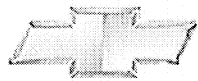


Chevrolet



Tahoe



2006

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Product Information

2006 Chevrolet Tahoe – Full-Size Capability With Full-Size Comfort

Chevy Tahoe enters 2006 with evolutionary changes that lay the groundwork for the next-generation model. Tahoe retains the premium appointments, refined ride and handling, and outstanding levels of safety and capability that helped make it the industry's best-selling full-size SUV in 2004.

The 2006 changes include:

Integrated OnStar/XM Satellite Radio antenna – A single antenna unit replaces the previous two, for a smoother appearance. The new, combined antenna is located on the left-front corner of the roof.

Relocated catalytic converters – The catalytic converters are moved closer to the engine to meet improved emissions performance guidelines.

Standard tire pressure monitoring system – All Tahoe models have a standard GM tire pressure monitoring system, which uses an electronic signal on the driver information center to warn of a low-pressure condition.

Manual park brake adjuster – This new park brake adjuster system offers enhanced performance compared with the previous system.

Vortec 5300 Flex-Fuel V-8 available for all equipment groups – All retail equipment groups can add the Vortec 5300 Flex-Fuel engine, which can operate on a combination of gasoline and E85 ethanol fuel.

Proven powertrains

Tahoe's powertrain lineup includes GM's Vortec 4800 4.8L V-8 as standard, rated at 285 horsepower (213 kw) and 295 lb.-ft. (400 Nm) of torque. Owners seeking even more power and capability can choose the Vortec 5300 5.3L V-8, which generates 295 horsepower (220 kw) and 330 lb.-ft. (447 Nm) of torque. GM's Hydra-Matic 4L60-E four-speed automatic transmission is standard with both engines. Tahoe can tow up to 7,700 pounds (3,493 kg) when properly equipped.

Introduced in '05, Tahoe's all-electric cooling system helps improve fuel economy through reduced parasitic loss on the engine – there is no engine-driven fan. It also enhances air conditioning performance and has the capability of idling with the air conditioning engaged for extended periods in very high ambient temperatures. Also, the electric cooling system is very quiet during operation.

An independent front suspension with torsion bars and a five-link rear suspension with coil springs contribute to Tahoe's direct yet compliant ride and handling characteristics. Tahoe can be equipped with two- or four-wheel drive.

StabiliTrak, GM's electronic stability control system, is standard on vehicles equipped with the Vortec 5300 engine. StabiliTrak helps the driver maintain control in sudden maneuvers, particularly in low traction conditions, in emergency lane changes and during avoidance maneuvers. StabiliTrak assists the vehicle in maintaining the driver's intended path by applying a brake force at any corner of the vehicle independent of the driver's use of the brake pedal.

Interior convenience and flexibility

In addition to its powerful V-8 engines, Tahoe can be reconfigured for a combination of passenger and cargo-carrying chores. Almost 105 cubic feet (2,962L) of cargo space is created when the second row seats are folded forward, creating a flat load floor. An optional third-row bench seat gives Tahoe room for up to nine passengers. Second-row seats provide easy access to the third row. The third-row rear seat has a 50/50 split-fold design to provide a variety of cargo/passenger configurations. The seats can be flipped forward and stowed for more cargo room, or individually and easily removed to create a flat load surface.

Besides a high degree of versatility, every Tahoe has an extensive list of cabin comforts, such as power windows with driver express-down, power door locks, cruise control, tilt-adjustable steering wheel, multi-lingual driver information center, temperature and compass displays integrated into the rearview mirror,

and deep-tint glass aft of the B-pillar. A tri-zone, manually controlled heating, ventilation and air conditioning (HVAC) system is standard, enabling the driver and front passenger to adjust the temperature to their individual comfort levels – up to a 30-degree Fahrenheit (13.9-degree Celsius) difference between the two front zones. Manual rear air conditioning is also standard.

Rear electronic climate control is standard with the optional front system, providing second-row passengers with an automatically controlled temperature setting independent from the two front occupants, creating true tri-zone comfort.

Available exterior mirrors feature power-tilt glass and power folding to protect them in narrow spaces; heating elements that clear frost, snow or ice; left-side electrochromatic glass that automatically dims headlight glare; puddle lights; turn-signal indicators in the glass; and a memory feature. An available power-adjustable camper mirror can be extended to a vehicle width of as much as 106 inches (2,692 mm). Power-adjustable brake and accelerator pedals are standard on LT and Z71 models, and optional on LS models.

Impressive entertainment systems – from an available Bose sound system to a Panasonic DVD Passenger Entertainment System – add to Tahoe's comforts, especially on longer journeys. These systems (except the base fleet radio) feature the next-generation Radio Data System and can interface with services such as the optional XM Satellite Radio (continental U.S. only). Available rear-seat audio controls allow second-row passengers to enjoy a separate audio source from front-seat occupants. An available Bose audio system uses a high-powered six-channel amplifier and an eight-speaker sound system with subwoofer.

Safety and security

Tahoe has a full complement of safety and security features, starting with dual-stage frontal air bags for supplemental protection for front-seat passengers. Dual-stage frontal air bags are designed to help reduce the risk of air bag-induced injury. When the air bag system's control unit detects an impact, it determines whether the crash is severe enough to trigger a deployment, and whether the primary amount of inflation is sufficient. The primary stage alone will deploy in most frontal impacts requiring the supplemental protection of an air bag, while a secondary stage is designed to deploy in more severe frontal collisions.

The Tahoe also has GM's Passenger Sensing System (PSS). PSS uses the latest sensing technology to turn the front passenger air bag on or off. If the sensor system detects an unoccupied front passenger seat or the presence of a smaller occupant, the front passenger air bag is designed to automatically turn off so it would not deploy in the event of a frontal collision. A status indicator on the instrument panel alerts occupants that the passenger air bag is on or off. Even with this system, GM strongly recommends restraining child passengers in an appropriate child seat placed in the second or third row of the vehicle. Never install a rear-facing infant seat in front of an active air bag. GM also recommends that all children 12 and under ride in the rear seat when possible.

Side-impact air bags for the driver and front outboard passenger are available.

Other standard safety and security features include the LATCH (Lower Anchors and Tethers for Children) child-seat attachment system in the rear seats, and GM's PASSlock II theft deterrent system. The LATCH system provides two lower anchors and a top tether anchor to be used to secure a child seat to the vehicle seat structure. These anchorages are designed to make it easier to properly install compatible child safety seats.

Also standard are four-wheel anti-lock disc brakes with Hydroboost, a feature that provides more reserve power assist for braking under specific conditions. The system continues to provide sufficient power assist to stop the vehicle if the engine stalls or is turned off, by using power steering fluid pressure to decrease brake pedal effort.

All Tahoe models come with the OnStar system, including a one-year subscription to the Safe & Sound plan. OnStar-equipped Tahoes feature OnStar dual-mode (analog-digital) equipment. OnStar's digital equipment also includes enhanced hands-free voice recognition capabilities including more intuitive continuous digit dialing and improved voice recognition accuracy. OnStar is the leading provider of in-vehicle safety, security and information services in the United States and Canada . Using the GPS

satellite network and wireless technology, OnStar features core safety services and OnStar Hands-Free Calling that allows drivers to make and receive voice-activated phone calls using an externally mounted antenna for greater reception.

New For 2006

- OnStar and XM Satellite Radio antennas combined into single unit
- Relocated catalytic converters
- Standard tire pressure monitoring system
- Manual-adjust park brake system
- Vortec 5300 Flex-Fuel V-8 available for all equipment groups

Model Lineup

	Engines		Transmission
	Vortec 4800 4.8L V-8	Vortec 5300 5.3L V-8	4 spd-auto (Hydra-Matic 4L60-E)
Tahoe LS 2WD	S	O	S
Tahoe LT	-	S	S
Tahoe LS 4WD	-	S	S

Standard S
 Optional O
 Not available -

Specifications

Overview

Models:	Chevrolet Tahoe LS and LT
Body style / driveline:	4-door sport utility vehicle, front-engine, 2- or 4-wheel drive, half-ton models
Construction:	body on frame
EPA vehicle class:	full-size sport utility vehicle
Manufacturing locations:	Janesville, Wisconsin, and Arlington, Texas
Key competitors:	Ford Expedition, Toyota Sequoia

Engines

	Vortec 4800 4.8L V-8 (LR4)	Vortec 5300 5.3L V-8 (L59)
Application:	std on LS 2WD	std on LT, opt on LS
Type:	4.8L V-8	5.3L V-8
Displacement (cu in / cc):	293 / 4807	325 / 5328
Bore & stroke (in / mm):	3.78 x 3.27 / 96.01 x 83	3.78 x 3.62 / 96.01 x 92
Block material:	cast iron	cast iron
Cylinder head material:	cast aluminum	cast aluminum
Valvetrain:	overhead valves, 2 valves per cylinder	overhead valves, 2 valves per cylinder
Ignition system:	coil near plug ignition, platinum-tipped spark plugs, low-resistance spark plug wires	coil near plug ignition, platinum-tipped spark plugs, low-resistance spark plug wires
Fuel delivery:	sequential fuel injection	sequential fuel injection
Compression ratio:	9.5:1	9.5:1
Horsepower (hp / kw @ rpm):	285 / 213 @ 5200	295 / 220 @ 5200
Torque (lb-ft / Nm @ rpm):	295 / 400 @ 4000	330 / 447 @ 4000
Recommended fuel:	87 octane	87 octane or ethanol capable flex fuel
Maximum engine speed (rpm):	5900	5900
Emissions controls:	3-way catalytic converter, positive crankcase ventilation, evaporative collection system	3-way catalytic converter, positive crankcase ventilation, evaporative collection system
Estimated fuel economy		
(mpg city / hwy / combined):	2WD: 14 / 18 / 16 4WD: 14 / 18 / 16	2WD: 14 / 18 / 16 4WD: 13 / 17 / 15

Transmission

Type:	Hydra-Matic 4L60-E, 4-speed electronic automatic
Gear ratios (:1):	
First:	3.06
Second:	1.63
Third:	1.00
Fourth:	0.70
Reverse:	2.29
Final drive ratio:	3.23:1 – 4.10:1 (optional)

Chassis/Suspension

Front:	independent with torsion bars and stabilizer bar
Rear:	multi-link with coil springs
Traction assist:	full-function standard; Precision Control System
Steering type:	power recirculating ball
Steering ratio:	2WD: 14:1; 4WD 12.7:1
Steering wheel turns, lock-to-lock:	3.2
Turning circle, curb-to-curb (ft / m):	38.3 / 11.7

Brakes

Type:	4-wheel disc, 4-wheel ABS, dual piston calipers with Dynamic Rear Proportioning
Rotor diameter x thickness (in / mm):	front: 12.01 x 1.14 / 305 x 29
	rear : 13 x 1.18 / 330 x 30

Wheels/Tires

Wheel size and type:	16-inch cast aluminum; 17-inch machined cast aluminum
Tires:	P265/70R16 all-season, steel-belted radials P265/70R 17 off-road steel-belted radials

Dimensions**Exterior**

Wheelbase (in / mm):	116 / 2946
Overall length (in / mm):	196.9 / 5001
Overall width (in / mm):	78.9 / 2004
Overall height (in / mm):	2WD: 74.8 / 1900 4WD: 76.7 / 1948
Track (in / mm):	front: 65 / 1651 rear: 66 / 1676
Minimum ground clearance (in/mm):	8.4 / 213
Ground to top of load floor (in/mm):	2WD: 30 / 762 4WD: 31.5 / 800
Approach angle (deg):	25
Departure angle (deg):	20
Curb weight (lb / kg):	2WD: 4828 / 2190 4WD: 5050 / 2291

Interior

	First Row	Second Row	Third Row
Seating capacity (9 total):	2 / 3 (a)	2 / 3 (a)	3 (b)
Head room (in / mm):	40.7 / 1034	39.4 / 1001	37.4 / 950
Leg room (in / mm):	41.3 / 1049	38.6 / 980.4	27.3 / 693.4
Shoulder room (in / mm):	65.2 / 1656	65.1 / 1654	64.4 / 1636
Hip room (in / mm):	61.4 / 1560	61.3 / 1557	49.2 / 1250
Cargo volume (cu ft / L):	104.6 / 2962	63.6 / 1801	16.3 / 462

(a) 3 with bench seats, 2 with optional bucket seats

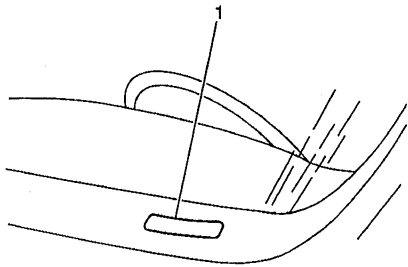
(b) 3 with optional third- row bench seat

Capacities

GVWR: (lb / kg):	2WD: 6500 / 2949 4WD: 6800 / 3085
Payload, base (lb / kg):	2WD: 1525 / 692 4WD: 1608 / 729
Trailer towing maximum (lb / kg):	2WD: 7700 / 3493 4WD: 7800 / 3538
Fuel tank (gal / L):	26 / 98
Engine oil (qt / L):	6 / 5.7
Cooling system (qt / L):	Vortec 4800: 14.4 / 13.6 Vortec 5300: 16.8 / 15.9

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	United States
2	Manufacturer	G	General Motors
3	Make	C	Chevrolet Truck
4	GVWR/Brake System	E F G	6001-7000/Hydraulic 7001-8000/Hydraulic 8001-9000/Hydraulic
5	Truck Line/Chassis Type	C K	4x2 4x4
6	Series	6 7	½ Ton Luxury ¾ Ton Luxury
7	Body Type	3	Four-Door Utility
8	Engine Type	V Z T	4.8L V8 MFI (LR4) 5.3L V8 MFI (L59) 5.3L V8 MFI (LM7)
9	Check Digit	--	Check Digit
10	Model Year	6	2006
11	Plant Location	J R	Janesville Arlington
12-17	Plant Sequence Number	100,001	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:

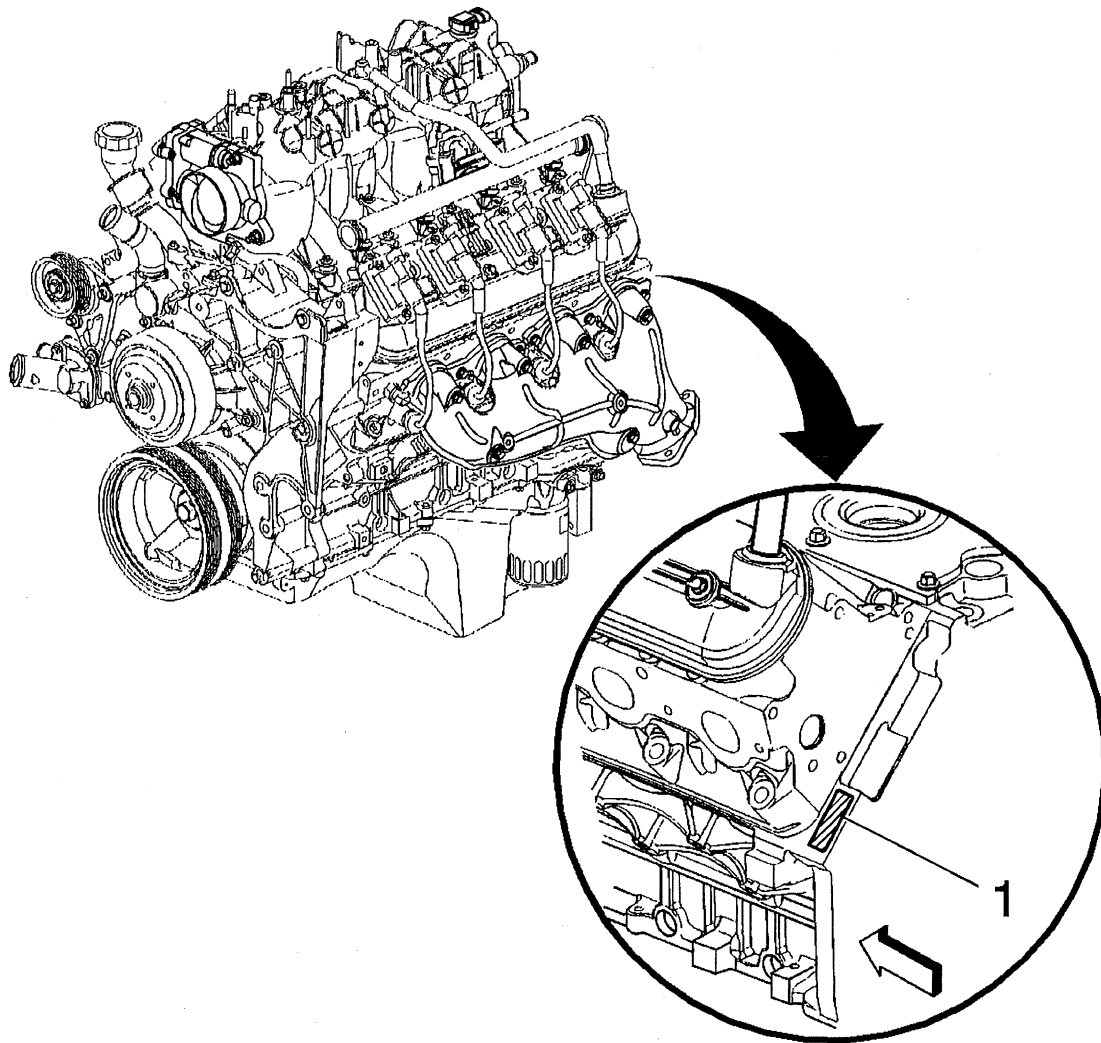
Position	Definition	Character	Description
1	Division	B C	Chevrolet Incomplete Chevrolet Truck
2	Model Year	6	2006
3	Plant Location	J R	Janesville Arlington
4-9	Plant Sequence Number	--	100,001

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	3
2	10
3	11
4-9	12-17

Engine ID and VIN Derivative Location

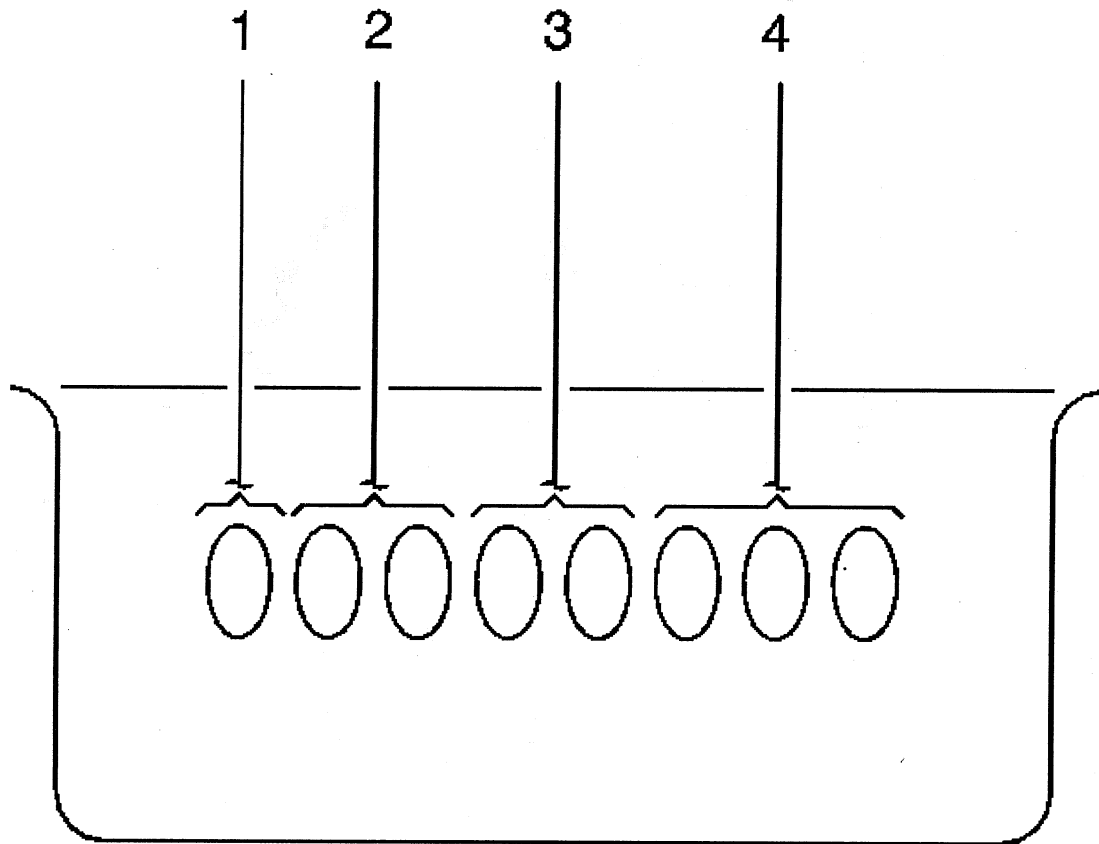
4.8L, 5.3L V-8 Engines



The vehicle identification number (VIN) is located on the left side rear of the engine block (1) and is typically 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 6 digits of the VIN.

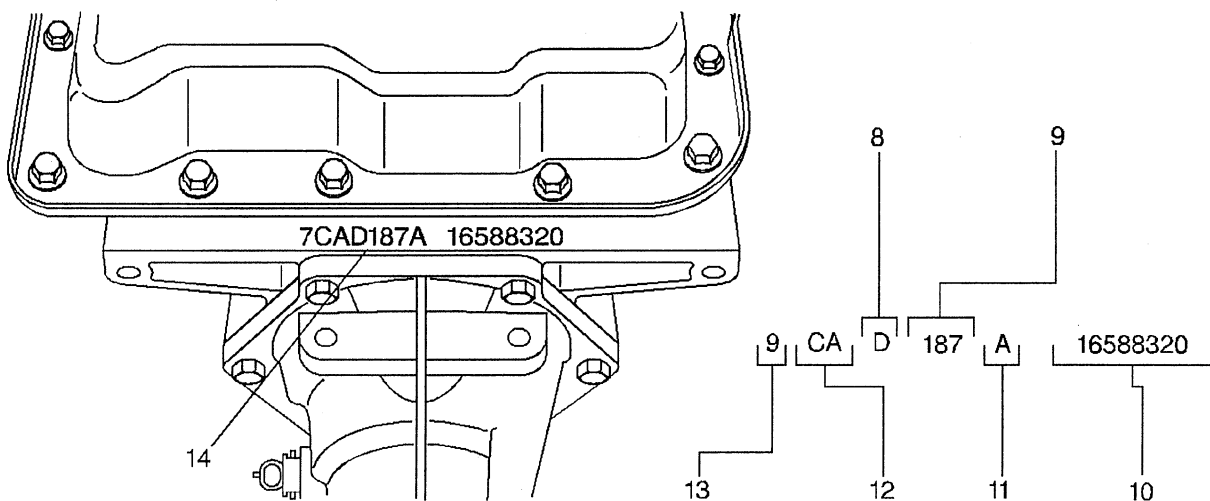
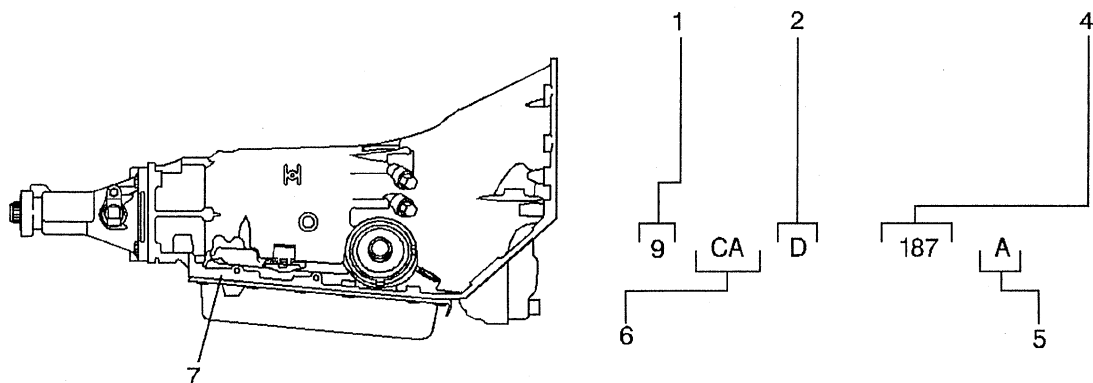
Engine ID Legend



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

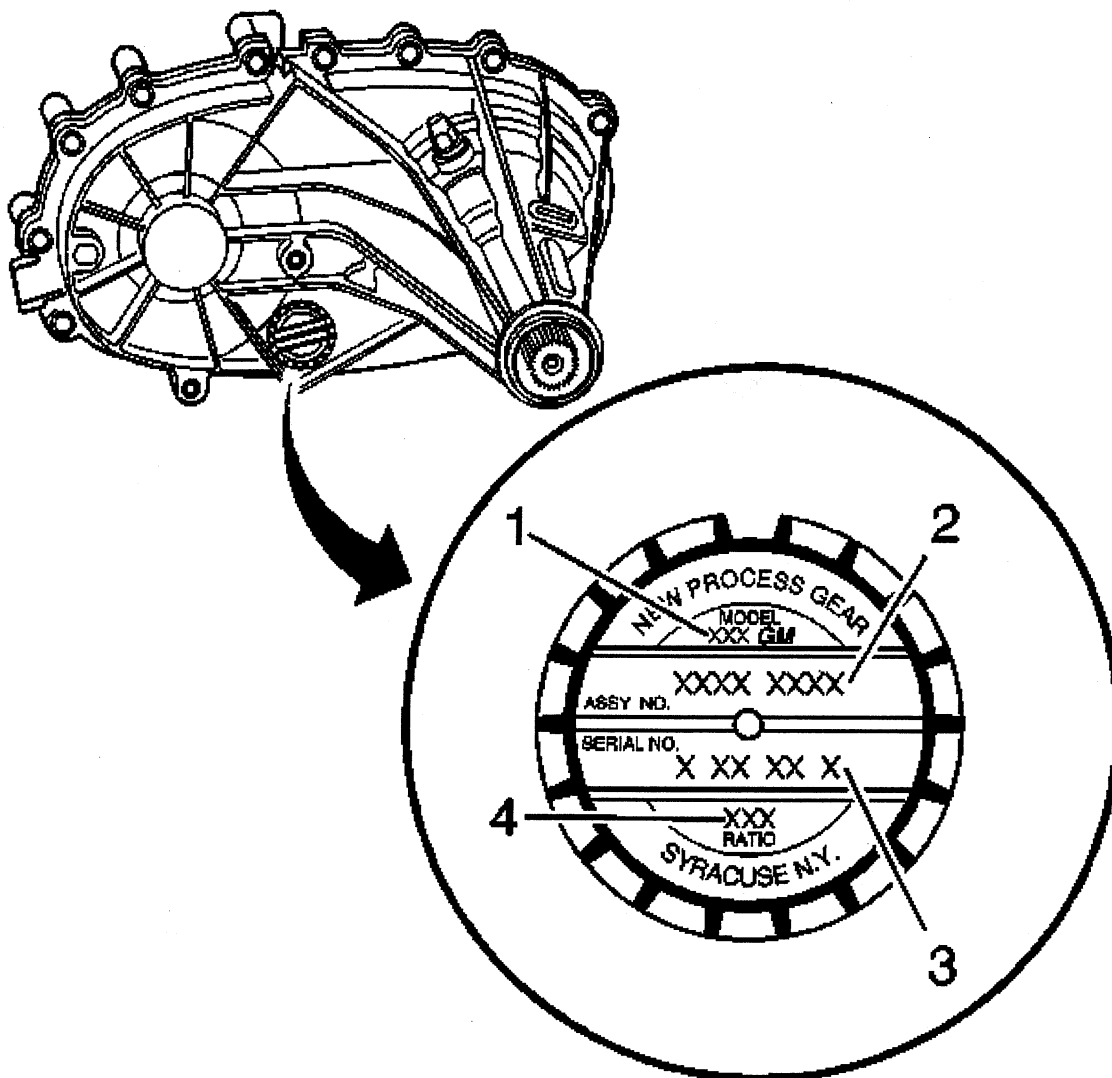
Transmission ID and VIN Derivative Location

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

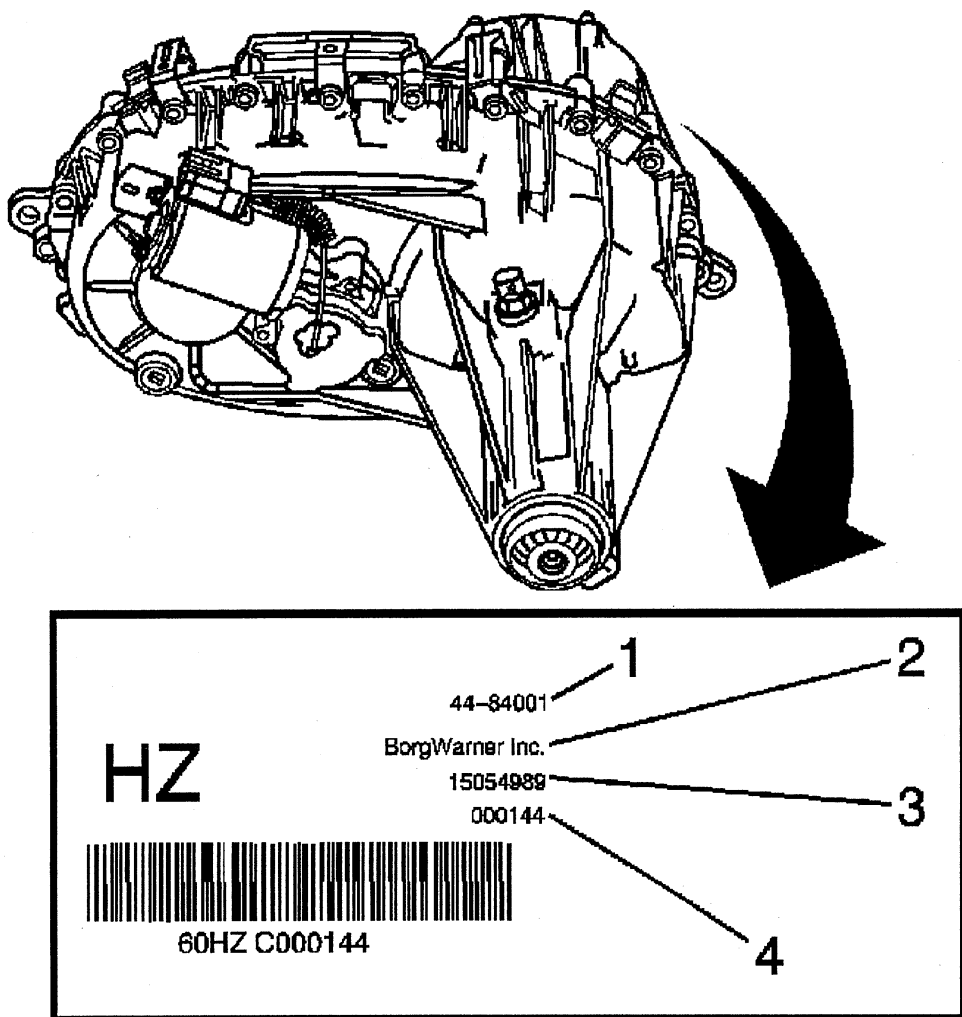
Transfer Case Identification



An identification tag is attached to the rear half of the transfer case. The tag provides the following information:

- 1 Model number (1)
 - A First Digit-1 =Single Speed, 2=Two-Speed
 - B Second Digit-2 = T Utility, 3 =T-Truck, L-Van, 4 or 6 = K Truck and Utility
 - C Third Digit-1 = Manual, 3 = Electric Shift, 6 = Automatic, 9 = All Wheel Drive
- 2 Assembly number (2)
- 3 Serial number (Date and Shift Code) (3)
- 4 Low range reduction ratio (4)

The information on this tag is necessary for servicing the transfer case. If the tag is removed or becomes dislodged during service operations, keep the identification tag with the unit.

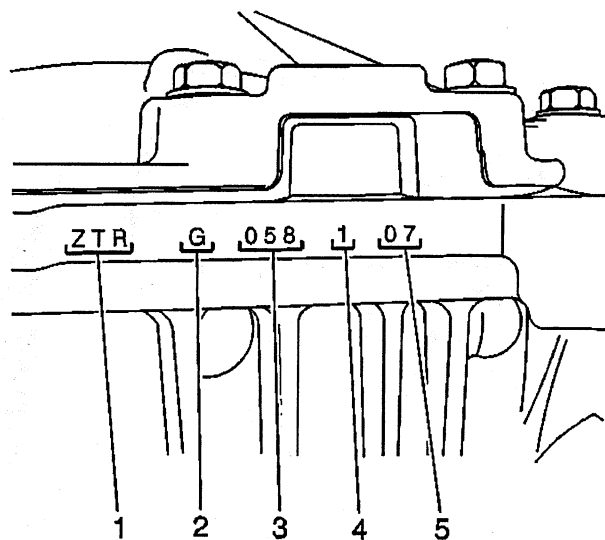


An identification tag is attached to the rear half of the transfer case. The tag provides the following information:

1. Model number
2. Manufacturer
3. Part Number
4. Serial Number

The information on this tag is necessary for servicing the transfer case. If the tag is removed or becomes dislodged during service operations, keep the identification tag with the unit.

Axle Identification – Front



- (1) Broadcast Code
- (2) Supplier Code (G = American Axle)
- (3) Julian Date (Day of Year)
- (4) Shift Built (1 = First Shift; 2 = Second Shift) (Optional for 8.25" and 9.25" axles)
- (5) Hour Built

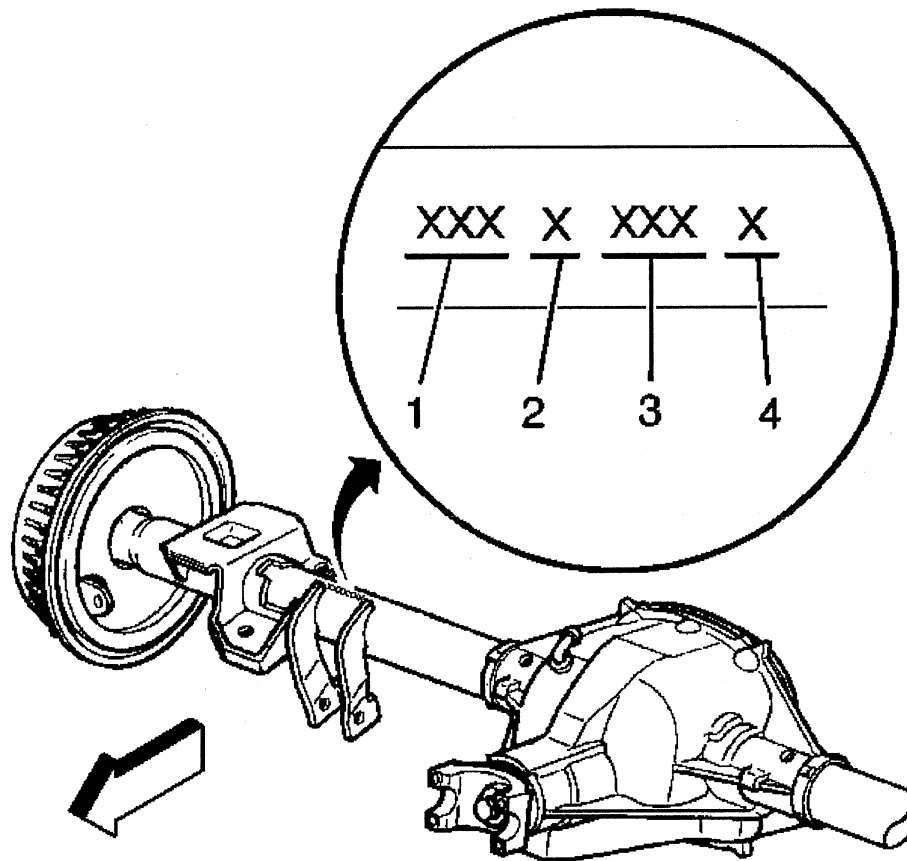
Front axle identification information is stamped on the top of the differential carrier assembly.

The following broadcast codes identifies the axle ratio:

Broadcast Code	Ratio
ZTM	3.08
ZTN, ZTU, ZTW, ZSY, ZA2, ZC2	3.42
ZTP, ZTR, ZTS, ZTX, ZSZ, ZB2, ZD2	3.73
ZTT, ZF2	4.10
ZH2	4.56

The information on the differential carrier assembly is necessary for servicing.

