

Chevrolet



Uplander



2007

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Product Information

2007 Chevrolet Uplander Receives Standard 3.9L V-6 With Variable Valve Timing – E85 Version Coming

A crossover sport van for those who want it all, the Uplander delivers the bold styling of an SUV, the passenger room and interior versatility of a van, and the smooth ride of a sedan. For 2007, the Uplander is upgraded with the GM 3.9L V-6 with variable valve timing (VVT) as standard on all models. This powerful and refined V-6 delivers 240 horsepower (179 kW), 240 lb.-ft. (325 Nm) of torque* – a FlexFuel version capable of running on E85 ethanol will be available later in the model year.

Uplander is offered in regular- and extended-length body styles, and can seat up to seven passengers. The Uplander lineup continues in 2007 with front-wheel drive passenger models available in LS and LT trim, as well as a commercial-use cargo van. Passenger model equipment designations include 1LS, 1LT, 2LT and 3LT. Uplander 3LT models come standard with the segment-exclusive PhatNoise entertainment system; it includes a 40-gigabyte removable hard drive that can store music, movies, video games and more for playback in the vehicle. The system comes pre-loaded with TV shows from Nickelodeon, music from eMusic, audiobooks from Audible and video games from Capcom. Safety features for the '07 Uplander include dual-stage frontal air bags with GM's Passenger Sensing System and available side-impact air bags for the first- and second-row outboard seating positions.

Additional new and changed features for 2007 include:

- Four new exterior colors: Light Amethyst Metallic, Polar Blue Metallic, Gold Mist Metallic and Medium Brown Metallic (interim availability)
- New 17-inch aluminum wheel design
- New 17-inch five-spoke bright chrome-clad aluminum wheels
- The new colors replace Sandstone Metallic, Emerald Jewel Metallic and Amber Bronze Metallic. Also, all-wheel drive has been discontinued. StabiliTrak electronic stability control is standard on all passenger models.

Powertrain and chassis

The new 3.9L V-6 VVT is a sophisticated powerplant that uses premium-engine features, such as variable valve timing and active intake technology, to deliver optimal performance and economy. This larger-displacement engine also provides more usable power across the rpm range than the previous 3.5L V-6, with 90 percent of torque available from 1,800 rpm to 5,800 rpm. Later in the model year, a FlexFuel version of the engine that is capable of running on E85 ethanol fuel will be available for fleet applications.

E85 is a blend of 85 percent ethyl alcohol (ethanol) and 15 percent gasoline. It delivers similar performance as regular gasoline and is a renewable, domestically produced fuel made from the starch and sugar in agricultural products – primarily corn. E85 also burns cleaner than regular gasoline, which reduces greenhouse gas emissions. GM vehicles with E85 capability can run on 100 percent gasoline or on E85 or any combination of the two. GM is a leader in advancing E85 technology and use. Nearly 2 million GM vehicles on the road already are E85-capable.

Uplander's powertrain works in concert with the chassis to deliver a more carlike driving experience. The front suspension features an independent design with MacPherson struts and a stabilizer bar, while the rear suspension uses aluminum short and long (SLA) control arms, along with automatic load-leveling shock absorbers. The load-leveling rear suspension enhances stability, particularly when cornering over rough pavement. A standard four-wheel anti-lock disc brake system, 17-inch wheels and tires and a rigid chassis structure also contribute to Uplander's smooth and precise driving characteristics.

Uplander also features StabiliTrak, GM's advanced electronic stability control system, as standard equipment on all extended-length passenger models; it is available on regular length models. It 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. StabiliTrak is integrated with the traction control and standard ABS brake systems.

Convenience and entertainment systems

Uplander has as a long list of standard comfort and convenience features, including air conditioning, power windows and power door locks, tilt-adjustable steering column, and an AM/FM stereo with CD and MP3 player. Uplander also offers a DVD player with flip-down screen, integrated controls and the "tri-mode" feature, which allows passengers to listen to as many as three separate entertainment sources simultaneously – DVD, CD and radio – through the speakers and dual-channel wireless headphones.

Uplander's range of available in-vehicle entertainment choices also includes available XM Satellite Radio and the ultimate in-vehicle entertainment systems, Mobile Digital Media System powered by PhatNoise. Standard on Uplander 3LT, the segment-exclusive Mobile Digital Media Powered by PhatNoise system is a wallet-sized, 40-gigabyte hard drive cartridge that installs in the Uplander's overhead rail system and provides an unprecedented level of capabilities and media storage. Some of its capabilities include:

- Storing and playing back up to 10,000 songs in MP3, WMA or WAV formats
- Storing and playing up to 40 movies in MPEG format (standard format for movies)
- Storing and playing a combination of songs and movies
- The ability to provide the software for playing classic video games
- A voice-browsing interface – if the driver wants to listen to music, the system tells him or her over the radio speakers the song's name, allowing the driver to navigate through a list of stored music using steering wheel buttons
- Listening to books, magazine or newspaper articles recorded on a PC
- Allowing simultaneous listening to two entertainment sources
- Transferring digital camera pictures through a USB port in the PhatNoise cartridge and playing them back on the DVD screen

The PhatNoise system's hard drive cartridge is easily removable, so it can be connected to a home PC or laptop to download computer files for playback in the Uplander, giving passengers an unprecedented level of entertainment customization.

Uplander cargo capability

Innovative and clever storage solutions are found throughout Uplander, starting with the innovative overhead rail system, which integrates into a single unit lighting and rear HVAC/audio controls along with features such as a standard rear-seat entertainment/DVD system. Snap-in storage and accessory modules are available to store smaller personal items, such as sunglasses, CDs or cellular phones. Second-row captain's chairs are standard on LT models and available on the LS. On models with second-row captain's chairs, available convenience trays with pop-up beverage holders between the first- and second-row seats fold easily out of the way for pass-through between seats. A second-row console is available with models equipped with second-row bucket seats.

With comfortable seating for up to seven, Uplander offers numerous passenger and cargo space configurations. Both the second- and third-row seats are foldable and removable. Second-row bucket seats can be folded and tumbled up against the front seats for increased cargo space, and the third-row fold-flat bench seat has a 50/50 split for added passenger/cargo flexibility. Uplander also offers a flexible rear convenience center/cargo system. With its doors closed, the box-like cargo system's height lines up with the folded third-row seat, providing a flat load floor, with more depth for carrying items behind the second row. Overall, there is up to 136.5 cubic feet (3,865 L) of cargo space.

Safety features

Uplander is engineered to be among the safest vehicles in the mid-van segment, and is designed for outstanding performance in real-world crashes. Notable features include structural enhancements to the frame using high-strength steel. A long front-end compartment provides a large crush zone to preserve interior space, while longer and stronger engine compartment side frame rails increase energy absorption in the event of a frontal impact.

All seven seating positions have three-point safety belts. Retractors for front seating positions have built-in load limiters that allow a controlled amount of give in the belt, thereby reducing the peak load on the chest during the "ride down" in a crash.

2007 Chevrolet Uplander Restoration Kit

The Uplander also has pretensioners in the front safety belt system that deploy at the same time as the frontal air bags to take up slack in the safety belt webbing. Pretensioners also help reduce the amount of occupant movement in the event of a crash to help reduce the risk of injury.

The Uplander is equipped with the LATCH (Lower Anchors and Tethers for CHildren) system in all second-row seating positions. This system provides two lower anchors and a top tether anchor to be used to secure a child seat to the vehicle seat structure. A top tether is also provided in the center position of the third row. These anchorages are designed to make it easier to properly install compatible child safety seats.

Standard, frontal dual-stage air bags for both driver and front passenger are complemented in the '06 model year with available side-impact air bags for the first- and second-row outboard seating positions. The Uplander also has GM's Passenger Sensing System, which 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 to restrain child passengers in an appropriate child seat placed in the second or third row of the vehicle.

The OnStar system is standard on Uplander. OnStar-equipped Uplanders 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. The OnStar service standard on the 2007 Uplander includes the General Motors Advanced Automatic Crash Notification (AACN) system, making crash data available to the participating 911 centers to help them dispatch the appropriate life-saving personnel and equipment to crash scenes faster.

GM Mobility options

A range of Mobility packages is available for Uplander, for customers who transport passengers or themselves but need easier access to enter or exit a vehicle. One such feature is a dealer-installed Sit-N-Lift power seat. Operated by a hand-held remote control, this innovative seat rotates and extends out from the right side of the vehicle's second-row seating area to provide easy transfer from a standing position or from a wheelchair.

The Sit-N-Lift seat is mounted in the original seat attachments and is installed in place of the second-row passenger seat. Available as a regular production accessory and as an accessory kit through GM Accessories, Sit-N-Lift requires no permanent vehicle modifications.

* Preliminary, pending certification. A new voluntary power and torque certification procedure developed by the SAE Engine Test Code committee was approved March 31, 2005. This procedure (J2723) ensures fair, accurate ratings for horsepower and torque by allowing manufacturers to certify their engines through third-party witness testing. GM was the first auto manufacturer to begin using the procedure and expects to use it for all newly rated engines in the future.

New for 2007

- 3.9L V-6 SFI engine with variable valve timing standard on all models
- 17-inch aluminum wheels and 17-inch bright chrome-clad aluminum wheels
- StabiliTrak standard on all extended length passenger models
- Four new colors: Light Amethyst Metallic, Polar Blue Metallic, Gold Mist Metallic, Medium Brown Metallic (interim availability)

Model Lineup

	Engine 3900 3.9L V-6	Transmission 4T65-E 4-speed auto
Uplander	S	S
Standard	S	

Specifications

Overview

Model:	Chevrolet Uplander
Body style / driveline:	front-drive, front-engine, 7-passenger crossover sport van
Construction:	unibody design with ladder-frame underbody construction; stamped steel
EPA vehicle class:	mid-van
Manufacturing location:	Doraville, Georgia
Key competitors:	Dodge Caravan, Ford Freestar, Honda Odyssey, Toyota Sienna, Mercury Monterey, Nissan Quest

Engine

Engines	3900 3.5L V-6 (LZ9, LGD)
Type:	3.9L 60-degree V-6
Displacement (cu in / cc):	237 / 3880
Bore & stroke (in / mm):	3.90 x 3.31 / 99 x 84
Block material:	cast iron
Cylinder head material:	cast aluminum
Valvetrain:	overhead valve, 2 valves per cylinder, continuously variable valve timing
Ignition system:	Quick Sync 58X; platinum-tipped spark plugs, low resistance spark plug wires
Fuel delivery:	sequential electronic multi-port fuel injection
Compression ratio:	9.8:1
Horsepower (hp / kw @rpm):	240 / 179 @ 6000
Torque (lb-ft / Nm @ rpm):	240 / 332 @ 4800
Recommended fuel:	regular unleaded or E85 (fleet only)
Maximum engine speed (rpm):	6400
Emissions controls:	close-coupled catalytic converter, Quick Sync 58X ignition, returnless fuel rail, fast-response O ² sensor
Estimated fuel economy (mpg city / hwy / combined):	17 / 25 / 21

Transmission

Type:	Hydra-Matic 4T65-E 4-speed automatic (M33) 4-speed FWD electronically controlled automatic overdrive transaxle with electronically controlled torque converter clutch
Gear ratios (:1):	
First:	2.92
Second:	1.57
Third:	1.00
Fourth:	0.70
Reverse:	2.38
Final drive ratio:	3.29

Chassis/Suspension

Front:	independent, MacPherson strut with coil springs (27 Nm); L-shaped stamped lower control arms and aluminum knuckles
Rear:	open-section twist axle with integral stabilizer bar, trailing arms with hydraulic bushings
Steering type:	Power-assisted rack-and-pinion
Steering ratio:	variable 17.6:1
Steering wheel turns, lock-to-lock:	3.05
Turning Diameter (curb to curb) Ft/m	39.4 / 12 (reg. length) 41 / 12.5 (ext. length)

Brakes

Type:	power assisted, 16-inch single-piston vented front / rear discs; std 4-wheel ABS
Rotor diameter x thickness (in / mm):	front: 11.7 x 1.3 / 297 x 32 rear: 11.8 x .47 / 300 x 12
Total swept area (sq in / sq cm):	front: 30.38 / 196 rear: 30.07 / 194

Wheels/Tires

Wheel size and type:	17 x 6.5-inch steel with styled bolt-on cover and 5-spoke design; opt: 5-spoke silver painted aluminum
Tires:	P225/60R17 Goodyear all-season touring

Dimensions

Exterior

Wheelbase (in / mm):	121.1 / 3077
Overall length (in / mm):	191 / 4851 (reg. length) 204 / 5191 (ext. length)
Width (in / mm):	72 / 1830
Height, without rack (in / mm):	70.5 / 1790 (reg. length) 72 / 1830 (ext. length)
Track (in / mm):	front: 62.4 / 1586; rear: 62.9 / 1598
Min. ground clearance (in / mm):	5.5 / 139
Step-in height (in / mm):	17.3 / 438.4
Curb Weight (lb / kg):	4084 / 1853 (reg. length) 4470 / 2028 (ext. length)

Interior

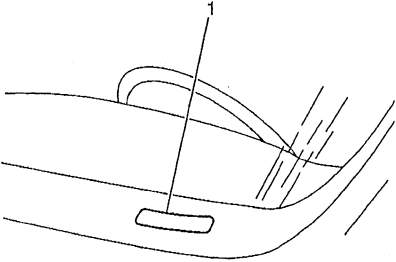
Seating capacity (front / middle / rear):	2 / 2 / 3
Headroom (in / mm):	
• Front:	39.8 / 1011 (reg. & ext. length)
• Second:	38.9 / 988 (reg. & ext. length)
• Third:	37.5 / 952 (reg. length) 38.2 / 970 (ext. length)
Legroom (in / mm):	
• Front:	39.9 / 1013 (reg. & ext. length)
• Second:	37.5 / 952 (reg. length) 38.9 / 987 (ext. length)
• Third:	34.3 / 871 (reg. length) 36.2 / 920 (ext. length)
Shoulder room (in / mm):	
• Front:	59.9 / 1521 (reg. & ext. length)
• Second:	62 / 1575 (reg. length) 61.2 / 1555 (ext. length)
• Third:	60.1 / 1527 (reg. length) 48.7 / 1236 (ext. length)
Cargo volume, behind front seats (cu ft / L):	120.1 / 3401.2 (reg. length) 136.5 / 3865.7 (ext. length)
Cargo volume, behind second-row seats (cu ft / L):	71 / 2010.7 (reg. length) 74.1 / 2098.5 (ext. length)
Cargo volume, behind third-row seats (cu ft / L):	17.7 / 501.3 (reg. length) 26.9 / 761.8 (ext. length)

Capacities

Fuel tank (gal / L):	20 / 76 (reg. length) 25 / 95 (ext. length)
Engine oil with filter (qt / L):	TBD
Cooling system (qt / L):	TBD
Cooling system with rear AC (qt / L):	TBD
Gross vehicle weight rating (lb / kg):	5622 / 2550
Trailer towing, with towing package (lb / kg):	3500 / 1588

Vehicle Identification

Vehicle Identification Number (VIN)



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

Position	Definition	Character	Description
1	Country of Origin	1	U.S.A.
2	Manufacturer	G	General Motors
3	Make	1	Chevrolet
4	GVWR/Brake System	D	GVWR 5001-6000-Brake System/Hydraulic
5-6	Line/Chassis Series	U/0 U/1 U/2 U/2 V/1 V/1 V/2 V/3 V/3 X/3 U/1	Chevrolet Uplander APV 4x2 RWB (1/2 Ton) Base Chevrolet Reg Wheelbase Front Wheel Drive Chevrolet Ext Wheelbase Front Wheel Drive Chevrolet Uplander LS APV 4x2 RWB (1/2 Ton) Chevrolet Uplander LT APV 4x2 RWB (1/2 Ton) Chevrolet Uplander APV 4x2 EWB (1/2 Ton) Chevrolet Uplander Cargo APV EWB (1/2 Ton) Chevrolet Uplander LS APV EWB (1/2 Ton) Chevrolet Uplander LT APV EWB (1/2 Ton) Chevrolet Ext Wheelbase All Wheel Drive Chevrolet Uplander AWD LT APV (1/2 Ton)
7	Body Type	5	Van
8	Engine Type	1	3.9L, V6, 60 Degree (LZ9)
9	Check Digit	--	--
10	Model Year	7	2007
11	Plant Location	D	Doraville, GA. USA
12-17	Plant Sequence Number	--	--

VIN Derivative

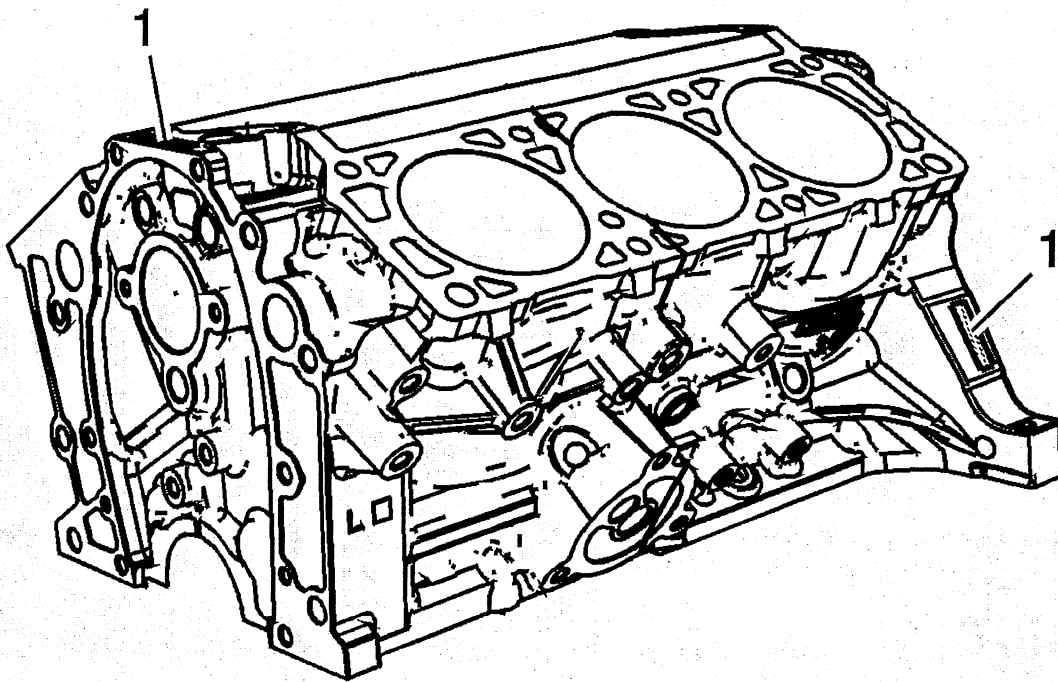
All engines and transmissions are stamped or laser etched with a partial vehicle identification number (VIN), which was derived from the complete VIN. A VIN derivative contains the following nine positions:

VIN Derivative Position	Definition	Character	Description
1	GM Division Identifier	1	Chevrolet
2	Model Year	7	2007
3	Assembly Plant	D	Doraville, GA
4-9	Plant Sequence Number	--	Plant Sequence Number

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 3.9L (LZ9)

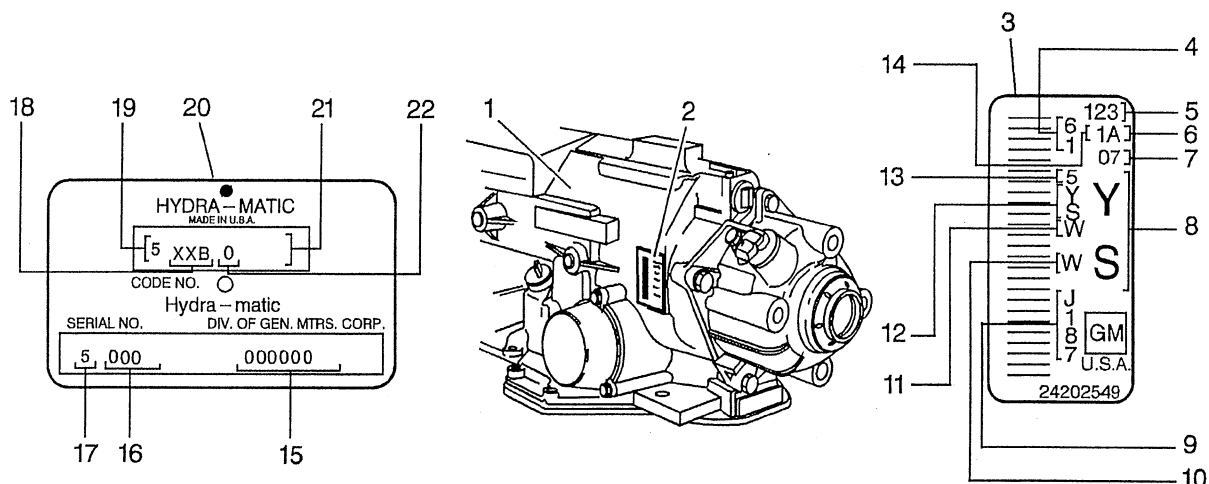


The Vehicle Identification Number - VIN derivative (1) for 3900 LZ9 is stamped or laser etched on the front and left side of the engine block. The Vehicle Identification Number - VIN derivative is nine digits long and can be used to determine if a vehicle contains the original engine.

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

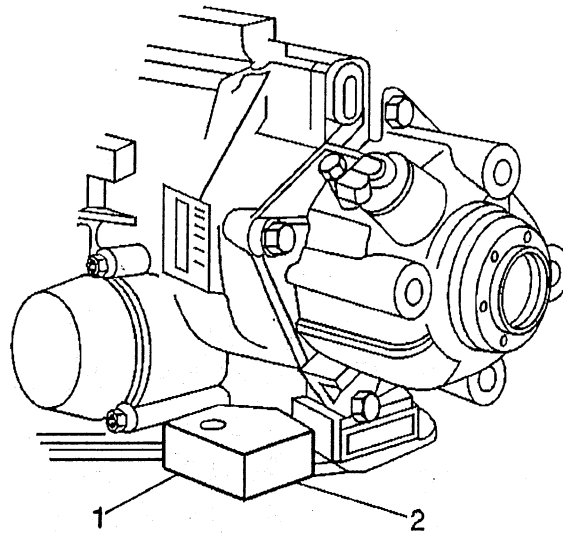
Transmission ID and VIN Derivative Location

Transmission ID and VIN Derivative Location 4T60-E/4T65-E(c)



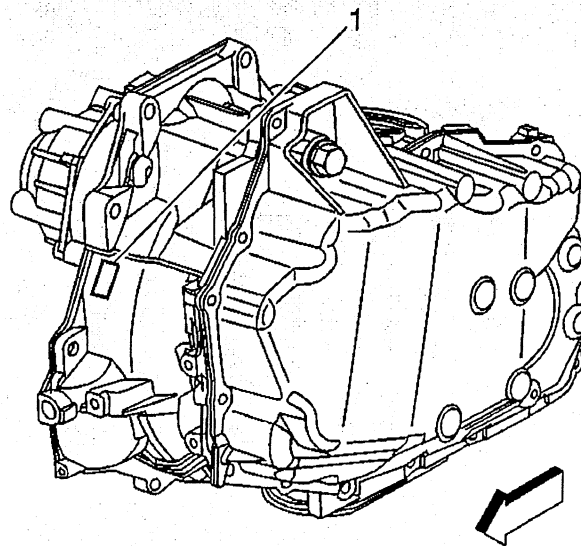
- (1) SRTA Tag Location
- (2) Transmission ID Location
- (3) Hydra-Matic 4T65-E ID Tag
- (4) Transmission
- (5) Julian Date
- (6) Shift Built A = First Shift; B = Second Shift; C = Third Shift
- (7) Update Level
- (8) Model
- (9) Serial Number in Base Code 31
- (10) W = Warren Plant
- (11) Hydra-Matic 4T65-E
- (12) Model
- (13) Model Year 5 = 2005
- (14) Line Built 1 = Line 1; 2 = Line 2; 3 = Line 3; 4 = Line 4
- (15) Serial Number
- (16) Julian Date
- (17) Calendar Year 5 = 2005
- (18) Model
- (19) Model Year 5 = 2005
- (20) Hydra-Matic 4T65-E SRTA Tag
- (21) Control Number
- (22) Transmission

Transmission VIN Location 4T65-E, M15/MN3/MN7(c)



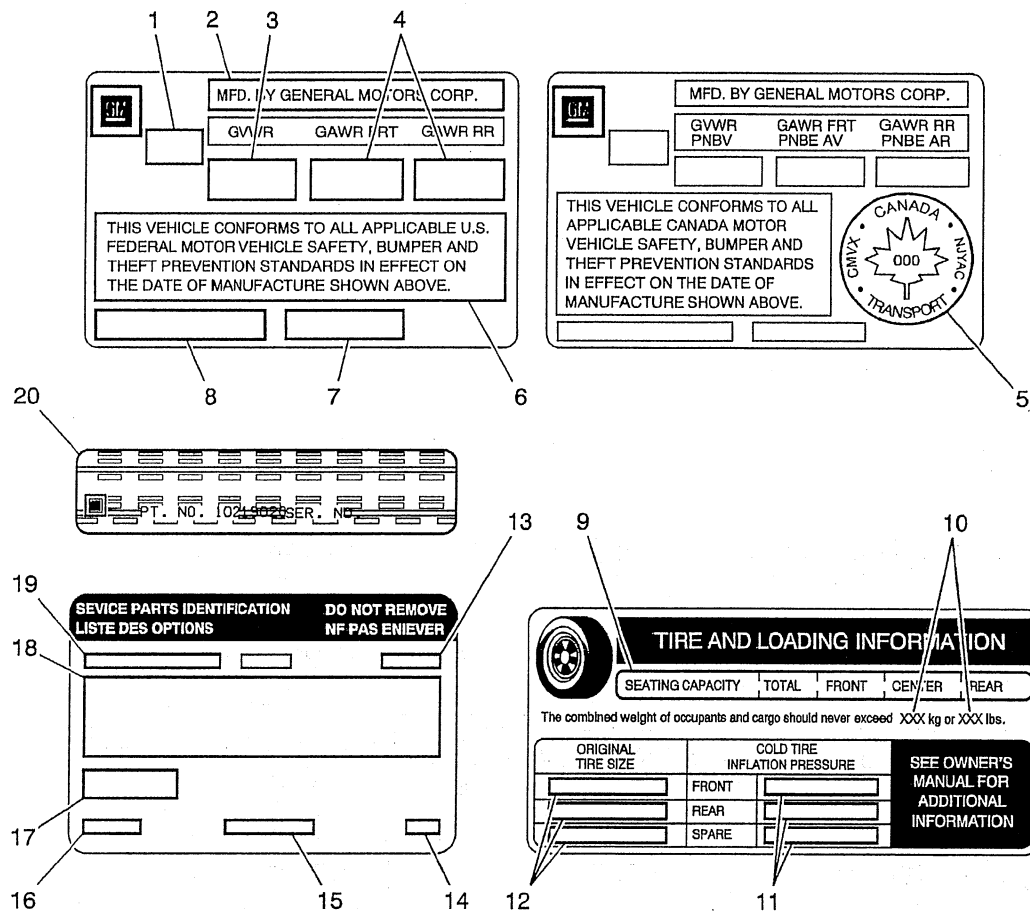
The primary (1) and secondary (2) Manual Tooling VIN Derivative Locations are on the casting of the transmission housing.

Transaxle VIN Derivative Stamping(c)



The location for the Semi-Automatic VIN derivative (1) is on the transmission housing.

