

2010 GENERAL MOTORS

Equinox & Terrain

BUZZERS, RELAYS & TIMERS

BUZZERS, RELAYS & TIMERS LOCATION

Component	Location
A/C CMPRSR Relay	Underhood fuse block. See Fig. 47 .
BRK/BSTR Relay	Underhood fuse block. See Fig. 47 .
COOL FAN CNTRL Relay	Underhood fuse block. See Fig. 47 .
COOL FAN HI Relay	Underhood fuse block. See Fig. 47 .
COOL FAN LO Relay	Underhood fuse block. See Fig. 47 .
ENG CNTRL Relay	Underhood fuse block. See Fig. 47 .
FOG LAMP Relay	Underhood fuse block. See Fig. 47 .
HEAD LAMP HI Relay	Underhood fuse block. See Fig. 47 .
LOG RLY	Instrument panel fuse block. See Fig. 48 .
RAP RLY	Instrument panel fuse block. See Fig. 48 .
REAR DEFOG Relay	Underhood fuse block. See Fig. 47 .
RUN/CRNK Relay	Underhood fuse block. See Fig. 47 .
STRTR Relay	Underhood fuse block. See Fig. 47 .
WPR HI/LO SPD Relay	Underhood fuse block. See Fig. 47 .
WPR ON/OFF CNTRL Relay	Underhood fuse block. See Fig. 47 .

CIRCUIT PROTECTION DEVICES

CIRCUIT PROTECTION DEVICES LOCATION

Component	Location
Fuse Block-Instrument Panel	Center console. See Fig. 27 .
Fuse Block-Instrument Panel Label	Center console. See Fig. 48 .
Fuse Block-Underhood	Left rear engine compartment. See Fig. 15 .
Fuse Block-Underhood Label	Left rear engine compartment. See Fig. 47 .

CONTROL UNITS

CONTROL UNITS LOCATION

Component	Location
Blower Motor Control Module	HVAC module. See Fig. 12 .
Body Control Module	Left dash. See Fig. 16 .
Electronic Brake Control Module	Rear engine compartment. See Fig. 15 .
Fuel Pump Control Module	Left quarter trim panel. See Fig. 28 .
Inflatable Restraint Sensing & Diagnostic Module	Center console. See Fig. 26 .

Liftgate Control Module	Liftgate. See Fig. 6.
Parking Assist Module	Left quarter trim panel. See Fig. 28.
Passenger Presence Detection Module	Seat cushion. See Fig. 24.
Rear Differential Clutch Control Module	Rear differential. See Fig. 29.
Seat Memory Control Module Or Seat Heating Control Module	Lower seat frame. See Fig. 23.
Telematics Communication Interface Control Module	Left dash. See Fig. 16.

MOTORS

MOTORS LOCATION

Component	Location
Air Recirculation Door Motor	HVAC module. See Fig. 12.
Air Temperature Door Actuator	HVAC Module. See Fig. 12.
Blower Motor	HVAC module. See Fig. 12.
Cooling Fan Motor	Front engine compartment. See Fig. 13.
Cooling Fan Motor (Left)	Front engine compartment. See Fig. 13.
Cooling Fan Motor (Right)	Front engine compartment. See Fig. 13.
Fuel Pump	Primary Sending unit. See Fig. 1.
High Pressure Fuel Pump (2.4L)	Rear engine. See Fig. 19.
High Pressure Fuel Pump (3.0L)	Rear of engine. See Fig. 10.
Liftgate Motor Assembly	Left quarter trim panel. See Fig. 28.
Mode Door Actuator	HVAC module. See Fig. 12.
Rear Wiper Motor	Liftgate. See Fig. 6.
Rear Wiper Motor	Liftgate. See Fig. 22.
Seat Front Vertical Motor (Driver)	Lower seat frame. See Fig. 23.
Seat Horizontal Motor (Driver)	Lower seat frame. See Fig. 23.
Seat Lumbar Support Horizontal Motor (Driver)	Seat back. See Fig. 23.
Seat Rear Vertical Motor (Driver)	Lower seat frame. See Fig. 23.
Sunroof Motor	Behind sunroof. See Fig. 2.
Window Motor - Driver	Driver door. See Fig. 3.
Window Motor - Left Rear	Left rear door. See Fig. 7.
Window Motor - Passenger	Passenger door. See Fig. 4.
Window Motor - Right Rear	Right rear door. See Fig. 8.
Windshield Washer Pump	Washer reservoir. See Fig. 15.
Windshield Wiper Motor	Left cowl. See Fig. 15.