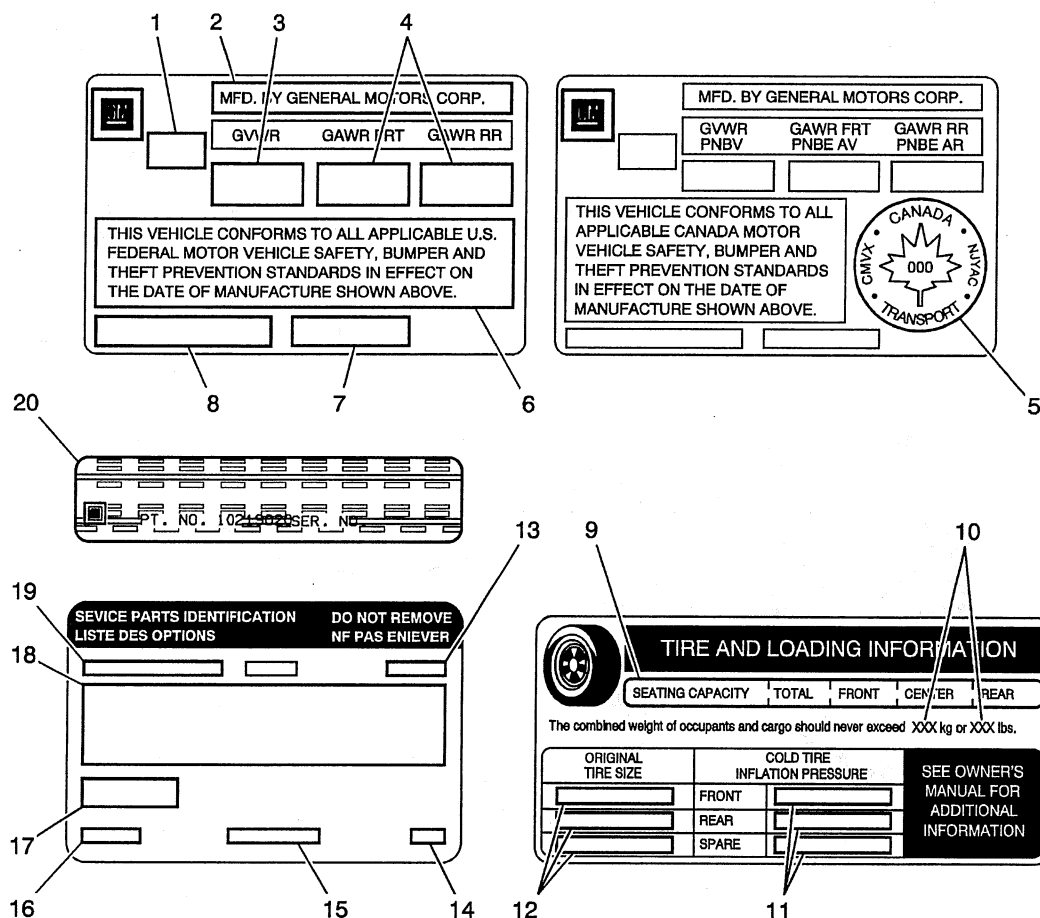
Axle Identification – Rear



- (1) Rear Axle Ratio
- (2) Build Source (C = Buffalo; K = Canada)
- (3) Julian Date
- (4) Shift Built (1 = First; 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 glove compartment. The label is used 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	<p>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.</p> <p>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.</p> <p>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.</p>

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.

RPO	Description
AC6	Window Tinted Deep, Rear, S/D
AE7	Seat FRT Split, Driver, PASS
AG1	Adjuster FRT ST Power, Multi-Directional, Driver
AG2	Adjuster PASS ST Power, Multi-Directional
AJ1	Windows Deep Tint, All Except W/S And DRS
AJ7	Restraint System Seat, Inflatable, Driver and Passenger, Front and Side
AL0	Sensor Indicator Inflatable Restraint, Front Passenger/Child Presence Detector
AL4	Seat RR BKT
ANJ	Window Tinted Export Compliant, Non-Deep
AN3	Seat FRT, Individual (Non BKT)
AP9	Net Convenience
ARL	Plant Code Arlington, TX USA
AS3	Seat RR
AT5	Seat Rear CTR, Folding
AU0	Remote Function Actuation - Keyless Entry - Domestic
AU3	Lock Control Side Door, Electric
AU8	Remote Function Actuation, Specific Frequency
AX4	Restraint Conversion Seat, Manual, European

2006 Chevrolet Tahoe Restoration Kit

RPO	Description
A04	Windshield Tinted, Less Upper Shadeband
A31	Window Power Operated, All Doors
A95	Seat FRT BKT, High Back, Driver and PASS RECL
BAG	Parts Package Export
BG9	Rubber Floor Covering
BPH	Appearance Package Chevrolet Off Road
BS1	Insulation Acoustical PKG
BVE	Side Steps Runningboard
BVF	Side Steps Runningboard, Color Keyed
BVQ	Side Steps Runningboard, Tubular Chrome
BVR	Side Steps Runningboard, Tubular Stainless Steel
BVS	Side Steps Runningboard, Color
BW1	Ornamentation Exterior Rear End
BW2	Molding B/S Deluxe
BX2	Molding B/S Lower, Extra Wide
B30	Floor Covering Carpet
B37	Covering Floor Mat, Front and Rear, Auxiliary
B39	Covering Floor Carpet, Load Floor
B41	Covering Floor Mat, Load Floor
B58	Covering Floor MAT, FRT And RR, Carpeted Insert
B71	Wheel Opening Flares
B85	Molding - Body Side , Exterior, Bright
B96	Molding Wheel Opening
CF5	Roof Sun Glass, Sliding, Electric
CJ2	HVAC System Air Conditioner Front, Auto Temperature Control, Auxiliary Temperature Control
CJ3	HVAC System Air Conditioner Front, Manual Temperature Control, Auxiliary Temperature Control
C25	Wiper System, Rear Window, Intermittent
C36	Heater Auxiliary
C49	Defogger RR Window, Electric
C5H	GVW Rating 6,900 LBS
C5U	GVW Rating 6,800 LBS
C5W	GVW Rating 7,000 LBS
C5Z	GVW Rating 7,200 LBS
C6P	GVW Rating 8,600 LBS/3,900 KG
C69	HVAC System Rear Air Conditioner
C7K	GVW Rating 6,500 lbs
DF5	Mirror, I/S R/V LT Sensitive, Compass, O/S Temp Display
DH6	Mirror, I/S Front Van, LH And RH, Illumination with Sunshade
DK7	Console Roof Interior, Custom
DK8	Console Roof Interior, Deluxe
DL3	Mirror, O/S LH and RH, Remote Control, Electric, Heated, Power Folding, Turn Signal Indicator, Light Sensitive, Color
DL8	Mirror, O/S LH And RH, Remote Control, Electric, Heated
DNR	Equipment, Dealer Installed
DPF	Mirror, O/S LH and RH, Wide Load, Remote Control, Electric, Heated
DR4	Mirror, O/S LH and RH, Remote Control, Electric, Heated, Light Sensitive, Power Folding, Color
DT3	Rear Box Compartment, Stowage
DT4	Ashtray, Cigarette Lighter
DUF	Equipment, Duffle Bag and Daypack
D07	Console Front Compartment, Floor, Custom
D31	Mirror I/S R/V Tilt (Duplicate with D36)

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RPO	Description
D55	Console Front Compartment, Floor
D99	Body Provisions for Special Two Tone Paint
EN4	Cover, Rear Compartment Hard, Rear Compartment, Cargo
EVA	Test DVT, EVAP Emission Requirement
E37	Pickup Box, Inner DK Composite
E52	Body Equipment One Piece Lift Gate With Lift Glass
E95	Cover, Rear Compartment Tonneau, Rear Compartment
FF4	Arm, Left Torsion Bar Spring Adjustment (C)
FF5	Arm, Right Torsion Bar Spring Adjustment (D)
FF6	Arm, Left Torsion Bar Spring Adjustment (E)
FF7	Arm, Right Torsion Bar Spring Adjustment (F)
FK2	Arm, Left Torsion Bar Spring Adjustment (A)
FK3	Arm, Right Torsion Bar Spring Adjustment (B)
FT2	Arm, Left Torsion Bar Spring Adjustment (FT2)
FT3	Arm, Right Torsion Bar Spring Adjustment (FT3)
F0F	Fleet Incentive Tourism Industry Inc. DBA Budget Sales and Leasing
F60	Spring Front Heavy Duty
GND	Sales Package Avalanche Ground Affects
GT4	Axle Rear 3.73 Ratio (DUP With 5 x 1)
GT5	Axle Rear 4.10 Ratio (DUP With GT8)
GU6	Axle Rear 3.42 Ratio
G63	Provisions, Luggage Carrier, Roof
G65	Level Control Manual, Self-Adjusting
G69	Level Control Auto, Air, HD
G80	Axle Positraction Limited Slip
G86	Axle, Limited Slip
JAN	Plant Code Janesville, WI, USA
JE1	Brake System, Europe
JF4	Power Adjustable Pedals
JH2	Brake Hyd Power, Disc/ Disc, 7,200 lb
JH6	Brake Hyd Power, 4-Wheel Disc, 9,900 lb
JL4	Control Active Brake
J81	Indicator Switch, Export
KA6	Rear Seat Heater
KC4	Heavy Duty Engine Oil Cooling
KG3	Generator 145 Amp
KNP	Cooling System Trans, HD
KUP	Throttle Control Electronic
K05	Heater Engine Block
K34	Cruise Control, Automatic, Electronic
K47	Air Cleaner High Capacity
K68	Generator 105 Amp
LM7	Engine Gas, 8 CYL, 5.3L, MFI, Iron, GM
LQ4	Engine Gas, 8 CYC, 6.0L, MFI, Iron, GM
LQ9	Engine Gas, 8 CYC, 6.0L, MFI, Iron, GM, HO
LR4	Engine Gas, 8 Cechy, 4.8L MFI, Iron, GM
L18	Engine Gas, 8 CYL, 8.1L, MFI
L59	Engine Flexible Fuel (Gas/Alc), 8 cyl, 5.3L, MFI, V8, GM
MN8	Transmission Auto 4-Speed, HMD, 4L80-E, Heavy Duty
MSL	Plant Code, Silao, Mexico
MTF	Provisions, Fire Extinguisher Mounting
MT1	Transmission 4-Speed Auto W/Elect Controls H.D. - Hydra-Matic 4L80-E

2006 Chevrolet Tahoe Restoration Kit

RPO	Description
M30	Transmission Auto 4-Speed, HMD, 4L60-E, Electronic
M32	Transmission Auto 4-Speed Hydra-Matic Drive, 4L60-E Electronic, HD
NA1	Emission System GVW less than 8, 500 lb
NA4	Emission System GVW greater than 8, 500 lb
NC1	Emission System California, LEV
NF4	Emission System Clean Fuel Fleet
NF9	Emission System General Unleaded
NK5	Steering Wheel, Standard
NP5	Steering Wheel, Leather Wrapped
NP7	Steering Column, EEC Approved
NP8	New Venture Gear 246
NR3	Transfer Case - All Wheel Drive (AWD), Open Differential, Single Speed
NR4	Transfer Case - 4 Wheel Drive (4WD), Open Differential, 2 Speed
NT3	Emission System EEC 00
NT8	Emission System, Federal, Tier 2 A
NT9	Emission System Federal, Tier 2 Phase-out
NU4	Emission System, California LEV2 Plus
NW7	Traction Control - Electronic
NYS	Steering Four Wheel
NZZ	Skid Plate Off-Road
N12	Exhaust System Rear Exit
N30	Steering Wheel Deluxe
N88	Wheel - New - Aluminum - 17 x 7.5, Premium
N89	Wheel - New - Aluminum - 17 x 7.5, Sport
N93	Wheel - New - Aluminum - 17 x 7.5
N94	Wheel - New - Aluminum - 17 x 7.5, Chrome
PF4	Wheel - Cast - Aluminum- 16 X 7.0
PF9	Wheel - Cast - Aluminum- 16 X 7.0
PY0	Wheel - New - Aluminum - 16 X 6.5
PY2	Wheel 16 X 6.5 Chrome Appearance
P03	Wheel Cover, Var 3
P25	Wheel 17 X 7.5 Aluminum 5-Spoke Premium
P27	Wheel 17 X 7.5 Aluminum 6-Spoke Premium
P96	Equipment Mexican Modified, Mandatory Base Equipment
QAN	Tire All P265/70R 17 - 113S BW R/PE ST TL AL2
QAQ	Tire All P265/70R 17 - 113H BW R/PE ST TL AL2
QAS	Tire All P265/70R 17 - 113S WOL R/PE ST TL AL2
QB5	Wheel 16 x 6.5, Steel
QCP	Tire All P255/70R 16 - 109H BW R/PE ST TL ALS
QIW	Tire All LT245/75R16E R/PE ST TL OOR BL
QIX	Tire All LT265/75R16/C BW R/PE ST TL OOR 120Q
QIZ	Tire All LT245/75R16/E BW R/PE ST TL OOR 120Q
QJM	Tire All P265/70R17 - 113SWOL R/PE ST TL OOR
QJP	Tire All P265/70R17 - 113S BW R/PE ST TL OOR
QLP	Tire All LT2465/75R16/E BW R/PE ST TL ALS 120/116S
QMJ	Tire All P265/70R16 - 111S BW R/PE ST TL AL2
QMK	Tire All P265/70R16 - 111S WOL R/PE ST TL AL2
QNK	Tire All P245/75R16 - 109S BW R/PE ST TL ALS
QNL	Tire All P465/75R16 - 109S WOL R/PE ST TL ALS
RYJ	Shade Cargo Area, Retractable
R4W	Tire Brand All, Michelin
R4Y	Tire Brand All, Goodyear

RPO	Description
R5C	Tire Brand All, Bridgestone
SAF	Lock, Spare Tire, Hoist Shaft
SLT	Equipment Chevrolet LT Sales Package
TL1	Grille Special
TRB	Grille Radiator, Body Color
TRW	Provisions Lamp, Roof Mounted
TR2	Lamp Turn Signal, Enlarged
TR3	Grille Radiator, Body Color w/Chrome Emblem
TR6	Headlamps Control Leveling System, Manual
T2H	Ornamentation Exterior, Export Unique Requirements
T2J	Ornamentation Interior, Export Unique Requirements
T62	Daytime Running Lamp System - Delete
T74	Headlamps Control Automatic, Delay
T78	Headlamps Control - Delete
T79	Rear Fog Lamp
T84	Headlamps, Right Hand Rule of the Road, E Mark
T89	Lamp, Tail and Stop, Export
T9H	Provisions Lamp, Front Fog
T96	Fog Lamps - Front
UB0	Radio AM/FM Stereo, Seek/Scan, CD, Auto Tone, Data System, Clock, ETR
UB1	Radio AM/FM Stereo, Seek/Scan, Auto Reverse Music, Search Cassette, CD, Auto Tone, Data System, Clock, ETR
UC2	Speedometer Instrument, Kilometers and Miles, Kilometer Odometer, Positive Bias
UC6	Radio AM/FM Stereo, Seek/Scan, RDS, Multiple Compact Disc, Auto Tone Control, Clock, ETR
UD4	Alarm, Vehicle Speed, 120 K/H
UD7	Sensor Indicator Rear Parking Assist
UE1	Communication System Vehicle, G.P.S. 1
UG1	Garage Door Opened, Universal
UG2	Garage Door Opened, Universal - Delete
UJ6	Indicator, Low Tire Pressure
UK3	Control Steering Wheel, Accessory
UK6	Radio Control RR Seat And Earphone Jacks
UL2	Frequencies, European
UL4	Frequencies, South America
UL8	Frequencies, Saudi Arabian
UM7	Radio - AM/FM Stereo, Seek/Scan Clock, ETR
UM8	Radio - AM/FM Stereo, Seek/Scan CD, ETR, Navigation Clock
UQ3	Speaker System, Performance Enhanced Audio
UQ7	Speaker System Premium Performance, Enhanced Audio, Bose®
U01	Roof Marker Lamps
U1S	Player Multiple Compac Disc
U19	Speedometer INST, Kilo And Miles, Kilo Odometer
U2K	Digital Audio System S-Band
U34	Display Celsius Temperature
U42	Entertainment Package Rear Seat
U84	Antenna, Body Side Window, Radio
VBX	Language Label Arabic
VB3	Bumper Rear Step, Chrome, Impact Strip
VB5	Bumper Front, Color
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

2006 Chevrolet Tahoe Restoration Kit

RPO	Description
VD1	Provision Options, Europe
VFF	Video Format Region 1, NTSC
VFJ	Video Format Region 2, PAL
VFK	Video Format Region 3, NTSC
VFM	Video Format Region 4, NTSC
VFP	Video Format Region 5, PAL
VGC	Protector Film, Paint Etch Preventive
VG3	Bumper Front Impact Strip
VG8	Vehicle Label, Notice to Buyer
VJ3	Label, Plate ECE Approval and Vehicle Identification
VK3	License Plate, Front Mounting Package
VPH	Vehicle Preparation - Overseas Delivery
VP6	Noise Control
VR4	Trailer Hitch Weight Distributing Platform
VR6	Hook, Tie-Down, Shipping
VR7	Hook, Tow, Second Rear
VT4	Bumper Front Color Keyed
VT5	Bumper Rear Color Keyed
VXS	Vehicle Complete
VZ2	Calibration Speedometer A
VZ3	Label, Mercury Disposal Notification
V1K	Luggage Carrier Bar, Center Cross
V20	Guard Radiator, Grille, Black
V22	Grille Radiator, Chrome
V3A	Guard Radiator, Grille, Gray and Chrome
V43	Rear Bumper Step, Color
V54	Roof Luggage Carrier, Painted
V73	Vehicle Statement, USA/Canada
V76	Front Towing Hook
V78	Vehicle Statement - Delete
V87	Vehicle Statement, Gulf States Organization
V92	Trailer Provisions
V98	Factory Delivery Processing
WBH	Merchandised Package, Base Decor
WV9	Merchandised Package, Value Leader
XAN	Tire Front P265/70R17-113S BW R/PE ST TL AL2
XAQ	Tire Front P265/70R17-113H BW R/PE ST TL AL2
XAS	Tire Front P265/70R17-113S WOL R/PE ST TL AL2
XCP	Tire Front P255/70R17-109H BW R/PE ST TL ALS
XGK	Tire Front LT245/75R16/E BW R/PE ST TL OOR 120Q
XHH	Tire Front LT245/75R16/E BW R/PE ST TL ALS 120Q
XHS	Tire Front P265/75R16-114H BW R/PE ST TL AT A Temp
XJM	Tire Front P265/70R17-113S WOL R/PE ST TL OOR
XJP	Tire Front P265/70R17-113S BW R/PE ST TL OOR
XLP	Tire Front LT245/75R16/E BW R/PE ST TL ALS 120/116S
XMJ	Tire Front P265/70R16-111S BW R/PE ST TL AL2
XMK	Tire Front P265/70R16-111S WOL R/PE ST TL AL2
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 Plate Chevrolet
YAN	Tire Rear P265/70R17-113S BW R/PE ST TL AL2
YAQ	Tire Rear P265/70R17-113H BW R/PE ST TL AL2

RPO	Description
YAS	Tire Rear P265/70R17-113S WOL R/PE ST TL AL2
YCP	Tire Rear P255/70R16-109H BW R/PE ST TL ALS
YE9	Convenience Package Comfort and Decor Level #3
YGK	Tire Rear LT245/75R16/E BW R/PE ST TL OOR 120Q
YHH	Tire Rear LT245/75R16/E BW R/PE ST TL ALS 120Q
YHS	Tire Rear P265/75R16-114H BW R/PE ST TL AT A Temp Rating
YJM	Tire Rear P265/70R17-113S WOL R/PE ST TL OOR
YJP	Tire Rear P265/70R17-113S BW R/PE ST TL OOR
YLP	Tire Rear LT245/75R16/E BW R/PE ST TL ALS 120/116S
YMJ	Tire Rear P265/70R16-111S BW R/PE ST TL AL2
YMK	Tire Rear P265/70R16-111S WOL R/PE ST TL AL2
YNK	Tire Rear P245/75R16-109S BW R/PE ST TL ALS
YNL	Tire Rear P245/75R16-109S WOL R/PE ST TL ALS
Y91	Merchandised PKG Luxury Edition
Y92	Merchandised PKG Special Edition
ZCP	Tire Spare P255/70R16-109H BW R/PE ST TL ALS
ZGC	Tire Spare P265/75R16-114S BW R/PE ST TL AT
ZGK	Tire Spare LT245/75R16/E BW R/PE ST TL OOR 120Q
ZHH	Tire Spare LT245/75R16/E BW R/PE ST TL ALS 120Q
ZHS	Tire Spare P265/75R16-114H BW R/PE ST TL AT A Temp Rating
ZLP	Tire Spare LT245/75R16/E BW R/PE ST TL ALS 120/116S
ZMJ	Tire Spare P265/70R16-111S BW R/PE ST TL AL2
ZMK	Tire Spare P265/70R16-111S WOL R/PE ST TL AL2
ZM9	Sales Package Comfort & Convenience
ZNK	Tire Spare P245/75R16-109S BW R/PE ST TL ALS
ZNL	Tire Spare P245/75R16-109S WOL R/PE ST TL ALS
ZQ1	Chassis Package Smooth Ride
ZW7	Chassis Package Premium Smooth Ride
ZW9	Base Body or Chassis
ZY1	Color Combination, Solid
Z49	Export Canadian Modified, Mandatory Base Equipment
Z5X	Mirror Provisions, Arabic Language
Z55	Chassis Package Bi-State, Real Time Damping
Z66	Appearance Package Premium Ride Suspension
Z71	Chassis Package Off Road
Z75	Conversion Name Plate Cadillac
Z82	Trailer Provisions Special Equipment, H. D.
Z85	Chassis Package Increased Capacity
Z88	Conversion Name PLT GMC

Technical Information

Maintenance and Lubrication

Capacities - Approximate Fluid

Application	Capacities	
	Metric	English
Axle Capacities		
Front Drive Axle (8.25")	1.43 L	1.51 qt
Front Drive Axle (9.25")	1.73 L	1.83 qt
Rear Drive Axle (8.6")	2.03 L	2.15 qt
Rear Drive Axle (9.5")	2.6 L	2.75 qt
Rear Drive Axle (9.75")	2.84 L	3 qt
Rear Drive Axle (10.5")	2.6 L	2.75 qt
Cooling System - Automatic		
4800 V8**	15.8 L	16.7 qt
5300 V8**	15.8 L	16.7 qt
Engine Oil with Filter		
4800 V8, 5300 V8	5.7 L	6 qt
Fuel Tank		
Tahoe	98.4 L	26 gal
Transfer Case		
Borg Warner 4481 (NR3)	1.4 L	1.5 qt
New Venture Gear 246 (NP8)	1.9 L	2 qt
Transmission		
4L60-E 4 Spd. HMD Auto Pan Removal	4.7 L	5 qt
4L60-E 4 Spd. HMD Auto After Complete Overhaul	10.6 L	11.2 qt
4L80-E Auto (MT1) Pan Removal	7.3 L	7.7 qt
4L80-E Auto (MT1) After Complete Overhaul	12.8 L	13.5 qt
* Engine Fan Driven Cooling System		
** Electric Cooling Fan System		
Add 2 L (2.1 qt) if equipped with rear heating for all engines.		

Maintenance Items

Part	GM Part Number	ACDelco Part Number
Engine Air Cleaner /Filter		
High Capacity Filter	25313349	A1518C
Standard Filter	25313348*	A1519C*
Oil Filter		
4800 V8; 5300 V8	88984215	PF46
Spark Plugs		
4800 V8; 5300 V8	12571164	41-985
Wiper Blades (ITTA Type)		
Front - 22 inches (56.0 cm)	15153642	--
Rear - 14 inches (35.0 cm)	22121339	--
* A1518C high-capacity air cleaner filter may be substituted.		

Fluid and Lubricant Recommendations

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.
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 Axle (Four-Wheel Drive)	SAE 80W-90 Axle Lubricant (GM Part No. U.S. 1052271, in Canada 10950849).
Front Axle (All-Wheel Drive)	SAE 75W-90 Synthetic Axle Lubricant (GM Part No. U.S. 12378261, in Canada 10953455) meeting GM Specification 9986115.
Rear Axle	SAE 75W-90 Synthetic Axle Lubricant (GM Part No. U.S. 12378261, in Canada 10953455) meeting GM Specification 9986115.
Transfer Case (All-Wheel Drive with StabiliTrak®)	DEXRON®-III Automatic Transmission Fluid. Look for "Approved for the H-Specification" on the label.
Automatic Transfer Case (Four-Wheel Drive)	AUTO-TRAK II Fluid (GM Part No. U.S. 12378508, in Canada 10953626).
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.
Hood Hinges	Multi-Purpose Lubricant, Superlube (GM Part No. U.S. 12346241, in Canada 10953474).
Outer Tailgate Handle Pivot Points	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

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 (Non-Rack and Pinion)

The steering linkage consists of the following components:

- A pitman arm
- An idler arm
- 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 support the relay rod. The idler arm pivots on a support attached to the frame rail and the ball stud attaches to the relay rod.

The 2 tie rod are threaded into the tube and secured with jam nuts. Right and left hand threads are used in order to permit the adjustment of toe.

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 navigation/OnStar® features
- 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

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

All pickup models and 25 series Suburban/Yukon XL models use a rear spring suspension system and a solid rear axle suspension system. The rear axle is attached to the multi-rear springs by U-bolts. The front of the spring ends are attached to the frame at the front hangers through rubber bushings. The rear of the spring ends are attached to the frame with shackles that allow the springs to change their length, due to the spring compressing, while the vehicle is in motion. The ride control is provided by 2 identical direct dual-action shock absorbers that are angle-mounted between the frame and the brackets which are attached to the axle tubes.

All 15 series utility vehicles use a 5-link rear suspension system. The rear axle is attached to the frame with the upper control arms, lower control arms, and a track bar. Two coil springs and a link mounted rear stabilizer shaft complete the system.

Real Time Damping Description

The RTD system is bi-state real time damping system. The Electronic Suspension Control (ESC) module controls the suspension damper solenoids and suspension position sensors, along with parts of the automatic level control (ALC) system and electronic variable orifice (EVO) power steering system.

The RTD system consists of the following:

- ESC Module
- Compressor/Leveling Module
 - Air Pressure Sensor
 - Exhaust Solenoid
- Compressor Motor Relay
- Steering Handwheel Speed/Position Sensor
- Electronic Variable Orifice (EVO) Solenoid
- Suspension Damper Solenoids
- Suspension Position Sensors

The objective of the ESC module is to provide ride and handling results that are superior to a passive damper system, both on and off road at all load conditions. The ESC module monitors body-to-wheel height, vehicle speed, handwheel position/speed, lift/dive status and a driver tow/haul input switch status in real time and instantly selects a "normal" or "firm" mode. This is done for each of the front and rear shock absorbers in order to adjust the vehicle for specific road and driving conditions.

The ESC module will use the rear body-to-wheel displacements and vehicle speed inputs to keep the rear trim height of the vehicle at its desired level.

The ESC module also uses the steering handwheel position/speed sensor and vehicle speed inputs to control a power steering effort control valve.

The suspension damper solenoid is driven ON and OFF by the ESC module. To activate the solenoid, it is initially subjected to full battery voltage for a short period of time. Once the solenoid is pulled-in, the supply voltage is pulse width modulated (PWM). The amount the suspension damper solenoid is activated is based on inputs from the driver Tow/Haul switch, road inputs, position sensor inputs and the PCM. The ESC module provides a common ground for all four of the suspension damper solenoids.

The ESC module provides a common regulated voltage of approximately 5 volts to all four of the body-to-wheel suspension position sensors, air pressure sensor and the steering handwheel position/speed sensor. The ESC module receives VSS discrete output from the PCM. The suspension position sensors provide an analog signal voltage between 0.5 and 4.5 volts to the ESC module. This signal voltage represents the wheel's position relative to the body. The ESC module provides a 5 volt reference and a low reference to the suspension position sensors.

Ignition cycle counting is used by the ESC module to detect faults in the system. The objective is to eliminate false/intermittent codes while maintaining an acceptable level of system performance. The operation of the ignition cycle counting requires that a fault condition be present for four consecutive ignition cycles before it will set the fault code and display the "SERVICE RIDE CONTROL" message. If a fault code is present (without a fault being current), the system will go into one or more degraded modes without displaying a message. Resetting the ignition cycle counter is done by clearing codes with a scan tool. Clearing codes will override ignition cycle counting for one ignition cycle. Therefore, a fault condition will set the fault code immediately if it occurs on the first ignition cycle after the codes are cleared.

There are two different ESC modules being used in the 02 MY. They have the same Z55 RPO, except that one also has an additional ZK3 RPO. The module with the additional ZK3 RPO connects to the EVO solenoid.

Automatic Level Control Description

The RTD system is bi-state real time damping system. The Suspension Control module controls the suspension damper solenoids and suspension position sensors, along with parts of the automatic level control (ALC) system and electronic variable orifice (EVO) power steering system.

The Automatic Level Control system consists of the following:

- Suspension Control Module
- Compressor/Leveling Module
 - Air Pressure Sensor
 - Exhaust Solenoid
- Compressor Motor Relay

The objective of the Automatic Level Control System is to provide constant ride height at all load conditions. The Suspension Control module monitors body-to-wheel height, and vehicle speed.

The Suspension Control module will use the rear body-to-wheel displacements and vehicle speed inputs to keep the rear trim height of the vehicle at its desired level.

Tire Pressure Monitor Description and Operation

The Tire Pressure Monitor (TPM) System warns the driver when a significant loss of tire pressure occurs in any of the 4 tires. The system uses the passenger door module (PDM), body control module (BCM), driver information center (DIC), instrument panel cluster (IPC), a radio frequency (RF) transmitting pressure sensor inside each wheel/tire assembly, and the serial data circuit to perform the system functions. When vehicle speed is less than 32 km/h (20 mph), the sensors go into stationary mode. In this mode the sensors transmit once every 60 minutes to minimize sensor battery consumption. As vehicle speed increases, centrifugal force closes the sensors internal roll switch causing the sensors to go into drive mode. In this mode, the sensor transmits once every 60 seconds. The PDM receives and translates

the data contained in each sensor RF transmission into sensor presence, sensor mode and tire pressure. When the TPM system detects a significant loss of tire pressure, the CHECK TIRE PRESSURE warning message is displayed on the DIC and the low tire pressure warning indicator is displayed on the IPC. Both the DIC message and the IPC indicator can be cleared by adjusting tire pressures to the recommended kPa/psi. Refer to Label - Vehicle Certification in General Information above. The system does not display the individual tire pressures, or their location on the DIC, nor will it indicate which tire pressure is low. The sensors pressure range is 0-351 kPa (0-51 psi). The sensors pressure accuracy from -10 to +70°C (+14 to +158°F) is plus or minus 7 kPa (1 psi). The PDM has the ability to detect malfunctions within the TPM System. Any malfunctions detected will cause the DIC to display the SERVICE TIRE MONITOR warning message. For more information on other functions of the PDM, refer to the following:

Wheels and Tires

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Spare Tire Hoist Retaining Bolt	40 N·m	30 lb ft
Wheel Nuts	190 N·m	140 lb ft

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.

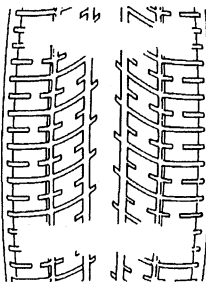
The following factors have an important influence on tire life:

- 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.

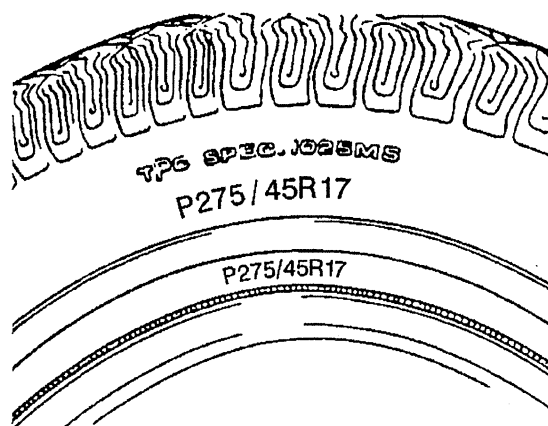
Conditions for Tire Replacement

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

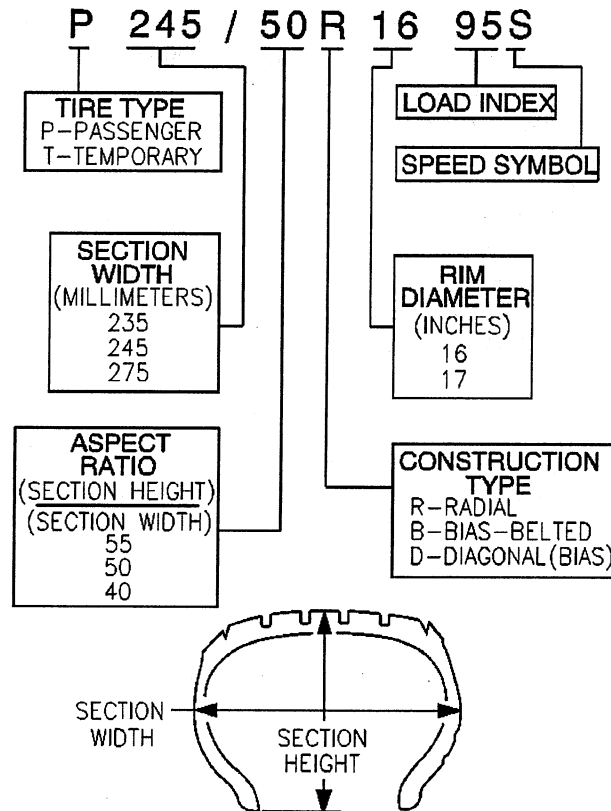


Most GM vehicles are equipped with steel belted all-season radial tires as standard equipment. These tires qualify as snow tires, with a higher than average rating for snow traction than the non-all season

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 transfer case or 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 1 piece propeller shaft uses a splined slip joint to connect the driveline to the transmission or transfer case.

Propeller Shaft Phasing Description

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 Description and Operation

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

Selectable Four Wheel Drive (S4WD) Front Axle Description and Operation

The Selectable Four Wheel Drive (S4WD) Front Axle consist of the following components:

- Differential Carrier Housing
- Differential Assembly
- Output Shafts (Left and Right Side)
- Inner Axle Shaft Housing
- Inner Axle Shaft (Right Side)
- Clutch Fork
- Clutch Fork Sleeve
- Electric Motor Actuator

The front axle on Selectable Four Wheel Drive model vehicles uses a central disconnect feature in order to engage and disengage the front axle. When the driver engages the 4WD system, the Transfer Case Control Module sends a signal to the electric motor actuator to energize and extend the plunger inside. The extended plunger moves the clutch fork and clutch fork sleeve across the inner axle shaft and the clutch fork shaft and locks the two shafts together. The locking of the two shafts allows the axle to operate in the same manner as a semi-floating rear axle. A propeller shaft connects the transfer case to the front axle. The differential carrier assembly uses a conventional ring and pinion gear set 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 is located on top of the differential carrier assembly or on a label on the bottom of 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.

Full-Time Four Wheel Drive (F4WD) Front Axle Description and Operation

The Full-Time Four Wheel Drive (F4WD) Front Axle consist of the following components:

- Differential Carrier Housing
- Differential Assembly
- Output Shaft (Left Side)
- Inner Axle Shaft Housing
- Inner Axle Shaft (Right Side)

The front axle on Full-Time Four Wheel Drive model vehicles does not have a central disconnect feature in order to engage and disengage the front axle. The left and right axle shafts are connected directly to the differential case assembly. This allows the axle shafts and the propeller shaft to spin continuously. The transfer case controls the amount of torque applied to the front axle. The remaining components are the same as the selectable four wheel drive axle.

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

The 800 series utility vehicles use either the 8.60, 9.50 or the 10.50 inch axles. The type of the axle can be identified by the stamping on the right side axle tube. They may also be identified by the ring gear size. The ring gear sizes include the 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.

A open differential has a set of 4 gears. 2 are side gears and 2 are pinion gears. Each side gear is splined to an axle shaft so each axle shaft ; so each axle shaft turns when its 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 which is bolted to the differential case assembly. The differential pinion, as it rotates with 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 2 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. When the vehicle turns a corner the inner wheel turns slower than the outer wheel which slows the rear axles' side gear (as the shaft is splined to the side gear). The rear axle pinion gears will roll around the slower moving 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.

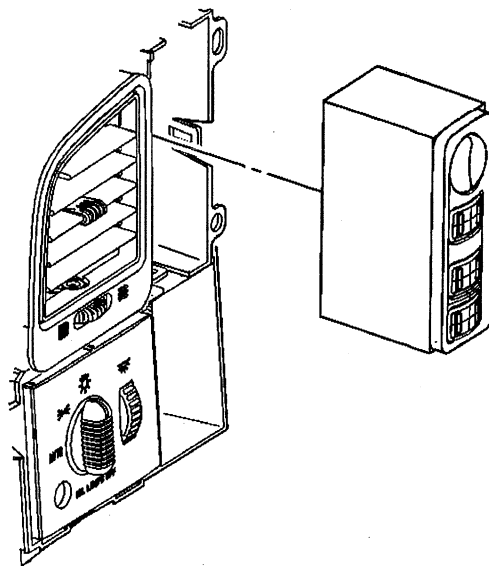
The service procedure, when the disc tangs shear, involves replacing the left-hand clutch plates and the wave spring. It is also necessary to examine the axle shafts for twisting because at high torques it is possible to not only shear the load-limiting disc, but to also twist the axle shafts.

Transfer Case - NVG 246-NP8 (Two Speed Automatic)

Transfer Case General Operation

The New Venture Gear model NVG 246 RPO NP8 transfer case is a two speed automatic, active, transfer case. The NVG 246 EAU provides 5 modes, Auto 4WD, 4HI, 4LO, 2HI and Neutral. The Auto 4WD position allows the capability of an active transfer case, which provides the benefits of on-demand torque biasing wet clutch and easy vehicle tuning through software calibrations. The software calibrations allow more features such as flexible adapt ready position and clutch preload torque levels. The technology allows for vehicle speed dependent clutch torque levels to enhance the performance of the system. For example, the system is calibrated to provide 0-5 ft lb of clutch torque during low speed, low engine torque operation, and predetermined higher torque for 40 km/h (25 mph) and greater. This prevents crow-hop and binding at low speeds and provides higher torque biases at higher vehicle speeds, in order to enhance stability.

