season, blackwall
ZHF	Tire, spare LT225/75R16E, all-season, blackwall
ZHH	Tire, spare LT245/75R16E, all-season, blackwall

Option Code	Description
ZNF	Tire, spare P235/75R16, all-season, blackwall
ZNK	Tire, spare P245/75R16, all-season, blackwall
ZQ2	Convenience Package
ZQ3	Convenience Package
ZR7	Chrome Appearance Package
ZW2	Glass, rear doors, fixed
ZW3	Glass, rear doors and side cargo doors, fixed
ZW4	Glass, rear doors
ZW6	Glass, full body window package
ZW9	Body, standard
ZX1	Seat, driver only high-back reclining bucket
ZX2	Seats, driver and passenger high-back reclining buckets
ZX9	Tire, spare delete
ZY1	Paint, solid

2006 Chevrolet Truck Express Cargo TRAILERING SPECS

Maximum trailer ratings are calculated assuming standard equipped vehicle, driver and required trailering equipment. The weight of optional equipment, passengers and cargo will reduce the maximum trailer weight your vehicle can tow. 10 to 15% of the trailer weight is the recommended trailer tongue load.

Automatic Transmission Ratings

Model	(LU3) Vortec 4300 V6 MFI		(LR4) Vortec 4800 V8		(LM7) Vortec 5300 V8 SFI		(LQ4) Vortec 6000 V8 SFI		(LLY) Duramax 6600 Turbo Diesel V8	
	Axle Ratio	Maximum Trailer Weight lbs. (kg)	Axle Ratio	Maximum Trailer Weight lbs. (kg)	Axle Ratio	Maximum Trailer Weight lbs. (kg)	Axle Ratio	Maximum Trailer Weight lbs. (kg)	Axle Ratio	Maximum Trailer Weight lbs. (kg)
CG13405	3.42	4300 (1950)			3.42	5900 (2676)				
					3.73	5900 (2676)				
CH13405					3.42	6500 (2948)				
					3.73	6500 (2948)				
CG23405			3.73	6300 (2858)			3.73	8300 (3765)	3.73	10000 (4536)
			4.10	7300 (3311)			4.10	10000 (4536)		
CG23705			3.73	6100 (2767)			3.73	8100 (3674)	3.73	10000 (4536)
			4.10	7100 (3221)			4.10	10000 (4536)		
CG33405			3.73	6200 (2812)			3.73	8200 (3720)	3.73	10000 (4536)
			4.10	7200 (3266)			4.10	10000 (4536)		
CG33705			3.73	6000 (2722)			3.73	8000 (3629)	3.73	10000 (4536)
			4.10	7000 (3175)			4.10	10000 (4536)		

The wiring system is designed to operate with maximum performance and reliability. Adding electrical accessories to the vehicle for which it was not designed, would case abnormalities in the electrical system.

The electrical system was designed to handle one additional stop/turn light bulb per tail light circuit (one added stop/turn light bulb to the right and left side). It is not recommended to add more than one bulb per circuit as it will result in damage to the electrical system (without optional trailer Towing Wiring). It is highly recommended to order the van with the optional Trailer Wiring, 7-lead harness (UY7) for towing.

S = Standard Equipment A = Available – (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on CG33503, CG33803 and CG33903 Models.	Work Van 1WT[1]
	AK5	**Air bags,** frontal, driver and right front passenger **1 - Not available with (ZX1) Seating arrangement, driver only high-back reclining bucket. Always use safety belts and proper child restraints, even with air bags. Children are safer when properly secured in a rear seat. See the Owner's Manual for more safety information.**	S[1]
		Air bag deactivation switch, passenger side	S
	C60	**Air conditioning,** front manual	S
		Assist handle, front passenger	S
		Cupholders, 3, on engine console cover	S
		Defogger, side window	S
	B31	**Floor covering,** Black rubberized vinyl front	S
		Headliner, cloth, over driver and passenger	S
		Heater and defogger, includes front and side window defoggers	S
		Instrumentation, analog, includes speedometer, odometer with trip odometer, fuel level, voltmeter, engine temperature and oil pressure	S
		Lighting, interior, dome lamp, includes door handle-activated switches	S
		Power outlet, auxiliary, 2 covered, on engine console cover, 12-volt	S
	AR7	**Seats,** front vinyl reclining buckets, includes head restraints **1 - Requires **W trim. Not available with (ZP0) Seats, delete driver and passenger.**	S[1]
	ZX2	**Seating arrangement,** driver and passenger highback buckets, adjustable, includes head restraints and vinyl or cloth trim	S
	UXZ	**Sound system,** radio provisions only, includes alarm warning chimes, radio wiring harness, radio antenna and front door speakers (2)	S
		Theft-deterrent system, PASSlock	S
		Tow/haul mode selector, IP mounted	S
		Visors, padded, driver and passenger side	S
		Warning tones, headlamp on, key-in-ignition	S
	ZW9	**Body,** standard	S
		Bumper, front, painted Black, includes step-pad **1 - Not available with (ZR7) Appearance Package or (YF1) RV Package.**	S[1]
		Daytime running lamps	S
		Glass, Solar-Ray light tinted, all windows	S
		Grille, Black composite, with single rectangular halogen headlamps **1 - Not available with (ZR7) Chrome Appearance Package.**	S[1]

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on CG33503, CG33803 and CG33903 Models.	Work Van 1WT[1]
	VK3	**License plate kit,** front	S
	D28	**Mirrors,** outside rearview, delete	S
	ZY1	**Paint,** solid	S
	XHH	**Tires,** front LT245/75R16E, all-season, blackwall **1 - Requires CG33503 Model. Not available with (R05) Wheels, dual rear. Jack and Spare Tire Equipment Bracket are not included on G33*03 models.**	S[1]
	YHH	**Tires,** rear LT245/75R16E, all-season, blackwall **1 - Requires CG33503 Model. Not available with (R05) Wheels, dual rear. Jack and Spare Tire Equipment Bracket are not included on G33*03 models.**	S[1]
	XHP	**Tires,** front LT225/75R16D, all-season, blackwall **1 - Standard on *G33803 or *G33903 Models. Included and only available on *G33503 model with (C7A) GVWR, 10,000 lbs. (4536 kg), (C7L) GVWR, 12,000 lbs. (5443 kg) or (C7N) GVWR, 12,300 lbs. (5579 kg). Not available with (C6Y) GVWR, 9600 lbs. (4354 kg), (C7F) GVWR, 14,050 lbs. (6373 kg) or (R04) Wheels, single rear 4 - 16" x 6.5" (40.6 cm x 16.5 cm). Jack and Spare Tire Equipment Bracket are not included on G33*03 models.**	S[1]
	YHP	**Tires,** rear LT225/75R16D, all-season, blackwall **1 - Standard on *G33803 or *G33903 Models. Included and only available on *G33503 model with (C7A) GVWR, 10,000 lbs. (4536 kg), (C7L) GVWR, 12,000 lbs. (5443 kg) or (C7N) GVWR, 12,300 lbs. (5579 kg). Not available with (C6Y) GVWR, 9600 lbs. (4354 kg), (C7F) GVWR, 14,050 lbs. (6373 kg) or (R04) Wheels, single rear 4 - 16" x 6.5" (40.6 cm x 16.5 cm). Jack and Spare Tire Equipment Bracket are not included on G33*03 models.**	S[1]
	R04	**Wheels,** single rear 4 - 16" x 6.5" (40.6 cm x 16.5 cm), steel painted Gray **1 - Requires (C6Y) GVWR, 9600 lbs. (4354 kg). Not available with (R05) Wheels, dual rear, 6 - 16" x 6.5" (40.6 cm x 16.5 cm), (XHP) Tires, front LT225/75R16D, all-season, blackwall, (YHP) Tires, rear LT225/75R16D, all-season, blackwall, (ZHP) Tire, spare LT225/75R16D, all-season, blackwall, (C7A) GVWR, 10,000 lbs. (4536 kg), (C7L) GVWR, 12,000 lbs. (5443 kg), (C7N) GVWR, 12,300 lbs. (5579 kg) or (C7F) GVWR, 14,050 lbs (6373 kg).**	S[1]
	R05	**Wheels,** dual rear, 6 - 16" x 6.5" (40.6 cm x 16.5 cm), steel painted Gray **1 - Standard on the *G33803 and *G33903 Models. On the *G33503 Model, included and only available with (C7A) GVWR, 10,000 lbs. (4536 kg), (C7L) GVWR, 12,000 lbs. (5443 kg) or (C7N) GVWR, 12,300 lbs. (5579 kg). Not available with (C6Y) GVWR, 9600 lbs. (4354 kg), (XHH) Tires, front LT245/75R16E, all-season, blackwall, (YHH) Tires, rear LT245/75R16E, all-season, blackwall, (ZHH) Tire, spare LT245/75R16E, all-season, blackwall or (R04) Wheels, single rear 4 - 16" x 6.5" (40.6 cm x 16.5 cm).**	S[1]
		Wipers, intermittent, front, wet-arm with pulse washers	S
	KG3	**Alternator,** 145 amps	S
		Battery, 600 cold-cranking amps, includes rundown protection and retained accessory power	S
		Brakes, 4-wheel antilock, 4-wheel disc	S
		Brake/transmission shift interlock, automatic transmission	S
	LR4	**Engine,** Vortec 4800 V8 SFI (285 HP [212.6 kW] @ 5200 rpm, 295 lb.-ft. [398.3 N-m] @ 4000 rpm) **1 - Standard on the *G33503 Model. Requires (C6Y) GVWR, 9600 lbs. (4354 kg) or (C7A) GVWR, 10,000 lbs. (4536 kg). Not available on the *G33803 and *G33903 Models. Not available with (YF1) RV Package, (C7L) GVWR, 12,000 lbs. (5443 kg), (C7N) GVWR, 12,300 lbs. (5579 kg) or (C7F) GVWR, 14,050 lbs. (6373 kg). Includes external engine oil cooler. Reference the Engine/Axle page for availability.**	S[1]
		Exhaust, aluminized stainless-steel muffler and tailpipe	S
		Frame, ladder-type	S
	C6Y	**GVWR,** 9600 lbs. (4354 kg) **1 - Standard on the *G33503 Model. Not available on the *G33803 or *G33903 Models or with (R05) Wheels, dual rear, 6 - 16" x 6.5" (40.6 cm x 16.5 cm). Reference the Engine/Axle page for availability.**	S[1]
	VXT	**Incomplete vehicle certification**	S
		Oil life monitor	S

2006 Chevrolet Truck Express Cutaway — STANDARD EQUIPMENT

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on CG33503, CG33803 and CG33903 Models.	Work Van 1WT[1]
	GT5	Rear axle, 4.10 ratio 1 - Not available with (LLY) Engine, Duramax 6600 Turbo Diesel V8. Reference the Engine/Axle page for availability.	S[1]
		Steering, power	S
		Suspension, front, independent coil springs and stabilizer bar	S
		Suspension, rear, hypoid drive axle with multi-leaf springs	S
	MT1	Transmission, 4-speed automatic, heavy-duty, electronically controlled with overdrive, tow/haul mode and internal transmission oil cooler 1 - Not available with (LLY) Engine, Duramax 6600 Turbo Diesel V8 or (C7F) GVWR, 14,050 lbs. (6373 kg). Reference the Engine/Axle page for availability.	S[1]

2006 Chevrolet Truck Express Cutaway — EQUIPMENT GROUPS

S = Standard Equipment A = Available – (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

No deletions allowed to Equipment Groups. Additional options may be added; check ordering information section for compatibility.

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on CG33503, CG33803 and CG33903 Models.	Work Van 1WT[1]
		Standard Equipment	■

S = Standard Equipment A = Available -- (dashes) = Not Available
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No deletions allowed to Equipment Groups. Additional options may be added; check ordering information section for compatibility.

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on CG33503, CG33803 and CG33903 Models.	Work Van 1WT[1]
		Standard Equipment	■
		ADDITIONAL OPTIONS	
Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on CG33503, CG33803 and CG33903 Models.	Work Van 1WT[1]
AJ3		**Air bag,** frontal, driver side only (deletes passenger side) **1 - Required with (ZX1) Seating arrangement, driver only high-back reclining bucket. Always use safety belts and proper child restraints, even with air bags. Children are safer when properly secured in a rear seat. See the Owner's Manual for more safety information.**	A[1]
R6G		**Air conditioning delete** **1 - Not available with (YF1) RV Package.**	A[1]
K08		**Auxiliary heater,** fuel operated **1 - Requires (LLY) Duramax 6600 Turbo Diesel V8. Included with (V10) Cold Climate Package.**	A[1]
BA3		**Console,** includes swing-out storage bin **1 - Included with (YF1) RV Package.**	A[1]
ZQ2		**Convenience Package,** power windows and door locks **1 - Includes (A31) Windows, power and (AU3) Door locks, power. Included with (YF1) RV Package.**	A[1]
ZQ3		**Convenience Package,** Tilt-Wheel and cruise control **1 - Included with (YF1) RV Package.**	A[1]
AU3		**Door locks,** power, includes Lock-out Protection **1 - Included with (ZQ2) Convenience Package.**	A[1]
D31		**Mirror,** inside rearview, manual day/night **1 - Included with (YF1) RV Package and (B3D) School Bus package.**	A[1]
AS5		**Seats,** front Custom Cloth buckets, includes head restraints and inboard armrests **1 - Requires **G trim. Not available with (ZP0) Seats, delete driver and passenger.**	A[1]
ZX1		**Seating arrangement,** driver only high-back reclining bucket, adjustable, includes head restraint and vinyl or cloth trim **1 - Deletes passenger side air bag, seat and safety belt. Components cannot be added back later. Requires (AS5) Seats, front Custom Cloth buckets or (AR7) Seats, front vinyl reclining buckets.**	A[1]
DT4		**Smoker's Package,** includes ashtray and lighter	A
UM7		**Sound system,** ETR AM/FM stereo, includes seek-and-scan and digital clock. Includes front door speakers (2) **1 - Not available with (YF1) RV Package.**	A[1]

ADDITIONAL OPTIONS			
Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on CG33503, CG33803 and CG33903 Models.	Work Van 1WT[1]
U1C		**Sound system,** ETR AM/FM stereo with CD player, includes seek-and-scan, digital clock, TheftLock and random select. Includes front door speakers (2) **1 - Included with (YF1) RV Package. With (YF1) RV Package, (U1C) Sound system is upgradeable to (UB1) Sound system, ETR AM/FM Stereo with CD and cassette player, or (UC6) Sound system, ETR AM/FM stereo with 6-disc CD changer or substituted with (UL5) Sound system, radio delete. Available on Non- (YF1) RV Package.**	A[1]
UB1		**Sound system,** ETR AM/FM stereo with CD and cassette player, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume, TheftLock, random select, auto-reverse cassette and Radio Data System (RDS). Includes front door speakers (2) **1 - Requires (YF1) RV Package and (ZQ2) Convenience Package.**	A[1]
UC6		**Sound system,** ETR AM/FM stereo with 6-disc CD changer, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume, TheftLock, random select and Radio Data System (RDS). Includes front door speakers (2) **1 - Requires (YF1) RV Package and (ZQ2) Convenience Package.**	A[1]
UL5		**Sound system,** radio provisions delete, on vehicles without (YF1) RV Package, deletes (UXZ) Sound system, radio provisions only, antenna, radio wiring harness and speakers (2). Alarm chimes replaced with base buzzer. **1 - On vehicles with (YF1) RV Package, deletes (U1C) Sound system, ETR AM/FM stereo with CD player, antenna, radio wiring harness and speakers (2). Alarm chimes replaced with base buzzer.**	A[1]
DH6		**Visors,** padded, driver and passenger side with cloth trim and dual vanity mirrors, illuminated on passenger side **1 - Requires (YF1) RV Package.**	A[1]
V46		**Bumper,** front, chrome, includes step-pad **1 - Included with (ZR7) Chrome Appearance Package.**	A[1]
ZR7		**Chrome Appearance Package** **1 - Includes (V46) Bumper, front, chrome and (V22) Grille, chrome, with dual composite halogen headlamps. Included with (YF1) RV Package and (YF2) Ambulance Package.**	A[1]
R6B		**Chrome Appearance Package Delete** **1 - Deletes (ZR7) Chrome Appearance Package from (YF1) RV Package.**	A[1]
U05		**Horn,** dual-note **1 - Included with (B3D) School Bus Package and (YF2) Ambulance Package.**	A[1]
DE2		**Mirrors,** outside rearview, manual folding, Black **1 - Requires (R04) Wheels, single rear. Not available with (YF1) RV Package or (B3D) School Bus Package.**	A[1]
DF2		**Mirrors,** outside rearview , manual folding, camper-style, high visibility, extendable, stainless-steel **1 - Included with (YF2) Ambulance Package.**	A[1]
DE5		**Mirrors,** outside rearview, manual folding, power adjust, heated, Black **1 - Requires Model *G33503, (C6Y) GVWR, 9600 lbs., (C60) Air conditioning, front manual and (YF1) RV Package. Not available with (R6G) Air conditioning delete or (B3D) School Bus Package.**	A[1]
YF2		**Ambulance Package** **1 - Requires (C7L) GVWR, 12,000 lbs. (5443 kg) and (GT4) Rear axle, 3.73 ratio. Includes (LLY) Engine, Duramax 6600 Turbo Diesel V8, (U05) Horn, dual-note tone, (DF2) Mirrors, outside rearview manual folding, (ENC) HVAC system, auxiliary provisions, (ZR7) Chrome Appearance Package, (KD9) Dual 145-amp alternators, (G80) Differential, locking, heavy-duty, rear and (UF3) Switch, High Idle. Not available with (B3D) School Bus Package or (YF1) RV Package. Not available with any other outside mirrors.**	A[1]

ADDITIONAL OPTIONS

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on CG33503, CG33803 and CG33903 Models.	Work Van 1WT[1]
YF1		**RV Package** 1 - Includes (ZR7) Chrome Appearance Package, (ZQ3) Convenience Package, (BA3) Console, includes swing-out storage bin, (BNC) Body, soft-mount donut and bolt, (U1C) Sound system, ETR AM/FM stereo with CD player, (D31) Mirror, inside rearview, manual day/night, (V14) Transmission oil cooler, external, and SEO (6E1) Fuel, additional 3 gallons. When ordered with (R05) Wheels, dual rear and (C7N) GVWR, 12,300 lbs. (5579 kg) or (C7F) GVWR, 14,050 lbs. (6373 kg) minus SEO (9T7) Door, passenger side delete, also includes (ZQ2) Convenience Package, (40P) Wheel finish, painted White and SEO (8R3) Tire valve stems, brass. When ordered with (R05) Wheels, dual rear and (C7F) GVWR, 14,050 lbs. (6373 kg) or (C7N) GVWR, 12,300 lbs. (5579 kg) and (9T7) Door, passenger side delete, also includes (40P) Wheel finish, painted White and SEO (8R3) Tire valve stems, brass. When ordered with (R04) Wheels, single rear and (C6Y) GVWR, 9600 lbs. (4354 kg) without SEO (9T7) Door, passenger side delete, also includes (ZQ2) Convenience Package. Not available with (YF2) Ambulance Package or (LLY) Engine, Duramax 6600 Turbo Diesel V8.	A[1]
B3D		**School Bus Package**, chassis equipment with brake warning indicator 1 - Requires (C6Y) GVWR, 9600 lbs. (4354 kg), (C7A) GVWR, 10,000 lbs. (4536 kg), (C7L) GVWR, 12,000 lbs. (5443 kg) or (C7N) GVWR, 12,3000 lbs. (5579 kg). Includes provisions for rear heater. Includes (D31) Mirror, inside rearview, (ENC) HVAC system, auxiliary provisions and (U05) Horn, dual note tone. Not available with (NE7) Fuel tank capacity, approximately 57 gallons (215.7L) or (DE5) Mirrors, outside rearview. Not available with (YF2) Ambulance Package or (YF1) RV Package.	A[1]
ZHH		**Tire**, spare LT245/75R16E, all-season, blackwall, located at rear underbody of vehicle 1 - Requires CG33503 Model. Not available with (R05) Wheels, dual rear. Jack and Spare Tire Equipment Bracket are not included on G33*03 models.	A[1]
ZHP		**Tire**, spare LT225/75R16D, all-season, blackwall, located at rear underbody of vehicle 1 - Requires (R05) Wheels, dual rear, 6 - 16" x 6.5" (40.6 cm x 16.5 cm). Not available with (R04) Wheels, single rear, (C6Y) GVWR, 9600 lbs. (4354 kg) or (C7F) GVWR, 14,050 lbs. (6873 kg). Jack and Spare Tire Equipment Bracket are not included on G33*03 models.	A[1]
ZHF		**Tire**, spare LT225/75R16E, all-season, blackwall 1 - Requires (C7F) GVWR, 14,050 lbs. (6373 kg).	A[1]
40P		**Wheel finish**, painted White. White painted wheels in lieu of standard Gray painted wheels. 1 - Included with (YF1) RV Package when ordered with (C7N) GVWR, 12,300 lb. (5579 kg) or (C7F) GVWR, 14,050 lbs. (6373 kg). Not available with (YF1) RV Package when ordered with (C6Y) GVWR, 9600 lb. (4354 kg).	A[1]
KL5		**Alternative fuel conversion-ready engine**, includes internal modifications for operation with natural or propane gas 1 - Requires (LQ4) Engine, Vortec 6000 V8 SFI. Not available with (YF1) RV Package.	A[1]
UA1		**Battery**, heavy-duty, 800 cold-cranking amps, includes rundown protection and retained accessory power 1 - Not available with (LLY) Engine, Duramax 6600 Turbo Diesel V8.	A[1]
BNC		**Body**, soft-mount donut and bolt (for mounting Upfit body to chassis) 1 - Included with (YF1) RV package.	A[1]
V10		**Cold Climate Package**, includes engine block heater 1 - Includes (K08) Auxiliary heater, fuel fired when ordered with (LLY) Duramax 6600 Turbo Diesel V8.	A[1]
G80		**Differential**, locking, heavy-duty, rear 1 - Included with (YF2) Ambulance Package. Not available with (C7F) GVWR, 14,050 lbs. (6373 kg).	A[1]
YF5		**Emissions**, California state requirements	A
FE9		**Emissions**, Federal requirements	A
NE1		**Emissions**, Maine, Massachusetts, New York or Vermont state requirements	A

ADDITIONAL OPTIONS

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on CG33503, CG33803 and CG33903 Models.	Work Van 1WT[1]
NC7		**Emissions override**, Federal (for vehicles ordered by dealers in Federal emission states with California, New York, Vermont, Massachusetts or Maine emissions; may also be used by dealers in states of California, New York, Vermont, Massachusetts or Maine to order different state-specific emissions) 1 - Requires (YF5) Emissions, California state requirements or (NE1) Emissions, New York, Vermont, Massachusetts or Maine state requirements.	A[1]
NB8		**Emissions override**, California, Massachusetts or New York (for vehicles ordered by dealers in states of California, Massachusetts or New York with Federal emissions) 1 - Requires (FE9) Emissions, Federal requirements.	A[1]
VCL		**Emissions Certification**, CFF (Clean Fuel Fleet) LEV (Low Emission Vehicle). Option (VCL) should ONLY be ordered to receive the CFF LEV certification. If (VCL) is not ordered, the vehicle will be produced with your normally selected emission system and may not be CFF LEV certified. Products ordered with the (VCL) option may not be certified to California emission requirements. Therefore, they may not be legal for registration in California, New York, Maine, Massachusetts and Vermont. Option (YF5) should be ordered for all vehicles ordered in California. Option (NE1) should be ordered for all vehicles ordered in Maine or Vermont.	A
LQ4		**Engine**, Vortec 6000 V8 SFI (300 HP [223.8 kW] @ 4400 rpm, 360 lb.-ft. [486.6 N-m] @ 4000 rpm) 1 - Standard on the *G33803 and *G33903 Models. Available on *G33503 Model. Includes external oil cooler. Reference the Engine/Axle page for availability.	A[1]
LLY		**Engine**, Duramax 6600 Turbo Diesel V8 (250 HP [186.4 kW] @ 3200 rpm, 460 lb.-ft [621 N-m] @ 1600 rpm) 1 - REGULAR PRODUCTION VOLUMES ARE EXPECTED IN THE SEPTEMBER TIMEFRAME. Includes (GT4) Rear axle, 3.73 ratio, (MN8) Transmission, 4-speed automatic, heavy-duty, (V14) Transmission oil cooler, external and engine oil cooler. Included with (YF2) Ambulance Package. Not available with (YF1) RV Package, (C7F) GVWR, 14,050 lbs. (6373 kg), (NE7) Fuel tank capacity, approximately 57 gallons (215.7L), (UA1) Battery, heavy-duty, 800 cold-cranking amps or (GT5) Rear axle, 4.10 ratio. Particulate filter not available until 2007. Reference the Engine/Axle page for availability.	A[1]
K50		**Fuel fitting**, auxiliary feed, in fuel tank return line 1 - Requires (LQ4) Engine, Vortec 6000 V8 SFI. Not available with (NE7) Fuel tank capacity, approximately 57 gallons (215.7L).	A[1]
NE7		**Fuel tank capacity**, approximately 57 gallons (215.7L) 1 - As part of the base design, includes the fuel fitting, auxiliary feed, in tank return line. Requires CG33803 or CG33903 Models. Not available with (K50) Fuel fitting, auxiliary feed, in fuel tank return line, (LLY) Engine, Duramax 6600 Turbo Diesel V8, or (B3D) School Bus Package.	A[1]
C7A		**GVWR**, 10,000 lbs. (4536 kg) 1 - Standard on the *G33803 Model. Available on the *G33503 Model. Not available on the *G33903 Model. Includes (R05) Wheels, dual rear, 6 - 16" x 6.5" (40.6 cm x 16.5 cm) on the *G33503 Model. Not available with (YF1) RV Package or (R04) Wheels, single rear 4 - 16" x 6.5" (40.6 cm x 16.5 cm). Reference the Engine/Axle page for availability.	A[1]
C7L		**GVWR**, 12,000 lbs. (5443 kg) 1 - Standard on the *G33903 Model. Available on the *G33503 and *G33803 Models. Includes (R05) Wheels, dual rear, 6 - 16" x 6.5" (40.6 cm x 16.5 cm) on the *G33503 Model. Not available with (YF1) RV Package or (R04) Wheels, single rear 4 - 16" x 6.5" (40.6 cm x 16.5 cm). Reference the Engine/Axle page for availability.	A[1]
C7N		**GVWR**, 12,300 lbs. (5579 kg) 1 - Available on *G33503, *G33803 and *G33903 Models. Includes (R05) Wheels, dual rear, 6 - 16" x 6.5" (40.6 cm x 16.5 cm) on the *G33503 Model. Not available with (R04) Wheels, single rear 4 - 16" x 6.5" (40.6 cm x 16.5 cm). Reference the Engine/Axle page for availability.	A[1]

ADDITIONAL OPTIONS			
Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on CG33503, CG33603 and CG33903 Models.	Work Van 1WT[1]
C7F		GVWR, 14,050 lbs. (6373 kg) 1 - Requires CG33803 Model. Requires a (TSD) or (TSM) order type. Requires (YF1) RV Package, (LQ4) Engine, Vortec 6000 V8 SFI, (MN8) Transmission, 4-speed automatic, heavy-duty, (XHF) Tires, front LT225/75R16E, all-season, blackwall and (YHF) Tires, rear LT225/75R16E, all-season, blackwall. Not available with (G80) Differential, locking, heavy-duty, rear.	A[1]
ENC		HVAC system, auxiliary provisions 1 - Included with (B3D) School Bus Package. When (B3D) School Bus Package is ordered, not available with (AU3) Door locks, power or (ZQ2) Convenience Package. Included with (YF2) Ambulance Package.	A[1]
UF3		Switch, High Idle 1 - Requires (LLY) Engine, Duramax 6600 Turbo Diesel V8. Included with (YF2) Ambulance Package.	A[1]
V14		Transmission oil cooler, external 1 - Included with (LLY) Engine, Duramax 6600 Turbo Diesel V8 or (YF1) RV Package.	A[1]

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No deletions allowed to Equipment Groups. Additional options may be added; check ordering information section for compatibility.