SENDING UNITS & SENSORS

SENDING UNITS & SENSORS LOCATION

Component	Location
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Accelerator Pedal Position Sensor	Accelerator pedal. See <u>Fig. 16</u> .
A/C Evaporator Temperature Sensor	HVAC module. See <u>Fig. 12</u> .
A/C Refrigerant Pressure Sensor	Back of A/C compressor. See <u>Fig. 9</u> .
Air Temperature Sensor (Right Lower Duct)	HVAC module. See <u>Fig. 12</u> .
Air Temperature Sensor (Right Upper Duct)	HVAC module. See <u>Fig. 12</u> .
Ambient Air Temperature Sensor	Front grille. See <u>Fig. 13</u> .
Ambient Light/Sunload Sensor OR Ambient Light Sensor	Center dash. See <u>Fig. 5</u> .
Brake Booster Vacuum Sensor	Brake booster. See <u>Fig. 15</u> .
Brake Pedal Position Sensor	Brake pedal. See <u>Fig. 16</u> .
Camshaft Position Sensor - Bank 1 Exhaust	Left cylinder head. See <u>Fig. 17</u> .
Camshaft Position Sensor - Bank 1 Intake	Right cylinder head. See <u>Fig. 17</u> .
Camshaft Position Sensor - Bank 2 Exhaust	Left cylinder head. See <u>Fig. 17</u> .
Camshaft Position Sensor - Bank 2 Intake	Left cylinder head. See <u>Fig. 17</u> .
Camshaft Position Sensor - Intake	Rear engine. See <u>Fig. 19</u> .
Crankshaft Position Sensor (2.4L)	Left rear engine. See <u>Fig. 19</u> .
Crankshaft Position Sensor (3.0L)	Right side engine block. See <u>Fig. 17</u> .
Engine Coolant Temperature Sensor (2.4L)	Right rear engine. See <u>Fig. 18</u> .
Engine Coolant Temperature Sensor (3.0L)	Left cylinder head. See <u>Fig. 10</u> .
Fuel Level Sensor (Primary)	Primary sender. See <u>Fig. 1</u> .
Fuel Level Sensor (Secondary)	Secondary sender. See <u>Fig. 1</u> .
Fuel Pressure Sensor	Behind engine. See <u>Fig. 1</u> .
Fuel Rail Pressure Sensor (2.4L)	Fuel rail. See <u>Fig. 9</u> .
Fuel Rail Pressure Sensor (3.0L)	Top of engine. See <u>Fig. 20</u> .
Fuel Tank Pressure Sensor	Top of fuel sender. See <u>Fig. 1</u> .
Heated Oxygen Sensor - Bank 1 Sensor 1	Right exhaust manifold. See <u>Fig. 21</u> .
Heated Oxygen Sensor - Bank 1 Sensor 2	Right catalytic converter. See <u>Fig. 21</u> .
Heated Oxygen Sensor - Bank 2 Sensor 1	Left exhaust manifold. See <u>Fig. 21</u> .
Heated Oxygen Sensor - Bank 2 Sensor 2	Left catalytic converter. See <u>Fig. 21</u> .
Knock Sensor	Left engine block. See <u>Fig. 19</u> .
Knock Sensor 1	Right side engine block. See <u>Fig. 17</u> .
Knock Sensor 2	Left side of engine. See <u>Fig. 10</u> .
Liftgate Object Sensor (Left)	Liftgate. See <u>Fig. 6</u> .
Liftgate Object Sensor (Right)	Liftgate. See <u>Fig. 6</u> .
Manifold Absolute Pressure Sensor (2.4L)	Intake manifold. See <u>Fig. 9</u> .
Manifold Absolute Pressure Sensor (3.0L)	Intake manifold. See <u>Fig. 17</u> .
Multi-Axis Acceleration Sensor	Center floorboard. See <u>Fig. 26</u> .
Rear Object Sensor (Left Middle)	Left middle bumper. See <u>Fig. 22</u> .
Rear Object Sensor (Left Outer)	Left outer bumper. See <u>Fig. 22</u> .
Rear Object Sensor (Right Middle)	Middle rear bumper. See <u>Fig. 22</u> .
Rear Object Sensor (Right Outer)	Right rear bumper. See <u>Fig. 22</u> .