Transfer Case Shift Control Switch



The NVG 246 EAU transfer case features a 4 button shift control switch located on the instrument panel. When the ignition key is in the RUN position, the transfer case shift control module monitors the transfer case shift control switch to determine if the driver desires a new mode/range position. At a single press of the transfer case shift control switch, the lamp of the new desired position will begin flashing to inform the driver that the transfer case shift control module has received the request for a new mode/range position. The lamp will continue to flash until all shifting criteria has been met and the new mode/range position has been reached, or has been engaged. Once the new mode/range position is fully active, the switch indicator lamp for the new position will remain ON constantly.

During normal driving situations, the transfer case can operate in the Auto 4WD mode. In the Auto 4WD mode, the transfer case shift control module monitors rear wheel slip speed, based on the inputs from both the front and rear propshaft speed sensors. When the vehicle experiences a rear wheel slip condition, the transfer case shift control module sends a pulse width modulated (PWM) signal to an electronic motor, which is the transfer case encoder motor. This motor rotates the transfer case control actuator lever shaft, applying a clutch pack. This clutch pack is designed to deliver a variable amount of

torque, normally delivered to the rear wheels, and transfers it to the front wheels. Torque is ramped up to the front wheels until the front propshaft speed sensor matches that of the rear propshaft speed sensor. Torque is ramped down to the front wheels. The process would repeat if rear wheel slip is detected again.

The NVG 246 EAU transfer case has the added feature of also providing the driver with 3 manual mode/range positions:

- 4HI - 4 Wheel Drive high range
- 2HI - 2 Wheel Drive high range
- 4LO - 4 Wheel Drive low range

The driver may choose to select any of these mode/range positions while driving the vehicle. However, the transfer case will not allow a shift into or out of 4LO unless the following criteria has been met:

- The engine is running.
- The automatic transmission is in Neutral.
- The vehicle speed is below 5 km/h (3 mph).

This transfer case also has a Neutral position. A shift to the Neutral position allows the vehicle to be towed without rotating the transmission output shaft. Neutral position may be obtained only if the following criteria has been met:

- The engine is running.
- The automatic transmission is in Neutral.
- The vehicle speed is below 5 km/h (3 mph).
- The transfer case is in 2HI mode.

Once these conditions have been met, press and hold both the 2HI and 4LO buttons for 10 seconds. When the system completes the shift to neutral, the red neutral lamp will illuminate.

The NVG 246 EAU case halves are high-pressure die-cast magnesium. Ball bearings support the input shaft, the front output shaft, and the rear output shaft. A thrust bearing is located inside of the input shaft gear to support the front of the rear output shaft. The transfer case requires Auto Trac® II Fluid GM P/N 12378508 (Canadian P/N 10953626) which is blue in color. The fluid is designed for smooth clutch application. An oil pump, driven by the rear output shaft, pumps the fluid through the rear output shaft oil gallery to the clutch and bearings.

There are two versions of the NVG 246 EAU, which depend on the transmission applications and vehicle applications. If the vehicle is equipped with a transmission RPO M30, the transmission splines in the input gear will have 27 teeth. With this application the planetary carrier assembly will have 3 pinion gears. If the vehicle is equipped with transmission RPO MT1 or MN8, the transmission splines in the input gear will have 32 teeth. The planetary carrier assembly on this application will have 6 pinion gears.

Transfer Case Circuit Description

Transfer Case Shift Control Module

The transfer case shift control module uses the VIN information for calculations that are required for the different calibrations used based on axle ratio, transmission, tire size, and engine. The system does not know which calibration to use without this information.

Transfer Case Encoder Motor

The transfer case encoder motor consists of a permanent magnet (PM) DC motor and gear reduction assembly. It is located on the left hand side (drivers side) of the transfer case. When activated it turns the sector shaft of the transfer case (clockwise or counter clockwise) to shift the transfer case. The encoder motor is controlled with a pulse width modulated (PWM) circuit within the transfer case shift control module. This circuit consists of a driver on both the Motor Feed A and Motor Feed B circuits. The encoder motor is bi-directional to allow the motor to shift the transfer case from 2HI or 4HI to NEUTRAL and 4LO positions.

Transfer Case Encoder

The encoder is mounted to the transfer case encoder motor assembly and is replaced as an assembly. The encoder converts the sector shaft position (representing a mode or range) into electrical signals inputs to the transfer case shift control module. The module can detect what position the transfer case is in by monitoring the 4 encoder channels (P, A, B, and C). These inputs translates into AUTO 4WD, 2H, 4H, NEUTRAL, and 4L or in transition between gears.

Transfer Case Motor Lock

The transfer case motor lock is used to provide a 2H, 4H, and 4L lock-up feature. When the lock circuit is energized, the transfer case encoder motor is allowed to turn. When the transfer case is placed 2H, 4H, or 4L the motor lock circuit has no power provided to it and the lock is applied. This assures that the transfer case remains in the current gear position. When AUTO 4WD is selected the motor lock remains applied until an adaptive mode (torque is applied to the front propshaft) is required. During an adaptive mode the motor lock circuit is energized and the motor lock is released, enabling the encoder motor to turn and apply torque to the front propshaft.

Transfer Case Speed Sensors

There are three speed sensors on the automatic transfer case (ATC), two on the rear output shaft and one on the front output shaft. Each speed sensor is a permanent magnet (PM) generator. The PM generator produces a pulsing AC voltage. The AC voltage level and number of pulses increases as speed increases.

Vehicle Speed Sensor

One of the two on the rear output shaft is the vehicle speed sensor (VSS) input to the powertrain control module (PCM). The PCM sends this information to the transfer case shift control module via the Class 2 Serial Data bus.

Rear Propshaft Speed Sensor

The transfer case shift control module converts the pulsating AC voltage from the rear transfer case speed sensor to a rear propshaft speed in RPM to be used for calculations. The rear propshaft speed can be displayed with a scan tool.

Front Propshaft Speed Sensor

The transfer case shift control module converts the pulsating AC voltage from the front transfer case speed sensor to front propshaft speed in RPM to be used for calculations, and to monitor the difference between the front and rear sensor speed. It is also used in the AUTO 4WD mode of operation to determine the amount of slip and the percent of torque to apply to the front axle. The front propshaft speed can be displayed with a scan tool.

SERVICE indicator (4WD/AWD) Lamp

The SERVICE indicator (4WD/AWD) lamp is an integral part of the cluster and cannot be serviced separately. This lamp is used to inform the driver of the vehicle of malfunctions within the automatic transfer case (ATC) system. The SERVICE indicator (4WD/AWD) lamp is controlled by the transfer case shift control module via a Class 2 message or by a Service Indicator Control Circuit.

Transfer Case - BW 4481-NR3

The Borg Warner (BW) model 4481, RPO NR3 transfer case is a one-speed, full time, all wheel drive (AWD), transfer case. The transfer case provides power to both axles, through an external planetary type differential, which has two different sets of pinion gears. The planetary differential provides a 40/60 torque split, front/rear, full time. This means both axles are constantly being driven for maximum traction in all conditions.

The transfer case external type planetary differential functions the same as a typical rear axle differential. The transfer case differential pinion gears function as the spider gears, and the sun gears function as the side gears.

The following actions occur because of the planetary differential:

- If the vehicle is on a hoist, the front propeller shaft can be rotated by hand.
- The vehicle cannot be driven if one propeller shaft is removed.
- Operating the vehicle on the hoist can damage the differential pinion gears, by over-spinning.
- Operating the vehicle with one propeller shaft removed causes over-spinning of the differential pinion gears.

The BW 4481 design of the planetary differential allows the use with the Vehicle Stability Enhancement System (VSES) vehicles. The VSES takes use of the planetary differential, by applying braking to a tire that has less traction and dividing the engine torque to the other axle.

The BW 4481 case halves are high-pressure, die-cast magnesium. Ball bearings support the input shaft, the front output shaft, and the rear output shaft. The transfer case requires DEXRON®III ATF GM P/N 12378470 (Canadian P/N 10952622), which is red in color.

Transfer Case - BW 4482-NR4

The Borg Warner (BW) model 4482 NR4 transfer case is a two-speed, full time 4WD, transfer case. The transfer case has an external planetary type differential, which has two different sets of pinion gears. The planetary differential provides a 40/60 torque split front/rear full time. This means the front and rear propeller shafts are constantly being driven for maximum traction in all conditions.

While in the 4HI mode, the transfer case external type planetary differential functions the same as a typical rear axle differential. The transfer case differential pinion gears function as the spider gears, and the sun gears function as the side gears.

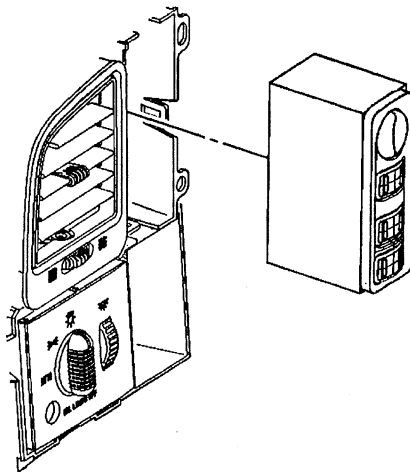
The following actions occur because of the planetary differential:

- If the vehicle is on a hoist, and in the 4HI mode, the front propeller shaft can be rotated by hand.
- The vehicle cannot be driven in the 4HI mode if one propeller shaft is removed.
- Operating the vehicle on the hoist, in the 4HI mode, can damage the differential pinion gears, by over-spinning.
- Operating the vehicle with one propeller shaft removed, in the 4HI mode, causes over-spinning of the differential pinion gears.

The BW 4482 design of the planetary differential allows use with the Vehicle Stability Enhancement System (VSES) vehicles. The VSES takes use of the planetary differential, by applying braking to a tire that has less traction and dividing the engine torque to the other axle. A high/low planetary carrier assembly provides the high and low ranges, which is a 4-pinion gear, sun gear, and annulus gear arrangement, giving a 2.64 low range reduction ratio.

The BW 4482 case halves are high-pressure die-cast magnesium. Ball bearings support the input shaft, the front output shaft, and the rear output shaft. A needle roller bearing is located inside of the input shaft gear to support the front of the mainshaft. The rear of the mainshaft is supported by a bronze bearing inside the rear output shaft. The transfer case requires DEXRON®III ATF Fluid GM P/N 12346143 (Canadian P/N 10952622), which is red in color. An oil pump pumps the fluid through the mainshaft oil gallery to the gears and bearings.

Transfer Case Shift Control Switch



The BW 4482 transfer case features a 3-button shift control switch located on the instrument panel. When the vehicle has the ignition key in the RUN position, the transfer case shift control module starts monitoring the transfer case shift control switch to determine if the driver desires a new mode/range position. At a single press of the transfer case shift control switch, the lamp of the new desired position will begin flashing to inform the driver that the transfer case shift control module has received the request for a new mode/range position. The lamp will continue to flash until all shifting criteria have been met and the new mode/range position has been reached, or has been engaged. Once the new mode/range position is fully active, the switch indicator lamp for the new position will remain ON constantly. In addition, the switch includes a VSES request button which sends a voltage signal to the transfer case shift control module. The transfer case shift control module in turn sends a request via the class 2 data bus to the ABS control module which controls the VSES system.

During normal driving situations, the transfer case operates in the 4HI mode. When the 4HI mode is selected, the transfer case shift control module sends 12 volts to an electrical motor, which is the transfer case encoder motor. This motor rotates the transfer case shift detent lever shaft which moves the shift forks and range sleeve to obtain different modes/ranges.

The BW 4482 transfer case has the added feature of also providing the driver with 2 selectable mode/range positions and a VSES request button:

- 4HI - Full Time 4 Wheel Drive
- 4LO - 4 Wheel Drive Low Locked
- VSES - Vehicle Stability Enhancement System

The transfer case will not allow a shift into or out of 4LO unless the following criteria has been met:

- The engine is running.
- The automatic transmission is in Neutral.
- The vehicle speed is below 5 km/h (3 mph).

This transfer case also has a Neutral position. A shift to the Neutral position allows the vehicle to be towed without the transmission output shaft rotating. Refer to the Owners Manual for instructions for proper towing of the vehicle.

Neutral position may be obtained only if the following criteria have been met:

- The ignition switch is ON.
- The automatic transmission is in Neutral.
- The vehicle speed is below 5 km/h (3 mph).
- The transfer case is in the 4HI mode.

Once these conditions have been met, press and hold both the 4HI and 4LO Lock buttons for 10 seconds. When the system completes the shift to neutral, the red neutral indicator will illuminate.

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.

Park Brake System Description and Operation

General Description

The park brake system consists of the following:

Park Brake Pedal Assembly

Receives and transfers park brake system apply input force from driver to park brake cable system.

Park Brake Release Handle Assembly

Releases applied park brake system when pulled.

Park Brake Cables

Transfers input force received from park brake pedal, through park brake cable equalizer, to park brake apply lever.

Park Brake Cable Equalizer

Evenly distributes input force to both the left and right park brake units.

Threaded park brake cable equalizers are also used to remove slack in park brake cables.

Park Brake Apply Lever

Multiplies and transfers input force to park brake actuator.

Park Brake Actuator/Adjuster

Uses multiplied input force from apply lever to expand park brake shoe toward the friction surface of the drum-in-hat portion of the rear brake rotor.

Threaded park brake actuators are also used to control clearance between the park brake shoe and the friction surface of the drum-in-hat portion of the rear brake rotor.

Park Brake Shoe

Applies mechanical output force from park brake actuator to friction surface of the drum-in-hat portion of the rear brake rotor.

System Operation

Park brake apply input force is received by the park brake pedal assembly being depressed, transferred and evenly distributed, through the park brake cables and the park brake cable equalizer, to the left and right park brake apply levers. The park brake apply levers multiply and transfer the apply input force to the park brake actuators which expand the park brake shoe toward the friction surface of the drum-in-hat portion of the rear brake rotor in order to prevent the rotation of the rear tire and wheel assemblies. The park brake release handle assembly releases an applied park brake system when it is pulled rearward.

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

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 – 4.8L, 5.3L**General Specifications 4.8L (LR4 VIN V)**

Application	Specification	
	Metric	English
General		
Bore	96.0-96.018 mm	3.779-3.78 in
Compression Ratio	9.5:1	
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
Connecting Rod Journal Taper - Maximum for 1/2 of Journal Length - Production	0.005 mm	0.0002 in

Application	Specification	
	Metric	English
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 2 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 Housing 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 - Exhaust	11.82 mm	0.465 in
Valves - Valve Lift - Intake	11.58 mm	0.456 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 - 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 (LM7 VIN T)

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	9.5:1	
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 2 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 Housing 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

General Specifications – 5.3L (L59 VIN Z)

Application	Specification	
	Metric	English
General		
Engine Type	V8	
Displacement	5.3L	325 CID
RPO	L59	
VIN	Z	
Bore	96.0-96.018 mm	3.779-3.78 in
Stroke	92.0 mm	3.622 in
Compression Ratio	9.5:1	
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 2 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 Housing 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	11.58 mm	0.456 in
Valves - Valve Lift - Exhaust	11.82 mm	0.465 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

Application	Specification	
	Metric	English
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

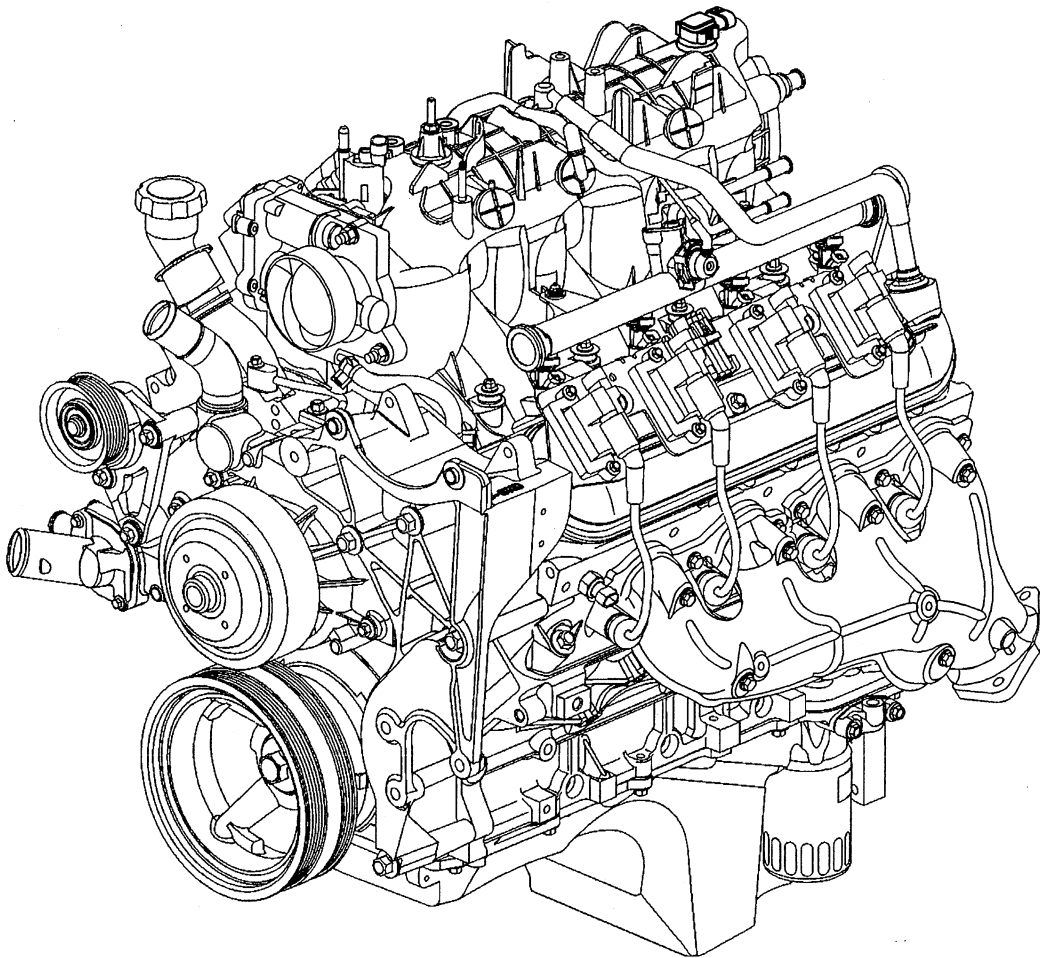
Fastener Tightening Specifications

Application	Specification	
	Metric	English
Air Cleaner Outlet Duct Clamp	7 N·m	62 lb in
Air Conditioning Belt Tensioner Bolt	50 N·m	37 lb ft
Battery Cable Channel Bolt	12 N·m	106 lb in
Camshaft Position (CMP) Sensor Bolt	25 N·m	18 lb ft
Camshaft Retainer Bolts - Hex Head Bolts	25 N·m	18 lb ft
Camshaft Retainer Bolts - TORX® Head Bolts	15 N·m	11 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 - M8 Bolts	25 N·m	18 lb ft
Crankshaft Bearing Cap - M10 Bolts - First Pass in Sequence	20 N·m	15 lb ft
Crankshaft Bearing Cap - M10 Bolts - Final Pass in Sequence	80 degrees	
Crankshaft Bearing Cap - M10 Studs - First Pass in Sequence	20 N·m	15 lb ft
Crankshaft Bearing Cap - M10 Studs - Final Pass in Sequence	51 degrees	
Crankshaft Oil Deflector Nuts	25 N·m	18 lb ft
Crankshaft Position (CKP) Sensor Bolt	25 N·m	18 lb ft
Crossbar Bolt	100 N·m	74 lb ft
Cylinder Head Coolant Plug	20 N·m	15 lb ft
Cylinder Head M8 Bolts - in Sequence	30 N·m	22 lb ft
Cylinder Head M11 Bolts - First Pass in Sequence	30 N·m	22 lb ft
Cylinder Head M11 Bolts - Second Pass in Sequence	90 degrees	
Cylinder Head M11 Bolts - Final Pass in Sequence	70 degrees	
Differential Carrier Lower Mounting Bolt/Nut	100 N·m	74 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 Plugs	60 N·m	44 lb ft
Engine Block Coolant Heater	40 N·m	30 lb ft
Engine Block Oil Gallery Plugs	60 N·m	44 lb ft
Engine Coolant Air Bleed Pipe and Cover Bolts	12 N·m	106 lb in
Engine Harness Ground Bolt - Right Rear	16 N·m	12 lb ft
Engine Harness Ground Bolt-to-Block	25 N·m	18 lb ft

Application	Specification	
	Metric	English
Engine Mount Bolt-to-Engine Bracket	50 N·m	37 lb ft
Engine Mount Frame Bracket Through Bolt	75 N·m	55 lb ft
Engine Mount Frame Side Mount Bolt	65 N·m	50 lb ft
Engine Mount-to-Engine Bracket Bolt	50 N·m	37 lb ft
Engine Shield Bolt	20 N·m	15 lb ft
Engine Wiring Harness Bracket Nut	5 N·m	44 lb in
Evaporative Emission (EVAP) Canister Purge Solenoid Valve 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
Flex Plate Bolts - First Pass	20 N·m	15 lb ft
Flex Plate Bolts - Second Pass	50 N·m	37 lb ft
Flex Plate Bolts - Final Pass	100 N·m	74 lb ft
Front Cover Bolts	25 N·m	18 lb ft
Fuel Injection Fuel Rail Bolts	10 N·m	89 lb in
Fuel Rail Cover Bolt	9 N·m	80 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 Bracket Bolt	50 N·m	37 lb ft
Generator Cable Nut	9 N·m	80 lb in
Heater Hose Bracket Nut	9 N·m	80 lb in
Hood Hinge Bolt	25 N·m	18 lb ft
Ignition Coil-to-Bracket Bolts	10 N·m	89 lb in
Ignition Coil Bracket-to-Valve Rocker Arm Cover Studs	12 N·m	106 lb in
Inner Axle Housing Nut	100 N·m	74 lb ft
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 Sight Shield Bolts	10 N·m	89 lb in
Intake Manifold Sight Shield Bracket Bolts	5 N·m	45 lb in
Intake Manifold Sight Shield Retainer Bolt	5 N·m	44 lb in
Intake Manifold Wiring Harness Stud	10 N·m	89 lb in
J 41712 M8 Bolt	25 N·m	18 lb ft
J 41712 M10 Bolts	50 N·m	37 lb ft
Knock Sensors	20 N·m	15 lb ft
Mass Airflow/Intake Air Temperature (MAF/IAT) Sensor Clamp	7 N·m	62 lb in
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 Sensor	13 N·m	115 lb in
Oil Pan Baffle Bolts	12 N·m	106 lb in
Oil Pan Closeout Cover Bolt - Left Side	9 N·m	80 lb in
Oil Pan Closeout Cover Bolt - Right Side	9 N·m	80 lb in
Oil Pan Cover Bolts	12 N·m	106 lb in
Oil Pan Drain Plug	25 N·m	18 lb ft
Oil Pan M6 Bolts - Oil Pan-to-Rear Housing	12 N·m	106 lb in
Oil Pan M8 Bolts - Oil Pan-to-Engine Block and Oil Pan-to-Front Cover	25 N·m	18 lb ft
Oil Pan Skid Plate Bolt	20 N·m	15 lb ft
Oil Pressure Sensor	35 N·m	26 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

Application	Specification	
	Metric	English
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
Rear Housing Bolts	25 N·m	18 lb ft
Spark Plugs	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 Bolt - 4L60-E/4L65-E Transmissions	63 N·m	47 lb ft
Torque Converter Bolt - 4L80-E/4L85-E Transmissions	60 N·m	44 lb ft
Transmission Bolt/Stud	50 N·m	37 lb ft
Transmission Cover Bolt	12 N·m	106 lb in
Transmission Oil Level Indicator Tube Nut	18 N·m	13 lb ft
Valley Cover Bolts	25 N·m	18 lb ft
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

Engine Component Description



The 4.8 and 5.3 Liter V8 engines are identified as RPO LR4 VIN V (4.8L), RPO LM7 VIN T (5.3L), and RPO L59 VIN Z (5.3L).

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 manual transmissions 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.

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 body, evaporative emission (EVAP) solenoid, wire harness stud, engine sight shield and sight shield bracket. Each side of the intake manifold is sealed to the cylinder head by a nonreusable silicone sealing gasket and nylon carrier assembly. The electronically 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

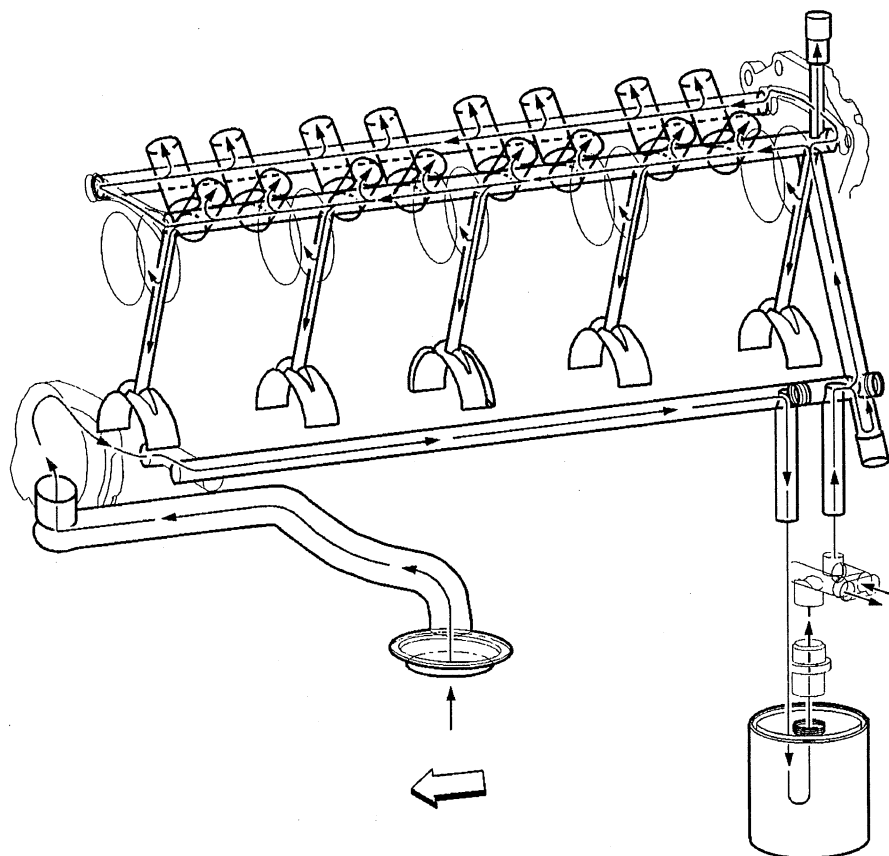
The valve rocker arm covers are cast aluminum and use a pre-molded silicon gasket for sealing. Mounted to each rocker cover are the coil and bracket assemblies. Incorporated into the left cover is the positive crankcase ventilation (PCV) system passage. Incorporated into the right cover is the oil fill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

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 set by hand.

Lubrication Description



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.

Crankcase Ventilation System Description

A closed crankcase ventilation system is used in order to provide a more complete scavenging of the crankcase vapors. Fresh air from the throttle body is supplied to the crankcase, mixed with blow-by gases, and then passed through a crankcase ventilation valve into the intake manifold.

The primary control is through the crankcase ventilation valve which meters the flow at a rate depending on manifold vacuum. To maintain idle quality, the crankcase ventilation valve restricts the flow when intake manifold vacuum is high. If abnormal operating conditions arise, the system is designed to allow excessive amounts of blow-by gases to back flow through the crankcase vent tube into the engine air inlet to be consumed by normal combustion.

Filtered fresh air is routed from up-stream of the throttle blade to the front of the right rocker arm cover via a formed rubber hose. To reduce the potential of oil pullover into the throttle bore area due to back flow of the ventilation system, the fitting in the right rocker arm cover is shielded from the rocker arms. From there fresh air and gases are routed through the crankcase and up to the opposite rocker arm cover where the positive crankcase ventilation (PCV) valve is located. Gases are then routed through a hose to the intake manifold.

Engine Cooling

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Air Cleaner Outlet Duct Clamp	4 N·m	35 lb in
Coolant Air Bleed Pipe Stud/Bolt - 4.8L, 5.3L, and 6.0L Engines	12 N·m	106 lb in
Coolant Heater Cord Bolt	8 N·m	71 lb in
Coolant Heater - 4.8L, 5.3L, and 6.0L	50 N·m	37 lb ft
Engine Block Coolant Drain Plug	60 N·m	44 lb ft
Fan Clutch Bolt	23 N·m	17 lb ft
Fan Clutch Nut	56 N·m	41 lb ft
Fan Shroud Bolt	9 N·m	80 lb in
Generator Bracket Stud	20 N·m	15 lb ft
Oil Cooler Hose Adapter Bolt - 6.0L Engine	12 N·m	106 lb in
Oil Cooler Hose Bracket Bolt - 6.0L Engine	25 N·m	18 lb ft
Oil Pan Skid Plate Bolt	20 N·m	15 lb ft
Radiator Bolt	25 N·m	18 lb ft
Surge Tank Bolt/Nut	9 N·m	80 lb in
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 Pump Bolt - 4.8L, 5.3L, and 6.0L Engines		
First Pass	15 N·m	11 lb ft
Final Pass	30 N·m	22 lb ft
Water Pump Inlet Bolt	15 N·m	11 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. Its 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
Battery Cable Bracket Bolt	25 N·m	18 lb ft
Battery Cable Channel Bolt	12 N·m	106 lb in
Battery Cable Junction Block Bracket Bolt	9 N·m	80 lb in
Battery Hold Down Retainer Bolt	25 N·m	18 lb ft
Battery Tray Bolt	9 N·m	80 lb in
Battery Tray Nut	25 N·m	18 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
Front Axle Mounting Bracket Nut	95 N·m	70 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
Generator Bracket Bolt - 4.8L, 5.3L, and 6.0L Engines	50 N·m	37 lb ft
Generator Bracket Stud	20 N·m	15 lb ft
Generator Bolt	50 N·m	37 lb ft
Generator Cable Nut	9 N·m	80 lb in
Ground Strap Nut	9 N·m	80 lb in
Negative Battery Cable Bolt	17 N·m	13 lb ft
Positive Battery Cable Bolt	17 N·m	13 lb ft
Positive Cable Nut	9 N·m	80 lb in
Positive Cable at Underhood Bussed Electrical Center (UBEC) Bolt	9 N·m	80 lb in
Starter Bolt	50 N·m	37 lb ft
Starter Lead Nut	3.4 N·m	30 lb in
Transmission Cover Bolt	9 N·m	80 lb in

Battery Usage

Base	
GM Part Number	19001810
Cold Cranking Amperage (CCA)	600 A
Reserve Capacity Rating	115 Minutes
Replacement Battery Number	78-6YR
Optional (Dual)	
GM Part Number	19001814
Cold Cranking Amperage (CCA)	770 A
Reserve Capacity Rating	115 Minutes
Replacement Battery Number	78-7YR

Generator Usage

Base	
Generator Model	Delphi AD230
Rated Output	102 A
Load Test Output	71 A
Optional (Dual)	
Generator Model	Delphi AD244
Rated Output	130 A
Load Test Output	91 A

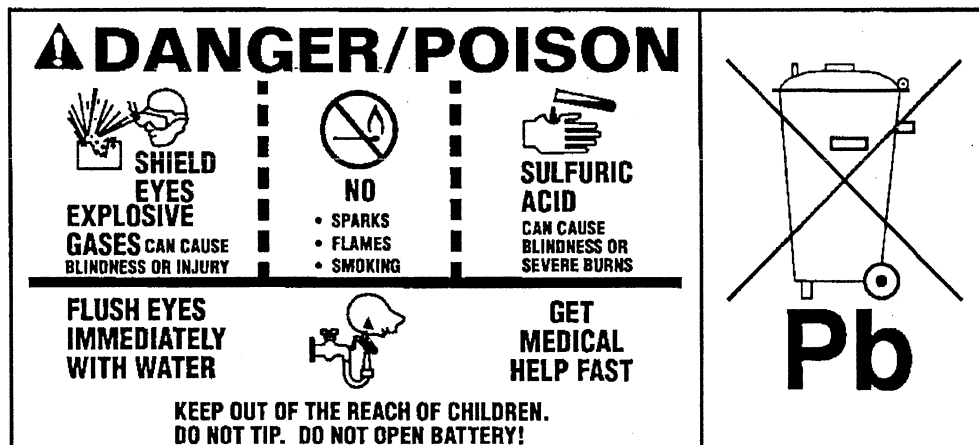
Bosch® Generator	
Generator Model	Bosch® 15755900
Rated Output	130 A
Load Test Output	91 A

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

CATALOG NO.

1819

CCA 770	LOAD TEST 380
REPLACEMENT MODEL 100-6YR	

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-260M and Hitachi-S14-100B are non-repairable starter motors. 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 AD-230 and AD-244 generators are non-repairable. They are electrically similar to earlier models. The generators 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 AD stands for Air-cooled Dual internal fan; the 2 is an electrical design designator; the 30/44 denotes the outside diameter of the stator laminations in millimeters, over 100 millimeters. The generators is rated at 102 and 130 amperes respectively.

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 field current of the rotor in order to limit system voltage. 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.

Auxiliary Battery Charging

The auxiliary battery is charged in the same manner as the primary battery with the ignition switch in the run position and the engine running. The system contains the following components:

- Auxiliary battery.
- Auxiliary battery relay.
- Mega fuse.

- Junction block battery cable.
- Associated wiring.

The auxiliary battery relay coil is energized with the engine running through the fuse block and wiring, thus closing the relay contacts which allow the battery to be charged from the vehicle's generator via the battery junction block. The auxiliary battery relay is permanently grounded so any time the ignition switch is in the run position the relay will be energized.

The auxiliary battery is only used for accessories and is not part of the vehicle starting system. However if the primary battery fails and in need of an jump start, follow the service information for Jump Starting In Case Of Emergency using appropriate battery jumper cables.

Engine Controls

Engine Controls – 4.8L & 5.3L

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
3-Phase Cable Bracket Nut	15 N·m	11 lb ft
Accelerator Pedal Nut	20 N·m	15 lb ft
Air Cleaner Outlet Duct Clamp	7 N·m	62 lb in
Auxiliary Heater Water Pump Bracket Bolt	15 N·m	11 lb ft
Brake Pipe Fittings to Electronic Brake Control Module (EBCM)	25 N·m	18 lb ft
Camshaft Position (CMP) Sensor Bolt	29 N·m	21 lb ft
Canister Vent Solenoid (CVS) Bracket Bolt	12 N·m	106 lb in
Crankshaft Position (CKP) Sensor Bolt	25 N·m	18 lb ft
Crossover Fuel Pipe Retainer Clip Attaching Screw	3.8 N·m	34 lb in
Electro-Hydraulic Control Unit (EHCUC) Bolts	25 N·m	18 lb ft
Engine Coolant Temperature (ECT) Sensor	20 N·m	15 lb ft
Engine Wiring Harness Bracket Nut	5 N·m	44 lb in
EVAP Canister Bolt/Nut	25 N·m	18 lb ft
EVAP Canister Bracket Bolt	25 N·m	18 lb ft
EVAP Canister Purge Solenoid Bolt	10.5 N·m	93 lb in
EVAP Vent Valve Bracket Bolt	12 N·m	106 lb in
Fuel Composition Sensor Nut	17 N·m	13 lb ft
Fuel Composition Sensor to Bracket Bolt	10 N·m	89 lb in
Fuel Feed and EVAP Pipe Assembly Nut	12 N·m	106 lb in
Fuel Feed, EVAP, and Return Pipe Assembly Nut	12 N·m	106 lb in
Fuel Line Fitting	25 N·m	18 lb ft
Fuel Pipe Bracket Nut	10 N·m	89 lb in
Fuel Rail Bolts	10 N·m	89 lb in
Fuel Return Pipe Attaching Screw	5 N·m	44 lb in
Fuel Tank Ground Strap Bolt	9 N·m	80 lb in
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

Application	Specifications	
	Metric	English
Fuel Tank Filler Pipe Housing to Fuel Tank Fill Pipe Screw	2.3 N·m	20 lb in
Fuel Tank Shield Bolt	18 N·m	13 lb ft
Fuel Tank Strap Bolt	40 N·m	30 lb ft
Heated Oxygen Sensor (HO2S)	42 N·m	31 lb ft
Ignition Coil Bolt	8 N·m	71 lb in
Knock Sensor	20 N·m	15 lb ft
Mass Air Flow/Intake Air Temperature (MAF/IAT) Sensor Clamp	7 N·m	62 lb in
Powertrain Control Module (PCM) Electrical Connector Bolt	8 N·m	71 lb in
Rear Fuel Line Bundle Nut	12 N·m	106 lb in
Spark Plug		
New Head	20 N·m	15 lb ft
Used Head	15 N·m	11 lb ft
Throttle Actuator Control (TAC) Module Nut	9 N·m	80 lb in
Throttle Body Nut	10 N·m	89 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.

Fuel E85 (85% Ethanol)

The 8th digit of your vehicle identification number (VIN) shows the code letter or number that identifies your engine. You will find the VIN at the top left of the instrument panel. See Vehicle Identification Number (VIN).