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
ABA	Seat Configuration - #1
ABB	Seat Configuration - #2
ABD	Seat Configuration - #4
ABF	Seat Configuration - #6
ABG	Seat Configuration - #7
ABI	Seat Configuration - #11
ABM	Seat Configuration - #12
ABW	Window - Opaque, All Except Windshield and Front Doors
AG1	Adjuster Front Seat - Power, Multi-Directional, Driver
AG2	Adjuster Passenger Seat - Power, Multi-Directional
AJ1	Window Tinted - Deep, All Except Windshield and Doors
AJ7	Restraint System - Seat, Inflatable, Driver and Passenger, Front and Side
AK5	Restraint System - Seat, Inflatable, Driver and Passenger
AL0	Sensor Indicator - Inflatable Restraint, Front Passenger/Child Presence Detector
AL4	Seat Rear - Bucket
AM9	Seat Rear - Split Back, Folding
AN2	Seat Child - Integral
APY	Net - Convenience, Lateral Mesh

2007 Chevrolet Uplander Restoration Kit

RPO	Description
AP3	Lock Control, Entry - Remote, Keyless Entry, Start
AP8	Lock Control, Entry - Remote Entry, Extended Range
AP9	Net - Convenience
AQW	Equipment - Seat Base, Mobility, Handicapped
AR9	Seat - Front Bucket, Deluxe
AT8	Restraint Provisions - Child, Rear Seat, Rear Facing
AV6	Seat Rear - Crew
AW9	Restraint System - Seat, Inflatable, Driver and Passenger, Front Side and Rear Side
A20	Window - Rear QTR, Vent Swing Out
A31	Window - Power Operated, All Doors
BAD	Equipment - Modification, Trim, Delete
BAG	Parts Package - Export
BG9	Covering Floor - Rubber
B3V	Test - Extended Water
B37	Covering - Floor Mat, Front and Rear, Auxiliary
B50	Covering - Floor Mat, Front and Rear, Auxiliary - Deluxe
B86	Molding B/S - Body Color
CJ3	HVAC System - Air Conditioner Front, MAN Temp Cont, Aux Temp Cont
CU7	Country - Kuwait
CU8	Country - Saudi Arabia
CV3	Country - Mexico
CV4	Country - Israel
CV6	Country - Chile
CW2	Country - Gulf Areas (Bahrain, Kuwait, Oman, Qatar, Saudi Arabia, UAE)
CW3	Country - Asia/Pacific (Bangladesh, Fiji, Laos)
CW9	Country - Miscellaneous
C25	Wiper System - Rear Window, Intermittent
C4S	GVW Rating - 2 550 kg/5,622 lbs
C49	Defogger - Rear Window, Electric
C60	HVAC System - Air Conditioner Front, Man Controls
C69	HVAC System Rear - Air Conditioner
C8R	GVW Rating - 2 650 kg/5,842 lbs
DOE	Plant Code - Doraville, GA, USA
DH6	Mirror Inside Front Vanity - Left and Right, Sunshade, Illumination
DL5	Decal - Roadside Service Information
DL6	Mirror Outside - Left and Right, Remote Control, Electric, Manual Folding, Color
DR5	Mirror Outside - Left and Right, Remote Control, Electric, Heated, Manual Folding, Color
D34	Mirror Inside Front Vanity - Left and Right, Sunshade, No Illumination
D4V	Tray - Driver, Passenger, Folding
D55	Console - Front Compartment, Floor
D7E	Tray - Load Floor, Storage
D72	Handle Outside Door - Black
D75	Handle Outside Door - Body Color
EXP	Export
E58	Door - Electric, Sliding, SI, Right
E59	Door - Electric, Sliding, SI, Left
FE1	Suspension System - Soft Ride
FE2	Suspension System - Ride, Handling
FE3	Suspension System - Sport
FE9	Certification - Emission, Federal
FR9	Ratio - Transaxle Final Drive 3.29
GAM	Vehicle - Government (G. S. A. Sales)

2007 Chevrolet Uplander Restoration Kit

RPO	Description
GQ1	Axle - STD Ratio
G50	Spring Rear - Heavy Duty, Var 1
G67	Level Control - Auto, Air
JF9	Brake - HYD Power, 4 Wheel Disc
JL4	Control - Active Brake
JL9	Brake System - Power, Front and Rear Disc Antilock, Front and Rear Wheel
KA1	Heater - Seat, Front
KC4	Cooling System - Engine Oil
KC7	Receptacle - Electrical, Rear Seat
KG7	Generator - 125 Amp
KP2	Timer - Retained Accessory Power
K05	Heater Engine - Block
K34	Cruise Control - Automatic, Electronic
K45	Air Cleaner - Heavy Duty
LGD	Engine - Flexible Fuel, (Gas/Ethanol), 6 Cylinder, 3.9L, V6, SFI, Offset Bore, GMNA
LZ9	Engine - Gas, 6 Cylinder, 3.9L, SFI, V6, Offset Bore, GM
MTF	Provisions - Fire Extinguisher Mounting
MX0	Merchandised Trans - Auto Provisions, O/D
M15	Transmission - Automatic 4 Speed, HMD, 4T65-E, Enhanced Electronic
NE1	Certification - Emission, Geographically Restricted Registration for Vehicles up to 14,000 lbs GVW (Use 2003 Mdl Yr)
NF9	Emission System - General, OBD MIL Suppression
NK4	Steering Wheel - Sport Leather
NT7	Emission System - Federal, Tier 2
NU1	Emission System - California, Lev 2
NW9	Traction Control - Electronic
N30	Steering Wheel - Deluxe
N85	Wheel - 17 X 6.5, Aluminum
P04	Wheel - 17 X 6.5, Aluminum, Sport
P23	Wheel - 17 X 6.5, Aluminum, Chrome
QKY	Tire All - P225/60R17-98S BW TL ALS
QLR	Tire All - P225/60R17-98S BW ST TL AL2
QNP	Tire All - P225/60R17-98H BW ST TL AL3
QR5	Wheel - 17 X 6.5, Steel
QVX	Tire All - P225/60R17-98S WOL PE/ST TL AL2
R6C	Control - Sales Item No. 3
R6K	Control - Sales Item No. 11
R6N	Control - Sales Item No. 14
TT5	Headlamps - Halogen, 2
TX3	Kit - Headphone Set
T56	Spoiler - Rear, Roof, Sport
T61	Lamp System - Daytime Running
T62	Lamp System - Daytime Running - Delete
T8S	Tray - Captain Seat, Folding
UA6	Theft Deterrent System
UC2	Speedometer - Instrument, Kilometers and Miles, Kilometer Odometer, Positive Bias
UD4	Alarm - Vehicle Speed, 120 km/h
UD7	Sensor Indicator - Rear Parking Assist
UE0	Communication System - Vehicle, G.P.S. - Not Installed
UE1	Communication System - Vehicle, G.P.S. 1
UG1	Opener - Garage Door, Universal
UH8	Cluster - Instrument, Cool Temp, Trip Odom, Tach

2007 Chevrolet Uplander Restoration Kit

RPO	Description
UH9	Cluster - Instrument, Cool Temp, Trip Odom, Tach, Driver Information Center
UK3	Control - Steering Wheel, Accessory
UL2	Frequencies - European
UL8	Frequencies - Saudi Arabian
UMS	Multimedia System - Removable Hard Disk Drive Storage Cartridge and a Fixed Player (Audio/Video/Videogame)
UQ3	Speaker System - Enhanced Audio
UQ5	Speaker System - 4, Dual FRT DR MTD, Dual EXT D RGE QTR MNTD
US8	Radio - AM/FM Stereo, Seek/Scan, CD, Auto Tone, Clock, ETR, MP3, RDS
US9	Radio - AM/FM Stereo, Seek/Scan, RDS, Multiple Compact Disc, Auto Tone Control, Clock ETR, MP3
U19	Speedometer - Instrument, Kilometers and Miles, Kilometer Odometer
U2K	Digital Audio System - S-Band
U3U	Radio - AM/FM Stereo, Seek/Scan, DVD, CD, Clock, ETR, Navigation, Voice REC, MP3
U42	Entertainment Package - Rear Seat
VBX	Language Label - Arabic
VB1	Label - Shipping, Japan
VC5	Label - Shipping, Except US, US Possessions, or Japan
VDJ	Box - Toy
VEH	Kit - Overhead Bin, Lifestyle Package, CD/DVD Case, First Aid Kit
VFF	Video Format - Region 1, NTSC
VFJ	Video Format - Region 2, PAL
VFM	Video Format - Region 4, NTSC
VGC	Protector - Film, Paint Etch Preventive
VGG	Protector - Rear Bumper
VG1	Protector - Underhood Compound, Corrosion Preventive, Water Based, Clear
VG4	Protector - Undervehicle Compound, Corrosion Preventive, Water Based, Black
VK3	License Plate Front - Front Mounting Package
VL2	Label, Spare - Caution, Compact Spare
VPM	Modification - Noise Control, Mexico
VR6	Hook - Tie-Down Shipping
VVL	Rail - Roof Overhead System
VVM	Compartment - Overhead Console, Storage Module
VXS	Vehicle - Complete
VXT	Vehicle - Incomplete
VZ3	Label - Mercury Disposal Notification
V08	Cooling System - Heavy Duty
V39	Kit - Emergency
V41	Kit - Accessory
V59	Rail - Roof
V64	Rail - Roof, Silver
V73	Vehicle Statement - USA/Canada
V78	Vehicle Statement - Delete
V87	Vehicle Statement - Gulf States Organization
V92	Trailer Provisions
WDA	Market Brand - Saturn
W26	Merchandised Package - Buick Uplevel (CXL)
W49	Market Brand - Buick
X88	Market Brand - Chevrolet
YF5	Certification - Emission, California
YK6	Identification - (SEO)
Y3G	Merchandised Package - Handicapped, Mobility, Personal Use

2007 Chevrolet Uplander Restoration Kit

RPO	Description
Y3H	Merchandised Package - Handicapped, Mobility, Paratransit
Y4T	Merchandised Package - LT
Y9I	Model Conversion - Up Level Version
Y91	Merchandised Package - Luxury Edition
ZP2	Seating Arrangement - Driver and Passenger, Low Back
ZP4	Seating Arrangement - 4 Passenger
ZP5	Seating Arrangement - 5 Passenger
ZP7	Seating Arrangement - 7 Passenger
ZX0	Seating Arrangement - 3 Passenger
Z10	Merchandised Package - Cargo Van
Z41	Market Brand - Pontiac
Z49	Export - Canadian Modified Mandatory Base Equipment
Z5X	Mirror Provisions - Arabic Language
1FL	Package - FL Option 1
1LS	Package - LS Option 1
1LT	Package - LT Option 1
1Q6	Vehicle Inspection - Predelivery Form
1SA	Package - Option 01
1SB	Package - Option 02
1SC	Package - Option 03
1SD	Package - Option 04
1SE	Package - Option 05
1SF	Package - Option 06
1SV	Package - Option 20
17I	Interior Trim - Medium Gray (1) (97)
2FL	Package - FL Option 2
2LT	Package - LT Option 2
3LT	Package - LT Option 3
34I	Interior Trim - Medium Cashmere (1) (04)
8X1	Vehicle - Label, Fasten Seat Belts

Technical Information

Maintenance and Lubrication

Capacities - Approximate Fluid

Application	Specifications	
	Metric	English
Cooling System		
Cooling System with Front A/C	10.7 L	11.3 qt
Cooling System with Front/Rear A/C	12.2 L	12.8 qt
Engine Oil with Filter		
3.9L (L29)	3.8 L	4.0 qt
Engine Oil without Filter		
3.9L (L29)	3.3 L	3.5 qt
Fuel Tank		
Standard	75.7 L	20.0 gal
Extended	95.0 L	25.1 gal
Automatic Transaxle - 4T65-E		
Automatic - Drain and Refill	7.0 L	7.4 qt
Automatic - Complete Overhaul	9.5 L	10.0 qt
Automatic - Dry	12.7 L	13.4 qt

All capacities are approximate. When adding, be sure to fill to the approximate level, as recommended in this manual. Recheck fluid level after filling.

Maintenance Items

Part	GM Part Number	ACDelco® Part Number
Engine Air Cleaner/Filter		
3.9L V6 Engine	15222510	--
Engine Oil Filter		
3.9L V6 Engine	89017342	PF61
Passenger Compartment Air Filter	10322538	CF123
Spark Plugs		
3.9L V6 Engine	12591131	41-100
Windshield Wiper Blades		
Driver's Side -- 22.0 inches (55.0 cm)	12335833	--
Passenger's Side -- 24.0 inches (60.0 cm)	12335834	--
Rear -- 16.0 inches (40.0 cm)	15192147	--

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.
Hood Latch Assembly, Secondary Latch, Pivots, Spring Anchor, and Release Pawl	Lubriplate Lubricant Aerosol (GM Part No. U.S. 12346293, in Canada 992723) or lubricant meeting requirements of NLGI #2, Category LB or GC-LB.
Hood and Door Hinges, Rear Folding Seat, Fuel Door Hinge, Liftgate Hinges and Power Sliding Door Cable	Multi-Purpose Lubricant, Superlube (GM Part No. U.S. 12346241, in Canada 10953474).
Sliding Door Track	Lubriplate Lubricant Aerosol (GM Part No. U.S. 12346293, in Canada 992723) or lubricant meeting requirements of NLGI #2, Category LB or GC-LB.
Weatherstrip Conditioning	Weatherstrip Lubricant (GM Part No. U.S. 3634770, in Canada 10953518) or Dielectric Silicone Grease (GM Part No. U.S. 12345579, in Canada 992887).

Descriptions and Operations

Power Steering System Description

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

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

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

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

- A recirculating ball system
- A rack and pinion system

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

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

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

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

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

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

Steering 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 traveling 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 vehicles 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.

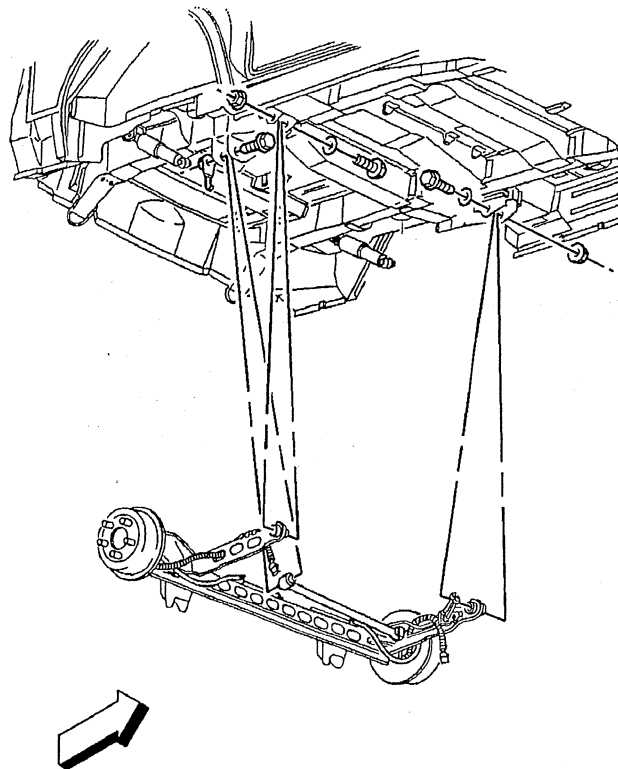
This requires that the steering knuckle be suspended between a lower control arm and a strut assembly. The lower control arm attaches from the steering knuckle at the outermost point of the control arm. The attachment is through a ball and socket type joint. The innermost end of the control arm attached at 2 points to the vehicle frame through semi-rigid bushings. The upper portion of the steering knuckle is attached to a strut assembly. The strut assembly then connects to the vehicle body by way of an upper bearing. The steering knuckle is allowed to travel up and down independent of the vehicle body structure and frame.

This up and down motion of the steering knuckle as the vehicle travels over bumps is absorbed predominantly by the coil spring. This spring is retained under tension over the strut assembly. A strut is used in conjunction with this system in order to dampen out the oscillations of the coil spring. A strut is a basic hydraulic cylinder. The strut is filled with oil and has a moveable shaft that connects to a piston inside the strut. Valves inside the shock absorber offer resistance to oil flow and consequently inhibit

rapid movement of the piston and shaft. Each end of the shock absorber is connected in such a fashion to utilize this recoil action of a spring alone. Each end of the strut is designed as the connection point of the suspension system to the vehicle and acts as the coil spring seat. This allows the strut to utilize the dampening action to reduce the recoil of a spring alone. The lower control arm is allowed to pivot at the vehicle frame in a vertical fashion. The ball joint allows the steering knuckle to maintain the perpendicular relationship to the road surface.

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

Rear Suspension



The rear suspension system on this vehicle is the trailing-arm axle type. Two control arms (trailing arms) mount the axle to the vehicle body. The rear suspension system performs the following functions:

- Maintains the relationship of the rear axle to the body
- Opposes the torque reaction on acceleration and braking

The rear suspension system on this vehicle consists of the following components:

- The rear axle
- Two coil springs
- Two shock absorbers
- The rear axle tie rod

The rear axle contains a stabilizer shaft which is an integral part of the rear axle. A wheel bearing/hub is secured at each end of the rear axle. The wheel bearing/hub also contains an integral wheel speed sensor.

The rear coil springs are retained between the spring seat in the underbody and the spring seat on the top of the rear axle. Rubber insulators isolate the coil spring at the top and at the bottom.

The shock absorbers mount at the bottom with a bolt and nut to brackets which are welded to the axle housing and at the top with a bolt and nut beneath the body.

The rear tie rod attaches to the axle and to the underbody. The rear axle tie rod controls the lateral movement of the rear axle in relation to the vehicle body. The rear axle tie rod bushings are an integral part of the rear axle tie rod.

Wheels and Tires

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.

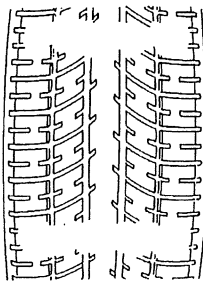
The following factors have an important influence on tire life:

- 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

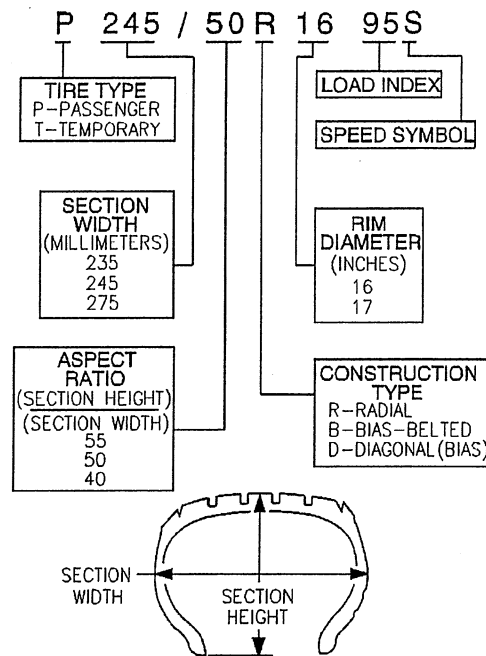
Tires with a lower than recommended pressure can cause the following conditions:

- 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

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.

Automatic Level Control General Description

The ALC system controls the ride height of the rear of the vehicle. The system consists of the following components:

- Two air assisted shock absorbers.
- A level sensor with an integrated control module.
- A compressor with an integral exhaust solenoid valve.
- A compressor relay.
- An inflator solenoid valve.
- An accessory inflator switch with an LED for diagnostics.

The level sensor senses the height of the rear of the vehicle. The exhaust valve energizes if the vehicle is higher than desired. The compressor relay energizes in order to activate the compressor assembly if the vehicle is lower than desired.

Voltage is applied at all times to the rear suspension leveling air compressor and the ALC sensor. This allows the ALC system to vent after the load is removed from the vehicle, even if the ignition is in the OFF position. Approximately 30 seconds after the ignition is turned to the ON position, the compressor will run for 4 seconds to ensure that the shock absorbers will be filled with adequate residual pressure.

The ALC sensor must detect an out of trim state for 20 seconds before activating the intake or exhaust output. This action prevents operation during normal riding motions. In addition, the sensor limits the compressor run time or the exhaust solenoid valve energized time to a maximum of 255 seconds. This time limit is necessary to prevent continuous compressor operation in case of a severe system leak or continuous vent. Cycling the ignition resets the 255 second run timer.

Rear Suspension Leveling Air Compressor

The compressor is a positive displacement rocking piston air pump powered by a 12-volt direct current permanent magnet motor. The compressor head casting contains the piston intake valves and contains the piston exhaust valves. The compressor is mounted to the underbody by a bracket.

ALC Sensor

The ALC sensor is an electronic device. The following is controlled by the ALC sensor:

- The Automatic Level Control Compressor
- The Exhaust Solenoid Valve
- The Inflator Solenoid Valve

The sensor circuitry provides a 20 second delay before either circuit can be completed to prevent falsely actuating the compressor or to prevent falsely actuating the solenoid valve circuits during normal ride motions.

The sensor also limits the compressor run time or the solenoid valve energized time to a maximum of 255 seconds. This time limit function is necessary to prevent continuous compressor operation in the case of a severe system leak or in the case of a continuous exhaust valve operation. Turning the ignition off and on resets the electronic timer to renew the 255 second maximum run time. The sensor is located in the rear of the vehicle mounted to the underbody. The actuator arm of the sensor attaches to the rear suspension by a link.

The ALC system is capable of performing diagnostics on all components of the system. This self diagnostic feature will aid in the repair of the system. The diagnostic codes will be used to provide more detailed information regarding the system fault found during self test. The self test will be entered by pressing the accessory inflator switch continuously for 3 seconds. The self test will begin by raising the rear of the vehicle. Then hold the rear of the vehicle up for a calibrated amount of time to check for leaks, then lower the rear of the vehicle to trim height. The self test will take roughly 200 seconds to complete. The flashing pulses on the accessory inflator switch LED shall represent the number of the diagnostic code.

When the sensor has been replaced a "System Untested" code will be represented by a continuous flashing pulse with a repetition rate of 0.25 seconds. The self test will have to be performed and a code 12 system OK will have to be displayed on the accessory inflator switch LED before the system can function normally.

Rear Leveling Shock Absorbers

The shock absorber is essentially a conventional shock absorber enclosed in an air chamber. The shock absorbers are constructed with a rubber-like sleeve attached to the dust tube and attached to the shock reservoir. This makes a flexible chamber which extends the shock when the air pressure in the chamber is increased. The weight of the vehicle collapses the shock absorber when the air pressure is reduced. To maintain proper operation and to maintain reliability of the shock absorber a minimum residual air pressure of 55 kPa (8 psi) is maintained at all times by the air dryer.

Tubing and Fittings

The snap-on connectors attach the tubing to the rear shock absorbers. The connector housings contain retainer clips. When a tubing is attached to a shock fitting, the retainer clip snaps into a groove in the shock fitting, locking the tubing in position. All tubing fittings are sealed with 2 O-rings.

Air Compressor Filter

The air enters the ALC system through the filter mounted to the air compressor bracket. The filter housing contains a foam filter which prevents contaminants from entering the ALC system.

Raising Vehicle

The vehicle body is forced downward when a load is added to the vehicle. This load causes the sensor actuating arm to rotate upward. The upward movement of the sensor actuating arm activates the internal timing circuit. The sensor completes the compressor circuit to ground after an initial delay of 20 seconds. With the compressor circuit complete, the compressor runs, taking in air through the air compressor filter and sending the air through the tubing to the shock absorbers. As the shock absorbers inflate, the rear of the vehicle moves upward, rotating the sensor actuating arm back toward its original position prior to the load addition. The sensor opens the compressor circuit and shuts off the compressor once the body reaches its original height ± 4 mm (± 0.16 in).

Lowering Vehicle

The body is forced upward when an excess load is removed from the rear of the vehicle. This causes the sensor actuating arm to rotate downward. The downward rotation of the actuating arm activates the internal timing circuit. The sensor completes the solenoid valve circuit to ground after an initial delay of 20 seconds. With the solenoid valve energized, the air begins to exhaust out of the shock absorbers back through the air dryer, the solenoid valve, the air compressor filter and into the atmosphere. The sensor actuating arm rotates upward toward its original position as the rear of the vehicle lowers. When the vehicle body reaches its original height ± 4 mm (± 0.16 in), the sensor opens the solenoid circuit, de-energizing the solenoid valve, which prevents any further air from escaping.

Air Replenishment Cycle

The air replenishment cycle serves to ensure that the shock absorbers are filled with at least minimum residual pressure. The sensor commands an air replenishment cycle each time the ignition switch is turned on. Sensor position is checked when the ignition switch is turned on. If the sensor indicates that it is not necessary to raise or lower the vehicle, an internal timer circuit is activated. After a 30 second delay, the compressor is turned on for approximately 4 seconds. This ensures that the shock absorbers are filled with adequate residual pressure.

If the weight is added to, or removed from, the vehicle during the initial 30 second delay, the air replenishment cycle will be overridden and the vehicle will raise or lower after the normal delay.

Compressor Head Relief

A 1.5 second actuation of the exhaust solenoid valve occurs each time the compressor is to start to ensure the low compressor motor starting current. The 1.5 second actuation of the exhaust solenoid valve reduces the air pressure in the compressor head cavity.

Inflator Solenoid

The inflator solenoid has battery voltage to it at all times and is controlled by the height sensor with providing a ground to the solenoid. The solenoid valve is mounted to the compressor bracket under the vehicle.

Inflator Switch

The inflator switch is in the rear cargo area on the drivers side on the vehicle. When the switch is depressed, the compressor is activated along with the inflator solenoid and air pressure is directed to the schrader valve that is located next to the Inflator switch. The LED on the switch is also on during the inflator function. Depress the switch again and the compressor and the LED are deactivated. The switch and LED are also used for diagnostics. Depress and hold the switch for 3 seconds and the system enters self test. After roughly 200 seconds the LED will blink out the diagnostic codes.

Driveline System Description and Operation

Wheel Drive Shafts

Front wheel drive axles are flexible assemblies.

Front wheel drive axles consist of the following components:

- A front wheel drive shaft tri-pot joint (inner joint)
- A front wheel drive shaft constant velocity joint (outer joint)
- A front wheel drive shaft The front wheel drive shaft connects the front wheel drive shaft tri-pot joint and the front wheel drive shaft constant velocity joint.

The front wheel drive shaft tri-pot joint is completely flexible axially and laterally.

The front wheel drive shaft constant velocity joint is flexible axially.

Boots (Seals) And Clamps

The front wheel drive shaft constant velocity joint and the front wheel drive shaft tri-pot joint boots (seals) in the front wheel drive axle are made of a thermoplastic material.

The clamps in front wheel drive axle are made of stainless steel.

The boot (seal) provides the following functions:

- Protection of the internal parts of the front wheel drive shaft constant velocity joint and the front wheel drive shaft tri-pot joint. The boot (seal) protects the grease from the following sources of damage:
 - Harmful atmospheric conditions (such as extreme temperatures or ozone gas)
 - Foreign material (such as dirt or water)
- Allows angular movement and the axial movement of the front wheel drive shaft tri-pot joint.
- Allows angular movement of the front wheel drive shaft constant velocity joint.

Important

Protect the boots (seals) from sharp tools and from the sharp edges of the surrounding components.

Any damage to the boots (seals) or the clamps will result in leakage. Leakage will allow water to leak into the front wheel drive shaft tri-pot joint and the front wheel drive shaft constant velocity joints. Leakage will also allow grease to leak out of the front wheel drive shaft tri-pot joints and the front wheel drive shaft constant velocity joints.

Leakage may cause noisy front wheel drive axle operation and eventual failure of the internal components.

The clamps provide a leak proof connection for the front wheel drive shaft tri-pot joint and the front wheel drive shaft constant velocity joint at the following locations:

- The housing
- The front wheel drive shaft

The thermoplastic material performs well under normal conditions and normal operation. However, the material is not strong enough to withstand the following conditions:

- Abusive handling
- Damage from sharp objects (such as sharp tools or any sharp edges of the surrounding components in the vehicle).

Front Wheel Drive Shaft Tri-pot Joint (Inner Joint)

The front wheel drive shaft tri-pot joint is made with the tri-pot design without an over-extension limitation retainer.

The joint is constructed as follows for vehicles that are equipped with an automatic transmission:

- The left front wheel drive axle has a female spline. The female spline installs over a stub shaft that protrudes from the transaxle.
- The right front wheel drive axle has a male spline. The right front wheel drive axle uses barrel type snap rings in order to interlock with the transaxle gears.

Front Wheel Drive Shaft Constant Velocity Joint (Outer Joint)

The front wheel drive shaft constant velocity joint is made with the Rzeppa joint design.

The shaft end (which mates with the knuckle/hub) has a helical spline. The helical spline ensures a tight, press-type fit.

This design prevents end play between the hub bearing and the front wheel drive axle.

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

System Component Description

The park brake system consists of the following:

Park Brake Lever Assembly

Receives, multiplies, and transfers park brake system apply input force from operator to park brake cable system.

Releases applied park brake system when lever is returned to at-rest, lowered, position.

Park Brake Cables

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

Park Brake Cable Equalizer

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

Park Brake Apply Lever

Multiplies and transfers input force to park brake actuator/adjuster.

Park Brake Actuator/Adjuster

Uses multiplied input force from apply lever to expand drum brake shoes toward the friction surface of the brake drum.

Threaded park brake actuators/adjusters are also used to control clearance between the drum brake shoes and the friction surface of the brake drum.

Drum Brake Shoes

Applies mechanical output force from park brake actuator/adjuster to friction surface of the brake drum.

System Operation

Park brake apply input force is received by the park brake lever assembly being applied. The input force is multiplied by the lever assembly, 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/adjusters which expand the drum brake shoes toward the friction surface of the brake drum in order to prevent the rotation of the rear tire and wheel assemblies. The park brake lever assembly releases an applied park brake system when it is returned to the at-rest, lowered, position.

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

2007 Chevrolet Uplander Restoration Kit

or popping noise may also be heard as the solenoid valves cycle rapidly. During antilock braking on dry pavement, intermittent chirping noises may be heard as the tires approach slipping. These noises and pedal pulsations are considered normal during antilock operation.

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

Engine Description and Operation

Engine Mechanical – 3.9L (LZ9)

Mechanical Specifications

Application	Specification	
	Metric	English
General Data		
Engine Type	60 degree V-6	
Displacement	3.9L	238 cu in
RPO	LZ9	
VIN	1	
Bore	99 mm	3.90 in
Stroke	84 mm	3.31 in
Compression Ratio	9.8:1	
Firing Order	123456	
Spark Plug Gap	1.00 mm	0.040 in
Block		
Camshaft Bearing Bore Diameter - Front and Rear	55.26-55.31 mm	2.175-2.177 in
Camshaft Bearing Bore Diameter - Middle #2, #3	54.75-54.80 mm	2.155-2.157 in
Crankshaft Main Bearing Bore Diameter	72.1535-72.0695 mm	2.840-2.841 in
Crankshaft Main Bearing Bore Out-of-Round	0.008 mm	0.00031 in
Cylinder Bore Diameter	99.000-99.018 mm	3.897-3.898 in
Cylinder Bore Out-of-Round - Diameter - Production	0.026 mm	0.0010 in
Cylinder Bore Out-of-Round - Diameter - Service	0.030 mm	0.0011 in
Cylinder Bore Taper - Production	0.026 mm	0.0010 in
Cylinder Bore Taper - Service	0.030 mm	0.0011 in
Cylinder Head Deck Height	224 mm	8.818 in
Cylinder Head Deck Surface Flatness	0.05 mm per 150 mm	0.0019 in per 5.905 in
Valve Lifter Bore Diameter	21.417-21.455 mm	0.843-0.844 in
Camshaft		
Camshaft Bearing Inside Diameter	51.500-51.525 mm	2.028-2.029 in
Camshaft Journal Diameter	51.415-51.440 mm	2.024-2.025 in
Camshaft Journal Out-of-Round	0.025 mm	0.001 in
Camshaft Lobe Lift - Exhaust	6.9263 mm	0.2727 in
Camshaft Lobe Lift - Intake	6.9263 mm	0.2727 in
Cooling System		
Capacity	12.4 liters	13.1 quarts
Thermostat Full Open Temperature	195 degrees	
Connecting Rod		
Connecting Rod Bearing Clearance	0.18-0.062 mm	0.0007-0.017 in
Connecting Rod Bore Diameter	60.322-60.338 mm	2.375-2.376 in
Connecting Rod Bore Out-of-Round	0.006 mm	0.00023 in
Connecting Rod Length - Center to Center	150 mm	5.9 in
Connecting Rod Side Clearance	0.200-0.241 mm	0.008-0.009 in
Crankshaft		
Connecting Rod Journal Diameter	57.122-57.138 mm	2.248-2.249 in
Connecting Rod Journal Out-of-Round	0.005 mm	0.0002 in
Connecting Rod Journal Taper	0.005 mm	0.0002 in

Application	Specification	
	Metric	English
Connecting Rod Journal Width	21.92-22.08 mm	0.863-0.869 in
Crankshaft End Play	0.060-0.210 mm	0.0024-0.0083 in
Crankshaft Main Bearing Journal Width	23.9-24.1 mm	0.941-0.949 in
Crankshaft Main Bearing Clearance - Except #3	0.019-0.064 mm	0.0008-0.0025 in
Crankshaft Main Bearing Clearance - #3 Thrust Bearing	0.032-0.077 mm	0.0012-0.0030 in
Crankshaft Main Journal Diameter	67.239-67.257 mm	2.6473-2.6483 in
Crankshaft Main Journal Out-of-Round	0.005 mm	0.0002 in
Crankshaft Main Journal Taper	0.005 mm	0.0002 in
Crankshaft Rear Flange Runout	0.04 mm	0.0016 in
Cylinder Head		
Combustion Chamber Depth - at Measurement Point	2.2 mm	0.087 in
Surface Finish - Maximum	2.8 RA	
Surface Flatness - Block Deck	0.08 mm Per 152 mm	0.003 in Per 6 in
Surface Flatness - Exhaust Manifold Deck	0.1 mm	0.004 in
Surface Flatness - Intake Manifold Deck	0.1 mm	0.004 in
Valve Guide Bore - Exhaust	8.01 mm	0.315 in
Valve Guide Bore - Intake	8.01 mm	0.315 in
Valve Guide Installed Height	16.6 mm	0.654 in
Lubrication System		
Oil Capacity - with Filter	3.8 liter	4.0 quarts
Oil Pressure - @ 1850 RPM	207-310 kPa	30-45 PSI
Oil Pump		
Gear Diameter	38.05-38.10 mm	1.498-1.500 in
Gear Pocket - Depth	30.52-30.58 mm	1.202-1.204 in
Gear Pocket - Diameter	38.176-38.226 mm	1.503-1.505 in
Gears Lash	0.094-0.195 mm	0.0037-0.0077 in
Relief Valve-to-Bore Clearance	0.038-0.089 mm	0.0015-0.0035 in
Piston Ring End Gap		
First Compression Ring	0.15-0.30 mm	0.006-0.011 in
Second Compression Ring	0.25-0.45 mm	0.009-0.017 in
Oil Control Ring	0.15-0.65 mm	0.06-0.025 in
Piston Ring to Groove Clearance		
First Compression Ring	0.03-0.065 mm	0.001-0.002 in
Second Compression Ring	0.02-0.055 mm	0.0007-0.002 in
Oil Control Ring	0.01 mm	0.004 in
Piston Ring Thickness		
First Compression Ring	1.175-1.190 mm	0.046-0.047 in
Second Compression Ring	1.475-1.490 mm	0.058 in
Oil Control Ring - Maximum	2.50 mm	0.098 in
Piston		
Piston Diameter - production	98.970-99.008 mm	3.896-3.897 in
Piston Diameter - service limit	98.950 mm	3.895 in
Piston Pin Bore Diameter	23.957-23.962 mm	0.943 in
Piston Ring Groove Width	1.22-1.24 mm	0.048-0.049 in
Piston to Bore Clearance - production	-0.008-0.048 mm	-0.0003-0.0018 in
Piston to Bore Clearance - service limit - Maximum	0.080 mm	0.003 in