Side Impact Sensor (Left Front)	Driver door. See Fig. 3.
Side Impact Sensor (Left Front)	Passenger door. See Fig. 4.
Side Impact Sensor (Left Rear)	Left rear door. See Fig. 7.
Side Impact Sensor (Right Rear)	Right rear door. See Fig. 8.
Steering Wheel Angle Sensor	Steering column. See Fig. 25.
Transmission Input Shaft Speed Sensor	Transmission. See Fig. 14.
Transmission Output Shaft Speed Sensor	Transmission. See Fig. 14.
Wheel Speed Sensor (4)	Respective wheel hub. See Fig. 11.

SOLENOIDS & SOLENOID VALVES

SOLENOIDS & SOLENOID VALVES LOCATION

Component	Location
A/C Compressor Clutch (2.4L)	Left front engine. See Fig. 19.
A/C Compressor Clutch (3.0L)	Front left engine. See Fig. 10.
Camshaft Position Actuator Solenoid Valve - Bank 1 Exhaust	Right cylinder head. See Fig. 17.
Camshaft Position Actuator Solenoid Valve - Bank 1 Intake	Right cylinder head. See Fig. 17.
Camshaft Position Actuator Solenoid Valve - Bank 2 Exhaust	Left cylinder head. See Fig. 16.
Camshaft Position Actuator Solenoid Valve - Bank 2 Intake	Left cylinder head. See Fig. 17.
Camshaft Position Actuator Solenoid Valve - Exhaust	Front exhaust cam. See Fig. 18.
Camshaft Position Actuator Solenoid Valve - Intake	Front intake cam. See Fig. 18.
Control Solenoid Valve Assembly	Transmission. See Fig. 14.
Evaporative Emission Purge Solenoid Valve	Intake manifold. See Fig. 17.
Evaporative Emission Vent Solenoid Valve	Front of fuel tank. See Fig. 1.
Fuel Injector 1 (2.4L)	Fuel rail. See Fig. 9.
Fuel Injector 1 (3.0L)	Intake manifold. See Fig. 20.
Fuel Injector 2 (2.4L)	Fuel rail. See Fig. 9.
Fuel Injector 2 (3.0L)	Intake manifold. See Fig. 20.
Fuel Injector 3 (2.4L)	Fuel rail. See Fig. 9.
Fuel Injector 3 (3.0L)	Intake manifold. See Fig. 20.
Fuel Injector 4 (2.4L)	Fuel rail. See Fig. 9.
Fuel Injector 4 (3.0L)	Intake manifold. See Fig. 20.
Fuel Injector 5	Intake manifold. See Fig. 20.
Fuel Injector 6	Intake manifold. See Fig. 20.
Ignition Cylinder Lock Control Solenoid Actuator	Steering column. See Fig. 25.

SWITCHES

SWITCHES LOCATION

Component	Location
Brake Fluid Level Switch	Master cylinder reservoir. See Fig. 15 .
Engine Oil Pressure Switch (2.4L)	Left engine block. See Fig. 19 .
Engine Oil Pressure Switch (3.0L)	Left front of engine. See Fig. 10 .
Hood Ajar Switch	Hood latch. See Fig. 15 .
Park Brake Switch	Park brake assembly. See Fig. 16 .
Transmission Internal Mode Switch	Transmission. See Fig. 14 .