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on CG33503, CG33603 and CG33903 Models.	Work Van 1WT[1]
		Standard Equipment	■

S = Standard Equipment A = Available – (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on CG33503, CG33803 and CG33903 Models.	Work Van 1WT[1]
	AK5	**Air bags**, frontal, driver and right front passenger 1 - Not available with (ZX1) Seating arrangement, driver only high-back reclining bucket. Always use safety belts and proper child restraints, even with air bags. Children are safer when properly secured in a rear seat. See the Owner's Manual for more safety information.	S[1]
AJ3		**Air bag**, frontal, driver side only (deletes passenger side) 1 - Required with (ZX1) Seating arrangement, driver only high-back reclining bucket. Always use safety belts and proper child restraints, even with air bags. Children are safer when properly secured in a rear seat. See the Owner's Manual for more safety information.	A[1]
		Air bag deactivation switch, passenger side	S
	C60	**Air conditioning**, front manual	S
R6G		**Air conditioning delete** 1 - Not available with (YF1) RV Package.	A[1]
		Assist handle, front passenger	S
K08		**Auxiliary heater**, fuel operated 1 - Requires (LLY) Duramax 6600 Turbo Diesel V8. Included with (V10) Cold Climate Package.	A[1]
BA3		**Console**, includes swing-out storage bin 1 - Included with (YF1) RV Package.	A[1]
ZQ2		**Convenience Package**, power windows and door locks 1 - Includes (A31) Windows, power and (AU3) Door locks, power. Included with (YF1) RV Package.	A[1]
ZQ3		**Convenience Package**, Tilt-Wheel and cruise control 1 - Included with (YF1) RV Package.	A[1]
		Cupholders, 3, on engine console cover	S
		Defogger, side window	S
AU3		**Door locks**, power, includes Lock-out Protection 1 - Included with (ZQ2) Convenience Package.	A[1]
	B31	**Floor covering**, Black rubberized vinyl front	S
		Headliner, cloth, over driver and passenger	S
		Heater and defogger, includes front and side window defoggers	S
		Instrumentation, analog, includes speedometer, odometer with trip odometer, fuel level, voltmeter, engine temperature and oil pressure	S
		Lighting, interior, dome lamp, includes door handle-activated switches	S
D31		**Mirror**, inside rearview, manual day/night 1 - Included with (YF1) RV Package and (B3D) School Bus package.	A[1]
		Power outlet, auxiliary, 2 covered, on engine console cover, 12-volt	S

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on CG33503, CG33803 and CG33903 Models.	Work Van 1WT[1]
	AR7	**Seats**, front vinyl reclining buckets, includes head restraints 1 - Requires **W trim. Not available with (ZP0) Seats, delete driver and passenger.	S[1]
AS5		**Seats**, front Custom Cloth buckets, includes head restraints and inboard armrests 1 - Requires **G trim. Not available with (ZP0) Seats, delete driver and passenger.	A[1]
ZX1		**Seating arrangement**, driver only high-back reclining bucket, adjustable, includes head restraint and vinyl or cloth trim 1 - Deletes passenger side air bag, seat and safety belt. Components cannot be added back later. Requires (AS5) Seats, front Custom Cloth buckets or (AR7) Seats, front vinyl reclining buckets.	A[1]
	ZX2	**Seating arrangement**, driver and passenger highback buckets, adjustable, includes head restraints and vinyl or cloth trim	S
DT4		**Smoker's Package**, includes ashtray and lighter	A
	UXZ	**Sound system**, radio provisions only, includes alarm warning chimes, radio wiring harness, radio antenna and front door speakers (2)	S
UM7		**Sound system**, ETR AM/FM stereo, includes seek-and-scan and digital clock. Includes front door speakers (2) 1 - Not available with (YF1) RV Package.	A[1]
U1C		**Sound system**, ETR AM/FM stereo with CD player, includes seek-and-scan, digital clock, TheftLock and random select. Includes front door speakers (2) 1 - Included with (YF1) RV Package. With (YF1) RV Package, (U1C) Sound system is upgradeable to (UB1) Sound system, ETR AM/FM Stereo with CD and cassette player, or (UC6) Sound system, ETR AM/FM stereo with 6-disc CD changer or substituted with (UL5) Sound system, radio delete. Available on Non- (YF1) RV Package.	A[1]
UB1		**Sound system**, ETR AM/FM stereo with CD and cassette player, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume, TheftLock, random select, auto-reverse cassette and Radio Data System (RDS). Includes front door speakers (2) 1 - Requires (YF1) RV Package and (ZQ2) Convenience Package.	A[1]
UC6		**Sound system**, ETR AM/FM stereo with 6-disc CD changer, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume, TheftLock, random select and Radio Data System (RDS). Includes front door speakers (2) 1 - Requires (YF1) RV Package and (ZQ2) Convenience Package.	A[1]
UL5		**Sound system**, radio provisions delete, on vehicles without (YF1) RV Package, deletes (UXZ) Sound system, radio provisions only, antenna, radio wiring harness and speakers (2). Alarm chimes replaced with base buzzer. 1 - On vehicles with (YF1) RV Package, deletes (U1C) Sound system, ETR AM/FM stereo with CD player, antenna, radio wiring harness and speakers (2). Alarm chimes replaced with base buzzer.	A[1]
		Theft-deterrent system, PASSlock	S
		Tow/haul mode selector, IP mounted	S
		Visors, padded, driver and passenger side	S
DH6		**Visors**, padded, driver and passenger side with cloth trim and dual vanity mirrors, illuminated on passenger side 1 - Requires (YF1) RV Package.	A[1]
		Warning tones, headlamp on, key-in-ignition	S
	A31	**Windows**, power 1 - Included and only available with (ZQ2) Convenience Package.	A[1]

S = Standard Equipment A = Available – (dashes) = Not Available
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*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on CG33503, CG33803 and CG33903 Models.	Work Van 1WT[1]
	ZW9	**Body,** standard	S
V46		**Bumper,** front, chrome, includes step-pad 1 - Included with (ZR7) Chrome Appearance Package.	A[1]
		Bumper, front, painted Black, includes step-pad 1 - Not available with (ZR7) Appearance Package or (YF1) RV Package.	S[1]
ZR7		**Chrome Appearance Package** 1 - Includes (V46) Bumper, front, chrome and (V22) Grille, chrome, with dual composite halogen headlamps. Included with (YF1) RV Package and (YF2) Ambulance Package.	A[1]
R6B		**Chrome Appearance Package Delete** 1 - Deletes (ZR7) Chrome Appearance Package from (YF1) RV Package.	A[1]
		Daytime running lamps	S
		Glass, Solar-Ray light tinted, all windows	S
		Grille, Black composite, with single rectangular halogen headlamps 1 - Not available with (ZR7) Chrome Appearance Package.	S[1]
	V22	**Grille,** chrome, with dual composite halogen headlamps 1 - Included and only available with (ZR7) Chrome Appearance Package	A[1]
U05		**Horn,** dual-note 1 - Included with (B3D) School Bus Package and (YF2) Ambulance Package.	A[1]
	VK3	**License plate kit,** front	S
	D28	**Mirrors,** outside rearview, delete	S
DE2		**Mirrors,** outside rearview, manual folding, Black 1 - Requires (R04) Wheels, single rear. Not available with (YF1) RV Package or (B3D) School Bus Package.	A[1]
DF2		**Mirrors,** outside rearview , manual folding, camper-style, high visibility, extendable, stainless-steel 1 - Included with (YF2) Ambulance Package.	A[1]
DE5		**Mirrors,** outside rearview, manual folding, power adjust, heated, Black 1 - Requires Model *G33503, (C6Y) GVWR, 9600 lbs., (C60) Air conditioning, front manual and (YF1) RV Package. Not available with (R6G) Air conditioning delete or (B3D) School Bus Package.	A[1]
	ZY1	**Paint,** solid	S
YF2		**Ambulance Package** 1 - Requires (C7L) GVWR, 12,000 lbs. (5443 kg) and (GT4) Rear axle, 3.73 ratio. Includes (LLY) Engine, Duramax 6600 Turbo Diesel V8, (U05) Horn, dual-note tone, (DF2) Mirrors, outside rearview manual folding, (ENC) HVAC system, auxiliary provisions, (ZR7) Chrome Appearance Package, (KD9) Dual 145-amp alternators, (G80) Differential, locking, heavy-duty, rear and (UF3) Switch, High Idle. Not available with (B3D) School Bus Package or (YF1) RV Package. Not available with any other outside mirrors.	A[1]

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on CG33503, CG33803 and CG33903 Models.	Work Van 1WT[1]
YF1		**RV Package** 1 - Includes (ZR7) Chrome Appearance Package, (ZQ3) Convenience Package, (BA3) Console, Includes swing-out storage bin, (BNC) Body, soft-mount donut and bolt, (U1C) Sound system, ETR AM/FM stereo with CD player, (D31) Mirror, inside rearview, manual day/night, (V14) Transmission oil cooler, external, and SEO (8E1) Fuel, additional 3 gallons. When ordered with (R05) Wheels, dual rear and (C7N) GVWR, 12,300 lbs. (5579 kg) or (C7F) GVWR, 14,050 lbs. (6373 kg) minus SEO (9T7) Door, passenger side delete, also includes (ZQ2) Convenience Package, (40P) Wheel finish, painted White and SEO (8R3) Tire valve stems, brass. When ordered with (R05) Wheels, dual rear and (C7F) GVWR, 14,050 lbs. (6373 kg) or (C7N) GVWR, 12,300 lbs. (5579 kg) and (9T7) Door, passenger side delete, also includes (40P) Wheel finish, painted White and SEO (8R3) Tire valve stems, brass. When ordered with (R04) Wheels, single rear and (C6Y) GVWR, 9600 lbs. (4354 kg) without SEO (9T7) Door, passenger side delete, also includes (ZQ2) Convenience Package. Not available with (YF2) Ambulance Package or (LLY) Engine, Duramax 6600 Turbo Diesel V8.	A[1]
B3D		**School Bus Package,** chassis equipment with brake warning indicator 1 - Requires (C6Y) GVWR, 9600 lbs. (4354 kg), (C7A) GVWR, 10,000 lbs. (4536 kg), (C7L) GVWR, 12,000 lbs. (5443 kg) or (C7N) GVWR, 12,3000 lbs. (5579 kg). Includes provisions for rear heater. Includes (D31) Mirror, inside rearview, (ENC) HVAC system, auxiliary provisions and (U05) Horn, dual note tone. Not available with (NE7) Fuel tank capacity, approximately 57 gallons (215.7L) or (DE5) Mirrors, outside rearview. Not available with (YF2) Ambulance Package or (YF1) RV Package.	A[1]
	XHH	**Tires,** front LT245/75R16E, all-season, blackwall 1 - Requires CG33503 Model. Not available with (R05) Wheels, dual rear. Jack and Spare Tire Equipment Bracket are not included on G33*03 models.	S[1]
	YHH	**Tires,** rear LT245/75R16E, all-season, blackwall 1 - Requires CG33503 Model. Not available with (R05) Wheels, dual rear. Jack and Spare Tire Equipment Bracket are not included on G33*03 models.	S[1]
ZHH		**Tire,** spare LT245/75R16E, all-season, blackwall, located at rear underbody of vehicle 1 - Requires CG33503 Model. Not available with (R05) Wheels, dual rear. Jack and Spare Tire Equipment Bracket are not included on G33*03 models.	A[1]
	XHP	**Tires,** front LT225/75R16D, all-season, blackwall 1 - Standard on *G33803 or *G33903 Models. Included and only available on *G33503 model with (C7A) GVWR, 10,000 lbs. (4536 kg), (C7L) GVWR, 12,000 lbs. (5443 kg) or (C7N) GVWR, 12,300 lbs. (5579 kg). Not available with (C6Y) GVWR, 9600 lbs. (4354 kg), (C7F) GVWR, 14,050 lbs. (6373 kg) or (R04) Wheels, single rear 4 - 16" x 6.5" (40.6 cm x 16.5 cm). Jack and Spare Tire Equipment Bracket are not included on G33*03 models.	S[1]
	YHP	**Tires,** rear LT225/75R16D, all-season, blackwall 1 - Standard on *G33803 or *G33903 Models. Included and only available on *G33503 model with (C7A) GVWR, 10,000 lbs. (4536 kg), (C7L) GVWR, 12,000 lbs. (5443 kg) or (C7N) GVWR, 12,300 lbs. (5579 kg). Not available with (C6Y) GVWR, 9600 lbs. (4354 kg), (C7F) GVWR, 14,050 lbs. (6373 kg) or (R04) Wheels, single rear 4 - 16" x 6.5" (40.6 cm x 16.5 cm). Jack and Spare Tire Equipment Bracket are not included on G33*03 models.	S[1]
ZHP		**Tire,** spare LT225/75R16D, all-season, blackwall, located at rear underbody of vehicle 1 - Requires (R05) Wheels, dual rear, 6 - 16" x 6.5" (40.6 cm x 16.5 cm). Not available with (R04) Wheels, single rear, (C6Y) GVWR, 9600 lbs. (4354 kg) or (C7F) GVWR, 14,050 lbs. (6873 kg). Jack and Spare Tire Equipment Bracket are not included on G33*03 models.	A[1]
	XHF	**Tires,** front LT225/75R16E, all-season, blackwall 1 - Included and only available with (C7F) GVWR, 14,050 lbs. (6373 kg).	A[1]
	YHF	**Tires,** rear LT225/75R16E, all-season, blackwall 1 - Included and only available with (C7F) GVWR, 14,050 lbs. (6373 kg).	A[1]
ZHF		**Tire,** spare LT225/75R16E, all-season, blackwall 1 - Requires (C7F) GVWR, 14,050 lbs. (6373 kg).	A[1]
	R04	**Wheels,** single rear 4 - 16" x 6.5" (40.6 cm x 16.5 cm), steel painted Gray 1 - Requires (C6Y) GVWR, 9600 lbs. (4354 kg). Not available with (R05) Wheels, dual rear, 6 - 16" x 6.5" (40.6 cm x 16.5 cm), (XHP) Tires, front LT225/75R16D, all-season, blackwall, (YHP) Tires, rear LT225/75R16D, all-season, blackwall, (ZHP) Tire, spare LT225/75R16D, all-season, blackwall, (C7A) GVWR, 10,000 lbs. (4536 kg), (C7L) GVWR, 12,000 lbs. (5443 kg), (C7N) GVWR, 12,300 lbs. (5579 kg) or (C7F) GVWR, 14,050 lbs (6373 kg).	S[1]

2006 Chevrolet Truck Express Cutaway — EXTERIOR

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on CG33503, CG33803 and CG33903 Models.	Work Van 1WT[1]
	R05	**Wheels,** dual rear, 6 - 16" x 6.5" (40.6 cm x 16.5 cm), steel painted Gray 1 - Standard on the *G33803 and *G33903 Models. On the *G33503 Model, included and only available with (C7A) GVWR, 10,000 lbs. (4536 kg), (C7L) GVWR, 12,000 lbs. (5443 kg) or (C7N) GVWR, 12,300 lbs. (5579 kg). Not available with (C6Y) GVWR, 9600 lbs. (4354 kg), (XHH) Tires, front LT245/75R16E, all-season, blackwall, (YHH) Tires, rear LT245/75R16E, all-season, blackwall, (ZHH) Tire, spare LT245/75R16E, all-season, blackwall or (R04) Wheels, single rear 4 - 16" x 6.5" (40.6 cm x 16.5 cm).	S[1]
40P		**Wheel finish,** painted White. White painted wheels in lieu of standard Gray painted wheels. 1 - Included with (YF1) RV Package when ordered with (C7N) GVWR, 12,300 lb. (5579 kg) or (C7F) GVWR, 14,050 lbs. (6373 kg). Not available with (YF1) RV Package when ordered with (C6Y) GVWR, 9600 lb. (4354 kg).	A[1]
		Wipers, intermittent, front, wet-arm with pulse washers	S

2006 Chevrolet Truck Express Cutaway — MECHANICAL

S = Standard Equipment A = Available – (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on CG33503, CG33803 and CG33903 Models.	Work Van 1WT[1]
KL5		**Alternative fuel conversion-ready engine,** includes internal modifications for operation with natural or propane gas 1 - Requires (LQ4) Engine, Vortec 6000 V8 SFI. Not available with (YF1) RV Package.	A[1]
	KG3	**Alternator,** 145 amps	S
	KD9	**Alternators,** dual, 145 amps each 1 - Included and only available with (YF2) Ambulance Package.	A[1]
		Battery, 600 cold-cranking amps, includes rundown protection and retained accessory power	S
UA1		**Battery,** heavy-duty, 800 cold-cranking amps, includes rundown protection and retained accessory power 1 - Not available with (LLY) Engine, Duramax 6600 Turbo Diesel V8.	A[1]
BNC		**Body,** soft-mount donut and bolt (for mounting Upfit body to chassis) 1 - Included with (YF1) RV package.	A[1]
		Brakes, 4-wheel antilock, 4-wheel disc	S
		Brake/transmission shift interlock, automatic transmission	S
V10		**Cold Climate Package,** includes engine block heater 1 - Includes (K08) Auxiliary heater, fuel fired when ordered with (LLY) Duramax 6600 Turbo Diesel V8.	A[1]
G80		**Differential,** locking, heavy-duty, rear 1 - Included with (YF2) Ambulance Package. Not available with (C7F) GVWR, 14,050 lbs. (6373 kg).	A[1]
YF5		**Emissions,** California state requirements	A
FE9		**Emissions,** Federal requirements	A
NE1		**Emissions,** Maine, Massachusetts, New York or Vermont state requirements	A
NC7		**Emissions override,** Federal (for vehicles ordered by dealers in Federal emission states with California, New York, Vermont, Massachusetts or Maine emissions; may also be used by dealers in states of California, New York, Vermont, Massachusetts or Maine to order different state-specific emissions) 1 - Requires (YF5) Emissions, California state requirements or (NE1) Emissions, New York, Vermont, Massachusetts or Maine state requirements.	A[1]
NB8		**Emissions override,** California, Massachusetts or New York (for vehicles ordered by dealers in states of California, Massachusetts or New York with Federal emissions) 1 - Requires (FE9) Emissions, Federal requirements.	A[1]
VCL		**Emissions Certification,** CFF (Clean Fuel Fleet) LEV (Low Emission Vehicle). Option (VCL) should ONLY be ordered to receive the CFF LEV certification. If (VCL) is not ordered, the vehicle will be produced with your normally selected emission system and may not be CFF LEV certified. Products ordered with the (VCL) option may not be certified to California emission requirements. Therefore, they may not be legal for registration in California, New York, Maine, Massachusetts and Vermont. Option (YF5) should be ordered for all vehicles ordered in California. Option (NE1) should be ordered for all vehicles ordered in Maine or Vermont.	A

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on CG33503, CG33803 and CG33903 Models.	Work Van 1WT[1]
	LR4	**Engine,** Vortec 4800 V8 SFI (285 HP [212.6 kW] @ 5200 rpm, 295 lb.-ft. [398.3 N-m] @ 4000 rpm) 1 - Standard on the *G33503 Model. Requires (C6Y) GVWR, 9600 lbs. (4354 kg) or (C7A) GVWR, 10,000 lbs. (4536 kg). Not available on the *G33803 and *G33903 Models. Not available with (YF1) RV Package, (C7L) GVWR, 12,000 lbs. (5443 kg), (C7N) GVWR, 12,300 lbs. (5579 kg) or (C7F) GVWR, 14,050 lbs. (6373 kg). Includes external engine oil cooler. Reference the Engine/Axle page for availability.	S[1]
LQ4		**Engine,** Vortec 6000 V8 SFI (300 HP [223.8 kW] @ 4400 rpm, 360 lb.-ft. [486.6 N-m] @ 4000 rpm) 1 - Standard on the *G33803 and *G33903 Models. Available on *G33503 Model. Includes external oil cooler. Reference the Engine/Axle page for availability.	A[1]
LLY		**Engine,** Duramax 6600 Turbo Diesel V8 (250 HP [186.4 kW] @ 3200 rpm, 460 lb.-ft [621 N-m] @ 1600 rpm) 1 - REGULAR PRODUCTION VOLUMES ARE EXPECTED IN THE SEPTEMBER TIMEFRAME. Includes (GT4) Rear axle, 3.73 ratio, (MN8) Transmission, 4-speed automatic, heavy-duty, (V14) Transmission oil cooler, external and engine oil cooler. Included with (YF2) Ambulance Package. Not available with (YF1) RV Package, (C7F) GVWR, 14,050 lbs. (6373 kg), (NE7) Fuel tank capacity, approximately 57 gallons (215.7L), (UA1) Battery, heavy-duty, 800 cold-cranking amps or (GT5) Rear axle, 4.10 ratio. Particulate filter not available until 2007. Reference the Engine/Axle page for availability.	A[1]
		Exhaust, aluminized stainless-steel muffler and tailpipe	S
		Frame, ladder-type	S
K50		**Fuel fitting,** auxiliary feed, in fuel tank return line 1 - Requires (LQ4) Engine, Vortec 6000 V8 SFI. Not available with (NE7) Fuel tank capacity, approximately 57 gallons (215.7L).	A[1]
NE7		**Fuel tank capacity,** approximately 57 gallons (215.7L) 1 - As part of the base design, includes the fuel fitting, auxiliary feed, in tank return line. Requires CG33803 or CG33903 Models. Not available with (K50) Fuel fitting, auxiliary feed, in fuel tank return line, (LLY) Engine, Duramax 6600 Turbo Diesel V8, or (B3D) School Bus Package.	A[1]
	C6Y	**GVWR,** 9600 lbs. (4354 kg) 1 - Standard on the *G33503 Model. Not available on the *G33803 or *G33903 Models or with (R05) Wheels, dual rear, 6 - 16" x 6.5" (40.6 cm x 16.5 cm). Reference the Engine/Axle page for availability.	S[1]
C7A		**GVWR,** 10,000 lbs. (4536 kg) 1 - Standard on the *G33803 Model. Available on the *G33503 Model. Not available on the *G33903 Model. Includes (R05) Wheels, dual rear, 6 - 16" x 6.5" (40.6 cm x 16.5 cm) on the *G33503 Model. Not available with (YF1) RV Package or (R04) Wheels, single rear 4 - 16" x 6.5" (40.6 cm x 16.5 cm). Reference the Engine/Axle page for availability.	A[1]
C7L		**GVWR,** 12,000 lbs. (5443 kg) 1 - Standard on the *G33903 Model. Available on the *G33503 and *G33803 Models. Includes (R05) Wheels, dual rear, 6 - 16" x 6.5" (40.6 cm x 16.5 cm) on the *G33503 Model. Not available with (YF1) RV Package or (R04) Wheels, single rear 4 - 16" x 6.5" (40.6 cm x 16.5 cm). Reference the Engine/Axle page for availability.	A[1]
C7N		**GVWR,** 12,300 lbs. (5579 kg) 1 - Available on *G33503, *G33803 and *G33903 Models. Includes (R05) Wheels, dual rear, 6 - 16" x 6.5" (40.6 cm x 16.5 cm) on the *G33503 Model. Not available with (R04) Wheels, single rear 4 - 16" x 6.5" (40.6 cm x 16.5 cm). Reference the Engine/Axle page for availability.	A[1]
C7F		**GVWR,** 14,050 lbs. (6373 kg) 1 - Requires CG33803 Model. Requires a (TSD) or (TSM) order type. Requires (YF1) RV Package, (LQ4) Engine, Vortec 6000 V8 SFI, (MN8) Transmission, 4-speed automatic, heavy-duty, (XHF) Tires, front LT225/75R16E, all-season, blackwall and (YHF) Tires, rear LT225/75R16E, all-season, blackwall. Not available with (G80) Differential, locking, heavy-duty, rear.	A[1]
ENC		**HVAC system,** auxiliary provisions 1 - Included with (B3D) School Bus Package. When (B3D) School Bus Package is ordered, not available with (AU3) Door locks, power or (ZQ2) Convenience Package. Included with (YF2) Ambulance Package.	A[1]
	VXT	**Incomplete vehicle certification**	S
		Oil life monitor	S