If your vehicle has the 5.3L V8 engine (VIN Code Z only), you may use either regular unleaded gasoline or ethanol fuel containing up to 85% ethanol (E85); also see Fuel. In all other engines, use only the unleaded gasoline described under Gasoline Octane.

Only vehicles that have the 5.3L V8 engine (VIN Code Z) may use 85% ethanol fuel (E85). General Motors encourages the use of E85 in vehicles that are designed to use it. The ethanol in E85 is a "renewable" fuel, meaning it is made from renewable sources such as corn and other crops.

Many service stations will not have an 85% ethanol fuel (E85) pump available. The U. S. Department of Energy has an alternative fuels website (<http://www.eere.energy.gov/afdc/infrastructure/locator.html>) that can help you find E85 fuel. Those stations that do have E85 should have a label indicating ethanol content. Do not use the fuel if the ethanol content is greater than 85%.

At a minimum, E85 should meet ASTM Specification D 5798.

To ensure quick starts in the wintertime, the E85 fuel must be formulated properly for your climate according to ASTM specification D 5798. If you have trouble starting on E85, it may be because your E85 fuel is not properly formulated for your climate. If this happens, switching to gasoline or adding gasoline to your fuel tank may improve starting. Your vehicle is designed to accommodate a mixture of gasoline and E85 fuel. For good starting and heater efficiency below 32°F (0°C), the fuel mix in the fuel tank should contain no more than 70% ethanol.

E85 has less energy per gallon than gasoline, so you will need to refill your fuel tank more often when using E85 than when you are using gasoline. Regular unleaded gasoline is recommended when pulling a trailer. For payload capacity with ethanol fuel, see Loading Your Vehicle.

Notice: Some additives are not compatible with E85 fuel and may harm your fuel system. Damage caused by additives would not be covered by your new vehicle warranty. Do not use additives with E85 fuel.

Notice: Your vehicle was not designed for fuel that contains methanol. Do not use fuel containing methanol. It can corrode metal parts in your fuel system and also damage the plastic and rubber parts. That damage would not be covered under your warranty.

Exhaust System

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Engine Shield Bolt	20 N·m	15 lb ft
Engine Coolant Temperature (ECT) Sensor	20 N·m	15 lb ft
EGR Pipe Bracket Bolt - 8.1L Engine	50 N·m	37 lb ft
EGR Pipe Nut - 8.1L Engine	30 N·m	22 lb ft
Exhaust Heat Shield Bolt	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 Engines		
First Pass in Sequence	15 N·m	11 lb ft
Final Pass in Sequence	25 N·m	18 lb ft
Exhaust Manifold Center Bolt - 8.1L Engine	35 N·m	26 lb ft
Exhaust Manifold Heat Shield Bolt - 4.8L, 5.3L, and 6.0L Engines	9 N·m	80 lb in
Exhaust Manifold Heat Shield Bolt/Nut - 8.1L Engine	25 N·m	18 lb ft
Exhaust Manifold Nut - 8.1L Engine	16 N·m	12 lb ft
Exhaust Pipe Hanger Bracket Bolt	12 N·m	106 lb in
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 Pipe Clamp	40 N·m	30 lb ft
Oil Pan Skid Plate Bolt	20 N·m	15 lb ft
Oxygen Sensor	42 N·m	31 lb ft
Rear Shock Absorber Lower Bolt	95 N·m	70 lb ft
Transmission Mount Nut	40 N·m	30 lb ft
Transmission Support Crossmember Bolt	70 N·m	52 lb ft

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.

Resonator

Some exhaust systems are equipped with a resonator. The resonator, located either before or after the muffler, allows the use of mufflers with less back pressure. Resonators are used when vehicle characteristics require specific exhaust tuning.

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.

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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:

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

The catalyst in the converter is not serviceable.

Muffler

The exhaust muffler reduces the noise levels of the engine exhaust by the use of tuning tubes. The tuning tubes create channels inside the exhaust muffler that lower the sound levels created by the combustion of the engine.

Transmission/Transaxle Description and Operation

Automatic Transmission – 4L60E

Transmission General Specifications

Name	Hydra-matic 4L60-E
RPO Codes	M30, M32, M70
Production Location	Toledo, Ohio Romulus, MI
Vehicle Platform (Engine/Transmission) Usage	C/K, C/K 800
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	8.0-14.0 N·m	6-10 lb ft
Case Extension to Case Bolt	42.0-48.0 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	65.0-75.0 N·m	48-55 lb ft
Cooler Pipe Connector	35.0-41.0 N·m	26-30 lb ft
Detent Spring to Valve Body Bolt	20.0-27.0 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	8.0-14.0 N·m	6-10 lb ft
Heat Shield to Transmission Bolt	17 N·m	13 lb ft
Line Pressure Plug	8.0-14.0 N·m	6-10 lb ft
Manual Shaft to Inside Detent Lever Nut	27.0-34.0 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
Oil Pan to Transmission Case Bolt	11 N·m	97 lb in

Application	Specification	
	Metric	English
Oil Passage Cover to Case Bolt	8-14.0 N·m	6-10 lb ft
Park Brake Bracket to Case Bolt	27.0-34.0 N·m	20-25 lb ft
Park/Neutral Position Switch Screw	3 N·m	27 lb in
Plate to Case Bolt (Shipping)	27.0-34.0 N·m	20-25 lb ft
Plate to Converter Bolt (Shipping)	27.0-34.0 N·m	20-25 lb ft
Plug Assembly, Automatic Transmission Oil Pan (C/K)	30-40 N·m	22.1-29.5 lb ft
Plug Assembly, Automatic Transmission Oil Pan (Y)	28-32 N·m	20.7-23.6 lb ft
Pressure Control Solenoid Bracket to Valve Body Bolt	8.0-14.0 N·m	6-10 lb ft
Pump Assembly to Case Bolt	26.0-32.0 N·m	19-24 lb ft
Pump Cover to Pump Body Bolt	20.0-27.0 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	7.7-10 lb ft
Stud, Automatic Transmission Case Extension (Y-car)	18.0-22.0 N·m	13-16 lb ft
TCC Solenoid Assembly to Case Bolt	8.0-14.0 N·m	6-10 lb ft
Trans Mount to Transmission Bolt	25 N·m	18 lb ft
Transmission Fluid Pressure Manual Valve Position Switch to Valve Body Bolt	8.0-14.0 N·m	6-10 lb ft
Transmission Oil Cooler Pipe Fitting	35.0-41.0 N·m	26-30 lb ft
Transmission Oil Pan to Case Bolt	9.5-13.8 N·m	7-10 lb ft
Transmission to Engine Bolt	47 N·m	35 lb ft
Valve Body to Case Bolt	8.0-14.0 N·m	6-10 lb ft

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 consists 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 transmission shift lock control solenoid 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.

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
CO ₂	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
H ₂ O	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
HO ₂ S	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	
O ₂	Oxygen
O ₂ S	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
SO ₂	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
ln/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

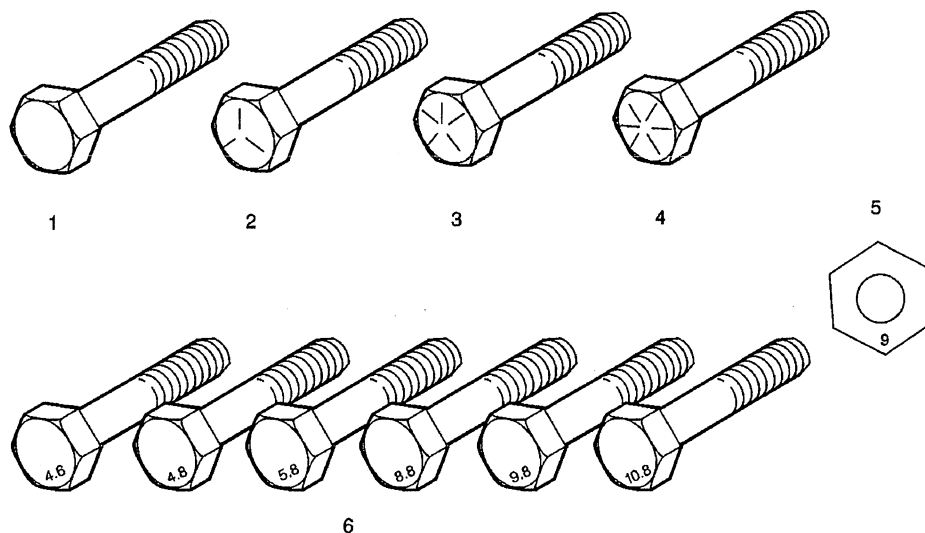
Metric Fasteners

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

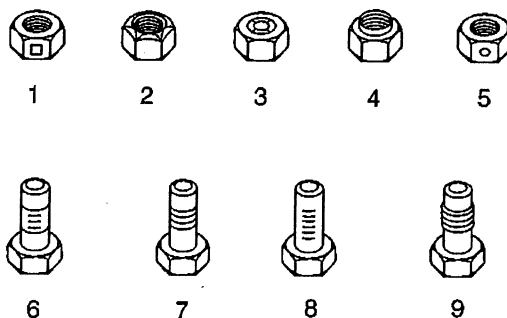
These fasteners accomplish the thread interface by a designed distortion or deformation in the fastener.

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 1WT, 1SJ, 1SK, 1SL and 1SM available on C*15706 Models.	LS			Z71	LT
			1WT ¹	1SJ ¹	1SK ¹	1SL ¹	1SM ¹
		Air bags , frontal, dual-stage, driver and right front passenger, includes Passenger Sensing System (front passenger air bag status on inside rearview mirror) 1 - 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	S ¹	S ¹	S ¹
		Assist handles , front passenger and outboard 2nd row seats	S	S	S	S	S
		Console , overhead mini includes map lights and rear seat HVAC controls 1 - Includes sunroof controls when (CF5) Sunroof is ordered.	S	S	S ¹	S ¹	S ¹
	K34	Cruise control , electronic with set and resume speed, includes telltale in instrument panel cluster	S	S	S	S	S
	C49	Defogger , rear-window, electric	S	S	S	S	S
	AU3	Door locks , power programmable, includes lockout protection	S	S	S	S	S
		Driver Information Center , monitors numerous systems depending on vehicle equipment	S	S	S	S	S
	B30	Floor covering , color-keyed carpeting	S	S	S	S	S
	B37	NEW! Floor mats , color-keyed, vinyl front and 2nd row, removable	S	S	S	--	--
		Headliner , cloth	S	S	S	S	S
		Instrumentation , analog, includes speedometer, odometer with trip odometer, fuel level, voltmeter, engine temperature, oil pressure and tachometer	S	S	S	S	S
		Key , single, 2-sided	S	S	S	S	S
	AU0	Keyless entry , remote, includes 2 transmitters, panic button and content theft alarm	S	S	S	S	S
		LATCH system , (Lower Anchors and Top tethers for CHildren), for child safety seats	S	S	S	S	S
		Lighting , dome lamp, driver and passenger side door switch with delayed entry feature, cargo lamps, door handle or keyless remote activated illuminated entry, map lights in front and 2nd seat positions	S	S	S	S	S
	DF5	Mirror , inside rearview, 8-point compass, outside temperature indicator and right front passenger air bag status	S	S	S	S	S

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1WT, 1SJ, 1SK, 1SL and 1SM available on C*15706 Models.	LS			Z71	LT
			1WT ¹	1SJ ¹	1SK ¹	1SL ¹	1SM ¹
	UE1	OnStar , 1-year Safe and Sound Service, includes automatic notification of air bag deployment, stolen vehicle tracking, emergency services, roadside assistance, remote door unlock, remote horn and lights, GM Goodwrench remote diagnostics, AccidentAssist and online concierge. Drivers can also obtain the available voice-activated, hands-free Personal Calling service and Virtual Advisor that provides location-based traffic and weather reports and other personalized information 1 - Visit www.onstar.com for system information and details.	S ¹	S ¹	S ¹	S ¹	S ¹
		Power outlets , auxiliary, 2 on instrument panel, 1 in cargo area, 12-volt	S	S	S	S	S
		Safety belts , 3-point, driver and front passenger, in all seating positions except center seating position in 1st and 3rd row which are lap only	S	S	S	S	S
	AE7	Seats , front Custom Cloth 40/20/40 split-bench, 3-passenger, driver and passenger manual reclining, outboard head restraints, center fold-down storage armrest, 6-way power adjustable driver seat and rear storage pockets	S	S	--	--	--
	UQ3	Sound system feature , 8-speakers	S	S	--	--	--
		Steering column , Tilt-Wheel, adjustable, includes brake/transmission shift interlock	S	S	S	S	S
	NP5	Steering wheel , leather-wrapped rim, Black	S	S	S	S	S
	UK3	Steering wheel , mounted controls, includes audio and driver information center controls	S	S	S	S	S
		Theft-deterrent system , PASSlock II	S	S	S	S	S
	UJ6	Tire pressure monitoring system (does not apply to spare tire)	S	S	S	S	S
	DH6	Visors , padded, driver and passenger side with cloth trim, extends on rod, illuminated vanity mirrors and corner storage pockets on back of visors	S	S	S	S	S
		Warning tones , headlamp on, key-in-ignition, driver and right front passenger safety belt unfasten, turn signal on	S	S	S	S	S
	A31	Windows , power, includes driver express-down and lockout features	S	S	S	S	S
		Air dam , Gray	S	S	S	--	S
BVE		Assist steps , Black, mounted between front and rear wheels	--	A	A	--	S
	E52	Body , liftgate with liftglass, rear door system, includes rear-window wiper/washer	S	S	S	S	S
	VG3	Bumper , front, chrome 1 - Refer to Color Compatibility chart for Matte Black vs. color-keyed top pad.	S ¹	S ¹	S ¹	--	S ¹
	VB3	Bumper , rear, chrome step, includes pad	S	S	S	--	S

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1WT, 1SJ, 1SK, 1SL and 1SM available on C*15706 Models.	LS			Z71	LT
			1WT ¹	1SJ ¹	1SK ¹	1SL ¹	1SM ¹
		Daytime running lamps , includes automatic exterior lamp control	S	S	S	S	S
		Door handles , Matte Black	S	S	S	--	--
	T96	Fog lamps , front, rectangular, halogen	S	S	S	--	S
	AJ1	Glass , Solar-Ray deep tinted (all windows except light tinted glass on windshield, driver and front passenger)	S	S	S	S	S
	V22	Grille , chrome surround	S	S	S	--	S
		Headlamps , dual halogen composite, includes flash-to-pass feature and automatic lamp control	S	S	S	S	S
	V54	Luggage rack , roof-mounted, Black, side rails only 1 - Center rails available in (PDC) Cargo Package. 2 - Includes center rails.	S	S ¹	S ¹	--	S ²
	DL8	Mirrors , outside rearview, foldaway, power adjustable, heated	S	S	S	--	--
B85		Moldings , bodyside 1 - Bodyside moldings are Matte Black. 2 - Refer to Color Compatibility chart for Matte Black vs. color-keyed moldings.	--	A ¹	A ¹	--	S ²
	V76	Recovery hooks , front, frame-mounted 1 - Requires 4WD Models.	--	S ¹	S ¹	S	S ¹
		Tire carrier , lockable, outside spare, winch-type mounted under frame at rear	S	S	S	S	S
		Tire , spare, full-size, 16" (40.6 cm) steel wheel located at rear underbody of vehicle, blackwall	S	S	S	S	S
	QNL	Tires , P245/75R16, all-season, White outlined-letter	S	--	--	--	--
	QB5	Wheels , 4 - 16" X 6.5" (40.6 cm x 16.5 cm) steel disc	S	--	--	--	--
	PF9	Wheels , 4 - 16" x 7" (40.6 cm x 17.8 cm) 6-lug cast aluminum, includes steel spare	--	S	S	--	--
	N88	Wheels , 4 - 17" x 7" (43.2 cm x 17.8 cm) cast aluminum, machined, includes 16" (40.6 cm) steel spare	--	--	--	S	--
	P25	Wheels , 4 - 17" x 7.5" (43.2 cm x 19.1 cm) 5-spoke aluminum, includes 16" x 6.5" (40.6 cm x 16.5 cm) steel spare	--	--	--	--	S
		Wipers , intermittent, front, wet-arm with pulse washers	S	S	S	S	S
	KW1	Alternator , 160 amps	S	S	S	S	S
		Battery , heavy-duty, 600 cold-cranking amps, includes rundown protection and retained accessory power	S	S	S	S	S
		Brakes , 4-wheel antilock, 4-wheel disc, hydroboost	S	S	S	S	S
	LR4	Engine , Vortec 4800 V8 SFI (285 HP [212.3 kW] @ 5200 rpm, 295 lb.-ft. [398.2 N-m] @ 4000 rpm) 1 - 2WD models only.	S ¹	S ¹	--	--	--

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1WT, 1SJ, 1SK, 1SL and 1SM available on C*15706 Models.	LS			Z71	LT
			1WT ¹	1SJ ¹	1SK ¹	1SL ¹	1SM ¹
	C5U	GVWR, 6800 lbs. (3084 kg) 1 - Included and only available with 2WD model when (AS3) Seats, rear 3rd row 50/50 split-bench is ordered. - Included and only available with 4WD model when (AS3) Seats, rear 3rd row 50/50 split-bench is not ordered. 2 - 2WD models only.	A ¹	A ¹	A ¹	A ¹	S ²
	C5H	GVWR, 6900 lbs. (3130 kg) 1 - Requires 4WD Model. - Included and only available when (AS3) Seats, rear 3rd row 50/50 split-bench is ordered. 2 - 4WD models only.	--	A ¹	A ¹	--	S ²
	JL4	StabiliTrak, stability control, includes Proactive Roll Avoidance	S	S	S	S	S
		Steering, power	S	S	S	S	S
		Suspension, front, independent torsion bar, and stabilizer bar	S	S	S	S	S
		Suspension, rear, multi-link with coil springs	S	S	S	S	S
	ZQ1	Suspension Package, Smooth Ride	S	--	--	--	--
		Trailer wiring harness, 7-wire	S	S	S	S	S
	NP8	Transfer case, electronic Autotrac, includes push-button controls 1 - Requires 4WD models.	S ¹	S ¹	S ¹	S ¹	S ¹
	M30	Transmission, 4-speed automatic, electronically controlled with overdrive and tow/haul mode	S	S	S	S	S

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 1WT, 1SJ, 1SK, 1SL and 1SM available on C*15706 Models.	LS			Z71	LT
			1WT ¹	1SJ ¹	1SK ¹	1SL ¹	1SM ¹
	CJ3	Air conditioning , tri-zone, manual, individual climate settings for driver, right front passenger and rear passengers, includes front controls 1 - Upgradeable to (CJ2) Air conditioning, tri-zone, automatic when (CF5) Sunroof, power is ordered. 2 - Upgradeable to (CJ2) Air conditioning, tri-zone, automatic when (CF5) Sunroof, power or (U42) Entertainment system is ordered.	■	■	□ ¹	□ ²	--
	CJ2	Air conditioning , tri-zone, automatic, individual climate settings for driver, right front passenger and rear passengers, includes front and rear HVAC systems 1 - Included and only available when (CF5) Sunroof, power is ordered. 2 - Included and only available when (CF5) Sunroof, power or (U42) Entertainment system is ordered.	--	--	A ¹	A ²	■
PDC		Cargo Package , includes (RYJ) Cargo shade, (AP9) Cargo net, (B39) Cargo mat and (V1K) Luggage rack center rails. When (AS3) Seats, rear 3rd row 50/50 split-bench is ordered, package does not include (RYJ) Cargo shade or (B39) Cargo mat	--	A	A	■	--
	PDC	Cargo Package , includes (AP9) Cargo net and (V1K) Luggage rack center rails	--	--	--	--	■
	D07	Console , floor, includes storage area, map pocket, cupholders and integrated 2nd row audio controls	--	--	■	■	■
	B58	Floormats , color-keyed, carpeted front and 2nd row, removable	--	--	--	■	■
	A95	Seats , front Custom Cloth reclining buckets, includes adjustable head restraints, inboard armrests, 6-way power adjustable driver seat, floor console and rear storage pockets 1 - Upgradeable to (A95) Seats, front leather seating surfaces reclining buckets.	--	--	□ ¹	--	--
	AN3	Seats , front leather seating surfaces power reclining full-feature buckets, includes driver and passenger adjustable head restraints, power lumbar, 10-way power adjustable, inboard armrests, heated seat cushion and seatbacks, 2-position driver-side memory, storage pockets and floor console	--	--	--	■	■
	AT5	Seats , middle Custom Cloth 60/40 split-folding bench, 3-passenger with center armrest 1 - Upgradeable to (AT5) Seats, middle leather appointed 60/40 split-folding bench.	■	■	□ ¹	--	--

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1WT, 1SJ, 1SK, 1SL and 1SM available on C*15706 Models.	LS			Z71	LT
			1WT ¹	1SJ ¹	1SK ¹	1SL ¹	1SM ¹
	AT5	Seats , middle leather appointed 60/40 split-folding bench, 3-passenger with center armrest 1 - Included and only available with (A95) Seats, front leather seating surfaces reclining buckets. 2 - Upgradeable to (AL4) Seats, middle leather appointed buckets.	--	--	A ¹	□ ²	□ ²
AS3		Seats , rear 3rd row vinyl 50/50 split-bench, 3-passenger, removable 1 - Requires (AL4) Seats, middle leather appointed buckets. Includes (C5U) GVWR, 6800 lbs. (3084 kg).	--	--	A	A ¹	■
	UB0	NEW! Sound system , ETR AM/FM stereo with CD player, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume and Radio Data System (RDS) 1 - Upgradeable to (UC6) Sound system, ETR AM/FM stereo with in-dash 6-disc CD changer.	■	■	□ ¹	--	--
UC6		Sound system , ETR AM/FM stereo with in-dash 6-disc CD changer, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume, TheftLock and Radio Data System (RDS) 1 - Upgradeable to (UM8) Sound system, ETR AM/FM stereo with CD player, Touch-screen Navigation Radio (TNR).	--	--	A	□ ¹	□ ¹
	UQ7	Sound system feature , Bose Premium speaker system, 9 speakers, includes subwoofer in center console	--	--	■	■	■
	UK6	Sound system feature , rear audio controls, includes dual headphone jacks (headphones not included), power outlet and controls for volume, station selection and media	--	--	■	■	■
U2K		Sound system feature , XM Satellite Radio features 67 channels of 100% commercial-free music included in its over 150 channels of the best in music, news, sports, talk, comedy, XM Instant Traffic and Weather, and more. Digital quality sound with coast-to-coast signal coverage. Three trial months - no obligation. 1 - Subscription fees apply. Available only in the 48 contiguous U.S.	--	A ¹	A ¹	A ¹	■ ¹
ZM9		Universal Home Remote , includes garage door opener, programmable 1 - Included with (CF5) Sunroof, power.	--	--	A ¹	■	■
		Air dam , Dark Gray, unique	--	--	--	■	--
		Assist steps , tubular, mounted between front and rear wheels at bottom of rocker panel	--	--	--	■	--
	VB5	Bumper , front, painted	--	--	--	■	--
	V43	Bumper , rear, painted step, includes pad	--	--	--	■	--
		Door handles , color-keyed	--	--	--	■	■
		Fog Lamps , front, round, halogen	--	--	--	■	--
		Grille , color-keyed	--	--	--	■	--

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1WT, 1SJ, 1SK, 1SL and 1SM available on C*15706 Models.	LS			Z71	LT
			1WT ¹	1SJ ¹	1SK ¹	1SL ¹	1SM ¹
	G63	Luggage rack , roof-mounted, Black, includes cross rails and integral roller to assist in loading items when in park	--	--	--	■	--
	DL3	Mirrors , outside rearview, power folding, power adjustable, heated, color-keyed, driver side electrochromic (light-sensitive auto dimming), turn signal in glass, with ground illumination and curb-tilt	--	--	--	■	■
		Moldings , lower rocker	--	--	--	■	--
	QMJ	Tires , P265/70R16, all-season touring, blackwall 1 - Upgradeable to (QMK) Tires, P265/70R16, all-season touring, White outlined-letter.	--	□ ¹	□ ¹	--	--
	QJP	Tires , P265/70R17, on-/off-road, blackwall	--	--	--	■	--
	QAN	Tires , P265/70R17, all-season, blackwall 1 - Upgradeable to (QAS) Tires, P265/70R17, all-season, White outlined-letter.	--	--	--	--	□ ¹
B71		Wheel flares , front and rear (refer to Color Compatibility chart for Matte Black vs. color-keyed wheel flares)	--	A	A	■	A
	K47	Air cleaner , high-capacity	--	--	--	■	--
	KNP	Cooling , external transmission oil cooler, auxiliary, heavy-duty air-to-oil 1 - Included and only available with (Z82) Trailering equipment, heavy-duty.	A ¹	A ¹	A ¹	■	■
G80		Differential , locking, heavy-duty, rear	A	A	A	■	A
LM7		Engine , Vortec 5300 V8 SFI (295 HP [219.7 kW] @ 5200 rpm, 335 lb.-ft. [452.3 N-m] @ 4000 rpm) 1 - Standard on 4WD Models.	A ¹	A ¹	■	■	■
	GU5	Rear axle , 3.23 ratio 1 - Requires 2WD Models. Upgradeable to (GT4) Rear axle, 3.73 ratio.	□ ¹	□ ¹	□ ¹	□ ¹	□ ¹
	GU6	Rear axle , 3.42 ratio 1 - Requires 4WD Models. Upgradeable to (GT5) Rear axle, 4.10 ratio.	□ ¹	□ ¹	□ ¹	□ ¹	□ ¹
NZZ		Skid Plate Package , off-road, with aluminum front underbody shield starting behind front bumper and running to 1st cross-member protecting front underbody, oil pan, differential case and steel transfer case frame-mounted shields 1 - Requires 4WD Models.	--	A ¹	A ¹	■	A ¹
	ZW7	Suspension Package , Premium Smooth Ride 1 - Upgradeable to (Z55) Suspension Package, Autoride. 2 - Not available on CK15706.	--	□ ¹	□ ¹	■ ²	□ ¹
	Z71	Suspension Package , Off-Road, includes 1.81" (46 mm) gas shocks, off-road jounce bumpers, (NZZ) Skid Plate Package and (K47) Air cleaner, high capacity 1 - Not available on CC15706.	--	--	--	■ ¹	--

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1WT, 1SJ, 1SK, 1SL and 1SM available on C*15706 Models.	LS			Z71	LT
			1WT ¹	1SJ ¹	1SK ¹	1SL ¹	1SM ¹
Z82		Trailering equipment , heavy-duty, includes trailering hitch platform, 7-lead wiring connector, auxiliary transmission oil cooler and trailer brake pre-wire harness 1 - Required when (U42) Entertainment system, rear seat and (CF5) Sunroof, power are ordered together.	A	A	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 1WT, 1SJ, 1SK, 1SL and 1SM available on C*15706 Models.	LS			Z71	LT
			1WT ¹	1SJ ¹	1SK ¹	1SL ¹	1SM ¹
	CJ3	Air conditioning , tri-zone, manual, individual climate settings for driver, right front passenger and rear passengers, includes front controls 1 - Upgradeable to (CJ2) Air conditioning, tri-zone, automatic when (CF5) Sunroof, power is ordered. 2 - Upgradeable to (CJ2) Air conditioning, tri-zone, automatic when (CF5) Sunroof, power or (U42) Entertainment system is ordered.	■	■	□ ¹	□ ²	--
	CJ2	Air conditioning , tri-zone, automatic, individual climate settings for driver, right front passenger and rear passengers, includes front and rear HVAC systems 1 - Included and only available when (CF5) Sunroof, power is ordered. 2 - Included and only available when (CF5) Sunroof, power or (U42) Entertainment system is ordered.	--	--	A ¹	A ²	■
PDC		Cargo Package , includes (RYJ) Cargo shade, (AP9) Cargo net, (B39) Cargo mat and (V1K) Luggage rack center rails. When (AS3) Seats, rear 3rd row 50/50 split-bench is ordered, package does not include (RYJ) Cargo shade or (B39) Cargo mat	--	A	A	■	--
	PDC	Cargo Package , includes (AP9) Cargo net and (V1K) Luggage rack center rails	--	--	--	--	■
	D07	Console , floor, includes storage area, map pocket, cupholders and integrated 2nd row audio controls	--	--	■	■	■
	B58	Floormats , color-keyed, carpeted front and 2nd row, removable	--	--	--	■	■
	A95	Seats , front Custom Cloth reclining buckets, includes adjustable head restraints, inboard armrests, 6-way power adjustable driver seat, floor console and rear storage pockets 1 - Upgradeable to (A95) Seats, front leather seating surfaces reclining buckets.	--	--	□ ¹	--	--
	AN3	Seats , front leather seating surfaces power reclining full-feature buckets, includes driver and passenger adjustable head restraints, power lumbar, 10-way power adjustable, inboard armrests, heated seat cushion and seatbacks, 2-position driver-side memory, storage pockets and floor console	--	--	--	■	■
	AT5	Seats , middle Custom Cloth 60/40 split-folding bench, 3-passenger with center armrest 1 - Upgradeable to (AT5) Seats, middle leather appointed 60/40 split-folding bench.	■	■	□ ¹	--	--

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1WT, 1SJ, 1SK, 1SL and 1SM available on C*15706 Models.	LS			Z71	LT
			1WT ¹	1SJ ¹	1SK ¹	1SL ¹	1SM ¹
	AT5	Seats , middle leather appointed 60/40 split-folding bench, 3-passenger with center armrest 1 - Included and only available with (A95) Seats, front leather seating surfaces reclining buckets. 2 - Upgradeable to (AL4) Seats, middle leather appointed buckets.	--	--	A ¹	□ ²	□ ²
AS3		Seats , rear 3rd row vinyl 50/50 split-bench, 3-passenger, removable 1 - Requires (AL4) Seats, middle leather appointed buckets. Includes (C5U) GVWR, 6800 lbs. (3084 kg).	--	--	A	A ¹	■
	UB0	NEW! Sound system , ETR AM/FM stereo with CD player, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume and Radio Data System (RDS) 1 - Upgradeable to (UC6) Sound system, ETR AM/FM stereo with in-dash 6-disc CD changer.	■	■	□ ¹	--	--
UC6		Sound system , ETR AM/FM stereo with in-dash 6-disc CD changer, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume, TheftLock and Radio Data System (RDS) 1 - Upgradeable to (UM8) Sound system, ETR AM/FM stereo with CD player, Touch-screen Navigation Radio (TNR).	--	--	A	□ ¹	□ ¹
	UQ7	Sound system feature , Bose Premium speaker system, 9 speakers, includes subwoofer in center console	--	--	■	■	■
	UK6	Sound system feature , rear audio controls, includes dual headphone jacks (headphones not included), power outlet and controls for volume, station selection and media	--	--	■	■	■
U2K		Sound system feature , XM Satellite Radio features 67 channels of 100% commercial-free music included in its over 150 channels of the best in music, news, sports, talk, comedy, XM Instant Traffic and Weather, and more. Digital quality sound with coast-to-coast signal coverage. Three trial months - no obligation. 1 - Subscription fees apply. Available only in the 48 contiguous U.S.	--	A ¹	A ¹	A ¹	■ ¹
ZM9		Universal Home Remote , includes garage door opener, programmable 1 - Included with (CF5) Sunroof, power.	--	--	A ¹	■	■
		Air dam , Dark Gray, unique	--	--	--	■	--
		Assist steps , tubular, mounted between front and rear wheels at bottom of rocker panel	--	--	--	■	--
	VB5	Bumper , front, painted	--	--	--	■	--
	V43	Bumper , rear, painted step, includes pad	--	--	--	■	--
		Door handles , color-keyed	--	--	--	■	■
		Fog Lamps , front, round, halogen	--	--	--	■	--
		Grille , color-keyed	--	--	--	■	--

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1WT, 1SJ, 1SK, 1SL and 1SM available on C*15706 Models.	LS			Z71	LT
			1WT ¹	1SJ ¹	1SK ¹	1SL ¹	1SM ¹
	G63	Luggage rack , roof-mounted, Black, includes cross rails and integral roller to assist in loading items when in park	--	--	--	■	--
	DL3	Mirrors , outside rearview, power folding, power adjustable, heated, color-keyed, driver side electrochromic (light-sensitive auto dimming), turn signal in glass, with ground illumination and curb-tilt	--	--	--	■	■
		Moldings , lower rocker	--	--	--	■	--
	QMJ	Tires , P265/70R16, all-season touring, blackwall 1 - Upgradeable to (QMK) Tires, P265/70R16, all-season touring, White outlined-letter.	--	□ ¹	□ ¹	--	--
	QJP	Tires , P265/70R17, on-/off-road, blackwall	--	--	--	■	--
	QAN	Tires , P265/70R17, all-season, blackwall 1 - Upgradeable to (QAS) Tires, P265/70R17, all-season, White outlined-letter.	--	--	--	--	□ ¹
B71		Wheel flares , front and rear (refer to Color Compatibility chart for Matte Black vs. color-keyed wheel flares)	--	A	A	■	A
	K47	Air cleaner , high-capacity	--	--	--	■	--
	KNP	Cooling , external transmission oil cooler, auxiliary, heavy-duty air-to-oil 1 - Included and only available with (Z82) Trailering equipment, heavy-duty.	A ¹	A ¹	A ¹	■	■
G80		Differential , locking, heavy-duty, rear	A	A	A	■	A
LM7		Engine , Vortec 5300 V8 SFI (295 HP [219.7 kW] @ 5200 rpm, 335 lb.-ft. [452.3 N-m] @ 4000 rpm) 1 - Standard on 4WD Models.	A ¹	A ¹	■	■	■
	GU5	Rear axle , 3.23 ratio 1 - Requires 2WD Models. Upgradeable to (GT4) Rear axle, 3.73 ratio.	□ ¹	□ ¹	□ ¹	□ ¹	□ ¹
	GU6	Rear axle , 3.42 ratio 1 - Requires 4WD Models. Upgradeable to (GT5) Rear axle, 4.10 ratio.	□ ¹	□ ¹	□ ¹	□ ¹	□ ¹
NZZ		Skid Plate Package , off-road, with aluminum front underbody shield starting behind front bumper and running to 1st cross-member protecting front underbody, oil pan, differential case and steel transfer case frame-mounted shields 1 - Requires 4WD Models.	--	A ¹	A ¹	■	A ¹
	ZW7	Suspension Package , Premium Smooth Ride 1 - Upgradeable to (Z55) Suspension Package, Autoride. 2 - Not available on CK15706.	--	□ ¹	□ ¹	■ ²	□ ¹
	Z71	Suspension Package , Off-Road, includes 1.81" (46 mm) gas shocks, off-road jounce bumpers, (NZZ) Skid Plate Package and (K47) Air cleaner, high capacity 1 - Not available on CC15706.	--	--	--	■ ¹	--

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1WT, 1SJ, 1SK, 1SL and 1SM available on C*15706 Models.	LS			Z71	LT
			1WT ¹	1SJ ¹	1SK ¹	1SL ¹	1SM ¹
Z82		Trailer equipment , heavy-duty, includes trailering hitch platform, 7-lead wiring connector, auxiliary transmission oil cooler and trailer brake pre-wire harness 1 - Required when (U42) Entertainment system, rear seat and (CF5) Sunroof, power are ordered together.	A	A	A ¹	■	■
ADDITIONAL OPTIONS							
Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1WT, 1SJ, 1SK, 1SL and 1SM available on C*15706 Models.	LS			Z71	LT
			1WT ¹	1SJ ¹	1SK ¹	1SL ¹	1SM ¹
AJ7		Air bags , side-impact, driver and right front passenger 1 - 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	A ¹	A ¹	A ¹	A ¹
PDC		Cargo Package , includes (RYJ) Cargo shade, (AP9) Cargo net, (B39) Cargo mat and (V1K) Luggage rack center rails. When (AS3) Seats, rear 3rd row 50/50 split-bench is ordered, package does not include (RYJ) Cargo shade or (B39) Cargo mat	--	A	A	■	--
JF4		Pedals , power, adjustable	--	A	A	A	A
A95		Seats , front leather seating surfaces reclining buckets, includes adjustable head restraints, inboard armrests, 6-way power adjustable driver seat, floor console and rear storage pockets	--	--	A	--	--
AL4		Seats , middle leather appointed buckets, reclining 1 - Requires (AS3) Seats, rear 3rd row vinyl 50/50 split-bench.	--	--	--	A ¹	A
AS3		Seats , rear 3rd row Custom Cloth 50/50 split-bench, 3-passenger, removable	--	A	A	--	--
AS3		Seats , rear 3rd row vinyl 50/50 split-bench, 3-passenger, removable 1 - Requires (AL4) Seats, middle leather appointed buckets. Includes (C5U) GVWR, 6800 lbs. (3084 kg).	--	--	A	A ¹	■
PCV		NEW! Smart Select Package , includes (PDC) Cargo Package, (AS3) Seats, rear 3rd row Custom Cloth 50/50 split-bench, (G80) Differential, locking and (Z82) Trailering equipment, heavy-duty	--	A	A	--	--
R9I		NEW! Smart Select Package discount not desired	--	A	A	--	--
UC6		Sound system , ETR AM/FM stereo with in-dash 6-disc CD changer, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume, TheftLock and Radio Data System (RDS) 1 - Upgradeable to (UM8) Sound system, ETR AM/FM stereo with CD player, Touch-screen Navigation Radio (TNR).	--	--	A	□ ¹	□ ¹
UM8		Sound system , ETR AM/FM stereo with CD player, Touch-screen Navigation Radio (TNR), includes seek-and-scan, auto-tone control and Radio Data System (RDS) 1 - Not available in AK, PR or VI.	--	--	--	A ¹	A ¹