Application	Specification	
	Metric	English
Pin		
Piston Pin Clearance to Connecting Rod Bore - Press Fit	-0.004--0.021 mm	-0.0001--0.0008 in
Piston Pin Clearance to Piston Pin Bore	0.002-0.010 mm	0.00008-0.0004 in
Piston Pin Diameter	23.952-23.955 mm	0.942-0.943 in
Piston Pin Length	64.21-64.44 mm	2.57-2.53 in
Valves		
Valve Face Angle	45 degrees	
Valve Seat Angle	46 degrees	
Valve Seat Depth - Intake - from deck face	7.9-8.1 mm	0.311-0.318 in
Valve Seat Depth - Exhaust - from deck face	8.9-9.1 mm	0.350-0.358 in
Valve Seat Width - Intake	1.55-1.80 mm	0.061-0.071 in
Valve Seat Width - Exhaust	1.70-2.0 mm	0.067-0.079 in
Valve Stem-to-Guide Clearance	0.026-0.068 mm	0.0010-0.0027 in
Valve Lifters/Push Rods		
Push Rod Length - Intake	146.0 mm	5.75 in
Push Rod Length - Exhaust	152.5 mm	6.0 in
Valve Springs		
Valve Spring Free Length	48.5 mm	1.89 in
Valve Spring Installed Height	43.2 mm	1.701 in
Valve Spring Load - Closed	320 N 43.2 mm	75 lb 1.701 in
Valve Spring Load - Open	1036 N 32 mm	230 lb 1.260 in
Valve Spring Total Number of Coils	6.55	

Fastener Tightening Specifications

Application	Specification	
	Metric	English
A/C Compressor Bracket Bolt	50 N·m	37 lb ft
Camshaft Position Actuator Assembly Bolt	16 N·m	12 lb ft
Camshaft Position Actuator Magnet Bolt	10 N·m	89 lb in
Camshaft Position Sensor Bolt	10 N·m	89 lb in
Camshaft Thrust Plate Screw	10 N·m	89 lb in
Clutch Pressure Plate Bolt	25 N·m	18 lb ft
Connecting Rod Bearing Cap Bolt		
• First Pass	25 N·m	18 lb ft
• Final Pass	110 degrees	
Coolant Crossover Pipe Bolt	50 N·m	37 lb ft
Coolant Drain Plug	19 N·m	14 lb ft
Coolant Temperature Sensor	20 N·m	15 lb ft
Coolant Vent Pipe Bolt	10 N·m	89 lb in
Crankshaft Balancer Bolt		
• First Pass	70 N·m	52 lb ft
• Final Pass	72 degrees	
Crankshaft Main Bearing Cap Bolt/Stud		
• First Pass	50 N·m	37 lb ft
• Final Pass	77 degrees	
Crankshaft Oil Deflector Nut	25 N·m	18 lb ft
Crankshaft Position Sensor Stud	10 N·m	89 lb in
Cylinder Head Bolt		
• First Pass	60 N·m	44 lb ft

Application	Specification	
	Metric	English
• Final Pass	95 degrees	
Drive Belt Idler Pulley Bolt - 13 mm	30 N·m	22 lb ft
Drive Belt Idler Pulley Bolt - 15 mm	50 N·m	37 lb ft
Drive Belt Tensioner Bolt	50 N·m	37 lb ft
Engine Block Heater/Plug	60 N·m	44 lb ft
Engine Front Cover Bolt	25 N·m	18 lb ft
Engine Lift Bracket Bolt	70 N·m	52 lb ft
Engine Oil Pressure Indicator Switch	16 N·m	12 lb ft
Engine Wiring Harness Bracket Bolt	13 N·m	115 lb in
EVAP Purge Valve Bolt	12 N·m	106 lb in
Exhaust Manifold Bolt	20 N·m	15 lb ft
Exhaust Manifold Heat Shield Bolt	10 N·m	89 lb in
Exhaust Manifold Lower Heat Shield Bolt	10 N·m	89 lb in
Flywheel Bolt	70 N·m	52 lb ft
Front Oil Gallery Plug	33 N·m	24 lb ft
Fuel Injector Rail Bolt	10 N·m	89 lb in
Heated Oxygen Sensor	42 N·m	31 lb ft
Heater Inlet and Outlet Pipe Bolt - 10 mm	10 N·m	89 lb in
Heater Inlet and Outlet Pipe Bolt/Nut - 13 mm	25 N·m	18 lb ft
Ignition Coil Bracket Bolt/Nut/Stud	25 N·m	18 lb ft
Knock Sensor	25 N·m	18 lb ft
Lower Intake Manifold Bolt - Center		
• First Pass	13 N·m	10 lb ft
• Final Pass	20 N·m	15 lb ft
Lower Intake Manifold Bolt - Corner		
• First Pass	13 N·m	10 lb ft
• Final Pass	25 N·m	18 lb ft
Oil Filter Adapter Bolt	25 N·m	18 lb ft
Oil Filter	30 N·m	22 lb ft
Oil Filter Fitting	39 N·m	29 lb ft
Oil Level Indicator Tube Bolt	25 N·m	18 lb ft
Oil Pan Bolt	25 N·m	18 lb ft
Oil Pan Drain Plug	25 N·m	18 lb ft
Oil Pan Side Bolt	50 N·m	37 lb ft
Oil Pan Support Bracket Bolt	50 N·m	37 lb ft
Oil Pump Cover Bolt	10 N·m	89 lb in
Oil Pump Drive Bolt	36 N·m	27 lb ft
Oil Pump Mounting Bolt	41 N·m	30 lb ft
Piston Oil Nozzle Bolt	10 N·m	89 lb in
Rear Oil Gallery Plug - 3/8 inch	33 N·m	24 lb ft
Spark Plug	15 N·m	11 lb ft
Throttle Body Bolt/Nut	10 N·m	89 lb in
Throttle Body Stud	6 N·m	53 lb in
Timing Chain Tensioner Bolt	21 N·m	15 lb ft
Upper Intake Manifold Bolt/Stud	25 N·m	18 lb ft
Valve Lifter Guide Bolt	10 N·m	89 lb in
Valve Lifter Oil Manifold Cover Plate Bolt	25 N·m	18 lb ft
Valve Rocker Arm Bolt	34 N·m	25 lb ft
Valve Rocker Arm Cover Bolt	10 N·m	89 lb in
Water Outlet Bolt/Stud	25 N·m	18 lb ft
Water Pump Bolt	10 N·m	89 lb in

Application	Specification	
	Metric	English
Water Pump Pulley Bolt	25 N·m	18 lb ft

Engine Component Description

The cylinder block is made of cast alloy iron. The cylinder block has 6 cylinders that are arranged in a V shape. There are 3 cylinders in each bank. The cylinder banks are set at a 60 degree angle from each other.

Starting from the front of the engine (accessory belt end), the right bank cylinders are 2, 4, 6. The left bank cylinders are 1, 3, 5.

Four main bearings support the crankshaft. The crankshaft is retained by the bearing caps. The bearing caps are machined with the block for proper alignment and clearances. The main bearing caps are drilled and tapped for the structural oil pan side bolts.

The aluminum cylinder heads have individual intake and exhaust ports for each cylinder. The valve guides are pressed in. The roller rocker arms are located on a pedestal in a slot in the cylinder head. The roller rocker arms are retained on individual threaded bolts.

The crankshaft is forged steel with deep rolled fillets on all 6 crankpins and all 4 main journals. Four steel-backed aluminum bearings are used. The #3 bearing is the end-thrust bearing.

The camshaft is made from a new metal composite design. The camshaft profile is a hydraulic roller design. The camshaft is supported by 4 journals. The camshaft includes an oil pump drive gear.

The pistons are cast aluminum using 2 compression rings and 1 oil control ring. The pistons also have 2 polymer coated patches on the skirt for noise reduction. The piston pin is offset 0.8 mm (0.031 in) towards the major thrust side. This placement allows for a gradual change in thrust pressure against the cylinder wall as the piston travels its path. The pins are made of chromium steel and have a floating fit in the pistons. The pins are retained in the connecting rods by piston pin retainer clips.

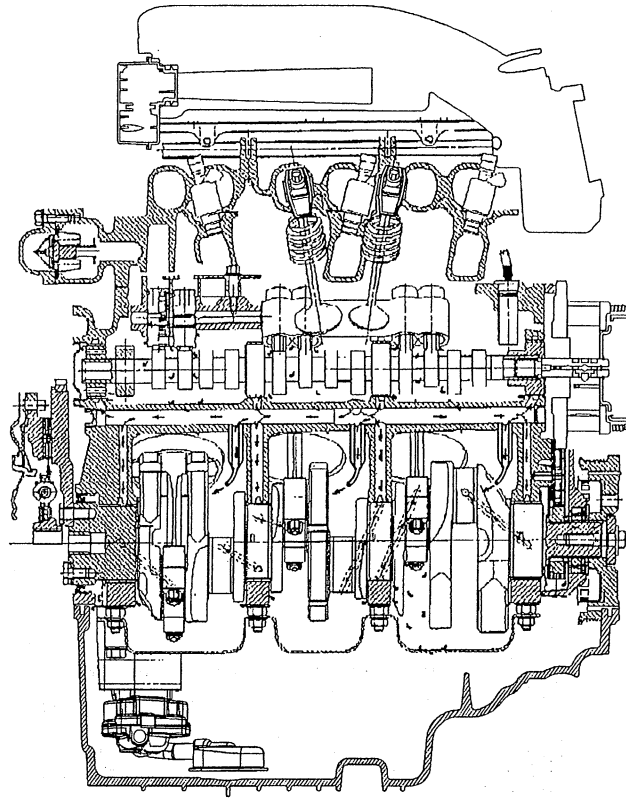
The connecting rods are made of forged steel. Full pressure lubrication is directed to the connecting rods by drilled oil passages from the adjacent main bearing journal.

A roller rocker type valve train is used. Motion is transmitted from the camshaft through the hydraulic roller lifter and from the pushrod to the roller rocker arm. The rocker arm pivots on the needle roller bearings. The rocker arm transmits the camshaft motion to the valve. The rocker arm pedestal is located in a slot in the cylinder head. The rocker arm is retained in the cylinder head by a bolt. The pushrod is located by the rocker arm.

The intake manifold is a 2-piece cast aluminum unit. The intake manifold centrally supports a fuel rail with 6 fuel injectors.

The exhaust manifolds are cast nodular iron.

Lubrication Description



Full pressure lubrication, through a full flow oil filter, is furnished by a gear type oil pump. The oil is drawn up through the pickup screen and the tube. The oil passes through the pump to the oil filter.

The oil filter is a full flow paper element unit. An oil filter bypass is used in order to ensure oil supply during the following conditions:

- On a cold start
- If the filter is plugged
- If the filter develops excessive pressure drop

The bypass is designed to open at 69-83 kPa (10-12 psi).

A priority oil delivery system supplies oil first to the crankshaft journals. The oil from the crankshaft main bearings is supplied to the connecting rod bearings by intersecting the passages drilled in the crankshaft. The passages supply the oil to the crankshaft main bearings and the camshaft bearings through the intersecting vertical drilled holes. The oil passages from the camshaft journals supply oil to the hydraulic lifters, and the piston oil nozzles. The camshaft phaser is fed oil from the number 1 camshaft bearing journal.

The piston oil nozzles lubricate the pistons and cylinder walls. A not-serviceable check valve integrated into the nozzle prevents oil bleed down from the nozzle when the engine is not running.

The hydraulic lifters pump oil up through the pushrods to the rocker arms. The cast dams in the crankcase casting direct the oil that drains back from the rocker arms onto the camshaft lobes. The camshaft chain drive is lubricated by indirect oil splash.

Crankcase Ventilation System Description

A close 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 upstream of the throttle blade to the front of the right rocker arm cover via a formed nylon tube. To reduce the potential of oil pullover into the throttle bore area due the 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 formed nylon tube to the intake manifold.

Drive Belt System Description

The drive belt system consists of the following components:

- The drive belt
- The drive belt tensioner
- The crankshaft balancer pulley
- The accessory drive components
 - The generator
 - The A/C compressor
 - The power steering

The drive belt system uses one belt. The drive belt is thin so that it can bend backwards and has several ribs to match the grooves in the pulleys. The drive belt is 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.

Engine Cooling

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Air Conditioning (A/C) Condenser Tube Clip Screw	6 N·m	53 lb in
Coolant Crossover Pipe Bolt	50 N·m	37 lb ft
Coolant Heater	50 N·m	37 lb ft
Cooling Fan Shroud Bolt	6 N·m	53 lb in
Engine Block Drain Plug	22 N·m	16 lb ft
Engine Mount Strut Bracket Bolt - Upper Radiator Support	50 N·m	37 lb ft
Engine Mount Strut Nut	48 N·m	36 lb ft
Radiator Drain Cock	2 N·m	18 lb in
Radiator Lower Air Deflector Bolt	20 N·m	15 lb ft
Radiator to Condenser Bolt	2.5 N·m	22 lb in
Radiator Upper Mount Bolt	10 N·m	89 lb in
Thermostat Housing Bolt/Stud	25 N·m	18 lb ft
Water Pump Bolt	10 N·m	89 lb in
Water Pump Pulley Bolt	25 N·m	18 lb ft

Cooling System Description and Operation

Cooling Fan Control

The engine cooling fan system consists of 2 electrical cooling fans and 3 fan relays. The relays are arranged in a series/parallel configuration that allows the powertrain control module (PCM) to operate both fans together at low or high speeds. The cooling fans and fan relays receive battery positive voltage from the underhood junction block.

During low speed operation, the PCM supplies the ground path for the low speed fan relay through the low speed cooling fan relay control circuit. This energizes the cooling fan 1 relay coil, closes the relay contacts, and supplies battery positive voltage from the cool fan 1 maxifuse® through the cooling fan motor supply voltage circuit to the left cooling fan. The ground path for the left cooling fan is through the cooling fan relay and the right cooling fan. The result is a series circuit with both fans running at low speed.

During high speed operation the PCM supplies the ground path for the cooling fan 1 relay through the low speed cooling fan relay control circuit. After a 3-second delay, the PCM supplies a ground path for the cooling fan 2 relay and the cooling fan relay through the high speed cooling fan relay control circuit. This energizes the cooling fan relay coil, closes the relay contacts, and provides a ground path for the left cooling fan. At the same time the cooling fan 2 relay coil is energized closing the relay contacts and provides battery positive voltage from the cool fan 2 maxifuse® on the cooling fan motor supply voltage circuit to the right cooling fan. During high speed fan operation, both engine cooling fans have there own ground path. The result is a parallel circuit with both fans running at high speed.

Engine Coolant Indicators

Hot Coolant Temp

The IPC illuminates the hot coolant temperature indicator in the message center when the IPC determines that the coolant temperature is greater than 128°C (262°F).

Coolant Level Control

The engine cooling system contains an engine coolant level module which alerts the driver in the event of a coolant loss. The coolant level module sends out a coolant loss signal over the low coolant level indicator control circuit via the underhood accessory wiring junction block. If the coolant level module reads a low coolant level in the cooling system, the switch closes. The instrument cluster has a coolant level warning indicator.

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.

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

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Battery Hold-Down Retainer Bolt	17 N·m	13 lb ft
Battery Tray Bolt	10 N·m	89 lb in
Engine Harness Ground Nut	25 N·m	18 lb ft
Engine Harness Ground Nut (At Starter)	20 N·m	15 lb ft
Engine Harness Ground Nut (At Generator)	30 N·m	22 lb ft
Generator Bolt/Stud	50 N·m	37 lb ft
Negative Battery Cable Nut	16 N·m	12 lb ft
Negative Battery Cable Ground Terminal to Inner Fender Stud Nut	5 N·m	44 lb in
Positive Battery Cable to Junction Block Nut	10 N·m	89 lb in
Positive Battery Cable Nut	16 N·m	12 lb ft
Starter Bolt	40 N·m	30 lb ft
Starter Solenoid "BAT" Terminal Nut	17 N·m	13 lb ft
Starter Solenoid "S" Terminal Nut	3 N·m	27 lb in
Transaxle Converter Cover Bolt	10 N·m	89 lb in
Underhood Electrical Center Bolt	10 N·m	89 lb in

Battery Usage

Application	Specification
Cold Cranking Amperes	600 A
Amp Hours	60 A/H
Reserve Capacity Rating	115 min
Replacement Battery Number	34-6YR

Generator Usage

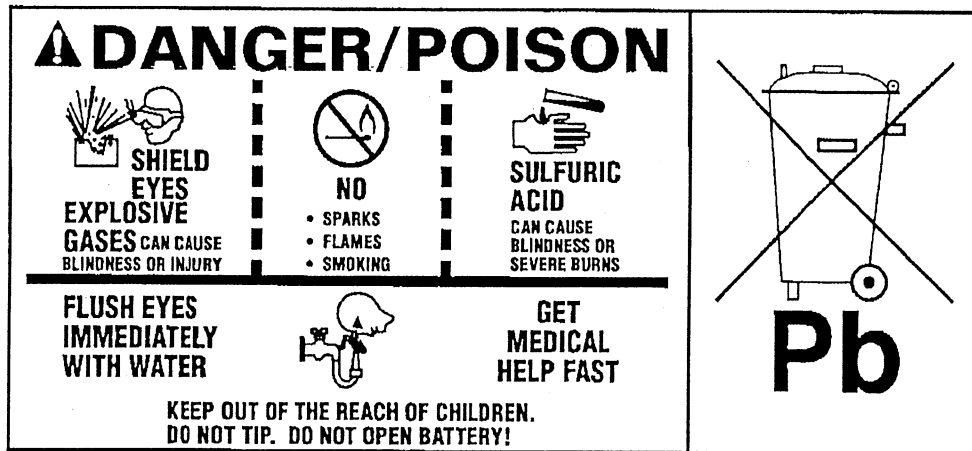
RPO LZ9	
Application	Specification
Generator Model	Valeo TG13
Rated Output	125 A
Load Test Output	87 A

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] starter motors are [non-]repairable starter motors. They have 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 protects the armature from excessive speed until the switch is opened.

When the ignition switch is released from the START position, crank 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 BOSCH generator is electrically similar to earlier models. The generator features the following major components:

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

Regulator

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

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

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

Circuit Description

The generator provides voltage to operate the vehicle's electrical system and to charge its battery. A magnetic field is created when current flows through the rotor. This field rotates as the rotor is driven by the engine, creating an AC voltage in the stator windings. The AC voltage is converted to DC by the rectifier bridge and is supplied to the electrical system at the battery terminal.

When the engine is running, the generator turn-on signal is sent to the generator from the PCM, turning on the regulator. The generator's voltage regulator controls current to the rotor, thereby controlling the output voltage. The rotor current is proportional to the electrical pulse width supplied by the regulator. When the engine is started, the regulator senses generator rotation by detecting AC voltage at the stator through an internal wire. Once the engine is running, the regulator varies the field current by controlling the pulse width. This regulates the generator output voltage for proper battery charging and electrical system operation. The generator F terminal is connected internally to the voltage regulator and externally to the PCM. When the voltage regulator detects a charging system problem, it grounds this circuit to signal the PCM that a problem exists. The PCM monitors the generator field duty cycle signal circuit. The system voltage sense circuit receives B+ voltage that is Hot At All Times through the DIM fuse in the rear fuse block. This voltage is used by the regulator as the reference for system voltage control.

When the ignition switch is turned to RUN, the charge indicator turns on for a few seconds (bulb check), then turns off. The powertrain control module (PCM) commands the bulb of the charge indicator on by sending a Class 2 serial data line message to the instrument panel cluster when the PCM detects a charging system problem.

Engine Controls

Engine Controls – 3.9L (LZ9)

Ignition System Specifications

Application	Specification	
	Metric	English
Firing Order	1-2-3-4-5-6	
Spark Plug Gap	1.02 mm	0.040 in
Spark Plug Torque	15 N·m	11 lb ft
Spark Plug Type	GM P/N 12591131 AC Delco #41-100	
Spark Plug Wire Resistance	4,060 ohms per meter (1,237 ohms per ft)	

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Accelerator Pedal Bolt	10 N·m	89 lb in
Air Cleaner Bolt	10 N·m	89 lb in
Air Cleaner Cover Screw	4 N·m	35 lb in
Air Cleaner Outlet Duct Clamp	2 N·m	18 lb in
Camshaft Position (CMP) Sensor Bolt	10 N·m	89 lb in
Crankshaft Position (CKP) Sensor Stud	10 N·m	89 lb in
Engine Coolant Temperature (ECT) Sensor	20 N·m	15 lb ft

Application	Specification	
	Metric	English
Evaporative Emission (EVAP) Canister Nut	9 N·m	80 lb in
Evaporative Emission (EVAP) Canister Purge Valve Bolt	25 N·m	12 lb ft
Fuel/EVAP Pipe Clip Nut	20 N·m	15 lb ft
Fuel Fill Hose Clamp	2.5 N·m	22 lb in
Fuel Fill Pipe to Fuel Fill Pocket Bolt	2.5 N·m	22 lb in
Fuel Injector Harness Connector Bracket Bolt	8 N·m	71 lb in
Fuel Pipe Bracket Bolt	25 N·m	18 lb ft
Fuel Rail Bolt	10 N·m	89 lb in
Fuel Tank Strap Bolt	47 N·m	35 lb ft
Heated Oxygen Sensors (HO2S)	42 N·m	31 lb ft
Heater Inlet and Outlet Pipe Clip Nut	10 N·m	89 lb in
Ignition Coil Bolt/Nut/Stud	25 N·m	15 lb ft
Intake Manifold Tuning Valve Bolt	10 N·m	89 lb in
Knock Sensor (KS)	25 N·m	15 lb ft
Manifold Absolute Pressure (MAP) Sensor Bracket Bolt	25 N·m	18 lb ft
Mass Air Flow (MAF)/Intake Air Temperature (IAT) Sensor Bolt	10 N·m	89 lb in
Spark Plug	15 N·m	11 lb ft
Throttle Body Bolt/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), it 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 it is determined that the cause of the condition is the type of fuels used, repairs may not be covered by your warranty.

Some gasoline 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.

E85 Flex Fuel Description

E85 compatible vehicles no longer use an alcohol sensor to determine and adjust for the alcohol content of the fuel in the tank. Instead, the vehicle calculates the alcohol content of the fuel through measured adjustments.

The ethanol calculation occurs with the engine running after a refueling event has been detected via a measured change in the fuel level sender output. The virtual flex fuel sensor (V-FFS) algorithm temporarily closes the canister purge valve for a few seconds and monitors information from the closed loop fuel trim system to calculate the ethanol content. This logic executes several times until the ethanol calculation is deemed to be stable. This may take several minutes under low fuel flow conditions such as idle, or a shorter time during higher fuel flow, off-idle conditions.

Air-fuel ratios and the corresponding ethanol percentage are updated following each purge-off sequence. the fuel alcohol content percentage value can be read on a scan tool.

When an E85 compatible vehicle is built, an ECM or PCM replaced, or if the learned alcohol content has been reset with a scan tool the fuel system will need to contain ASTM gasoline with 10 percent or less ethanol content.

A minimum of 7.5 Liters (2 gallons) must be put in the tank in order for the vehicle to recognize a re-fueling event. It is not necessary to turn the ignition off in order to have the re-fueling event recognized; however local safety regulations should be followed.

After the re-fueling event, the system registers the amount of fuel that was added, relative to the amount that was in the tank. Reading fuel trim and oxygen (O2) sensor activity, the system determines if the fuel added was either ASTM Gasoline or ASTM E85. Based on that determination, the system adjusts to the expected alcohol mix in the fuel tank, and then the fuel trim and O2 sensor activity fine tunes the adjustments. The system must remain in closed loop in order for this adjustment to occur. Numerous short trips after switching from gasoline to E85, or E85 to gasoline, can result in driveability symptoms due to the inability of the system to adjust for fuel composition by not attaining closed loop operation.

Exhaust System

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Catalytic Converter to Exhaust Manifold Nut	35 N·m	26 lb ft
Catalytic Converter Hanger Bolt	35 N·m	26 lb ft
Catalytic Converter to Muffler Nut	34 N·m	25 lb ft
Exhaust Crossover Heat Shield Bolt	10 N·m	89 lb in
Exhaust Crossover Pipe Nut (RPO LZ9)	20 N·m	15 lb ft
Exhaust Crossover Pipe Stud/Nut (RPO LX9)	25 N·m	18 lb ft
Exhaust Hanger Bolt	35 N·m	26 lb ft
Exhaust Manifold Bolt (RPO LZ9)	20 N·m	15 lb ft
Exhaust Manifold to Catalytic Converter Nut	35 N·m	26 lb ft
Exhaust Manifold Heat Shield Bolt	10 N·m	89 lb in
Exhaust Manifold Nut (RPO LX9)	16 N·m	12 lb ft
Heated Oxygen Sensor (HO2S)	42 N·m	31 lb ft
Tail Pipe Hanger Bolt	35 N·m	26 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.

The exhaust system may be comprised of the following components:

- Exhaust manifold
- Exhaust pipes
- Catalytic converters
- Exhaust muffler
- Exhaust resonator, if equipped
- Exhaust tail pipe, if equipped
- Exhaust hangers
- Exhaust heat shields

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.

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 – 4T65E

Transmission General Specifications

Name	Hydra-matic 4T65-E
RPO Codes	M15
Production Location	Warren, MI
Vehicle Platform (Engine/Transmission) Usage	U
Transaxle Drive	Transverse Mounted Front Wheel Drive
1st Gear Ratio	2.921:1
2nd Gear Ratio	1.568:1
3rd Gear Ratio	1.000:1
4th Gear Ratio	0.705:1
Reverse	2.385:1
Torque Converter Size (Diameter of Torque Converter Turbine)	245 mm
Pressure Taps	Line Pressure
Transaxle Fluid Type	DEXRON® VI
Transaxle Fluid Capacity (Approximate)	Bottom Pan Removal: 7.0 L (7.4 qts) Complete Overhaul: 9.5 L (10.0 qts) Dry: 12.7 L (13.4 qts)
Transaxle Type: 4	Four Forward Gears
Transaxle Type: T	Transverse Mount
Transaxle Type: 65	Product Series
Transaxle Type: E	Electronic Controls
Chain Ratios (Designates Number of Teeth on the Drive/Driven Sprockets)	35/35
Final Drive Ratios	3.29
Overall Final Drive Ratios	3.29
Position Quadrant	P, R, N, D, 3, 2, 1
Case Material	Die Cast Aluminum
Transaxle Weight Dry	87.9 kg (194.2 lbs)
Transaxle Weight Wet	97.0 kg (214.4 lbs)
Maximum Trailer Towing Capacity	907 kg (2000 lbs)
Maximum Gross Vehicle Weight (GVW)	2903 kg (6,400 lbs)

Fastener Tightening Specifications

Application	Specification	
	Metric	English
2-1 Servo to Case	25 N·m	18 lb ft
Accumulator Cover to Case	12 N·m	106 lb in
Case Cover to Case	12 N·m	106 lb in
Case Cover to Case	12 N·m	106 lb in
Case Cover to Driven Sprocket Support	25 N·m	18 lb ft
Case Cover to Driven Sprocket Support (TORX®)	12 N·m	106 lb in
Case to Drive Sprocket Support	25 N·m	18 lb ft
Case Extension to Case	36 N·m	26 lb ft
Case Side Cover to Case	25 N·m	18 lb ft
Case Side Cover to Case (Stud)	25 N·m	18 lb ft
Case Side Cover to Case (TORX® Special)	25 N·m	18 lb ft
Detent Spring to Case Cover	12 N·m	106 lb in
Forward Band Servo Cover to Case	12 N·m	106 lb in
Manual Shaft/Detent Nut	32 N·m	23 lb ft
Oil Cooler Quick Connector	32 N·m	23 lb ft
Oil Cooler Quick Connector	32 N·m	23 lb ft
Oil Pan to Case	14 N·m	10 lb ft
Oil Pressure Test Hole Plug	12 N·m	106 lb in
Pump Body to Case	16 N·m	11 lb ft
Pump Cover to Case Cover	12 N·m	106 lb in
Pump Cover to Pump Body	8 N·m	70 lb in
Speed Sensor to Case	12 N·m	106 lb in
TFP Switch to Case	16 N·m	11 lb ft
TFP Switch to Case Cover	12 N·m	106 lb in
TFP Switch to Valve Body	8 N·m	70 lb in
Transaxle Brace to Engine Bolts	43 N·m	32 lb ft
Transaxle Brace to Transaxle Bolts	43 N·m	32 lb ft
Transaxle Mount Brace to Transaxle Bolts	95 N·m	70 lb ft
Transaxle Mount Bracket Bolts	95 N·m	70 lb ft
Transaxle Mount Lower Nuts to Transaxle Mount Frame Bracket	47 N·m	35 lb ft
Transaxle Mount to Transaxle Mount Bracket Nuts	47 N·m	35 lb ft
Transaxle Mount to Frame Nuts	47 N·m	35 lb ft
Transaxle Mount Upper Nuts	47 N·m	35 lb ft
Valve Body to Case	12 N·m	106 lb in
Valve Body to Case	12 N·m	106 lb in
Valve Body to Case Cover	12 N·m	106 lb in
Valve Body to Case Cover	12 N·m	106 lb in
Valve Body to Case Cover (TORX®)	12 N·m	106 lb in
Valve Body to Driven Sprocket Support	25 N·m	18 lb ft

Fluid Capacity Specifications

Application	Specification	
	Metric	English
Bottom Pan Removal	7.0 L	7.4 qt
Complete Overhaul	9.5 L	10.0 qt
Dry	12.7 L	13.4 qt

Transmission Component and System Description

Transmission General Description

The 4T65-E is a fully automatic front wheel drive electronically controlled transmission. The 4T65-E provides four forward ranges including overdrive. The PCM controls shift points by means of two shift solenoids. A vane-type oil pump supplies the oil pressure. The PCM regulates oil pressure by means of a pressure control solenoid valve.

All vehicles equipped with a 4T65-E transmission have an electronically controlled capacity clutch (ECCC) system. In the ECCC system, the pressure plate does not fully lock to the torque converter cover. It is instead, precisely controlled to maintain a small amount of slippage between the engine and the turbine, reducing driveline torsional disturbances.

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

- P -- Park position prevents the vehicle from rolling either forward or backward. For safety reasons, use the parking brake in addition to the park position.
- R -- Reverse allows the vehicle to be operated in a rearward direction.
- N -- Neutral allows the engine to be started and operated while driving the vehicle. If necessary, you may select this position in order to restart the engine with the vehicle moving.
- D -- Overdrive is used for all normal driving conditions. Overdrive provides four gear ratios plus a converter clutch operation. Depress the accelerator in order to downshift for safe passing.
- 3 -- Drive position is used for city traffic and hilly terrain. Drive provides three gear ranges and drive range prevents the transmission from operating in fourth gear. Depress the accelerator in order to downshift.
- 2 -- Manual Second provides two gear ratios under most operating conditions. Manual Second provides acceleration and engine braking. Select this range at any vehicle speed, but the transmission will not downshift into Second gear until the vehicle speed drops below approximately 100 km/h (62 mph)
- 1 -- Manual Lo provides maximum engine braking. You may also select this range at any vehicle speed, but the transmission will not downshift into First gear until the vehicle speed drops below approximately 60 km/h (37 mph).

Mechanical Components

The mechanical components of this unit are as follows:

- A torque converter with an Electronically Controlled Capacity Clutch (ECCC)
- A drive link assembly
- 4 multiple disk clutch assemblies: Input, Second, Third and Fourth
- 3 friction bands: Forward band, 2/1 band and Reverse band
- 2 planetary gear sets: Input and Reaction
- 3 one-way clutches: a roller clutch (1-2 support) and 2 sprag clutches (Third and Input)
- A final drive and differential assembly
- A control valve assembly
- A vane type oil pump

The electrical components of this unit are as follows:

- 2 shift solenoid valves
- A torque converter clutch pulse width modulation (TCC PWM) solenoid valve
- A pressure control (PC) solenoid valve
- An automatic transmission fluid temperature (TFT) sensor
- 2 speed sensors: input shaft and vehicle speed sensors
- An automatic transmission fluid pressure (TFP) manual valve position switch
- Either an Internal Mode Switch or an exterior-mounted Transmission Range Switch.
- An automatic transmission (A/T) wiring harness assembly

Adapt Function

The 4T65-E transmission uses a line pressure control system, that has the ability to adapt line pressure to compensate for normal wear of the following parts:

- The clutch fiber plates
- The springs and seals
- The apply bands

The PCM maintains information for the following transmission adaptive systems:

Upshift Adapts (1-2, 2-3 and 3-4)

The PCM monitors the automatic transmission input shaft speed (AT ISS) sensor and the vehicle speed sensor (VSS) in order to determine when an upshift has started and completed. The PCM measures the time for the upshift. If the upshift time is longer than a calibrated value, then the PCM will adjust the current to the pressure control (PC) solenoid valve to increase the line pressure for the next shift in the same torque range. If the upshift time is shorter than the calibrated value, then the PCM will decrease the line pressure for the next shift in the same torque range.