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on CG33503, CG33803 and CG33903 Models.	Work Van 1WT[1]
	GT4	**Rear axle,** 3.73 ratio 1 - Included and only available with (LLY) Engine, Duramax 6600 Turbo Diesel V8 . Reference the Engine/Axle page for availability.	A[1]
	GT5	**Rear axle,** 4.10 ratio 1 - Not available with (LLY) Engine, Duramax 6600 Turbo Diesel V8. Reference the Engine/Axle page for availability.	S[1]
		Steering, power	S
		Suspension, front, independent coil springs and stabilizer bar	S
		Suspension, rear, hypoid drive axle with multi-leaf springs	S
UF3		**Switch, High Idle** 1 - Requires (LLY) Engine, Duramax 6600 Turbo Diesel V8. Included with (YF2) Ambulance Package.	A[1]
	MT1	**Transmission,** 4-speed automatic, heavy-duty, electronically controlled with overdrive, tow/haul mode and internal transmission oil cooler 1 - Not available with (LLY) Engine, Duramax 6600 Turbo Diesel V8 or (C7F) GVWR, 14,050 lbs. (6373 kg). Reference the Engine/Axle page for availability.	S[1]
	MN8	**Transmission,** 4-speed automatic, heavy-duty, electronically controlled with overdrive, tow/haul mode and internal transmission oil cooler 1 - Included and only available with (LLY) Engine, Duramax 6600 Turbo Diesel V8 or (C7F) GVWR, 14,050 lbs. (6373 kg). Reference the Engine/Axle page for availability.	A[1]
V14		**Transmission oil cooler,** external 1 - Included with (LLY) Engine, Duramax 6600 Turbo Diesel V8 or (YF1) RV Package.	A[1]

2006 Chevrolet Truck Express Cutaway ENGINE/AXLE

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		Transmissions		Axles		GVWR lbs. (kg)				
Model	Engine	MT1 4-Speed Automatic HD	MN8 4-Speed Automatic	GT4 3.73	GT5 4.10	C6Y 9600 (4354)	C7A 10,000 (4536)	C7L 12,000 (5443)	C7N 12,300 (5579)	C7F 14,050 (6373)
CG33503	LR4 Vortec 4800 V8 SFI	S	--	--	S	S[1]	A[2]	--	--	--
	LQ4 Vortec 6000 V8 SFI	S	--	--	S	S[1]	A[2]	A[2]	A[2]	--
	LLY Duramax 6600 Turbo Diesel V8	--	S	S	--	S[1]	A[2]	A[2]	A[2]	--
CG33803	LQ4 Vortec 6000 V8 SFI	S	--	--	S	--	S[2]	A[2]	A[2]	A[3]
	LLY Duramax 6600 Turbo Diesel V8	--	S	S	--	--	S[2]	A[2]	A[2]	--
CG33903	LQ4 Vortec 6000 V8 SFI	S	--	--	S	--	--	S[2]	A[2]	--
	LLY Duramax 6600 Turbo Diesel V8	--	S	S	--	--	--	S[2]	A[2]	--

1 - Requires (R04) Single rear wheels.
2 - Requires (R05) Dual rear wheels.
3 - Requires (YF1) RV Package and (R05) Dual rear wheels.

2006 Chevrolet Truck Express Cutaway COLOR AND TRIM - SOLID PAINT ZY1

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*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

				Interior	
Decor Level	Seat Type	Seat Code	Seat Trim	Neutral	Medium Dark Pewter
Work Van	Reclining high-back buckets	AR7[1]	Vinyl	52W	93W
Work Van	Reclining high-back buckets with inboard armrests	AS5[2]	Custom Cloth	52G	93G

			Interior	
Exterior Solid Paint	Color Code	Touch Up Paint Number	Neutral	Medium Dark Pewter
Sandstone Metallic	15U	WA-929L	A	--
NEW! Graystone Metallic	16U	WA-213M	--	A
Dark Blue Metallic	25U	WA-722J	A	A
Black	41U	WA-8555	A	A
Dark Green Metallic	47U	WA-9539	A	A
Summit White	50U	WA-8624	A	A
Silver Birch Metallic	59U	WA-926L	--	A
NEW! Sport Red Metallic	63U	WA-817K	A	A
Victory Red	74U	WA-9260	A	A

Above interior combinations are the only combinations allowed.
1 - Standard on Express Cutaway.
2 - Available on Express Cutaway.

2006 Chevrolet Truck Express Cutaway COLOR AND TRIM - SEO SOLID PAINT

S = Standard Equipment A = Available – (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Decor Level	Seat Type	Seat Code	Seat Trim	Interior	
				Neutral	Medium Dark Pewter
Base	Reclining high-back buckets	AR7[1]	Vinyl	52W	93W
Base	Reclining high-back buckets with inboard armrests	AS5[2]	Custom Cloth	52G	93G

Exterior Solid Paint	Color Code	Touch-Up Paint Number	Interior	
			Neutral	Medium Dark Pewter
Yellow	none	WA-5456	A	A
Green	none	WA-7927	A	A
Green	none	WA-7941	A	A
Silver Metallic	none	WA-8867	A	A
Green, Woodland	9V5	WA-9015	A	A
Doeskin Tan	9V9	WA-9403	A	A
Tangier Orange	9W4	WA-9417	A	A
Light Stellar Blue	none	WA-146B	A	A
Orange	none	WA-9419	A	A
Yellow	none	WA-215D	A	A
Wheatland Yellow	9W3	WA-253A	A	A
Yellow	none	WA-259L	A	A
Madrid Red	none	WA-341D	A	A
Yellow	none	WA-478G	A	A
Galaxy Silver Metallic	none	WA-519F	A	A
Bronzemist	none	WA-529F	A	A
NEW! Yellow	none	WA-9414	A	A

1 - Standard on Express Cutaway Base.
2 - Available on Express Cutaway Base.

2006 Chevrolet Truck Express Cutaway SEO OPTIONS/SHIP THRU CODES

S = Standard Equipment A = Available – (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group TWT available on CG33503, CG33803 and CG33903 Models.	Work Van TWT[1]
		Interior	
5Q7		**Blank Sail Panel Delete (MSRP = No Charge)** Deletes the driver and passenger side blank (non-mirror) sail panels with RPO (D28) mirrors, outside rear view, delete. **1 - Requires RPO (D28) mirrors, outside rear view, delete. Not available with any outside rear view mirror options.**	A[1]
AG1		**Seat adjuster, power, driver 6-way riser only (MSRP = $160.00)** Upfitter option. Multi-directional 6-way power driver seat riser. Does not include driver seat. **1 - Requires SEO (ZP1) Seating, temporary driver only or SEO (ZP0) Seats, delete driver and passenger to be ordered and priced in addition to SEO (AG1) and an order for shipment to an upfitter or body builder.**	A[1]
AG2		**Seat adjuster, power, front passenger 6-way riser only (MSRP $160.00)** Upfitter option. Multi-directional 6-way power passenger seat riser. Does not include passenger seat. **1 - Requires RPO (AG1) Seat adjuster, power, driver 6-way, RPO (ZP0) Seats, delete driver and passenger to be ordered and priced in addition to RPO (AG2) and an order for shipment to an upfitter or body builder.**	A[1]
ZP1		**Seating, temporary driver only (MSRP = -$250.00 Credit)** This SEO is a seat delete option that deletes the driver and passenger front seats and provides a seat riser with a temporary seat on driver side only. **1 - Requires RPO (AJ3) Air bag, frontal, driver side only and SEO (9T7) Door, passenger side delete. Not available with RPO (ZQ2) Convenience Package, power windows and door locks or RPO (ZX1) Seat, driver only high-back reclining bucket.**	A[1]
ZP0		**Seats, delete driver and passenger, leaves seat risers on both sides (MSRP = -$75.00 Credit)** Upfitter Option. Deletes the standard driver and passenger front seats. Provides driver and passenger seat risers with adjusters and seat belts. Provides a temporary seat facility only for transportation of vehicle **1 - Requires shipment to an upfitter or body builder.**	A[1]
9R0		**Sound system, ETR AM/FM stereo with cassette (MSRP = W/A)** AM/FM radio with cassette and digital clock, no CD player. **1 - Requires a Fleet or Federal Government sales order.**	A[1]
9J6		**Steering column, tilt (MSRP = $145.00)** Tilt-steering column without cruise control. **1 - Not Available with RPO (ZQ3) Convenience Package or RPO (YF1) RV Package.**	A[1]
5C5		**Vinyl Sun Visors (MSRP = No Charge)** Provides vinyl sun visors when deluxe cloth bucket seats are ordered. Replaces cloth sun visors. **1 - Requires a Fleet or Federal Government sales order and RPO (AS5) Seats, front Custom Cloth buckets. Not available with RPO (DH6) Visor, padded, driver and passenger side with cloth trim and dual vanity mirrors or RPO (YF1) RV Package.**	A[1]
		Exterior	

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on CG33503, CG33803 and CG33903 Models.	Work Van 1WT[1]
8E9		**Bumper, front, painted White (MSRP = $45.00)** White painted front bumper in lieu of the standard Black. 1 - Requires a Fleet or Federal Government sales order. Not available with RPO (YF1) RV Package or RPO (ZR7) Chrome Appearance Package.	A[1]
9T7		**Door, passenger side delete (MSRP = -$140.00 Credit)** Upfitter option. Deletes the passenger door and replaces it with a temporary plastic shipping cover. Passenger side radio speaker is shipped loose. 1 - Requires shipment to an upfitter or body builder and RPO (ZX1) Seat, driver only high-back reclining bucket or SEO (ZP1) Seating, temporary driver only. Not available with outside mirror options or RPO (ZQ2) Convenience Package.	A[1]
8H9		**Flasher, HD turn signal (MSRP = $30.00)** Compatible with LED Chassis provisions. Designed to handle lighting systems installed on bodies that are 80" or wider.	A
5Z5		**Hubcap delete (MSRP = -$10.00 Credit)** Deletes hub caps from standard wheels.	A
8X1		**Label, fasten safety belts (MSRP = $2.00)** "Fasten Safety Belts" reminder label on side door window glass. 1 - Not available with SEO (9T7) Door, passenger side delete.	A[1]
6M3		**Mirrors, outside rearview, convex combination (MSRP = $332.00)** Provides 6.5" X 10" flat and 6.5 X 6" convex heads each side. Convex head positioned under the flat head on a West Coast style arm assembly with spring loaded pre-set feature. Includes cab drillings and mirror assembly shipped loose. 1 - Not available with RPO (YF1) RV Package.	A[1]
9F3		**Mirrors, outside rearview, convex combination low mount (MSRP = $168.00)** 7" X 6.5" flat surface over a 7" X 3" convex surface within a common mirror head mounted on a camper type mirror arm. Includes cab drillings and mirror assembly shipped loose. 1 - Requires Models G33503 or G33803, RPO (C6Y) GVWR, 9600 lbs. (4354 kg) or RPO (C7A) GVWR, 10,000 lbs. (4536 kg). Not available on RPO (YF1) RV Package. Not available with higher GVWR's due to mirror size.	A[1]
DE5		**Mirrors, outside rearview, foldaway, power, heated, Black (MSRP = $225.00)** Exterior driver and passenger side electric heated remote control mirrors. Passenger side mirror will be flat. 1 - Requires RPO (C60) Air conditioning and RPO (ZQ2) Convenience Package. Not available with (YF1) RV Package.	A[1]
6R2		**Wide stance, sail panel mounted, mirrors (MSRP = $250.00)** Provides Velvac convex combination RH and LH outside rear view mirrors that are sail panel mounted with arms that provide a wide stance. Mirrors can be utilized with bodies that are up to 96 inch width. Mirrors provide a 63.3 sq. inch flat glass positioned over a 30.1 sq. inch convex glass within a common head. Mirrors are shipped loose in vehicle.	A
8F2		**Ornamentation, delete (MSRP = $12.00)** Upfitter Option. Deletes the badging and emblems that are standard on the vehicle and ships these items loose.	A
9V9		**Paints, solid (MSRP = No Charge),** Doeskin Tan 1 - Requires SEO (TGK) Special Paint, one color.	A[1]

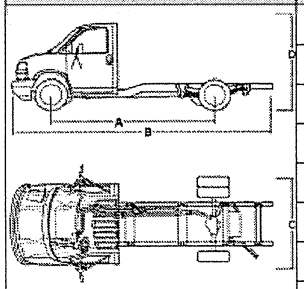
Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1WT available on CG33503, CG33803 and CG33903 Models.	Work Van 1WT[1]
9W4		**Paints, solid (MSRP = No Charge),** Tangier Orange 1 - Requires SEO (TGK) Special Paint, one color.	A[1]
9W3		**Paints, solid (MSRP = No Charge),** Wheatland Yellow 1 - Requires SEO (TGK) Special Paint, one color.	A[1]
9V5		**Paints, solid (MSRP = No Charge),** Woodland Green 1 - Requires SEO (TGK) Special Paint, one color.	A[1]
R04		**Rear axle with single rear wheels (MSRP = $195.00)** Provides a rear axle with 16" (40.6cm) single rear wheels in lieu of the standard dual rear wheels. 1 - Requires Model G33803, RPO (C6Y) GVWR, 9600 lbs. (4354 kg), RPO (XHH) Tires, front LT245/75R16E, all-season, blackwall, RPO (YHH) Tires, rear LT245/75R16E, all-season, blackwall, SEO (9R5) Suspension, rear multi-leaf and a Fleet or Federal Government sales order. Not available with RPO (YF1) RV Package.	A[1]
TGK		**Solid Paint** SEO solid paint, one color 1 - Required with any SEO paint selection. May require extended lead time.	A[1]
2HI		**Tires, front Goodyear G159 highway tread (MSRP = W/A)** Provides LT225/75R16 (E) 10 ply front tires. 1 - Requires SEO (3HI) Tires, rear Goodyear G159, Models CG33503, CG33803 or CG33903, RPO (LQ4) Engine, Vortec 6000 V8 SF1 or LR4 Vortec 4800 V8 SF1 Engine on Models CG33503 and CG33803, RPO (LQ4) Engine, Vortec 6000 V8 SF1 on Model CG33803, RPO (C7A), 10,000 lb. GVWR on Models CG33503, CG33803 and CG33903, RPO (C7L) GVWR, 12,000 lb. (5443 kg.) on Models CG33803 or CG33903. Requires RPO (R05) Dual rear wheels on Models CG33503 and CG33803. Not available with RPO (YF1) RV Package or with RPO (LLY) Engine, Duramax 6600 Turbo Diesel V8.	A[1]
3HI		**Tires, rear Goodyear G159 highway tread (MSRP = W/A)** Provides LT225/75R16 (E) 10 ply rear tires. 1 - Requires SEO (2HI) front tires Goodyear G159 and Models CG33503, CG33803 or CG33903, RPO (LQ4) Engine, Vortec 6000 V8 SF1 or (LR4) Engine, Vortec 4800 V8 SF1 on Models CG33503 and CG33803, RPO (LQ4) Engine, Vortec 6000 V8 SF1 on Model CG33903, RPO (C7A), 10,000 lb. GVWR on Models CG33503, CG33803, and CG33903, RPO (C7L) GVWR, 12,000 lb. (5443 kg,) on Models CG33803 and CG33903. Requires RPO (R05) Dual rear wheels on Models CG33503 and CG33803. Not available with RPO (YF1) RV Package or with RPO (LLY) Engine, Duramax 6600 Turbo Diesel V8.	A[1]
Q8C		**Tire valve stem caps, air thru (MSRP = $6.00) with RPO (R04) Wheels, single rear, (MSRP= $9.00) with RPO (R05) Wheels, dual rear** Air through valve caps on the tire air valves. 1 - Not available with (YF1) RV Package. Included with SEO (8R2) Tire valve stems, long, brass.	A[1]
8R3		**Tire valve stems, brass (MSRP = $20.00) with RPO (R04) Wheels, (MSRP = $30.00) with RPO (R05) Wheels, dual rear without SEO (8R2) Tire valve stems, long, brass (MSRP = $20.00) with RPO (R05) Wheels, dual rear and SEO (8R2) Tire valve stems, long, brass** Brass metal valve stem in lieu of standard. Also included on spare when furnished. 1 - Included with RPO (YF1) RV Package when ordered with RPO (C7N) 12,300 lb. GVWR or RPO (C7F) 14,050 lb. GVWR. Not available with RPO (YF1) RV Package when ordered with RPO (C6Y) 9600 lb. GVWR.	A[1]
8R2		**Tire valve stems, long, brass, for inside dual rear wheels (MSRP = $10.00)** Brass metal long valve stems on the inner wheels of dual rear wheel axles for easy air inflation. Includes air-thru valve caps. 1 - Requires RPO (R05) Wheels, dual rear on Model G33503 and G33803. Not available with RPO (YF1) RV Package. Includes SEO (Q8C) Tire valve stem caps.	A[1]

2006 Chevrolet Truck Express Cutaway SEO OPTIONS/SHIP THRU CODES

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group TWT available on CG33503, CG33803 and CG33903 Models.	Work Van TWT[1]
5G0		**Wheels, painted Black (MSRP = $20.00) with RPO (R04) Wheels, single rear and no spare tire ordered, (MSRP = $25.00) with RPO (R04) Wheels, single rear and a spare tire ordered, (MSRP = $30.00) with RPO (R05) Wheels, dual rear and no spare tire ordered, (MSRP = $35.00) with RPO (R05) Wheels, dual rear and a spare tire ordered** Black painted wheels in lieu of standard Gray painted wheels.	A
		Mechanical	
UJ1		**Brake Warning Indicator (MSRP = $65.00)** An audible and visual brake system warning indicator. Included with RPO (B3D) School Bus Package. **1 - Included with RPO (B3D) School Bus Package.**	A[1]
9C7		**Coolant recovery bottle with tethered cap (MSRP = $12.00)** Tethered no-loss cap on the coolant recovery bottle. **1 - Not available with RPO (YF1) RV Package or with RPO (LLY) Engine, Duramax 6600 Turbo Diesel V8.**	A[1]
5C4		**Front Spring, High Rate Upgrade (MSRP = $40.00)** Provides computer selected high rate front springs. Intended for a upfit that requires higher center of gravity loads that are located at or near the front axle. Provides increased front spring capacity but will not change the front GAWR rating **1 - Requires Model G33803, RPO (C7L) GVWR, 12,000 lbs (5443 kg) and shipment to an Upfitter or Body Builder. Not available with (B3D) School Bus Package.**	A[1]
8E1		**Fuel, additional 3 gallons (MSRP = $10.00)** 3 gallons of fuel in addition to normal assembly plant fill.	A
9B4		**Fuel fill cap with stainless steel tether (MSRP = $15.00)** Fuel filler pipe cap with a stainless steel tether in lieu of the standard plastic tether. **1 - Not available with RPO (YF1) RV Package or with RPO (LLY) Engine, Duramax 6600 Turbo Diesel V8.**	A[1]
9R5		**Suspension, rear multi-leaf (MSRP = $66.00)** Multi-leaf suspension on the rear of the vehicle in lieu of the standard tapered leaf. **1 - Not available with RPO (YF1) RV Package or with RPO (C7N) 12,000 GVWR.**	A[1]
		Ship Thru Codes	
TBM		**Ship Thru for all Models (MSRP = $110.00)** Produced in Wentzville and shipped to Adrian Steel	A
TCC		**Ship Thru for all Models (MSRP = $640.00)** Produced in Wentzville and shipped to Quigley	A
VAD		**Ship Thru for all Models (MSRP = $60.00)** Produced in Wentzville and shipped to Crown/Masterack	A
VAP		**Ship Thru for all Models (MSRP = $220.00)** Produced in Wentzville and shipped to Knapheide Truck Equipment	A
VAR		**Ship Thru for all Models (MSRP = $385.00)** Produced in Wentzville and shipped to Midway	A

2006 Chevrolet Truck Express Cutaway DIMENSIONS

All dimensions in inches (mm) unless otherwise stated.



	Specifications	CG33503 135" Wheelbase	CG33803 159" Wheelbase	CG33903 177" Wheelbase
A	**Wheelbase**	139.00 (3531)	159.00 (4039)	177.00 (4496)
B	**Overall length**	246.70 (6266)	266.70 (6774)	284.80 (7234)
C	**Body width**	79.10 (2009)	79.10 (2009)	79.10 (2009)
D	**Overall height**	82.90 (2106)	82.90 (2106)	82.90 (2106)
	Head room, front	40.20 (1021)	40.20 (1021)	40.20 (1021)
	Shoulder room, front	68.80 (1748)	68.80 (1748)	68.80 (1748)
	Hip room, front	65.50 (1664)	65.50 (1664)	65.50 (1664)
	Leg room, front	41.30 (1049)	41.30 (1049)	41.30 (1049)
	Cab to axle	80.00 (2032)	100.00 (2540)	118.00 (2997)
	Front bumper to back of cab	98.70 (2507)	98.70 (2507)	98.70 (2507)
	Ground clearance, front	7.60 (193)	7.60 (193)	7.60 (193)
	Ground clearance, rear	6.80 (173)	7.00 (178)	7.00 (178)
	Overhang , front	39.70 (1008)	39.70 (1008)	39.70 (1008)
	Cab to end of frame	148.50 (3772)	168.50 (4280)	186.50 (4737)
	Ground to top of frame	23.31 (592)	23.31 (592)	23.31 (592)
	Frame width , rear	34.80 (884)	34.80 (884)	34.80 (884)

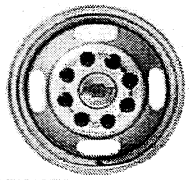
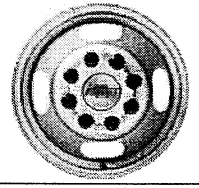
Published dimensions indicated are without optional equipment or accessories. Additional accessories or equipment ordered at the customer's request can result in a minor change in these dimensions.