ADDITIONAL OPTIONS						
Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1WT, 1SJ, 1SK, 1SL and 1SM available on C*15706 Models.	LS			Z71
			1WT ¹	1SJ ¹	1SK ¹	1SL ¹
U2K		Sound system feature , XM Satellite Radio features 67 channels of 100% commercial-free music included in its over 150 channels of the best in music, news, sports, talk, comedy, XM Instant Traffic and Weather, and more. Digital quality sound with coast-to-coast signal coverage. Three trial months - no obligation. 1 - Subscription fees apply. Available only in the 48 contiguous U.S.	--	A ¹	A ¹	A ¹
U42		Entertainment system , rear seat, includes DVD player with remote control, overhead display, 2 sets of wireless infrared headphones, auxiliary audio/video jacks, remote game plug-in and mute button in overhead console 1 - Includes (CJ2) Air conditioning, tri-zone, automatic.	--	--	--	A ¹
PCR		Sun, Sound and Entertainment Package , includes (U2K) Sound system feature, XM Satellite Radio, (U42) Entertainment system, rear seat and (CF5) Sunroof, power 1 - Package does not include (U2K) Sound system feature, XM Satellite Radio when ordered outside of the 48 contiguous United States.	--	--	--	A ¹
R6Q		Sun, Sound and Entertainment Package discount not desired 1 - Required when content within option package is ordered and entire package is not desired.	--	--	--	A ¹
CF5		Sunroof , power, tilt-sliding, electric with express-open and wind deflector 1 - Includes (CJ2) Air conditioning, tri-zone, automatic and (ZM9) Universal Home Remote.	--	--	A ¹	A ¹
ZM9		Universal Home Remote , includes garage door opener, programmable 1 - Included with (CF5) Sunroof, power.	--	--	A ¹	■
BVE		Assist steps , Black, mounted between front and rear wheels	--	A	A	--
V20		Grille brush guard , Black 1 - Requires CK15706.	--	--	--	A ¹
B85		Moldings , bodyside 1 - Bodyside moldings are Matte Black. 2 - Refer to Color Compatibility chart for Matte Black vs. color-keyed moldings.	--	A ¹	A ¹	--
QMK		Tires , P265/70R16, all-season touring, White outlined-letter	--	A	A	--
B71		Wheel flares , front and rear (refer to Color Compatibility chart for Matte Black vs. color-keyed wheel flares)	--	A	A	■
G80		Differential , locking, heavy-duty, rear	A	A	A	■
FE9		Emissions , Federal requirements	A	A	A	A
YF5		Emissions , California state requirements	A	A	A	A

ADDITIONAL OPTIONS							
Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1WT, 1SJ, 1SK, 1SL and 1SM available on C*15706 Models.	LS			Z71	LT
			1WT ¹	1SJ ¹	1SK ¹	1SL ¹	1SM ¹
NE1		Emissions , Maine, Massachusetts, New York or Vermont state requirements	A	A	A	A	A
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	A	A	A	A
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	A ¹	A ¹	A 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	A ¹	A ¹	A ¹	A ¹
LM7		Engine , Vortec 5300 V8 SFI (295 HP [219.7 kW] @ 5200 rpm, 335 lb.-ft. [452.3 N-m] @ 4000 rpm) 1 - Standard on 4WD Models.	A ¹	A ¹	■	■	■
L59		Engine , Vortec 5300 V8 SFI Flex-Fuel, capable of running on unleaded or up to 85% ethanol (295 HP [219.7 kW] @ 5200 rpm, 335 lb.-ft. [452.3 N-m] @ 4000 rpm)	--	A	A	A	A
K05		Engine block heater	A	A	A	A	A
PCX		Joe Gibbs Performance Package 1 (Requires Ship-Thru) 1 - Requires (LM7) Engine, Vortec 5300 V8 SFI, (M30) Transmission, 4-speed automatic, (B71) Wheel flares, front and rear, (G80) Differential, locking, heavy-duty, rear, (GT4) Rear axle, 3.73 ratio (for CC15706) or (GT5) Rear axle, 4.10 ratio (for CK15706), (UK3) Steering wheel, mounted controls and (Z82) Trailing equipment, heavy-duty. Requires SEO (VDS) Ship-Thru to SVEA. Required options cannot be substituted or upgraded. Not available with (AJ7) Air bags, side-impact, driver and right front passenger or (Z55) Suspension Package, Autoride. For more information, please contact Joe Gibbs Performance at 877-547-2677 or www.joegibbsperformance.com.	--	--	A ¹	--	--

ADDITIONAL OPTIONS							
Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1WT, 1SJ, 1SK, 1SL and 1SM available on C*15706 Models.	LS			Z71	LT
			1WT ¹	1SJ ¹	1SK ¹	1SL ¹	1SM ¹
PCX		Joe Gibbs Performance Package 2 (Requires Ship-Thru) 1 - Requires (LM7) Engine, Vortec 5300 V8 SFI, (M30) Transmission, 4-speed automatic, (B71) Wheel flares, front and rear, (G80) Differential, locking, heavy-duty, rear, (GT4) Rear axle, 3.73 ratio (for CC15706) or (GT5) Rear axle, 4.10 ratio (for CK15706), (UK3) Steering wheel, mounted controls and (Z82) Trailing equipment, heavy-duty. Requires SEO (VDS) Ship-Thru to SVEA. Required options cannot be substituted or upgraded. Not available with (AJ7) Air bags, side-impact, driver and right front passenger or (Z55) Suspension Package, Autoride. For more information, please contact Joe Gibbs Performance at 877-547-2677 or www.joegibbsperformance.com.	--	--	--	--	A ¹
GT4		Rear axle, 3.73 ratio 1 - Requires 2WD Models.	A ¹	A ¹	A ¹	A ¹	A ¹
GT5		Rear axle, 4.10 ratio 1 - Requires 4WD Models.	A ¹	A ¹	A ¹	A ¹	A ¹
NZZ		Skid Plate Package , off-road, with aluminum front underbody shield starting behind front bumper and running to 1st cross-member protecting front underbody, oil pan, differential case and steel transfer case frame-mounted shields 1 - Requires 4WD Models.	--	A ¹	A ¹	■	A ¹
Z55		Suspension Package , Autoride, bi-state variable shock dampening and rear air-assisted load-leveling	--	A	A	--	A
Z82		Trailing equipment , heavy-duty, includes trailing hitch platform, 7-lead wiring connector, auxiliary transmission oil cooler and trailer brake pre-wire harness 1 - Required when (U42) Entertainment system, rear seat and (CF5) Sunroof, power are ordered together.	A	A	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 1WT, 1SJ, 1SK, 1SL and 1SM available on C*15706 Models.	LS			Z71	LT
			1WT ¹	1SJ ¹	1SK ¹	1SL ¹	1SM ¹
	GU5	Rear axle, 3.23 ratio 1 - Requires 2WD Models. Upgradeable to (GT4) Rear axle, 3.73 ratio.	□ ¹	□ ¹	□ ¹	□ ¹	□ ¹
	GU6	Rear axle, 3.42 ratio 1 - Requires 4WD Models. Upgradeable to (GT5) Rear axle, 4.10 ratio.	□ ¹	□ ¹	□ ¹	□ ¹	□ ¹
	CJ3	Air conditioning, tri-zone, manual 1 - Upgradeable to (CJ2) Air conditioning, tri-zone, automatic when (CF5) Sunroof, power is ordered. 2 - Upgradeable to (CJ2) Air conditioning, tri-zone, automatic when (CF5) Sunroof, power or (U42) Entertainment system is ordered.	■	■	□ ¹	□ ²	
	AT5	Seats, middle Custom Cloth 60/40 split-folding bench 1 - Upgradeable to (AT5) Seats, middle leather appointed 60/40 split-folding bench.	■	■	□ ¹		
	UB0	NEW! Sound system, ETR AM/FM stereo with CD player 1 - Upgradeable to (UC6) Sound system, ETR AM/FM stereo with in-dash 6-disc CD changer.	■	■	□ ¹		
	ZW7	Suspension Package, Premium Smooth Ride 1 - Upgradeable to (Z55) Suspension Package, Autoride.		□ ¹	□ ¹	■	□ ¹
	QMJ	Tires, P265/70R16, all-season touring, blackwall 1 - Upgradeable to (QMK) Tires, P265/70R16, all-season touring, White outlined-letter.		□ ¹	□ ¹		
	D07	Console, floor			■	■	■
LM7		Engine, Vortec 5300 V8 SFI			■	■	■
	UQ7	Sound system feature, Bose Premium speaker system			■	■	■
	UK6	Sound system feature, rear audio controls			■	■	■
	A95	Seats, front Custom Cloth reclining buckets 1 - Upgradeable to (A95) Seats, front leather seating surfaces reclining buckets.			□ ¹		
	KNP	Cooling, external transmission oil cooler				■	■
		Door handles, color-keyed				■	■
	B58	Floormats, color-keyed, carpeted front and 2nd row				■	■
	DL3	Mirrors, outside rearview				■	■
	AN3	Seats, front leather seating surfaces power reclining full-feature buckets				■	■

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1WT, 1SJ, 1SK, 1SL and 1SM available on C*15706 Models.	LS			Z71	LT
			1WT ¹	1SJ ¹	1SK ¹	1SL ¹	1SM ¹
	AT5	Seats , middle leather appointed 60/40 split-folding bench 1 - Upgradeable to (AL4) Seats, middle leather appointed buckets.				□ ¹	□ ¹
UC6		Sound system , ETR AM/FM stereo with in-dash 6-disc CD changer 1 - Upgradeable to (UM8) Sound system, ETR AM/FM stereo with CD player, Touch-screen Navigation Radio (TNR).				□ ¹	□ ¹
Z82		Trailer equipment , heavy-duty				■	■
ZM9		Universal Home Remote				■	■
	K47	Air cleaner , high-capacity				■	
		Air dam , Dark Gray				■	
		Assist steps , tubular				■	
	VB5	Bumper , front, painted				■	
	V43	Bumper , rear, painted step				■	
PDC		Cargo Package				■	
G80		Differential , locking, heavy-duty, rear				■	
		Fog Lamps , front, round, halogen				■	
		Grille , color-keyed				■	
	G63	Luggage rack , roof-mounted, Black				■	
		Moldings , lower rocker				■	
NZZ		Skid Plate Package				■	
	Z71	Suspension Package , Off-Road				■	
	QJP	Tires , P265/70R17, on-/off-road, blackwall				■	
B71		Wheel flares				■	
	CJ2	Air conditioning , tri-zone, automatic					■
	PDC	Cargo Package					■
AS3		Seats , rear 3rd row vinyl 50/50 split-bench					■
U2K		Sound system feature , XM Satellite Radio					■
	QAN	Tires , P265/70R17, all-season, blackwall 1 - Upgradeable to (QAS) Tires, P265/70R17, all-season, White outlined-letter.					□ ¹

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.

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Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1WT, 1SJ, 1SK, 1SL and 1SM available on C*15706 Models.	LS			Z71	LT
			1WT ¹	1SJ ¹	1SK ¹	1SL ¹	1SM ¹
		Air bags , frontal, dual-stage, driver and right front passenger, includes Passenger Sensing System (front passenger air bag status on inside rearview mirror) 1 - 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	S ¹	S ¹	S ¹
AJ7		Air bags , side-impact, driver and right front passenger 1 - 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	A ¹	A ¹	A ¹	A ¹
	CJ3	Air conditioning , tri-zone, manual, individual climate settings for driver, right front passenger and rear passengers, includes front controls 1 - Upgradeable to (CJ2) Air conditioning, tri-zone, automatic when (CF5) Sunroof, power is ordered. 2 - Upgradeable to (CJ2) Air conditioning, tri-zone, automatic when (CF5) Sunroof, power or (U42) Entertainment system is ordered.	■	■	□ ¹	□ ²	--
	CJ2	Air conditioning , tri-zone, automatic, individual climate settings for driver, right front passenger and rear passengers, includes front and rear HVAC systems 1 - Included and only available when (CF5) Sunroof, power is ordered. 2 - Included and only available when (CF5) Sunroof, power or (U42) Entertainment system is ordered.	--	--	A ¹	A ²	■
		Assist handles , front passenger and outboard 2nd row seats	S	S	S	S	S
PDC		Cargo Package , includes (RYJ) Cargo shade, (AP9) Cargo net, (B39) Cargo mat and (V1K) Luggage rack center rails. When (AS3) Seats, rear 3rd row 50/50 split-bench is ordered, package does not include (RYJ) Cargo shade or (B39) Cargo mat	--	A	A	■	--
	PDC	Cargo Package , includes (AP9) Cargo net and (V1K) Luggage rack center rails	--	--	--	--	■
	D07	Console , floor, includes storage area, map pocket, cupholders and integrated 2nd row audio controls	--	--	■	■	■
		Console , overhead mini includes map lights and rear seat HVAC controls 1 - Includes sunroof controls when (CF5) Sunroof is ordered.	S	S	S ¹	S ¹	S ¹
	K34	Cruise control , electronic with set and resume speed, includes telltale in instrument panel cluster	S	S	S	S	S
	C49	Defogger , rear-window, electric	S	S	S	S	S
	AU3	Door locks , power programmable, includes lockout protection	S	S	S	S	S

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			1WT ¹	1SJ ¹	1SK ¹	1SL ¹	1SM ¹
		Driver Information Center , monitors numerous systems depending on vehicle equipment	S	S	S	S	S
	B30	Floor covering , color-keyed carpeting	S	S	S	S	S
	B37	NEW! Floormats , color-keyed, vinyl front and 2nd row, removable	S	S	S	--	--
	B58	Floormats , color-keyed, carpeted front and 2nd row, removable	--	--	--	■	■
		Headliner , cloth	S	S	S	S	S
		Instrumentation , analog, includes speedometer, odometer with trip odometer, fuel level, voltmeter, engine temperature, oil pressure and tachometer	S	S	S	S	S
		Key , single, 2-sided	S	S	S	S	S
	AU0	Keyless entry , remote, includes 2 transmitters, panic button and content theft alarm	S	S	S	S	S
		LATCH system , (Lower Anchors and Top tethers for CHildren), for child safety seats	S	S	S	S	S
		Lighting , dome lamp, driver and passenger side door switch with delayed entry feature, cargo lamps, door handle or keyless remote activated illuminated entry, map lights in front and 2nd seat positions	S	S	S	S	S
	DF5	Mirror , inside rearview, 8-point compass, outside temperature indicator and right front passenger air bag status	S	S	S	S	S
	UE1	OnStar , 1-year Safe and Sound Service, includes automatic notification of air bag deployment, stolen vehicle tracking, emergency services, roadside assistance, remote door unlock, remote horn and lights, GM Goodwrench remote diagnostics, AccidentAssist and online concierge. Drivers can also obtain the available voice-activated, hands-free Personal Calling service and Virtual Advisor that provides location-based traffic and weather reports and other personalized information 1 - Visit www.onstar.com for system information and details.	S ¹	S ¹	S ¹	S ¹	S ¹
JF4		Pedals , power, adjustable	--	A	A	A	A
		Power outlets , auxiliary, 2 on instrument panel, 1 in cargo area, 12-volt	S	S	S	S	S
		Safety belts , 3-point, driver and front passenger, in all seating positions except center seating position in 1st and 3rd row which are lap only	S	S	S	S	S
	AE7	Seats , front Custom Cloth 40/20/40 split-bench, 3-passenger, driver and passenger manual reclining, outboard head restraints, center fold-down storage armrest, 6-way power adjustable driver seat and rear storage pockets	S	S	--	--	--

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1WT, 1SJ, 1SK, 1SL and 1SM available on C*15706 Models.	LS			Z71	LT
			1WT ¹	1SJ ¹	1SK ¹	1SL ¹	1SM ¹
	A95	Seats , front Custom Cloth reclining buckets, includes adjustable head restraints, inboard armrests, 6-way power adjustable driver seat, floor console and rear storage pockets 1 - Upgradeable to (A95) Seats, front leather seating surfaces reclining buckets.	--	--	□ ¹	--	--
A95		Seats , front leather seating surfaces reclining buckets, includes adjustable head restraints, inboard armrests, 6-way power adjustable driver seat, floor console and rear storage pockets	--	--	A	--	--
	AN3	Seats , front leather seating surfaces power reclining full-feature buckets, includes driver and passenger adjustable head restraints, power lumbar, 10-way power adjustable, inboard armrests, heated seat cushion and seatbacks, 2-position driver-side memory, storage pockets and floor console	--	--	--	■	■
	AT5	Seats , middle Custom Cloth 60/40 split-folding bench, 3-passenger with center armrest 1 - Upgradeable to (AT5) Seats, middle leather appointed 60/40 split-folding bench.	■	■	□ ¹	--	--
	AT5	Seats , middle leather appointed 60/40 split-folding bench, 3-passenger with center armrest 1 - Included and only available with (A95) Seats, front leather seating surfaces reclining buckets. 2 - Upgradeable to (AL4) Seats, middle leather appointed buckets.	--	--	A ¹	□ ²	□ ²
AL4		Seats , middle leather appointed buckets, reclining 1 - Requires (AS3) Seats, rear 3rd row vinyl 50/50 split-bench.	--	--	--	A ¹	A
AS3		Seats , rear 3rd row Custom Cloth 50/50 split-bench, 3-passenger, removable	--	A	A	--	--
AS3		Seats , rear 3rd row vinyl 50/50 split-bench, 3-passenger, removable 1 - Requires (AL4) Seats, middle leather appointed buckets. Includes (C5U) GVWR, 6800 lbs. (3084 kg).	--	--	A	A ¹	■
PCV		NEW! Smart Select Package , includes (PDC) Cargo Package, (AS3) Seats, rear 3rd row Custom Cloth 50/50 split-bench, (G80) Differential, locking and (Z82) Trailering equipment, heavy-duty	--	A	A	--	--
R9I		NEW! Smart Select Package discount not desired	--	A	A	--	--
	UB0	NEW! Sound system , ETR AM/FM stereo with CD player, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume and Radio Data System (RDS) 1 - Upgradeable to (UC6) Sound system, ETR AM/FM stereo with in-dash 6-disc CD changer.	■	■	□ ¹	--	--
UC6		Sound system , ETR AM/FM stereo with in-dash 6-disc CD changer, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume, TheftLock and Radio Data System (RDS) 1 - Upgradeable to (UM8) Sound system, ETR AM/FM stereo with CD player, Touch-screen Navigation Radio (TNR).	--	--	A	□ ¹	□ ¹

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1WT, 1SJ, 1SK, 1SL and 1SM available on C*15706 Models.	LS			Z71	LT
			1WT ¹	1SJ ¹	1SK ¹	1SL ¹	1SM ¹
UM8		Sound system , ETR AM/FM stereo with CD player, Touch-screen Navigation Radio (TNR), includes seek-and-scan, auto-tone control and Radio Data System (RDS) 1 - Not available in AK, PR or VI.	--	--	--	A ¹	A ¹
	UQ3	Sound system feature , 8-speakers	S	S	--	--	--
	UQ7	Sound system feature , Bose Premium speaker system, 9 speakers, includes subwoofer in center console	--	--	■	■	■
	UK6	Sound system feature , rear audio controls, includes dual headphone jacks (headphones not included), power outlet and controls for volume, station selection and media	--	--	■	■	■
U2K		Sound system feature , XM Satellite Radio features 67 channels of 100% commercial-free music included in its over 150 channels of the best in music, news, sports, talk, comedy, XM Instant Traffic and Weather, and more. Digital quality sound with coast-to-coast signal coverage. Three trial months - no obligation. 1 - Subscription fees apply. Available only in the 48 contiguous U.S.	--	A ¹	A ¹	A ¹	■ ¹
U42		Entertainment system , rear seat, includes DVD player with remote control, overhead display, 2 sets of wireless infrared headphones, auxiliary audio/video jacks, remote game plug-in and mute button in overhead console 1 - Includes (CJ2) Air conditioning, tri-zone, automatic.	--	--	--	A ¹	A
		Steering column , Tilt-Wheel, adjustable, includes brake/transmission shift interlock	S	S	S	S	S
	NP5	Steering wheel , leather-wrapped rim, Black	S	S	S	S	S
	UK3	Steering wheel , mounted controls, includes audio and driver information center controls	S	S	S	S	S
PCR		Sun, Sound and Entertainment Package , includes (U2K) Sound system feature, XM Satellite Radio, (U42) Entertainment system, rear seat and (CF5) Sunroof, power 1 - Package does not include (U2K) Sound system feature, XM Satellite Radio when ordered outside of the 48 contiguous United States.	--	--	--	A ¹	A ¹
R6Q		Sun, Sound and Entertainment Package discount not desired 1 - Required when content within option package is ordered and entire package is not desired.	--	--	--	A ¹	A ¹
CF5		Sunroof , power, tilt-sliding, electric with express-open and wind deflector 1 - Includes (CJ2) Air conditioning, tri-zone, automatic and (ZM9) Universal Home Remote.	--	--	A ¹	A ¹	A
		Theft-deterrent system , PASSlock II	S	S	S	S	S
	UJ6	Tire pressure monitoring system (does not apply to spare tire)	S	S	S	S	S

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			1WT ¹	1SJ ¹	1SK ¹	1SL ¹	1SM ¹
ZM9		Universal Home Remote , includes garage door opener, programmable 1 - Included with (CF5) Sunroof, power.	--	--	A ¹	■	■
	DH6	Visors , padded, driver and passenger side with cloth trim, extends on rod, illuminated vanity mirrors and corner storage pockets on back of visors	S	S	S	S	S
		Warning tones , headlamp on, key-in-ignition, driver and right front passenger safety belt unfasten, turn signal on	S	S	S	S	S
	A31	Windows , power, includes driver express-down and lockout features	S	S	S	S	S

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			1WT ¹	1SJ ¹	1SK ¹	1SL ¹	1SM ¹
		Air dam, Gray	S	S	S	--	S
		Air dam, Dark Gray, unique	--	--	--	■	--
BVE		Assist steps, Black, mounted between front and rear wheels	--	A	A	--	S
		Assist steps, tubular, mounted between front and rear wheels at bottom of rocker panel	--	--	--	■	--
	E52	Body, liftgate with liftglass, rear door system, includes rear-window wiper/washer	S	S	S	S	S
	VG3	Bumper, front, chrome 1 - Refer to Color Compatibility chart for Matte Black vs. color-keyed top pad.	S ¹	S ¹	S ¹	--	S ¹
	VB3	Bumper, rear, chrome step, includes pad	S	S	S	--	S
	VB5	Bumper, front, painted	--	--	--	■	--
	V43	Bumper, rear, painted step, includes pad	--	--	--	■	--
		Daytime running lamps, includes automatic exterior lamp control	S	S	S	S	S
		Door handles, Matte Black	S	S	S	--	--
		Door handles, color-keyed	--	--	--	■	■
	T96	Fog lamps, front, rectangular, halogen	S	S	S	--	S
		Fog Lamps, front, round, halogen	--	--	--	■	--
	AJ1	Glass, Solar-Ray deep tinted (all windows except light tinted glass on windshield, driver and front passenger)	S	S	S	S	S
	V22	Grille, chrome surround	S	S	S	--	S
		Grille, color-keyed	--	--	--	■	--
V20		Grille brush guard, Black 1 - Requires CK15706.	--	--	--	A ¹	--
		Headlamps, dual halogen composite, includes flash-to-pass feature and automatic lamp control	S	S	S	S	S
	V54	Luggage rack, roof-mounted, Black, side rails only 1 - Center rails available in (PDC) Cargo Package. 2 - Includes center rails.	S	S ¹	S ¹	--	S ²
	G63	Luggage rack, roof-mounted, Black, includes cross rails and integral roller to assist in loading items when in park	--	--	--	■	--
	DL8	Mirrors, outside rearview, foldaway, power adjustable, heated	S	S	S	--	--

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			1WT ¹	1SJ ¹	1SK ¹	1SL ¹	1SM ¹
	DL3	Mirrors, outside rearview, power folding, power adjustable, heated, color-keyed, driver side electrochromic (light-sensitive auto dimming), turn signal in glass, with ground illumination and curb-tilt	--	--	--	■	■
B85		Moldings, bodyside 1 - Bodyside moldings are Matte Black. 2 - Refer to Color Compatibility chart for Matte Black vs. color-keyed moldings.	--	A ¹	A ¹	--	S ²
		Moldings, lower rocker	--	--	--	■	--
	V76	Recovery hooks, front, frame-mounted 1 - Requires 4WD Models.	--	S ¹	S ¹	S	S ¹
		Tire carrier, lockable, outside spare, winch-type mounted under frame at rear	S	S	S	S	S
		Tire, spare, full-size, 16" (40.6 cm) steel wheel located at rear underbody of vehicle, blackwall	S	S	S	S	S
	QNL	Tires, P245/75R16, all-season, White outlined-letter	S	--	--	--	--
	QMJ	Tires, P265/70R16, all-season touring, blackwall 1 - Upgradeable to (QMK) Tires, P265/70R16, all-season touring, White outlined-letter.	--	□ ¹	□ ¹	--	--
QMK		Tires, P265/70R16, all-season touring, White outlined-letter	--	A	A	--	--
	QJP	Tires, P265/70R17, on-/off-road, blackwall	--	--	--	■	--
	QAN	Tires, P265/70R17, all-season, blackwall 1 - Upgradeable to (QAS) Tires, P265/70R17, all-season, White outlined-letter.	--	--	--	--	□ ¹
	QAS	Tires, P265/70R17, all-season, White outlined-letter 1 - Requires (P25) Wheels, 4 - 17" x 7.5" (43.2 cm x 19.1 cm) 5-spoke aluminum.	--	--	--	--	A ¹
B71		Wheel flares, front and rear (refer to Color Compatibility chart for Matte Black vs. color-keyed wheel flares)	--	A	A	■	A
	QB5	Wheels, 4 - 16" X 6.5" (40.6 cm x 16.5 cm) steel disc	S	--	--	--	--
	PF9	Wheels, 4 - 16" x 7" (40.6 cm x 17.8 cm) 6-lug cast aluminum, includes steel spare	--	S	S	--	--
	N88	Wheels, 4 - 17" x 7" (43.2 cm x 17.8 cm) cast aluminum, machined, includes 16" (40.6 cm) steel spare	--	--	--	S	--
	P25	Wheels, 4 - 17" x 7.5" (43.2 cm x 19.1 cm) 5-spoke aluminum, includes 16" x 6.5" (40.6 cm x 16.5 cm) steel spare	--	--	--	--	S
		Wipers, intermittent, front, wet-arm with pulse washers	S	S	S	S	S

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			1WT ¹	1SJ ¹	1SK ¹	1SL ¹	1SM ¹
	K47	Air cleaner, high-capacity	--	--	--	■	--
	KW1	Alternator, 160 amps	S	S	S	S	S
		Battery, heavy-duty, 600 cold-cranking amps, includes rundown protection and retained accessory power	S	S	S	S	S
		Brakes, 4-wheel antilock, 4-wheel disc, hydroboost	S	S	S	S	S
	KNP	Cooling, external transmission oil cooler, auxiliary, heavy-duty air-to-oil 1 - Included and only available with (Z82) Trailering equipment, heavy-duty.	A ¹	A ¹	A ¹	■	■
G80		Differential, locking, heavy-duty, rear	A	A	A	■	A
FE9		Emissions, Federal requirements	A	A	A	A	A
YF5		Emissions, California state requirements	A	A	A	A	A
NE1		Emissions, Maine, Massachusetts, New York or Vermont state requirements	A	A	A	A	A
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	A	A	A	A
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	A ¹	A ¹	A 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	A ¹	A ¹	A ¹	A ¹

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1WT, 1SJ, 1SK, 1SL and 1SM available on C*15706 Models.	LS			Z71	LT
			1WT ¹	1SJ ¹	1SK ¹	1SL ¹	1SM ¹
	LR4	Engine, Vortec 4800 V8 SFI (285 HP [212.3 kW] @ 5200 rpm, 295 lb.-ft. [398.2 N-m] @ 4000 rpm) 1 - 2WD models only.	S ¹	S ¹	--	--	--
LM7		Engine, Vortec 5300 V8 SFI (295 HP [219.7 kW] @ 5200 rpm, 335 lb.-ft. [452.3 N-m] @ 4000 rpm) 1 - Standard on 4WD Models.	A ¹	A ¹	■	■	■
L59		Engine, Vortec 5300 V8 SFI Flex-Fuel, capable of running on unleaded or up to 85% ethanol (295 HP [219.7 kW] @ 5200 rpm, 335 lb.-ft. [452.3 N-m] @ 4000 rpm)	--	A	A	A	A
K05		Engine block heater	A	A	A	A	A
	C7K	GVWR, 6500 lbs. (2948 kg) 1 - Requires 2WD model - Included and only available when (AS3) Seats, 3rd row 50/50 split-bench is not ordered.	A ¹	A ¹	A ¹	A ¹	--
	C5U	GVWR, 6800 lbs. (3084 kg) 1 - Included and only available with 2WD model when (AS3) Seats, rear 3rd row 50/50 split-bench is ordered. - Included and only available with 4WD model when (AS3) Seats, rear 3rd row 50/50 split-bench is not ordered. 2 - 2WD models only.	A ¹	A ¹	A ¹	A ¹	S ²
	C5H	GVWR, 6900 lbs. (3130 kg) 1 - Requires 4WD Model. - Included and only available when (AS3) Seats, rear 3rd row 50/50 split-bench is ordered. 2 - 4WD models only.	--	A ¹	A ¹	--	S ²
PCX		Joe Gibbs Performance Package 1 (Requires Ship-Thru) 1 - Requires (LM7) Engine, Vortec 5300 V8 SFI, (M30) Transmission, 4-speed automatic, (B71) Wheel flares, front and rear, (G80) Differential, locking, heavy-duty, rear, (GT4) Rear axle, 3.73 ratio (for CC15706) or (GT5) Rear axle, 4.10 ratio (for CK15706), (UK3) Steering wheel, mounted controls and (Z82) Trailing equipment, heavy-duty. Requires SEO (VDS) Ship-Thru to SVEA. Required options cannot be substituted or upgraded. Not available with (AJ7) Air bags, side-impact, driver and right front passenger or (Z55) Suspension Package, Autoride. For more information, please contact Joe Gibbs Performance at 877-547-2677 or www.joegibbsperformance.com.	--	--	A ¹	--	--
PCX		Joe Gibbs Performance Package 2 (Requires Ship-Thru) 1 - Requires (LM7) Engine, Vortec 5300 V8 SFI, (M30) Transmission, 4-speed automatic, (B71) Wheel flares, front and rear, (G80) Differential, locking, heavy-duty, rear, (GT4) Rear axle, 3.73 ratio (for CC15706) or (GT5) Rear axle, 4.10 ratio (for CK15706), (UK3) Steering wheel, mounted controls and (Z82) Trailing equipment, heavy-duty. Requires SEO (VDS) Ship-Thru to SVEA. Required options cannot be substituted or upgraded. Not available with (AJ7) Air bags, side-impact, driver and right front passenger or (Z55) Suspension Package, Autoride. For more information, please contact Joe Gibbs Performance at 877-547-2677 or www.joegibbsperformance.com.	--	--	--	--	A ¹
	GU5	Rear axle, 3.23 ratio 1 - Requires 2WD Models. Upgradeable to (GT4) Rear axle, 3.73 ratio.	□ ¹	□ ¹	□ ¹	□ ¹	□ ¹
GT4		Rear axle, 3.73 ratio 1 - Requires 2WD Models.	A ¹	A ¹	A ¹	A ¹	A ¹

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			1WT ¹	1SJ ¹	1SK ¹	1SL ¹	1SM ¹
	GU6	Rear axle, 3.42 ratio 1 - Requires 4WD Models. Upgradeable to (GT5) Rear axle, 4.10 ratio.	□ ¹	□ ¹	□ ¹	□ ¹	□ ¹
GT5		Rear axle, 4.10 ratio 1 - Requires 4WD Models.	A ¹	A ¹	A ¹	A ¹	A ¹
NZZ		Skid Plate Package, off-road, with aluminum front underbody shield starting behind front bumper and running to 1st cross-member protecting front underbody, oil pan, differential case and steel transfer case frame-mounted shields 1 - Requires 4WD Models.	--	A ¹	A ¹	■	A ¹
	JL4	StabiliTrak, stability control, includes Proactive Roll Avoidance	S	S	S	S	S
		Steering, power	S	S	S	S	S
		Suspension, front, independent torsion bar, and stabilizer bar	S	S	S	S	S
		Suspension, rear, multi-link with coil springs	S	S	S	S	S
	ZQ1	Suspension Package, Smooth Ride	S	--	--	--	--
	ZW7	Suspension Package, Premium Smooth Ride 1 - Upgradeable to (Z55) Suspension Package, Autoride. 2 - Not available on CK15706.	--	□ ¹	□ ¹	■ ²	□ ¹
	Z71	Suspension Package, Off-Road, includes 1.81" (46 mm) gas shocks, off-road jounce bumpers, (NZZ) Skid Plate Package and (K47) Air cleaner, high capacity 1 - Not available on CC15706.	--	--	--	■ ¹	--
Z55		Suspension Package, Autoride, bi-state variable shock dampening and rear air-assisted load-leveling	--	A	A	--	A
Z82		Trailer equipment, heavy-duty, includes trailering hitch platform, 7-lead wiring connector, auxiliary transmission oil cooler and trailer brake pre-wire harness 1 - Required when (U42) Entertainment system, rear seat and (CF5) Sunroof, power are ordered together.	A	A	A ¹	■	■
		Trailer wiring harness, 7-wire	S	S	S	S	S
	NP8	Transfer case, electronic Autotrac, includes push-button controls 1 - Requires 4WD models.	S ¹	S ¹	S ¹	S ¹	S ¹
	M30	Transmission, 4-speed automatic, electronically controlled with overdrive and tow/haul mode	S	S	S	S	S

<p>S = Standard Equipment A = Available -- (dashes) = Not Available</p> <p>■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable</p> <p>*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.</p>									
Model	Engine	Transmissions	Axles				GVWR lbs. (kg)		
		M30 4-Speed Automatic	GU5 3.23	GT4 3.73	GU6 3.42	GT5 4.10	C7K 6500 (2948)	C5U 6800 (3084)	C5H 6900 (3130)
CC15706	LR4 Vortec 4800 V8 SFI	S	S	A	--	--	S ¹	A ²	--
	LM7 Vortec 5300 V8 SFI	S	S	A	--	--	S ¹	A ²	--
	L59 Vortec 5300 V8 SFI	S	S	A	--	--	S ¹	A ²	--
CK15706	LM7 Vortec 5300 V8 SFI	S	--	--	S	A	--	S ³	A ²
	L59 Vortec 5300 V8 SFI	S	--	--	S	A	--	S ³	A ²
<p>1 - Not available with (AS3) Seats, rear 3rd row 50/50 split-bench.</p> <p>2 - Included and only available with (AS3) Seats, rear 3rd row 50/50 split-bench.</p> <p>3 - Not available on 1SJ, 1SK, and 1SM with (AS3) Seats, rear 3rd row 50/50 split bench. Standard on 1SL.</p>									

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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	
				Tan/ Neutral ¹	Gray/ Dark Charcoal ¹
LS	Front 40/20/40 reclining split-bench	AE7	Custom Cloth	52D	92D
LS	Front high-back reclining bucket	A95	Custom Cloth	52D	92D
LS	Front high-back reclining bucket	A95	Custom Leather seating surfaces	522	922
LT	Front full-feature reclining bucket	AN3	Custom Leather seating surfaces	522	922

Exterior Solid Paint	Color Code	Touch Up Paint Number	Interior		LS Wheel Flares ²	LT Wheel Flares, Bodyside Molding and Front Bumper Pad	LT Door Handles and Outside Rearview Mirrors
			Tan/ Neutral ¹	Gray/ Dark Charcoal ¹			
Sandstone Metallic	15U	WA-929L	A	--	Sandstone	Sandstone	Sandstone
Dark Blue Metallic	25U	WA-722J	A	A	Matte Black	Matte Black	Dark Blue
Bermuda Blue Metallic ³	26U	WA-214M	A	A	Bermuda Blue	Bermuda Blue	Bermuda Blue
Black	41U	WA-8555	A	A	Matte Black	Matte Black	Black
Summit White	50U	WA-8624	A	A	Summit White	Summit White	Summit White
Silver Birch Metallic	59U	WA-926L	A	A	Silver Birch	Silver Birch	Silver Birch
Dark Gray Metallic	62U	WA-805K	A	A	Matte Black	Matte Black	Dark Gray
Sport Red Metallic	63U	WA-817K	A	A	Sport Red	Sport Red	Sport Red

1 - Interior color has lighter/darker two-tone effect.

2 - On LS Models, bodyside molding, front bumper pad and door handles are Matte Black.

3 - Available at extra charge.

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Decor Level	Seat Type	Seat Code	Seat Trim	Interior	
				Tan/ Neutral ¹	Gray/ Dark Charcoal ¹
LS	Front 40/20/40 reclining split-bench	AE7	Custom Cloth	52D	92D
LS	Front high-back reclining bucket	A95	Custom Cloth	52D	92D
LS	Front high-back reclining bucket	A95	Custom Leather seating surfaces	522	922
LT	Front full-feature reclining bucket	AN3	Custom Leather seating surfaces	522	922

Exterior Solid Paint	Color Code	Touch Up Paint Number	Interior	
			Tan/ Neutral ¹	Gray/ Dark Charcoal ¹
Blue	none	WA-5665	A	A
Green	none	WA-7941	A	A
Green, Woodland	9V5	WA-9015	A	A
Victory Red	none	WA-9260	A	A
Doeskin Tan	9V9	WA-9403	A	A
Yellow	none	WA-9414	A	A
Tangier Orange	9W4	WA-9417	A	A
Wheatland Yellow	9W3	WA-253A	A	A
Dark Toreador Red	none	WA-334D	A	A
NEW! Indigo Blue	none	WA-9792	A	A

All wheel flares, bodyside moldings, front bumper pads, OSRV mirror backs and door handles are Black.