Steady State Adapts

The PCM monitors the AT ISS sensor and the VSS after an upshift in order to determine the amount of clutch slippage. If excessive slippage is detected, then the PCM will adjust the current to the PC solenoid valve in order to increase the line pressure to maintain the proper gear ratio for the commanded gear.

The TAP information is divided into 13 units, called cells. The cells are numbered 4 through 16. Each cell represents a given torque range. TAP cell 4 is the lowest adaptable torque range and TAP cell 16 is the highest adaptable torque range. It is normal for TAP cell values to display zero or negative numbers. This indicates that the PCM has adjusted line pressure at or below the calibrated base pressure.

Automatic Transmission Shift Lock Control Description

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

- The automatic transmission shift lock control solenoid.
- The automatic transmission shift lock control switch.
- The body control module (BCM).
- The powertrain control module (PCM).

With the ignition in the ON position, battery positive voltage is supplied 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 body control module (BCM) provides a ground for the automatic transmission shift lock control solenoid when the transmission is in the PARK position. The body control module (BCM) receives the transmission gear position information via class2 serial data from the powertrain control module (PCM). This causes the automatic transmission shift lock control solenoid to energize and lock the shift lever in the PARK position. When the driver presses the brake pedal, the contacts in the automatic transmission shift lock control switch open. This causes the automatic transmission shift lock control solenoid to release. This allows the shift lever to move from the PARK position. The body control module (BCM) turns off the automatic transmission shift lock control solenoid ground circuit when the transmission is out of 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

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

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

2007 Chevrolet Truck Uplander STANDARD EQUIPMENT

Rel. Only RPO Code	Description	Front-Wheel Drive Regular Wheelbases		Front-Wheel Drive Extended Wheelbases						
		CU1416	CU1416	LS	LS	LS	LS	LS	LS	LS
	1. Equipment Group 1LS available on the CU1416 Model and Requires a Fleet, Government or Commercial order type.	1LS	1LS	1LS	1LS	1LS	1LS	1LS	1LS	1LS
	2. Equipment Group 1FL available on the CU1416 Model and Requires a Fleet, Government or Commercial order type.	1FL	1FL	1FL	1FL	1FL	1FL	1FL	1FL	1FL
	3. Equipment Group 1LS, 2FL, 1LT, 2LT and 3LT available on the CU12216 Model.									
	4. Equipment Group 1FL available on the CU12216 Model and Requires a Fleet, Government or Commercial order type.									
	Thief-deterrent system, Pass-Key III	S	S	S	S	S	S	S	S	S
	Visors, driver and front passenger vanity mirrors	S	S	S	S	S	S	S	S	S
	Windows, power front with driver Express-Down	S	S	S	S	S	S	S	S	S
	Windows, manual rear quarter vent	S	S	S	S	S	S	S	S	S
	Antenna, fixed-mast	S	S	S	S	S	S	S	S	S
	Bumpers, front and rear, 5 mph	S	S	S	S	S	S	S	S	S
	Daytime Running Lamps	S	S	S	S	S	S	S	S	S
	Door, manual-sliding driver-side	S	S	S	S	S	S	S	S	S
	Door, manual-sliding passenger-side	S	S	S	S	S	S	S	S	S
	Door handles, Black	S	S	S	S	S	S	S	S	S
	Glass, Solar-Ray light-tinted	S	S	S	S	S	S	S	S	S
	Headlamps, halogen composite with automatic exterior lamp control	S	S	S	S	S	S	S	S	S
	Mirrors, outside power-adjustable, Black, manual-folding	S	S	S	S	S	S	S	S	S
	Moldings, Black body-side	S	S	S	S	S	S	S	S	S
	Tire, compact spare, includes underbody carrier and host	S	S	S	S	S	S	S	S	S
	Tires, P225/60R17 all-season, blackwall	S	S	S	S	S	S	S	S	S
	Wheels, 17" (43.2 cm) steel with bolt-on wheel covers	S	S	S	S	S	S	S	S	S
	Wipers, front intermittent	S	S	S	S	S	S	S	S	S
	Alternator, 125 amps	S	S	S	S	S	S	S	S	S
	Battery, maintenance-free with rundown protection	S	S	S	S	S	S	S	S	S
	Brakes, 4-wheel antilock, 4-wheel disc	S	S	S	S	S	S	S	S	S
	Drivetrain, front-wheel drive	S	S	S	S	S	S	S	S	S

2007 Chevrolet Truck Uplander STANDARD EQUIPMENT

Rel. Only RPO Code	Description	Front-Wheel Drive Regular Wheelbases		Front-Wheel Drive Extended Wheelbases						
		CU1416	CU1416	LS	LS	LS	LS	LS	LS	LS
	1. Equipment Group 1LS available on the CU1416 Model.	1LS	1LS	1LS	1LS	1LS	1LS	1LS	1LS	1LS
	2. Equipment Group 1FL available on the CU1416 Model and Requires a Fleet, Government or Commercial order type.	1FL	1FL	1FL	1FL	1FL	1FL	1FL	1FL	1FL
	3. Equipment Group 1LS, 2FL, 1LT, 2LT and 3LT available on the CU12216 Model.									
	4. Equipment Group 1FL available on the CU12216 Model and Requires a Fleet, Government or Commercial order type.									
	Engine, 3.9L V6 SFI (240 hp [178.9 kW] @ 5000 rpm, 240 lb-ft of torque [324 N-m] @ 4800 rpm)	S	S	S	S	S	S	S	S	S
	Exhaust, stainless-steel	S	S	S	S	S	S	S	S	S
	StabilTrak, stability control system	A ¹	A ¹	S	S	S	S	S	S	S
	1. Requires (NW9) traction control	S	S	S	S	S	S	S	S	S
	Steering, power, rack-and-pinion	S	S	S	S	S	S	S	S	S
	Suspension, Sport Ride	S	S	S	S	S	S	S	S	S
	Traction control, all-speed	A ¹	A ¹	S ²	S ²	S ²	S ²	S ²	S ²	S ²
	1. Required with (LJ4) StabilTrak or available separately. When (R4E) StabilTrak is selected it overrides.									
	Transmission, 4-speed automatic, electronically controlled with overdrive	S	S	S	S	S	S	S	S	S

S = Standard Equipment A = Available - (dash) = Not Available D = ADI 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	Front-wheel Drive Regular Wheelbase CU1416				Front-wheel Drive Extended Wheelbase CU2216			
			LS	LS Fleet 1FL	LS3	LS3 Fleet 1FL3	Cargo 2PL	LT	LT Fleet 2LT	LT3 3LT
	AK5	Air bags, dual-stage frontal, driver and right-front passenger 1 - Always use safety belts and the correct child restraints for your child's age and size, even in vehicles equipped with air bags. Children are safer when properly secured in a rear seat. See the vehicle's Owner's Manual and child safety seat instructions for more safety information.	S	S	S	S	S	S	S	S
	C60	Air conditioning, single-zone manual	S	S	S	S	S	S	S	S
	U58	Audio system, AM/FM stereo with CD player and MP3 playback, seek-and-scan, digital clock, auto-tone control, Radio Data System (RDS), automatic volume, TheftLock and premium front and rear coaxial speakers 1 - Upgradeable to (U59) AM/FM stereo with 6-disc in-dash CD changer and MP3 playback or (U30) AM/FM stereo with 6-disc in-dash CD player and multimedia navigation.	S	S	S	S	S	S	S	S
	UQ5	Audio system feature, 4-speaker system	S	S	S	S	S	S	S	S
	UQ3	Audio system feature, 8-speaker system	S	S	S	S	S	S	S	S
		Cup holders, dual front, quad second row and single third row	S	S	S	S	S	S	S	S
		Door locks, rear child security	S	S	S	S	S	S	S	S
		Door locks, power programmable with lockout protection and delayed locking	S	S	S	S	S	S	S	S

Free Flow RPO Code	Ref. Only RPO Code	Description	Front-wheel Drive Regular Wheelbase CU1416				Front-wheel Drive Extended Wheelbase CU2216			
			LS	LS Fleet 1FL	LS3	LS3 Fleet 1FL3	Cargo 2PL	LT	LT Fleet 2LT	LT3 3LT
		1 - Equipment Group 1LS available on the CU1416 Model. 2 - Equipment Group 1FL available on the CU1416 Model and Requires a Fleet, Government or Commercial order type. 3 - Equipment Group 1LS, 2PL, 1LT, 2LT and 3LT available on the CU2216 Model. 4 - Equipment Group 1FL available on the CU2216 Model and Requires a Fleet, Government or Commercial order type.								
	UH8	Instrumentation with coolant temperature, trip odometer and tachometer	S	S	S	S	S	S	S	S
		LATCH system (Lower Anchors and Top tethers for Children), for child safety seats	S	S	S	S	S	S	S	S
		Lighting, interior, overhead second row	S	S	S	S	S	S	S	S
	UE1	OnStar, 1-year of Safe and Sound plan. Includes Automatic Notification of Air Bag Deployment, Stolen Vehicle Location Assistance, Emergency Services, Roadside Assistance, Remote Door Unlock, OnStar Vehicle Diagnostics, Hands-Free Calling, Accident Assist and Remote Horn & Lights 1 - OnStar services require vehicle electrical system (including battery), vehicle service tags, satellite signals to be installed and operating for features to function properly. OnStar acts as a link to OnStar's network of service providers. OnStar Vehicle Diagnostics available on most 2004 and newer GM vehicles. Diagnostics available on vehicles by model. Visit onstar.com for system limitations and details.	S	S	S	S	S	S	S	S
		Power outlet, front auxiliary, 12-volt	S	S	S	S	S	S	S	S
	ABA	Seats, 7-passenger, front bucket, removable second row modular bucket seats (2 without armrests) and third row 50/50 split-folding bench 1 - Includes single integral child seat.	S	S	S	S	S	S	S	S
		Steering column, tilt-wheel	S	S	S	S	S	S	S	S
	N30	Steering wheel, urethane	S	S	S	S	S	S	S	S
		Storage, open, located below instrument panel	S	S	S	S	S	S	S	S

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

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

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

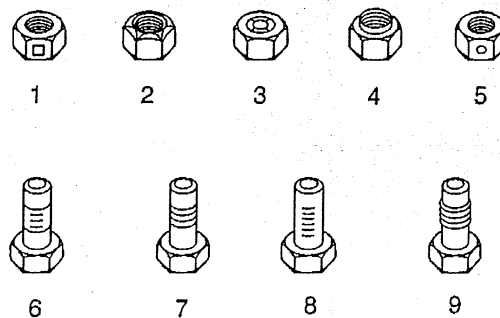
These fasteners accomplish the thread interface by a designed distortion or deformation in the fastener.

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

Fasteners

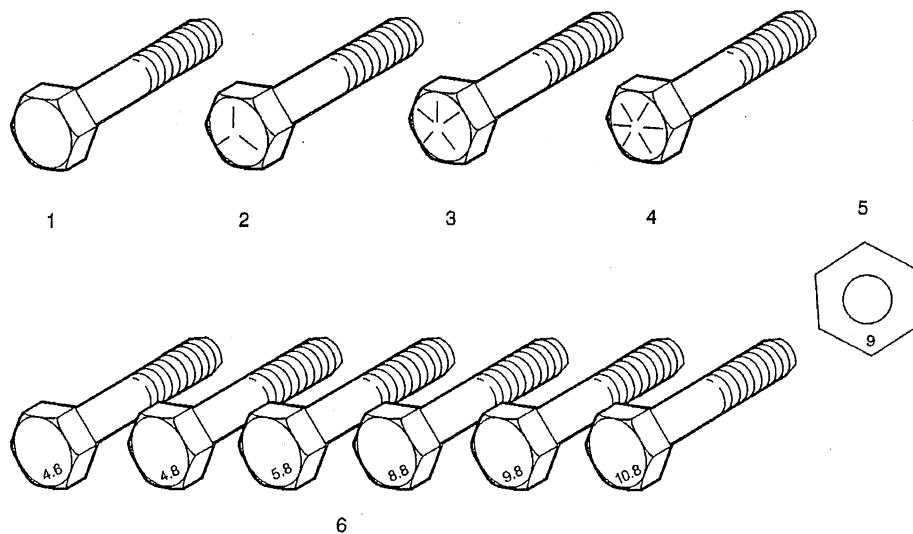
Metric Fasteners

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.

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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

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

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/s ²	0.3048	m/s ²
In/s ²	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/m ²

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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

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

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

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

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

2007 Chevrolet Truck Uplander

EQUIPMENT GROUPS

S = Standard Equipment A = Available - (dashes) = Not Available D = ADI 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	Front Wheel Drive Regular Wheelbase CUI11416		Front Wheel Drive Extended Wheelbase CUI2216					
A/J7		<p>1. Equipment Group 1LS available on this CUI1416 Model.</p> <p>2. Equipment Group 1FL available on Fleet, Government or Commercial order type.</p> <p>3. Equipment Groups 1LS, 2FL, 1LT, CUI1416 and 1LS available on the CUI1416 Model.</p> <p>4. Equipment Group 1FL available on this CUI2216 Model and Required on Fleet, Government or Commercial order type.</p> <p>Air bags - dual-stage frontal and side-impact, driver and right-front passenger.</p> <p>1 - Always use safety belts and the correct child restraint for your child's age and size, even in vehicles equipped with air bags. Children are safer when properly secured in a vehicle seat than when in a vehicle's Owner's Manual and child safety seat instructions for more safety information.</p> <p>2 - Included and only available with A/CUI1416 Model and only available with Accessory, SLN-LiN power seat, (V36) Mobility Prep Package, Empty-seat, (ECU) Forward Rail System (V36) and (ECU) Forward Rail System safety with OnStar. Always use safety belts and the correct child restraints for your child's age and size, even in vehicles equipped with air bags. Children are safer when properly secured in a vehicle seat than when in a vehicle's Owner's Manual and child safety seat instructions for more safety information.</p> <p>3 - Included and only available with Accessory, SLN-LiN power seat or (V36) Mobility Prep Package, Empty-seat, Always use safety belts and the correct child restraint for your child's age and size, even in vehicles equipped with air bags. Children are safer when properly secured in a vehicle seat than when in a vehicle's Owner's Manual and child safety seat instructions for more safety information.</p>	1LS (143)	1LS Front (143)	1LS (143)	1LS Front (143)	Cargo (173)	LT (173)	LT (173)	LT (173)

2007 Chevrolet Truck Uplander

EQUIPMENT GROUPS

From-Wheel Drive

From-Wheel Drive Extended W

Group 11S available on Regular Wheelbase	CU12216
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Code					
the CU11416 Model:					
2 - Equipment Group 1E1 available on					

Order Type	ILS ¹	ILS ²	ILS ³	ILS ⁴	ILS ⁵	ILS ⁶	ILS ⁷	ILS ⁸	ILS ⁹	ILS ¹⁰	ILS ¹¹	ILS ¹²	ILS ¹³	ILS ¹⁴	ILS ¹⁵	ILS ¹⁶	ILS ¹⁷	ILS ¹⁸	ILS ¹⁹	ILS ²⁰	ILS ²¹	ILS ²²	ILS ²³	ILS ²⁴	ILS ²⁵	ILS ²⁶	ILS ²⁷	ILS ²⁸	ILS ²⁹	ILS ³⁰	ILS ³¹	ILS ³²	ILS ³³	ILS ³⁴	ILS ³⁵	ILS ³⁶	ILS ³⁷	ILS ³⁸	ILS ³⁹	ILS ⁴⁰	ILS ⁴¹	ILS ⁴²	ILS ⁴³	ILS ⁴⁴	ILS ⁴⁵	ILS ⁴⁶	ILS ⁴⁷	ILS ⁴⁸	ILS ⁴⁹	ILS ⁵⁰	ILS ⁵¹	ILS ⁵²	ILS ⁵³	ILS ⁵⁴	ILS ⁵⁵	ILS ⁵⁶	ILS ⁵⁷	ILS ⁵⁸	ILS ⁵⁹	ILS ⁶⁰	ILS ⁶¹	ILS ⁶²	ILS ⁶³	ILS ⁶⁴	ILS ⁶⁵	ILS ⁶⁶	ILS ⁶⁷	ILS ⁶⁸	ILS ⁶⁹	ILS ⁷⁰	ILS ⁷¹	ILS ⁷²	ILS ⁷³	ILS ⁷⁴	ILS ⁷⁵	ILS ⁷⁶	ILS ⁷⁷	ILS ⁷⁸	ILS ⁷⁹	ILS ⁸⁰	ILS ⁸¹	ILS ⁸²	ILS ⁸³	ILS ⁸⁴	ILS ⁸⁵	ILS ⁸⁶	ILS ⁸⁷	ILS ⁸⁸	ILS ⁸⁹	ILS ⁹⁰	ILS ⁹¹	ILS ⁹²	ILS ⁹³	ILS ⁹⁴	ILS ⁹⁵	ILS ⁹⁶	ILS ⁹⁷	ILS ⁹⁸	ILS ⁹⁹	ILS ¹⁰⁰
Order Type	ILS ¹	ILS ²	ILS ³	ILS ⁴	ILS ⁵	ILS ⁶	ILS ⁷	ILS ⁸	ILS ⁹	ILS ¹⁰	ILS ¹¹	ILS ¹²	ILS ¹³	ILS ¹⁴	ILS ¹⁵	ILS ¹⁶	ILS ¹⁷	ILS ¹⁸	ILS ¹⁹	ILS ²⁰	ILS ²¹	ILS ²²	ILS ²³	ILS ²⁴	ILS ²⁵	ILS ²⁶	ILS ²⁷	ILS ²⁸	ILS ²⁹	ILS ³⁰	ILS ³¹	ILS ³²	ILS ³³	ILS ³⁴	ILS ³⁵	ILS ³⁶	ILS ³⁷	ILS ³⁸	ILS ³⁹	ILS ⁴⁰	ILS ⁴¹	ILS ⁴²	ILS ⁴³	ILS ⁴⁴	ILS ⁴⁵	ILS ⁴⁶	ILS ⁴⁷	ILS ⁴⁸	ILS ⁴⁹	ILS ⁵⁰	ILS ⁵¹	ILS ⁵²	ILS ⁵³	ILS ⁵⁴	ILS ⁵⁵	ILS ⁵⁶	ILS ⁵⁷	ILS ⁵⁸	ILS ⁵⁹	ILS ⁶⁰	ILS ⁶¹	ILS ⁶²	ILS ⁶³	ILS ⁶⁴	ILS ⁶⁵	ILS ⁶⁶	ILS ⁶⁷	ILS ⁶⁸	ILS ⁶⁹	ILS ⁷⁰	ILS ⁷¹	ILS ⁷²	ILS ⁷³	ILS ⁷⁴	ILS ⁷⁵	ILS ⁷⁶	ILS ⁷⁷	ILS ⁷⁸	ILS ⁷⁹	ILS ⁸⁰	ILS ⁸¹	ILS ⁸²	ILS ⁸³	ILS ⁸⁴	ILS ⁸⁵	ILS ⁸⁶	ILS ⁸⁷	ILS ⁸⁸	ILS ⁸⁹	ILS ⁹⁰	ILS ⁹¹	ILS ⁹²	ILS ⁹³	ILS ⁹⁴	ILS ⁹⁵	ILS ⁹⁶	ILS ⁹⁷	ILS ⁹⁸	ILS ⁹⁹	ILS ¹⁰⁰

2LT and 3LT available on the
C19334E Model

[illegible]

Free Flow RPO Code	Ref. Only RPO Code	Description	Front Wheel Drive Regular Wheelbase CU1416				Front Wheel Drive Extended Wheelbase CU12216			
		1. Equipment Group 1LS available on the CU1416 Model. 2. Equipment Group 1FL available on the CU1416 Model and Requires a Fleet, Government or Commercial order type. 3. Equipment Groups 1LS, 2FL, 1LT, 2LT and 3LT available on the CU12216 Model. 4. Equipment Group 1FL available on the CU12216 Model and Requires a Fleet, Government or Commercial order type.	LS 1LS ¹	LS Fleet 1FL ²	LS 1LS ¹	LS Fleet 1FL ²	LS 1LS ¹	LS Fleet 1FL ²	LS 1LS ¹	LS Fleet 1FL ²
	DTE	Cargo convenience center, rear removable, includes rear mesh cargo partition 1. Included and only available with (PCN) Storage and Organizer Package, (PCN) Storage and Organizer Power Seat, or (V30) Mobility Prep Package, family-use are ordered. 2. Deleted when (AQW) Regular power seat or (V30) Mobility Prep Package, family-use are ordered.	-	-	-	-	-	-	A ¹	■ ²
	AP8	Cargo net, rear 1. Deleted when (PCN) Storage and Organizer Package is ordered.	-	-	-	-	-	-	■ ¹	-
	Z10	Cargo Van Package, includes (BAD) Equipment Modification, rear quarter and carpet delete, (BG9) rubber floor covering and (G50) heavy-duty rear springs	-	-	-	-	-	-	-	-
	V0M	Console, overhead, removable with sunglasses and cell phone holder	-	-	-	-	-	-	-	■
	VDJ	Regular production accessory, Accessory kit, console, floor, 2nd row. 1. For additional GM Accessory Offerings and information, contact your local GM Accessory Distributor Installer (ADI).	-	-	-	-	-	-	■ ¹	-
K34		Cruise control, electronic with set and resume speed 1. Requires (AP8) Remote Keyless Entry.	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	-	■
	C49	Defogger, rear-window electric (PCN) Standard Package.	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	-	■
	U42	Entertainment system, rear seat Deluxe overhead DVD-integrated player with remote control (batteries not included), AM and headphones jacks, rear audio controls and 2 sets of infrared headphones	-	-	-	-	-	-	-	■

Free Flow RPO Code	Ref. Only RPO Code	Description	Front Wheel Drive Regular Wheelbase CU1416				Front Wheel Drive Extended Wheelbase CU12216			
		1. Equipment Group 1LS available on the CU1416 Model. 2. Equipment Group 1FL available on the CU1416 Model and Requires a Fleet, Government or Commercial order type. 3. Equipment Groups 1LS, 2FL, 1LT, 2LT and 3LT available on the CU12216 Model. 4. Equipment Group 1FL available on the CU12216 Model and Requires a Fleet, Government or Commercial order type.	LS 1LS ¹	LS Fleet 1FL ²	LS 1LS ¹	LS Fleet 1FL ²	LS 1LS ¹	LS Fleet 1FL ²	LS 1LS ¹	LS Fleet 1FL ²
	UNS	Entertainment system, Mobile Digital Media Player by Phonelife with 40-gigabyte removable hard drive that connects to a PC providing the ability to download hundreds of hours of music, audio books, movies and games	-	-	-	-	-	-	-	-
B37		Floor mats, carpeted front, second and third row	-	A	-	A	-	-	-	-
	B50	NEW! Floor mats, carpeted and color-keyed with contrasting edge, all rows	-	-	-	-	-	-	-	■
	UH9	Instrumentation, Deluxe with coolant temperature, trip odometer, tachometer and Driver Information Center	-	-	-	-	-	-	-	■
AP8		Remote Keyless Entry, programmable 1. Requires (K34) cruise control.	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	-	■
	VVL	Overhead Rail System, modular removable	-	-	-	-	-	-	-	■
	V39	Overhead storage console, 1 removable	-	-	-	-	-	-	-	■
	KC7	Power outlet, auxiliary, 115-volt 1. Included and only available with (PCN) Standard Package. 2. Deleted when (V30) Mobility Prep Package, family use is ordered. 3. Included and only available with (PCN) Security Package. Deleted when (V30) Mobility Prep Package, family use is ordered.	-	-	-	-	-	-	A ¹	A ²

2007 Chevrolet Truck Uploader EQUIPMENT GROUPS

Free Flow RPO Code	Ref. Only RPO Code	Description	Front-Wheel Drive Regular Wheelbase CU11416				Front-Wheel Drive Extended Wheelbase CU12216			
			LS	LS Fleet 1FL	LS 1LS	LS Fleet 1FL	LS	LS Fleet 1FL	LS 1LS	LS Fleet 1FL
PCM		1 - Equipment Group 1LS available on the CU11416 Model. 2 - Equipment Group 1FL available on the CU11416 Model and requires a Fleet, Government or Commercial order type. 3 - Equipment Groups 1LS, 2FL, 1LT, 2LT and 3LT available on the CU12216 Model. 4 - Equipment Group 1FL available on the CU12216 Model and requires a Fleet, Government or Commercial order type.	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ²
		Climate Package, includes (A11) Solar-Ray deep-vented glass, (C49) rear window defogger, (DR5) outside heated power-adjustable mirrors and (C25) rear wiper. 1 - Note: Must specify (PCM) Climate Package or (R3W) rear window defogger. 2 - Note: Must specify (PCM) Climate Package or (R3W) rear window defogger not desired, (A11) Solar-Ray deep-vented glass deleted when (ABW) opaque glass is ordered.								
	E58	Door, power-sliding passenger-side, controlled by interior switch or key fob transmitter 1 - Included and only available with (PCM) Climate Package.								
	E59	Door, power-sliding driver-side, controlled by interior switch or key fob transmitter 1 - Included and only available with (PCM) Convenience Package.								
	D75	Door handles, body-color								
	AJ1	Glass, Solar-Ray deep-vented mid-, rear-side and liftgate 1 - Included and only available with (PCM) Climate Package.	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹
V59		Luggage rack side rails, roof-mounted, Black		A		A	A	A		
	V64	Luggage rack side rails, Sport, roof-mounted, bright								
	DR5	Mirrors, outside heated power-adjustable, Black, manual-folding 1 - Included and only available with (PCM) Climate Package.	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹
	B86	Moldings, body-color body-side								

Free Flow RPO Code	Ref. Only RPO Code	Description	Front-Wheel Drive Regular Wheelbase CU11416				Front-Wheel Drive Extended Wheelbase CU12216			
			LS	LS Fleet 1FL	LS 1LS	LS Fleet 1FL	LS	LS Fleet 1FL	LS 1LS	LS Fleet 1FL
	UD7	1 - Equipment Group 1LS available on the CU11416 Model. 2 - Equipment Group 1FL available on the CU11416 Model and requires a Fleet, Government or Commercial order type. 3 - Equipment Groups 1LS, 2FL, 1LT, 2LT and 3LT available on the CU12216 Model. 4 - Equipment Group 1FL available on the CU12216 Model and requires a Fleet, Government or Commercial order type.								
		Rear Parking Assist 1 - Included and only available with (PDD) Convenience Package.								
N85		Wheels, 17" (43.2 cm) aluminum	A	A	A	A	A	A	A	A
P04		NEW! Wheels, 17" (43.2 cm) aluminum								
	C25	Wiper, rear intermittent with washer 1 - Included and only available with (PCM) Climate Package.	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹

S = Standard Equipment A = Available - (dashes) = Not Available D = ADJ Available
 ■ = Included in Equipment Group □ = Not 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	Front-Wheel Drive Regular Wheelbases CU11416		Front-Wheel Drive Extended Wheelbases CU12216					
		1. Equipment Group 1LS available on the CU11416 Model. 2. Equipment Group 1FL available on the CU11416 Model and Requires a Fleet, Government or Commercial order type. 3. Equipment Groups 1LS, 2FL, 1LT, 2LT and 3LT available on the CU12216 Model. 4. Equipment Group 1FL available on the CU12216 Model and Requires a Fleet, Government or Commercial order type.	1LS	1LS Final	1LS	1LS Final	1LT	1LT Final	2LT	2LT Final
AL7		Air bags, dual-stage frontal and side-impact, driver and right-front passenger 1. Always use safety belts and the correct child restraint for your child's age and size, even in vehicles equipped with air bags. Children are safer when properly secured in a vehicle seat than when not buckled up. Always use the vehicle's Owner's Manual and child safety seat instructions for more safety information. 2. Included and only available with (ACM) Regular Production Accessory, SHN-Lift power seat, (Y36) Mobility Prep Package, (Y37) Roll-Over Protection System delete or (PCL) Overhead Rail System delete with OnStar. Always use safety belts and the correct child restraints for your child's age and size, even in vehicles equipped with air bags. Children are safer when properly secured in a rear seat. See the vehicle's Owner's Manual and child safety seat instructions for more safety information. 3. Included and only available with (ACM) Regular Production Accessory, SHN-Lift power seat or family-use. Always use safety belts and the correct child restraints for your child's age and size, even in vehicles equipped with air bags. Children are safer when properly secured in a rear seat. See the vehicle's Owner's Manual and child safety seat instructions for more safety information.	A ¹	A ¹	A ¹	A ¹	A ¹	■ ¹	A ²	A ²

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

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

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

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

Free-Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment Group 1LS available on the CU11416 Model. 2 - Equipment Group 1FL available on the CU11416 Model and requires a 1.6L engine or Commercial order type. 3 - Equipment Groups 1LS, 2FL, 1LT, 2LT and 3LT available on the CU12216 Model. 4 - Equipment Group 1FL available on the CU12216 Model and requires a 1.6L engine or Commercial order type.	Front-Wheel Drive Regular Wheelbases CU11416		Front-Wheel Drive Extended Wheelbases CU12216					
			1LS	1LS Final	1LS	1LS Final	1LT	1LT Final	2LT	2LT Final
AW5		Air bags, dual-stage, frontal, driver and right-front passenger and side-impact, first and second row outboard 1 - Not included when (Y36) Mobility Prep Package, family-use accessory, SHN-Lift power seat is ordered. Always use safety belts and the correct child restraint for your child's age and size, even in vehicles equipped with air bags. Children are safer when properly secured in a vehicle seat than when not buckled up. Always use the vehicle's Owner's Manual and child safety seat instructions for more safety information.	-	-	-	-	-	-	■ ¹	■ ¹
	C13	NEW! Air conditioning, dual-zone, manual climate control with individual climate settings for driver and right front passenger, manual climate control and rear seat heating/cooling outlets	-	-	-	-	-	-	■ ¹	■ ¹
C69		Air conditioning, rear auxiliary with heater and rear seat fan/temperature controls 1 - Required with (PCM) Climate Package. Not available with (RSW) rear window defogger not desired.	-	-	A ¹	A ¹	-	■ ¹	■ ¹	■ ¹
UXK		XM Satellite Radio. With a wide variety of programming, XM has something to excite any driver. Whether you want to be entertained or informed, to laugh, think, or sing, XM has the perfect channel for you - coast-to-coast, and in digital-quality sound. 3 trial months - no obligation 1 - Available in the 48 contiguous United States. Required \$12.95 monthly subscription and programming subject to change. See XM website for more information. For more information, visit gm.xmradio.com.	-	-	-	-	-	A ¹	■ ¹	■ ¹