2006 Chevrolet Truck Express Cutaway SPECS

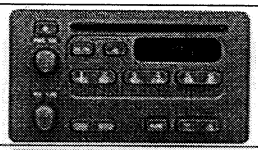
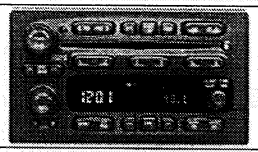
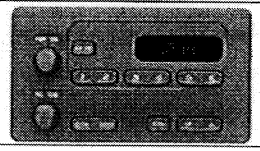
	CG33503 139" Wheelbase	CG33803 159" Wheelbase	CG33903 177" Wheelbase
Specifications			
Front shock absorber diameter, in. (mm)	1.38 (35)	1.38 (35)	1.38 (35)
Front stabilizer bar diameter, in. (mm)	1.38 (35)	1.38 (35)	1.38 (35)
Rear shock absorber diameter, in. (mm)	1.38 (35)	1.38 (35)	1.38 (35)
Capacities			
Front axle, lbs. (kg)	4300 (1950)	4300 (1950)	4300 (1950)
Front spring capacity, lbs. (kg)	4100 (1860)	4100 (1860)	4300 (1950)
Rear axle, lbs. (kg)	6084 (2760)	7500 (3402)	8600 (3901)
Rear spring capacity, lbs. (kg)	6084 (2760)	7500 (3402)	8600 (3901)
Curb weight, lbs. (kg)	4528 (2054)	4848 (2199)	4895 (2220)
Payload[1], lbs. (kg)	5072 (2301)	5152 (2337)	7105 (3223)
Gross Vehicle Weight Rating (GVWR), lbs. (kg)	9600 (4355)	10000 (4536)	12000 (5443)
Front Gross Axle Weight Rating (GAWR), lbs. (kg)	4100 (1860)	4100 (1860)	4600 (2087)
Rear Gross Axle Weight Rating (GAWR), lbs. (kg)	6084 (2760)	7500 (3402)	8600 (3901)
Fuel capacity, approximate, gallon (liters)	33 (125)	33 (125)	33 (125)
Seating capacity (front/rear)	2	2	2

1. Maximum payload capacity includes weight of driver, passengers, optional equipment and cargo.

2006 Chevrolet Truck Express Cutaway WHEELS

	R05 **Wheels,** dual rear, 6 - 16" x 6.5" (40.6 cm x 16.5 cm), steel painted Gray
	R04 **Wheels,** single rear 4 - 16" x 6.5" (40.6 cm x 16.5 cm), steel painted Gray

2006 Chevrolet Truck Express Cutaway RADIOS

	U1C **Sound system,** ETR AM/FM stereo with CD player, includes seek-and-scan, digital clock, TheftLock and random select. Includes front door speakers (2)
	UB1 **Sound system,** ETR AM/FM stereo with CD and cassette player, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume, TheftLock, random select, auto-reverse cassette and Radio Data System (RDS). Includes front door speakers (2)
	UC6 **Sound system,** ETR AM/FM stereo with 6-disc CD changer, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume, TheftLock, random select and Radio Data System (RDS). Includes front door speakers (2)
	UM7 **Sound system,** ETR AM/FM stereo, includes seek-and-scan and digital clock. Includes front door speakers (2)

2006 Chevrolet Truck Express Cutaway RPO CODES

Option Code	Description
2HI	Tires, front Goodyear G159 highway tread (MSRP = W/A)Provides LT225/75R16 (E) 10 ply front tires.
3HI	Tires, rear Goodyear G159 highway tread (MSRP = W/A)Provides LT225/75R16 (E) 10 ply rear tires.
40P	Wheel finish, painted White
5C4	Front Spring, High Rate Upgrade (MSRP = $40.00)
5C5	Vinyl Sun Visors (MSRP = No Charge)Provides vinyl sun visors when deluxe cloth bucket seats are ordered. Replaces cloth sun visors.
5G0	Wheels, painted Black (MSRP = $20.00) with RPO (R04) Wheels, single rear and no spare tire ordered, (MSRP = $25.00) with RPO (R04) Wheels, single rear and a spare tire ordered, (MSRP = $30.00) with RPO (R05) Wheels, dual rear and no spare tire ordered, (MSRP = $35.00) with RPO (R05) Wheels, dual rear and a spare tire ordered
5Q7	Blank Sail Panel Delete (MSRP = No Charge)
5Z5	Hubcap delete (MSRP = -$10.00 Credit)
6M3	Mirrors, outside rearview, convex combination (MSRP = $332.00)
6R2	Wide stance, sail panel mounted, mirrors (MSRP = $250.00)
8E1	Fuel, additional 3 gallons (MSRP = $10.00)
8E9	Bumper, front, painted White (MSRP = $45.00)
8F2	Ornamentation, delete (MSRP = $12.00)
8H9	Flasher, HD turn signal (MSRP = $30.00)
8R2	Tire valve stems, long, brass, for inside dual rear wheels (MSRP = $10.00)
8R3	Tire valve stems, brass (MSRP = $20.00) with RPO (R04) Wheels, (MSRP = $30.00) with RPO (R05) Wheels, dual rear without SEO (8R2) Tire valve stems, long, brass (MSRP = $20.00) with RPO (R05) Wheels, dual rear and SEO (8R2) Tire valve stems, long, brass
8X1	Label, fasten safety belts (MSRP = $2.00)
9B4	Fuel fill cap with stainless steel tether (MSRP = $15.00)
9C7	Coolant recovery bottle with tethered cap (MSRP = $12.00)
9F3	Mirrors, outside rearview, convex combination low mount (MSRP = $168.00)
9J6	Steering column, tilt (MSRP = $145.00)
9R0	Sound system, ETR AM/FM stereo with cassette (MSRP = W/A)
9R5	Suspension, rear multi-leaf (MSRP = $66.00)
9T7	Door, passenger side delete (MSRP = -$140.00 Credit)
9V5	Paints, solid (MSRP = No Charge), Woodland Green
9V9	Paints, solid (MSRP = No Charge), Doeskin Tan
9W3	Paints, solid (MSRP = No Charge), Wheatland Yellow
9W4	Paints, solid (MSRP = No Charge), Tangier Orange
A31	Windows, power
AG1	Seat adjuster, power, driver 6-way riser only (MSRP = $160.00)
AG2	Seat adjuster, power, front passenger 6-way riser only (MSRP $160.00)
AJ3	Air bag, frontal, driver side only
AK5	Air bags, frontal, driver and right front passenger
AR7	Seats, front vinyl reclining buckets
AS5	Seats, front Custom Cloth buckets
AU3	Door locks, power
B31	Floor covering, Black rubberized vinyl front
B3D	School Bus Package,
BA3	Console, includes swing-out storage bin
BNC	Body, soft-mount donut and bolt
C60	Air conditioning, front manual
C6Y	GVWR, 9600 lbs. (4354 kg)

2006 Chevrolet Truck Express Cutaway RPO CODES

Option Code	Description
C7A	GVWR, 10,000 lbs. (4536 kg)
C7F	GVWR, 14,050 lbs. (6373 kg)
C7L	GVWR, 12,000 lbs. (5443 kg)
C7N	GVWR, 12,300 lbs. (5579 kg)
D28	Mirrors, outside rearview, delete
D31	Mirror, inside rearview
DE2	Mirrors, outside rearview
DE5	Mirrors, outside rearview, foldaway, power, heated, Black (MSRP = $225.00)
DE5	Mirrors, outside rearview
DF2	Mirrors, outside rearview
DH6	Visors, padded
DT4	Smoker's Package
ENC	HVAC system, auxiliary provisions
FE9	Emissions, Federal requirements
G80	Differential, locking, heavy-duty, rear
GT4	Rear axle, 3.73 ratio
GT5	Rear axle, 4.10 ratio
K08	Auxiliary heater, fuel operated
K50	Fuel fitting, auxiliary feed
KD9	Alternators, dual, 145 amps each
KG3	Alternator, 145 amps
KL5	Alternative fuel conversion-ready engine
LLY	Engine, Duramax 6600 Turbo Diesel V8
LQ4	Engine, Vortec 6000 V8 SFI
LR4	Engine, Vortec 4800 V8 SFI
MN8	Transmission, 4-speed automatic, heavy-duty
MT1	Transmission, 4-speed automatic, heavy-duty
NB8	Emissions override
NC7	Emissions override, Federal
NE1	Emissions, Maine, Massachusetts, New York or Vermont state requirements
NE7	Fuel tank capacity
Q8C	Tire valve stem caps, air thru (MSRP = $6.00) with RPO (R04) Wheels, single rear, (MSRP= $9.00) with RPO (R05) Wheels, dual rear
R04	Rear axle with single rear wheels (MSRP = $195.00)
R04	Wheels, single rear
R05	Wheels, dual rear
R6B	Chrome Appearance Package Delete
R6G	Air conditioning delete
TBM	Ship Thru for all Models (MSRP = $110.00)Produced in Wentzville and shipped to Adrian Steel
TCC	Ship Thru for all Models (MSRP = $640.00)Produced in Wentzville and shipped to Quigley
TGK	Solid PaintSEO solid paint, one color
U05	Horn, dual-note
U1C	Sound system, ETR AM/FM stereo with CD player
UA1	Battery, heavy-duty, 800 cold-cranking amps
UB1	Sound system, ETR AM/FM stereo with CD and cassette player
UC6	Sound system, ETR AM/FM stereo with 6-disc CD changer
UF3	Switch, High Idle
UJ1	Brake Warning Indicator (MSRP = $65.00)

2006 Chevrolet Truck Express Cutaway RPO CODES

Option Code	Description
UL5	Sound system, radio provisions delete
UM7	Sound system, ETR AM/FM stereo
UXZ	Sound system, radio provisions only
V10	Cold Climate Package
V14	Transmission oil cooler, external
V22	Grille, chrome
V46	Bumper, front, chrome
VAD	Ship Thru for all Models (MSRP = $60.00)Produced in Wentzville and shipped to Crown/Masterack
VAP	Ship Thru for all Models (MSRP = $220.00)Produced in Wentzville and shipped to Knapheide Truck Equipment
VAR	Ship Thru for all Models (MSRP = $385.00)Produced in Wentzville and shipped to Midway
VCL	Emissions Certification, CFF (Clean Fuel Fleet) LEV (Low Emission Vehicle).
VK3	License plate kit, front
VXT	Incomplete vehicle certification
XHF	Tires, front LT225/75R16E, all-season, blackwall
XHH	Tires, front LT245/75R16E, all-season, blackwall
XHP	Tires, front LT225/75R16D, all-season, blackwall
YF1	RV Package
YF2	Ambulance Package
YF5	Emissions, California state requirements
YHF	Tires, rear LT225/75R16E, all-season, blackwall
YHH	Tires, rear LT245/75R16E, all-season, blackwall
YHP	Tires, rear LT225/75R16D, all-season, blackwall
ZHF	Tire, spare LT225/75R16E, all-season, blackwall
ZHH	Tire, spare LT245/75R16E, all-season, blackwall
ZHP	Tire, spare LT225/75R16D, all-season, blackwall
ZP0	Seats, delete driver and passenger, leaves seat risers on both sides (MSRP = -$75.00 Credit)
ZP1	Seating, temporary driver only (MSRP = -$250.00 Credit)This SEO is a seat delete option that deletes the driver and passenger front seats and provides a seat riser with a temporary seat on driver side only.
ZQ2	Convenience Package
ZQ3	Convenience Package
ZR7	Chrome Appearance Package
ZW9	Body, standard
ZX1	Seating arrangement, driver only high-back reclining bucket
ZX2	Seating arrangement, driver and passenger highback buckets
ZY1	Paint, solid

2006 Chevrolet Truck Express Cutaway TRAILERING SPECS

Maximum trailer ratings are calculated assuming standard equipped vehicle, driver and required trailering equipment. The weight of optional equipment, passengers and cargo will reduce the maximum trailer weight your vehicle can tow. 10 to 15% of the trailer weight is the recommended trailer tongue load.

GCWR For Engine/Rear Axle Ratio Combination with Automatic Transmission		
Engine	(GCWR) Gross Combination Weight Ratings lbs. (kg)	
	13000 (5897)	16000 (7258)
(LR4) Vortec 4800 V8 SFI	4.10	
(LQ4) Vortec 6000 V8 SFI		4.10
(LLY) Duramax 6600 Turbo Diesel V8		3.73

S = Standard Equipment A = Available -- (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group SLT is available on CG23405 and CG33405 Models. 2 - Equipment group 1WT is available on CG23405, CG23705, CG33405 and CG33705 Models.	Y3G SLT[1]	Y3H 1WT[2]
	AK5	**Air bags,** frontal, driver and right front passenger 1 - Includes passenger side deactivation switch for Models with (C6P) GVWR, 8600 lbs. (3901 kg) and above. Not available with (ZX1) Seat, driver only high-back reclining bucket or (AJ3) Air bag, frontal, driver side only. Always use safety belts and proper child restraints, even with air bags. Children are safer when properly secured in a rear seat. See the Owner's Manual for more safety information.	S[1]	S[1]
		Air bag deactivation switch, passenger side 1 - Requires (C6P) GVWR, 8600 lbs. (3901 kg) or (C6Y) GVWR, 9600 lbs. (4354 kg).	S[1]	S[1]
	C60	**Air conditioning,** front manual	S	S
		Assist handle, front passenger	S	S
		Console, base, includes open storage bin	--	S
		Cupholders, 3, on engine console cover	S	S
		Defogger, side window	S	S
		Headliner, cloth, over driver and passenger	S	S
		Instrumentation, analog, includes speedometer, odometer with trip odometer, fuel level, voltmeter, engine temperature and oil pressure	S	S
		Key, single, 2-sided	S	S
		Lighting, 2 dome lamps, includes defeat switch and door handle-activated switches	S	S
	D31	**Mirror,** inside rearview, manual day/night	S	S
		Power outlet, auxiliary, 2 covered, on engine console cover, 12-volt	S	S
	AR7	**Seats,** front vinyl reclining buckets, includes head restraints 1 - Requires (**W) Interior Trim.	--	S[1]
	ZX2	**Seats,** driver and passenger high-back reclining buckets, adjustable, includes head restraints and vinyl or cloth trim	--	S
	UXZ	**Sound system,** radio provisions only, includes alarm warning chimes, radio wiring harness, radio antenna and front door speakers (2)	--	S
		Steering wheel, steel sleeve column, includes theft-deterrent locking feature, Black	S	S
		Theft-deterrent system, PASSlock	S	S
		Tow/haul mode selector, IP mounted	S	S
		Visors, padded, driver and passenger side	--	S
		Warning tones, headlamp on, key-in-ignition	S	S
	ZW9	**Body,** standard	S	S

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group SLT is available on CG23405 and CG33405 Models. 2 - Equipment group 1WT is available on CG23405, CG23705, CG33405 and CG33705 Models.	Y3G SLT[1]	Y3H 1WT[2]
		Bumpers, front and rear, painted Black, includes step-pad 1 - Not available with (ZR7) Chrome Appearance Package	--	S[1]
		Daytime running lamps	S	S
	E24	**Door,** swing-out passenger side, 60/40 split	S	S
		Door beams, steel-side	S	S
		Glass, Solar-Ray light tinted, all windows	S	S
		Grille, Black composite, with single rectangular halogen headlamps 1 - Not available with (ZR7) Chrome Appearance Package	--	S[1]
		Headlamps, single rectangular halogen	--	S
	VK3	**License plate kit,** front	S	S
	DE2	**Mirrors,** outside rearview, manual folding, Black 1 - If the van is an extended Model (*G**7**), or if the van has no rear windows, then the van will get a flat right side mirror. All other vans will have a convex right side mirror.	--	S[1]
	ZY1	**Paint,** solid	S	S
	XHH	**Tires,** front LT245/75R16E, all-season, blackwall 1 - Standard on the *G23405, *G23705, *G33405 and *G33705 Models	S[1]	S[1]
	YHH	**Tires,** rear LT245/75R16E, all-season, blackwall 1 - Standard on the *G23405, *G23705, *G33405 and *G33705 Models	S[1]	S[1]
	ZHH	**Tire,** spare LT245/75R16E, all-season, blackwall, located at rear underbody of vehicle 1 - Standard on the *G23405, *G23705, *G33405 and *G33705 Models	S[1]	S[1]
		Wheels, Gray painted, includes steel spare	--	S
		Wipers, intermittent, front, wet-arm with pulse washers	S	S
		Brakes, 4-wheel antilock, 4-wheel disc	S	S
		Brake/transmission shift interlock, automatic transmission	S	S
	LQ4	**Engine,** Vortec 6000 V8 SFI (300 HP [223.8 kW] @ 4400 rpm, 360 lb.-ft. [486.6 N-m] @ 4000 rpm) 1 - Includes external engine cooler.	S[1]	S[1]
		Exhaust, aluminized stainless-steel muffler and tailpipe	S	S
		Frame, full-length box ladder-type	S	S
	C6P	**GVWR,** 8600 lbs. (3901 kg) 1 - Standard on *G23*05 when ordered with (LQ4) Engine, Vortec 6000 V8 SFI.	S[1]	S[1]
	C6Y	**GVWR,** 9600 lbs. (4354 kg) 1 - Standard on *G33*05 Model.	S[1]	S[1]
		Oil life monitor	S	S
	GT4	**Rear axle,** 3.73 ratio 1 - Standard on all *G23*05 and *G33*05 Models.	S[1]	S[1]
		Steering, power	S	S
		Suspension, front, independent coil springs and stabilizer bar	S	S
		Suspension, rear, hypoid drive axle with multi-leaf springs	S	S

2006 Chevrolet Truck Express Cargo STANDARD EQUIPMENT Mobility/Paratransit

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 5LT is available on CG23405 and CG33405 Models. 2 - Equipment group 1WT is available on CG23405, CG23705, CG33405 and CG33705 Models.	Y3G 5LT[1]	Y3H 1WT[2]
	MT1	**Transmission,** 4-speed automatic, heavy-duty, electronically controlled with overdrive, tow/haul mode and internal transmission oil cooler	S	S

2006 Chevrolet Truck Express Cargo EQUIPMENT GROUPS Mobility/Paratransit

S = Standard Equipment A = Available – (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

No deletions allowed to Equipment Groups. Additional options may be added; check ordering information section for compatibility.

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 5LT is available on CG23405 and CG33405 Models. 2 - Equipment group 1WT is available on CG23405, CG23705, CG33405 and CG33705 Models.	Y3G 5LT[1]	Y3H 1WT[2]
BA3		**Console,** includes swing-out storage bin	■	A
AU3		**Door locks,** power, includes Lock-out Protection 1 - Included with (ZQ2) Convenience Package.	■	A[1]
	BG5	**Floor covering delete**	■	–
	B31	**Floor covering,** Black rubberized vinyl, front only (deletes rear covering behind front seat)	–	■
TR9		**Lighting,** auxiliary, includes reading and underhood lights	■	A
	VK5	**Seat,** temporary driver, includes driver and passenger side safety belts and seat risers	■	–
U1C		**Sound system,** ETR AM/FM stereo with CD player, includes seek-and-scan, digital clock, TheftLock and random select. Includes front door speakers (2)	■	A
	PNC	**Trim panels,** front, side and rear doors	■	–
	DH6	**Visors,** padded, driver and passenger side with cloth trim and dual vanity mirrors, illuminated on passenger side	■	–
	A31	**Windows,** power 1 - Included and only available with (ZQ2) Convenience Package.	■	A[1]
V37		**Bumpers,** front and rear, chrome, includes step-pad 1 - Included with (ZR7) Chrome Appearance Package.	■[1]	A[1]
	ZW6	**Glass,** full body window package, fixed 1 - May upgrade fixed glass to swing-out glass, see (A18) Glass, rear cargo door windows, swing-out. Upgrade requires (A19) Glass, rear side door and rear door window, swing-out.	■[1]	■
	A18	**Glass,** rear cargo door windows, swing-out 1 - Included with (A19) Glass, rear side door and rear door window, swing-out.	■[1]	■
A19		**Glass,** rear side door and rear door window, swing-out 1 - Includes (A18) Glass, rear cargo door windows, swing-out.	■[1]	A[1]
	V22	**Grille,** chrome, with dual composite halogen headlamps 1 - Included and only available with (ZR7) Chrome Appearance Package	■[1]	A[1]
DE5		**Mirrors,** outside rearview, manual folding, power adjust, heated, Black 1 - If the van is an extended Model (*G**7**), or if the van has no rear windows, then the van will get a flat right side mirror. All other vans will have a convex right side mirror. 2 - Requires (ZQ2) Power Door Locks and Windows Package. If the van is an extended Model (*G**7**), or if the van has no rear windows, then the van will get a flat right side mirror. All other vans will have a convex right side mirror.	■[1]	A[2]

2006 Chevrolet Truck Express Cargo EQUIPMENT GROUPS
Mobility/Paratransit

S = Standard Equipment A = Available – (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

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*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group SLT is available on CG23405 and CG33405 Models. 2 - Equipment group 1WT is available on CG23405, CG23705, CG33405 and CG33705 Models.	Y3G SLT[1]	Y3H 1WT[2]
BA3		**Console,** includes swing-out storage bin	■	A
AU3		**Door locks,** power, includes Lock-out Protection 1 - Included with (ZQ2) Convenience Package.	■	A[1]
	BG5	**Floor covering delete**	■	--
	B31	**Floor covering,** Black rubberized vinyl, front only (deletes rear covering behind front seat)	--	■
TR9		**Lighting,** auxiliary, includes reading and underhood lights	■	A
	VK5	**Seat,** temporary driver, includes driver and passenger side safety belts and seat risers	■	--
U1C		**Sound system,** ETR AM/FM stereo with CD player, includes seek-and-scan, digital clock, TheftLock and random select. Includes front door speakers (2)	■	A
	PNC	**Trim panels,** front, side and rear doors	■	--
	DH6	**Visors,** padded, driver and passenger side with cloth trim and dual vanity mirrors, illuminated on passenger side	■	--
	A31	**Windows,** power 1 - Included and only available with (ZQ2) Convenience Package.	■	A[1]
V37		**Bumpers,** front and rear, chrome, includes step-pad 1 - Included with (ZR7) Chrome Appearance Package.	■[1]	A[1]
	ZW6	**Glass,** full body window package, fixed 1 - May upgrade fixed glass to swing-out glass, see (A18) Glass, rear cargo door windows, swing-out. Upgrade requires (A19) Glass, rear side door and rear door window, swing-out.	■[1]	■
	A18	**Glass,** rear cargo door windows, swing-out 1 - Included with (A19) Glass, rear side door and rear door window, swing-out.	■[1]	■
A19		**Glass,** rear side door and rear door window, swing-out 1 - Includes (A18) Glass, rear cargo door windows, swing-out.	■[1]	A[1]
	V22	**Grille,** chrome, with dual composite halogen headlamps 1 - Included and only available with (ZR7) Chrome Appearance Package	■[1]	A[1]
DE5		**Mirrors,** outside rearview, manual folding, power adjust, heated, Black 1 - If the van is an extended Model (*G**7**), or if the van has no rear windows, then the van will get a flat right side mirror. All other vans will have a convex right side mirror. 2 - Requires (ZQ2) Power Door Locks and Windows Package. If the van is an extended Model (*G**7**), or if the van has no rear windows, then the van will get a flat right side mirror. All other vans will have a convex right side mirror.	■[1]	A[2]

2006 Chevrolet Truck Express Cargo EQUIPMENT GROUPS
Mobility/Paratransit

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group SLT is available on CG23405 and CG33405 Models. 2 - Equipment group 1WT is available on CG23405, CG23705, CG33405 and CG33705 Models.	Y3G SLT[1]	Y3H 1WT[2]
B46		**Trim,** rear body-colored halo (replaces standard black panels located above rear tail lamps) 1 - Not included when exterior paint colors (41U) Black, (63U) Sport Red Metallic or (TGK) SEO solid paint are ordered. These colors will receive a Black halo. 2 - Not available with (41U) Black, (63U) Sport Red Metallic or (TGK) SEO solid paint. These colors will receive a Black halo.	■[1]	A[2]
P03		**Wheels,** Gray painted, includes chrome center caps and steel spare	■	A
	KG3	**Alternator,** 145 amps	■	■
	UA1	**Battery,** heavy-duty, 800 cold-cranking amps, includes rundown protection and retained accessory power	■	■
	VXT	**Incomplete vehicle certification**	■	■

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 5LT is available on CG23405 and CG33405 Models. 2 - Equipment group 1WT is available on CG23405, CG23705, CG33405 and CG33705 Models.	Y3G 5LT[1]	Y3H 1WT[2]
B46		Trim, rear body-colored halo (replaces standard black panels located above rear tail lamps) 1 - Not included when exterior paint colors (41U) Black, (63U) Sport Red Metallic or (TGK) SEO solid paint are ordered. These colors will receive a Black halo. 2 - Not available with (41U) Black, (63U) Sport Red Metallic or (TGK) SEO solid paint. These colors will receive a Black halo.	■[1]	A[2]
P03		Wheels, Gray painted, includes chrome center caps and steel spare	■	A
	KG3	Alternator, 145 amps	■	■
	UA1	Battery, heavy-duty, 800 cold-cranking amps, includes rundown protection and retained accessory power	■	■
	VXT	Incomplete vehicle certification	■	■

ADDITIONAL OPTIONS

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 5LT is available on CG23405 and CG33405 Models. 2 - Equipment group 1WT is available on CG23405, CG23705, CG33405 and CG33705 Models.	Y3G 5LT[1]	Y3H 1WT[2]
Y3H		Paratransit Package 1 - Includes (B31) Floor covering, Black rubberized vinyl, front only, (ZW6) Glass, full body window package, fixed, (A18) Glass, rear door window, swing-out, (UA1) Battery, heavy-duty, 800 cold-cranking amps, (KG3) Alternator, 145 amps, SEO (5L3) Panel trim, sides, side and rear cargo door, and (VXT) Incomplete vehicle certification. Available with (B46) Trim, rear body-colored halo (not available with (41U) Black).	--	A[1]
Y3G		Personal use mobility prep package 1 - Includes (AU3) Door locks, power, (A31) Windows, power, (ZW6) Glass, full body window package, fixed, (A18) Glass, rear door window, swing-out, (A19) Glass, rear side door and rear door window, swing-out, (BG5) Floor covering delete, (B46) Trim, rear body-colored halo (not available with (41U)), (KG3) Alternator, 145 amps, (P03) Wheels, Gray painted, (BA3) Console, includes swing-out storage bin, (TR9) Lighting, auxiliary, (DE5) Mirrors, outside rearview, (DH6) Visors, padded, (V22) Grille, chrome, (V37) Bumpers, front and rear, chrome, (UA1) Battery, 800 cold-cranking amps, (U1C) Sounds system, ETR AM/FM stereo with CD player, (VXT) Incomplete vehicle certification, (VK5) Seat, temporary driver, and (PNC) Trim panels, front, side and rear doors.	A[1]	--
AJ3		Air bag, frontal, driver side only (deletes passenger side) 1 - Required with (ZX1) Seat, driver only high-back reclining bucket. Requires (C6P) GVWR, 8600 lbs. (3901 kg) if ordered with (ZX2) Seats, driver and passenger high-back reclining buckets on *G23405 or *G23705 models. Available with (ZX2) Seats, driver and passenger high-back reclining buckets on *G33405 or *G33705 models. Always use safety belts and proper child restraints, even with air bags. Children are safer when properly secured in a rear seat. See the Owner's Manual for more safety information.	--	A[1]
C69		Air conditioning, rear 1 - Includes (C36) Heater, rear.	A[1]	--
BA3		Console, includes swing-out storage bin	■	A
ZQ2		Convenience Package, Power Door Locks and Windows Package 1 - Includes (AU3) Door locks, power and (A31) Windows, power. (ZQ2) Convenience Package will be included in the (Y3G) Personal use mobility prep package, however (ZQ2) Convenience Package will not appear on the order.	--	A[1]
ZQ3		Convenience Package, Tilt-Wheel and cruise control	--	A