¹ - Interior color has lighter/darker two-tone effect.

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	
				Tan/ Neutral ¹	Gray/ Dark Charcoal ¹
Z71	Front full-feature reclining bucket	AN3	Custom Leather seating surfaces	522	922

Exterior Solid Paint	Color Code	Touch Up Paint Number	Interior		Wheel Flares and Front Bumper Pad	Door Handles and Outside Rearview Mirrors
			Tan/ Neutral ¹	Gray/ Dark Charcoal ¹		
Bermuda Blue Metallic ²	26U	WA-214M	A	A	Bermuda Blue	Bermuda Blue
Black	41U	WA-8555	A	A	Matte Black	Black
Summit White	50U	WA-8624	A	A	Summit White	Summit White
Silver Birch Metallic	59U	WA-926L	A	A	Silver Birch	Silver Birch
Sport Red Metallic	63U	WA-817K	A	A	Sport Red	Sport Red

1 - Interior color has lighter/darker two-tone effect.

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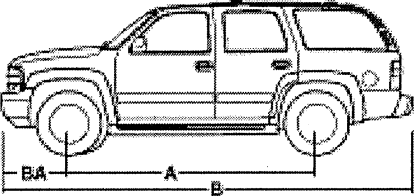
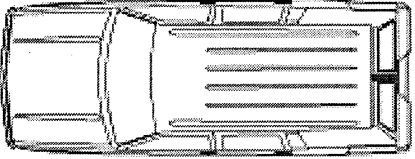
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Codes listed in the shaded column titled Ref. Only RPO Code are for internal use only and should not be ordered.

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment groups 1WT, 1SJ, 1SK, 1SL and 1SM available on C*15706 Models.	LS			Z71	LT
			1WT ¹	1SJ ¹	1SK ¹	1SL ¹	1SM ¹
		Exterior					
8X1		Label, fasten safety belts (MSRP = \$2.00) "Fasten Safety Belts" reminder label on side door window glass.	A	A	A	--	A
9V9		Paints, solid (MSRP = No Charge), Doeskin Tan 1 - Requires SEO (TGK), Special Paint, one color. All wheel flares, bodyside moldings, front bumper pads, OSRV mirror backs and door handles are Black.	A ¹	A ¹	A ¹	--	A ¹
9W4		Paints, solid (MSRP = No Charge), Tangier Orange 1 - Requires SEO (TGK), Special Paint, one color. All wheel flares, bodyside moldings, front bumper pads, OSRV mirror backs and door handles are Black.	A ¹	A ¹	A ¹	--	A ¹
9W3		Paints, solid (MSRP = No Charge), Wheatland Yellow 1 - Requires SEO (TGK), Special Paint, one color. All wheel flares, bodyside moldings, front bumper pads, OSRV mirror backs and door handles are Black.	A ¹	A ¹	A ¹	--	A ¹
9V5		Paints, solid (MSRP = No Charge), Woodland Green 1 - Requires SEO (TGK), Special Paint, one color. All wheel flares, bodyside moldings, front bumper pads, OSRV mirror backs and door handles are Black.	A ¹	A ¹	A ¹	--	A ¹
TGK		Solid Paint SEO solid paint, one color 1 - Required with any SEO paint selection. May require extended lead time.	A ¹	A ¹	A ¹	--	A ¹
		Mechanical					
7Y9		Battery, Single 770 CCA (MSRP = \$56.00) Provides a 770 CCA HD cranking battery.	A	A	A	--	A
8T7		Half shaft boot for 4x4 (MSRP = \$150.00) Front-wheel drive shaft with a Cordura nylon protective cover on 4-wheel drive vehicles. Should be restricted to vehicles used in severe off-highway service. 1 - Requires 4WD Models.	A ¹	A ¹	A ¹	--	A ¹
		Ship Thru Codes					
VDS		Ship Thru for Models C*15706 (MSRP = WA) Produced in Janesville Assembly and shipped to Specialty Vehicle Engineering of America. 1 - Required with RPO (PCX) Joe Gibbs Performance Package	--	--	A ¹	--	A ¹

All dimensions in inches (mm) unless otherwise stated.

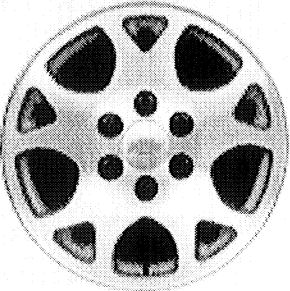
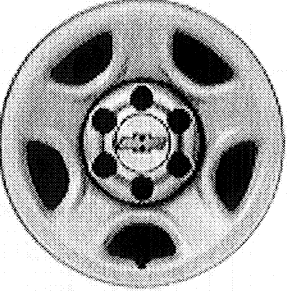
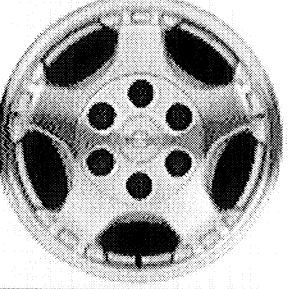

		Specifications	CC15706 2-Wheel Drive	CK15706 4-Wheel Drive
	A	Wheelbase	116.00 (2946)	116.00 (2946)
	B	Overall length	198.80 (5050)	198.80 (5050)
	C	Body width	78.80 (2002)	78.80 (2002)
	D	Overall height	74.80 (1900)	76.70 (1948)
		Overall height, without luggage rack	74.30 (1887)	74.10 (1882)
		Head room, front	40.70 (1034)	40.70 (1034)
		Head room, center	39.40 (1001)	39.40 (1001)
		Head room, rear	37.40 (950)	37.40 (950)
		Shoulder room, front	65.20 (1656)	65.20 (1656)
		Shoulder room, center	65.10 (1654)	65.10 (1654)
		Shoulder room, rear	64.40 (1636)	64.40 (1636)
		Hip room, front	61.40 (1560)	61.40 (1560)
		Hip room, center	61.30 (1557)	61.30 (1557)
		Hip room, rear	49.20 (1250)	49.20 (1250)
		Leg room, front	41.30 (1049)	41.30 (1049)
		Leg room, center	38.60 (980)	38.60 (980)
		Leg room, rear	27.30 (693)	27.30 (693)
	BA	Front bumper to axle	37.00 (940)	37.00 (940)
		Inside width, at floor	59.80 (1519)	59.80 (1519)
		Ground to top of rear load floor	30.00 (762)	31.50 (800)
		Load floor length, to front seat, at floor	84.20 (2139)	84.20 (2139)
		Load floor length, to center	49.80	49.80



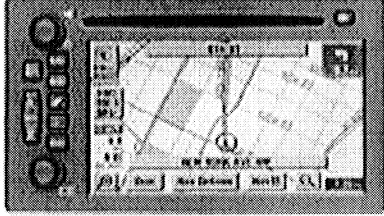
All dimensions in inches (mm) unless otherwise stated.

	Specifications	CC15706 2-Wheel Drive	CK15706 4-Wheel Drive
	seat, at floor	(1265)	(1265)
	Load floor length, to rear seat, at floor	13.80 (351)	13.80 (351)
	Inside width, between wheelhousing	49.10 (1247)	49.10 (1247)
	Cargo area height	41.50 (1054)	41.50 (1054)
	Ground clearance, front	9.80 (249)	9.80 (249)
	Ground clearance, rear	8.40 (213)	8.40 (213)

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.

	CC15706 2-Wheel Drive	CK15706 4-Wheel Drive
Specifications		
Front shock absorber diameter, in. (mm)	1.81 (46)	1.81 (46)
Front stabilizer bar diameter, in. (mm)	1.26 (32)	1.26 (32)
Rear shock absorber diameter, in. (mm)	1.81 (46)	1.81 (46)
Rear stabilizer bar diameter, in. (mm)	1.10 (28)	1.10 (28)
Turning diameter, curb-to-curb, ft. (m)	38.3 (11.7)	38.3 (11.7)
Capacities		
Front axle, lbs. (kg)	3400 (1542)	3925 (1780)
Front spring capacity, lbs. (kg)	3200 (1452)	3600 (1633)
Rear axle, lbs. (kg)	4000 (1814)	4000 (1814)
Rear spring capacity, lbs. (kg)	3750 (1701)	3750 (1701)
Curb weight, lbs. (kg)	4978 (2258)	5210 (2363)
Cargo volume, cu. ft. (liters)	104.6 (2962.3)	104.6 (2962.3)
Payload ¹ , lbs. (kg)	1522 (690)	1590 (721)
Gross Vehicle Weight Rating (GVWR), lbs. (kg)	6500 (2948)	6800 (3084)
Front Gross Axle Weight Rating (GAWR), lbs. (kg)	3200 (1452)	3600 (1633)
Rear Gross Axle Weight Rating (GAWR), lbs. (kg)	3750 (1701)	3750 (1701)
Fuel capacity, approximate, gallon (liters)	26 (98)	26 (98)
Seating capacity (front/center/rear)	3/3/3	3/3/3
1. Maximum payload capacity includes weight of driver, passengers, optional equipment and cargo.		

	<p>N88 Wheels, 4 - 17" x 7" (43.2 cm x 17.8 cm) cast aluminum, machined, includes 16" (40.6 cm) steel spare</p>
	<p>QB5 Wheels, 4 - 16" X 6.5" (40.6 cm x 16.5 cm) steel disc</p>
	<p>PF9 Wheels, 4 - 16" x 7" (40.6 cm x 17.8 cm) 6-lug cast aluminum, includes steel spare</p>
	<p>P25 Wheels, 4 - 17" x 7.5" (43.2 cm x 19.1 cm) 5-spoke aluminum, includes 16" x 6.5" (40.6 cm x 16.5 cm) steel spare</p>

	<p>UB0</p> <p>Sound system, ETR AM/FM stereo with CD player, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume and Radio Data System (RDS)</p>
	<p>UC6</p> <p>Sound system, ETR AM/FM stereo with in-dash 6-disc CD changer, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume, TheftLock and Radio Data System (RDS)</p>
	<p>UM8</p> <p>Sound system, ETR AM/FM stereo with CD player, Touch-screen Navigation Radio (TNR), includes seek-and-scan, auto-tone control and Radio Data System (RDS)</p>

Option Code	Description
7Y9	Battery, Single 770 CCA (MSRP = \$56.00)
8T7	Half shaft boot for 4x4 (MSRP = \$150.00)
8X1	Label, fasten safety belts (MSRP = \$2.00)
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
A31	Windows, power
A95	Seats, front Custom Cloth reclining buckets
A95	Seats, front leather seating surfaces reclining buckets
AE7	Seats, front Custom Cloth 40/20/40 split-bench
AJ1	Glass, Solar-Ray deep tinted
AJ7	Air bags, side-impact, driver and right front passenger
AL4	Seats, middle leather appointed buckets
AN3	Seats, front leather seating surfaces power reclining full-feature buckets
AS3	Seats, rear 3rd row Custom Cloth 50/50 split-bench
AS3	Seats, rear 3rd row vinyl 50/50 split-bench
AT5	Seats, middle Custom Cloth 60/40 split-folding bench
AT5	Seats, middle leather appointed 60/40 split-folding bench
AU0	Keyless entry, remote
AU3	Door locks, power programmable
B30	Floor covering, color-keyed carpeting
B37	Floormats
B58	Floormats, color-keyed, carpeted front and 2nd row
B71	Wheel flares
B85	Moldings, bodyside
BVE	Assist steps, Black
C49	Defogger, rear-window, electric
C5H	GVWR, 6900 lbs. (3130 kg)
C5U	GVWR, 6800 lbs. (3084 kg)
C7K	GVWR, 6500 lbs. (2948 kg)
CF5	Sunroof, power
CJ2	Air conditioning, tri-zone, automatic
CJ3	Air conditioning, tri-zone, manual
D07	Console, floor
DF5	Mirror, inside rearview
DH6	Visors, padded
DL3	Mirrors, outside rearview
DL8	Mirrors, outside rearview, foldaway, power adjustable, heated
E52	Body, liftgate with liftglass
FE9	Emissions, Federal requirements
G63	Luggage rack, roof-mounted, Black
G80	Differential, locking, heavy-duty, rear
GT4	Rear axle, 3.73 ratio
GT5	Rear axle, 4.10 ratio
GU5	Rear axle, 3.23 ratio
GU6	Rear axle, 3.42 ratio
JF4	Pedals, power, adjustable
JL4	StabiliTrak, stability control

Option Code	Description
K05	Engine block heater
K34	Cruise control
K47	Air cleaner, high-capacity
KNP	Cooling, external transmission oil cooler
KW1	Alternator, 160 amps
L59	Engine, Vortec 5300 V8 SFI Flex-Fuel
LM7	Engine, Vortec 5300 V8 SFI
LR4	Engine, Vortec 4800 V8 SFI
M30	Transmission, 4-speed automatic
N88	Wheels, 4 - 17" x 7" (43.2 cm x 17.8 cm) cast aluminum, machined
NB8	Emissions override
NC7	Emissions override, Federal
NE1	Emissions, Maine, Massachusetts, New York or Vermont state requirements
NP5	Steering wheel, leather-wrapped rim
NP8	Transfer case, electronic Autotrac
NZZ	Skid Plate Package
P25	Wheels, 4 - 17" x 7.5" (43.2 cm x 19.1 cm)
PCR	Sun, Sound and Entertainment Package, includes (U2K) Sound system feature
PCV	Smart Select Package
PCX	Joe Gibbs Performance Package 1 (Requires Ship-Thru)
PCX	Joe Gibbs Performance Package 2 (Requires Ship-Thru)
PDC	Cargo Package
PDC	Cargo Package
PF9	Wheels, 4 - 16" x 7" (40.6 cm x 17.8 cm)
QAN	Tires, P265/70R17, all-season, blackwall
QAS	Tires, P265/70R17, all-season, White outlined-letter
QB5	Wheels, 4 - 16" X 6.5" (40.6 cm x 16.5 cm) steel disc
QJP	Tires, P265/70R17, on-/off-road, blackwall
QMJ	Tires, P265/70R16, all-season touring, blackwall
QMK	Tires, P265/70R16, all-season touring, White outlined-letter
QNL	Tires, P245/75R16, all-season, White outlined-letter
R6Q	Sun, Sound and Entertainment Package discount not desired
R9I	Smart Select Package discount not desired
T96	Fog lamps, front, rectangular
TGK	Solid PaintSEO solid paint, one color
U2K	Sound system feature, XM Satellite Radio
U42	Entertainment system, rear seat
UB0	Sound system, ETR AM/FM stereo with CD player
UC6	Sound system, ETR AM/FM stereo with in-dash 6-disc CD changer
UE1	OnStar
UJ6	Tire pressure monitoring system
UK3	Steering wheel, mounted controls
UK6	Sound system feature, rear audio controls
UM8	Sound system, ETR AM/FM stereo with CD player
UQ3	Sound system feature, 8-speakers
UQ7	Sound system feature, Bose Premium speaker system
V20	Grille brush guard, Black
V22	Grille, chrome surround
V43	Bumper, rear, painted step

Option Code	Description
V54	Luggage rack, roof-mounted, Black
V76	Recovery hooks, front, frame-mounted
VB3	Bumper, rear, chrome step
VB5	Bumper, front, painted
VCL	Emissions Certification, CFF (Clean Fuel Fleet) LEV (Low Emission Vehicle).
VDS	Ship Thru for Models C*15706 (MSRP = WA)
VG3	Bumper, front, chrome
YF5	Emissions, California state requirements
Z55	Suspension Package, Autoride
Z71	Suspension Package, Off-Road
Z82	Trailer equipment, heavy-duty
ZM9	Universal Home Remote
ZQ1	Suspension Package, Smooth Ride
ZW7	Suspension Package, Premium Smooth Ride

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 with Ball Hitch				
Model	(LR4) Vortec 4800 V8 SFI		(L59/LM7) Vortec 5300 V8 SFI	
	Axle Ratio	Maximum Trailer Weight lbs. (kg)	Axle Ratio	Maximum Trailer Weight lbs. (kg)
CC15706	3.23	5700 (2586)	3.23	6700 (3039)
	3.73	6700 (3039)	3.73	7700 (3493)
CK15706	3.42	6500 (2948)	3.42	7500 (3402)
	4.10	7500 (3402)	4.10	7700 (3493)

Trailering capacity may be limited by tow vehicle ability to carry trailer tongue weight.

Addition of trailer tongue weight cannot cause vehicle weights to exceed Rear Gross Axle Weight Rating (RGAWR) or Gross Vehicle Weight Rating (GVWR).

GCWR For Engine/Rear Axle Ratio Combination with Automatic Transmission				
Engine	(GCWR) Gross Combination Weight Ratings lbs. (kg)			
	11000 (4990)	12000 (5443)	13000 (5897)	14000 (6350)
(LR4) Vortec 4800 V8 SFI	3.23	3.42 / 3.73	4.10	
(L59/LM7) Vortec 5300 V8 SFI		3.23	3.42 / 3.73	4.10

**2006 Chevrolet Truck Tahoe Police
Vehicle**

STANDARD EQUIPMENT

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 - Requires a fleet or government sales order type. Equipment group 1ST available on CC15706 Model.	Comm
			1ST ¹
		Air bags , frontal, dual-stage, driver and right front passenger, includes Passenger Sensing System (front passenger air bag status on inside rearview mirror) 1 - 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
	CJ3	Air conditioning , tri-zone, manual, individual climate settings for driver, right front passenger and rear passengers, includes front controls	S
		Assist handles , front passenger and outboard 2nd row seats	S
		Console , overhead mini, includes map lights and rear seat HVAC controls	S
	K34	Cruise control , electronic with set and resume speed, includes telltale in instrument panel cluster	S
	C49	Defogger , rear-window, electric	S
	AU3	Door locks , power programmable, includes lockout protection	S
		Driver Message Center , monitors vehicle systems including low fuel, transmission temperature, engine coolant, security, oil level, oil pressure and oil change	S
		Headliner , cloth	S
		Key , single, 2-sided, random code	S
	AU0	Keyless entry , remote, includes 2 transmitters, panic button and content theft alarm	S
		Lighting , dome lamp, driver and passenger side door switch with delayed entry, cargo lamps, map lights in front and 2nd seat positions	S
		Power outlets , auxiliary, 2 on instrument panel, 1 in cargo area, 12-volt	S
		Safety belts , 3-point, driver and front passenger, in all seating positions except center seating position in 1st and 3rd row which are lap only	S
		LATCH system , (Lower Anchors and Top tethers for CHildren), for child safety seats	S
	UQ3	Sound system feature , 8-speakers	S
		Steering column , Tilt-Wheel, adjustable, includes brake/transmission shift interlock	S
	NK5	Steering wheel , steel sleeve, includes theft-deterrent locking feature	S
		Theft-deterrent system , PASSlock II	S
	UJ6	Tire pressure monitor (Includes sensor to spare tire. Spare tire sensor not programmable.)	S
	DH6	Visors , padded, driver and passenger side with cloth trim, extenders, illuminated vanity mirrors and corner storage pockets on back of visors	S
		Warning tones , headlamp on, key-in-ignition, driver and right front passenger safety belt unfasten, turn signal on	S
	A31	Windows , power, includes driver express-down and lockout features	S
		Air dam , Gray	S

**2006 Chevrolet Truck Tahoe Police
Vehicle**

STANDARD EQUIPMENT

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Requires a fleet or government sales order type. Equipment group 1ST available on CC15706 Model.	Comm
			1ST ¹
	E52	Body , liftgate with liftglass, rear door system, includes rear-window wiper/washer	S
	VG3	Bumper , front, chrome	S
	VB3	Bumper , rear, chrome step, includes pad	S
		Daytime running lamps , includes automatic exterior lamp control	S
		Door handles , Matte Black	S
	AJ1	Glass , Solar-Ray deep tinted (all windows except light tinted glass on windshield, driver and front passenger) 1 - Substitutable to (ANJ) Glass, non-deep tinted.	S ¹
		Headlamps , dual halogen composite, includes flash-to-pass feature and automatic lamp control	S
	DL8	Mirrors , outside rearview, foldaway, power adjustable, heated	S
	B85	Moldings , bodyside	S
	SAF	Tire carrier , lockable, outside spare, winch-type mounted under frame at rear	S
		Tire , spare, full-size, located at rear underbody of vehicle, blackwall	S
		Brakes , 4-wheel antilock, 4-wheel disc, hydroboost	S
		Steering , power	S
	M30	Transmission , 4-speed automatic, heavy-duty, electronically controlled with overdrive	S

2006 Chevrolet Truck Tahoe Police Vehicle

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 - Requires a fleet or government sales order type. Equipment group 1ST available on CC15706 Model.	Comm
			1ST ¹
	AJ7	Air bags , side-impact, driver and right front passenger 1 - 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.	■ ¹
	9N5 (SEO)	Console delete , deletes the floor console that is included with bucket seats. deletes the floor console that is included with bucket seats. deletes the floor console and associated audio equipment that is included with bucket seats.	■
	BG9	Floor covering , rubberized vinyl, Black 1 - Deletes (B37) Floor mats, color-keyed vinyl.	■ ¹
	PPV (SEO)	Identifier, Police Vehicle , utilized to identify a vehicle as a police/fire for marketing, order-build process and emission certification purposes. 1 - Must be specified.	■ ¹
		Instrumentation , analog, includes "certified" speedometer with 140 mph scale in 1 mph increments, odometer with trip odometer, fuel level, voltmeter, engine temperature, oil pressure and tachometer	■
	D31	Mirror , inside rearview, manual day/night	■
	UE0	OnStar , delete	■
	9L4 (SEO)	Power supply 12 volt provides a 12 volt direct power supply from the battery with two separate 30 amp fused circuits. Each circuit has a 30 amp mini-fuse for both positive and ground to protect electrical accessories. Main supply lead has a 40 amp maxi-fuse. All fuses serviceable. Provides either direct battery power or operation through the ignition system. Hook-up wire is provided under the passenger side glove box. Operational amperage is 21 amps each circuit; 28 amps total. 1 - Required when SEO (PPV) Identifier, Police Vehicle is ordered.	■ ¹
	A95	Seats , front Custom Cloth reclining buckets, includes adjustable head restraints, inboard armrests, 6-way power adjustable driver seat and rear storage pockets	■
	5T5 (SEO)	Seats, 2nd row vinyl with front cloth , provides cloth front seats with power driver-side but retains standard vinyl trim on 2nd row seats.	■
	VPV	Ship Thru to Kerr Industries required for post plant assembly and 2nd stage optional content. Dealer "invoice only" charge for transportation costs to move vehicle from plant to 2nd stage activity and return vehicle to plant.	■
	UM7	Sound system , ETR AM/FM stereo includes seek-and-scan, digital clock 1 - Upgradeable to (UB0) Sound system, ETR AM/FM stereo with CD player.	□ ¹
		Air dam extension , delete	■
	7B7 (SEO)	Grille, painted provides an austere argent pick-up truck type grille, replacing the base chrome grille. 1 - Upgradeable to (V22) Grille, chrome surround.	□ ¹
	UT7	Ground studs , auxiliary, 2 per vehicle, rear compartment	■

**2006 Chevrolet Truck Tahoe Police
Vehicle**

EQUIPMENT GROUPS

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Requires a fleet or government sales order type. Equipment group 1ST available on CC15706 Model.	Comm
			1ST ¹
	G63	Luggage rack, delete	■
	UN9	Radio suppression, braided brass straps attaching to various body locations	■
	V76	Recovery hooks, 2 front, frame-mounted	■
		Recovery hook cover, delete	■
	QCP	Tires, H-rated, P255/70R16-109H	■
		Wheels, heavy-duty, with heavy-duty bolt-on center caps on road wheels only	■
	CD5	Wipers, anti-lift driver and passenger, intermittent, front wet-arm with pulse washers	■
	K47	Air cleaner, high-capacity	■
	KW1	Alternator, 160 amps	■
	7Y9 (SEO)	Battery, single 770 CCA, provides a 770 CCA HD cranking battery replacing the base 600 CCA battery 1 - Not available with (8Y9) Battery, dual 700 CCA.	■ ¹
	KNP	Cooling, external transmission oil cooler, auxiliary, heavy-duty air-to-oil	■
		Cooling, heavy-duty, high-capacity radiator and electric fans	■
	KC4	Cooling, engine oil, auxiliary, heavy-duty oil-to-coolant	■
	L59	Engine, Vortec 5300 V8 SFI Flex-Fuel capable of running on unleaded or up to 85% ethanol (295 HP [219.7 kW] @ 5200 rpm, 335 lb.-ft. [452.3 N-m] @ 4000 rpm)	■
	C7H	GVWR, 6400 lbs. (2903 kg)	■
		Lever, transmission selector with tow/haul mode, delete	■
		Prop shaft, high-speed balanced, police-rated	■
	GT4	Rear axle, 3.73 ratio	■
	PZZ	Skid Plate Package, includes only aluminum front underbody shield starting behind front bumper and running to 1st cross-member, protecting front underbody and oil pan	■
	Z56	Suspension, heavy-duty, police-rated, front, independent torsion bar, and stabilizer bar and rear, multi-link with coil springs	■

2006 Chevrolet Truck Tahoe Police Vehicle

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 - Requires a fleet or government sales order type. Equipment group 1ST available on CC15706 Model.	Comm
			1ST ¹
	AJ7	Air bags , side-impact, driver and right front passenger 1 - 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.	■ ¹
	9N5 (SEO)	Console delete , deletes the floor console that is included with bucket seats. deletes the floor console that is included with bucket seats. deletes the floor console and associated audio equipment that is included with bucket seats.	■
	BG9	Floor covering , rubberized vinyl, Black 1 - Deletes (B37) Floormats, color-keyed vinyl.	■ ¹
	PPV (SEO)	Identifier, Police Vehicle , utilized to identify a vehicle as a police/fire for marketing, order-build process and emission certification purposes. 1 - Must be specified.	■ ¹
		Instrumentation , analog, includes "certified" speedometer with 140 mph scale in 1 mph increments, odometer with trip odometer, fuel level, voltmeter, engine temperature, oil pressure and tachometer	■
	D31	Mirror , inside rearview, manual day/night	■
	UE0	OnStar , delete	■
	9L4 (SEO)	Power supply 12 volt provides a 12 volt direct power supply from the battery with two separate 30 amp fused circuits. Each circuit has a 30 amp mini-fuse for both positive and ground to protect electrical accessories. Main supply lead has a 40 amp maxi-fuse. All fuses serviceable. Provides either direct battery power or operation through the ignition system. Hook-up wire is provided under the passenger side glove box. Operational amperage is 21 amps each circuit; 28 amps total. 1 - Required when SEO (PPV) Identifier, Police Vehicle is ordered.	■ ¹
	A95	Seats , front Custom Cloth reclining buckets, includes adjustable head restraints, inboard armrests, 6-way power adjustable driver seat and rear storage pockets	■
	5T5 (SEO)	Seats, 2nd row vinyl with front cloth , provides cloth front seats with power driver-side but retains standard vinyl trim on 2nd row seats.	■
	VPV	Ship Thru to Kerr Industries required for post plant assembly and 2nd stage optional content. Dealer "invoice only" charge for transportation costs to move vehicle from plant to 2nd stage activity and return vehicle to plant.	■
	UM7	Sound system , ETR AM/FM stereo includes seek-and-scan, digital clock 1 - Upgradeable to (UB0) Sound system, ETR AM/FM stereo with CD player.	□ ¹
		Air dam extension , delete	■
	7B7 (SEO)	Grille, painted provides an austere argent pick-up truck type grille, replacing the base chrome grille. 1 - Upgradeable to (V22) Grille, chrome surround.	□ ¹
	UT7	Ground studs , auxiliary, 2 per vehicle, rear compartment	■

2006 Chevrolet Truck Tahoe Police Vehicle EQUIPMENT GROUPS

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Requires a fleet or government sales order type. Equipment group 1ST available on CC15706 Model.	Comm
			1ST ¹
	G63	Luggage rack, delete	■
	UN9	Radio suppression, braided brass straps attaching to various body locations	■
	V76	Recovery hooks, 2 front, frame-mounted	■
		Recovery hook cover, delete	■
	QCP	Tires, H-rated, P255/70R16-109H	■
		Wheels, heavy-duty, with heavy-duty bolt-on center caps on road wheels only	■
	CD5	Wipers, anti-lift driver and passenger, intermittent, front wet-arm with pulse washers	■
	K47	Air cleaner, high-capacity	■
	KW1	Alternator, 160 amps	■
	7Y9 (SEO)	Battery, single 770 CCA, provides a 770 CCA HD cranking battery replacing the base 600 CCA battery 1 - Not available with (8Y9) Battery, dual 700 CCA.	■ ¹
	KNP	Cooling, external transmission oil cooler, auxiliary, heavy-duty air-to-oil	■
		Cooling, heavy-duty, high-capacity radiator and electric fans	■
	KC4	Cooling, engine oil, auxiliary, heavy-duty oil-to-coolant	■
	L59	Engine, Vortec 5300 V8 SFI Flex-Fuel capable of running on unleaded or up to 85% ethanol (295 HP [219.7 kW] @ 5200 rpm, 335 lb.-ft. [452.3 N-m] @ 4000 rpm)	■
	C7H	GVWR, 6400 lbs. (2903 kg)	■
		Lever, transmission selector with tow/haul mode, delete	■
		Prop shaft, high-speed balanced, police-rated	■
	GT4	Rear axle, 3.73 ratio	■
	PZZ	Skid Plate Package, includes only aluminum front underbody shield starting behind front bumper and running to 1st cross-member, protecting front underbody and oil pan	■
	Z56	Suspension, heavy-duty, police-rated, front, independent torsion bar, and stabilizer bar and rear, multi-link with coil springs	■
ADDITIONAL OPTIONS			
Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Requires a fleet or government sales order type. Equipment group 1ST available on CC15706 Model.	Comm
			1ST ¹
RYJ		Cargo shade, only	A
B30		Floor covering, color-keyed carpeting 1 - Substitutable to (BG9) Floor covering, rubberized vinyl.	A ¹
B37		NEW! Floor mats, color-keyed, vinyl front and 2nd row, removable 1 - Not available when (BG9) Floor covering, rubberized vinyl is ordered.	A ¹
6E2 (SEO)		Key common, complete vehicle fleet, provides a single key with a specific code, that is common to the door locks and ignition of all the vehicles in the vehicle fleet. Key code is an alternate to SEO (6E8) Key common, complete vehicle fleet. Not compatible with 2006 Impala Police.	A

ADDITIONAL OPTIONS			
Free Flow RPO Code	Ref. Only RPO Code	Description	Comm
		1 - Requires a fleet or government sales order type. Equipment group 1ST available on CC15706 Model.	1ST ¹
6E8 (SEO)		Key common, complete vehicle fleet , provides a single key with a specific code, that is common to the door locks and ignition of all the vehicles in the vehicle fleet. Key code is an alternate to SEO (6E2) Key common, complete vehicle fleet. Not compatible with 2006 Impala Police.	A
AMF		Keyless entry, Remote Fleet Package , programmable, includes 6 additional remotes	A
6N6		Locks , rear door inoperative	A
5G4 (SEO)		Provision for Cab Roof-Mounted Lamp , instrument panel mounted switch and wiring to the roof of the cab over the driver area for body upfitter to install and connect a cab roof mounted warning or emergency lamp. 21 Amp nominal rating. Circuit access instructions are furnished	A
9R0 (SEO)		Sound system, AM/FM stereo with cassette, (MSRP = \$150.00) fleet option. AM/FM radio with cassette and digital clock	A
UB0		NEW! Sound system , ETR AM/FM stereo with CD player, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume and Radio Data System (RDS)	A
6N5 (SEO)		Switches , rear window inoperative (rear windows can only operate from driver's position)	A
BVE		Assist steps , Black, mounted between front and rear wheels	A
ANJ		Glass , non-deep tinted	A
V22		Grille , chrome surround	A
6B2		Handles , rear door inoperative (doors can only be opened from outside)	A
9G8 (SEO)		Headlamps, daytime running lamps and automatic headlamp control delete , deletes standard daytime running lamps and automatic headlamp control features from the vehicle for police stealth surveillance.	A
8X1 (SEO)		Label, fasten safety belts , provides a "Fasten Safety Belts" reminder label on side door	A
V54		Luggage rack , roof-mounted, Black, side rails only 1 - Center rails not available.	A ¹
9R4 (SEO)		Molding, bodyside delete , Deletes the bodyside molding forced on by LS Decor.	A
9V9 (SEO)		Paints, solid , Doeskin Tan 1 - Requires SEO (TGK) Special Paint, one color used with Black OSRVM.	A ¹
9W4 (SEO)		Paints, solid (MSRP = No Charge) , Tangier Orange 1 - Requires SEO (TGK) Special Paint, one color used with Black OSRVM.	A ¹
9W3 (SEO)		Paints, solid , Wheatland Yellow 1 - Requires SEO (TGK) Special Paint, one color used with Black OSRVM.	A ¹
9V5 (SEO)		Paints, solid , Woodland Green 1 - Requires SEO (TGK) Special Paint, one color used with Black OSRVM.	A ¹
		Paints, solid (MSRP = \$180.00) , WA-9260, Victory Red 1 - Must specify WA-9260 when ordering. Requires SEO (TGK), Special Paint One Color used with Black OSRVM.	A ¹

ADDITIONAL OPTIONS			
Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Requires a fleet or government sales order type. Equipment group 1ST available on CC15706 Model.	Comm
			1ST ¹
7X6 (SEO)		Spotlamp , left-hand	A
7X7 (SEO)		Spotlamps , left- and right-hand	A
8Y9 (SEO)		Battery , dual 700 CCA, provides dual batteries powering the starter. Each battery is 770 CCA.	A
G80		Differential , locking, heavy-duty, rear	A
FE9		Emissions , Federal requirements	A
YF5		Emissions , California state requirements	A
NE1		Emissions , Maine, Massachusetts, New York or Vermont state requirements	A
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
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
K05		Engine block heater	A

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Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Requires a fleet or government sales order type. Equipment group 1ST available on CC15706 Model.	Comm
			1ST ¹
	AJ7	Air bags, side-impact, driver and right front passenger	■
	K47	Air cleaner, high-capacity	■
		Air dam extension, delete	■
	KW1	Alternator, 160 amps	■
	7Y9 (SEO)	Battery, single 770 CCA, provides a 770 CCA HD cranking battery	■
	9N5 (SEO)	Console delete, deletes the floor console that is included with bucket seats.	■
	KNP	Cooling, external transmission oil cooler	■
		Cooling, heavy-duty, high-capacity radiator and electric fans	■
	KC4	Cooling, engine oil, auxiliary, heavy-duty oil-to-coolant	■
	L59	Engine, Vortec 5300 V8 SFI Flex-Fuel	■
	BG9	Floor covering, rubberized vinyl, Black	■
	7B7 (SEO)	Grille, painted 1 - Upgradeable to (V22) Grille, chrome surround.	□ ¹
	UT7	Ground studs, auxiliary	■
	C7H	GVWR, 6400 lbs. (2903 kg)	■
	PPV (SEO)	Identifier, Police Vehicle, utilized to identify a vehicle as a police/fire for marketing, order-build process and emission certification purposes.	■
		Instrumentation, analog	■
		Lever, transmission selector with tow/haul mode, delete	■
	G63	Luggage rack, delete	■
	D31	Mirror, inside rearview	■
	UE0	OnStar, delete	■
	9L4 (SEO)	Power supply 12 volt	■
		Prop shaft, high-speed balanced, police-rated	■
	UN9	Radio suppression, braided brass straps attaching to various body locations	■
	GT4	Rear axle, 3.73 ratio	■
		Recovery hook cover, delete	■

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Requires a fleet or government sales order type. Equipment group 1ST available on CC15706 Model.	Comm
			1ST ¹
	V76	Recovery hooks, 2 front, frame-mounted	■
	A95	Seats, front Custom Cloth reclining buckets	■
	5T5 (SEO)	Seats, 2nd row vinyl with front cloth, provides cloth front seats with power driver-side but retains standard vinyl trim on 2nd row seats.	■
	VPV	Ship Thru to Kerr Industries required for post plant assembly and 2nd stage optional content. Dealer "invoice only" charge for transportation costs to move vehicle from plant to 2nd stage activity and return vehicle to plant.	■
	PZZ	Skid Plate Package,	■
	UM7	Sound system, ETR AM/FM stereo includes seek-and-scan, digital clock 1 - Upgradeable to (UB0) Sound system, ETR AM/FM stereo with CD player.	□ ¹
	Z56	Suspension, heavy-duty, police-rated, front	■
	QCP	Tires, H-rated, P255/70R16-109H	■
		Wheels, heavy-duty	■
	CD5	Wipers, anti-lift driver and passenger, intermittent, front wet-arm with pulse washers	■