MISCELLANEOUS

MISCELLANEOUS LOCATION

Component	Location
Cooling Fan Resistor	Front engine compartment. See Fig. 13 .
Data Link Connector	Left side dash. See Fig. 16 .
Data Link Resistor	Differential support beam. See Fig. 29 .
Horn - High Note	Right engine compartment. See Fig. 15 .
Horn - Low Note	Left engine compartment. See Fig. 15 .
Ignition Coil 1 (2.4L)	Cylinder 1. See Fig. 18 .
Ignition Coil 1 (3.0L)	Cylinder 1. See Fig. 17 .
Ignition Coil 2 (2.4L)	Cylinder 2. See Fig. 18 .
Ignition Coil 2 (3.0L)	Cylinder 2. See Fig. 10 .
Ignition Coil 3 (2.4L)	Cylinder 3. See Fig. 18 .
Ignition Coil 3 (3.0L)	Cylinder 3. See Fig. 17 .
Ignition Coil 4 (2.4L)	Cylinder 4. See Fig. 18 .
Ignition Coil 4 (3.0L)	Cylinder 4. See Fig. 10 .
Ignition Coil 5	Cylinder 5. See Fig. 17 .
Ignition Coil 6	Cylinder 6. See Fig. 10 .
Rearview Camera	Center liftgate. See Fig. 22 .
Roof Rail Air Bag (Left)	Left roof rail. See Fig. 26 .
Roof Rail Air Bag (Right)	Right roof rail. See Fig. 26 .
Steering Wheel Air Bag Coil	Steering column. See Fig. 25 .

CONNECTORS

CONNECTORS LOCATION

Component	Location
X108 (Black, 6 Pin)	Rear engine. See Fig. 30 .
X109 (Black, 12 Pin)	Rear engine. See Fig. 30 .
X110 (Dark Gray, 5 Pin)	Left front engine compartment. See Fig. 31 .
X112 (Black, 24 Pin)	Right engine compartment. See Fig. 31 .

X115 (Black, 16 Pin)	Left side engine compartment. See Fig. 31 .
X116 (2.4L) (Dark Gray, 4 Pin)	Right front engine compartment. See Fig. 31 .
X116 (3.0L) (Dark Gray, 2 Pin)	Right front engine compartment. See Fig. 31 .
X120 (Black, 5 Pin)	Right engine compartment. See Fig. 31 .
X121 (Black, 2 Pin)	Left side engine compartment. See Fig. 31 .
X203 (Yellow, 4 Pin)	Center dash. See Fig. 32 .
X206 (Black, 43 Pin)	Left kick panel. See Fig. 33 .
X209 (Black, 10 Pin)	Left side dash. See Fig. 33 .
X210 (Light Gray, 26 Pin)	Right kick panel. See Fig. 33 .
X211 (Black, 38 Pin)	Center console. See Fig. 33 .
X213 (Black, 16 Pin)	Right side dash. See Fig. 32 .
X214 (Black, 2 Pin)	Center dash. See Fig. 33 .
X300 (Light Gray, 4 Pin)	Left "A" pillar. See Fig. 31 .
X307 (Light Gray, 20 Pin)	Under driver seat. See Fig. 33 .
X308 (Yellow, 16 Pin)	Under driver seat. See Fig. 34 .
X309 (Blue, 16 Pin)	Under driver seat. See Fig. 32 .
X310 (Yellow, 16 Pin)	Under passenger seat. See Fig. 34 .
X401 (Black 38 Pin)	Right "D" pillar. See Fig. 34 .
X405 (Black, 14 Pin)	Under left rear cargo area. See Fig. 34 .
X406 (Black, 6 Pin)	Under left rear cargo area. See Fig. 34 .
X407 (Black, 4 Pin)	Front cargo area. See Fig. 34 .
X408 (Black, 4 Pin)	Right rear sail panel. See Fig. 34 .
X411 (Black, 14 Pin)	Fuel tank. See Fig. 35 .
X444 (Light Gray, 4 Pin)	Left rear cargo area. See Fig. 34 .
X500 (White, 28 Pin)	Left front door hinges. See Fig. 34 .
X505 (Light Gray, 22 Pin)	Driver door. See Fig. 36 .
X600 (White, 28 Pin)	Right front door hinges. See Fig. 37 .
X605 (Light Gray, 22 Pin)	Passenger door. See Fig. 37 .
X700 (White, 21 Pin)	Left "B" pillar. See Fig. 34 .
X800 (White, 21 Pin)	Right "B" pillar. See Fig. 38 .
X900 (Green, 14 Pin)	Lifgate top. See Fig. 34 .
X901 (Dark Gray, 14 Pin)	Right rear roof. See Fig. 34 .
X902 (Black, 3 Pin)	Right side liftgate. See Fig. 39 .
X903 (Black, 3 Pin)	Right side liftgate. See Fig. 39 .
X904 (Black, 10 Pin)	Left side liftgate. See Fig. 40 .