ADDITIONAL OPTIONS

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 5LT is available on CG23405 and CG33405 Models. 2 - Equipment group 1WT is available on CG23405, CG23705, CG33405 and CG33705 Models.	Y3G 5LT[1]	Y3H 1WT[2]
C49		Defogger, rear-window, electric 1 - Requires (A18) Glass, rear door window, swing-out and (AJ1) Glass, Solar-Ray deep tinted.	A[1]	A[1]
AU3		Door locks, power, includes Lock-out Protection 1 - Included with (ZQ2) Convenience Package.	■	A[1]
B38		Floor covering, Black rubberized vinyl full length floor covering	--	A
C36		Heater, rear, auxiliary 1 - Included with (C69) Air conditioning, rear.	A[1]	--
AU0		Keyless entry, remote, includes 2 transmitters and remote panic button	A	--
TR9		Lighting, auxiliary, includes reading and underhood lights	■	A
DF5		Mirror, inside rearview, electrochromic (light-sensitive auto dimming), 8-point compass and outside temperature indicator 1 - Requires (ZR7) Chrome Appearance Package. Requires (ZW6) Glass, full body window package, fixed.	A[1]	A[1]
ZX1		Seat, driver only high-back reclining bucket, adjustable, includes head restraint and vinyl or cloth trim 1 - Deletes passenger side air bag, seat and safety belt. Components cannot be added back later.	--	A[1]
AG1		Seat adjuster, power, driver, 6-way (riser only)	A	--
AG2		Seat adjuster, power, passenger, 6-way (riser only) 1 - Requires (AG1) Seat adjuster, power driver 6-way (riser only).	A[1]	--
UM7		Sound system, ETR AM/FM stereo, includes seek-and-scan and digital clock. Includes front door speakers (2)	--	A
U1C		Sound system, ETR AM/FM stereo with CD player, includes seek-and-scan, digital clock, TheftLock and random select. Includes front door speakers (2)	■	A
UB1		Sound system, ETR AM/FM stereo with CD and cassette player, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume, TheftLock, random select, auto-reverse cassette and Radio Data System (RDS). Includes front door speakers (2) 1 - Upgradeable to (UC6) Sound system, ETR AM/FM stereo with 6-disc CD changer.	A[1]	--
UC6		Sound system, ETR AM/FM stereo with 6-disc CD changer, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume, TheftLock and Radio Data System (RDS). Includes front door speakers (2)	A	--
DT4		Smoker's Package, includes ashtray and lighter	A	A
V37		Bumpers, front and rear, chrome, includes step-pad 1 - Included with (ZR7) Chrome Appearance Package.	■[1]	A[1]
ZR7		Chrome Appearance Package 1 - Includes (V37) Bumpers, front and rear, chrome, includes step-pad and (V22) Grille, chrome, with dual composite halogen headlamps. (ZR7) Chrome Appearance Package will be included in the (Y3G) Personal use mobility prep package, however (ZR7) Chrome Appearance Package will not appear on the order.	--	A[1]

ADDITIONAL OPTIONS				
Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1SLT is available on CG23405 and CG33405 Models. 2 - Equipment group 1WT is available on CG23405, CG23705, CG33405 and CG33705 Models.	Y3G 1SLT[1]	Y3H 1WT[2]
E26		**Door,** swing-out driver side, 60/40 split 1 - Requires CG23405 or CG33405 Models. Glass package must match right side, if equipped.	A[1]	--
A19		**Glass,** rear side door and rear door window, swing-out 1 - Includes (A18) Glass, rear cargo door windows, swing-out.	■[1]	A[1]
AJ1		**Glass,** Solar-Ray deep tinted (all windows except light tinted glass on windshield, driver and front passenger) 1 - Requires (A19) Glass, rear side door and rear door window, swing-out.	A[1]	A[1]
U05		**Horn,** dual-note	A	A
DE5		**Mirrors,** outside rearview, manual folding, power adjust, heated, Black 1 - If the van is an extended Model ("G**7**"), or if the van has no rear windows, then the van will get a flat right side mirror. All other vans will have a convex right side mirror. 2 - Requires (ZQ2) Power Door Locks and Windows Package. If the van is an extended Model ("G**7**"), or if the van has no rear windows, then the van will get a flat right side mirror. All other vans will have a convex right side mirror.	■[1]	A[2]
XHF		**Tires,** front LT225/75R16E, all-season, blackwall 1 - Requires *G23405 or *G23705 Model and (C6P) GVWR, 8600 lbs. (3901 kg).	A[1]	A[1]
B46		**Trim,** rear body-colored halo (replaces standard black panels located above rear tail lamps) 1 - Not included when exterior paint colors (41U) Black, (63U) Sport Red Metallic or (TGK) SEO solid paint are ordered. These colors will receive a Black halo. 2 - Not available with (41U) Black, (63U) Sport Red Metallic or (TGK) SEO solid paint. These colors will receive a Black halo.	■[1]	A[2]
P03		**Wheels,** Gray painted, includes chrome center caps and steel spare	■	A
40P		**Wheel finish,** painted White. White painted wheels in lieu of standard Gray painted wheels. Includes spare wheel. 1 - Not available with (P03) Wheels, chrome center caps.	--	A[1]
KL5		**Alternative fuel conversion-ready engine,** includes internal modifications for operation with natural or propane gas 1 - Requires (LQ4) Engine, Vortec 6000 V8 SFI.	A[1]	A[1]
V10		**Cold Climate Package,** includes engine block heater	A	A
G80		**Differential,** locking, heavy-duty, rear	A	A
FE9		**Emissions,** Federal requirements	A	A
YF5		**Emissions,** California state requirements	A	A
NE1		**Emissions,** Maine, Massachusetts, New York or Vermont state requirements	A	A
NC7		**Emissions override,** Federal (for vehicles ordered by dealers in Federal emission states with California, New York, Vermont, Massachusetts or Maine emissions; may also be used by dealers in states of California, New York, Vermont, Massachusetts or Maine to order different state-specific emissions) 1 - Requires (YF5) Emissions, California state requirements or (NE1) Emissions, New York, Vermont, Massachusetts or Maine state requirements.	A[1]	A[1]

ADDITIONAL OPTIONS				
Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 1SLT is available on CG23405 and CG33405 Models. 2 - Equipment group 1WT is available on CG23405, CG23705, CG33405 and CG33705 Models.	Y3G 1SLT[1]	Y3H 1WT[2]
NB8		**Emissions override,** California, Massachusetts or New York (for vehicles ordered by dealers in states of California, Massachusetts or New York with Federal emissions) 1 - Requires (FE9) Emissions, Federal requirements.	A[1]	A[1]
VCL		**Emissions Certification,** CFF (Clean Fuel Fleet) LEV (Low Emission Vehicle). Option (VCL) should ONLY be ordered to receive the CFF LEV certification. If (VCL) is not ordered, the vehicle will be produced with your normally selected emission system and may not be CFF LEV certified. Products ordered with the (VCL) option may not be certified to California emission requirements. Therefore, they may not be legal for registration in California, New York, Maine, Massachusetts and Vermont. Option (YF5) should be ordered for all vehicles ordered in California. Option (NE1) should be ordered for all vehicles ordered in Maine or Vermont.	--	A
GT5		**Rear axle,** 4.10 ratio	A	A
Z82		**Trailering equipment,** heavy-duty, includes trailering hitch platform and 7-lead wiring harness 1 - Includes (UY7) Trailer wiring, 7-lead harness.	A[1]	A[1]
UY7		**Trailer wiring,** 7-lead harness 1 - Included with (Z82) Trailering equipment, heavy-duty.	A[1]	A[1]
V14		**Transmission oil cooler,** external	A	A

2006 Chevrolet Truck Express Cargo PEG STAIRSTEP Mobility/Paratransit

S = Standard Equipment A = Available – (dashes) = Not Available
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No deletions allowed to Equipment Groups. Additional options may be added; check ordering information section for compatibility.

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group SLT is available on CG23405 and CG33405 Models. 2 - Equipment group 1WT is available on CG23405, CG23705, CG33405 and CG33705 Models.	Y3G SLT[1]	Y3H 1WT[2]
	KG3	Alternator, 145 amps	■	■
	UA1	Battery, heavy-duty, 800 cold-cranking amps	■	■
	ZW6	Glass, full body window package	■	■
	A18	Glass, rear cargo door windows, swing-out	■	■
	VXT	Incomplete vehicle certification	■	■
V37		Bumpers, front and rear, chrome	■	
BA3		Console, includes swing-out storage bin	■	
AU3		Door locks, power	■	
	BG5	Floor covering delete	■	
A19		Glass, rear side door and rear door window, swing-out	■	
	V22	Grille, chrome	■	
TR9		Lighting, auxiliary	■	
DE5		Mirrors, outside rearview	■	
	VK5	Seat, temporary driver	■	
U1C		Sound system, ETR AM/FM stereo with CD player	■	
B46		Trim, rear body-colored halo	■	
	PNC	Trim panels	■	
	DH6	Visors, padded	■	
P03		Wheels, Gray painted	■	
	A31	Windows, power	■	
	B31	Floor covering, Black rubberized vinyl		■

2006 Chevrolet Truck Express Cargo INTERIOR Mobility/Paratransit

S = Standard Equipment A = Available – (dashes) = Not Available
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Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group SLT is available on CG23405 and CG33405 Models. 2 - Equipment group 1WT is available on CG23405, CG23705, CG33405 and CG33705 Models.	Y3G SLT[1]	Y3H 1WT[2]
Y3H		**Paratransit Package** 1 - Includes (B31) Floor covering, Black rubberized vinyl, front only, (ZW6) Glass, full body window package, fixed, (A18) Glass, rear door window, swing-out, (UA1) Battery, heavy-duty, 800 cold-cranking amps, (KG3) Alternator, 145 amps, SEO (SL3) Panel trim, sides, side and rear cargo door, and (VXT) Incomplete vehicle certification. Available with (B46) Trim, rear body-colored halo (not available with (41U) Black).	–	A[1]
Y3G		**Personal use mobility prep package** 1 - Includes (AU3) Door locks, power, (A31) Windows, power, (ZW6) Glass, full body window package, fixed, (A18) Glass, rear door window, swing-out, (A19) Glass, rear side door and rear door window, swing-out, (BG5) Floor covering delete, (B46) Trim, rear body-colored halo (not available with (41U)), (KG3) Alternator, 145 amps, (P03) Wheels, Gray painted, (BA3) Console, includes swing-out storage bin, (TR9) Lighting, auxiliary, (DE5) Mirrors, outside rearview, (DH6) Visors, padded, (V22) Grille, chrome, (V37) Bumpers, front and rear, chrome, (UA1) Battery, 800 cold-cranking amps, (U1C) Sounds system, ETR AM/FM stereo with CD player, (VXT) Incomplete vehicle certification, (VK5) Seat, temporary driver, and (PNC) Trim panels, front, side and rear doors.	A[1]	–
	AK5	**Air bags**, frontal, driver and right front passenger 1 - Includes passenger side deactivation switch for Models with (C6P) GVWR, 8600 lbs. (3901 kg) and above. Not available with (ZX1) Seat, driver only high-back reclining bucket or (AJ3) Air bag, frontal, driver side only. Always use safety belts and proper child restraints, even with air bags. Children are safer when properly secured in a rear seat. See the Owner's Manual for more safety information.	S[1]	S[1]
		Air bag deactivation switch, passenger side 1 - Requires (C6P) GVWR, 8600 lbs. (3901 kg) or (C6Y) GVWR, 9600 lbs. (4354 kg).	S[1]	S[1]
AJ3		**Air bag**, frontal, driver side only (deletes passenger side) 1 - Required with (ZX1) Seat, driver only high-back reclining bucket. Requires (C6P) GVWR, 8600 lbs. (3901 kg) if ordered with (ZX2) Seats, driver and passenger high-back reclining buckets on *G23405 or *G23705 models. Available with (ZX2) Seats, driver and passenger high-back reclining buckets on *G33405 or *G33705 models. Always use safety belts and proper child restraints, even with air bags. Children are safer when properly secured in a rear seat. See the Owner's Manual for more safety information.	–	A[1]
	C60	**Air conditioning**, front manual	S	S
C69		**Air conditioning**, rear 1 - Includes (C36) Heater, rear.	A[1]	–
		Assist handle, front passenger	S	S
		Console, base, includes open storage bin	–	S
BA3		**Console**, includes swing-out storage bin	■	A
ZQ2		**Convenience Package**, Power Door Locks and Windows Package 1 - Includes (AU3) Door locks, power and (A31) Windows, power. (ZQ2) Convenience Package will be included in the (Y3G) Personal use mobility prep package, however (ZQ2) Convenience Package will not appear on the order.	–	A[1]
ZQ3		**Convenience Package**, Tilt-Wheel and cruise control	–	A
		Cupholders, 3, on engine console cover	S	S
		Defogger, side window	S	S

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group SLT is available on CG23405 and CG33405 Models. 2 - Equipment group 1WT is available on CG23405, CG23705, CG33405 and CG33705 Models.	Y3G SLT[1]	Y3H 1WT[2]
C49		**Defogger,** rear-window, electric 1 - Requires (A18) Glass, rear door window, swing-out and (AJ1) Glass, Solar-Ray deep tinted.	A[1]	A[1]
AU3		**Door locks,** power, includes Lock-out Protection 1 - Included with (ZQ2) Convenience Package.	■	A[1]
	BG5	**Floor covering delete**	■	--
	B31	**Floor covering,** Black rubberized vinyl, front only (deletes rear covering behind front seat)	--	■
B38		**Floor covering,** Black rubberized vinyl full length floor covering	--	A
		Headliner, cloth, over driver and passenger	S	S
C36		**Heater,** rear, auxiliary 1 - Included with (C69) Air conditioning, rear.	A[1]	--
		Instrumentation, analog, includes speedometer, odometer with trip odometer, fuel level, voltmeter, engine temperature and oil pressure	S	S
		Key, single, 2-sided	S	S
AU0		**Keyless entry,** remote, includes 2 transmitters and remote panic button	A	--
		Lighting, 2 dome lamps, includes defeat switch and door handle-activated switches	S	S
TR9		**Lighting,** auxiliary, includes reading and underhood lights	■	A
	D31	**Mirror,** inside rearview, manual day/night	S	S
DF5		**Mirror,** inside rearview, electrochromic (light-sensitive auto dimming), 8-point compass and outside temperature indicator 1 - Requires (ZR7) Chrome Appearance Package. Requires (ZW6) Glass, full body window package, fixed.	A[1]	A[1]
		Power outlet, auxiliary, 2 covered, on engine console cover, 12-volt	S	S
	VK5	**Seat,** temporary driver, includes driver and passenger side safety belts and seat risers	■	--
	AR7	**Seats,** front vinyl reclining buckets, includes head restraints 1 - Requires (**W) Interior Trim.	--	S[1]
	ZX2	**Seats,** driver and passenger high-back reclining buckets, adjustable, includes head restraints and vinyl or cloth trim	--	S
ZX1		**Seat,** driver only high-back reclining bucket, adjustable, includes head restraint and vinyl or cloth trim 1 - Deletes passenger side air bag, seat and safety belt. Components cannot be added back later.	--	A[1]
AG1		**Seat adjuster,** power, driver, 6-way (riser only)	A	--
AG2		**Seat adjuster,** power, passenger, 6-way (riser only) 1 - Requires (AG1) Seat adjuster, power driver 6-way (riser only).	A[1]	--
	UXZ	**Sound system,** radio provisions only, includes alarm warning chimes, radio wiring harness, radio antenna and front door speakers (2)	--	S
UM7		**Sound system,** ETR AM/FM stereo, includes seek-and-scan and digital clock. Includes front door speakers (2)	--	A

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group SLT is available on CG23405 and CG33405 Models. 2 - Equipment group 1WT is available on CG23405, CG23705, CG33405 and CG33705 Models.	Y3G SLT[1]	Y3H 1WT[2]
U1C		**Sound system,** ETR AM/FM stereo with CD player, includes seek-and-scan, digital clock, TheftLock and random select. Includes front door speakers (2)	■	A
UB1		**Sound system,** ETR AM/FM stereo with CD and cassette player, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume, TheftLock, random select, auto-reverse cassette and Radio Data System (RDS). Includes front door speakers (2) 1 - Upgradeable to (UC6) Sound system, ETR AM/FM stereo with 6-disc CD changer.	A[1]	--
UC6		**Sound system,** ETR AM/FM stereo with 6-disc CD changer, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume, TheftLock and Radio Data System (RDS). Includes front door speakers (2)	A	--
DT4		**Smoker's Package,** includes ashtray and lighter	A	A
		Steering wheel, steel sleeve column, includes theft-deterrent locking feature, Black	S	S
		Theft-deterrent system, PASSlock	S	S
		Tow/haul mode selector, IP mounted	S	S
	PNC	**Trim panels,** front, side and rear doors	■	--
	DH6	**Visors,** padded, driver and passenger side with cloth trim and dual vanity mirrors, illuminated on passenger side	■	--
		Visors, padded, driver and passenger side	--	S
		Warning tones, headlamp on, key-in-ignition	S	S
	A31	**Windows,** power 1 - Included and only available with (ZQ2) Convenience Package.	■	A[1]

2006 Chevrolet Truck Express Cargo EXTERIOR
Mobility/Paratransit

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Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 5LT is available on CG23405 and CG33405 Models. 2 - Equipment group 1WT is available on CG23405, CG23705, CG33405 and CG33705 Models.	Y3G 5LT[1]	Y3H 1WT[2]
	ZW9	Body, standard	S	S
V37		Bumpers, front and rear, chrome, includes step-pad 1 - Included with (ZR7) Chrome Appearance Package.	■[1]	A[1]
		Bumpers, front and rear, painted Black, includes step-pad 1 - Not available with (ZR7) Chrome Appearance Package	–	S[1]
ZR7		Chrome Appearance Package 1 - Includes (V37) Bumpers, front and rear, chrome, includes step-pad and (V22) Grille, chrome, with dual composite halogen headlamps. (ZR7) Chrome Appearance Package will be included in the (Y3G) Personal use mobility prep package, however (ZR7) Chrome Appearance Package will not appear on the order.	–	A[1]
		Daytime running lamps	S	S
	E24	Door, swing-out passenger side, 60/40 split	S	S
E26		Door, swing-out driver side, 60/40 split 1 - Requires CG23405 or CG33405 Models. Glass package must match right side, if equipped.	A[1]	–
		Door beams, steel-side	S	S
	ZW6	Glass, full body window package, fixed 1 - May upgrade fixed glass to swing-out glass, see (A18) Glass, rear cargo door windows, swing-out. Upgrade requires (A19) Glass, rear side door and rear door window, swing-out.	■[1]	■
	A18	Glass, rear cargo door windows, swing-out 1 - Included with (A19) Glass, rear side door and rear door window, swing-out.	■[1]	■
A19		Glass, rear side door and rear door window, swing-out 1 - Includes (A18) Glass, rear cargo door windows, swing-out.	■[1]	A[1]
		Glass, Solar-Ray light tinted, all windows	S	S
AJ1		Glass, Solar-Ray deep tinted (all windows except light tinted glass on windshield, driver and front passenger) 1 - Requires (A19) Glass, rear side door and rear door window, swing-out.	A[1]	A[1]
	V22	Grille, chrome, with dual composite halogen headlamps 1 - Included and only available with (ZR7) Chrome Appearance Package	■[1]	A[1]
		Grille, Black composite, with single rectangular halogen headlamps 1 - Not available with (ZR7) Chrome Appearance Package	–	S[1]
		Headlamps, single rectangular halogen	–	S
U05		Horn, dual-note	A	A
	VK3	License plate kit, front	S	S

2006 Chevrolet Truck Express Cargo EXTERIOR
Mobility/Paratransit

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 5LT is available on CG23405 and CG33405 Models. 2 - Equipment group 1WT is available on CG23405, CG23705, CG33405 and CG33705 Models.	Y3G 5LT[1]	Y3H 1WT[2]
	DE2	Mirrors, outside rearview, manual folding, Black 1 - If the van is an extended Model (*G**7**), or if the van has no rear windows, then the van will get a flat right side mirror. All other vans will have a convex right side mirror.	–	S[1]
DE5		Mirrors, outside rearview, manual folding, power adjust, heated, Black 1 - If the van is an extended Model (*G**7**), or if the van has no rear windows, then the van will get a flat right side mirror. All other vans will have a convex right side mirror. 2 - Requires (ZQ2) Power Door Locks and Windows Package. If the van is an extended Model (*G**7**), or if the van has no rear windows, then the van will get a flat right side mirror. All other vans will have a convex right side mirror.	■[1]	A[2]
	ZY1	Paint, solid	S	S
XHF		Tires, front LT225/75R16E, all-season, blackwall 1 - Requires *G23405 or *G23705 Model and (C6P) GVWR, 8600 lbs. (3901 kg).	A[1]	A[1]
	YHF	Tires, rear LT225/75R16E, all-season, blackwall 1 - Requires *G23405 or *G23705 Model. Requires (C6P) GVWR, 8600 lbs. (3901 kg) and (XHF) Tires, front LT225/75R16E, all-season, blackwall.	A[1]	A[1]
	ZHF	Tire, spare LT225/75R16E, all-season, blackwall, located at rear underbody of vehicle 1 - Requires *G23405 or *G23705 Model. Requires (C6P) GVWR, 8600 lbs. (3901 kg) and (XHF) Tires, front LT225/75R16E, all-season, blackwall.	A[1]	A[1]
	XHH	Tires, front LT245/75R16E, all-season, blackwall 1 - Standard on the *G23405, *G23705, *G33405 and *G33705 Models	S[1]	S[1]
	YHH	Tires, rear LT245/75R16E, all-season, blackwall 1 - Standard on the *G23405, *G23705, *G33405 and *G33705 Models	S[1]	S[1]
	ZHH	Tire, spare LT245/75R16E, all-season, blackwall, located at rear underbody of vehicle 1 - Standard on the *G23405, *G23705, *G33405 and *G33705 Models	S[1]	S[1]
B46		Trim, rear body-colored halo (replaces standard black panels located above rear tail lamps) 1 - Not included when exterior paint colors (41U) Black, (63U) Sport Red Metallic or (TGK) SEO solid paint are ordered. These colors will receive a Black halo. 2 - Not available with (41U) Black, (63U) Sport Red Metallic or (TGK) SEO solid paint. These colors will receive a Black halo.	■[1]	A[2]
		Wheels, Gray painted, includes steel spare	–	S
P03		Wheels, Gray painted, includes chrome center caps and steel spare	■	A
40P		Wheel finish, painted White. White painted wheels in lieu of standard Gray painted wheels. Includes spare wheel. 1 - Not available with (P03) Wheels, chrome center caps.	–	A[1]
		Wipers, intermittent, front, wet-arm with pulse washers	S	S

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Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 5LT is available on CG23405 and CG33405 Models. 2 - Equipment group 1WT is available on CG23405, CG23705, CG33405 and CG33705 Models.	Y3G 5LT[1]	Y3H 1WT[2]
KL5		**Alternative fuel conversion-ready engine**, includes internal modifications for operation with natural or propane gas 1 - Requires (LQ4) Engine, Vortec 6000 V8 SFI.	A[1]	A[1]
	KG3	**Alternator**, 145 amps	■	■
	UA1	**Battery**, heavy-duty, 800 cold-cranking amps, includes rundown protection and retained accessory power	■	■
		Brakes, 4-wheel antilock, 4-wheel disc	S	S
		Brake/transmission shift interlock, automatic transmission	S	S
V10		**Cold Climate Package**, includes engine block heater	A	A
G80		**Differential**, locking, heavy-duty, rear	A	A
FE9		**Emissions**, Federal requirements	A	A
YF5		**Emissions**, California state requirements	A	A
NE1		**Emissions**, Maine, Massachusetts, New York or Vermont state requirements	A	A
NC7		**Emissions override**, Federal (for vehicles ordered by dealers in Federal emission states with California, New York, Vermont, Massachusetts or Maine emissions; may also be used by dealers in states of California, New York, Vermont, Massachusetts or Maine to order different state-specific emissions) 1 - Requires (YF5) Emissions, California state requirements or (NE1) Emissions, New York, Vermont, Massachusetts or Maine state requirements.	A[1]	A[1]
NB8		**Emissions override**, California, Massachusetts or New York (for vehicles ordered by dealers in states of California, Massachusetts or New York with Federal emissions) 1 - Requires (FE9) Emissions, Federal requirements.	A[1]	A[1]
VCL		**Emissions Certification**, CFF (Clean Fuel Fleet) LEV (Low Emission Vehicle). Option (VCL) should ONLY be ordered to receive the CFF LEV certification. If (VCL) is not ordered, the vehicle will be produced with your normally selected emission system and may not be CFF LEV certified. Products ordered with the (VCL) option may not be certified to California emission requirements. Therefore, they may not be legal for registration in California, New York, Maine, Massachusetts and Vermont. Option (YF5) should be ordered for all vehicles ordered in California. Option (NE1) should be ordered for all vehicles ordered in Maine or Vermont.	--	A
	LQ4	**Engine**, Vortec 6000 V8 SFI (300 HP [223.8 kW] @ 4400 rpm, 360 lb.-ft. [486.6 N-m] @ 4000 rpm) 1 - Includes external engine cooler.	S[1]	S[1]
		Exhaust, aluminized stainless-steel muffler and tailpipe	S	S
		Frame, full-length box ladder-type	S	S

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 5LT is available on CG23405 and CG33405 Models. 2 - Equipment group 1WT is available on CG23405, CG23705, CG33405 and CG33705 Models.	Y3G 5LT[1]	Y3H 1WT[2]
	C6P	**GVWR**, 8600 lbs. (3901 kg) 1 - Standard on *G23*05 when ordered with (LQ4) Engine, Vortec 6000 V8 SFI.	S[1]	S[1]
	C6Y	**GVWR**, 9600 lbs. (4354 kg) 1 - Standard on *G33*05 Model.	S[1]	S[1]
	VXT	**Incomplete vehicle certification**	■	■
		Oil life monitor	S	S
	GT4	**Rear axle**, 3.73 ratio 1 - Standard on all *G23*05 and *G33*05 Models.	S[1]	S[1]
GT5		**Rear axle**, 4.10 ratio	A	A
		Steering, power	S	S
		Suspension, front, independent coil springs and stabilizer bar	S	S
		Suspension, rear, hypoid drive axle with multi-leaf springs	S	S
Z82		**Trailering equipment**, heavy-duty, includes trailering hitch platform and 7-lead wiring harness 1 - Includes (UY7) Trailer wiring, 7-lead harness.	A[1]	A[1]
UY7		**Trailer wiring**, 7-lead harness 1 - Included with (Z82) Trailering equipment, heavy-duty.	A[1]	A[1]
	MT1	**Transmission**, 4-speed automatic, heavy-duty, electronically controlled with overdrive, tow/haul mode and internal transmission oil cooler	S	S
V14		**Transmission oil cooler**, external	A	A

2006 Chevrolet Truck Express Cargo Mobility/Paratransit — ENGINE/AXLE

S = Standard Equipment A = Available – (dashes) = Not Available
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		Transmissions	Axles		GVWR lbs. (kg)	
Model	Engine	MT1 4-Speed Manual	GT4 3.73	GT5 4.10	C6P 8600 (3901)	C6Y 9600 (4354)
2500						
CG23405	LQ4 Vortec 6000 V8 SFI	S	S	A	S	–
CG23705	LQ4 Vortec 6000 V8 SFI	S	S	A	S	–
3500						
CG33405	LQ4 Vortec 6000 V8 SFI	S	S	A	–	S
CG33705	LQ4 Vortec 6000 V8 SFI	S	S	A	–	S

2006 Chevrolet Truck Express Cargo Mobility/Paratransit — COLOR AND TRIM - SOLID PAINT ZY1

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*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Decor Level	Seat Type	Seat Code	Seat Trim	Interior	
				Medium Dark Pewter	Neutral
Y3H	Reclining high-back buckets	AR7	Vinyl	93W	–
Y3G	Temporary Driver's seat	VK5	Vinyl	93W	52W

Exterior Solid Paint	Color Code	Touch Up Paint Number	Interior	
			Medium Dark Pewter	Neutral
NEW! Graystone Metallic	16U	WA-213M	A	–
Dark Blue Metallic	25U	WA-722J	A	A
Black[1]	41U	WA-8555	A	A
Dark Green Metallic	47U	WA-9539	A	A
Summit White	50U	WA-8624	A	A
Silver Birch Metallic	59U	WA-926L	A	–
NEW! Sport Red Metallic[1]	63U	WA-817K	A	A

Above interior trim combinations are the only combinations allowed.
1 - Not available with (B46) Trim, rear body-colored halo

2006 Chevrolet Truck Express Cargo Mobility/Paratransit — COLOR AND TRIM - SEO SOLID PAINT

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*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Decor Level	Seat Type	Seat Code	Seat Trim	Interior	
				Medium Dark Pewter	Neutral
Y3H	Reclining high-back buckets	AR7	Vinyl	93W	--
Y3H	Reclining high-back buckets w/inboard armrests	AS5	Cloth	93G	--
Y3G	Temporary Driver's seat	VK5	Vinyl	93W	52W

Exterior Solid Paint	Color Code	Touch-Up Paint Number	Interior	
			Medium Dark Pewter	Neutral
Yellow	none	WA-5456	A	A
Green	none	WA-7927	A	A
Green	none	WA-7941	A	A
Silver Metallic	none	WA-8867	A	A
Green, Woodland	9V5	WA-9015	A	A
Doeskin Tan	9V9	WA-9403	A	A
Tangier Orange	9W4	WA-9417	A	A
Light Stellar Blue	none	WA-146B	A	A
Orange	none	WA-9419	A	A
Yellow	none	WA-215D	A	A
Wheatland Yellow	9W3	WA-253A	A	A
Yellow	none	WA-259L	A	A
Madrid Red	none	WA-341D	A	A
Yellow	none	WA-478G	A	A
Galaxy Silver Metallic	none	WA-519F	A	A
Bronzemist	none	WA-529F	A	A
NEW! Yellow	none	WA-9414	A	A

NOTE: Exterior SEO solid paints are not available with (B46) Trim, rear body-colored halo.