2006 Chevrolet Truck Tahoe Police INTERIOR
Vehicle

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Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Requires a fleet or government sales order type. Equipment group 1ST available on CC15706 Model.	Comm
			1ST ¹
		Air bags , frontal, dual-stage, driver and right front passenger, includes Passenger Sensing System (front passenger air bag status on inside rearview mirror) 1 - 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
	AJ7	Air bags , side-impact, driver and right front passenger 1 - 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.	■ ¹
	CJ3	Air conditioning , tri-zone, manual, individual climate settings for driver, right front passenger and rear passengers, includes front controls	S
		Assist handles , front passenger and outboard 2nd row seats	S
RYJ		Cargo shade , only	A
		Console , overhead mini, includes map lights and rear seat HVAC controls	S
	9N5 (SEO)	Console delete , deletes the floor console that is included with bucket seats. deletes the floor console that is included with bucket seats. deletes the floor console and associated audio equipment that is included with bucket seats.	■
	K34	Cruise control , electronic with set and resume speed, includes telltale in instrument panel cluster	S
	C49	Defogger , rear-window, electric	S
	AU3	Door locks , power programmable, includes lockout protection	S
		Driver Message Center , monitors vehicle systems including low fuel, transmission temperature, engine coolant, security, oil level, oil pressure and oil change	S
	BG9	Floor covering , rubberized vinyl, Black 1 - Deletes (B37) Floormats, color-keyed vinyl.	■ ¹
B30		Floor covering , color-keyed carpeting 1 - Substitutable to (BG9) Floor covering, rubberized vinyl.	A ¹
B37		NEW! Floormats , color-keyed, vinyl front and 2nd row, removable 1 - Not available when (BG9) Floor covering, rubberized vinyl is ordered.	A ¹
		Headliner , cloth	S
	PPV (SEO)	Identifier, Police Vehicle , utilized to identify a vehicle as a police/fire for marketing, order-build process and emission certification purposes. 1 - Must be specified.	■ ¹
		Instrumentation , analog, includes "certified" speedometer with 140 mph scale in 1 mph increments, odometer with trip odometer, fuel level, voltmeter, engine temperature, oil pressure and tachometer	■
		Key , single, 2-sided, random code	S

2006 Chevrolet Truck Tahoe Police INTERIOR
Vehicle

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Requires a fleet or government sales order type. Equipment group 1ST available on CC15706 Model.	Comm
			1ST ¹
6E2 (SEO)		Key common, complete vehicle fleet , provides a single key with a specific code, that is common to the door locks and ignition of all the vehicles in the vehicle fleet. Key code is an alternate to SEO (6E8) Key common, complete vehicle fleet. Not compatible with 2006 Impala Police.	A
6E8 (SEO)		Key common, complete vehicle fleet , provides a single key with a specific code, that is common to the door locks and ignition of all the vehicles in the vehicle fleet. Key code is an alternate to SEO (6E2) Key common, complete vehicle fleet. Not compatible with 2006 Impala Police.	A
	AU0	Keyless entry , remote, includes 2 transmitters, panic button and content theft alarm	S
AMF		Keyless entry, Remote Fleet Package , programmable, includes 6 additional remotes	A
		Lighting , dome lamp, driver and passenger side door switch with delayed entry, cargo lamps, map lights in front and 2nd seat positions	S
6N6		Locks , rear door inoperative	A
	D31	Mirror , inside rearview, manual day/night	■
	UE0	OnStar , delete	■
		Power outlets , auxiliary, 2 on instrument panel, 1 in cargo area, 12-volt	S
	9L4 (SEO)	Power supply 12 volt provides a 12 volt direct power supply from the battery with two separate 30 amp fused circuits. Each circuit has a 30 amp mini-fuse for both positive and ground to protect electrical accessories. Main supply lead has a 40 amp maxi-fuse. All fuses serviceable. Provides either direct battery power or operation through the ignition system. Hook-up wire is provided under the passenger side glove box. Operational amperage is 21 amps each circuit; 28 amps total. 1 - Required when SEO (PPV) Identifier, Police Vehicle is ordered.	■ ¹
5G4 (SEO)		Provision for Cab Roof-Mounted Lamp , instrument panel mounted switch and wiring to the roof of the cab over the driver area for body upfitter to install and connect a cab roof mounted warning or emergency lamp. 21 Amp nominal rating. Circuit access instructions are furnished	A
		Safety belts , 3-point, driver and front passenger, in all seating positions except center seating position in 1st and 3rd row which are lap only	S
		LATCH system , (Lower Anchors and Top tethers for CHildren), for child safety seats	S
	A95	Seats , front Custom Cloth reclining buckets, includes adjustable head restraints, inboard armrests, 6-way power adjustable driver seat and rear storage pockets	■
	5T5 (SEO)	Seats, 2nd row vinyl with front cloth , provides cloth front seats with power driver-side but retains standard vinyl trim on 2nd row seats.	■
	VPV	Ship Thru to Kerr Industries required for post plant assembly and 2nd stage optional content. Dealer "invoice only" charge for transportation costs to move vehicle from plant to 2nd stage activity and return vehicle to plant.	■
	UM7	Sound system , ETR AM/FM stereo includes seek-and-scan, digital clock 1 - Upgradeable to (UB0) Sound system, ETR AM/FM stereo with CD player.	□ ¹
9R0 (SEO)		Sound system, AM/FM stereo with cassette, (MSRP = \$150.00) fleet option. AM/FM radio with cassette and digital clock	A
UB0		NEW! Sound system , ETR AM/FM stereo with CD player, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume and Radio Data System (RDS)	A
	UQ3	Sound system feature , 8-speakers	S
		Steering column , Tilt-Wheel, adjustable, includes brake/transmission shift interlock	S

**2006 Chevrolet Truck Tahoe Police INTERIOR
Vehicle**

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Requires a fleet or government sales order type. Equipment group 1ST available on CC15706 Model.	Comm
			1ST ¹
	NK5	Steering wheel , steel sleeve, includes theft-deterrent locking feature	S
6N5 (SEO)		Switches , rear window inoperative (rear windows can only operate from driver's position)	A
		Theft-deterrent system , PASSlock II	S
	UJ6	Tire pressure monitor (Includes sensor to spare tire. Spare tire sensor not programmable.)	S
	DH6	Visors , padded, driver and passenger side with cloth trim, extenders, illuminated vanity mirrors and corner storage pockets on back of visors	S
		Warning tones , headlamp on, key-in-ignition, driver and right front passenger safety belt unfasten, turn signal on	S
	A31	Windows , power, includes driver express-down and lockout features	S

2006 Chevrolet Truck Tahoe Police Vehicle

EXTERIOR

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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 - Requires a fleet or government sales order type. Equipment group 1ST available on CC15706 Model.	Comm
			1ST ¹
		Air dam, Gray	S
		Air dam extension, delete	■
BVE		Assist steps, Black, mounted between front and rear wheels	A
	E52	Body, liftgate with liftglass, rear door system, includes rear-window wiper/washer	S
	VG3	Bumper, front, chrome	S
	VB3	Bumper, rear, chrome step, includes pad	S
		Daytime running lamps, includes automatic exterior lamp control	S
		Door handles, Matte Black	S
	AJ1	Glass, Solar-Ray deep tinted (all windows except light tinted glass on windshield, driver and front passenger) 1 - Substitutable to (ANJ) Glass, non-deep tinted.	S ¹
ANJ		Glass, non-deep tinted	A
V22		Grille, chrome surround	A
	7B7 (SEO)	Grille, painted provides an austere argent pick-up truck type grille, replacing the base chrome grille. 1 - Upgradeable to (V22) Grille, chrome surround.	□ ¹
	UT7	Ground studs, auxiliary, 2 per vehicle, rear compartment	■
6B2		Handles, rear door inoperative (doors can only be opened from outside)	A
		Headlamps, dual halogen composite, includes flash-to-pass feature and automatic lamp control	S
9G8 (SEO)		Headlamps, daytime running lamps and automatic headlamp control delete, deletes standard daytime running lamps and automatic headlamp control features from the vehicle for police stealth surveillance.	A
8X1 (SEO)		Label, fasten safety belts, provides a "Fasten Safety Belts" reminder label on side door	A
V54		Luggage rack, roof-mounted, Black, side rails only 1 - Center rails not available.	A ¹
	G63	Luggage rack, delete	■
	DL8	Mirrors, outside rearview, foldaway, power adjustable, heated	S
	B85	Moldings, bodyside	S
9R4 (SEO)		Molding, bodyside delete, Deletes the bodyside molding forced on by LS Decor.	A
9V9 (SEO)		Paints, solid, Doeskin Tan 1 - Requires SEO (TGK) Special Paint, one color used with Black OSRVM.	A ¹

2006 Chevrolet Truck Tahoe Police EXTERIOR
Vehicle

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Requires a fleet or government sales order type. Equipment group 1ST available on CC15706 Model.	Comm
			1ST ¹
9W4 (SEO)		Paints, solid (MSRP = No Charge), Tangier Orange 1 - Requires SEO (TGK) Special Paint, one color used with Black OSRVM.	A ¹
9W3 (SEO)		Paints, solid, Wheatland Yellow 1 - Requires SEO (TGK) Special Paint, one color used with Black OSRVM.	A ¹
9V5 (SEO)		Paints, solid, Woodland Green 1 - Requires SEO (TGK) Special Paint, one color used with Black OSRVM.	A ¹
		Paints, solid (MSRP = \$180.00), WA-9260, Victory Red 1 - Must specify WA-9260 when ordering. Requires SEO (TGK), Special Paint One Color used with Black OSRVM.	A ¹
	UN9	Radio suppression , braided brass straps attaching to various body locations	■
	V76	Recovery hooks , 2 front, frame-mounted	■
		Recovery hook cover , delete	■
7X6 (SEO)		Spotlamp , left-hand	A
7X7 (SEO)		Spotlamps , left- and right-hand	A
	SAF	Tire carrier , lockable, outside spare, winch-type mounted under frame at rear	S
		Tire , spare, full-size, located at rear underbody of vehicle, blackwall	S
	QCP	Tires , H-rated, P255/70R16-109H	■
		Wheels , heavy-duty, with heavy-duty bolt-on center caps on road wheels only	■
	CD5	Wipers , anti-lift driver and passenger, intermittent, front wet-arm with pulse washers	■

2006 Chevrolet Truck Tahoe Police Vehicle

MECHANICAL

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 - Requires a fleet or government sales order type. Equipment group 1ST available on CC15706 Model.	Comm
			1ST ¹
	K47	Air cleaner, high-capacity	■
	KW1	Alternator, 160 amps	■
	7Y9 (SEO)	Battery, single 770 CCA, provides a 770 CCA HD cranking battery replacing the base 600 CCA battery 1 - Not available with (8Y9) Battery, dual 700 CCA.	■ ¹
8Y9 (SEO)		Battery, dual 700 CCA, provides dual batteries powering the starter. Each battery is 770 CCA.	A
		Brakes, 4-wheel antilock, 4-wheel disc, hydroboost	S
	KNP	Cooling, external transmission oil cooler, auxiliary, heavy-duty air-to-oil	■
		Cooling, heavy-duty, high-capacity radiator and electric fans	■
	KC4	Cooling, engine oil, auxiliary, heavy-duty oil-to-coolant	■
G80		Differential, locking, heavy-duty, rear	A
FE9		Emissions, Federal requirements	A
YF5		Emissions, California state requirements	A
NE1		Emissions, Maine, Massachusetts, New York or Vermont state requirements	A
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
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
	L59	Engine, Vortec 5300 V8 SFI Flex-Fuel capable of running on unleaded or up to 85% ethanol (295 HP [219.7 kW] @ 5200 rpm, 335 lb.-ft. [452.3 N-m] @ 4000 rpm)	■
K05		Engine block heater	A
	C7H	GVWR, 6400 lbs. (2903 kg)	■
		Lever, transmission selector with tow/haul mode, delete	■
		Prop shaft, high-speed balanced, police-rated	■
	GT4	Rear axle, 3.73 ratio	■
	PZZ	Skid Plate Package, includes only aluminum front underbody shield starting behind front bumper and running to 1st cross-member, protecting front underbody and oil pan	■
		Steering, power	S

2006 Chevrolet Truck Tahoe Police MECHANICAL
Vehicle

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Requires a fleet or government sales order type. Equipment group 1ST available on CC15706 Model.	Comm
			1ST ¹
	Z56	Suspension , heavy-duty, police-rated, front, independent torsion bar, and stabilizer bar and rear, multi-link with coil springs	■
	M30	Transmission , 4-speed automatic, heavy-duty, electronically controlled with overdrive	S

**2006 Chevrolet Truck Tahoe Police
Vehicle**

ENGINE/AXLE

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	GT4 3.73	C7H 6400 (2903)
CC15706	L59 Vortec 5300 V8 SFI	S	S	S

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
				Gray/ Dark Charcoal ¹
Commercial	Front high-back reclining bucket	A95	Custom Cloth	92D

Exterior Solid Paint	Color Code	Touch Up Paint Number	Interior
			Gray/ Dark Charcoal ¹
Dark Blue Metallic ²	25U	WA-722J	A
Bermuda Blue Metallic ³	26U	WA-214M	A
Black ²	41U	WA-8555	A
Summit White ²	50U	WA-8624	A
Silver Birch Metallic ²	59U	WA-926L	A
Dark Gray Metallic ²	62U	WA-805K	A
Sport Red Metallic ²	63U	WA-817K	A

1 - Interior color has lighter/darker two-tone effect.

2 - Bodyside molding, front bumper pad and door handles are Matte Black.

3 - Bodyside molding, front bumper pad and door handles are Matte Black. Available at extra charge.

**2006 Chevrolet Truck Tahoe Police
Vehicle**

COLOR AND TRIM - SEO SOLID PAINT

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
				Gray/ Dark Charcoal ¹
Commercial	Front high-back reclining bucket	A95	Custom Cloth	92D

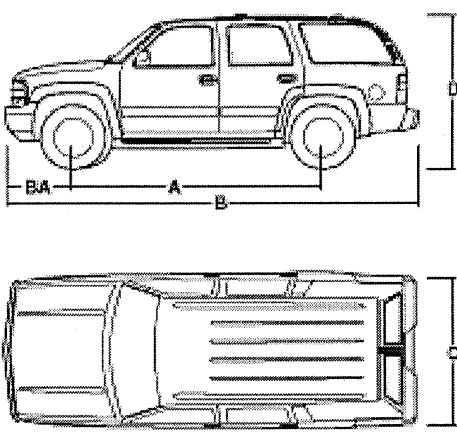
Exterior Solid Paint	Color Code	Touch Up Paint Number	Interior
			Gray/ Dark Charcoal ¹
Blue	none	WA-5665	A
Green	none	WA-7941	A
Woodland Green	9V5	WA-9015	A
Victory Red ²	none	WA-9260	A
Doeskin Tan	9V9	WA-9403	A
Yellow	none	WA-9414	A
Tangier Orange	9W4	WA-9417	A
Wheatland Yellow	9W3	WA-253A	A
Dark Toreador Red	none	WA-334D	A
NEW! Indigo Blue	none	WA-9792	A

All wheel flares, OSRV mirror backs and door handles are Black

1 - Interior color has lighter/darker two-tone effect.

2 - Must specify WA-9260 when ordering.

All dimensions in inches (mm) unless otherwise stated.

		Specifications	CC15706 2-Wheel Drive
	A	Wheelbase	116.00 (2946)
	B	Overall length	198.80 (5050)
	C	Body width	78.80 (2002)
	D	Overall height	72.00 (1829)
		Overall height, with optional luggage rack	75.00 (1905)
		Head room, front	40.70 (1034)
		Head room, center	39.40 (1001)
		Head room, rear	37.40 (950)
		Shoulder room, front	65.20 (1656)
		Shoulder room, center	65.10 (1654)
		Shoulder room, rear	64.40 (1636)
		Hip room, front	61.40 (1560)
		Hip room, center	61.30 (1557)
		Hip room, rear	49.20 (1250)
		Leg room, front	41.30 (1049)
		Leg room, center	38.60 (980)
		Leg room, rear	27.30 (693)
	BA	Front bumper to axle	37.00 (940)
		Inside width, at floor	59.80 (1519)
		Ground to top of rear load floor	31.00 (787)
		Load floor length, to front seat, at floor	84.20 (2139)
		Load floor length, to center	49.80

**2006 Chevrolet Truck Tahoe Police
Vehicle**

DIMENSIONS

All dimensions in inches (mm) unless otherwise stated.


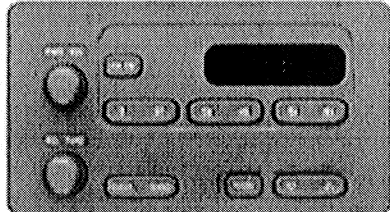
	Specifications	CC15706 2-Wheel Drive
	seat, at floor	(1265)
	Load floor length, to rear seat, at floor	13.80 (351)
	Inside width, between wheelhousing	49.10 (1247)
	Cargo area height	41.50 (1054)
	Ground clearance, front	8.75 (222)
	Ground clearance, rear	7.75 (197)

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.

CC15706 2-Wheel Drive	
Specifications	
Front shock absorber diameter, in. (mm)	1.81 (46)
Front stabilizer bar diameter, in. (mm)	1.28 (33)
Rear shock absorber diameter, in. (mm)	1.81 (46)
Rear stabilizer bar diameter, in. (mm)	1.18 (30)
Turning diameter, curb-to-curb, ft. (m)	38.3 (11.7)
Capacities	
Front axle, lbs. (kg)	3400 (1542)
Front spring capacity, lbs. (kg)	3200 (1452)
Rear axle, lbs. (kg)	4000 (1814)
Rear spring capacity, lbs. (kg)	3500 (1588)
Curb weight, lbs. (kg)	5002 (2269)
Cargo volume, cu. ft. (liters)	104.6 (2962.3)
Payload ¹ , lbs. (kg)	1398 (634)
Gross Vehicle Weight Rating (GVWR), lbs. (kg)	6400 (2903)
Front Gross Axle Weight Rating (GAWR), lbs. (kg)	3200 (1452)
Rear Gross Axle Weight Rating (GAWR), lbs. (kg)	3500 (1588)
Fuel capacity, approximate, gallon (liters)	26 (98)
Seating capacity (front/center/rear)	3/3/0
1. Maximum payload capacity includes weight of driver, passengers, optional equipment and cargo.	



Wheels, heavy-duty, with heavy-duty bolt-on center caps on road wheels only

 A black car stereo unit with a digital display showing '3 10.1' and '98.1'. It features various buttons and knobs for control.	<p>UB0 Sound system, ETR AM/FM stereo with CD player, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume and Radio Data System (RDS)</p>
 A black car stereo unit with a digital display and several buttons. It has a more compact design than the UB0 unit.	<p>UM7 Sound system, ETR AM/FM stereo includes seek-and-scan, digital clock</p>

**2006 Chevrolet Truck Tahoe Police
Vehicle**

RPO CODES

Option Code	Description
5G4 (SEO)	Provision for Cab Roof-Mounted Lamp,
5T5 (SEO)	Seats, 2nd row vinyl with front cloth, provides cloth front seats with power driver-side but retains standard vinyl trim on 2nd row seats.
6B2	Handles, rear door inoperative
6E2 (SEO)	Key common, complete vehicle fleet
6E8 (SEO)	Key common, complete vehicle fleet
6N5 (SEO)	Switches, rear window inoperative
6N6	Locks, rear door inoperative
7B7 (SEO)	Grille, painted
7X6 (SEO)	Spotlamp, left-hand
7X7 (SEO)	Spotlamps, left- and right-hand
7Y9	Battery, Single 770 CCA (MSRP = \$56.00)
7Y9 (SEO)	Battery, single 770 CCA, provides a 770 CCA HD cranking battery
8X1 (SEO)	Label, fasten safety belts, provides a "Fasten Safety Belts" reminder label on side door
8Y9 (SEO)	Battery, dual 700 CCA, provides dual batteries powering the starter. Each battery is 770 CCA.
9G8 (SEO)	Headlamps, daytime running lamps and automatic headlamp control delete, deletes standard daytime running lamps and automatic headlamp control features from the vehicle for police stealth surveillance.
9L4 (SEO)	Power supply 12 volt
9N5 (SEO)	Console delete, deletes the floor console that is included with bucket seats.
9R0 (SEO)	Sound system, AM/FM stereo with cassette, (MSRP = \$150.00)
9R4 (SEO)	Molding, bodyside delete, Deletes the bodyside molding forced on by LS Decor.
9V5 (SEO)	Paints, solid, Woodland Green
9V9 (SEO)	Paints, solid, Doeskin Tan
9W3 (SEO)	Paints, solid, Wheatland Yellow
9W4 (SEO)	Paints, solid (MSRP = No Charge), Tangler Orange
A31	Windows, power
A95	Seats, front Custom Cloth reclining buckets
AJ1	Glass, Solar-Ray deep tinted
AJ7	Air bags, side-impact, driver and right front passenger
AMF	Keyless entry, Remote Fleet Package, programmable,
ANJ	Glass, non-deep tinted
AU0	Keyless entry, remote
AU3	Door locks, power programmable
B30	Floor covering, color-keyed carpeting
B37	Floormats
B85	Moldings, bodyside
BG9	Floor covering, rubberized vinyl, Black
BVE	Assist steps, Black
C49	Defogger, rear-window, electric
C7H	GVWR, 6400 lbs. (2903 kg)
CD5	Wipers, anti-lift driver and passenger, intermittent, front wet-arm with pulse washers
CJ3	Air conditioning, tri-zone, manual
D31	Mirror, inside rearview
DH6	Visors, padded
DL8	Mirrors, outside rearview, foldaway, power adjustable, heated
E52	Body, liftgate with liftglass
FE9	Emissions, Federal requirements

Option Code	Description
G63	Luggage rack, delete
G80	Differential, locking, heavy-duty, rear
GT4	Rear axle, 3.73 ratio
K05	Engine block heater
K34	Cruise control
K47	Air cleaner, high-capacity
KC4	Cooling, engine oil, auxiliary, heavy-duty oil-to-coolant
KNP	Cooling, external transmission oil cooler
KW1	Alternator, 160 amps
L59	Engine, Vortec 5300 V8 SFI Flex-Fuel
M30	Transmission, 4-speed automatic
NB8	Emissions override
NC7	Emissions override, Federal
NE1	Emissions, Maine, Massachusetts, New York or Vermont state requirements
NK5	Steering wheel, steel sleeve, includes theft-deterrent locking feature
PPV (SEO)	Identifier, Police Vehicle, utilized to identify a vehicle as a police/fire for marketing, order-build process and emission certification purposes.
PZZ	Skid Plate Package,
QCP	Tires, H-rated, P255/70R16-109H
RYJ	Cargo shade, only
SAF	Tire carrier, lockable
UB0	Sound system, ETR AM/FM stereo with CD player
UE0	OnStar, delete
UJ6	Tire pressure monitor
UM7	Sound system, ETR AM/FM stereo includes seek-and-scan, digital clock
UN9	Radio suppression, braided brass straps attaching to various body locations
UQ3	Sound system feature, 8-speakers
UT7	Ground studs, auxiliary
V22	Grille, chrome surround
V54	Luggage rack, roof-mounted, Black
V76	Recovery hooks, 2 front, frame-mounted
VB3	Bumper, rear, chrome step
VG3	Bumper, front, chrome
VPV	Ship Thru to Kerr Industries required for post plant assembly and 2nd stage optional content. Dealer "invoice only" charge for transportation costs to move vehicle from plant to 2nd stage activity and return vehicle to plant.
YF5	Emissions, California state requirements
Z56	Suspension, heavy-duty, police-rated, front

2006 Chevrolet Truck Tahoe Special STANDARD EQUIPMENT
Service Vehicle

S = Standard Equipment A = Available -- (dashes) = Not Available

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Free Flow RPO Code	Ref. Only RPO Code	Description	Comm
		1 - Requires a fleet or government sales order type. Equipment group 1ST available on CK15706 Model. Note: Must specify (5W4) Identifier, Special Service Vehicle RPO Code.	1ST ¹
		Air bags , frontal, dual-stage, driver and right front passenger, includes Passenger Sensing System (front passenger air bag status on inside rearview mirror) 1 - 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
	CJ3	Air conditioning , tri-zone, manual, individual climate settings for driver, right front passenger and rear passengers, includes front controls	S
		Assist handles , front passenger and outboard 2nd row seats	S
		Console , overhead mini includes map lights and rear seat HVAC controls	S
	K34	Cruise control , electronic with set and resume speed, includes telltale in instrument panel cluster	S
	C49	Defogger , rear-window, electric	S
	AU3	Door locks , power programmable, includes lockout protection	S
		Driver Information Center , monitors numerous systems	S
	B37	NEW! Floor mats , color-keyed, vinyl front and 2nd row, removable 1 - Deleted when (BG9) Floor covering, rubberized vinyl is ordered.	S ¹
		Headliner , cloth	S
		Instrumentation , analog, includes speedometer, odometer with trip odometer, fuel level, voltmeter, engine temperature, oil pressure and tachometer	S
		Key , single, 2-sided	S
	AU0	Keyless entry , remote, includes 2 transmitters, panic button and content theft alarm	S
		Lighting , dome lamp, driver and passenger side door switch with delayed entry feature, cargo lamps, map lights in front and 2nd seat positions	S
		Power outlets , auxiliary, 2 on instrument panel, 1 in cargo area, 12-volt	S
		Safety belts , 3-point, driver and front passenger, in all seating positions except center seating position in 1st and 3rd row which are lap only	S
		LATCH system , (Lower Anchors and Top tethers for CHildren), for child safety seats	S
	AT5	Seats , middle Custom Cloth 60/40 split-folding bench, 3-passenger with center armrest	S
	UQ3	Sound system feature , 8-speakers	S
		Steering column , Tilt-Wheel, adjustable, includes brake/transmission shift interlock	S
	NK5	Steering wheel , steel sleeve, includes theft-deterrent locking feature	S
		Theft-deterrent system , PASSlock II	S
	UJ6	Tire pressure monitoring system (does not apply to spare tire)	S
	DH6	Visors , padded, driver and passenger side with cloth trim, extenders, illuminated vanity mirrors and corner storage pockets on back of visors	S

2006 Chevrolet Truck Tahoe Special Service Vehicle STANDARD EQUIPMENT

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Requires a fleet or government sales order type. Equipment group 1ST available on CK15706 Model. Note: Must specify (5W4) Identifier, Special Service Vehicle RPO Code.	Comm
			1ST ¹
		Warning tones , headlamp on, key-in-ignition, driver and right front passenger safety belt unfasten, turn signal on	S
	A31	Windows , power, includes driver express-down and lockout features	S
		Air dam , Gray	S
	E52	Body , liftgate with liftglass, rear door system, includes rear-window wiper/washer	S
	VG3	Bumper , front, chrome	S
	VB3	Bumper , rear, chrome step, includes pad	S
		Daytime running lamps , includes automatic exterior lamp control	S
		Door handles , Matte Black	S
	AJ1	Glass , Solar-Ray deep tinted (all windows except light tinted glass on windshield, driver and front passenger) 1 - Substitutable to (ANJ) Glass, non-deep tinted.	S ¹
	V22	Grille , chrome surround	S
		Headlamps , dual halogen composite, includes flash-to-pass feature and automatic lamp control	S
	V54	Luggage rack , roof-mounted, Black, side rails only 1 - Center rails available in (PDC) Cargo Package.	S ¹
	DL8	Mirrors , outside rearview, foldaway, power adjustable, heated	S
	B85	Moldings , bodyside	S
	V76	Recovery hooks , front, frame-mounted	S
	SAF	Tire carrier , lockable, outside spare, winch-type mounted under frame at rear	S
		Tire , spare, full-size, 16" (40.6 cm) steel wheel located at rear underbody of vehicle, blackwall	S
		Wipers , intermittent, front wet-arm with pulse washers	S
	KW1	Alternator , 160 amps	S
		Battery , heavy-duty, 600 cold-cranking amps, includes rundown protection and retained accessory power 1 - Upgradeable to (7Y9) Battery, single 770 CCA.	S ¹
		Brakes , 4-wheel antilock, 4-wheel disc, hydroboost	S
	L59	Engine , Vortec 5300 V8 SFI Flex-Fuel capable of running on unleaded or up to 85% ethanol (295 HP [219.7 kW] @ 5200 rpm, 335 lb.-ft. [452.3 N-m] @ 4000 rpm)	S
		Steering , power	S
		Suspension , front, independent torsion bar, and stabilizer bar	S
		Suspension , rear, multi-link with coil springs	S
	ZQ1	Suspension Package , Smooth Ride	S
		Trailer wiring harness , 7-wire	S
	NP8	Transfer case , electronic Autotrac, includes push-button controls	S
	M30	Transmission , 4-speed automatic, electronically controlled with overdrive and tow/haul mode	S

2006 Chevrolet Truck Tahoe Special Service Vehicle EQUIPMENT GROUPS

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.

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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 - Requires a fleet or government sales order type. Equipment group 1ST available on CK15706 Model. Note: Must specify (5W4) Identifier, Special Service Vehicle RPO Code.	Comm
			1ST ¹
	B30	Floor covering , color-keyed carpeting 1 - Substitutable to (BG9) Floor covering, rubberized vinyl.	□ ¹
	5W4 (SEO)	Identifier, Special Service Vehicle, (MSRP = No charge) , utilized to identify a vehicle as a police/fire special service vehicle for marketing, order-build process and certification purposes 1 - Must be specified.	■ ¹
	D31	Mirror , inside rearview, manual day/night	■
	AE7	Seats , front Custom Cloth 40/20/40 split-bench, 3-passenger, driver and passenger manual reclining, outboard head restraints, center fold-down storage armrest, 6-way power adjustable driver seat and rear storage pockets 1 - Upgradeable to (A95) Seats, front Custom Cloth reclining buckets.	□ ¹
	UM7	Sound system , ETR AM/FM stereo includes seek-and-scan, digital clock 1 - Requires (AE7) Seats, front 40/20/40 split-bench or (9N5) Console, delete. Upgradeable to (UB0) Sound system, ETR AM/FM stereo with CD player.	□ ¹
	QNL	Tires , P245/75R16, all-season, White outlined-letter 1 - Upgradeable to (QBN) Tires, LT245/75R16C, on/off-road, blackwall.	□ ¹
	QB5	Wheels , 4 - 16" X 6.5" (40.6 cm x 16.5 cm) steel disc 1 - Upgradeable to (PF9) Wheels, 4 - 16" x 7" (40.6 cm x 17.8 cm) 6-lug cast aluminum.	□ ¹
	C7K	GVWR , 6500 lbs. (2948 kg)	■
	GU6	Rear axle , 3.42 ratio 1 - Upgradeable to (GT5) Rear axle, 4.10 ratio.	□ ¹

2006 Chevrolet Truck Tahoe Special Service Vehicle 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 - Requires a fleet or government sales order type. Equipment group 1ST available on CK15706 Model. Note: Must specify (5W4) Identifier, Special Service Vehicle RPO Code.	Comm
			1ST ¹
	B30	Floor covering, color-keyed carpeting 1 - Substitutable to (BG9) Floor covering, rubberized vinyl.	□ ¹
	5W4 (SEO)	Identifier, Special Service Vehicle, (MSRP = No charge), utilized to identify a vehicle as a police/fire special service vehicle for marketing, order-build process and certification purposes 1 - Must be specified.	■ ¹
	D31	Mirror, inside rearview, manual day/night	■
	AE7	Seats, front Custom Cloth 40/20/40 split-bench, 3-passenger, driver and passenger manual reclining, outboard head restraints, center fold-down storage armrest, 6-way power adjustable driver seat and rear storage pockets 1 - Upgradeable to (A95) Seats, front Custom Cloth reclining buckets.	□ ¹
	UM7	Sound system, ETR AM/FM stereo includes seek-and-scan, digital clock 1 - Requires (AE7) Seats, front 40/20/40 split-bench or (9N5) Console, delete. Upgradeable to (UB0) Sound system, ETR AM/FM stereo with CD player.	□ ¹
	QNL	Tires, P245/75R16, all-season, White outlined-letter 1 - Upgradeable to (QBN) Tires, LT245/75R16C, on/off-road, blackwall.	□ ¹
	QB5	Wheels, 4 - 16" X 6.5" (40.6 cm x 16.5 cm) steel disc 1 - Upgradeable to (PF9) Wheels, 4 - 16" x 7" (40.6 cm x 17.8 cm) 6-lug cast aluminum.	□ ¹
	C7K	GVWR, 6500 lbs. (2948 kg)	■
	GU6	Rear axle, 3.42 ratio 1 - Upgradeable to (GT5) Rear axle, 4.10 ratio.	□ ¹
ADDITIONAL OPTIONS			
Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Requires a fleet or government sales order type. Equipment group 1ST available on CK15706 Model. Note: Must specify (5W4) Identifier, Special Service Vehicle RPO Code.	Comm
			1ST ¹
AJ7		Air bags, side-impact, driver and right front passenger 1 - Not available with vinyl front seats. 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
PDC		Cargo Package, includes (RYJ) Cargo shade, (AP9) Cargo net, (B39) Cargo mat and (V1K) Luggage rack center rails. When (AS3) Seats, rear 3rd row 50/50 split-bench is ordered, package does not include (RYJ) Cargo shade or (B39) Cargo mat	A

2006 Chevrolet Truck Tahoe Special Service Vehicle EQUIPMENT GROUPS

ADDITIONAL OPTIONS			
Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Requires a fleet or government sales order type. Equipment group 1ST available on CK15706 Model. Note: Must specify (5W4) Identifier, Special Service Vehicle RPO Code.	Comm
			1ST ¹
9N5 (SEO)		Console delete (MSRP = -\$825.00 Credit) , deletes the floor console that is included with bucket seats. deletes the floor console and associated audio equipment that is included with bucket seats. 1 - Requires (A95) Seats, front Custom Cloth reclining buckets, (UM7) Sound system, ETR AM/FM stereo includes seek-and-scan or (UB1) Sound system ETR AM/FM stereo with CD and cassette player or SEO (9R0) Sound system, AM/FM stereo with cassette.	A ¹
BG9		Floor covering , rubberized vinyl, Black 1 - Deletes (B37) Floor mats, color-keyed, vinyl front and 2nd row.	A ¹
6E2 (SEO)		Key common, complete special service vehicle fleet, (MSRP = \$25.00) , provides a single key with a specific code, that is common to the door locks and ignition of all the vehicles in the special service vehicle fleet. Key code is an alternate to SEO (6E8) Key common, complete special service vehicle fleet	A
6E8 (SEO)		Key common, complete special service vehicle fleet, (MSRP = \$25.00) , provides a single key with a specific code, that is common to the door locks and ignition of all the vehicles in the special service vehicle fleet. Key code is and alternate to SEO (6E2) Key common, complete special service vehicle fleet.	A
AMF		Keyless entry, Remote Fleet Package , programmable, includes 6 additional remotes	A
6N6		Locks , rear door inoperative	A
JF4		Pedals , power, adjustable 1 - Not available with (9L4) Power supply, 12 volt.	A ¹
9L4 (SEO)		Power supply 12 volt, (MSRP = \$168.00) provides a 12 volt direct power supply from the battery with two separate 30 amp fused circuits. Each circuit has a 30 amp mini-fuse for both positive and ground to protect electrical accessories. Main supply lead has a 40 amp maxi-fuse. All fuses serviceable. Provides either direct battery power or operation through the ignition system. Hook-up wire is provided under the passenger side glove box. Operational amperage is 21 amps each circuit; 28 amps total. 1 - Requires (9N5) Console delete when (A95) Seats, front reclining buckets is ordered. Not available with (JF4) Pedals, power adjustable.	A ¹
5G4 (SEO)		Provision for Cab Roof-Mounted Lamp, (MSRP = \$103.00) , instrument panel mounted switch and wiring to the roof of the cab over the driver area for body upfitter to install and connect a cab roof mounted warning or emergency lamp. 21 Amp nominal rating. Circuit access instructions are furnished	A
A95		Seats , front Custom Cloth reclining buckets, includes adjustable head restraints, inboard armrests, 6-way power adjustable driver seat, floor console and rear storage pockets	A
5T5 (SEO)		Seats, 2nd row vinyl with front cloth, (MSRP = -\$30.00 Credit) provides cloth front seats with power driver-side but retains standard vinyl trim on 2nd row seats 1 - Requires interior trim code (92D). Requires (AE7) Seats, front Custom Cloth 40/20/40 split-bench or (A95) front Custom Cloth reclining buckets.	A ¹
VPV		Ship Thru , required for post plant assembly and 2nd stage optional content. Dealer "invoice only" charge for transportation costs to move vehicle from plant to 2nd stage activity and return vehicle to plant.	A
9R0 (SEO)		Sound system, AM/FM stereo with cassette, (MSRP = \$150.00) fleet option. AM/FM radio with cassette and digital clock 1 - Requires (9N5) Console, delete when (A95) Seats, front reclining buckets is ordered.	A ¹