2007 Chevrolet Truck Uplander EQUIPMENT GROUPS

Free Flow RPO Code	Ref. Only RPO Code	Description	Front-Wheel Drive Regular Wheelbase CU1416				Front-Wheel Drive Extended Wheelbase CU2216			
			LS	LS Fleet 1FL	LS	LS Fleet 1FL	Cargo 2FL	LT	LT Fleet 2FL	LT
		1 - Equipment Group 1LS available on the CU1416 Model. 2 - Equipment Group 1FL available on the CU1416 Model and Requires a power seat or (Y36) Mobility Prep Package, Deleted when (A0N) Regular Production Accessory, Sit-N-Lift power seat, or (Y36) Mobility Prep Package, Deleted when (A0N) Regular Production Accessory, Sit-N-Lift power seat or (Y36) Mobility Prep Package, family use are ordered.								
	D7E	Cargo convenience center, rear removable, includes rear mesh cargo partition 1 - Included and only available with (A0N) Regular Production Accessory, Sit-N-Lift power seat, or (Y36) Mobility Prep Package, Deleted when (A0N) Regular Production Accessory, Sit-N-Lift power seat or (Y36) Mobility Prep Package, family use are ordered.	-	-	-	-	-	-	-	A ¹
	AP9	Cargo net, rear 1 - Deleted when (PCN) Storage and Organizer Package is ordered.	-	-	-	-	-	-	-	A ¹
	Z10	Cargo Van Package, includes (BAD) Equipment Modification, rear quarter and carpet delete, (BG9) rubber floor covering and (G50) heavy-duty rear springs	-	-	-	-	-	-	-	-
	V0M	Console, overhead, removable with sunglasses and cell phone holder	-	-	-	-	-	-	-	-
	VDJ	Regular production accessory, Accessory kit, console, floor, 2nd row 1 - For additional GM Accessory Offerings and Installation Instructions, contact your local GM Accessory Distributor Installer (ADI).	-	-	-	-	-	-	-	-
K34		Cruise control, electronic with set and resume speed 1 - Requires (AP8) Remote Keyless Entry.	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹
	C49	Defogger, rear-window electric (PCN) Climate Package 1 - Included and only available with (PCN) Climate Package.	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹
	U42	Entertainment system, rear seat Deluxe overhead DVD-integrated player with remote control (batteries not included), A/V and headphone jacks, rear audio controls and 2 sets of infrared headphones	-	-	-	-	-	-	-	-

2007 Chevrolet Truck Uplander EQUIPMENT GROUPS

Free Flow RPO Code	Ref. Only RPO Code	Description	Front-Wheel Drive Regular Wheelbase CU1416				Front-Wheel Drive Extended Wheelbase CU2216			
			LS	LS Fleet 1FL	LS	LS Fleet 1FL	Cargo 2FL	LT	LT Fleet 2FL	LT
		1 - Equipment Group 1LS available on the CU1416 Model. 2 - Equipment Group 1FL available on the CU1416 Model and Requires a power seat or (Y36) Mobility Prep Package, Deleted when (A0N) Regular Production Accessory, Sit-N-Lift power seat, or (Y36) Mobility Prep Package, Deleted when (A0N) Regular Production Accessory, Sit-N-Lift power seat or (Y36) Mobility Prep Package, family use are ordered.								
	B37	Entertainment system, Mobile Digital Media Player by Philips with 40-gigabyte removable hard drive that connects to a PC providing the ability to download hundreds of hours of music, audio books, movies and games Floor mats, carpeted front, second and third row	-	-	-	-	-	-	-	-
	B50	NEW! Floor mats, carpeted and color-keyed with contrasting edge, all rows	-	-	-	-	-	-	-	-
	UH9	Instrumentation, Deluxe with coolant temperature, trip odometer, tachometer and Driver Information Center	-	-	-	-	-	-	-	-
AP8		Remote Keyless Entry, programmable 1 - Requires (K34) cruise control.	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹
	VVL	Overhead Rail System, modular	-	-	-	-	-	-	-	-
	V39	Overhead storage console, 1 removable	-	-	-	-	-	-	-	-
	KC7	Power outlet, auxiliary, 115-volt 1 - Included and only available with (PCN) Climate Package, Deleted when (Y36) Mobility Prep Package, family use is ordered. 2 - Included and only available with (PCN) Security Package, Deleted when (Y36) Mobility Prep Package, family use is ordered.	-	-	-	-	-	-	-	A ²

Free Flow RPO Code	Ref. Only RPO Code	Description	Front-Wheel Drive Regular Wheelbase CU11416		Front-Wheel Drive Extended Wheelbase CU12216					
			LS	LS FRL2	LS FRL3	Cargo FRL2	L1 LT12	L1 LT13	L1 LT14	L1 LT15
		1. Equipment Group 1LS available on the CU11416 Model. 2. Equipment Group 1FL available on the CU11416 Model and Requires a Fleet, Government or Commercial order type. 3. Equipment Group 1LS, 2FL, 1LT, 2LT and 3LT available on the CU12216 Model. 4. Equipment Group 1FL available on the CU12216 Model and Requires a Fleet, Government or Commercial order type.								
PCV		Premium Seating Package. Includes leather-appointed seating surfaces, (AG2) 6-way power front passenger seat adjuster and (KA1) heated driver and right-front passenger seats. 1. Must order (T2). Leather-appointed seating surfaces. Requires (T85) second row, second row captain's chairs or commercial order type or (Y3G) Mobility Prep Package, family-use, post-31 heated, driver and front passenger seats and front and rear seat belts. Not available when (PCU) Overhead Rail System is ordered. (PCU) Overhead Rail System is available with OnStar is selected.	-	-	-	-	-	A1	-	■
AN2		Seat, integral child, single in second row passenger-side. 1. Requires (AG1) 6-way power driver seat adjuster, (A17) front passenger seat belt, impact driver and right-front passenger air bags and (C) Custom Cloth. 2. Requires (AG1) 6-way power driver seat adjuster, (A17) front passenger seat belt, impact driver and right-front passenger air bags and (C) Custom Cloth. Cloth is ordered. Not available with (Y3H) Mobility Prep Package, paramount.	-	A1	-	-	-	-	-	-
ABD		Seats, 7-passenger, front bucket, second row captain's chairs with inboard armrests and third row 50/50 split-folding bench. 1. Second row captain's chairs are not removable.	-	-	-	-	-	■	-	■
ABF		Seats, Cargo Van, 3-passenger, single crew seat, second row passenger-side.	-	-	-	■	-	-	-	-
KA1		Seats, heated driver and front passenger (PCU) Premium Seating Package.	-	-	-	-	-	A1	-	■

Free Flow RPO Code	Ref. Only RPO Code	Description	Front-Wheel Drive Regular Wheelbase CU11416		Front-Wheel Drive Extended Wheelbase CU12216					
			LS	LS FRL2	LS FRL3	Cargo FRL2	L1 LT12	L1 LT13	L1 LT14	L1 LT15
		1. Equipment Group 1LS available on the CU11416 Model. 2. Equipment Group 1FL available on the CU11416 Model and Requires a Fleet, Government or Commercial order type. 3. Equipment Group 1LS, 2FL, 1LT, 2LT and 3LT available on the CU12216 Model. 4. Equipment Group 1FL available on the CU12216 Model and Requires a Fleet, Government or Commercial order type.								
AG1		Seat adjuster, driver 6-way power 1. If (T83) Base Cloth, trim 1 is selected, then (AK9) dual-stage, front driver and right front passenger seats and 1 and 4 but can upgrade to (A17) dual-stage, front, driver and right front passenger and side-impact air bags. If (Y3G) Custom Cloth, trim 1 is selected, then (A17) dual-stage, front, driver and right front passenger and side-impact air bags are required.	-	A1	-	A	■	■	■	■
AG2		Seat adjuster, front passenger 6-way power 1. Included and only available with (PCV) Premium Seating Package.	-	-	-	-	-	A1	-	■
UK3		Steering wheel controls, mounted audio controls, includes (NK4) leather-wrapped steering wheel	-	-	-	-	-	■	■	■
D55		Storage, covered, non-locking, located below instrument panel	-	-	-	-	-	■	■	■
UK6		Theft-deterrent system (P20) Security 3-stages.	-	-	-	-	-	A1	-	■
D4V		Utility tray, front seat, side-folding	-	-	-	-	-	■	■	■
T85		Utility tray, second row, side-folding	-	-	-	-	-	A1	-	■
UK1		Universal Home Remote (P20) Security Package. 1. Included and only available with (PCV) Premium Seating Package.	-	-	-	-	-	A1	-	■
DH6		Vision, driver and front passenger illuminated vanity mirrors	-	-	-	-	-	■	■	■
A20		Windows, power rear quarter vent (PCU) Mobility Prep Package, paramount upgrade.	-	-	-	A1	-	■	■	■

First Flow RPO Code	Ref. Only RPO Code	Description	Front-Wheel Drive Regular Wheelbase CU1416					Front-Wheel Drive Extended Wheelbase CU1216				
			LS 1LS	LS Fleet 1FL	LS Fleet 1FL2	LS 1LS	LS Fleet 1FL	Cargo 2FL2	LT 1LT	LT 2LT	LT 3LT	
PCM		1 - Equipment Group 1LS available on the CU11416 Model and Requires a Fleet, Government or Commercial order type. 2 - Equipment Group 1LS, 2FL, 1LT, 2LT and 3LT available on the CU1216 Model. 4 - Equipment Group 1FL available on the CU1216 Model and Requires a Fleet, Government or Commercial order type.	A ¹	A ¹	A ¹	A ¹	A ¹	A ²				
		Climate Package, Includes (AJ1) Solar-Ray deep-tinted glass, (C49) rear window defogger, (DR5) outside heated power-adjustable mirrors and (C25) rear wiper 1 - Note: Must specify (PCM) Climate Package or (R3W) rear window defogger not desired. 2 - Note: Must specify (PCM) Climate Package or (R3W) rear window defogger not desired. (AJ1) Solar-Ray deep-tinted glass deleted and (A11) opaque glass is ordered.										
	E59	Door, power-sliding passenger-side, controlled by interior switch or key fob transmitter 1 - Included and only available with (PCQ) Mobility Prep Package, parasanit upgrade.	-	-	-	-	-	-				
	E59	Door, power-sliding driver-side, controlled by interior switch or key fob transmitter 1 - Included and only available with (PDD) Convenience Package.	-	-	-	-	-	-	A ¹			
	D75	Door handles, body-color	-	-	-	-	-	-				
	AJ1	Glass, Solar-Ray deep-tinted mid-, rear-side and liftgate 1 - Included and only available with (PCM) Climate Package.	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹				
V59		Luggage rack side rails, roof-mounted, Black	-	A	-	A	A	A			-	
V64		Luggage rack side rails, Sport, roof-mounted, bright	-	-	-	-	-	-				
DR5		Mirrors, outside heated power-adjustable, Black, manual-folding 1 - Included and only available with (PCM) Climate Package.	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹				
B86		Moldings, body-color body-side	-	-	-	-	-	-				

Free Flow RPO Code	Ref. Only RPO Code	Description	Front-Wheel Drive Regular Wheelbase CU11416				Front-Wheel Drive Extended Wheelbase CU12216																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
			LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS	LS 1LS

ADDITIONAL OPTIONS										
Free Duty FED RPO Code	Rel. Only RPO Code	Description	Front Wheel Drive Regular Wheelbase CU1216	Front Wheel Drive Extended Wheelbase CU1216	Front Wheel Drive Extended Wheelbase CU1216	Front Wheel Drive Extended Wheelbase CU1216	Front Wheel Drive Extended Wheelbase CU1216	Front Wheel Drive Extended Wheelbase CU1216	Front Wheel Drive Extended Wheelbase CU1216	Front Wheel Drive Extended Wheelbase CU1216
AJ7		<p>Air bags: dual-stage front and side-impact, driver and right-front passenger</p> <p>1 - Always use safety belts and the correct child restraint for your vehicle equipped with air bags. Children are safer when properly secured in a rear seat. See the Owner's Manual for the correct child safety seat instructions for more safety information.</p> <p>2 - Included and only available with 10.0 Prep Package, Accessory, SH-ALift power seat, (V36) Mobility Prep Package, family-use, (FCU) Overhead Rail System, (FCU) Overhead Rail System delete with OnStar. Always use safety belts and the correct child restraint for your vehicle equipped with air bags. Children are safer when properly secured in a rear seat. See the Owner's Manual and child safety seat instructions for more safety information.</p> <p>3 - Included and only available with 10.0 Prep Package, Accessory, SH-ALift power seat or (V36) Mobility Prep Package, family-use. Always use safety belts and the correct child restraint for your child's age and size, even in vehicles equipped with air bags.</p> <p>4 - Equipment Group 1FL available on the CU1216 Model and Requires a 2nd Anniversary of Commercial order type.</p>	A ¹	A ¹	A ¹	A ¹	A ¹	■ ¹	A ²	A ²
C69		<p>Air conditioning, rear auxiliary with heater and rear seat fan/temperature controls</p> <p>1 - Requires (PCM) Climate Package. Not available with (RW) rear window defogger and dealer.</p>	-	-	A ¹	A ¹	-	■	■	■

ADDITIONAL OPTIONS								
File Flow RPO Code	Ref. Only RPO Code	Description	Front-Wheel Drive Regular Wheelbase ^a		Front-Wheel Drive Extended Wheelbase ^a			
			CU1116	CU1116	CU1216	CU1216	CU1216	CU1216
US9		1 - Equipment Group ILS available on the CU1116 Model. RF, available on the CU1216 Model and Requires a Front, Government or Commercial order type. 2 - Equipment Groups 1LT, 2LT, 3LT are available on the CU1221S Model. 4 - Equipment Group 3FL available on the CU1216 Model and Requires a Front, Government or Commercial order type.	LS 1LT ^b	LS Fleet 1LT ^b	LS 1LT ^b	LS Fleet 1LT ^b	Cargo 2LT ^c	LT ^d 2LT ^e 3LT ^f
US3U		Audio system, AM/FM stereo with 6-disc in-dash CD changer and MP3 playback, seek-and-scan, digital dock, auto-tune control, Radio Data System (RDS), automatic volume, TheftLock and premium front and rear coaxial speakers	-	-	-	-	-	A ^g
US3U		Audio system with navigation, AM/FM stereo with MP3 compatible CD player and multimedia navigation, seek-and-scan, digital dock, auto-tune control, Radio Data System (RDS), automatic volume, TheftLock and voice recognition	-	-	-	-	-	A ^g
USZK		1. Not available in Alaska, Puerto Rico or the Virgin Islands. XM Satellite Radio. With a wide variety of programming, XM has something to excite any driver. Whether you want to be entertained or informed, to laugh, think, or sing, XM has the perfect channel for you - coast-to-coast, and in digital-quality sound. 3 trial months - no obligation 1 - Available in the 48 contiguous United States. Required \$12.95 monthly subscription and activation fee. 2 - XM Satellite Radio equipment programming subject to change without notice. 3 - XM Satellite Radio equipment, installation, visit gm.xmradio.com.	-	-	-	-	-	A ^g
RQJ		Commercial Business Choice Upgrade package includes 4-year unlimited Aerial Shield™ (ABS) Cargo Van, Zapsenger seat, no crew seat.	-	-	-	-	A ^g	-

ADDITIONAL OPTIONS												
Free Flow RPO Code	Ref. Only RPO Code	Description	Front Wheel Drive Regular Wheelbase CU11416			Front Wheel Drive Extended Wheelbase CU2216						
			LS	LS Fleet 1F1 ¹	LS 1L5 ¹	LS Fleet 2F1 ¹	LS 2L5 ¹	LT 3L7 ¹				
		1 - Equipment Group 1LS available on the CU11416 Model. 2 - Equipment Group 1F1 available on the CU11416 Model and Requires a Fleet, Government or Commercial order type. 3 - Equipment Groups 1LS, 2F1, 1L7, 2L7 and 3L7 available on the CU2216 Model. 4 - Equipment Group 1F1 available on the CU2216 Model and Requires a Fleet, Government or Commercial order type.										
R7T		Commercial Business Choice Upfit, commercial bin and partition 1 - Requires (W75) Ship-thru upfitter, Adrian Steel and (ABG) Cargo bin, 2-passenger seat, no crew seat.	-	-	-	-	A ¹	-	-	-	-	-
PDD		Convenience Package, includes (KC7) 115-volt power outlet, (ES9) power-sliding, driver-side door and (UD7) Rear Parking Assist 1 - Not available with (PCU) Overhead Rail System delete or with OnStar.	-	-	-	-	-	A ¹	-	-	-	-
K34		Cruise control, electronic with set and resume speed 1 - Requires (AP8) Remote Keyless Entry.	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹
R9W		Defogger, rear-window, not desired 1 - Note, Must specify (PCU) Climate Package or (RSW) rear window defogger not desired.	A ¹	A ¹	A	A	A ¹	-	-	-	-	-
B37		Floor mats, carpeted front, second and third row.	-	A	-	A	-	-	-	-	-	-
TX3		Headphones, 2 additional, infrared	-	-	-	-	-	A	A	A	A	A
AP8		Remote Keyless Entry, programmable 1 - Requires (K34) cruise control.	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹

ADDITIONAL OPTIONS												
Free Flow RPO Code	Ref. Only RPO Code	Description	Front Wheel Drive Regular Wheelbase CU11416			Front Wheel Drive Extended Wheelbase CU2216						
			LS	LS Fleet 1F1 ¹	LS 1L5 ¹	LS Fleet 2F1 ¹	LS 2L5 ¹	LT 3L7 ¹				
		1 - Equipment Group 1LS available on the CU11416 Model. 2 - Equipment Group 1F1 available on the CU11416 Model and Requires a Fleet, Government or Commercial order type. 3 - Equipment Groups 1LS, 2F1, 1L7, 2L7 and 3L7 available on the CU2216 Model. 4 - Equipment Group 1F1 available on the CU2216 Model and Requires a Fleet, Government or Commercial order type.										
Y3H		Mobility Prep Package, paratransit (to lower the floor), includes (AB1) front bucket seats, second row seats removed and third row 50/50 split-folding bench, no floor coverings, extended length wiring harness, (V08) heavy-duty cooling (high-capacity radiator and 240-watt fan) and heavy-duty springs 1 - Requires a Fleet, Government or Commercial order type, (PCM) Climate Package, (AJ7) dual-stage, frontal, and side-impact driver and passenger air bags, (N85) 17" (43.2 cm) aluminum wheels, (FE3) Safe and Secure Package and (JL4) StabilityTrak. Ship to authorized upfitter required - Stream or Eldorado.	-	-	-	-	A ¹	-	-	-	-	-
PCQ		Mobility Prep Package, paratransit upgrade, includes (ES8) power-sliding, passenger-side door, (AP8) Remote Keyless Entry, (A20) power rear quarter vent windows, (AJ7) side-impact, driver and right-front passenger air bags, (K34) cruise control and (PCM) Climate Package 1 - Requires a Fleet, Government or Commercial order type and (Y3H) Mobility Prep Package, paratransit. Ship to authorized upfitter required - Stream or Eldorado.	-	-	-	-	A ¹	-	-	-	-	-

ADDITIONAL OPTIONS									
Fires Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment Group 1L5 available on the CU11416 Model. 2 - Equipment Group 1L5, 2FL, 1LT, 1LT7 and 1LT7 available on the CU12216 Model. 3 - Equipment Group 1L5, 2FL, 1LT, 1LT7 and 1LT7 available on the CU12216 Model. 4 - Equipment Group 1FL available on the CU12216 Model and Requires a order type.	Front Wheel Drive Regular Wheelbase CU11416		Front Wheel Drive Extended Wheelbase CU12216				
			LS 1L5 ¹	LS Fleet 1FL ²	LS 1LT ³	LS Fleet 1FL ²	Cargo 2FL ³	LT 1LT ³	LT 1LT ³
Y3G		<p>Mobility Prep Package, family-use. (to lower the floor), includes (A8) Custom Cloth front bucket seats, second row seats removed and third row 50/50 split-bench, no floor coverings and extended length wiring harness</p> <p>1 - Ship to authorized mobility BAC (43.2 cm) aluminum wheels, (FEB) Side and Secure Package and (JL4) Storage and Organizer Package or (ACOM) Regular production accessory, S/N-Lit power seat, driver and right-front passenger and side impact, first and second row dual-stage front air bags, front driver and right-front passenger air bags. Always use safety belts and child's age and size, even in vehicles equipped with air bags. Children are safer when properly seated in child safety seats that meet the vehicle's Owner's Manual and child safety seat instructions for more safety information.</p> <p>2 - Ship to authorized mobility BAC (43.2 cm) aluminum wheels, (FEB) Side and Secure Package and (JL4) Storage and Organizer Package or (ACOM) Regular production accessory, S/N-Lit power seat, driver and right-front passenger and side impact, first and second row dual-stage front air bags, front driver and right-front passenger air bags. Always use safety belts and the correct child safety seat, even in vehicles equipped with air bags. Children are safer when properly seated in child safety seats that meet the vehicle's Owner's Manual and child safety seat instructions for more safety information.</p>	-	-	-	-	-	A ¹	A ²

ADDITIONAL OPTIONS									
Fires Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment Group 1L5 available on the CU11416 Model. 2 - Equipment Group 1FL available on the CU11416 Model and Requires a order type. 3 - Equipment Group 1L5, 2FL, 1LT, 1LT7 and 1LT7 available on the CU12216 Model. 4 - Equipment Group 1FL available on the CU12216 Model and Requires a order type.	Front Wheel Drive Regular Wheelbase CU11416		Front Wheel Drive Extended Wheelbase CU12216				
			LS 1L5 ¹	LS Fleet 1FL ²	LS 1LT ³	LS Fleet 1FL ²	Cargo 2FL ³	LT 1LT ³	LT 1LT ³
UED		<p>OnStar, not-installed 1 - Requires a Fleet or Government order type. If the order type is FDR, UED or GDR, not-installed will be forced on. 2 - Requires a Fleet or Government order type. If the order type is FDR, UED or GDR, not-installed will be forced on. 3 - Requires a Fleet or Government order type. If the order type is FDR, UED or GDR, not-installed will be forced on. 4 - Requires a Fleet or Government order type. If the order type is FDR, UED or GDR, not-installed will be forced on.</p>	A ¹	A ¹	A ¹	A ¹	-	A ²	A ²

ADDITIONAL OPTIONS								
Trailer FPO RPO Code	Ref. FPO RPO Code	Description	From Wheel Drive Regular Workshoes CU11416	From Wheel Drive Extended Workshoes CU11417	From Wheel Drive Extended Workshoes CU12216	From Wheel Drive Extended Workshoes CU12217	From Wheel Drive Extended Workshoes CU12218	From Wheel Drive Extended Workshoes CU12219
		<p>Discretionary</p> <p>1. Equipment Group "I"LS available on the CU11416 Model.</p> <p>2. Equipment Group "FI" available on the CU11416 Model and Requires a Fleet, Government or Commercial order type.</p> <p>3. Equipment Groups 11.S, 2.FL, 11.T, 2LT and 3LT available on the CU12216 Model.</p> <p>4. Equipment Group "FI" available on Fleet, Government or Commercial order type.</p>	LS 11.S	LS Regular 11.L	LS 134d 11.S ¹	Cargo 3FL ¹	L7 ¹ 11.D ¹	L7 ¹ 2LT ¹
PCV		<p>Premium Seating Package. includes leather-appointed seating surfaces, (AG2) 6-way power front passenger seat adjuster and (KA1) heated driver and right-front passenger seats</p> <p>1 - Must order ("Z") leather-appointed seating surfaces, leather-appointed steering wheel, side-folding utility tray. Also requires a fleet, government or commercial order type. ("3S0") Mobility Package required for use. (KA1) heated driver and front passenger seats are not included with this package. The system delete or (PCL) Overhead Rail System delete with OnStar is selected.</p>	-	-	-	-	-	A ¹ ■
AQW		<p>Regular production accessory. Seat, power, lift-N-Lift, 2nd row right-hand side, includes hand-held remote control and slide-out footrest</p> <p>1- Requires option (R6W)</p> <p>Re-confirm option (AQW) Regular production accessory, lift-N-Lift with ("3S0") Mobility Package required for use. ("3S0") Mobility Package required for use. family-use, Requires (A2D)</p> <p>(A22 center seating, Requires 17-18" seat height) Includes (A2T) dual-stage, frontal, and side-impact driver and front occupant air bags. Always use safety belts and proper child restraints, even with air bags. Secured in a safe and secure manner. Owner's Manual for more safety information. For additional GM Accessories go to www.gm.com/accessories. Installation, please contact your local GM Accessory Distributor installer (ADI).</p>	-	-	-	-	-	AD ¹ AD ¹

ADDITIONAL OPTIONS												
Free Pkwy RPO Code	Ref. Only RPO Code	Description	Front-Wheel Drive				Front-Wheel Drive Extended Wheelbase					
			Require Vehicle CUI1145				CUI216					
			L3	L5 Fwd	L5	L5 Fwd	C-600	L7	L7	L7	L7	
			11.5	11.5	11.5	11.5	20.1	11.7	20.1	20.1	20.1	
R6W		Re-confirm option (AQW) Regular production accessory, SH-N-Lit power seat desired 1. Requires (AQW) Regular Production Accessory, SH-N-Lit power seat. 2. Requires (AQW) Regular Production Accessory, SH-N-Lit power seat.	-	-	-	-	-	-	A ¹	-	A ¹	
AP3		Remote keyless starter system. Includes Remote Keyless Entry.	-	-	-	-	-	A	A	A	A	
AN2		Seat, integral child, single in second row passenger-side 1. Requires (AG1) 6-way power driver's seat, front and side-impact, driver and right-front passenger air bags and (C0) Custom Cloth. 2. Requires (AG1) 6-way power driver's seat, front and side-impact, driver and right-front passenger air bags and (C0) Custom Cloth is ordered. Not available with (Y3H) Mobility Pkg Package, parametric.	-	A ¹	-	A ²	-	■	-	-	-	
AB6		Seats, Cargo Van, 2-passenger, no crew seat 1. Requires (W73) Ship-thru upfitter, Adrian Steel or (WU2) Ship-thru upfitter, Mastareck for Partition Installation may be obtained through either Business Choice option (B70) Commercial Choice or (B71) Commercial package or (R77) Commercial Business Choice Upfit, commercial to (W73) Ship-thru upfitter, Adrian Steel or (WU2) Ship-thru upfitter, Mastareck.	-	-	-	-	A ¹	-	-	-	-	

ADDITIONAL OPTIONS											
Free Flow RPO Code	Ref. Only RPO Code	Description	Front-Wheel Drive Regular Wheelbase CU1446						Front-Wheel Drive Extended Wheelbase CU2216		
			LS 1L5	LS Fleet 1L5	LS Fleet 1L5.4	Corp 2L2	LT 1L7	LT 2L7	LT 3L7	LT 4L7	LT 5L7
ABM		1 - Equipment Group 1LS available on the CU1446 Model. 2 - Equipment Group 1LS available on the CU1446 Model and Requires a Fleet, Government or Commercial order type. 3 - Equipment Groups 1LS, 2FL, 1LT, 2LT and 3LT available on the CU2216 Model. 4 - Equipment Group 1FL available on the CU2216 Model and Requires a Fleet, Government or Commercial order type.	—	—	A ¹	A ¹	—	—	A ²	—	A ²
AG1		Seats, third row delete. 4-passenger, 2 second row modular bucket seats without armrests (third row seating removed) 1 - Requires a Fleet or Government order type. 2 - Package, family-use, includes second row captain's chairs instead of second row modular bucket seats.	—	A ¹	—	—	—	—	—	—	—
		Seat adjuster, driver 6-way power 1 - If ("B") Base Cloth trim is selected, then the 6-way power front/driver and 6-way power passenger air bags is standard, but can upgrade to (A)7 dual-stage, 6-way power front/driver and 6-way power passenger and side-impact air bags. If ("C") Custom Cloth trim is selected, then (A)7 dual-stage, 6-way power front/driver and 6-way power passenger and side-impact air bags and (AN2) Integral child seat are required.	—	A ¹	—	A ¹	—	—	—	—	—
PDY		Security Package, includes (UA6) theft-deterrent alarm system (UG1) Universal Home Remote and (KC7) 115-volt power outlet. 1 - Not available with (PCU) Overhead Rail System delete or (PCL) Overhead Rail System delete. 2 - Not available with (Y36) Mobility Prep Package delete or (Y38) 115-volt power outlet delete.	—	—	—	—	—	—	A ¹	—	—

ADDITIONAL OPTIONS											
Free Flow RPO Code	Ref. Only RPO Code	Description	Regular Wheelbase CU1446				Front-Wheel Drive Extended Wheelbase CU2216				
			LS 1L5	LS Fleet 1L5	LS Fleet 1L5.4	Corp 2L2	LT 1L7	LT 2L7	LT 3L7	LT 4L7	LT 5L7
		1 - Equipment Group 1LS available on the CU1446 Model. 2 - Equipment Group 1LS available on the CU1446 Model and Requires a Fleet, Government or Commercial order type. 3 - Equipment Groups 1LS, 2FL, 1LT, 2LT and 3LT available on the CU2216 Model. 4 - Equipment Group 1FL available on the CU2216 Model and Requires a Fleet, Government or Commercial order type.	—	—	—	—	—	—	—	—	—
WT5		Ship-thru upfitter, Adrian Steel 1 - Not available with (WU2) Ship-thru upfitter, Masterack or (VH1) Ship-thru OEM Systems. 2 - Not available with (WU2) Ship-thru upfitter, Masterack, (VH1) Ship-thru OEM Systems or (Y3H) Mobility Prep Package, parasanit. 3 - Not available with (WU2) Ship-thru OEM Systems, (Y3G) Mobility Prep Package, family-use accessory, Side-N-Lift power seat.	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹
WU2		Ship-thru upfitter, Masterack 1 - Not available with (WT5) Ship-thru upfitter, Adrian Steel or (VH1) Ship-thru OEM Systems. 2 - Not available with (WT5) Ship-thru upfitter, Adrian Steel, (VH1) Ship-thru OEM Systems or (Y3H) Mobility Prep Package, parasanit. 3 - Not available with (WT5) Ship-thru upfitter, Adrian Steel, (VH1) Ship-thru OEM Systems, (Y3G) Mobility Prep Package, family-use accessory, Side-N-Lift power seat.	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹
VH1		Ship-thru OEM Systems 1 - Not available with (WT5) Ship-thru upfitter, Adrian Steel or (WU2) Ship-thru upfitter, Masterack. 2 - Not available with (WT5) Ship-thru upfitter, Adrian Steel, (WU2) Ship-thru upfitter, Masterack or (Y3H) Mobility Prep Package, parasanit. 3 - Not available with (WT5) Ship-thru upfitter, Adrian Steel, (WU2) Ship-thru upfitter, Masterack, (Y3G) Mobility Prep Package, family-use accessory, Side-N-Lift power seat.	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹

ADDITIONAL OPTIONS									
Free Flow RPO Code	Ref. Only RPO Code	Description	Front-Wheel Drive Regular Wheelbase CUI1416	Front-Wheel Drive Extended Wheelbase CUI2216	Front-Wheel Drive Standard Wheelbase CUI1416	Front-Wheel Drive Extended Wheelbase CUI2216	Front-Wheel Drive Standard Wheelbase CUI1416	Front-Wheel Drive Extended Wheelbase CUI2216	Front-Wheel Drive Standard Wheelbase CUI1416
Free Flow RPO Code	Ref. Only RPO Code	Description	LS	LS Plus	LS	LS Plus	Cargo	LT	LT
PCN		<p>Storage and Organizer Package, includes (D/E) rear cargo convenience center, rear cargo partition and (V/E1) Regular production accessory and 2 overhead storage consoles, removable</p> <p>1 - Not available with A/CW Regular production accessory, SH-X-Lit power seat, (P/CU) Overhead Rail System, (P/CU) Overhead Rail System delete with (O/SR or V/20) Mobility Prep Package, family-use, Deletes (A/F9) rear cargo net when ordered.</p>	-	-	-	-	-	-	-
RBC		<p>Cargo area liner, standard, completes final assembly. Must order when no other uplift is required. NO CHARGE</p> <p>1 - Includes (W/19) Ship-thru upfitter, (W/20) Ship-thru upfitter, Mastcrack or (V/H) Ship-thru OEM Systems.</p>	-	-	-	-	A ¹	-	-
T8S		<p>Utility tray, second row, side-folding</p> <p>1 - Required with (P/CV) Premium Seating Package and if (V/36) Mobility Prep Package, family-use is ordered. Front seat (A/SW) driver row seat delete.</p>	-	-	-	-	-	A ¹	■
PCM		<p>Climate Package, includes (A/11) Solar-Ray deep-lined glass, (A/19) rear window defogger, (D/R5) outside heated power-adjustable mirrors and (C/25) rear wiper</p> <p>1 - Note: Must specify (P/CM) Climate Package or (R/W) rear window defogger not desired.</p> <p>2 - Note: Must specify (P/CW) rear window defogger not desired. (A/11) Solar-Ray deep-lined glass deleted ordered.</p>	A ¹	A ¹	A ¹	A ¹	A ²	■	■
ASW		Glass, opaque	-	-	-	-	A	-	-

ADDITIONAL OPTIONS										
Free RPO Code	Ref. Only RPO Code	Description	Front-Wheel Drive CU11416		Front-Wheel Drive Extended Wheelbase CU12116					
			LS 11.5"	LS Fleet 14.7"	LS 17.5"	LS Fleet 19.4"	Crew ¹ 20.2"	L ¹ 21.7"	L ¹ 24.7"	L ¹ 28.7"
		1- Equipment Group ILS available on the CU11416 Model. IFI available on the CU11416 Model and Requires a Fleet, Government or Commercial order type.								
		3- Equipment Groups ILS, 2P ¹ , 1LT ¹ , 2LT ¹ and 3LT ¹ are available on the CU12216 Model.								
		4- Equipment Group "F" available on the CU12116 Model and Requires a Fleet, Government or Commercial order type.								
V59		Luggage rack side rail, roof-mounted, black	-	A	-	A	■	-	-	-
VG6		Regular production accessory, Bumper kit, rear, protector	-	-	-	-	-	AD ¹	AD ¹	
		1- For additional GM Accessory information, please visit the website contact your local GM Accessory Distributor Installer (ADI).								
N65		Wheels, 17' (43.2 cm) aluminum	A	A	A	A	A	■	-	-
P04		aluminum	-	-	-	-	A	■	■	
P23		NEW! Wheels 17' (42.3 cm) 5-spoke, bright chrome clad aluminum	-	-	-	-	-	-	A	A
FE9		Emissions, Federal requirements	A	A	A	A	A	A	A	A
YF5		Emissions, California state requirements	A	A	A	A	A	A	A	A
NE1		Emissions, Maine, Massachusetts, New York or Vermont state requirements	A	A	A	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)	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹
		1 - Requires (FE9) Federal emissions requirements.								