2006 Chevrolet Truck Express Cargo Mobility/Paratransit — SEO OPTIONS/SHIP THRU CODES

S = Standard Equipment A = Available -- (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

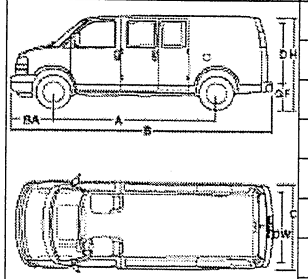
Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group 5LT is available on CG23405 and CG33405 Models. 2 - Equipment group 1WT is available on CG23405, CG23705, CG33405 and CG33705 Models.	Y3G	Y3H
			5LT[1]	1WT[2]
		Interior		
	5L3	**Panel Trim, sides, side and rear cargo door (MSRP = $449.00)** 1 - Included in (Y3H) Paratransit Package. Not available with RPO (YA2) Door, sliding passenger side.	--	■[1]
		Exterior		
5Z5		**Hubcap delete (MSRP = -$10.00 Credit)** Deletes hub caps from standard wheels. 1 - Not available with RPO (P03) Wheels, chrome center caps.	--	A[1]
8X1		**Label, fasten safety belts (MSRP = $2.00)** "Fasten Safety Belts" reminder label on side door window glass.	A	A
9F2		**Mirrors, outside rearview delete (MSRP = -$20.00 Credit)** Deletes the standard outside driver and passenger rear view mirrors. Includes incomplete vehicle documents. 1 - Requires Models G23405, G33405 or G33705.	A[1]	A[1]
9V9		**Paints, solid (MSRP = No Charge),** Doeskin Tan 1 - Requires SEO (TGK) Special Paint, one color. Not available with RPO (B46) Trim, rear body-colored halo.	--	A[1]
9W4		**Paints, solid (MSRP = No Charge),** Tangier Orange 1 - Requires SEO (TGK) Special Paint, one color. Not available with RPO (B46) Trim, rear body-colored halo.	--	A[1]
9W3		**Paints, solid (MSRP = No Charge),** Wheatland Yellow 1 - Requires SEO (TGK) Special Paint, one color. Not available with RPO (B46) Trim, rear body-colored halo.	--	A[1]
9V5		**Paints, solid (MSRP = No Charge),** Woodland Green 1 - Requires SEO (TGK) Special Paint, one color. Not available with RPO (B46) Trim, rear body-colored halo.	--	A[1]
TGK		**Solid Paint** SEO solid paint, one color 1 - Required with any SEO paint selection. Not available with RPO (B46) Trim, rear body-colored halo. May require extended lead time.	--	A[1]
2HI		**Tires, front Goodyear G159 highway tread (MSRP = W/A)** Provides LT225/75R16 (E) 10 ply front tires. 1 - Requires RPO (C6P) GVWR 8600 lbs. (3901 kg.), SEO (3HI) Tires, rear Goodyear G159 and Models CG23405 or CG23705. Also requires SEO (4HI) Spare tire. Not available with RPO (YF5) Emissions, California state requirements, RPO (NE1) Emissions, Massachusetts or Maine state requirements.	A[1]	A[1]

2006 Chevrolet Truck Express Cargo SEO OPTIONS/SHIP THRU CODES
Mobility/Paratransit

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment group SLT is available on CG23405 and CG33405 Models. 2 - Equipment group 1WT is available on CG23405, CG23705, CG33405 and CG33705 Models.	Y3G SLT[1]	Y3H 1WT[2]
3HI		Tires, rear Goodyear G159 highway tread (MSRP = W/A) Provides LT225/75R16 (E) 10 ply rear tires. 1 - Requires SEO (2HI) Tires, front Goodyear G159 and Models CG23405 or CG23705. Also requires SEO (4HI) Spare tire. Not available with RPO (YF5) Emissions, California state requirements, RPO (NE1) Emissions, Massachusetts or Maine state requirements.	A[1]	A[1]
4HI		Tires, spare Goodyear G159 highway tread (MSRP = W/A) Provides LT225/75R16 (E) 10 ply spare tires. 1 - Requires SEO (2HI) Tires, front Goodyear and SEO (3HI) rear Goodyear G159 on Models CG23405 or CG23705.	A[1]	A[1]
Q8C		Tire valve stem caps, air thru (MSRP = $6.00) Air through valve caps on the tire air valves.	A	A
8R3		Tire valve stems, brass (MSRP = $20.00) Brass metal valve stem in lieu of standard. Also included on spare when furnished.	A	A
5G0		Wheels, painted Black (MSRP = $25.00) Black painted wheels in lieu of standard Gray painted wheels. Includes spare wheel. 1 - Not available with RPO (P03) Wheels, chrome center caps.	--	A[1]
		Mechanical		
8E1		Fuel, additional 3 gallons (MSRP = $10.00) 3 gallons of fuel in addition to normal assembly plant fill.	A	A

2006 Chevrolet Truck Express Cargo DIMENSIONS
Mobility/Paratransit

All dimensions in inches (mm) unless otherwise stated.



	Specifications	CG23405 G2500 Regular Wheelbase (Y3G or Y3H)	CG23705 G2500 Extended Wheelbase (Y3H only)	CG33405 G3500 Regular Wheelbase (Y3G or Y3H)	CG33705 G3500 Extended Wheelbase (Y3H only)
A	Wheelbase	135.00 (3429)	155.00 (3937)	135.00 (3429)	155.00 (3937)
B	Overall length	224.10 (5692)	244.10 (6200)	224.10 (5692)	244.10 (6200)
C	Body width	79.40 (2017)	79.40 (2017)	79.40 (2017)	79.40 (2017)
D	Overall height	81.60 (2073)	82.00 (2083)	81.60 (2073)	82.00 (2083)
	Head room, front	40.20 (1021)	40.20 (1021)	40.20 (1021)	40.20 (1021)
	Shoulder room, front	68.80 (1748)	68.80 (1748)	68.80 (1748)	68.80 (1748)
	Hip room, front	65.50 (1664)	65.50 (1664)	65.50 (1664)	65.50 (1664)
	Leg room, front	41.30 (1049)	41.30 (1049)	41.30 (1049)	41.30 (1049)
BA	Front bumper to axle	39.70 (1008)	39.70 (1008)	39.70 (1008)	39.70 (1008)
	Opening height, side door	47.90 (1217)	47.90 (1217)	47.90 (1217)	47.90 (1217)
DH	Opening height, rear door	49.40 (1255)	49.40 (1255)	49.40 (1255)	49.40 (1255)
	Opening width, sliding side door	44.10 (1120)	44.10 (1120)	44.10 (1120)	44.10 (1120)
DW	Opening width, rear door, at belt line	57.00 (1448)	57.00 (1448)	57.00 (1448)	57.00 (1448)
	Step up height, front door	20.10 (511)	19.60 (498)	20.10 (511)	19.60 (498)
	Step up height, side door	20.90 (531)	20.50 (521)	20.90 (531)	20.50 (521)
GF	Ground to top of rear load floor	27.70 (704)	27.30 (693)	27.70 (704)	27.30 (693)
LFL	Load floor length to front seat, at floor	127.80 (3246)	147.80 (3754)	127.80 (3246)	147.80 (3754)
LFL	Load floor length to engine cover, at floor	153.60 (3901)	173.60 (4409)	153.60 (3901)	173.60 (4409)
IWW	Inside width, between wheelhousing	52.70 (1339)	52.70 (1339)	52.70 (1339)	52.70 (1339)
	Cargo area height	51.90	51.90	51.90	51.90

2006 Chevrolet Truck Express Cargo Mobility/Paratransit — DIMENSIONS

All dimensions in inches (mm) unless otherwise stated.

Specifications	CG23405 G2500 Regular Wheelbase (Y3G or Y3H)	CG23705 G2500 Extended Wheelbase (Y3H only)	CG33405 G3500 Regular Wheelbase (Y3G or Y3H)	CG33705 G3500 Extended Wheelbase (Y3H only)
	(1318)	(1318)	(1318)	(1318)
Ground clearance, front	8.60 (218)	8.40 (213)	8.60 (218)	8.40 (213)
Ground clearance, rear	7.60 (193)	8.10 (206)	7.60 (193)	8.10 (206)
Sign panel area	116.5 x 56.7 / (2959) x (1440)	136.5 x 56.7 / (3467) x (1440)	116.5 x 56.7 / (2959) x (1440)	136.5 x 56.7 / (3467) x (1440)

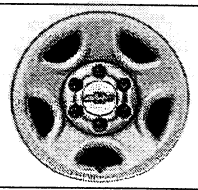
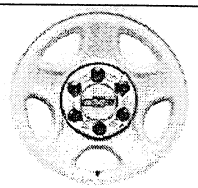
Published dimensions indicated are without optional equipment or accessories. Additional accessories or equipment ordered at the customer's request can result in a minor change in these dimensions.

2006 Chevrolet Truck Express Cargo Mobility/Paratransit — SPECS

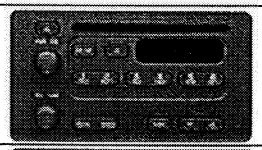
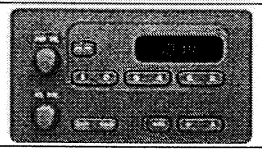
	CG23405 G2500 Regular Wheelbase (Y3G or Y3H)	CG23705 G2500 Extended Wheelbase (Y3H only)	CG33405 G3500 Regular Wheelbase (Y3G or Y3H)	CG33705 G3500 Extended Wheelbase (Y3H only)
Specifications				
Front stabilizer bar diameter, in. (mm)	1.30 (33)	1.30 (33)	1.38 (35)	1.38 (35)
Capacities				
Curb weight, lbs. (kg)	5039 (2286)	5209 (2363)	5461 (2477)	5650 (2563)
Cargo volume, regular, with seats, cu. ft. (liters)	225.1 (6374.8)	--	225.1 (6374.8)	--
Cargo volume, regular, with seats removed, cu. ft. (liters)	267.3 (7569.9)	--	267.3 (7569.9)	--
Cargo volume, extended, with seats, cu. ft. (liters)	--	261.6 (7408.5)	--	261.6 (7408.5)
Cargo volume, extended, with seats removed, cu. ft. (liters)	--	316.8 (8971.8)	--	316.8 (8971.8)
Payload[1], lbs. (kg)	2261 (1026)	2091 (948)	4139 (1877)	3950 (1792)
Gross Vehicle Weight Rating (GVWR), lbs. (kg)	8600 (3901)	8600 (3901)	9600 (4355)	9600 (4355)
Fuel capacity, approximate, gallon (liters)	31 (117)	31 (117)	31 (117)	31 (117)
Seating capacity (front/rear)	2	2	2	2

1. Maximum payload capacity includes weight of driver, passengers, optional equipment and cargo.

2006 Chevrolet Truck Express Cargo Mobility/Paratransit — WHEELS

	**Wheels,** Gray painted, includes steel spare
	P03 **Wheels,** Gray painted, includes chrome center caps and steel spare

2006 Chevrolet Truck Express Cargo Mobility/Paratransit — RADIOS

	U1C **Sound system,** ETR AM/FM stereo with CD player, includes seek-and-scan, digital clock, TheftLock and random select. Includes front door speakers (2)
	UB1 **Sound system,** ETR AM/FM stereo with CD and cassette player, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume, TheftLock, random select, auto-reverse cassette and Radio Data System (RDS). Includes front door speakers (2)
	UC6 **Sound system,** ETR AM/FM stereo with 6-disc CD changer, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume, TheftLock and Radio Data System (RDS). Includes front door speakers (2)
	UM7 **Sound system,** ETR AM/FM stereo, includes seek-and-scan and digital clock. Includes front door speakers (2)

Option Code	Description
2HI	Tires, front Goodyear G159 highway tread (MSRP = W/A)Provides LT225/75R16 (E) 10 ply front tires.
3HI	Tires, rear Goodyear G159 highway tread (MSRP = W/A)Provides LT225/75R16 (E) 10 ply rear tires.
40P	Wheel finish, painted White
4HI	Tires, spare Goodyear G159 highway tread (MSRP = W/A)Provides LT225/75R16 (E) 10 ply spare tires.
5G0	Wheels, painted Black (MSRP = $25.00)
5L3	Panel Trim, sides, side and rear cargo door (MSRP = $449.00)
5Z5	Hubcap delete (MSRP = -$10.00 Credit)
8E1	Fuel, additional 3 gallons (MSRP = $10.00)
8R3	Tire valve stems, brass (MSRP = $20.00)
8X1	Label, fasten safety belts (MSRP = $2.00)
9F2	Mirrors, outside rearview delete (MSRP = -$20.00 Credit)
9V5	Paints, solid (MSRP = No Charge), Woodland Green
9V9	Paints, solid (MSRP = No Charge), Doeskin Tan
9W3	Paints, solid (MSRP = No Charge), Wheatland Yellow
9W4	Paints, solid (MSRP = No Charge), Tangier Orange
A18	Glass, rear cargo door windows, swing-out
A19	Glass, rear side door and rear door window, swing-out
A31	Windows, power
AG1	Seat adjuster, power, driver, 6-way
AG2	Seat adjuster, power, passenger, 6-way
AJ1	Glass, Solar-Ray deep tinted
AJ3	Air bag, frontal, driver side only
AK5	Air bags, frontal, driver and right front passenger
AR7	Seats, front vinyl reclining buckets
AU0	Keyless entry, remote
AU3	Door locks, power
B31	Floor covering, Black rubberized vinyl
B38	Floor covering, Black rubberized vinyl full length floor covering
B46	Trim, rear body-colored halo
BA3	Console, includes swing-out storage bin
BG5	Floor covering delete
C36	Heater, rear
C49	Defogger, rear-window, electric
C60	Air conditioning, front manual
C69	Air conditioning, rear
C6P	GVWR, 8600 lbs. (3901 kg)
C6Y	GVWR, 9600 lbs. (4354 kg)
D31	Mirror, inside rearview
DE2	Mirrors, outside rearview
DE5	Mirrors, outside rearview
DF5	Mirror, inside rearview
DH6	Visors, padded
DT4	Smoker's Package
E24	Door, swing-out passenger side
E26	Door, swing-out driver side
FE9	Emissions, Federal requirements

2006 Chevrolet Truck Express Cargo RPO CODES
Mobility/Paratransit

Option Code	Description
G80	Differential, locking, heavy-duty, rear
GT4	Rear axle, 3.73 ratio
GT5	Rear axle, 4.10 ratio
KG3	Alternator, 145 amps
KL5	Alternative fuel conversion-ready engine
LQ4	Engine, Vortec 6000 V8 SFI
MT1	Transmission, 4-speed automatic, heavy-duty
NB8	Emissions override
NC7	Emissions override, Federal
NE1	Emissions, Maine, Massachusetts, New York or Vermont state requirements
P03	Wheels, Gray painted
PNC	Trim panels
Q8C	Tire valve stem caps, air thru (MSRP = $6.00)
TGK	Solid PaintSEO solid paint, one color
TR9	Lighting, auxiliary
U05	Horn, dual-note
U1C	Sound system, ETR AM/FM stereo with CD player
UA1	Battery, heavy-duty, 800 cold-cranking amps
UB1	Sound system, ETR AM/FM stereo with CD and cassette player
UC6	Sound system, ETR AM/FM stereo with 6-disc CD changer
UM7	Sound system, ETR AM/FM stereo
UXZ	Sound system, radio provisions only
UY7	Trailer wiring, 7-lead harness
V10	Cold Climate Package
V14	Transmission oil cooler, external
V22	Grille, chrome
V37	Bumpers, front and rear, chrome
VCL	Emissions Certification, CFF (Clean Fuel Fleet) LEV (Low Emission Vehicle).
VK3	License plate kit, front
VK5	Seat, temporary driver
VXT	Incomplete vehicle certification
XHF	Tires, front LT225/75R16E, all-season, blackwall
XHH	Tires, front LT245/75R16E, all-season, blackwall
Y3G	Personal use mobility prep package
Y3H	Paratransit Package
YF5	Emissions, California state requirements
YHF	Tires, rear LT225/75R16E, all-season, blackwall
YHH	Tires, rear LT245/75R16E, all-season, blackwall
Z82	Trailering equipment, heavy-duty
ZHF	Tire, spare LT225/75R16E, all-season, blackwall
ZHH	Tire, spare LT245/75R16E, all-season, blackwall
ZQ2	Convenience Package
ZQ3	Convenience Package
ZR7	Chrome Appearance Package
ZW6	Glass, full body window package
ZW9	Body, standard
ZX1	Seat, driver only high-back reclining bucket
ZX2	Seats, driver and passenger high-back reclining buckets
ZY1	Paint, solid

2006 Chevrolet Truck Express Cargo Mobility/Paratransit TRAILERING SPECS

Maximum trailer ratings are calculated assuming standard equipped vehicle, driver and required trailering equipment. The weight of optional equipment, passengers and cargo will reduce the maximum trailer weight your vehicle can tow. 10 to 15% of the trailer weight is the recommended trailer tongue load.

Automatic Transmission Ratings

Model	(LQ4) Vortec 6000 V8 SFI	
	Axle Ratio	Maximum Trailer Weight lbs. (kg)
CG23405	3.73	8300 (3765)
	4.10	10000 (4536)
CG23705	3.73	8100 (3674)
	4.10	10000 (4536)
CG33405	3.73	8200 (3720)
	4.10	10000 (4536)
CG33705	3.73	8000 (3629)
	4.10	10000 (4536)

The wiring system is designed to operate with maximum performance and reliability. Adding electrical accessories to the vehicle for which it was not designed, would case abnormalities in the electrical system.

The electrical system was designed to handle one additional stop/turn light bulb per tail light circuit (one added stop/turn light bulb to the right and left side). It is not recommended to add more than one bulb per circuit as it will result in damage to the electrical system (without optional trailer Towing Wiring). It is highly recommended to order the van with the optional Trailer Wiring, 7-lead harness (UY7) for towing

GCWR For Engine/Rear Axle Ratio Combination with Automatic Transmission

Engine	(GCWR) Gross Combination Weight Ratings lbs. (kg)	
	14000 (6350)	16000 (7258)
(LQ4) Vortec 6000 V8 SFI	3.73	4.10

S = Standard Equipment A = Available – (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 3LT and 4LT are available on CG13405, CH13405, CG23405, CG23705, CG33405 and CG33705 Models.	YF7 3LT[1]	YF7 4LT[1]
	AK5	**Air bags**, frontal, driver and right front passenger 1 - Includes passenger side air bag deactivation switch on Models with (C6P) GVWR, 8600 lbs. (3901 kg) and above. - Always use safety belts and proper child restraints, even with air bags. Children are safer when properly secured in a rear seat. See the Owner's Manual for more safety information.	S[1]	S[1]
		Air bag deactivation switch, passenger side 1 - Requires (C6P) GVWR, 8600 lbs. (3901 kg) or (C6Y) GVWR, 9600 lbs. (4354 kg).	S[1]	S[1]
	C60	**Air conditioning**, front manual 1 - Includes quick connectors for rear air conditioning.	S[1]	S[1]
		Assist handle, front passenger	S	S
	BA3	**Console**, includes swing-out storage bin	S	S
	ZQ2	**Convenience Package**, power windows and door locks 1 - Includes (AU3) Door locks, power.	S[1]	S[1]
	ZQ3	**Convenience Package**, Tilt-Wheel and cruise control	S	S
		Cupholders, 3, on engine console cover	S	S
		Defogger, side window	S	S
	AU3	**Door locks**, power, includes Lock-out Protection 1 - Included with (ZQ2) Convenience Package, power windows and door locks.	S[1]	S[1]
	BG5	**Floor covering delete**	S	S
		Headliner, cloth, over driver and passenger	S	S
		Instrumentation, analog, includes speedometer, odometer with trip odometer, fuel level, voltmeter, engine temperature and oil pressure	S	S
	DF5	**Mirror**, inside rearview, electrochromic (light-sensitive auto dimming), compass and outside temperature indicator 1 - Requires (ZW3) Glass, rear doors and side cargo doors or (ZW6) Glass, full body window package, fixed.	S[1]	S[1]
		Power outlet, auxiliary, 2 covered, on engine console cover, 12-volt	S	S
	VK5	**Seat**, temporary driver, includes driver and passenger side safety belts and seat risers	S	S
	UXZ	**Sound system**, radio provisions only, includes alarm warning chimes, radio wiring harness, radio antenna and front door speakers (2)	S	--
		Steering wheel, steel sleeve column, includes theft-deterrent locking feature	S	--
		Theft-deterrent system, PASSlock	S	S
		Tow/haul mode selector, IP mounted	S	S
	PNC	**Trim panels**, front, side and rear doors	S	S