GROUND S

GROUND S LOCATION

Component	Location
G105 (2.4L)	Rear engine. See Fig. 41 .

G105 (3.0L)	Left rear engine. See Fig. 42 .
G109 (2.4L)	Top rear engine. See Fig. 41 .
G109 (3.0L)	Right front engine. See Fig. 42 .
G110	Right rear engine. See Fig. 42 .
G112 (2.4L)	Lower left front engine. See Fig. 41 .
G112 (3.0L)	Left rear engine. See Fig. 42 .
G203	Lower center dash. See Fig. 43 .
G205	Left kick panel. See Fig. 44 .
G207	Right side dash. See Fig. 43 .
G210	Left side dash. See Fig. 43 .
G301	Under driver seat. See Fig. 44 .
G311	Under passenger seat. See Fig. 44 .
G401	Left side luggage compartment. See Fig. 44 .
G403	Right side luggage compartment. See Fig. 44 .

SPLICES

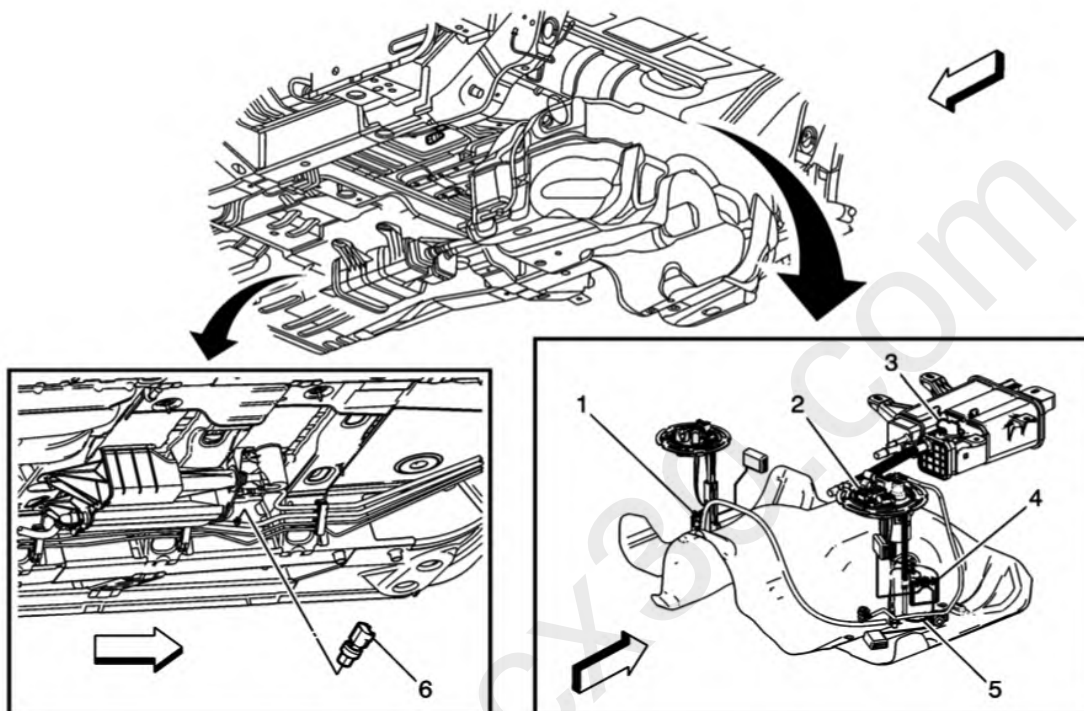
SPLICES LOCATION

Component	Location
JX201	In left front passenger compartment, at left side of instrument panel, near data link connector. See Fig. 33 .
JX202	In left front passenger compartment, at left side instrument panel, taped to body harness near brake pedal. See Fig. 45 .
J102	Right rear of the engine, 5.5 cm (2.2 in) from the ignition coil 3 breakout. See Fig. 30 .
J104	Right side of the engine, 3.0 cm from the ignition coil 3 breakout. See Fig. 30 .
J106	Right front of the engine, 3.0 cm from the ignition coil 2 breakout. See Fig. 30 .
J111	Left rear of the engine compartment, 15 cm from the X115 takeout. See Fig. 31 .
J117	Left rear of engine compartment, 8.0 cm from windshield wiper motor. See Fig. 45 .
J202	Right side of the instrument panel, 4.5 cm from the X213 and blower motor breakouts. See Fig. 32 .
J203	Center of the instrument panel, 10.5 cm from the HVAC module breakouts. See Fig. 32 .
J204	Under center console, 16.0 cm from X211 breakout. See Fig. 33 .
J205	Left side instrument panel, 25.0 cm from instrument panel dimmer switch. See Fig. 32 .

J206	Center of the instrument panel, 4.5 cm from HVAC module takeouts. See <u>Fig. 32.</u>