ADDITIONAL OPTIONS										
Free Flow RPO Code	Ref. Only RPO Code	Description	Front-Wheel Drive Regular Wheelbase CU1416					Front-Wheel Drive Extended Wheelbase CU1216		
			LS	LS Fleet 1FL ¹	LS 1LS ²	LS Fleet 1FL ¹	LS 1LS ²	LS Fleet 1FL ¹	Cargo 2FL ³	LT 2LT ⁴
		1 - Equipment Group 1LS available on the CU1416 Model. 2 - Equipment Group 1FL available on the CU1416 Model and requires a Fleet, Government or Commercial order type. 3 - Equipment Group 1LS, 2FL, 1LT, 2LT and 3LT available on the CU1216 Model. 4 - Equipment Group 1FL available on the CU1216 Model and requires a Fleet, Government or Commercial order type.								
RBE		StabilTrak, not desired 1 - Also deletes (NW9) Traction Control, Roll-over Protection type Not available with (FE3) Safe and Secure Package. 2 - Also deletes (NW9) Traction Control, Roll-over Protection type StabilTrak or (RBE) StabilTrak not desired. Not available with (FE3) Safe and Secure Package.	-	-	A ¹	-	-	A ¹	A ²	A ¹
V92		Trailer Provision Package. Includes wiring harness, (KC4) engine oil cooler and (V06) heavy-duty cooling fan. 1 - Requires (FE3) Safe and Secure Package. 2 - Requires (CS8) auxiliary rear air conditioning and (FE3) Safe and Secure Package.	-	A ¹	-	-	-	-	-	A ¹
NW9		Traction control, all-speed 1 - Required with (JL4) StabilTrak or available separately. 2 - Available separately when (RBE) StabilTrak not desired is ordered.	A ¹	A ¹	S ²	A ¹	S ²	S ²	S ²	S ²

ADDITIONAL OPTIONS										
Free Flow RPO Code	Ref. Only RPO Code	Description	Front-Wheel Drive Regular Wheelbase CU1416					Front-Wheel Drive Extended Wheelbase CU1216		
			LS	LS Fleet 1FL ¹	LS 1LS ²	LS Fleet 1FL ¹	LS 1LS ²	LS Fleet 1FL ¹	Cargo 2FL ³	LT 2LT ⁴
NCT		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) California state emissions requirements or (NE1) New York, Vermont, Massachusetts emissions requirements.	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹
LGD		NEW! Engine, 3.9L V6 SFI FlexFuel, capable of running on unleaded or up to 85% ethanol (240 hp [178.9 kW] @ 6000 rpm, 240 lb-ft of torque [324 N-m] @ 4800 rpm)	-	-	A	A	A	A	A	A
K05		Engine block heater	A	A	A	A	A	A	A	A
FE3		Safe and Secure Package. Includes (G67) automatic level control, (V41) initiator kit and (QLR) PZ2560R17 all-season tires 1 - Requires (N65) 17" x 7.5" x 1.5" aluminum wheels (P235/65R17) and (P235/65R17) tires. 2 - Requires (JL4) StabilTrak on Fleet and Government order types.	-	A ¹	-	A ¹	-	-	-	A ²
JL4		StabilTrak, stability control system 1 - Requires (NW9) traction control.	A ¹	A ¹	S	S	S	S	S	S

S = Standard Equipment A = Available (dashes) = Not Available D = ADI 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 RPO Code	Ref. Only RPO Code	Description 1 - Equipment Group 1LS available on the CU11416 Model. 2 - Equipment Group 1F, available on the CU11416 Model and Requires a color, Government or Commercial order type. 3 - Equipment Group 1LS 2F, 1LT, 2LT and 4LT available on the CU12216 Model. 4 - Equipment Group 1F, available on the CU12216 Model and Requires a color, Government or Commercial order type.	Front Wheel Drive Regular Wheelbase CU11416						Front Wheel Drive Extended Wheelbase CU12216					
			1LS	1LS 1F	1LS 1F	1LS 1F	1LS 1F	1LS 1F	1LS 1F	1LS 1F	1LS 1F	1LS 1F	1LS 1F	1LS 1F
	K34	Cruise control												
	AB8	Remote Keyless Entry, Programmable												
	Z10	Cargo Van Package												
	ABF	Seats, Cargo Van, 3-passenger, single crew seat												
	C69	Air conditioning, rear auxiliary												
	PCM	Climate Package												
	C49	Defogger, rear-window												
	E58	Door, power-sliding passenger-side												
	D75	Door handles, body-color												
	U42	Entertainment system, rear seat Deluxe overhead DVD-integrated player												
	AJ1	Glass, Solar-Ray deep-lined												
	DR3	Mirrors, outside heated power-adjustable, black												
	B86	Moldings, body-color body-side												
	VVL	Overhead Rail System, modular												
	AG1	Seat adjuster, driver 6-way power												
	D55	Storage, covered												
	DAY	Utility tray, front seat, side-folding												
	DH6	Visors, driver and front passenger illuminated vanity mirrors												
	A20	Windows, power rear quarter vent												

Free RPO Code	Ref. Only RPO Code	Description 1 - Equipment Group 1LS available on the CU11416 Model. 2 - Equipment Group 1F, available on the CU11416 Model and Requires a color, Government or Commercial order type. 3 - Equipment Group 1LS 2F, 1LT, 2LT and 4LT available on the CU12216 Model. 4 - Equipment Group 1F, available on the CU12216 Model and Requires a color, Government or Commercial order type.	Front Wheel Drive Regular Wheelbase CU11416						Front Wheel Drive Extended Wheelbase CU12216					
			1LS	1LS 1F	1LS 1F	1LS 1F	1LS 1F	1LS 1F	1LS 1F	1LS 1F	1LS 1F	1LS 1F	1LS 1F	1LS 1F
	C25	Wiper, rear intermittent												
	AP9	Cargo net, rear												
	AJ7	Air bags, dual-stage frontal and side-impact, driver and right-front passenger												
	B37	Floor mats, carpeted front, second and third row												
	V59	Luggage rack side rails, roof-mounted, black												
	VD1	Regular production accessory, Accessory kit												
	AN2	Seat, integral child, single in second row passenger-side												
	N85	Wheels, 17" (43.2 cm) aluminum												
	AW9	Air bags, dual-stage, frontal, driver and right-front passenger and side-impact, first and second row outboard												
	CJ3	NEW! Air conditioning, dual-zone, manual												
	VVM	Console, overhead												
	E69	Door, power-sliding driver-side												
	B80	NEW! Floor mats, carpeted and color-keyed with contrasting edge, all rows												
	UH9	Instrumentation, Deluxe												
	V64	Luggage rack side rails, Sport, roof-mounted, bright												
	UD7	Rear Parking Assist												
	AB0	Seats, 7-passenger												
	UK3	Steering wheel controls, mounted audio controls												
	P04	NEW! Wheels, 17" (43.2 cm) aluminum												

[illegible]

S = Standard Equipment A = Available – (dashes) = Not Available D = ADJ 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.

Fire Flow RPO Code	Ref. Only RPO Code	Description	Front Wheel Drive Equipment Groups CU1416				Front Wheel Drive Extended Wheelbase CU12216					
			L2	L3	L5 Fleet	L5	L5 Fleet	Cargo	L7	L7	L7	
		1. Equipment Group 1LS available on the CU1416 Model.										
		2. Equipment Group 1FL available on the CU1416 Model and is available on the Fleet, Government or Commercial order type.	1LS	1LS	1FL	1LS	1FL	2FL	1L7	2L7	3L7	
		3. Equipment Groups 1LS, 2FL, 1LT, 1LS and 1FL are not available on the CU12216 Model.										
		4. Equipment Group 1FL available on the CU12216 Model and requires a Fleet, Government or Commercial order type.										
AK5		Air bags, dual-stage frontal, driver and right-front passenger 1. Always use safety belts and the correct child restraints for your child's age and size, even in vehicles with air bags. Children are safer when properly secured in a rear seat. See the Owner's Manual for more information. Child safety seat instructions for more safety information.	S ¹	S ¹	S ¹	S ¹	S ¹	S ¹	—	—	—	—

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File Flow RPO Code	Ref. Only RPO Code	Description	Front-Wheel Drive Regular Wheelbase CU1416		Front-Wheel Drive Extended Wheelbase CU12216					
			LS	LS Fleet FL2	LS FL3	LS Fleet FL4	Capo FL2	LT LT1	LT LT2	LT LT3
		1 - Equipment Group 1LS available on the CU1416 Model. 2 - Equipment Group 1FL available on the CU1416 Model and requires a Fleet, Government or Commercial order type. 3 - Equipment Groups 1LS, FL, FL1, FL2 and FL3 available on the CU12216 Model. 4 - Equipment Group 1FL available on the CU12216 Model and requires a Fleet, Government or Commercial order type.								
AJ7		Air bags, dual-stage frontal and side-impact, driver and right-front passenger. 1 - Always use safety belts and the correct child restraint for your child's age and size, even in vehicles equipped with air bags. Always use proper tie-down technique to secure a cargo load. See the vehicle's Owner's Manual and child safety seat instructions for more safety information. 2 - Always use safety belts and the correct child restraint for your child's age and size, even in vehicles equipped with air bags. Always use proper tie-down technique to secure a cargo load. See the vehicle's Owner's Manual and child safety seat instructions for more safety information. 3 - Included and only available with (ACW) Regular Production Accessory, SHN-Lift power seat or (ACW) Mobility Prep Package. 4 - Includes proper tie-down technique and the correct child restraints for your child's age and size, even in vehicles equipped with air bags. Children are safer when properly secured in a rear seat. See the vehicle's Owner's Manual and child safety seat instructions for more safety information.	A ¹	A ¹	A ¹	A ¹	A ¹	■ ¹	A ²	A ³

2007 Chevrolet Truck Uplander INTERIOR

File Flow RPO Code	Ref. Only RPO Code	Description	Front-Wheel Drive Regular Wheelbase CU1416		Front-Wheel Drive Extended Wheelbase CU12216					
			LS	LS Fleet FL2	LS FL3	LS Fleet FL4	Capo FL2	LT LT1	LT LT2	LT LT3
		1 - Equipment Group 1LS available on the CU1416 Model. 2 - Equipment Group 1FL available on the CU1416 Model and requires a Fleet, Government or Commercial order type. 3 - Equipment Groups 1LS, FL, FL1, FL2 and FL3 available on the CU12216 Model. 4 - Equipment Group 1FL available on the CU12216 Model and requires a Fleet, Government or Commercial order type.								
AW9		Air bags, dual-stage, frontal, driver and right-front passenger and side-impact, first and second row outboard. 1 - Not included when (Y36) Mobility Prep Package, family-use or accessory SHN-Lift power seat is ordered. Always use safety belts and the correct child restraints for your child's age and size, even in vehicles equipped with air bags. Children are safer when properly secured in a rear seat. See the vehicle's Owner's Manual and child safety seat instructions for more safety information.	-	-	-	-	-	-	■ ¹	■ ¹
	C60	Air conditioning, single-zone manual	S	S	S	S	S	S	-	-
	CJ3	NEW! Air conditioning, dual-zone, manual, climate control with individual climate settings for driver and right front passenger, manual climate control and rear seat heating/cooling outlets	-	-	-	-	-	-	■	■
C69		Air conditioning, rear auxiliary with heater and rear seat fan/temperature controls 1 - Requires (PCM) Climate Package. Not available with (FSW) rear window defogger not desired.	-	-	A ¹	A ¹	-	■	■	■
	US9	Audio system, AM/FM stereo with CD player and MP3 playback, seek-and-scan, digital clock, auto-tone control, Radio Data System (RDS), automatic volume, TheftLock and premium front and rear coaxial speakers 1 - Upgradable to (US9) APM stereo with MP3 playback, CD changer and MP3 playback or (U3U) AM/FM stereo with MP3 compatible navigation.	S	S	S	S	S	S	S ¹	S

File Flow RPO Code	Ref. Only RPO Code	Description	Front/Inboard Drive Regular Wheelbase CU11416		Front/Inboard Drive Extended Wheelbase CU12216					
			LS 11.5'	LS 11.7'	LS 11.7'	LS 11.9'	Cargo 21.3'	L7 11.7'	L7 21.3'	L7 21.3'
		1 - Equipment Group 1LS available on the CU11416 Model. 2 - Equipment Group 1FE available on the CU11416 Model and requires a Fleet, Government or Commercial order type. 3 - Equipment Groups 1LS, 2FL, 1LT, 2LT and 3LT available on the CU12216 Model. 4 - Equipment Group 1FE available on the CU12216 Model and requires a Fleet, Government or Commercial order type.								
	VD1	Regular production accessory. Accessory kit, console, floor, 2nd row 1 - For additional GM Accessory Offerings and Installation, please contact your local GM Accessory Distributor Installer (ADI). Cruise control, electronic with set and resumes speed 1 - Requires (APF) Remote Keyless Entry.	-	-	-	-	■	-	-	-
K34		Cruise control, electronic with set and resumes speed 1 - Requires (APF) Remote Keyless Entry.	A ¹	A ¹	A ¹	■	■	■	■	■
		Cup holders, dual front, quad second row and single third row	S	S	S	S	S	S	S	S
	C49	Defogger, rear-window electric 1 - Included and only available with (PCM) Climate Package.	A ¹	A ¹	A ¹	A ¹	■	■	■	■
R9W		Defogger, rear-window, not desired 1 - Knee Must specify (PCM) Climate Package. Rear window defogger not desired.	A ¹	A ¹	A	A ¹	-	-	-	-
		Door locks, rear child security	S	S	S	S	S	S	S	S
		Door locks, power programmable with lockout protection and delayed locking	S	S	S	S	S	S	S	S
	U42	Entertainment system, rear seat Deluxe overhead DVD-integrated player with remote control (batteries not included), A/V and headphones jacks, rear audio controls and 2 sets of infrared headphones	-	-	-	-	■	■	■	■
	UM5	Entertainment system, Mobile Digital Media Player by Phonocise with 40-gigabyte removable hard drive that connects to a PC providing the ability to download hundreds of hours of music, audio books, movies and games	-	-	-	-	-	-	-	■
B37		Floor mats, carpeted front, second and third row	-	A	-	A	-	■	-	-

File Flow RPO Code	Ref. Only RPO Code	Description	Front/Inboard Drive Regular Wheelbase CU11416		Front/Inboard Drive Extended Wheelbase CU12216					
			LS 11.5'	LS 11.7'	LS 11.7'	LS 11.9'	Cargo 21.3'	L7 11.7'	L7 21.3'	L7 21.3'
	B50	NEW! Floor mats, carpeted and color-keyed with contrasting edge, all rows	-	-	-	-	-	■	-	■
TX3		Headphones, 2 additional, infrared	-	-	-	-	-	A	A	A
	UH8	Instrumentation with coolant temperature, trip odometer and tachometer	S	S	S	S	S	S	-	-
	UH9	Instrumentation, Deluxe with coolant temperature, trip odometer, tachometer and Driver Information Center	-	-	-	-	-	■	■	■
AP8		Remote Keyless Entry, programmable 1 - Requires (K34) cruise control	A ¹	A ¹	A ¹	A ¹	■	■	■	■
		LATCH system (Lower Anchors and Top Tethers for Children), for child safety seats	S	S	S	S	S	S	S	S
		Lighting, interior, overhead second row	S	S	S	S	S	S	S	S
Y3H		Mobility Prep Package, paratransit (to lower the floor), includes (AB1) front bucket seats, second row seats removed and third row 50/50 split-folding bench, no floor coverings, extended length wiring harness, (V08) heavy-duty cooling (high-capacity radiator and 240-watt fan) and heavy-duty springs 1 - Includes 50/50 front bucket or Climate Package, (A17) dual-stage, front passenger air bags, (N85) 17" (43.2 cm) aluminum wheels, (F83) Steer and Secure Package and (L15) Suspension Package. Mobility upfitter required - Braun or Eldorado.	-	-	-	A ¹	-	-	-	-

Fire Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment Group 1LS available on the CU1146 Model. 2 - Equipment Group 1FL available on the CU1218 Model or Commercial Fleet, Government or Commercial order type. 3 - Equipment Groups 1LS, 2FL, 1LT, 3LT and 3LT available on the CU1218 Model. 4 - Equipment Group 1FL available on the CU1216 Model and Residential Fleet, Government or Commercial order type.	Front-Wheel Drive Regular Wheelbase CU1416				Front-Wheel Drive Extended Wheelbase CU1216							
			LS 1LS	LS Fleet TFL	LS 1LS	LS Fleet 1FL	Crop 2FL	LT 1L2	LT 2L2	LT 3L2				
PCC		Mobility Prep Package, paratransit upgrade, includes (E5B) power-sliding, passenger-side door, (AF6) Remote Keyless Entry, (A20) power rear quarter vent windows, (AJ7) side-impact, driver and right-front passenger air bags, (K34) cruise control and (PCM) Climate Package 1. Requires a Fleet, Government or Commercial order type and (VH) Mobility Prep Package, paratransit. Not available with (WT3) Ship-thru delivery method. 2. Requires a Fleet, Government or (VH) Ship-thru OEM Systems.	-	-	-	A ¹	-	-	-	-	-	-	-	-

Free Flow RPO Code	Ref. Only RPO Code	Description	Front-Wheel Drive Regular Wheelbase CU1216	LS 1L5 ¹	US Fleet FL2	LS Fleet 1LF ²	Cargo 2F ³	LT 1LT ³	LT 2LT ³	A ²
		<p>1 - Equipment Group 1LS available on CU11416 Model.</p> <p>2 - Suitable for use as a vehicle for the Fleet, Government or Commercial order type.</p> <p>3 - Equipment Groups 1LS, 2FL, LT², LT³ are not available on the CU12216 Model.</p> <p>4 - Equipment Group 1FL available on the CU12216 Model and Requires a Government or Commercial order type.</p>	Front-Wheel Drive Extended Wheelbase CU12216							
Y3G		<p>Mobility Prep Package, family-use, (to lower the floor), includes (ABI) Custom Cloth front bucket seats, second row seats removed and third row 50/50 split-bench, no floor coverings and extended length wiring harness</p> <p>1- Ship authorized mobility BAC for uplift required. Requires 17" (43.2 cm) aluminum wheels, (FE3) Steel Spare Tire Mount and (J4) StabilTrak. Not available with PCN Storage and Organizer Package or (AQW) Regular production accessories seat.</p> <p>Deletes (AW9) dual-stage, frontal, driver and right-front passenger air side impact, first and second row dual-stage, frontal and side-impact, driver and right-front passenger air side impact, first and second row child's age and size, even in vehicles equipped with air bags, secured in a rear seat. See the vehicle's Owner's Manual and child safety seat instructions for more information.</p> <p>2- Ship to authorized mobility BAC - Braun or Eldorado for uplift required. Requires 17" (43.2 cm) aluminum wheels, (FE3) Spare Tire Mount and (J4) Secure Package and (J4L) StabilTrak. Not available with PCN Storage and Organizer Package or (AQW) Regular production accessories, SIN-LTR power seat, Deletes (AW9) dual-stage frontal, driver and right-front passenger air side impact, first and second row outward air bags and (DTE) rear (A7J) dual-stage, frontal and side-impact, driver and right-front passenger air side impact, first and second row child's age and size, even in vehicles equipped with safety belts and air bags. Always use proper seating technique and always properly secured in a rear seat. See the vehicle's Owner's Manual and child safety seat instructions for more information.</p>	-	-	-	-	-	-	A ¹	A ²

Free Only RPO Code	Rel. RPO Code	Description	Front-Wheel Drive Regard Wheelbase: CU11416	Front Wheel Drive Wheelbase: CU12216
		1. Equipment Group 1LS available on the CU11416 Model.	1LS	1LS
		2. Equipment Group 1FL available on Fleet, Government or Commercial order type.	1LS 1FL	1LS 1FL
		3. Equipment Groups 1LS 2FL 1LT, 2LT and 3LT available on the CU11416 Model.	1LS 2FL 2LT	1LS 2FL 2LT
		4. Equipment Group 3LT available on the CU12216 Model and Requires a Fleet, Government or Commercial order type.	1LS 2FL 2LT 3LT	1LS 2FL 2LT 3LT
UE1		OnStar 1-Year of Safe and Sound plan. Includes Automatic Notification of Air Bag Deployment, Stolen Vehicle Location Assistance, Emergency Location Assistance, Assistance, Remote Door Unlock, OnStar Vehicle Diagnostics, Hands-Free Calling, AccidentAssist and Remote Horn & Lights 1 - OnStar services require vehicle electrical system (including battery, wireless service and GPS receiver) properly installed and operating for features to function properly. OnStar acts as a link to provide OnStar service. Diagnostics available on most 2004 MY and newer GM vehicles. 3LT model. Visit onstar.com for system limitations and details.	1S	1S
UEO		OnStar, not-installed Government order type. If the order type is FDB, (UEO) OnStar, not-installed will be forced on. 2 - Requires a Fleet or Government order type. If the order type is FDB, (UEO) OnStar, not-installed will be forced on. Not available with (Y36) Family Prep Package, family-use, (PCD) Power Window, or (PCC) Power Windows or (PCC) Overhead Rail System delete with OnStar.	A ¹	A ¹
VVL		Overhead Rail System, modular	I	I

File Only RPO Code	Rel. Only RPO Code	Description	Front/Wheel Drive Regular wheelbase CU1116				Front/Wheel Drive Extended Wheelbases CU1216			
		1 - Equipment Group '1L' available on the CU1116 Model. '1F' available on the CU1116 Model and Requires a Fleet, Government or Commercial order type. 2 - Equipment Group '1L' available on the CU1216 Model and Requires a Fleet, Government or Commercial order type. 3 - Equipment Groups '1L', '2F', '1T', '2T', '3T' available on the CU1216 Model. 4 - Equipment Group '1F' available on the CU1216 Model and Requires a Fleet, Government or Commercial order type.	LS	LS Front	LS	LS Front	Cargo	L7	L7	L7
			11'6"	11'6"	11'8"	11'6"	20'3"	11'7"	21'9"	11'3"
PCU		Overhead Rail System delete, deletes (VWL) OnStar and (U4Z) entertainment system 1 - Requires a Fleet, Government or Commercial order type. Also requires (VWU) Overhead Storage Console, (VEH) overhead storage console, (E3S) power-sliding, driver-side mirrors, (D4G) illuminated visor vanity mirrors with (D3A) visor vanity mirrors and (AWV) dual-stage, frontal, driver and right-front passenger and side impact, first and second row head-impact protection (VWU) impact, first and second row head-impact, dual-stage, frontal and side-impact, driver and right-front passenger air bags, child restraint seats with air bags. Children are safer when properly secured in a rear seat. See the Owner's Manual for more safety information. Not available with (UEO) OnStar, not installed or (PCL) OnStar. 2 - Requires a Fleet, Government or Commercial order type or (Y3G) Auxiliary Power (VWL), family-use, console, (VEN) overhead storage console, (E3S) power-sliding, illuminated visor vanity mirrors with (AWV) dual-stage, frontal, driver and right-front passenger and side impact, dual-stage, frontal and side-impact, bags. 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. Not available with (UEO) OnStar, not installed or (PCL) OnStar. Overhead Rail System delete with	-	-	-	-	-	A ¹	A ²	-

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Free Flow RPO Code	Ref. Only RPO Code	Description	Front Wheel Drive Regular Wheelbase CU1416					Front Wheel Drive Extended Wheelbase CU1216				
			LS	LS 1LS	LS 1LS2	LS 1LS3	LS 1LS4	LS	LS 1LS	LS 1LS2	LS 1LS3	LS 1LS4
		1 - Equipment Group 1LS available on the CU1416 Model. 2 - Equipment Group 1FL available on the CU1416 Model and requires a power sliding door and commercial order type. 3 - Equipment Groups 1LS, 2FL, 1LT, 2LT and 3LT available on the CU1216 Model. 4 - Equipment Group 1FL available on the CU1216 Model and requires a power sliding door and commercial order type.										
	KC7	Power outlet, auxiliary, 115-volt 1 - Included and only available with (PDD) Convenience Package. Deleted when (Y3G) Mobility Prep Package, family use is ordered. 2 - Includes leather-appointed seating surfaces, (AG2) 6-way power front passenger seat adjuster and (KA1) heated driver and right-front passenger seats 1 - Must order ("2") leather-appointed seating surfaces. Requires (R8) second row side-folding utility tray. Also requires a fleet, government or military use package. (Y3G) Mobility Prep Package, family use, (KA1) heated, driver and front passenger seats are not included with this package. The system delete or (PCL) Overhead Rail System delete with OnStar is selected.										
	PCV	Premium Seating Package. Includes leather-appointed seating surfaces, (AG2) 6-way power front passenger seat adjuster and (KA1) heated driver and right-front passenger seats 1 - Must order ("2") leather-appointed seating surfaces. Requires (R8) second row side-folding utility tray. Also requires a fleet, government or military use package. (Y3G) Mobility Prep Package, family use, (KA1) heated, driver and front passenger seats are not included with this package. The system delete or (PCL) Overhead Rail System delete with OnStar is selected.										
	AQW	Regular production accessory. Seat, power, Sit-N-Lift, 2nd row right-hand side, includes hand-held remote control and slide-out footrest 1 - Requires option (AQW) Regular Re-confirm option (AQW) Regular production accessory, Sit-N-Lift power seat, not available with (Y3G) Mobility Prep Package, family use. Requires (ABD) 7-passenger seating. Requires 17" includes (AJ7) dual-stage, frontal, and side-impact driver and right-front passenger air bags. Always use properly belted proper child restraints, even with air bags. Children are safer when properly restrained. For additional GM information, see your local GM Accessory Distributor Installer (ADI).										