2006 Chevrolet Truck Express Cargo STANDARD EQUIPMENT
YF7 Upfitter

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 3LT and 4LT are available on CG13405, CH13405, CG23405, CG23705, CG33405 and CG33705 Models.	YF7 3LT[1]	YF7 4LT[1]
	DH6	**Visors**, padded, driver and passenger side with cloth trim and dual vanity mirrors, illuminated on passenger side	S	S
		Warning tones, headlamp on, key-in-ignition	S	S
	A31	**Windows**, power	S	S
	YF7	**Upfitter Package** 1 - Requires an Upfitter Order Type. The Upfitter package is available for ordering through authorized C.Q.A.C.P. manufacturers only.	S[1]	S[1]
	ZW9	**Body**, standard	S	S
	V37	**Bumpers**, front and rear, chrome, includes step-pad	S	S
		Daytime running lamps	S	S
	E24	**Door**, swing-out passenger side, 60/40 split	S	S
		Door beams, steel-side	S	S
	AJ1	**Glass**, Solar-Ray deep tinted (all windows except light tinted glass on windshield, driver and front passenger) 1 - Requires (A19) Glass, rear side door and rear door window, swing-out or (A18) Glass, rear cargo door windows, swing-out.	S[1]	S[1]
	A18	**Glass**, rear cargo door windows, swing-out 1 - Requires (A19) Glass, rear side door and rear door window, swing-out when ordered with (ZW3) Glass, rear doors and side cargo doors or (ZW6) Glass, full body window package, fixed.	S[1]	S[1]
	A19	**Glass**, rear side door and rear door window, swing-out 1 - Requires (A18) Glass, rear cargo door windows, swing-out and (ZW3) Glass, rear doors and side cargo doors, or (ZW6) Glass, full body window package, fixed.	S[1]	S[1]
	ZW3	**Glass**, rear doors and side cargo doors 1 - May upgrade fixed glass to swing-out glass, see (A18) Glass, rear cargo door windows, swing-out. Upgrade requires (A19) Glass, rear side door and rear door window, swing-out.	S[1]	S[1]
		Lamp, underhood, at rear of engine compartment	S	S
	VK3	**License plate kit**, front	S	S
	DE5	**Mirrors**, outside rearview, manual folding, power adjust, heated, Black	S	S
	ZY1	**Paint**, solid	S	S
	XEN	**Tires**, front P235/75R16EL, all-season, blackwall 1 - Standard and only available on **13405 Models with (LU3) Engine, Vortec 4300 V6 MFI. Not available with (LM7) Engine, Vortec 5300 V8 SFI.	S[1]	S[1]
	YEN	**Tires**, rear P235/75R16EL, all-season, blackwall 1 - Standard and only available on **13405 Models with (LU3) Engine, Vortec 4300 V6 MFI. Not available with (LM7) Engine, Vortec 5300 V8 SFI.	S[1]	S[1]
	ZEN	**Tire**, spare P235/75R16EL, all-season, blackwall 1 - Standard and only available on **13405 Models with (LU3) Engine, Vortec 4300 V6 MFI. Not available with (LM7) Engine, Vortec 5300 V8 SFI.	S[1]	S[1]
	XHH	**Tires**, front LT245/75R16E, all-season, blackwall 1 - Standard on the *G23405, *G23705, *G33405 and *G33705 Models.	S[1]	S[1]
	YHH	**Tires**, rear LT245/75R16E, all-season, blackwall 1 - Standard on the *G23405, *G23705, *G33405 and *G33705 Models.	S[1]	S[1]

2006 Chevrolet Truck Express Cargo STANDARD EQUIPMENT
YF7 Upfitter

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 3LT and 4LT are available on CG13405, CH13405, CG23405, CG23705, CG33405 and CG33705 Models.	YF7 3LT[1]	YF7 4LT[1]
	ZHH	**Tire,** spare LT245/75R16E, all-season, blackwall 1 - Standard on the *G23405, *G23705, *G33405 and *G33705 Models.	S[1]	S[1]
	B46	**Trim,** rear body-colored halo (replaces standard Black panel - the panel is located above rear tail lamps) 1 - Not standard when (41U) Black, (63U) Sport Red Metallic or (74U) Victory Red are ordered. These colors will receive a Black halo.	S[1]	S[1]
	P03	**Wheels,** Gray painted, includes chrome center caps and steel spare	S	S
		Wheel, spare, full-size steel	S	S
		Wipers, intermittent, front wet-arm with pulse washers	S	S
	KG3	**Alternator,** 145 amps	S	S
	UA1	**Battery,** heavy-duty, 800 cold-cranking amps, includes rundown protection and retained accessory power	S	S
		Brakes, 4-wheel antilock, 4-wheel disc	S	S
		Brake/transmission shift interlock, automatic transmission	S	S
	LU3	**Engine,** Vortec 4300 V6 MFI (195 hp [145.4 kW] @ 4600 rpm, 260 lb.-ft. [351.0 N-m] @ 2800 rpm) 1 - Standard on *G13405 Model. Reference the Engine/Axle page for availability.	S[1]	S[1]
	LQ4	**Engine,** Vortec 6000 V8 SFI (300 HP [223.8 kW] @ 4400 rpm, 360 lb.-ft. [486.6 N-m] @ 4000 rpm) 1 - Standard on the *G23*05 and *G33*05 Models. Includes external engine cooler. Reference the Engine/Axle page for availability.	S[1]	S[1]
		Exhaust, aluminized stainless-steel muffler and tailpipe	S	S
		Frame, full-length box ladder-type	S	S
	C5Z	GVWR, 7200 lbs. (3266 kg) 1 - Standard on **13405 Model. Reference the Engine/Axle page for availability.	S[1]	S[1]
	C6Y	GVWR, 9600 lbs. (4354 kg) 1 - Standard on *G33*05 Model. Reference the Engine/Axle page for availability.	S[1]	S[1]
	VXT	**Incomplete vehicle certification**	S	S
		Oil life monitor	S	S
	GU6	**Rear axle,** 3.42 ratio 1 - Standard on **13405 Model. Reference the Engine/Axle page for availability.	S[1]	S[1]
		Steering, power	S	S
		Suspension, front, independent coil springs and stabilizer bar 1 - Requires *G***05 Models.	S[1]	S[1]
		Suspension, front, independent torsion bar (computer selected) and stabilizer bar 1 - Requires all-wheel drive Models.	S[1]	S[1]
		Suspension, rear, hypoid drive axle with multi-leaf springs	S	S
		Transfer case, all-wheel drive 1 - Only standard on CH13405.	S[1]	S[1]

2006 Chevrolet Truck Express Cargo STANDARD EQUIPMENT
YF7 Upfitter

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 3LT and 4LT are available on CG13405, CH13405, CG23405, CG23705, CG33405 and CG33705 Models.	YF7 3LT[1]	YF7 4LT[1]
	M30	**Transmission,** 4-speed automatic, electronically controlled with overdrive, tow/haul mode and internal transmission oil cooler 1 - Required and standard when ordered with (LU3) Engine, Vortec 4300 V6 MFI or (LM7) Engine, Vortec 5300 V8 SFI engines. Reference the Engine/Axle page for availability.	S[1]	S[1]
	MT1	**Transmission,** 4-speed automatic, heavy-duty, electronically controlled with overdrive, tow/haul mode and internal transmission oil cooler 1 - Required and standard when ordered with (LQ4) Engine, Vortec 6000 V8 SFI engine. Reference the Engine/Axle page for availability.	S[1]	S[1]

2006 Chevrolet Truck Express Cargo EQUIPMENT GROUPS
YF7 Upfitter

S = Standard Equipment A = Available -- (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

No deletions allowed to Equipment Groups. Additional options may be added; check ordering information section for compatibility.

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 3LT and 4LT are available on CG13405, CH13405, CG23405, CG23705, CG33405 and CG33705 Models.	YF7 3LT[1]	YF7 4LT[1]
AU0		**Keyless entry,** remote, includes 2 transmitters	A	■
UB1		**Sound system,** ETR AM/FM stereo with CD and cassette player, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume, TheftLock, random select, auto-reverse cassette and Radio Data System (RDS)	A	■
NP5		**Steering wheel,** leather-wrapped rim, includes theft-deterrent locking feature	A	■
	V22	**Grille,** chrome, with dual composite halogen headlamps	■	■

2006 Chevrolet Truck Express Cargo EQUIPMENT GROUPS
YF7 Upfitter

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Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 3LT and 4LT are available on CG13405, CH13405, CG23405, CG23705, CG33405 and CG33705 Models.	YF7 3LT[1]	YF7 4LT[1]
AU0		**Keyless entry,** remote, includes 2 transmitters	A	■
UB1		**Sound system,** ETR AM/FM stereo with CD and cassette player, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume, TheftLock, random select, auto-reverse cassette and Radio Data System (RDS)	A	■
NP5		**Steering wheel,** leather-wrapped rim, includes theft-deterrent locking feature	A	■
	V22	**Grille,** chrome, with dual composite halogen headlamps	■	■

ADDITIONAL OPTIONS

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 3LT and 4LT are available on CG13405, CH13405, CG23405, CG23705, CG33405 and CG33705 Models.	YF7 3LT[1]	YF7 4LT[1]
C69		**Air conditioning,** rear **1 - Includes (C36) Heater, rear and (KG3) Alternator, 145 amps.**	A[1]	A[1]
C49		**Defogger,** rear-window, electric	A	A
AU0		**Keyless entry,** remote, includes 2 transmitters	A	■
ZX2		**Seats,** driver and passenger high-back reclining buckets, adjustable, with head restraints and cloth trim **1 - Requires (**G) Interior Trim and (AS5) Seats, front Custom Cloth buckets. Not available on **13405 Models.**	A[1]	A[1]
AS5		**Seats,** front Custom Cloth buckets, includes head restraints and inboard armrests **1 - Requires (**G) Interior Trim and (ZX2) Seats, driver and passenger high-back reclining buckets. Not available on **13405 Models.**	A[1]	A[1]
AG1		**Seat adjuster,** power, driver, 6-way (riser only)	A	A
AG2		**Seat adjuster,** power, passenger, 6-way (riser only) **1 - Requires (AG1) Seat adjuster, power driver 6-way (riser only).**	A[1]	A[1]
DT4		**Smoker's Package,** includes ashtray and lighter	A	A
U1C		**Sound system,** ETR AM/FM stereo with CD player, includes seek-and-scan, digital clock, TheftLock and random select	A	--
UB1		**Sound system,** ETR AM/FM stereo with CD and cassette player, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume, TheftLock, random select, auto-reverse cassette and Radio Data System (RDS)	A	■
UC6		**Sound system,** ETR AM/FM stereo with 6-disc CD changer, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume, TheftLock, random select and Radio Data System (RDS)	A	A

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ADDITIONAL OPTIONS				
Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 3LT and 4LT are available on CG13405, CH13405, CG23405, CG23705, CG33405 and CG33705 Models.	YF7 3LT[1]	YF7 4LT[1]
NP5		**Steering wheel,** leather-wrapped rim, includes theft-deterrent locking feature	A	■
E26		**Door,** swing-out driver side, 60/40 split 1 - Requires C*13405, CG23405 and CG33405 Models.	A[1]	A[1]
ZW6		**Glass,** full body window package, fixed 1 - Not available on the *G33705 model.	A[1]	A[1]
U05		**Horn,** dual-note	A	A
XEP		**Tires,** front P235/75R16EL, all-season, White outlined-letter 1 - Available on C*13405 Models only.	A[1]	A[1]
XHF		**Tires,** front LT225/75R16E, all-season, blackwall 1 - Requires *G23405 or *G23705 Model and (C6P) GVWR, 8600 lbs. (3901 kg).	A[1]	A[1]
PY2		**Wheels,** 4 - chrome-styled steel, includes chrome center caps and steel spare 1 - Requires C*13405 Models.	A[1]	A[1]
PF9		**Wheels,** 4 - 16" x 7" (40.6 cm x 17.8 cm) cast aluminum, includes steel spare 1 - Requires C*13405 Models.	A[1]	A[1]
40P		**Wheel finish,** painted White. White painted wheels in lieu of standard Gray painted wheels. Includes spare wheel. 1 - Not available on C*13405 Models.	A[1]	A[1]
KL5		**Alternative fuel conversion-ready engine,** includes internal modifications for operation with natural or propane gas 1 - Requires (LQ4) Engine, Vortec 6000 V8 SFI.	A[1]	A[1]
V10		**Cold Climate Package,** includes engine block heater	A	A
G80		**Differential,** locking, heavy-duty, rear	A	A
YF5		**Emissions,** California state requirements	A	A
FE9		**Emissions,** Federal requirements	A	A
NE1		**Emissions,** Maine, Massachusetts, New York or Vermont state requirements	A	A
NC7		**Emissions override,** Federal (for vehicles ordered by dealers in Federal emission states with California, New York, Vermont, Massachusetts or Maine emissions; may also be used by dealers in states of California, New York, Vermont, Massachusetts or Maine to order different state-specific emissions) 1 - Requires (YF5) Emissions, California state requirements or (NE1) Emissions, New York, Vermont, Massachusetts or Maine state requirements.	A[1]	A[1]
NB8		**Emissions override,** California, Massachusetts or New York (for vehicles ordered by dealers in states of California, Massachusetts or New York with Federal emissions) 1 - Requires (FE9) Emissions, Federal requirements.	A[1]	A[1]

2006 Chevrolet Truck Express Cargo EQUIPMENT GROUPS
YF7 Upfitter

ADDITIONAL OPTIONS				
Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 3LT and 4LT are available on CG13405, CH13405, CG23405, CG23705, CG33405 and CG33705 Models.	YF7 3LT[1]	YF7 4LT[1]
VCL		**Emissions Certification,** CFF (Clean Fuel Fleet) LEV (Low Emission Vehicle). Option (VCL) should ONLY be ordered to receive the CFF LEV certification. If (VCL) is not ordered, the vehicle will be produced with your normally selected emission system and may not be CFF LEV certified. Products ordered with the (VCL) option may not be certified to California emission requirements. Therefore, they may not be legal for registration in California, New York, Maine, Massachusetts and Vermont. Option (YF5) should be ordered for all vehicles ordered in California. Option (NE1) should be ordered for all vehicles ordered in Maine or Vermont. 1 - Not available on *G23405, *G23705, *G33405, or *G33705 models.	A[1]	A[1]
LM7		**Engine,** Vortec 5300 V8 SFI (295 HP [220 kW] @ 5200 rpm, 335 lb.-ft. [452.25 N-m] @ 4000 rpm) 1 - Available on *G13405 when ordered with (C5Z) GVWR, 7200 lbs. (3266 kg). Standard on *H13405 model. Reference the Engine/Axle page for availability.	A[1]	A[1]
C6P		**GVWR,** 8600 lbs. (3901 kg) 1 - Standard on *G23*05 when ordered with (LQ4) Engine, Vortec 6000 V8 SFI. Reference the Engine/Axle page for availability.	A[1]	A[1]
GT4		**Rear axle,** 3.73 ratio 1 - Available on **13405 when ordered with (LM7) Engine, Vortec 5300 V8 SFI. Standard on all *G23*05 and *G33*05 Models. Reference the Engine/Axle page for availability.	A[1]	A[1]
GT5		**Rear axle,** 4.10 ratio 1 - Available with (LQ4) Engine, Vortec 6000 V8 SFI. Reference the Engine/Axle page for availability.	A[1]	A[1]
Z82		**Trailering equipment,** heavy-duty, includes trailering hitch platform and 7-lead wiring harness 1 - Includes (UY7) Trailer wiring, 7-lead wiring harness.	A[1]	A[1]
UY7		**Trailer wiring,** 7-lead wiring harness 1 - Included with (Z82) Trailering equipment, heavy-duty.	A[1]	A[1]
V14		**Transmission oil cooler,** external 1 - Requires (LQ4) Engine, Vortec 6000 V8 SFI.	A[1]	A[1]

2006 Chevrolet Truck Express Cargo PEG STAIRSTEP
YF7 Upfitter

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Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 3LT and 4LT are available on CG13405, CH13405, CG23405, CG23705, CG33405 and CG33705 Models.	YF7	
			3LT[1]	4LT[1]
	V22	**Grille,** chrome	■	■
AU0		**Keyless entry,** remote		■
UB1		**Sound system,** ETR AM/FM stereo with CD and cassette player		■
NP5		**Steering wheel,** leather-wrapped rim		■

2006 Chevrolet Truck Express Cargo INTERIOR
YF7 Upfitter

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Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 3LT and 4LT are available on CG13405, CH13405, CG23405, CG23705, CG33405 and CG33705 Models.	YF7	
			3LT[1]	4LT[1]
	AK5	**Air bags,** frontal, driver and right front passenger **1 - Includes passenger side air bag deactivation switch on Models with (C6P) GVWR, 8600 lbs. (3901 kg) and above. - Always use safety belts and proper child restraints, even with air bags. Children are safer when properly secured in a rear seat. See the Owner's Manual for more safety information.**	S[1]	S[1]
		Air bag deactivation switch, passenger side **1 - Requires (C6P) GVWR, 8600 lbs. (3901 kg) or (C6Y) GVWR, 9600 lbs. (4354 kg).**	S[1]	S[1]
	C60	**Air conditioning,** front manual **1 - Includes quick connectors for rear air conditioning.**	S[1]	S[1]
C69		**Air conditioning,** rear **1 - Includes (C36) Heater, rear and (KG3) Alternator, 145 amps.**	A[1]	A[1]
		Assist handle, front passenger	S	S
	BA3	**Console,** includes swing-out storage bin	S	S
	ZQ2	**Convenience Package,** power windows and door locks **1 - Includes (AU3) Door locks, power.**	S[1]	S[1]
	ZQ3	**Convenience Package,** Tilt-Wheel and cruise control	S	S
		Cupholders, 3, on engine console cover	S	S
C49		**Defogger,** rear-window, electric	A	A
		Defogger, side window	S	S
	AU3	**Door locks,** power, includes Lock-out Protection **1 - Included with (ZQ2) Convenience Package, power windows and door locks.**	S[1]	S[1]
	BG5	**Floor covering delete**	S	S
		Headliner, cloth, over driver and passenger	S	S
	C36	**Heater,** rear, auxiliary **1 - Included and only available with (C69) Air conditioning, rear.**	A[1]	A[1]
		Instrumentation, analog, includes speedometer, odometer with trip odometer, fuel level, voltmeter, engine temperature and oil pressure	S	S
AU0		**Keyless entry,** remote, includes 2 transmitters	A	■
	DF5	**Mirror,** inside rearview, electrochromic (light-sensitive auto dimming), compass and outside temperature indicator **1 - Requires (ZW3) Glass, rear doors and side cargo doors or (ZW6) Glass, full body window package, fixed.**	S[1]	S[1]
		Power outlet, auxiliary, 2 covered, on engine console cover, 12-volt	S	S
	VK5	**Seat,** temporary driver, includes driver and passenger side safety belts and seat risers	S	S

2006 Chevrolet Truck Express Cargo EXTERIOR
YF7 Upfitter

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Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 3LT and 4LT are available on CG13405, CH13405, CG23405, CG23705, CG33405 and CG33705 Models.	YF7 3LT[1]	YF7 4LT[1]
	YF7	**Upfitter Package** 1 - Requires an Upfitter Order Type. The Upfitter package is available for ordering through authorized C.Q.A.C.P. manufacturers only.	S[1]	S[1]
	ZW9	**Body**, standard	S	S
	V37	**Bumpers**, front and rear, chrome, includes step-pad	S	S
		Daytime running lamps	S	S
	E24	**Door**, swing-out passenger side, 60/40 split	S	S
E26		**Door**, swing-out driver side, 60/40 split 1 - Requires C*13405, CG23405 and CG33405 Models.	A[1]	A[1]
		Door beams, steel-side	S	S
	AJ1	**Glass**, Solar-Ray deep tinted (all windows except light tinted glass on windshield, driver and front passenger) 1 - Requires (A19) Glass, rear side door and rear door window, swing-out or (A18) Glass, rear cargo door windows, swing-out.	S[1]	S[1]
	A18	**Glass**, rear cargo door windows, swing-out 1 - Requires (A19) Glass, rear side door and rear door window, swing-out when ordered with (ZW3) Glass, rear doors and side cargo doors or (ZW6) Glass, full body window package, fixed.	S[1]	S[1]
	A19	**Glass**, rear side door and rear door window, swing-out 1 - Requires (A18) Glass, rear cargo door windows, swing-out and (ZW3) Glass, rear doors and side cargo doors, or (ZW6) Glass, full body window package, fixed.	S[1]	S[1]
	ZW3	**Glass**, rear doors and side cargo doors 1 - May upgrade fixed glass to swing-out glass, see (A18) Glass, rear cargo door windows, swing-out. Upgrade requires (A19) Glass, rear side door and rear door window, swing-out.	S[1]	S[1]
ZW6		**Glass**, full body window package, fixed 1 - Not available on the *G33705 model.	A[1]	A[1]
	V22	**Grille**, chrome, with dual composite halogen headlamps	■	■
U05		**Horn**, dual-note	A	A
		Lamp, underhood, at rear of engine compartment	S	S
	VK3	**License plate kit**, front	S	S
	DE5	**Mirrors**, outside rearview, manual folding, power adjust, heated, Black	S	S
	ZY1	**Paint**, solid	S	S
	XEN	**Tires**, front P235/75R16EL, all-season, blackwall 1 - Standard and only available on **13405 Models with (LU3) Engine, Vortec 4300 V6 MFI. Not available with (LM7) Engine, Vortec 5300 V8 SFI.	S[1]	S[1]

2006 Chevrolet Truck Express Cargo INTERIOR
YF7 Upfitter

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 3LT and 4LT are available on CG13405, CH13405, CG23405, CG23705, CG33405 and CG33705 Models.	YF7 3LT[1]	YF7 4LT[1]
ZX2		**Seats**, driver and passenger high-back reclining buckets, adjustable, with head restraints and cloth trim 1 - Requires (**G) Interior Trim and (AS5) Seats, front Custom Cloth buckets. Not available on **13405 Models.	A[1]	A[1]
AS5		**Seats**, front Custom Cloth buckets, includes head restraints and inboard armrests 1 - Requires (**G) Interior Trim and (ZX2) Seats, driver and passenger high-back reclining buckets. Not available on **13405 Models.	A[1]	A[1]
AG1		**Seat adjuster**, power, driver, 6-way (riser only)	A	A
AG2		**Seat adjuster**, power, passenger, 6-way (riser only) 1 - Requires (AG1) Seat adjuster, power driver 6-way (riser only).	A[1]	A[1]
DT4		**Smoker's Package**, includes ashtray and lighter	A	A
	UXZ	**Sound system**, radio provisions only, includes alarm warning chimes, radio wiring harness, radio antenna and front door speakers (2)	S	--
U1C		**Sound system**, ETR AM/FM stereo with CD player, includes seek-and-scan, digital clock, TheftLock and random select	A	--
UB1		**Sound system**, ETR AM/FM stereo with CD and cassette player, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume, TheftLock, random select, auto-reverse cassette and Radio Data System (RDS)	A	■
UC6		**Sound system**, ETR AM/FM stereo with 6-disc CD changer, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume, TheftLock, random select and Radio Data System (RDS)	A	A
		Steering wheel, steel sleeve column, includes theft-deterrent locking feature	S	--
NP5		**Steering wheel**, leather-wrapped rim, includes theft-deterrent locking feature	A	■
		Theft-deterrent system, PASSlock	S	S
		Tow/haul mode selector, IP mounted	S	S
	PNC	**Trim panels**, front, side and rear doors	S	S
	DH6	**Visors**, padded, driver and passenger side with cloth trim and dual vanity mirrors, illuminated on passenger side	S	S
		Warning tones, headlamp on, key-in-ignition	S	S
	A31	**Windows**, power	S	S

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 3LT and 4LT are available on CG13405, CH13405, CG23405, CG23705, CG33405 and CG33705 Models.	YF7 3LT[1]	YF7 4LT[1]
	YEN	Tires, rear P235/75R16EL, all-season, blackwall 1 - Standard and only available on **13405 Models with (LU3) Engine, Vortec 4300 V6 MFI. Not available with (LM7) Engine, Vortec 5300 V8 SFI.	S[1]	S[1]
	ZEN	Tire, spare P235/75R16EL, all-season, blackwall 1 - Standard and only available on **13405 Models with (LU3) Engine, Vortec 4300 V6 MFI. Not available with (LM7) Engine, Vortec 5300 V8 SFI.	S[1]	S[1]
	XNK	Tires, front P245/75R16, all-season, blackwall 1 - Requires **13405 Models. Standard on *H13405 Model. Included and only available with (LM7) Engine, Vortec 5300 V8 SFI on *G13405 Model.	A[1]	A[1]
	YNK	Tires, rear P245/75R16, all-season, blackwall 1 - Requires **13405 Models. Standard on *H13405 Model. Included and only available with (LM7) Engine, Vortec 5300 V8 SFI on *G13405 Model.	A[1]	A[1]
	ZNK	Tire, spare P245/75R16, all-season, blackwall 1 - Requires **13405 Models. Standard on *H13405 Model. Included and only available with (LM7) Engine, Vortec 5300 V8 SFI on *G13405 Model. Not available with (ZX9) Spare tire delete.	A[1]	A[1]
	XHH	Tires, front LT245/75R16E, all-season, blackwall 1 - Standard on the *G23405, *G23705, *G33405 and *G33705 Models.	S[1]	S[1]
	YHH	Tires, rear LT245/75R16E, all-season, blackwall 1 - Standard on the *G23405, *G23705, *G33405 and *G33705 Models.	S[1]	S[1]
	ZHH	Tire, spare LT245/75R16E, all-season, blackwall 1 - Standard on the *G23405, *G23705, *G33405 and *G33705 Models.	S[1]	S[1]
XEP		Tires, front P235/75R16EL, all-season, White outlined-letter 1 - Available on C*13405 Models only.	A[1]	A[1]
	YEP	Tires, rear P235/75R16EL, all-season, White outlined-letter 1 - Available on C*13405 Models only.	A[1]	A[1]
	ZEP	Tires, spare P235/75R16EL, all-season, White outlined-letter, located at rear underbody of vehicle 1 - Available on C*13405 Models only.	A[1]	A[1]
XHF		Tires, front LT225/75R16E, all-season, blackwall 1 - Requires *G23405 or *G23705 Model and (C6P) GVWR, 8600 lbs. (3901 kg).	A[1]	A[1]
	YHF	Tires, rear LT225/75R16E, all-season, blackwall 1 - Requires *G23405 or *G23705 Model. Requires (C6P) GVWR, 8600 lbs. (3901 kg) and (XHF) Tires, front LT225/75R16E, all-season, blackwall.	A[1]	A[1]
	ZHF	Tire, spare LT225/75R16E, all-season, blackwall 1 - Requires *G23405 or *G23705 Model. Requires (C6P) GVWR, 8600 lbs. (3901 kg) and (XHF) Tires, front LT225/75R16E, all-season, blackwall.	A[1]	A[1]
	B46	Trim, rear body-colored halo (replaces standard Black panel - the panel is located above rear tail lamps) 1 - Not standard when (41U) Black, (63U) Sport Red Metallic or (74U) Victory Red are ordered. These colors will receive a Black halo.	S[1]	S[1]
	P03	Wheels, Gray painted, includes chrome center caps and steel spare	S	S
PY2		Wheels, 4 - chrome-styled steel, includes chrome center caps and steel spare 1 - Requires C*13405 Models.	A[1]	A[1]
PF9		Wheels, 4 - 16" x 7" (40.6 cm x 17.8 cm) cast aluminum, includes steel spare 1 - Requires C*13405 Models.	A[1]	A[1]