2006 Chevrolet Truck Tahoe Special Service Vehicle EQUIPMENT GROUPS

ADDITIONAL OPTIONS			
Free Flow RPO Code	Ref. Only RPO Code	Description	Comm
		1 - Requires a fleet or government sales order type. Equipment group 1ST available on CK15706 Model. Note: Must specify (5W4) Identifier, Special Service Vehicle RPO Code.	1ST ¹
UB0		NEW! Sound system , ETR AM/FM stereo with CD player, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume and Radio Data System (RDS)	A
6N5 (SEO)		Switches , rear window inoperative (rear windows can only operate from driver's position)	A
BVE		Assist steps , Black, mounted between front and rear wheels	A
ANJ		Glass , non-deep tinted	A
7B7 (SEO)		Grille, painted, (MSRP = -\$8.00 Credit) provides an austere argent pick-up truck type grille, replacing the base chrome grille.	A
UT7		Ground studs , auxiliary, 2 per vehicle, rear compartment	A
6B2		Handles , rear door inoperative (doors can only be opened from outside)	A
9G8 (SEO)		Headlamps, daytime running lamps and automatic headlamp control delete, (MSRP = No Charge) , deletes standard daytime running lamps and automatic headlamp control features from the vehicle for police stealth surveillance.	A
8X1 (SEO)		Label, fasten safety belts (MSRP = \$2.00) , "Fasten Safety Belts" reminder label on side door window glass	A
DPN		Mirrors , outside rearview, power adjustable, heated, manual folding and extending, includes turn signal indicators	A
9R4 (SEO)		Molding, body side delete (MSRP = -\$80.00 Credit) , fleet option. Deletes the body side molding forced on by LS Decor.	A
9V9 (SEO)		Paints, solid (MSRP = No Charge) , Doeskin Tan 1 - Requires SEO (TGK) Special Paint, one color.	A ¹
9W4 (SEO)		Paints, solid (MSRP = No Charge) , Tangier Orange 1 - Requires SEO (TGK) Special Paint, one color.	A ¹
9W3 (SEO)		Paints, solid (MSRP = No Charge) , Wheatland Yellow 1 - Requires SEO (TGK) Special Paint, one color.	A ¹
9V5 (SEO)		Paints, solid (MSRP = No Charge) , Woodland Green 1 - Requires SEO (TGK) Special Paint, one color.	A ¹
UN9		Radio suppression , braided brass straps attaching to various body locations	A
7X6 (SEO)		Spotlamp , left-hand	A
7X7 (SEO)		Spotlamps , left- and right-hand	A
QBN		Tires , LT245/75R16C, on-/off-road, blackwall 1 - Requires SEO (9G3) Suspension Package, off-road or (ZQ1) Suspension Package, Smooth Ride.	A ¹
PF9		Wheels , 4 - 16" x 7" (40.6 cm x 17.8 cm) 6-lug cast aluminum, includes steel spare	A
K47		Air cleaner , high-capacity 1 - Included with (Z82) Trailing equipment, heavy-duty.	A ¹

2006 Chevrolet Truck Tahoe Special Service Vehicle EQUIPMENT GROUPS

ADDITIONAL OPTIONS			
Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Requires a fleet or government sales order type. Equipment group 1ST available on CK15706 Model. Note: Must specify (5W4) Identifier, Special Service Vehicle RPO Code.	Comm
			1ST ¹
7Y9 (SEO)		Battery, single 770 CCA (MSRP = \$56.00) , provides a 770 CCA HD cranking battery in lieu of standard 1 - Not available with (8Y9) Batteries, dual 770 CCA.	A ¹
8Y9 (SEO)		Battery, dual 770 CCA (MSRP = \$112.00) , provides dual batteries powering the starter. Each battery is 770 CCA.	A
KNP		Cooling , external transmission oil cooler, auxiliary, heavy-duty air-to-oil 1 - Included with (Z82) Trailering equipment, heavy-duty.	A ¹
G80		Differential , locking, heavy-duty, rear	A
FE9		Emissions , Federal requirements	A
YF5		Emissions , California state requirements	A
NE1		Emissions , Maine, Massachusetts, New York or Vermont state requirements	A
K05		Engine block heater	A
GT5		Rear axle , 4.10 ratio 1 - Requires (G80) Differential, locking, heavy-duty, rear.	A ¹
NZZ		Skid Plate Package , includes aluminum front underbody shield starting behind front bumper and running to 1st cross-member, protecting front underbody, oil pan, differential case and transfer case, frame-mounted shields	A
9G3 (SEO)		Suspension Package, off-road for commercial 4x4 vehicles (MSRP = \$395.00) , includes (Z71) Suspension Package, Off-Road vehicle suspension components, skid plate package and high capacity air cleaner. Does not include Z71 decals. 1 - Requires (QBN) Tires, LT245/75R16C, on/off-road, blackwall.	A ¹
Z82		Trailering equipment , heavy-duty, includes trailering hitch platform, 7-lead wiring connector, auxiliary transmission oil cooler and trailer brake pre-wire harness	A

**2006 Chevrolet Truck Tahoe Special PEG STAIRSTEP
Service Vehicle**

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 - Requires a fleet or government sales order type. Equipment group 1ST available on CK15706 Model. Note: Must specify (5W4) Identifier, Special Service Vehicle RPO Code.	Comm
			1ST ¹
	B30	Floor covering, color-keyed carpeting 1 - Substitutable to (BG9) Floor covering, rubberized vinyl.	□ ¹
	C7K	GVWR, 6500 lbs. (2948 kg)	■
	5W4 (SEO)	Identifier, Special Service Vehicle, (MSRP = No charge),	■
	D31	Mirror, inside rearview	■
	GU6	Rear axle, 3.42 ratio 1 - Upgradeable to (GT5) Rear axle, 4.10 ratio.	□ ¹
	AE7	Seats, front Custom Cloth 40/20/40 split-bench 1 - Upgradeable to (A95) Seats, front Custom Cloth reclining buckets.	□ ¹
	UM7	Sound system, ETR AM/FM stereo includes seek-and-scan, digital clock 1 - Requires (AE7) Seats, front 40/20/40 split-bench or (9N5) Console, delete. Upgradeable to (UB0) Sound system, ETR AM/FM stereo with CD player.	□ ¹
	QNL	Tires, P245/75R16, all-season, White outlined-letter 1 - Upgradeable to (QBN) Tires, LT245/75R16C, on/off-road, blackwall.	□ ¹
	QB5	Wheels, 4 - 16" X 6.5" (40.6 cm x 16.5 cm) steel disc 1 - Upgradeable to (PF9) Wheels, 4 - 16" x 7" (40.6 cm x 17.8 cm) 6-lug cast aluminum.	□ ¹

2006 Chevrolet Truck Tahoe Special INTERIOR
Service Vehicle

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 - Requires a fleet or government sales order type. Equipment group 1ST available on CK15706 Model. Note: Must specify (5W4) Identifier, Special Service Vehicle RPO Code.	Comm
			1ST ¹
		Air bags , frontal, dual-stage, driver and right front passenger, includes Passenger Sensing System (front passenger air bag status on inside rearview mirror) 1 - 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
AJ7		Air bags , side-impact, driver and right front passenger 1 - Not available with vinyl front seats. 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
	CJ3	Air conditioning , tri-zone, manual, individual climate settings for driver, right front passenger and rear passengers, includes front controls	S
		Assist handles , front passenger and outboard 2nd row seats	S
PDC		Cargo Package , includes (RYJ) Cargo shade, (AP9) Cargo net, (B39) Cargo mat and (V1K) Luggage rack center rails. When (AS3) Seats, rear 3rd row 50/50 split-bench is ordered, package does not include (RYJ) Cargo shade or (B39) Cargo mat	A
	B39	Cargo mat 1 - Included and only available with (PDC) Cargo Package.	A ¹
	AP9	Cargo net 1 - Included and only available with (PDC) Cargo Package.	A ¹
	RYJ	Cargo shade 1 - Included and only available with (PDC) Cargo Package.	A ¹
	D07	Console , floor, includes storage area, map pocket, cupholders and integrated 2nd row audio controls 1 - Included and only available when (A95) Seats, front Custom Cloth reclining buckets is ordered.	A ¹
9N5 (SEO)		Console delete (MSRP = -\$825.00 Credit) , deletes the floor console that is included with bucket seats. deletes the floor console and associated audio equipment that is included with bucket seats. 1 - Requires (A95) Seats, front Custom Cloth reclining buckets, (UM7) Sound system, ETR AM/FM stereo includes seek-and-scan or (UB1) Sound system ETR AM/FM stereo with CD and cassette player or SEO (9R0) Sound system, AM/FM stereo with cassette.	A ¹
		Console , overhead mini includes map lights and rear seat HVAC controls	S
	K34	Cruise control , electronic with set and resume speed, includes telltale in instrument panel cluster	S
	C49	Defogger , rear-window, electric	S
	AU3	Door locks , power programmable, includes lockout protection	S
		Driver Information Center , monitors numerous systems	S
	B30	Floor covering , color-keyed carpeting 1 - Substitutable to (BG9) Floor covering, rubberized vinyl.	□ ¹
BG9		Floor covering , rubberized vinyl, Black 1 - Deletes (B37) Floor mats, color-keyed, vinyl front and 2nd row.	A ¹

**2006 Chevrolet Truck Tahoe Special INTERIOR
Service Vehicle**

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Requires a fleet or government sales order type. Equipment group 1ST available on CK15706 Model. Note: Must specify (5W4) Identifier, Special Service Vehicle RPO Code.	Comm
			1ST ¹
	B37	NEW! Floormats , color-keyed, vinyl front and 2nd row, removable 1 - Deleted when (BG9) Floor covering, rubberized vinyl is ordered.	S ¹
		Headliner , cloth	S
	5W4 (SEO)	Identifier, Special Service Vehicle, (MSRP = No charge) , utilized to identify a vehicle as a police/fire special service vehicle for marketing, order-build process and certification purposes 1 - Must be specified.	■ ¹
		Instrumentation , analog, includes speedometer, odometer with trip odometer, fuel level, voltmeter, engine temperature, oil pressure and tachometer	S
		Key , single, 2-sided	S
6E2 (SEO)		Key common, complete special service vehicle fleet, (MSRP = \$25.00) , provides a single key with a specific code, that is common to the door locks and ignition of all the vehicles in the special service vehicle fleet. Key code is an alternate to SEO (6E8) Key common, complete special service vehicle fleet	A
6E8 (SEO)		Key common, complete special service vehicle fleet, (MSRP = \$25.00) , provides a single key with a specific code, that is common to the door locks and ignition of all the vehicles in the special service vehicle fleet. Key code is and alternate to SEO (6E2) Key common, complete special service vehicle fleet.	A
	AU0	Keyless entry , remote, includes 2 transmitters, panic button and content theft alarm	S
AMF		Keyless entry, Remote Fleet Package , programmable, includes 6 additional remotes	A
		Lighting , dome lamp, driver and passenger side door switch with delayed entry feature, cargo lamps, map lights in front and 2nd seat positions	S
6N6		Locks , rear door inoperative	A
	D31	Mirror , inside rearview, manual day/night	■
JF4		Pedals , power, adjustable 1 - Not available with (9L4) Power supply, 12 volt.	A ¹
		Power outlets , auxiliary, 2 on instrument panel, 1 in cargo area, 12-volt	S
9L4 (SEO)		Power supply 12 volt, (MSRP = \$168.00) provides a 12 volt direct power supply from the battery with two separate 30 amp fused circuits. Each circuit has a 30 amp mini-fuse for both positive and ground to protect electrical accessories. Main supply lead has a 40 amp maxi-fuse. All fuses serviceable. Provides either direct battery power or operation through the ignition system. Hook-up wire is provided under the passenger side glove box. Operational amperage is 21 amps each circuit; 28 amps total. 1 - Requires (9N5) Console delete when (A95) Seats, front reclining buckets is ordered. Not available with (JF4) Pedals, power adjustable.	A ¹
5G4 (SEO)		Provision for Cab Roof-Mounted Lamp, (MSRP = \$103.00) , instrument panel mounted switch and wiring to the roof of the cab over the driver area for body upfitter to install and connect a cab roof mounted warning or emergency lamp. 21 Amp nominal rating. Circuit access instructions are furnished	A
		Safety belts , 3-point, driver and front passenger, in all seating positions except center seating position in 1st and 3rd row which are lap only	S
		LATCH system , (Lower Anchors and Top tethers for CHildren), for child safety seats	S

2006 Chevrolet Truck Tahoe Special INTERIOR
Service Vehicle

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Requires a fleet or government sales order type. Equipment group 1ST available on CK15706 Model. Note: Must specify (5W4) Identifier, Special Service Vehicle RPO Code.	Comm
			1ST ¹
	AE7	Seats, front Custom Cloth 40/20/40 split-bench, 3-passenger, driver and passenger manual reclining, outboard head restraints, center fold-down storage armrest, 6-way power adjustable driver seat and rear storage pockets 1 - Upgradeable to (A95) Seats, front Custom Cloth reclining buckets.	□ ¹
A95		Seats, front Custom Cloth reclining buckets, includes adjustable head restraints, inboard armrests, 6-way power adjustable driver seat, floor console and rear storage pockets	A
5T5 (SEO)		Seats, 2nd row vinyl with front cloth, (MSRP = -\$30.00 Credit) provides cloth front seats with power driver-side but retains standard vinyl trim on 2nd row seats 1 - Requires interior trim code (92D). Requires (AE7) Seats, front Custom Cloth 40/20/40 split-bench or (A95) front Custom Cloth reclining buckets.	A ¹
	AT5	Seats, middle Custom Cloth 60/40 split-folding bench, 3-passenger with center armrest	S
VPV		Ship Thru , required for post plant assembly and 2nd stage optional content. Dealer "invoice only" charge for transportation costs to move vehicle from plant to 2nd stage activity and return vehicle to plant.	A
	UM7	Sound system, ETR AM/FM stereo includes seek-and-scan, digital clock 1 - Requires (AE7) Seats, front 40/20/40 split-bench or (9N5) Console, delete. Upgradeable to (UB0) Sound system, ETR AM/FM stereo with CD player.	□ ¹
9R0 (SEO)		Sound system, AM/FM stereo with cassette, (MSRP = \$150.00) fleet option. AM/FM radio with cassette and digital clock 1 - Requires (9N5) Console, delete when (A95) Seats, front reclining buckets is ordered.	A ¹
UB0		NEW! Sound system, ETR AM/FM stereo with CD player, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume and Radio Data System (RDS)	A
	UQ3	Sound system feature, 8-speakers	S
		Steering column, Tilt-Wheel, adjustable, includes brake/transmission shift interlock	S
	NK5	Steering wheel, steel sleeve, includes theft-deterrent locking feature	S
6N5 (SEO)		Switches, rear window inoperative (rear windows can only operate from driver's position)	A
		Theft-deterrent system, PASSlock II	S
	UJ6	Tire pressure monitoring system (does not apply to spare tire)	S
	DH6	Visors, padded, driver and passenger side with cloth trim, extenders, illuminated vanity mirrors and corner storage pockets on back of visors	S
		Warning tones, headlamp on, key-in-ignition, driver and right front passenger safety belt unfasten, turn signal on	S
	A31	Windows, power, includes driver express-down and lockout features	S

2006 Chevrolet Truck Tahoe Special EXTERIOR
Service Vehicle

S = Standard Equipment A = Available -- (dashes) = Not Available

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Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Requires a fleet or government sales order type. Equipment group 1ST available on CK15706 Model. Note: Must specify (5W4) Identifier, Special Service Vehicle RPO Code.	Comm
			1ST ¹
		Air dam, Gray	S
BVE		Assist steps, Black, mounted between front and rear wheels	A
	E52	Body, liftgate with liftglass, rear door system, includes rear-window wiper/washer	S
	VG3	Bumper, front, chrome	S
	VB3	Bumper, rear, chrome step, includes pad	S
		Daytime running lamps, includes automatic exterior lamp control	S
		Door handles, Matte Black	S
	AJ1	Glass, Solar-Ray deep tinted (all windows except light tinted glass on windshield, driver and front passenger) 1 - Substitutable to (ANJ) Glass, non-deep tinted.	S ¹
ANJ		Glass, non-deep tinted	A
	V22	Grille, chrome surround	S
7B7 (SEO)		Grille, painted, (MSRP = -\$8.00 Credit) provides an austere argent pick-up truck type grille, replacing the base chrome grille.	A
UT7		Ground studs, auxiliary, 2 per vehicle, rear compartment	A
6B2		Handles, rear door inoperative (doors can only be opened from outside)	A
		Headlamps, dual halogen composite, includes flash-to-pass feature and automatic lamp control	S
9G8 (SEO)		Headlamps, daytime running lamps and automatic headlamp control delete, (MSRP = No Charge), deletes standard daytime running lamps and automatic headlamp control features from the vehicle for police stealth surveillance.	A
8X1 (SEO)		Label, fasten safety belts (MSRP = \$2.00), "Fasten Safety Belts" reminder label on side door window glass	A
	V54	Luggage rack, roof-mounted, Black, side rails only 1 - Center rails available in (PDC) Cargo Package.	S ¹
	V1K	Luggage rack center rails 1 - Included and only available with (PDC) Cargo Package.	A ¹
	DL8	Mirrors, outside rearview, foldaway, power adjustable, heated	S
DPN		Mirrors, outside rearview, power adjustable, heated, manual folding and extending, includes turn signal indicators	A
	B85	Moldings, bodyside	S
9R4 (SEO)		Molding, body side delete (MSRP = -\$80.00 Credit), fleet option. Deletes the body side molding forced on by LS Decor.	A

**2006 Chevrolet Truck Tahoe Special EXTERIOR
Service Vehicle**

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Requires a fleet or government sales order type. Equipment group 1ST available on CK15706 Model. Note: Must specify (5W4) Identifier, Special Service Vehicle RPO Code.	Comm
			1ST ¹
9V9 (SEO)		Paints, solid (MSRP = No Charge), Doeskin Tan 1 - Requires SEO (TGK) Special Paint, one color.	A ¹
9W4 (SEO)		Paints, solid (MSRP = No Charge), Tangier Orange 1 - Requires SEO (TGK) Special Paint, one color.	A ¹
9W3 (SEO)		Paints, solid (MSRP = No Charge), Wheatland Yellow 1 - Requires SEO (TGK) Special Paint, one color.	A ¹
9V5 (SEO)		Paints, solid (MSRP = No Charge), Woodland Green 1 - Requires SEO (TGK) Special Paint, one color.	A ¹
UN9		Radio suppression , braided brass straps attaching to various body locations	A
	V76	Recovery hooks , front, frame-mounted	S
7X6 (SEO)		Spotlamp , left-hand	A
7X7 (SEO)		Spotlamps , left- and right-hand	A
	SAF	Tire carrier , lockable, outside spare, winch-type mounted under frame at rear	S
		Tire , spare, full-size, 16" (40.6 cm) steel wheel located at rear underbody of vehicle, blackwall	S
	QNL	Tires , P245/75R16, all-season, White outlined-letter 1 - Upgradeable to (QBN) Tires, LT245/75R16C, on/off-road, blackwall.	□ ¹
QBN		Tires , LT245/75R16C, on-/off-road, blackwall 1 - Requires SEO (9G3) Suspension Package, off-road or (ZQ1) Suspension Package, Smooth Ride.	A ¹
	QB5	Wheels , 4 - 16" X 6.5" (40.6 cm x 16.5 cm) steel disc 1 - Upgradeable to (PF9) Wheels, 4 - 16" x 7" (40.6 cm x 17.8 cm) 6-lug cast aluminum.	□ ¹
PF9		Wheels , 4 - 16" x 7" (40.6 cm x 17.8 cm) 6-lug cast aluminum, includes steel spare	A
		Wipers , intermittent, front wet-arm with pulse washers	S

**2006 Chevrolet Truck Tahoe Special MECHANICAL
Service Vehicle**

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 - Requires a fleet or government sales order type. Equipment group 1ST available on CK15706 Model. Note: Must specify (5W4) Identifier, Special Service Vehicle RPO Code.	Comm
			1ST ¹
K47		Air cleaner, high-capacity 1 - Included with (Z82) Trailering equipment, heavy-duty.	A ¹
	KW1	Alternator, 160 amps	S
		Battery, heavy-duty, 600 cold-cranking amps, includes rundown protection and retained accessory power 1 - Upgradeable to (7Y9) Battery, single 770 CCA.	S ¹
7Y9 (SEO)		Battery, single 770 CCA (MSRP = \$56.00), provides a 770 CCA HD cranking battery in lieu of standard 1 - Not available with (8Y9) Batteries, dual 770 CCA.	A ¹
8Y9 (SEO)		Battery, dual 770 CCA (MSRP = \$112.00), provides dual batteries powering the starter. Each battery is 770 CCA.	A
		Brakes, 4-wheel antilock, 4-wheel disc, hydroboost	S
KNP		Cooling, external transmission oil cooler, auxiliary, heavy-duty air-to-oil 1 - Included with (Z82) Trailering equipment, heavy-duty.	A ¹
G80		Differential, locking, heavy-duty, rear	A
FE9		Emissions, Federal requirements	A
YF5		Emissions, California state requirements	A
NE1		Emissions, Maine, Massachusetts, New York or Vermont state requirements	A
	L59	Engine, Vortec 5300 V8 SFI Flex-Fuel capable of running on unleaded or up to 85% ethanol (295 HP [219.7 kW] @ 5200 rpm, 335 lb.-ft. [452.3 N-m] @ 4000 rpm)	S
K05		Engine block heater	A
	C7K	GVWR, 6500 lbs. (2948 kg)	■
	GU6	Rear axle, 3.42 ratio 1 - Upgradeable to (GT5) Rear axle, 4.10 ratio.	□ ¹
GT5		Rear axle, 4.10 ratio 1 - Requires (G80) Differential, locking, heavy-duty, rear.	A ¹
NZZ		Skid Plate Package, includes aluminum front underbody shield starting behind front bumper and running to 1st cross-member, protecting front underbody, oil pan, differential case and transfer case, frame-mounted shields	A
		Steering, power	S
		Suspension, front, independent torsion bar, and stabilizer bar	S
		Suspension, rear, multi-link with coil springs	S
	ZQ1	Suspension Package, Smooth Ride	S

**2006 Chevrolet Truck Tahoe Special MECHANICAL
Service Vehicle**

Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Requires a fleet or government sales order type. Equipment group 1ST available on CK15706 Model. Note: Must specify (5W4) Identifier, Special Service Vehicle RPO Code.	Comm
			1ST ¹
9G3 (SEO)		Suspension Package, off-road for commercial 4x4 vehicles (MSRP = \$395.00) , includes (Z71) Suspension Package, Off-Road vehicle suspension components, skid plate package and high capacity air cleaner. Does not include Z71 decals. 1 - Requires (QBN) Tires, LT245/75R16C, on/off-road, blackwall.	A ¹
Z82		Trailer equipment , heavy-duty, includes trailering hitch platform, 7-lead wiring connector, auxiliary transmission oil cooler and trailer brake pre-wire harness	A
		Trailer wiring harness , 7-wire	S
	NP8	Transfer case , electronic Autotrac, includes push-button controls	S
	M30	Transmission , 4-speed automatic, electronically controlled with overdrive and tow/haul mode	S

**2006 Chevrolet Truck Tahoe Special
Service Vehicle**

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	GU6 3.42	GT5 4.10	C7K 6500 (2948)
CK15706	L59 Vortec 5300 V8 SFI	S	S	A	S

**2006 Chevrolet Truck Tahoe Special
Service Vehicle**

COLOR AND TRIM - SOLID PAINT ZY1

<p>S = Standard Equipment A = Available -- (dashes) = Not Available ■ = Included in Equipment Group □ = Included in Equipment Group but upgradeable</p> <p>*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.</p>				
Decor Level	Seat Type	Seat Code	Seat Trim	Interior
				Gray/ Dark Charcoal ¹
Commercial	Front 40/20/40 reclining split-bench	AE7	Custom Cloth	92D
Commercial	Front high-back reclining bucket	A95	Custom Cloth	92D

Exterior Solid Paint	Color Code	Touch Up Paint Number	Interior
			Gray/ Dark Charcoal ¹
Dark Blue Metallic ²	25U	WA-722J	A
Bermuda Blue Metallic ³	26U	WA-214M	A
Black ²	41U	WA-8555	A
Summit White ²	50U	WA-8624	A
Silver Birch Metallic	59U	WA-926L	A
Dark Gray Metallic ²	62U	WA-805K	A
Sport Red Metallic ²	63U	WA-817K	A
<p>1 - Interior color has lighter/darker two-tone effect. 2 - Bodyside molding, front bumper pad and door handles are Matte Black. 3 - Available at extra charge.</p>			

**2006 Chevrolet Truck Tahoe Special
Service Vehicle**

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.

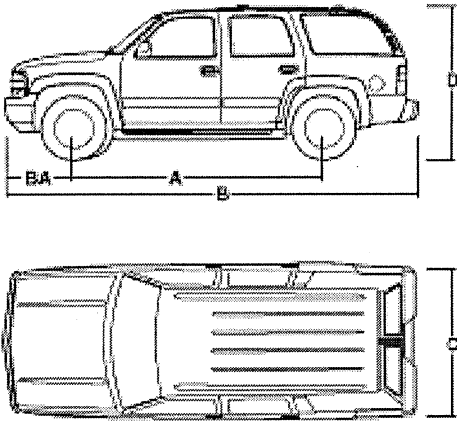
Decor Level	Seat Type	Seat Code	Seat Trim	Interior	
				Tan/ Neutral ¹	Gray/ Dark Charcoal ¹
Commercial	Front 40/20/40 reclining split-bench	AE7	Vinyl	--	92V
Commercial	Front 40/20/40 reclining split-bench	AE7	Custom Cloth	52D	92D
Commercial	Front high-back reclining bucket	A95	Custom Cloth	52D	92D
Commercial	Front 40/20/40 reclining split-bench with 20 section removed	9S1	Vinyl	--	92V

Exterior Solid Paint	Color Code	Touch Up Paint Number	Interior	
			Tan/ Neutral ¹	Gray/ Dark Charcoal ¹
NEW! Blue	none	WA-5665	A	A
Green	none	WA-7941	A	A
Green, Woodland	9V5	WA-9015	A	A
Victory Red	none	WA-9260	A	A
Doeskin Tan	9V9	WA-9403	A	A
Yellow	none	WA-9414	A	A
Tangier Orange	9W4	WA-9417	A	A
Wheatland Yellow	9W3	WA-253A	A	A
NEW! Dark Toreador Red	none	WA-334D	A	A
Indigo Blue	none	WA-9792	A	A

All wheel flares, OSRV mirror backs and door handles are Black

1 - Interior color has lighter/darker two-tone effect.

All dimensions in inches (mm) unless otherwise stated.

Specifications		CK15706 4-Wheel Drive
	A Wheelbase	116.00 (2946)
	B Overall length	198.80 (5050)
	C Body width	78.80 (2002)
	D Overall height	76.70 (1948)
	Overall height, without luggage rack	74.10 (1882)
	Head room, front	40.70 (1034)
	Head room, center	39.40 (1001)
	Head room, rear	37.40 (950)
	Shoulder room, front	65.20 (1656)
	Shoulder room, center	65.10 (1654)
	Shoulder room, rear	64.40 (1636)
	Hip room, front	61.40 (1560)
	Hip room, center	61.30 (1557)
	Hip room, rear	49.20 (1250)
	Leg room, front	41.30 (1049)
	Leg room, center	38.60 (980)
	Leg room, rear	27.30 (693)
	BA Front bumper to axle	37.00 (940)
	Inside width, at floor	59.80 (1519)
	Ground to top of rear load floor	31.50 (800)
	Load floor length, to front seat, at floor	84.20 (2139)
	Load floor length, to center	49.80

**2006 Chevrolet Truck Tahoe Special
Service Vehicle**

DIMENSIONS

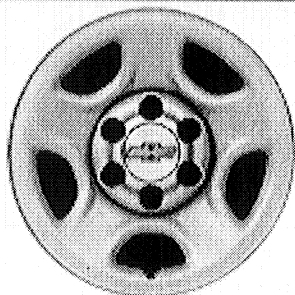
All dimensions in inches (mm) unless otherwise stated.

	Specifications	CK15706 4-Wheel Drive
	seat, at floor	(1265)
	Load floor length , to rear seat, at floor	13.80 (351)
	Inside width , between wheelhousing	49.10 (1247)
	Cargo area height	41.50 (1054)
	Ground clearance , front	9.80 (249)
	Ground clearance , rear	8.40 (213)

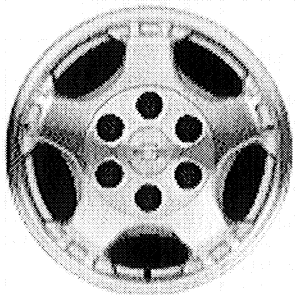
Published dimensions indicated are without optional equipment or accessories. Additional accessories or equipment ordered at the customer's request can result in a minor change in these dimensions.

2006 Chevrolet Truck Tahoe Special Service Vehicle **SPECS**


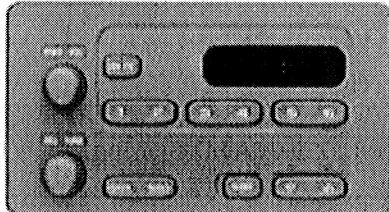
	CK15706 4-Wheel Drive
Specifications	
Front shock absorber diameter, in. (mm)	1.81 (46)
Front stabilizer bar diameter, in. (mm)	1.26 (32)
Rear shock absorber diameter, in. (mm)	1.81 (46)
Rear stabilizer bar diameter, in. (mm)	1.10 (28)
Turning diameter, curb-to-curb, ft. (m)	38.3 (11.7)
Capacities	
Front axle, lbs. (kg)	3925 (1780)
Front spring capacity, lbs. (kg)	3600 (1633)
Rear axle, lbs. (kg)	4000 (1814)
Rear spring capacity, lbs. (kg)	3750 (1701)
Curb weight, lbs. (kg)	5210 (2363)
Cargo volume, cu. ft. (liters)	104.6 (2962.3)
Payload ¹ , lbs. (kg)	1590 (721)
Gross Vehicle Weight Rating (GVWR), lbs. (kg)	6800 (3084)
Front Gross Axle Weight Rating (GAWR), lbs. (kg)	3600 (1633)
Rear Gross Axle Weight Rating (GAWR), lbs. (kg)	3750 (1701)
Fuel capacity, approximate, gallon (liters)	26 (98)
Seating capacity (front/center/rear)	3/3/3
1. Maximum payload capacity includes weight of driver, passengers, optional equipment and cargo.	



QB5
Wheels, 4 - 16" X 6.5" (40.6 cm x 16.5 cm) steel disc



PF9
Wheels, 4 - 16" x 7" (40.6 cm x 17.8 cm) 6-lug cast aluminum,
includes steel spare

	<p>UB0 Sound system, ETR AM/FM stereo with CD player, includes seek-and-scan, digital clock, auto-tone control, speed-compensated volume and Radio Data System (RDS)</p>
	<p>UM7 Sound system, ETR AM/FM stereo includes seek-and-scan, digital clock</p>

2006 Chevrolet Truck Tahoe Special
Service Vehicle

RPO CODES

Option Code	Description
5G4 (SEO)	Provision for Cab Roof-Mounted Lamp, (MSRP = \$103.00),
5T5 (SEO)	Seats, 2nd row vinyl with front cloth, (MSRP = -\$30.00 Credit)
6B2	Handles, rear door inoperative
6E2 (SEO)	Key common, complete special service vehicle fleet, (MSRP = \$25.00),
6E8 (SEO)	Key common, complete special service vehicle fleet, (MSRP = \$25.00),
6N5 (SEO)	Switches, rear window inoperative
6N6	Locks, rear door inoperative
7B7 (SEO)	Grille, painted, (MSRP = -\$8.00 Credit)
7X6 (SEO)	Spotlamp, left-hand
7X7 (SEO)	Spotlamps, left- and right-hand
7Y9	Battery, Single 770 CCA (MSRP = \$56.00)
7Y9 (SEO)	Battery, single 770 CCA (MSRP = \$56.00), provides a 770 CCA HD cranking battery in lieu of standard
8T7 (SEO)	Half shaft boot for 4x4 (MSRP = \$150.00)
8X1	Label, fasten safety belts (MSRP = \$2.00)
8X1 (SEO)	Label, fasten safety belts (MSRP = \$2.00), "Fasten Safety Belts" reminder label on side door window glass
8Y9 (SEO)	Battery, dual 770 CCA (MSRP = \$112.00), provides dual batteries powering the starter. Each battery is 770 CCA.
9G3 (SEO)	Suspension Package, off-road for commercial 4x4 vehicles (MSRP = \$395.00), includes (Z71) Suspension Package, Off-Road vehicle suspension components, skid plate package and high capacity air cleaner. Does not include Z71 decals.
9G8 (SEO)	Headlamps, daytime running lamps and automatic headlamp control delete, (MSRP = No Charge), deletes standard daytime running lamps and automatic headlamp control features from the vehicle for police stealth surveillance.
9L4 (SEO)	Power supply 12 volt, (MSRP = \$168.00)
9N5 (SEO)	Console delete (MSRP = -\$825.00 Credit)
9N5 (SEO)	Console delete (MSRP = -\$825.00 Credit), deletes the floor console that is included with bucket seats.
9R0 (SEO)	Sound system, AM/FM stereo with cassette, (MSRP = \$150.00)
9R4 (SEO)	Molding, body side delete (MSRP = -\$80.00 Credit), fleet option.
9V5 (SEO)	Paints, solid (MSRP = No Charge), Woodland Green
9V9 (SEO)	Paints, solid (MSRP = No Charge), Doeskin Tan
9W3 (SEO)	Paints, solid (MSRP = No Charge), Wheatland Yellow
9W4 (SEO)	Paints, solid (MSRP = No Charge), Tangier Orange
A31	Windows, power
A95	Seats, front Custom Cloth reclining buckets
AE7	Seats, front Custom Cloth 40/20/40 split-bench
AJ1	Glass, Solar-Ray deep tinted
AJ7	Air bags, side-impact, driver and right front passenger
AMF	Keyless entry, Remote Fleet Package, programmable,
ANJ	Glass, non-deep tinted
AP9	Cargo net
AT5	Seats, middle Custom Cloth 60/40 split-folding bench
AU0	Keyless entry, remote
AU3	Door locks, power programmable
B30	Floor covering, color-keyed carpeting
B37	Floormats
B39	Cargo mat
B85	Moldings, bodyside

Option Code	Description
BG9	Floor covering, rubberized vinyl, Black
BVE	Assist steps, Black
C49	Defogger, rear-window, electric
C7K	GVWR, 6500 lbs. (2948 kg)
CJ3	Air conditioning, tri-zone, manual
D07	Console, floor
D31	Mirror, inside rearview
DH6	Visors, padded
DL8	Mirrors, outside rearview, foldaway, power adjustable, heated
DPN	Mirrors, outside rearview, power adjustable, heated, manual folding and extending
E52	Body, liftgate with liftglass
FE9	Emissions, Federal requirements
G80	Differential, locking, heavy-duty, rear
GT5	Rear axle, 4.10 ratio
GU6	Rear axle, 3.42 ratio
JF4	Pedals, power, adjustable
K05	Engine block heater
K34	Cruise control
K47	Air cleaner, high-capacity
KNP	Cooling, external transmission oil cooler
KW1	Alternator, 160 amps
L59	Engine, Vortec 5300 V8 SFI Flex-Fuel
M30	Transmission, 4-speed automatic
NE1	Emissions, Maine, Massachusetts, New York or Vermont state requirements
NK5	Steering wheel, steel sleeve, includes theft-deterrent locking feature
NP8	Transfer case, electronic Autotrac
NZZ	Skid Plate Package
PDC	Cargo Package
PF9	Wheels, 4 - 16" x 7" (40.6 cm x 17.8 cm)
QB5	Wheels, 4 - 16" X 6.5" (40.6 cm x 16.5 cm) steel disc
QBN	Tires, LT245/75R16C, on/off-road, blackwall
QNL	Tires, P245/75R16, all-season, White outlined-letter
RYJ	Cargo shade
SAF	Tire carrier, lockable
UB0	Sound system, ETR AM/FM stereo with CD player
UJ6	Tire pressure monitoring system
UM7	Sound system, ETR AM/FM stereo includes seek-and-scan, digital clock
UN9	Radio suppression, braided brass straps attaching to various body locations
UQ3	Sound system feature, 8-speakers
UT7	Ground studs, auxiliary
V1K	Luggage rack center rails
V22	Grille, chrome surround
V54	Luggage rack, roof-mounted, Black
V76	Recovery hooks, front, frame-mounted
VB3	Bumper, rear, chrome step
VG3	Bumper, front, chrome
VPV	Ship Thru, required for post plant assembly and 2nd stage optional content. Dealer "invoice only" charge for transportation costs to move vehicle from plant to 2nd stage activity and return vehicle to plant.

2006 Chevrolet Truck Tahoe Special RPO CODES
Service Vehicle

Option Code	Description
YF5	Emissions, California state requirements
Z82	Trailer equipment, heavy-duty
ZQ1	Suspension Package, Smooth Ride

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 with Ball Hitch				
Model	(LR4) Vortec 4800 V8 SFI		(L59) Vortec 5300 V8 SFI Flexible Fuel	
	Axle Ratio	Maximum Trailer Weight lbs. (kg)	Axle Ratio	Maximum Trailer Weight lbs. (kg)
CK15706	3.42	6500 (2948)	3.42	7500 (3402)
	4.10	7500 (3402)	4.10	7700 (3493)

Trailering capacity may be limited by tow vehicle ability to carry trailer tongue weight.

Addition of trailer tongue weight cannot cause vehicle weights to exceed Rear Gross Axle Weight Rating (RGAWR) or Gross Vehicle Weight Rating (GVWR).

GCWR For Engine/Rear Axle Ratio Combination with Automatic Transmission			
Engine	(GCWR) Gross Combination Weight Ratings lbs. (kg)		
	12000 (5443)	13000 (5897)	14000 (6350)
(LR4) Vortec 4800 V8 SFI	3.42	4.10	
(L59) Vortec 5300 V8 SFI Flexible Fuel		3.42	4.10