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Free Flow RPO Code	Ref. Only RPO Code	Description	Front Wheel Drive Regular Wheelbase CU1416					Front Wheel Drive Extended Wheelbase CU1216				
			LS	LS 1LS	LS 1LS2	LS 1LS3	LS 1LS4	LS	LS 1LS	LS 1LS2	LS 1LS3	LS 1LS4
		1 - Equipment Group 1LS available on the CU1416 Model. 2 - Equipment Group 1FL available on the CU1416 Model and requires a power sliding door and commercial order type. 3 - Equipment Groups 1LS, 2FL, 1LT, 2LT and 3LT available on the CU1216 Model. 4 - Equipment Group 1FL available on the CU1216 Model and requires a power sliding door and commercial order type.										
	PCL	Overhead Rail System delete with OnStar, deletes (VVL) Overhead Rail System and (U42) entertainment system 1 - Requires a Fleet or Government order type. Also removes (VVM) Overhead console, (E59) power-sliding, driver-side door and (UD7) Rear Parking Assist. Replaces the (AW9) dual-stage, front and side-impact air bags with (AJ7) dual-stage, frontal and side-impact air bags. Always use safety belts and proper child restraints, even with air bags. Children are safer when properly restrained. For additional GM information, see your local GM Accessory Distributor Installer (ADI). (UED) OnStar, not-installed or (PCU) Overhead Rail System delete.										
	VEH	Overhead storage consoles, 2 removable 1 - Included and only available with (PCN) Storage and Organizer Package.										
	V39	Overhead storage console, 1 removable										
		Power outlet, front auxiliary, 12-volt										

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Flow RPO Code	Ref. Only RPO Code	Description	Front-Whipl Drive Regular Wheelbase CU1416		Front-Whipl Drive Extended Wheelbase CU1226					
			LS CU1	LS Front IF1	LS IF2	LS Front IF3	Cargo 2F1	LT 4L1	LT 2L1	LT 3L1
		1 - Equipment Group 1LS available on the CU1416 Model. 2 - Equipment Group 1FL available on the CU1416 Model and Requires a Fleet, Government or Commercial order type. 3 - Equipment Groups 1LS, 2FL, 1LT, 2LT and 3LT available on the CU1226 Model. 4 - Equipment Group 1FL available on the CU1226 Model and Requires a Fleet, Government or Commercial order type.								
R6W		Re-confirm option (AOV) Regular production accessory, Sit-N-Lift power seat desired. 1 - Requires (AOV) Regular production accessory, Sit-N-Lift power seat.	-	-	-	-	-	-	A ¹	A ¹
AP3		Remote vehicle starter system. Includes Remote Keyless Entry.	-	-	-	-	-	A	A	A
AN2		Seat, integral child, single in second row passenger-side bench. 1 - Requires (AOV) Easy power driver seat desired (AOV) dual-stage, frontal and side-impact bags and (C) bottom cloth. 2 - Requires (AOV) power driver seat adjuster (AOV) dual-stage, frontal and side-impact, driver and right-front passenger air bags and (C) Custom Cloth is ordered. Not available with (Y3H) Mobility Prep Package, paramount.	-	A ¹	-	A ²	-	■	-	-
	ABA	Seats, 7-passenger, front bucket, removable second row modular bucket seats (2 without armrests) and third row 50/50 split-folding bench. 1 - Includes single integral child seat.	S	S	S	S	-	S ¹	-	-
	ABD	Seats, 7-passenger, front bucket, second row captain's chairs with inboard armrests and third row 50/50 split-folding bench. 1 - Second row captain's chairs are not removable.	-	-	-	-	-	-	■ ¹	■ ¹
	ABF	Seats, Cargo Van, 3-passenger, single crew seat, second row passenger-side	-	-	-	-	■	-	-	-

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Flow RPO Code	Ref. Only RPO Code	Description	Front-Whipl Drive Regular Wheelbase CU1416		Front-Whipl Drive Extended Wheelbase CU1226					
			LS CU1	LS Front IF1	LS IF2	LS Front IF3	Cargo 2F1	LT 4L1	LT 2L1	LT 3L1
		1 - Equipment Group 1LS available on the CU1416 Model. 2 - Equipment Group 1FL available on the CU1416 Model and Requires a Fleet, Government or Commercial order type. 3 - Equipment Groups 1LS, 2FL, 1LT, 2LT and 3LT available on the CU1226 Model. 4 - Equipment Group 1FL available on the CU1226 Model and Requires a Fleet, Government or Commercial order type.								
ABG		Seats, Cargo Van, 2-passenger, no crew seat. 1 - Requires (W19) Ship-thru upfitter, Adrian Steel or (W12) Ship-thru upfitter, for installation of a certified partition. Partition installation may be obtained through ADP or Business Choice upfitter. (AOV) Business Choice Uphol, partition package or (R17) Commercial package (AOV) Commercial bin and partition or direct payment to (W19) Ship-thru upfitter, Adrian Steel or (W12) Ship-thru upfitter, Midwest.	-	-	-	-	A ¹	-	-	-
	ABI	Seats, front bucket, second row seats removed and third row 50/50 split-folding bench. 1 - Included and only available with (Y3H) Mobility Prep Package, paramount. 2 - Included and only available with (Y3H) Mobility Prep Package, family-use.	-	-	-	-	A ¹	A ²	A ²	A ²
	ABM	Seats, third row delete, 4-passenger, 2 second row modular bucket seats without armrests (third row seating removed) 1 - Requires a Fleet or Government order type. 2 - Requires (Y3G) Mobility Prep Package, paramount and second row captain's chairs instead of second row modular bucket seats.	-	-	A ¹	A ¹	A ¹	-	A ¹	A ¹
	KA1	Seats, heated driver and front passenger. 1 - Included and only available with (PCV) Premium Seating Package.	-	-	-	-	-	-	A ¹	■

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Fire Flow RPO Code	Ref. Only RPO Code	Description	Front Wheel Drive Regular Wheelbase CU1416							Front-Wheel Drive Extended Wheelbase CU12216						
			L5 1L3	L5 1FL	L5 1LS	L5 Fleet 1FL	L5 Fleet 1LS	Cargo 3FL	L7 1LT	L7 2LT	L7 3LT					
		1 - Equipment Group IEL available on the CU1416 Model. 2- Equipment Group IEL available on the CU1416 Model and Requires a Fleet Government or Commercial Typing Package (YH) 3- E-Series Gauge (LS-ZPL 1LT, 2LT and 3LT available on the CU12216 Model). 4- Equipment Group IEL available on the CU12216 Model requires a Fleet Government or Commercial order type.	-	A¹	-	A¹	A	-	-	-	-					
AG1		Seat adjuster, driver 6-way power 1- If ("G) Base Cloth trim is selected, front door latch design, front door and right front passenger air bags is standard, but required to (A-JT) dual-stage, front, driver and side-impact air bags. 2- Custom Cloth trim is required if ("C) Custom Cloth trim is selected, front door and right front passenger and side-impact air bags are required integral child seat are required.	-	-	-	-	-	A	-	-	-					
AG2		Seat adjuster, front passenger 6-way power 1- Included and only available with (PCJ) Premium Seating Package.	-	-	-	-	-	-	-	-	-	A¹	-	-	-	-
PDY		Security Package, includes (UAE) theft-deterrent alarm system (UG1) Universal Home Remote and (KC7) 115-volt power outlet 1- Not available with (PCU) Overhead Rail System delete or (PCL) Overhead Rail System delete 2- Available with (WUZ) Prep Package, family-use is ordered, other than (KC7) 115-volt power outlet is deleted.	-	-	-	-	-	-	-	-	-	A¹	-	-	-	-
WT5		Ship-thru up/lifter, Adrian Steel 1- Not available with (WUZ) Ship-thru up/lifter, Mastertrack or (VHI) Ship-thru OEM Systems. 2- Not available with (WUZ) Ship-thru OEM Systems, (VHI) Mobility Prep Package, paratransit. 3- Not available with (WUZ) Ship-thru OEM Systems, (YHG) Mobility Prep Package, family-use equipment, wheelchair lift, ramp access, acceptor, ship-lift, power vent.	A¹	A¹	A²	A¹	A²	A¹	A³	A³	A³	A²	A³	A³	A³	A³

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Free Flow RPO Code	Ref. Only RPO Code	Description 1 - Equipment Group 1L3 available on Fleet, Government or Commercial order type. 2 - Equipment Group 1FL available on Fleet, Government or Commercial order type. 3 - Equipment Groups 1LS, 2FL, 1LT, 2FL, 3LT available on the CU12216 Model. 4 - Equipment Group 1FL available on the CU12216 Model and Requires a Fleet, Government or Commercial order type.	Front-Wheel Drive Regular Wheelbases CU1418				Front-Wheel Drive Extended Wheelbase CU12216			
			LS 1LS ^a	LS Fleet 1FL ^b	LS 1LS ^c	LS Fleet 1FL ^d	Cargo 2FL ^e	LT 1LT ^f	LT 2LT ^g	LT 3LT ^h
WU2		Ship-thru upfitter, Masterack 1 - Not available with (WT5) Ship-thru upfitter, Adrian Steel or (VH) Ship-thru OEM Systems. 2 - Not available with (WT5) Ship-thru upfitter, Adrian Steel, (VH) Ship-thru OEM Systems or (Y3H) Mobility Prep Package, paratransit. 3 - Not available with (WT5) Ship-thru upfitter, Adrian Steel, (VH) Ship-thru OEM Systems, (Y3G) Mobility Prep Package, family-use or (ADW) Regular production accessory, SHN-Lift power seat.	A ¹	A ¹	A ¹	A ²	A ¹	A ²	A ³	
VH1		Ship-thru OEM Systems 1 - Not available with (WT5) Ship-thru upfitter, Adrian Steel or (VH) Ship-thru upfitter, Masterack. 2 - Not available with (WT5) Ship-thru upfitter, Adrian Steel, (WU2) Ship-thru upfitter, Masterack or (Y3H) Mobility Prep Package, paratransit. 3 - Not available with (WT5) Ship-thru upfitter, Adrian Steel, (WU2) Ship-thru upfitter, Masterack, (Y3G) Mobility Prep Package, family-use or (ADW) Regular production accessory, SHN-Lift power seat.	A ¹	A ¹	A ¹	A ²	A ¹	A ²	A ³	
R8C		Cargo area liner, standard, completes final assembly. Must order when no other uplift is required. NO CHARGE 1 - Includes (WT5) Ship-thru upfitter, Adrian Steel, Not available with (VH) Ship-thru upfitter, Masterack or (VH) Ship-thru OEM Systems.	-	-	-	-	A ¹	-	-	
N30		Steering column, Tilt-Wheel	S	S	S	S	S	S	S	
UK3		Steering wheel, urethane	S	S	S	S	S	-	-	
		Steering wheel controls, mounted audio controls, includes (NK4) leather-wrapped steering wheel	-	-	-	-	-	-	-	
		Storage, open, located below instrument panel	S	S	S	S	S	-	-	
D55		Storage, covered, non-locking, located below instrument panel	-	-	-	-	-	-	-	

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File Flow RPO Code	Ref. Only RPO Code	Description	Front-wheel Drive Regular Wheelbase RPO CU1416		Front-wheel Drive Extended Wheelbase CU2216					
			LS 1LS	LS Fleet 1L	LS Fleet 1LS	LS Fleet 1L	Cargo 2PL	LT 1LT	LT 2LT	LT 3LT
		1 - Equipment Group 1LS available on the CU1416 Model. 2 - Equipment Group 1FL available on the CU1416 Model and Requires a Fleet, Government or Commercial order type. 3 - Equipment Groups 1LS, 2FL, 1LT, 2LT and 3LT available on the CU2216 Model. 4 - Equipment Group 1FL available on the CU2216 Model and Requires a Fleet, Government or Commercial order type.								
PCN		Storage and Organizer Package, includes (D/E) rear cargo convenience center, rear cargo partition and (VEH) Regular production accessory and 2 overhead storage consoles. 1 - Not available with (AOW) Regular production accessory, SH-4-Lift power seat, (PCU) Overhead Rail System and (RSD) Rear Side System delete with (OAS) Overhead Mobility Prep Package, family-use, delete, (ABW) rear cargo net when ordered.	-	-	-	-	-	-	A ¹	-
		III Theft-deterrent system, Pass-Key	S	S	S	S	S	S	S	S
	U46	Theft-deterrent system included and only available with (PDJ) Security Package.	-	-	-	-	-	-	A ¹	■
	D4V	Utility tray, front seat, side-folding	-	-	-	-	-	■	■	■
TBS		Utility tray, second row, side-folding	-	-	-	-	-	-	A ¹	■
		1 - Equipped with (PCJ) Premium Side-Door Storage System (YSD) Mobility Prep Package, family-use is ordered, must select (ABW) third row seat delete.								
	UG1	Universal Home Remote 1 - Included and only available with (PDJ) Security Package.	-	-	-	-	-	-	A ¹	■
	D34	Visors, driver and front passenger vanity mirrors	S	S	S	S	S	-	-	-
	D16	Visors, driver and front passenger illuminated vanity mirrors	-	-	-	-	-	■	■	■
	A31	Windows, power front with driver Express-Down	S	S	S	S	S	S	S	S
	A20	Windows, power rear quarter vent 1 - Included and only available with (PDJ) Convenience Package, passenger's update.	-	-	-	-	-	-	-	-

2007 Chevrolet Truck Uplander EXTERIOR

S = Standard Equipment A = Available - (dash) = Not Available D = ADI Available
 ■ = Included in Equipment Group □ = Included in Equipment Group but upgradable
 *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.

File Flow RPO Code	Ref. Only RPO Code	Description	Front-wheel Drive Regular Wheelbase RPO CU1416		Front-wheel Drive Extended Wheelbase CU2216					
			LS 1LS	LS Fleet 1L	LS Fleet 1LS	LS Fleet 1L	Cargo 2PL	LT 1LT	LT 2LT	LT 3LT
		1 - Equipment Group 1LS available on the CU1416 Model. 2 - Equipment Group 1FL available on the CU1416 Model and Requires a Fleet, Government or Commercial order type. 3 - Equipment Groups 1LS, 2FL, 1LT, 2LT and 3LT available on the CU2216 Model. 4 - Equipment Group 1FL available on the CU2216 Model and Requires a Fleet, Government or Commercial order type.								
		Antenna, fixed-mast	S	S	S	S	S	S	S	S
		Bumpers, front and rear, 5 mph	S	S	S	S	S	S	S	S
PCM		Climate Package, includes (A11) Solar-Ray deep-tinted glass, (C49) rear window defogger, (DR5) outside heated power-adjustable mirrors and (C25) rear wiper. 1 - Note: Must specify (PCM) Climate Package or (B3W) rear window defogger not desired. 2 - Note: Must specify (PCM) Climate Package or (B3W) rear window defogger not desired. Climate Package or (B3W) rear window defogger (A11) Solar-Ray deep-tinted glass deleted when (ABW) opaque glass is ordered.	A ¹	A ¹	A ¹	A ¹	A ²	■	■	■
	T61	Daytime Running Lamps	S	S	S	S	S	S	S	S
		Door, manual-sliding driver-side	S	S	S	S	S	-	-	-
		Door, manual-sliding passenger-side	S	S	S	S	S	-	-	-
	E56	Door, power-sliding passenger-side, controlled by interior switch or key fob transmitter 1 - Included and only available with (PCJ) Mobility Prep Package.	-	-	-	-	-	■	■	■
	E59	Door, power-sliding driver-side, controlled by interior switch or key fob transmitter 1 - Included and only available with (PDD) Convenience Package.	-	-	-	-	-	A ¹	■	■
	D72	Door handles, Black	S	S	S	S	S	-	-	-
	D76	Door handles, body-color	-	-	-	-	-	-	■	■
		Glass, Solar-Ray light-tinted	S	S	S	S	S	-	-	-

Free Flow RPO Code	Ref.	Description	Front-Wheel Drive Requires Wheelbase CU12216							
			Front-Wheel Drive Requires Wheelbase CU1416		Front-Wheel Drive Extended Wheelbase CU12216					
			LS 1L3	LS First *FL2	LS 1L3	LS First 1FL4	Charge 2FL2	LT 1L7	LT 2L7	LT 3L7
	AJ1	1 - Equipment Group 1LS available on the CU1418 Model. 2 - 55-Flat Tire Package. *FL2 available on the CU1416 Model and Required as Fleet, Government or Commercial order type. 3 - Equipment Groups 1LS, 2FL, 1LT, 1L7 are available on the CU12218 Model. 4 - Equipment Group 1FL available on the CU12216 Model and Requires a Fleet, Government or Commercial order type.	A ¹	A ¹	A ¹	A ¹	A ¹	■	■	■
ASW		Glass, Solar-Ray deep-tinted mid-rear-side and light available with 1-Included and only available with PCM Climate Package.	-	-	-	-	A	-	-	-
V41		Glass, Opaque Headlamps, halogen composite with automatic exterior lamp control	S	S	S	S	S	S	S	S
V59		Inflator kit, with hose pressure gauge and vinyl bag 1 - Included and only available with (FE3) Safe and Secure Package.	-	A ¹	-	A ¹	-	-	A ¹	A ¹
V64		Luggage rack side rails, roof-mounted, Black	-	A	-	A	A	■	-	-
VGG		Luggage rack side rails, Sport, roof-mounted, bright	-	-	-	-	-	-	■	■
		Regular production accessory. Bumper kit, rear, protector 1 - For additional GM Accessory Offerings and installation, please contact your nearest GM Accessory Distributor Installer (ADI).	-	-	-	-	-	-	A/D ¹	A/D ¹
DL6		Mirrors, outside power-adjustable, Black, manual-folding	S	S	S	S	S	-	-	-
DR5		Mirrors, outside heated power-adjustable, Black, manual-folding 1 - Included and only available with PCM Climate Package.	A ¹	A ¹	A ¹	A ¹	A ¹	■	■	■
		Moldings, Black body-side	S	S	S	S	S	-	-	-
B86		Moldings, body-color body-side	-	-	-	-	-	■	■	■
UD7		Rear Parking Assist 1 - Included and only available with (PDD) Convenience Package.	-	-	-	-	-	A ¹	■	■
		Tire, compact spare , includes underbody carrier and host	S	S	S	S	S	S	S	S
QKY		Tires, P225/60R17 all-season, blackwall	S	S	S	S	S	S	S	S

Free Flow RPO Code	Ref. Only RPO Code	Description	Front-Wheel Drive Regular Wheelbase CUI1416				Front-Wheel Drive Extended Wheelbase CUI1216			
			LS 1LS ¹	LS Fleet 1FL ²	LS 1LS ³	LS Fleet 1FL ⁴	Cargo 2FL ⁵	L7 1L7 ⁶	L7 2L7 ⁷	L7 3L7 ⁸
		1. Equipment Group 1LS available on the CUI1416 Model. 2. CUI1416 Model. 3. Equipment Groups 1LS, 2FL, 1L7, 1FL, 2FL, 1L7 are available on the CUI1216 Model. 4. Equipment Group 1FL available on the CUI12216 Model and Requires a Fleet, Government or Commercial order type.								
	QLR	Tires, P225/60R17 all-season, blackwall 1. Included and only applicable with (FEC) Safe and Secure Packages.	-	A ¹	-	A ¹	-	-	A ¹	
	QR5	Wheels, 17" (43.2 cm) steel with bolt-on wheel covers	S	S	S	S	S	-	-	
NB5		Wheels, 17" (43.2 cm) aluminum	A	A	A	A	A	■	-	
P04		NEW! Wheels, 17" (43.2 cm) aluminum	-	-	-	-	-	A	■	
P23		NEW! Wheels17" (42.3 cm) 5-spoke, bright chrome clad aluminum	-	-	-	-	-	-	A A	
	C25	Wipers, front intermittent Wiper, rear intermittent with washer 1. Included and only available with (PCMI) Climate Package.	S	S	S	S	S	S	S	
			A ¹	A ¹	A ¹	A ¹	A ¹	■	■	

2007 Chevrolet Truck Uplander

Free Part PNF Code	Ref. Qty RPO Code	Description	Front-Wheel Drive Extended Wheelbase CUJ2216						
			Regular Wheelbase CUJ448						
		1 - Equipment Group ILS available on the CUJ1416 Model.	L5 1L5	L5 Fleet 1FL5	L5 1L5	Cargo 2FL5	L7 1L7	L7 2L7	A ²
		2 - Equipment Group IFL available on the CUJ1416 Model and Requires a Fleet Government or Commercial Package and (JL4) StabilTrak.							
		3 - Equipment Groups 1L5, 1FL, 1LT, 2LT and 3LT available on the CUJ2216 Model.							
		4 - Equipment Group IFL available on the CUJ2216 Model and Requires a Fleet, Government or Commercial order type.							
FE3		Safe and Secure Package. Includes (G67) automatic level control, (V41) Inflator kit and (QLR) PZ2960RT1 all-season tires 1 - Requires (N85) 17" (43.2 cm) x 7" (17.8 cm) wheels (includes a) StabilTrak Package and (JL4) StabilTrak. 2 - Requires (JL4) StabilTrak on Fleet and Government order types.	-	A ¹	-	A ¹	-	A ²	A ²
JL4		StabilTrak stability control system 1 - Requires (NW9) traction control.	A ¹	A ¹	S	S	S	S	S
R8E		StabilTrak, not desired 1 - Also deletes (NW9) Traction control. Requires a Fleet, Government or Commercial order type. Not available with (FE3) Safe and Secure Package. 2 - Also deletes (NW9) Traction control. Must specify (JL4) StabilTrak. Not available with (FE3) Safe and Secure Package.	-	-	A ¹	A ¹	A ²	A ¹	A ¹
		Steering, power, rack-and-pinion	S	S	S	S	S	S	S
FE1		Suspension, Soft Ride	S	S	S	S	S	S	S
V92		Trailling Provision Package. Includes wiring harness, (KC4) engine oil cooler and (V08) heavy-duty cooling fan. 1 - Requires (FE3) Safe and Secure Package. 2 - Requires (C69) auxiliary rear air conditioning and (FE3) Safe and Secure Package.	-	A ¹	-	A ²	-	A ¹	A ¹
NW9		Traction control, all-speed 1 - Required with (JL4) StabilTrak or available separately. 2 - Available separately when (R8E) StabilTrak not desired is ordered.	A ¹	A ¹	S ²	S ²	S ²	S ²	S ²
MX0		Transmission, 4-speed automatic, electronically controlled with overdrive	S	S	S	S	S	S	S

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.							
Decor Level	Seat Type	Seat Code	Seat Trim	Interior			
				Medium Gray	Cashmere		
1LS, 1FL	2nd row modular bucket seats (2) without armrests and 3rd row 50/50 split-bench	ABA	Base Cloth	17B	34B		
2FL	Cargo Van, 3-passenger, single crew seat	ABF	Base Cloth	17B	34B		
1LS, 1FL, 2FL	3rd row seat delete, 4-passenger, 2 - 2nd row modular bucket seats without armrests (3rd row seating removed)	ABM	Base Cloth	17B	34B		
1FL with Y3H	Front bucket, 2nd row seats removed and 3rd row 50/50 split-bench	ABI	Base Cloth	17B	34B		
2FL	Cargo Van, 2-passenger, no crew seat	ABG	Base Cloth	17B	34B		
1FL	2nd row modular bucket seats (2) without armrests and 3rd row 50/50 split-bench	ABA	Custom Cloth ¹	17C	34C		
1FL	3rd row seat delete, 4-passenger, 2 - 2nd row modular bucket seats without armrests (3rd row seating removed)	ABM	Custom Cloth	17C	34C		
1LT	2nd row modular bucket seats (2) without armrests and 3rd row 50/50 split-bench	ABA	Custom Cloth	17C	34C		
2LT	2nd row captain's chairs and 3rd row 50/50 split-bench	ABD	Custom Cloth	17C	34C		
2LT	3rd row seat delete, 4-passenger, 2 - 2nd row Captain's Chairs (3rd row seating removed)	ABM	Custom Cloth	17C	34C		
1FL with Y3H	Front bucket, 2nd row seats removed and 3rd row 50/50 split-bench	ABI	Custom Cloth	17C	34C		
2LT with Y3G	2nd row captain's chairs and 3rd row 50/50 split-bench	ABD	Leather-appointed seating surfaces ²	17Z	34Z		
2LT, 3LT	3rd row seat delete, 4-passenger, 2 - 2nd row Captain's Chairs (3rd row seating removed)	ABM	Leather-appointed seating surfaces ²	17Z	34Z		
2LT with Y3G	Front bucket, 2nd row seats removed and 3rd row 50/50 split-folding bench	ABI	Leather-appointed seating surfaces ²	17Z	34Z		
3LT with Y3G							
Exterior Solid Paint		Color Code	Touch Up Paint Number	Interior			
Exterior Solid Paint		Color Code	Touch Up Paint Number	Medium Gray	Cashmere		
Exterior Solid Paint		Color Code	Touch Up Paint Number				

2007 Chevrolet Truck Uplander COLOR AND TRIM - SOLID PAINT

Dark Blue Metallic	25U	WA-72ZJ	A	A
NEW! Polar Blue Metallic	35U	WA-409P	A	A
Blue Granite Metallic	46U	WA-928L	A	A
Bordeaux Red Metallic	49U	WA-204M	A	A
Summit White	50U	WA-86Z4	A	A
NEW! Gold Mist Metallic	51U	WA-318N	-	A
Silverstone Metallic	67U	WA-994L	A	-

1 - Requires (A1Z) Integral child seat.
2 - Requires (PCV) Premium Seating Package.

2007 Chevrolet Truck Uplander ONSTAR FLEET CODES

S = Standard Equipment A = Available - (dashes) = Not Available D = ADI 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.

Fleet RPO Code	Ref. Only RPO Code	Description	Front-wheel Drive				Front-wheel Drive Extended Wheelbase			
			1.5 CU1416	1.5 Front 4x2	1.5 CU1416	1.5 Front 4x4	1.5 CU1416	1.5 Front 4x4	1.5 CU1416	1.5 CU1416
R8G		OnStar 1 Additional Year of Sale and Sound Service (MSRP= \$199). Provides 1 year of Safe and Sound service following the first year of OnStar service included in the price of the vehicle. Fleet may also order (RFB) 2-years OnStar Business Vehicle Manager Service	A ¹	A ¹	A ¹	A ¹	-	A ¹	A ¹	A ¹
		1 - Available on all OnStar-enabled Fleet or Government order types: FLS, FNR, FRC, FRC, FGO or FER. R8Z is available with (R8Y) or OnStar delete.								
R8P		OnStar 2 Additional Years of Sale and Sound Service (MSRP= \$379). Provides 2 additional years of Safe and Sound service following the first year of OnStar service included in the price of the vehicle. Fleet may also order (RFB) 3-years OnStar Business Vehicle Manager Service	A ¹	A ¹	A ¹	A ¹	-	A ¹	A ¹	A ¹
		1 - Requires one of the following Fleet or Government order types: FLS, FNR, FRC, FRC, FGO or FER. R8Z is available with (R8Y) or R8Z. Not available with (UEO) OnStar delete.								

Free Flow RPO Code	Ref. Only RPO Code	Description	Front-Wheel Drive Extended Wheelbase CU12216					
			LS 1LS	LS Fleet 1LS ¹	LS ² 1LS ²	LS Fleet 1LS ²	Chgo 2LT ²	LT 2LT ²
		1 - Equipment Group 1LS available on the CU11416 Model. 2 - Equipment Group 1FL available on the CU11416 Model and Requires a Fleet, Government or Commercial order type. 3 - Equipment Groups 1LS, 2FL, 1LT, 2LT and 3LT available on the CU12216 Model. 4 - Equipment Group 1FL available on the CU12216 Model and Requires a Fleet, Government or Commercial order type.						
R8W		OnStar 1-Year Directions and Connections Service (MSRP=\$100) Provides an upgrade from Safe and Sound service included in the price of the vehicle in the first year. Fleet may also order (RFA) 1-Year OnStar Business Vehicle Manager Service 1 - Requires one of the following Fleet or Government order types: R8Z, R8Y, R8Z or R8Y. Not available with R8G, R8P, R8Y or R8Z. Not available with (UE0) OnStar delete.	A ¹	A ¹	A ¹	A ¹	-	A ¹
R8Y		OnStar 2-Years Directions and Connections Service (MSRP=\$399) Provides cumulative 2 Years of Directions and Connections service. In the first year, this is an upgrade from Safe and Sound service included in the price of the vehicle. Fleet may also order (RFB) 2-Years OnStar Business Vehicle Manager Service 1 - Requires one of the following Fleet or Government order types: R8Z, R8Y, R8Z or R8Y. Not available with R8G, R8P, R8Y or R8Z. Not available with (UE0) OnStar delete.	A ¹	A ¹	A ¹	A ¹	-	A ¹

Free Flow RPO Code	Ref. Only RPO Code	Description	Front-Wheel Drive Regular Wheelbase CU1416			Front-Wheel Drive Extended Wheelbase CU12216				
			LS 1LS	LS Fleet 1LS ¹	LS ² 1LS ²	LS 1LS	LS Fleet 1LS ¹	LS ² 1LS ²	Chgo 2LT ²	LT 2LT ²
		1 - Equipment Group 1LS available on the CU11416 Model. 2 - Equipment Group 1FL available on the CU11416 Model and Requires a Fleet, Government or Commercial order type. 3 - Equipment Groups 1LS, 2FL, 1LT, 2LT and 3LT available on the CU12216 Model. 4 - Equipment Group 1FL available on the CU12216 Model and Requires a Fleet, Government or Commercial order type.								
R8Z		OnStar 3-Years Directions and Connections Service (MSRP=\$579) Provides cumulative 3 Years of Directions and Connections service. In the first year, this is an upgrade from Safe and Sound service included in the price of the vehicle. Fleet may also order (RPC) 3-Year OnStar Business Vehicle Manager Service 1 - Requires one of the following Fleet or Government order types: R8Z, R8Y, R8Z or R8Y. Not available with R8G, R8P, R8Y or R8Z. Not available with (UE0) OnStar delete.	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	-	A ¹
RFA		OnStar 1-Year Business Vehicle Manager Service (MSRP=\$25) Provides one year of OnStar Business Vehicle Manager Service 1 - Requires one of the following Fleet or Government order types: R8Z, R8Y, R8Z or R8Y. Not available with R8G, R8P, R8Y or R8Z. Not available with (UE0) OnStar delete.	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	-	A ¹
RFB		OnStar 2-Years Business Vehicle Manager Service (No charge) Provides two years of OnStar Business Vehicle Manager Service 1 - Requires one of the following Fleet or Government order types: R8Z, R8Y, R8Z or R8Y. Not available with R8G, R8P, R8Y or R8Z. Not available with (UE0) OnStar delete.	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	-	A ¹

ONSTAR FLEET CODES

Flow Code	Rel. Code	Rel. Only Code	Description	Front-Wheel Drive Regular Wheelbases CU1416	Front-Wheel Drive Extended Wheelbases CU1216
			1. Equipment Group 115 available on CU1416 Model. 115L available on CU1416 Model and Requires a Fleet Government or Commercial order type.	1.5L 115L	1.5L Fleet 115L
			2. Equipment Group 115L available on CU1416 Model and Requires a Fleet Government or Commercial order type.	1.5L Fleet 115L	1.5L Fleet 115L
			3. Equipment Group 115L 20L 117L 21C and 21T available on the CU12216 Model.	1.5L Fleet 115L 20L 117L 21C and 21T	1.5L Fleet 115L 20L 117L 21C and 21T
			4. Equipment Group 116L available on CU12216 Model and Requires a Fleet Government or Commercial order type.	1.5L Fleet 116L 21C and 21T	1.5L Fleet 116L 21C and 21T
RFC			OnStar 3-Years Business Vehicle Manager Service (No Charge) Provides three years of OnStar Business Vehicle Manager Service 1. Requires one of the following: a. FLS, FMR, FRC, FBC, RCO or FEE. b. Not available with RFA or RFB. Not available (UE1) 115L or 116L. c. Services and either RRP or (R82) which provide for a total of three years of OnStar service.	A ¹	A ¹

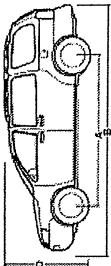
ADI - ACCESSORIES

Cargo Management	
Bicycle Carrier Package - Interior Mounted	
Bicycle and Ski Carrier Wall Storage Unit	
Bicycle/Ski Carrier Lock Package - Includes 2 keys	
CD/DVD Holder - Gold Bowtie Logo, Zippered Nylon Pouch, Black	
Cargo Tray - Black with 2 Side Walls and Chewable Logo	
Flashlight Holder- Includes 2 Snake Lights, 2 AA Batteries, With White Black and Dasher Logo, Plastic, Black	
Hitch Mounted Bicycle Carrier - Carries 4 Bikes	
Hitch-Mounted License Plate Holder	
Hitch Mounted Ski Carrier carries 5 pair of skis or 4 snowboards and 1 pair of skis	
Overhead Console Storage System - With First Aid Kit, Gray	
Overhead Console Storage System - With First Aid Kit, Gray	
Overhead Storage Console - Includes Instruction Sheet, Cashmere	
Overhead Storage Console - Includes Instruction Sheet, Gray	
PDAPhone Holder - Contains 2 Pockets, Black	
Road Mounted Hard Cargo Carrier - 55" Long x 33" Wide x 15" High, Black with Textured Finish	
Road Mounted Hard Cargo Carrier - 92" Long x 28" Wide x 15" High, Black with Textured Finish	
Road-Mounted Luggage Cross Rail Package - Black	
Electronics	
Remote Start	
Exterior	
Contour Splash Guards - 8.95 inch Wide, Front, Black without Logo, Excluding Convertible	
Contour Splash Guards - Black Chevrolet Logo	
Front End Cover - No Logo, Black	
Molded Hood Protector - Smoke	
Rear Bumper Fascia Protector	
Side Window Weather Deflector - Smoke	
Interior	
First Aid Kit - Holder First Aid Kit with First Aid Logo, Black	
Floor Console - Soft Cooler with CD Bin - Cashmere	
Floor Console - Soft Cooler with CD Bin - Gray	
Floor Console Kit - Includes Anchor Plate Bezel and Carpet Template - Soft Cooler with CD Bin - Cashmere	
Floor Console Kit - Includes Anchor Plate Bezel and Carpet Template - Soft Cooler with CD Bin - Gray, For use with Rear Bucket Seats, Not for use with Captain's Chairs	
Floor Mats - Front Carpet Replacements - Cashmere (34)	
Floor Mats - Front Carpet Replacements - Gray (17)	
Floor Mats - Front Premium All Weather -Cashmere with Black Uplander Logo	
Floor Mats - Front Premium All Weather -Gray with Black Uplander Logo	
Floor Mats - Front Premium Carpet - Neutral	
Floor Mats - Rear Carpet Replacements - Gray (17)	
Floor Mats - Rear Carpet Replacements - Cashmere	
Floor Mats - Rear Premium All Weather - Cashmere	
Floor Mats - Rear Premium All Weather - Gray	
Floor Mats - Third Row Carpet Replacements - Cashmere	
Floor Mats - Third Row Carpet Replacements - Cashmere (34)	
Floor Mats - Third Row Carpet Replacements - Gray (17)	
Floor Mats - Third Row Premium All Weather - Cashmere	
Floor Mats - Third Row Premium All Weather - Gray	
Highway Emergency Kit with GM Accessory Logo	
Vision CD/DVD Holder - Holds 12 CDs/DVDs	
Trailering	

2007 Chevrolet Truck Uplander **ADI - ACCESSORIES**

Hitch Ball Assembly - 1-7/8 inch Ball, 3/4 inchx2-5/16 inch Shank, 2000lb Gross
Hitch Ball Assembly - 2" Ball, 3/4"x2-5/16" Shank, 3500lb Gross
Hitch Ball Mount Assembly 4 inch Rise
Hitch Trailing Package - 3500LB Load, 350LB Tongue - Includes 4 Way Harness, Does not include Trailing provisions
Trailer Wiring Harness - 4 Way
Wheels
Wheel Lock Kit - Chrome (4 Nuts, 1 Key)
Wheel Lock Kit - Requires Lug Nut Cap (4 Nuts, 1 Key)

2007 Chevrolet Truck Uplander **DIMENSIONS**

All dimensions in inches (mm) unless otherwise stated.		Specifications	C111111 FWD Regular Wheelbase Passenger Van	C112111 FWD Extended Wheelbase Passenger Van
	A	Wheelbase	113.00 (2870)	121.10 (3076)
	B	Overall length	191.00 (4851)	204.30 (5189)
	C	Body width, with mirrors	85.70 (2177)	85.70 (2177)
	D	Body width, without mirrors	72.00 (1829)	72.00 (1829)
	E	Overall height	70.46 (1790)	72.03 (1830)
	F	Front tread width	62.43 (1586)	62.43 (1586)
	G	Rear tread width, FWD	62.60 (1590)	62.60 (1590)
	H	Head room, front	39.80 (1011)	39.80 (1011)
	I	Head room, center	38.90 (988)	38.90 (988)
	J	Head room, rear	37.50 (952)	38.20 (970)
	K	Shoulder room, front	59.90 (1521)	59.90 (1521)
	L	Shoulder room, center	62.00 (1575)	61.21 (1555)
	M	Shoulder room, rear	60.10 (1527)	48.61 (1235)
	N	Hip room, front	55.80 (1417)	55.80 (1417)
	O	Hip room, center	63.70 (1618)	61.60 (1565)
	P	Hip room, rear	48.30 (1227)	48.30 (1227)
	Q	Leg room, front	39.90 (1013)	39.90 (1013)
	R	Leg room, center	37.50 (952)	38.90 (988)
	S	Leg room, rear	34.30 (871)	36.20 (919)
	T	Opening height, rear liftgate	40.70 (1034)	40.70 (1034)
	U	Opening width, rear liftgate, at floor	51.57 (1310)	51.57 (1310)

2007 Chevrolet Truck Uplander

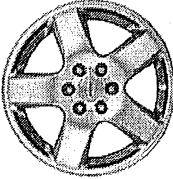
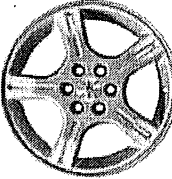
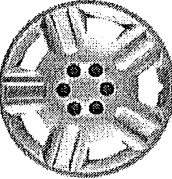
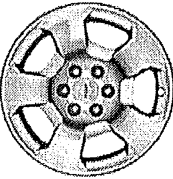
DIMENSIONS

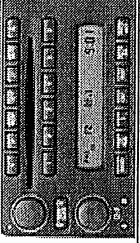

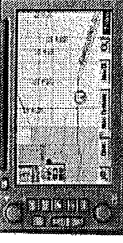
All dimensions in inches (mm) unless otherwise stated.			
Specifications	C11416 FWD Regular Wheelbase Passenger Van	C11216 FWD Extended Wheelbase Passenger Van	
Published dimensions indicated are without optional equipment or accessories. Additional accessories or equipment ordered at the customer's request can result in a minor change in these dimensions.			