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 3LT and 4LT are available on CG13405, CH13405, CG23405, CG23705, CG33405 and CG33705 Models.	YF7 3LT[1]	YF7 4LT[1]
40P		Wheel finish, painted White. White painted wheels in lieu of standard Gray painted wheels. Includes spare wheel. 1 - Not available on C*13405 Models.	A[1]	A[1]
		Wheel, spare, full-size steel	S	S
		Wipers, intermittent, front wet-arm with pulse washers	S	S

2006 Chevrolet Truck Express Cargo MECHANICAL
YF7 Upfitter

S = Standard Equipment A = Available – (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 3LT and 4LT are available on CG13405, CH13405, CG23405, CG23705, CG33405 and CG33705 Models.	YF7 3LT[1]	YF7 4LT[1]
KL5		**Alternative fuel conversion-ready engine**, includes internal modifications for operation with natural or propane gas 1 - Requires (LQ4) Engine, Vortec 6000 V8 SFI.	A[1]	A[1]
	KG3	**Alternator**, 145 amps	S	S
	UA1	**Battery**, heavy-duty, 800 cold-cranking amps, includes rundown protection and retained accessory power	S	S
		Brakes, 4-wheel antilock, 4-wheel disc	S	S
		Brake/transmission shift interlock, automatic transmission	S	S
V10		**Cold Climate Package**, includes engine block heater	A	A
G80		**Differential**, locking, heavy-duty, rear	A	A
YF5		**Emissions**, California state requirements	A	A
FE9		**Emissions**, Federal requirements	A	A
NE1		**Emissions**, Maine, Massachusetts, New York or Vermont state requirements	A	A
NC7		**Emissions override**, Federal (for vehicles ordered by dealers in Federal emission states with California, New York, Vermont, Massachusetts or Maine emissions; may also be used by dealers in states of California, New York, Vermont, Massachusetts or Maine to order different state-specific emissions) 1 - Requires (YF5) Emissions, California state requirements or (NE1) Emissions, New York, Vermont, Massachusetts or Maine state requirements.	A[1]	A[1]
NB8		**Emissions override**, California, Massachusetts or New York (for vehicles ordered by dealers in states of California, Massachusetts or New York with Federal emissions) 1 - Requires (FE9) Emissions, Federal requirements.	A[1]	A[1]
VCL		**Emissions Certification**, CFF (Clean Fuel Fleet) LEV (Low Emission Vehicle). Option (VCL) should ONLY be ordered to receive the CFF LEV certification. If (VCL) is not ordered, the vehicle will be produced with your normally selected emission system and may not be CFF LEV certified. Products ordered with the (VCL) option may not be certified to California emission requirements. Therefore, they may not be legal for registration in California, New York, Maine, Massachusetts and Vermont. Option (YF5) should be ordered for all vehicles ordered in California. Option (NE1) should be ordered for all vehicles ordered in Maine or Vermont. 1 - Not available on *G23405, *G23705, *G33405, or *G33705 models.	A[1]	A[1]
	LU3	**Engine**, Vortec 4300 V6 MFI (195 hp [145.4 kW] @ 4600 rpm, 260 lb.-ft. [351.0 N-m] @ 2800 rpm) 1 - Standard on *G13405 Model. Reference the Engine/Axle page for availability.	S[1]	S[1]

2006 Chevrolet Truck Express Cargo MECHANICAL
YF7 Upfitter

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 3LT and 4LT are available on CG13405, CH13405, CG23405, CG23705, CG33405 and CG33705 Models.	YF7 3LT[1]	YF7 4LT[1]
LM7		**Engine**, Vortec 5300 V8 SFI (295 HP [220 kW] @ 5200 rpm, 335 lb.-ft. [452.25 N-m] @ 4000 rpm) 1 - Available on *G13405 when ordered with (C5Z) GVWR, 7200 lbs. (3266 kg). Standard on *H13405 model. Reference the Engine/Axle page for availability.	A[1]	A[1]
	LQ4	**Engine**, Vortec 6000 V8 SFI (300 HP [223.8 kW] @ 4400 rpm, 360 lb.-ft. [486.6 N-m] @ 4000 rpm) 1 - Standard on the *G23*05 and *G33*05 Models. Includes external engine cooler. Reference the Engine/Axle page for availability.	S[1]	S[1]
		Exhaust, aluminized stainless-steel muffler and tailpipe	S	S
		Frame, full-length box ladder-type	S	S
	C5Z	**GVWR**, 7200 lbs. (3266 kg) 1 - Standard on **13405 Model. Reference the Engine/Axle page for availability.	S[1]	S[1]
C6P		**GVWR**, 8600 lbs. (3901 kg) 1 - Standard on *G23*05 when ordered with (LQ4) Engine, Vortec 6000 V8 SFI. Reference the Engine/Axle page for availability.	A[1]	A[1]
	C6Y	**GVWR**, 9600 lbs. (4354 kg) 1 - Standard on *G33*05 Model. Reference the Engine/Axle page for availability.	S[1]	S[1]
	VXT	**Incomplete vehicle certification**	S	S
		Oil life monitor	S	S
	GU6	**Rear axle**, 3.42 ratio 1 - Standard on **13405 Model. Reference the Engine/Axle page for availability.	S[1]	S[1]
GT4		**Rear axle**, 3.73 ratio 1 - Available on **13405 when ordered with (LM7) Engine, Vortec 5300 V8 SFI. Standard on all *G23*05 and *G33*05 Models. Reference the Engine/Axle page for availability.	A[1]	A[1]
GT5		**Rear axle**, 4.10 ratio 1 - Available with (LQ4) Engine, Vortec 6000 V8 SFI. Reference the Engine/Axle page for availability.	A[1]	A[1]
		Steering, power	S	S
		Suspension, front, independent coil springs and stabilizer bar 1 - Requires *G***05 Models.	S[1]	S[1]
		Suspension, front, independent torsion bar (computer selected) and stabilizer bar 1 - Requires all-wheel drive Models.	S[1]	S[1]
		Suspension, rear, hypoid drive axle with multi-leaf springs	S	S
Z82		**Trailering equipment**, heavy-duty, includes trailering hitch platform and 7-lead wiring harness 1 - Includes (UY7) Trailer wiring, 7-lead wiring harness.	A[1]	A[1]
UY7		**Trailer wiring**, 7-lead wiring harness 1 - Included with (Z82) Trailering equipment, heavy-duty.	A[1]	A[1]
		Transfer case, all-wheel drive 1 - Only standard on CH13405.	S[1]	S[1]

2006 Chevrolet Truck Express Cargo MECHANICAL
YF7 Upfitter

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 3LT and 4LT are available on CG13405, CH13405, CG23405, CG23705, CG33405 and CG33705 Models.	YF7 3LT[1]	YF7 4LT[1]
	M30	Transmission, 4-speed automatic, electronically controlled with overdrive, tow/haul mode and internal transmission oil cooler 1 - Required and standard when ordered with (LU3) Engine, Vortec 4300 V6 MFI or (LM7) Engine, Vortec 5300 V8 SFI engines. Reference the Engine/Axle page for availability.	S[1]	S[1]
	MT1	Transmission, 4-speed automatic, heavy-duty, electronically controlled with overdrive, tow/haul mode and internal transmission oil cooler 1 - Required and standard when ordered with (LQ4) Engine, Vortec 6000 V8 SFI engine. Reference the Engine/Axle page for availability.	S[1]	S[1]
V14		Transmission oil cooler, external 1 - Requires (LQ4) Engine, Vortec 6000 V8 SFI.	A[1]	A[1]

2006 Chevrolet Truck Express Cargo ENGINE/AXLE
YF7 Upfitter

S = Standard Equipment A = Available -- (dashes) = Not Available
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*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

		Transmissions		Axles			GVWR lbs. (kg)		
Model	Engine	M30 4-Speed Automatic	MT1 4-Speed Automatic HD	GU5 3.42	GT4 3.73	GT5 4.10	C5Z 7200 (3266)	C6P 8600 (3901)	C6Y 9600 (4354)
1500									
CG13405	LU3 Vortec 4300 V6 MFI	S	--	S	--	--	S	--	--
	LM7 Vortec 5300 V8 SFI	S	--	S	A	--	S	--	--
CH13405	LM7 Vortec 5300 V8 SFI	S	--	S	A	--	S	--	--
2500									
CG23405	LQ4 Vortec 6000 V8 SFI	--	S	--	S	A	--	S	--
CG23705	LQ4 Vortec 6000 V8 SFI	--	S	--	S	A	--	S	--
3500									
CG33405	LQ4 Vortec 6000 V8 SFI	--	S	--	S	A	--	--	S
CG33705	LQ4 Vortec 6000 V8 SFI	--	S	--	S	A	--	--	S

2006 Chevrolet Truck Express Cargo YF7 Upfitter — COLOR AND TRIM - SOLID PAINT ZY1

S = Standard Equipment A = Available -- (dashes) = Not Available
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For information purposes only. Express Conversion Van Upfitter Package (YF7) available for ordering through authorized C.Q.A.C.P. manufacturers only

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

Decor Level	Seat Type	Seat Code	Seat Trim	Interior	
				Neutral	Medium Dark Pewter
YF7 LT	Temporary driver (riser only)	VK5	Vinyl	52W	93W
YF7 LT	Front reclining high-back buckets with inboard armrests	AS5	Custom Cloth	52G	93G

Exterior Solid Paint	Color Code	Touch Up Paint Number	Interior	
			Neutral	Medium Dark Pewter
Sandstone Metallic	15U	WA-929L	A	--
NEW! Graystone Metallic	16U	WA-213M	--	A
Dark Blue Metallic	25U	WA-722J	A	A
Black[1]	41U	WA-8555	A	A
Dark Green Metallic	47U	WA-9539	A	A
Summit White	50U	WA-8624	A	A
Silver Birch Metallic	59U	WA-926L	--	A
NEW! Sport Red Metallic[1]	63U	WA-817K	A	A
Victory Red[1]	74U	WA-9260	A	A

Above interior trim combinations are the only combinations allowed.
1 - Not available with (B46) Trim, rear body-colored halo.

2006 Chevrolet Truck Express Cargo YF7 Upfitter — COLOR AND TRIM - SEO SOLID PAINT

S = Standard Equipment A = Available -- (dashes) = Not Available
■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable

*Indicates availability of feature on multiple models. For example, it indicates feature availability on 2WD and 4WD Models or Rear wheel drive and All-wheel drive Models.

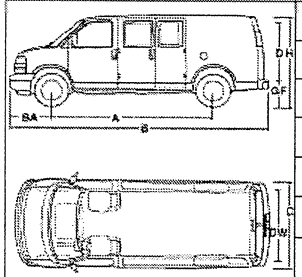
Decor Level	Seat Type	Seat Code	Seat Trim	Interior	
				Neutral	Medium Dark Pewter
Base	Temporary driver (riser only)	VK5	Vinyl	52W	93W

Exterior Solid Paint	Color Code	Touch Up Paint Number	Interior	
			Neutral	Medium Dark Pewter
Yellow	none	WA-5456	A	A
Green	none	WA-7927	A	A
Green	none	WA-7941	A	A
Silver Metallic	none	WA-8867	A	A
Green, Woodland	9V5	WA-9015	A	A
Doeskin Tan	9V9	WA-9403	A	A
Tangier Orange	9W4	WA-9417	A	A
Light Stellar Blue	none	WA-146B	A	A
Orange	none	WA-9419	A	A
Yellow	none	WA-215D	A	A
Wheatland Yellow	9W3	WA-253A	A	A
Yellow	none	WA-259L	A	A
Madrid Red	none	WA-341D	A	A
Yellow	none	WA-478G	A	A
Galaxy Silver Metallic	none	WA-519F	A	A
Bronzemist	none	WA-529F	A	A
NEW! Yellow	none	WA-9414	A	A

NOTE: Exterior SEO solid paints are not available with (B46) Trim, rear body-colored halo

2006 Chevrolet Truck Express Cargo YF7 DIMENSIONS
Upfitter

All dimensions in inches (mm) unless otherwise stated.



	Specifications	CG13405 1500 Regular Wheelbase RWD	CH13405 1500 Regular Wheelbase AWD	CG23405 2500 Regular Wheelbase RWD	CG23705 2500 Extended Wheelbase RWD	CG33405 3500 Regular Wheelbase RWD	CG33705 3500 Extended Wheelbase RWD
A	Wheelbase	135.00 (3429)	135.00 (3429)	135.00 (3429)	155.00 (3937)	135.00 (3429)	155.00 (3937)
B	Overall length	224.10 (5692)	224.10 (5692)	224.10 (5692)	244.10 (6200)	224.10 (5692)	244.10 (6200)
C	Body width	79.40 (2017)	79.40 (2017)	79.40 (2017)	79.40 (2017)	79.40 (2017)	79.40 (2017)
D	Overall height	81.60 (2073)	81.60 (2073)	81.60 (2073)	82.00 (2083)	81.60 (2073)	82.00 (2083)
	Head room, front	40.20 (1021)	40.20 (1021)	40.20 (1021)	40.20 (1021)	40.20 (1021)	40.20 (1021)
	Shoulder room, front	68.80 (1748)	68.80 (1748)	68.80 (1748)	68.80 (1748)	68.80 (1748)	68.80 (1748)
	Hip room, front	65.50 (1664)	65.50 (1664)	65.50 (1664)	65.50 (1664)	65.50 (1664)	65.50 (1664)
	Leg room, front	41.30 (1049)	41.30 (1049)	41.30 (1049)	41.30 (1049)	41.30 (1049)	41.30 (1049)
BA	Front bumper to axle	39.70 (1008)	39.70 (1008)	39.70 (1008)	39.70 (1008)	39.70 (1008)	39.70 (1008)
	Opening height, side door	47.90 (1217)	47.90 (1217)	47.90 (1217)	47.90 (1217)	47.90 (1217)	47.90 (1217)
DH	Opening height, rear door	49.40 (1255)	49.40 (1255)	49.40 (1255)	49.40 (1255)	49.40 (1255)	49.40 (1255)
	Opening width, sliding side door	44.10 (1120)	44.10 (1120)	44.10 (1120)	44.10 (1120)	44.10 (1120)	44.10 (1120)
DW	Opening width, rear door, at belt line	57.00 (1448)	57.00 (1448)	57.00 (1448)	57.00 (1448)	57.00 (1448)	57.00 (1448)
	Step up height, front door	20.10 (511)	20.10 (511)	20.10 (511)	19.60 (498)	20.10 (511)	19.60 (498)
	Step up height, side door	20.90 (531)	20.90 (531)	20.90 (531)	20.50 (521)	20.90 (531)	20.50 (521)
GF	Ground to top of rear load floor	27.70 (704)	27.70 (704)	27.70 (704)	27.30 (693)	27.70 (704)	27.30 (693)
LFL	Load floor length to front seat, at floor	127.80 (3246)	127.80 (3246)	127.80 (3246)	147.80 (3754)	127.80 (3246)	147.80 (3754)
LFL	Load floor length to engine cover, at floor	153.60 (3901)	153.60 (3901)	153.60 (3901)	173.60 (4409)	153.60 (3901)	173.60 (4409)
IWW	Inside width, between wheelhousing	52.70 (1339)	52.70 (1339)	52.70 (1339)	52.70 (1339)	52.70 (1339)	52.70 (1339)
	Cargo area height	51.90 (1318)	51.90 (1318)	51.90 (1318)	51.90 (1318)	51.90 (1318)	51.90 (1318)

2006 Chevrolet Truck Express Cargo YF7 DIMENSIONS
Upfitter

All dimensions in inches (mm) unless otherwise stated.

Specifications	CG13405 1500 Regular Wheelbase RWD	CH13405 1500 Regular Wheelbase AWD	CG23405 2500 Regular Wheelbase RWD	CG23705 2500 Extended Wheelbase RWD	CG33405 3500 Regular Wheelbase RWD	CG33705 3500 Extended Wheelbase RWD
Ground clearance, front	8.60 (218)	8.60 (218)	8.60 (218)	8.40 (213)	8.60 (218)	8.40 (213)
Ground clearance, rear	7.60 (193)	7.60 (193)	7.60 (193)	8.10 (206)	7.60 (193)	8.10 (206)
Sign panel area, side panel	116.5 x 56.7 / (2959) x (1440)	116.5 x 56.7 / (2959) x (1440)	116.5 x 56.7 / (2959) x (1440)	136.5 x 56.7 / (3467) x (1440)	116.5 x 56.7 / (2959) x (1440)	136.5 x 56.7 / (3467) x (1440)

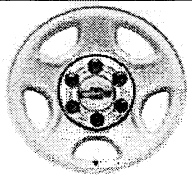
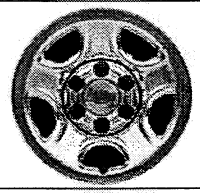
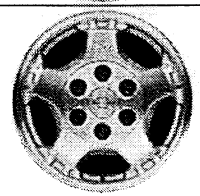
Published dimensions indicated are without optional equipment or accessories. Additional accessories or equipment ordered at the customer's request can result in a minor change in these dimensions.

2006 Chevrolet Truck Express Cargo YF7 SPECS
Upfitter

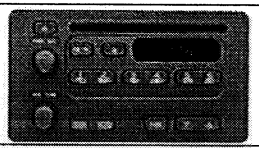
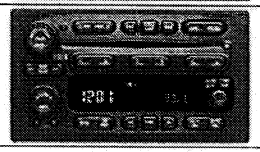
	CG13405 1500 Regular Wheelbase RWD	CG23405 2500 Regular Wheelbase RWD	CG23705 2500 Extended Wheelbase RWD	CG33405 3500 Regular Wheelbase RWD	CG33705 3500 Extended Wheelbase RWD	CH13405 1500 Regular Wheelbase AWD
Specifications						
Front stabilizer bar diameter, in. (mm)	1.30 (33)	1.30 (33)	1.30 (33)	1.38 (35)	1.38 (35)	1.30 (33)
Capacities						
Curb weight, lbs. (kg)	4894 (2220)	--	--	5453 (2473)	5642 (2559)	5179 (2349)
Cargo volume, regular, with seats, cu. ft. (liters)	225.1 (6374.8)	225.1 (6374.8)	--	225.1 (6374.8)	--	225.1 (6374.8)
Cargo volume, extended, with seats, cu. ft. (liters)	--	--	261.6 (7408.5)	--	261.6 (7408.5)	--
Payload[1], lbs. (kg)	2306 (1046)	--	--	4147 (1881)	3958 (1795)	2021 (917)
Gross Vehicle Weight Rating (GVWR), lbs. (kg)	7200 (3266)	8600 (3901)	8600 (3901)	9600 (4355)	9600 (4355)	7200 (3266)
Fuel capacity, approximate, gallon (liters)	31 (117)	31 (117)	31 (117)	31 (117)	31 (117)	31 (117)
Seating capacity (front/rear)	2	2	2	2	2	2

1. Maximum payload capacity includes weight of driver, passengers, optional equipment and cargo.

2006 Chevrolet Truck Express Cargo YF7 WHEELS
Upfitter

	P03 **Wheels,** Gray painted, includes chrome center caps and steel spare
	PY2 **Wheels,** 4 - chrome-styled steel, includes chrome center caps and steel spare
	PF9 **Wheels,** 4 - 16" x 7" (40.6 cm x 17.8 cm) cast aluminum, includes steel spare

2006 Chevrolet Truck Express Cargo YF7 RADIOS
Upfitter

	U1C **Sound system,** ETR AM/FM stereo with CD player, includes seek-and-scan, digital clock, TheftLock and random select
	UB1 **Sound system,** ETR AM/FM stereo with CD and cassette player, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume, TheftLock, random select, auto-reverse cassette and Radio Data System (RDS)
	UC6 **Sound system,** ETR AM/FM stereo with 6-disc CD changer, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume, TheftLock, random select and Radio Data System (RDS)

2006 Chevrolet Truck Express Cargo YF7 RPO CODES
Upfitter

Option Code	Description
40P	Wheel finish, painted White
A18	Glass, rear cargo door windows, swing-out
A19	Glass, rear side door and rear door window, swing-out
A31	Windows, power
AG1	Seat adjuster, power, driver, 6-way
AG2	Seat adjuster, power, passenger, 6-way
AJ1	Glass, Solar-Ray deep tinted
AK5	Air bags, frontal, driver and right front passenger
AS5	Seats, front Custom Cloth buckets
AU0	Keyless entry, remote
AU3	Door locks, power
B46	Trim, rear body-colored halo
BA3	Console, includes swing-out storage bin
BG5	Floor covering delete
C36	Heater, rear
C49	Defogger, rear-window, electric
C5Z	GVWR, 7200 lbs. (3266 kg)
C60	Air conditioning, front manual
C69	Air conditioning, rear
C6P	GVWR, 8600 lbs. (3901 kg)
C6Y	GVWR, 9600 lbs. (4354 kg)
DE5	Mirrors, outside rearview
DF5	Mirror, inside rearview, electrochromic
DH6	Visors, padded
DT4	Smoker's Package
E24	Door, swing-out passenger side
E26	Door, swing-out driver side
FE9	Emissions, Federal requirements
G80	Differential, locking, heavy-duty, rear
GT4	Rear axle, 3.73 ratio
GT5	Rear axle, 4.10 ratio
GU6	Rear axle, 3.42 ratio
KG3	Alternator, 145 amps
KL5	Alternative fuel conversion-ready engine
LM7	Engine, Vortec 5300 V8 SFI
LQ4	Engine, Vortec 6000 V8 SFI
LU3	Engine, Vortec 4300 V6 MFI
M30	Transmission, 4-speed automatic
MT1	Transmission, 4-speed automatic, heavy-duty
NB8	Emissions override
NC7	Emissions override, Federal
NE1	Emissions, Maine, Massachusetts, New York or Vermont state requirements
NP5	Steering wheel, leather-wrapped rim
P03	Wheels, Gray painted
PF9	Wheels, 4 - 16" x 7" (40.6 cm x 17.8 cm) cast aluminum, includes steel spare
PNC	Trim panels
PY2	Wheels, 4 - chrome-styled steel
U05	Horn, dual-note
U1C	Sound system, ETR AM/FM stereo with CD player

2006 Chevrolet Truck Express Cargo YF7 RPO CODES
Upfitter

Option Code	Description
UA1	Battery, heavy-duty, 800 cold-cranking amps
UB1	Sound system, ETR AM/FM stereo with CD and cassette player
UC6	Sound system, ETR AM/FM stereo with 6-disc CD changer
UXZ	Sound system, radio provisions only
UY7	Trailer wiring, 7-lead wiring harness
V10	Cold Climate Package
V14	Transmission oil cooler, external
V22	Grille, chrome
V37	Bumpers, front and rear, chrome
VCL	Emissions Certification, CFF (Clean Fuel Fleet) LEV (Low Emission Vehicle).
VK3	License plate kit, front
VK5	Seat, temporary driver
VXT	Incomplete vehicle certification
XEN	Tires, front P235/75R16EL, all-season, blackwall
XEP	Tires, front P235/75R16EL, all-season, White outlined-letter
XHF	Tires, front LT225/75R16E, all-season, blackwall
XHH	Tires, front LT245/75R16E, all-season, blackwall
XNK	Tires, front P245/75R16, all-season, blackwall
YEN	Tires, rear P235/75R16EL, all-season, blackwall
YEP	Tires, rear P235/75R16EL, all-season, White outlined-letter
YF5	Emissions, California state requirements
YF7	Upfitter Package
YHF	Tires, rear LT225/75R16E, all-season, blackwall
YHH	Tires, rear LT245/75R16E, all-season, blackwall
YNK	Tires, rear P245/75R16, all-season, blackwall
Z82	Trailering equipment, heavy-duty
ZEN	Tire, spare P235/75R16EL, all-season, blackwall
ZEP	Tires, spare P235/75R16EL, all-season, White outlined-letter
ZHF	Tire, spare LT225/75R16E, all-season, blackwall
ZHH	Tire, spare LT245/75R16E, all-season, blackwall
ZNK	Tire, spare P245/75R16, all-season, blackwall
ZQ2	Convenience Package
ZQ3	Convenience Package
ZW3	Glass, rear doors and side cargo doors
ZW6	Glass, full body window package
ZW9	Body, standard
ZX2	Seats, driver and passenger high-back reclining buckets
ZY1	Paint, solid

2006 Chevrolet Truck Express Cargo YF7 TRAILERING SPECS
Upfitter

Maximum trailer ratings are calculated assuming standard equipped vehicle, driver and required trailering equipment. The weight of optional equipment, passengers and cargo will reduce the maximum trailer weight your vehicle can tow. 10 to 15% of the trailer weight is the recommended trailer tongue load.

GCWR For Engine/Rear Axle Ratio Combination with Automatic Transmission				
Engine	(GCWR) Gross Combination Weight Ratings lbs. (kg)			
	9500 (4309)	12000 (5443)	14000 (6350)	16000 (7258)
(LU3) Vortec 4300 V6 MFI	3.42			
(LM7) Vortec 5300 V8 SFI		3.42 /3.73		
(LQ4) Vortec 6000 V8 SFI			3.73	4.10