2007 Chevrolet Truck Uplander

SPECS

Specifications	C11416 FWD Regular Wheelbase Passenger Van	C11216 FWD Extended Wheelbase Passenger Van
Turning diameter, curb-to-curb, ft. (m)	39.4 (12.0)	41.0 (12.5)
Capacities		
Curb weight, lbs. (kg)	4104 (1862)	4233 (1920)
Cargo volume, with front seat, cu. ft. (liters)	120.1 (3401.2)	136.5 (3865.7)
Cargo volume, with front and center seats, cu. ft. (liters)	71.0 (2010.7)	74.1 (2098.5)
Cargo volume, with front, center and rear seats, cu. ft. (liters)	17.7 (501.3)	26.3 (761.8)
Gross Vehicle Weight Rating, lbs. (kg)	5622 (2550)	5842 (2650)
Front Gross Axle Weight Rating, lbs. (kg)	2666 (1300)	2866 (1300)
Rear Gross Axle Weight Rating, lbs. (kg)	2756 (1250)	2756 (1250)
Fuel capacity, approximate, gallon (liters)	20 (76)	25 (95)
Seating capacity (front/center/rear)	2/2/3	2/2/3

	P04 Wheels, 17" (43.2 cm) aluminum
	N85 Wheels, 17" (43.2 cm) aluminum
	QR5 Wheels, 17" (43.2 cm) steel with bolt-on wheel covers
	P23 Wheels 17" (42.3 cm) 5-spoke, bright chrome clad aluminum

	US8 Audio system, AM/FM stereo with CD player and MP3 playback, seek-and-scan, digital clock, auto-tone control, Radio Data System (RDS), automatic volume, TheftLock and premium front and rear coaxial speakers
	US9 Audio system, AM/FM stereo with 6-disc in-dash CD changer and MP3 playback, seek-and-scan, digital clock, auto-tone control, Radio Data System (RDS), automatic volume, TheftLock and premium front and rear coaxial speakers
	U3U Audio system with navigation, AM/FM stereo with MP3 compatible CD player and multimedia navigation, seek-and-scan, digital clock, auto-tone control, Radio Data System (RDS), automatic volume, TheftLock and voice recognition

2007 Chevrolet Truck Uplander TRAILERING SPECS

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

Automatic Transmission Ratings with Ball Hitch	
Model	(L29) 3.9L V6 SFI Maximum Trailer Weight lbs. (kg)
CU12216	2000 (907)
CU12216 with V92	3500 (1588)

2007 Chevrolet Truck Uplander RPO CODES

Option Code	Description
A20	Windows, power rear quarter vent
A31	Windows, power
ABA	Seats, 7-passenger
ABD	Seats, 7-passenger
ABF	Seats, Cargo Van, 3-passenger, single crew seat
ABG	Seats, Cargo Van, 2-passenger, no crew seat
ABI	Seats, front bucket, second row seats removed and third row 50/50 split-folding bench
ABM	Seats, third row delete
ABV	Glass, opaque
AG1	Seat adjuster, driver 6-way power
AG2	Seat adjuster, front passenger 6-way power
AJ1	Glass, Solar-Ray deep-tinted
AJ7	Air bags, dual-stage frontal and side-impact, driver and right-front passenger
AK5	Air bags, dual-stage frontal, driver and right-front passenger
AN2	Seat, integral child, single in second row passenger-side
AP3	Remote vehicle starter system
AP8	Remote Keyless Entry, programmable
AP9	Cargo net, rear
AGV	Regular production accessory, Seat, power, SIF-N-Lift
AW9	Air bags, dual-stage, frontal, driver and right-front passenger and side-impact, first and second row outboard
B37	Floor mats, carpeted front, second and third row
B50	Floor mats, carpeted and color-keyed with contrasting edge, all rows
B86	Moldings, body-color body-side
C25	Wiper, rear intermittent
C49	Defogger, rear-window
C60	Air conditioning, single-zone manual
C89	Air conditioning, rear auxiliary
CJ3	Air conditioning, dual-zone, manual
D34	Visors, driver and front passenger vanity mirrors
D4V	Utility tray, front seat, side-folding
D55	Storage, covered
D72	Door handles, Black
D75	Door handles, body-color
D7E	Cargo convenience center, rear removable
DH6	Visors, driver and front passenger illuminated vanity mirrors
DL6	Mirrors, outside power-adjustable, Black
DR5	Mirrors, outside heated power-adjustable, Black
E58	Door, power-sliding passenger-side
E59	Door, power-sliding driver-side
F46	Drivetrain, all-wheel drive
FET	Suspension, Soft Ride
FE3	Safe and Secure Package
FE5	Suspension, Ride and Handling
FE9	Emissions, Federal requirements
G67	Automatic level control
JL4	StabiliTrak, stability control system
JL9	Brakes, 4-wheel antilock, 4-wheel disc
K05	Engine block heater

2007 Chevrolet Truck Uplander

RPO CODES

Option Code	Description
K34	Cruise control
K41	Seats, heated driver and front passenger
KC4	Cooling, engine oil cooler
KC7	Power outlet, auxiliary, 115-volt
KG7	Alternator, 125 amps
LGD	Engine, 3.9L V6 SFI FlexFuel
LZ9	Engine, 3.9L V6 SFI
MX0	Transmission, 4-speed automatic
N30	Steering wheel, urethane
N85	Wheels, 17" (43.2 cm) aluminum
N88	Emissions override, California, Massachusetts or New York
NE1	Emissions, Maine, Massachusetts, New York or Vermont state requirements
NW9	Traction control, all-speed
P04	Wheels, 17" (43.2 cm) aluminum
P23	Wheels17" (42.3 cm) 5-spoke, bright chrome clad aluminum
PCL	Overhead Rail System delete with OnStar
PCM	Climate Package
PCN	Storage and Organizer Package
PCQ	Mobility Prep Package, paratransit upgrade
PCU	Overhead Rail System delete
PCV	Premium Seating Package
PDD	Convenience Package
PDY	Security Package
QKY	Tires, P225/60R17 all-season, blackwall
QLR	Tires, P225/60R17 all-season, blackwall
QR5	Wheels, 17" (43.2 cm) steel with bolt-on wheel covers
R6W	Re-confirm option (AQW) Regular production accessory, Sit-N-Lift power seat desired
RTQ	Commercial Business Choice Uplift, partition package
RTT	Commercial Business Choice Uplift, partition package
R8C	Cargo area liner
R8E	StabilTrak, not desired
R8G	OnStar 1 Additional Year of Safe and Sound Service (MSRP= \$199)
R8P	OnStar 2 Additional Years of Safe and Sound Service (MSRP=\$379)
R8W	OnStar 1-Year Directions and Connections Service (MSRP=\$100)
R8Y	OnStar 2-Years Directions and Connections Service (MSRP=\$399)
R9Z	OnStar 3-Years Directions and Connections Service (MSRP=\$679)
R9W	Defogger, rear-window, not desired
RFA	OnStar 1-Year Business Vehicle Manager Service (MSRP=\$25)
RFB	OnStar 2-Years Business Vehicle Manager Service (No charge)
RFC	OnStar 3-Years Business Vehicle Manager Service (No charge)
T61	Daytime Running Lamps
T8S	Utility tray, second row, side-folding
TX3	Headphones, 2 additional
U2K	XM Satellite Radio
U3U	Audio system with navigation, AM/FM stereo with MP3 compatible CD player and multimedia navigation
U42	Entertainment system, rear seat Deluxe overhead DVD-integrated player
UA6	Theft-deterrent system

2007 Chevrolet Truck Uplander

RPO CODES

Option Code	Description
UD7	Rear Parking Assist
UE0	OnStar, not-installed
UE1	OnStar, 1-year of Safe and Sound plan
UG1	Universal Home Remote
UH8	Instrumentation, Deluxe
UH9	Steering wheel controls, mounted audio controls
UK3	Entertainment system, Mobile Digital Media Player by PhatNoise
UMS	Audio system feature, 8-speaker system
UQ3	Audio system feature, 4-speaker system
US8	Audio system, AM/FM stereo with CD player and MP3 playback
US9	Audio system, AM/FM stereo with 6-disc in-dash CD changer and MP3 playback
V08	Cooling, heavy-duty
V39	Overhead storage console, 1 removable
V41	Inflator kit, with hose pressure gauge and vinyl bag
V64	Luggage rack side rails, roof-mounted, Black
V69	Luggage rack side rails, Sport, roof-mounted, bright
V82	Trailer Provision Package
VDJ	Regular production accessory, Accessory kit
VEH	Overhead storage consoles
VGG	Regular production accessory, Bumper kit
VH1	Ship-thru OEM Systems
VVL	Overhead Rail System, modular
VVM	Console, overhead
WT5	Ship-thru upfitter, Adrian Steel
WU2	Ship-thru upfitter, Masterack
Y3G	Mobility Prep Package, family-use
Y3H	Mobility Prep Package, paratransit
YF5	Emissions, California state requirements
Z10	Cargo Van Package

Updates for Uplander

Week of 7/31/2006

Effective 7/31/2006, the following changes will be made to the Vehicle Order Guide:

- Interior section-(ABM) Seats, third row delete, changed symbol from "A1" to "-", on CU11416 1LS and 1FL.
- Interior section-Added (R8C) Cargo area liner, standard, completes final assembly. Must order when no other uplift is required. NO CHARGE. It is available on CU12216 2FL with a footnote that reads "Includes (WT5) Ship-thru uplifter, Adrian Steel. Not available with (WU2) Ship-thru uplifter, Mastertrack or (VH) Ship-thru OEM Systems."

Week of 7/17/2006

Effective 7/17/2006, the following changes will be made to the Vehicle Order Guide:

- Dimensions section-Added "Opening height, rear liftgate" with a value of "40.70" for CU11416 and CU12216.
- Dimensions section-Added "Opening width, rear liftgate, at floor" with a value of "51.57" for CU11416 and CU12216.

Week of 7/10/2006

Effective 7/10/2006, the following changes will be made to the Vehicle Order Guide:

- Interior section-(AK5) Air bags, dual-stage frontal, driver and right-front passenger, changed footnote to now read "Always use safety belts and the correct child restraints for your child's age and size, even in vehicles equipped with air bags. Children are safer when properly secured in a rear seat. See the vehicle's Owner's Manual and child safety seat instructions for more safety information."
- Interior section-(AJ7) Air bags, dual-stage frontal and side-impact, changed footnote 1 to now read "Always use safety belts and the correct child restraints for your child's age and size, even in vehicles equipped with air bags. Children are safer when properly secured in a rear seat. See the vehicle's Owner's Manual and child safety seat instructions for more safety information."
- Interior section-(AW9) Tractor control, changed footnote 1 to now read "Also deletes (NW9) Tractor control. Requires a Fleet, Government or Commercial order type. Not available with (FE3) Safe and Secure Package."
- Interior section-(MW9) At bags, dual-stage, frontal, driver and right-front passenger, changed footnote to now read "Not included when (Y3G) Mobility Prep Package, family-use or (AQW) Regular production accessory, Sit-N-Lift power seat is ordered. Always use safety belts and the correct child restraints for your child's age and size, even in vehicles equipped with air bags. Children are safer when properly secured in a rear seat. See the vehicle's Owner's Manual and child safety seat instructions for more safety information."
- Interior section-(V3G) Mobility Prep Package, family-use, changed footnote 1 to now read "Ship to authorized mobility BAC for uplift required. Requires 17" (43.2 cm) aluminum wheels, (FE3) Safe and Secure Package and (JL4) StabiliTrak. Not available with (PCN) Storage and Organizer Package or (AQW) Regular production accessory, Sit-N-Lift power seat, Deletes (AW9) dual-stage bags, includes (AJ7) dual-stage, frontal, driver and right-front passenger and side impact, first and second row outboard air bags, includes (AJ7) dual-stage, frontal and side-impact, driver and right-front passenger air bags. Always use safety belts and the correct child restraints for your child's age and size, even in vehicles equipped with air bags. Children are safer when properly secured in a rear seat. See the vehicle's Owner's Manual and child safety seat instructions for more safety information." Also changed footnote 2 to now read "Ship to authorized mobility BAC, Braun or Eldorado for uplift required. Requires 17" (43.2 cm) aluminum wheels, (FE3) Safe and Secure Package and (JL4) StabiliTrak. Not available with (PCN) Storage and Organizer Package or (AQW) Regular production accessory, Sit-N-Lift power seat, Deletes (AW9) dual-stage

Week of 7/10/2006

Effective 7/10/2006, the following changes will be made to the Vehicle Order Guide:

- Interior section-(V3G) Mobility Prep Package, family-use, changed footnote 1 to now read "Ship to authorized mobility BAC for uplift required. Requires 17" (43.2 cm) aluminum wheels, (FE3) Safe and Secure Package and (JL4) StabiliTrak. Not available with (PCN) Storage and Organizer Package or (AQW) Regular production accessory, Sit-N-Lift power seat, Deletes (AW9) dual-stage bags, includes (AJ7) dual-stage, frontal, driver and right-front passenger and side impact, first and second row outboard air bags, includes (AJ7) dual-stage, frontal and side-impact, driver and right-front passenger air bags. Always use safety belts and the correct child restraints for your child's age and size, even in vehicles equipped with air bags. Children are safer when properly secured in a rear seat. See the vehicle's Owner's Manual and child safety seat instructions for more safety information." Also changed footnote 2 to now read "Ship to authorized mobility BAC, Braun or Eldorado for uplift required. Requires 17" (43.2 cm) aluminum wheels, (FE3) Safe and Secure Package and (JL4) StabiliTrak. Not available with (PCN) Storage and Organizer Package or (AQW) Regular production accessory, Sit-N-Lift power seat, Deletes (AW9) dual-stage

frontal, driver and right-front passenger and side impact, first and second row outboard air bags and (DTE) rear cargo convenience center, includes (AJ7) dual-stage, frontal and side-impact, driver and right-front passenger air bags. Always use safety belts and the correct child restraints for your child's age and size, even in vehicles equipped with air bags. Children are safer when properly secured in a rear seat. See the vehicle's Owner's Manual and child safety seat instructions for more safety information."

Week of 6/26/2006

Effective 6/26/2006, the following changes will be made to the Vehicle Order Guide:

- Specs section-Curb weight, changed to "4233" lbs, on CU12216.
- Specs section-Gross Vehicle Weight Rating, changed to "5642" lbs, on CU12216.
- Mechanical section-Added (LSD) Engine, 3.9L V6 SFI FlexFuel, capable of running on unleaded or up to 85% ethanol (240 hp [178.3 kW] @ 6000 rpm, 240 lb-ft of torque [324 N-m] @ 4800 rpm). It is available on CU12216 1LS, 1FL, 2FL, 1LT, 2LT and 3LT.

Week of 6/19/2006

Effective 6/19/2006, the following changes will be made to the Vehicle Order Guide:

- All sections-Removed the word "Federal" anywhere it used to say "Requires a Fleet or Federal Government order type."
- All sections-Removed the hunched designation (ex: 5300) from all engine descriptions and replaced it with liters designation (ex: 5.3L). Please review entire order guide to see where it changed.
- Mechanical section-(R8E) StabiliTrak, not desired, updated footnote 1 to now read "Also deletes (NW9) Tractor control. Requires a Fleet, Government or Commercial order type. Not available with (FE3) Safe and Secure Package."

Week of 6/5/2006

Effective 6/5/2006, the following changes will be made to the Vehicle Order Guide:

- Exterior section-(V64) Luggage rack side rails, Sport, roof-mounted, brushed aluminum, changed extended description to now read "Sport, roof-mounted, bright".
- Mechanical section-Deleted the Non-Orderable (JL4) StabiliTrak entry completely.
- Mechanical section-(JL4) StabiliTrak, stability control system, deleted "includes (NW9) Tractor control" from the description. Also changed the symbol from "X2" to "A1" on CU11416 1FL. Also changed footnote 1 to now read "Requires (NW9) Tractor control. Also deleted footnote 2 completely. Also changed symbol from "A1" to "S" on CU12216 1LS, 1LT, 2LT and 3LT. Also changed symbol from "X2" to "S" on CU12216 1FL and 2FL.
- Mechanical section-(R8E) StabiliTrak, not desired, changed symbol from "A2" to "S" on CU12216 1FL and 2FL.
- Mechanical section-Deleted the Non-Orderable (NW9) Tractor control entry completely.
- Mechanical section-(NW9) Tractor control, changed the symbol from "A2" to "A1" on CU11416 1FL. Also changed footnote 1 to now read "Required with (JL4) StabiliTrak or available separately." Also changed footnote 2 to now read "Available separately when (R8E) StabiliTrak, not desired." Also changed symbol from "A1" to "S2" on CU12216 1LS, 1LT, 2LT and 3LT. Also changed symbol from "X2" to "S2" on CU12216 1FL and 2FL.
- Color and Trim section-Decor Level 1FL with Seat Code ABA, added a new footnote 1 to Seat Trim Custom Cloth that reads "Requires (AN2) Integral child seat." Old footnote 1 now becomes footnote 2.

Week of 5/29/2006

Effective 5/29/2006, the following changes will be made to the Vehicle Order Guide:

- Interior section-(PCV) Premium Seating Package, updated footnote 1 to now read "Must order. ("2) Leather-appointed seating surfaces. Requires (T8S) second row, side-folding utility tray. Also requires a fleet, federal government or commercial order type or (Y3G) Mobility Prep Package, family-use, (KX1) heated driver and front passenger seats are not included when (PCU) Overhead Rail System delete or (PCU) Overhead Rail System delete with OnStar is selected."
- Interior section-(AN2) Seat, integral child, updated footnote 2 to now read "Requires (AG1) 6-way power driver seat adjuster, (AJ7) dual-stage, frontal and side-impact, driver and right-front passenger air bags and ("C) Custom Cloth.

- Required when ("C") Custom Cloth is ordered. Not available with (Y3H) Mobility Prep Package, paratransit."
- OnStar Fleet Options section-(RFB) OnStar 2-Years Business Vehicle Manager Service (No charge), updated footnote 1 to now read "Requires one of the following Fleet or Government order types: FLS, FNR, FRC, FBC, FGO or FEF. Not available with RFA or RFC. Not available with (UE0) OnStar delete. Requires (UE1) 1-Year OnStar service and either (R8G) or (R8V) which provide for a total of two years of OnStar service."
 - OnStar Fleet Options section-(RFC) OnStar 3-Years Business Vehicle Manager Service (No Charge), updated footnote 1 to now read "Requires one of the following Fleet or Government order types: FLS, FNR, FRC, FBC, FGO or FEF. Not available with RFA or RFB. Not available with (UE0) OnStar delete. Requires (UE1) 1-Year OnStar service and either (R8P) or (R8Z) which provide for a total of three years of OnStar service."

Week of 5/22/2006

Effective 5/22/2006, the following changes will be made to the Vehicle Order Guide:

- OnStar Fleet Options section-Please review entire section as many changes have been made.

Week of 5/15/2006

Effective 5/15/2006, the following changes will be made to the Vehicle Order Guide:

- Interior section-(AN2) Seat, integral child, deleted footnote 3 from the 1LT column and deleted footnote 3 completely.
- Specs section-Curb weight, changed number to "4104" on CU11416 and changed number to "4381" on CU12216.

Week of 5/8/2006

Effective 5/8/2006, the following changes will be made to the Vehicle Order Guide:

- Interior section-(C69) Air conditioning, rear auxiliary, updated extended description to now read "rear auxiliary with heater, rear seat fan/temperature controls".
- Interior section-(Y3H) Mobility Prep Package, paratransit, updated extended description to now read "paratransit, (to lower the floor), includes (AB) front bucket seats, second row seats removed and third row 50/50 split-folding bench, no floor coverings, extended length wiring harness, (V08) heavy-duty cooling (high-capacity radiator and 240-watt fan) and heavy-duty springs".
- Interior section-(PCU) Overhead Rail System delete, updated footnote 1 to now read "Requires a Fleet, Federal Government or Commercial order type. Also removes (VVM) overhead console, (VEH) overhead storage consoles, (E59) power-sliding, driver-side door and (UD7) Rear Parking Assist. Replaces (DH6) illuminated visor vanity mirrors with (D34) visor vanity mirrors and (AW9) dual-stage, frontal, driver and right-front passenger and side impact, first and second row outboard air bags with (AJ7) dual-stage, frontal and side-impact, driver and right-front passenger air bags. 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. Not available with (UE0) OnStar, not-installed or (PCL) Overhead Rail System delete with OnStar", and applies to 1LT. Current footnote 1 now becomes footnote 2 and applies to 2LT.
- Interior section-(PCL) Overhead Rail System delete with OnStar, updated footnote 1 to now read "Requires a Fleet or Federal Government order type. Also removes (VVM) overhead console, (E59) power-sliding, driver-side door and (UD7) Rear Parking Assist. Replaces the (AW9) dual-stage, frontal, driver and right-front passenger and side impact, first and second row outboard air bags with (AJ7) dual-stage, frontal and side-impact, driver and right-front passenger air bags. 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. Not available with (UE0) OnStar, not-installed or (PCL) Overhead Rail System delete.", and applies to 1LT. Current footnote 1 now becomes footnote 2 and applies to 2LT.
- Interior section-(ABG) Seats, Cargo Van, 2-passenger, no crew seat, updated footnote 1 to now read "Requires (WTS) Ship-thru upfitter, Adrian Steel or (WU2) Ship-thru upfitter, Masterack for installation of a certified partition. Partition installation may be obtained through either Business Choice options (R7Q) Commercial Business Choice Upfit, partition package or (R7T) Commercial Business Choice Upfit, commercial bin and partition or direct payment to (WTS) Ship-thru upfitter, Adrian Steel or (WU2) Ship-thru upfitter, Masterack."
- Exterior section-(V41) Inflator kit, changed symbol from "A1" to "-", on 1LT.
- Exterior section-(QLR) Tires, P225/60R17 all-season, blackwall, changed symbol from "A1" to "-", on 1LT.
- Mechanical section-Deleted (K68) Alternator, 105 amps completely.

- Mechanical section-(KG7) Alternator, 125 amps, changed symbol to "S" in all equipment groups. Also deleted footnotes 1, 2 and 3.
- Mechanical section-(G67) Automatic level control, changed symbol from "A1" to "-", on 1LT.
- Mechanical section-(FE3) Safe and Secure Package, changed symbol from "A1" to "-", on 1LT. Also deleted footnote 2 completely. Current footnote 3 becomes footnote 2 and applies to 2LT and 3LT.
- Color and Trim section-Seat Code "ABI" and Seat Trim "Custom Cloth", changed Décor Level to now read "1FL with Y3H, 2LT with Y3G".

Week of 5/1/2006

Effective 5/1/2006, the following changes will be made to the Vehicle Order Guide:

- Interior section-(VDU) Regular production accessory, Accessory kit, added a footnote 1 that reads "For additional GM Accessory Offerings and Installation, please contact your local GM Accessory Distributor/ Installer (ADI).", and applies to CU12216 1LT.
- Interior section-(AQW) Regular production accessory, Seat, power, Sit-N-Lift, updated footnote 1 to now read "Requires option (R6W) Re-confirm option (AQW) Regular production accessory, Sit-N-Lift power seat desired. Not available with (Y3G) Mobility Prep Package, family-use. Requires (ABD) 7-passenger seating. Requires 17" (43.2 cm) aluminum wheels, includes (AJ7) dual-stage, frontal, and side-impact driver and right-front passenger air bags. 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. For additional GM Accessory Offerings and Installation, please contact your local GM Accessory Distributor/ Installer (ADI)."
- Exterior section-(VGG) Regular production accessory, Bumper kit, added a footnote 1 that reads "For additional GM Accessory Offerings and Installation, please contact your local GM Accessory Distributor/ Installer (ADI).", and applies to CU12216 2LT and 3LT.

Week of 4/24/2006

Effective 4/24/2006, the following changes will be made to the Vehicle Order Guide:

- Interior section-(RTQ) Commercial Business Choice Upfit, partition package, updated footnote 1 to now read "Requires (WTS) Ship-thru upfitter, Adrian Steel and (ABG) Cargo Van, 2-passenger seat, no crew seat."
- Interior section-(RTT) Commercial Business Choice Upfit, commercial bin and partition, updated footnote 1 to now read "Requires (WTS) Ship-thru upfitter, Adrian Steel and (ABG) Cargo Van, 2-passenger seat, no crew seat."
- Interior section-(PDD) Convenience Package, updated extended description to now read "includes (KC7) 115-volt power outlet, (E59) power-sliding, driver-side door and (UD7) Rear Parking Assist". Also updated footnote 1 to now read "Not available with (PCU) Overhead Rail System delete or (PCL) Overhead Rail System delete with OnStar."
- Interior section-(VDU) Regular production accessory, Accessory kit, changed symbol for CU12216 1LT from "A/D1" to "solid box". Also, deleted footnote 1 completely.
- Interior section-(Y3G) Mobility Prep Package, family-use, changed symbol for CU12216 1LT from "A1" to "-".
- Interior section-(ABM) Seats, third row delete, changed symbol for CU12216 1LT from "A2" to "-", Also deleted current footnote 2 completely. Old footnote 3 becomes footnote 2 for CU12216 2LT and 3LT.
- Interior section-(UZX) XM Satellite Radio, changed extended description to read "With a wide variety of programming, XM has something to excite any driver. Whether you want to be entertained or informed, to laugh, think, or sing, XM has the perfect channel for you - coast-to-coast, and in digital-quality sound. 3 trial months - no obligation". Also changed footnote 1 to read "Available in the 48 contiguous United States. Required \$12.95 monthly subscription sold separately. All fees and programming subject to change. Subscription subject to customer agreement. For more information, visit gm.xmradio.com."
- Color and Trim section-Deleted seat row "Décor Level 1LT, Seat Type 3rd row seat delete, 4-passenger, 2 - 2nd row modular bucket seats without armrests (3rd row seating removed), Seat Code ABM, Seat Trim Custom Cloth, Interiors (17C) Medium Gray and (34C) Cashmere".
- Exterior section-(PCM) Climate Package, changed symbol for CU12216 2FL from "A1" to "A2" and added new footnote 2 that reads "Note: Must specify (PCM) Climate Package or (R9W) rear window defogger not desired. (A11) Solar-Ray deep-lined glass is deleted when (ABW) opaque glass is ordered."

Week of 3/20/2006

Effective 3/20/2006, the following changes will be made to the Vehicle Order Guide:

- All sections- CU11416 1LS Fleet 1FL updated footnote 2 at top of page to now read "Equipment Group 1FL available on the CU11416 Model and Requires a Fleet, Federal Government or Commercial order type."
- All sections- CU12216 1LS Fleet 1FL updated footnote 4 at top of page to now read "Equipment Group 1FL available on the CU12216 Model and Requires a Fleet, Federal Government or Commercial order type."
- Mechanical section-Deleted (LGD) Engine, 3.9L 3900 V6 SFI completely.
- Mechanical section-(JL4) Stabilitrak, changed description to now read "Stabilitrak, stability control system, includes (NW9) Traction control. Also changed symbol on CU11416 1FL, CU12216 1FL and 2FL from "S1" to "-". Also changed symbol on CU12216 1LS, 1LT, 2LT and 3LT from "S2" to "S1". Also changed footnote 1 to now read "Standard for Retail stock or sold order types." Also deleted footnote 2 completely.
- Mechanical section-Added "(JL4) Stabilitrak, stability control system, includes (NW9) Traction control". It is "A1" on CU11416 1LS, CU12216 1LS, 1LT, 2LT and 3LT with a footnote 1 that reads "Requires a Fleet, Federal Government or Commercial order type and must specify (JL4) Stabilitrak or (R8E) Stabilitrak not desired." It is "A2" on CU11416 1FL, CU12216 1FL and 2FL with a footnote 2 that reads "Must specify (JL4) Stabilitrak or (R8E) Stabilitrak not desired."
- Mechanical section-(R8E) Stabilitrak, not desired, updated symbol on CU12216 1FL from "A1" to "A2". Also updated footnote 1 to now read "Also deletes (NW9) Traction control. Requires a Fleet, Federal Government or Commercial order type and must specify (JL4) Stabilitrak or (R8E) Stabilitrak not desired. Not available with (FE3) Safe and Secure Package." Also updated footnote 2 to now read "Also deletes (NW9) Traction control. Must specify (JL4) Stabilitrak or (R8E) Stabilitrak not desired. Not available with (FE3) Safe and Secure Package."
- Mechanical section-Added "(NW9) Traction control, all-speed". It is "A1" on CU11416 1LS, CU12216 1LS, 1LT, 2LT and 3LT with a footnote 1 that reads "Requires a Fleet, Federal Government or Commercial order type and must specify (R8E) Stabilitrak not desired." It is "A2" on CU11416 1FL, CU12216 1FL and 2FL with a footnote 2 that reads "Included with (JL4) Stabilitrak or available separately and requires (R8E) Stabilitrak not desired."