J218	Left side instrument panel, 2.0 cm from X500 breakout. See <u>Fig. 45.</u>
J302	Right side passenger compartment, 35.0 cm from right "B" pillar breakout. See <u>Fig. 45.</u>
J303	Right side passenger compartment, 55.0 cm from right "B" pillar breakout. See <u>Fig. 45.</u>
J307	Left front passenger compartment, 45.0 cm from X500 breakout. See <u>Fig. 45.</u>
J311	Left front passenger compartment, 26.0 cm from X500. See <u>Fig. 45.</u>
J313	Left front passenger compartment, 14.0 cm from X500 breakout. See <u>Fig. 45.</u>
J317	In rear of center console, 60.5 cm from takeout to the rear accessory power receptacle. See <u>Fig. 33.</u>
J318	In center console, 8.5 cm from fuel economy mode switch breakout. See <u>Fig. 33.</u>
J404	Middle of rear bumper, 10 cm from right middle object sensor breakout. See <u>Fig. 35.</u>
J405	Left side of rear bumper, 56 cm from X406. See <u>Fig. 35.</u>
J407	Right rear lamp assembly. See <u>Fig. 39.</u>
J501	Driver door trim panel, 12.0 cm from mirror control module breakout. See <u>Fig. 36.</u>
J502	Driver door, 20.0 cm from the outside rearview mirror and X505 breakouts. See <u>Fig. 36.</u>
J601	Passenger door, 20.0 cm from outside rearview mirror and X605 breakouts. See <u>Fig. 37.</u>
J602	Passenger door trim panel, 55.0 cm from X605. See <u>Fig. 37.</u>
J701	In liftgate trim panel, 11.5 cm from X904. See <u>Fig. 46.</u>
J702	In liftgate trim panel, between left and right license plate lamp breakouts. See <u>Fig. 46.</u>
J801	Right rear door, 37.5 cm from X800. See <u>Fig. 38.</u>
J802	Right rear door, 11 cm from the right rear door latch assembly. See <u>Fig. 38.</u>
J901	Liftgate trim panel, 11.5 cm from X904. See <u>Fig. 35.</u>
J902	Liftgate trim panel, between left and right license plate lamp breakouts. See <u>Fig. 35.</u>
J904	Liftgate trim panel, 14.5 cm from rear wiper motor breakout. See <u>Fig. 40.</u>

COMPONENT LOCATION GRAPHICS

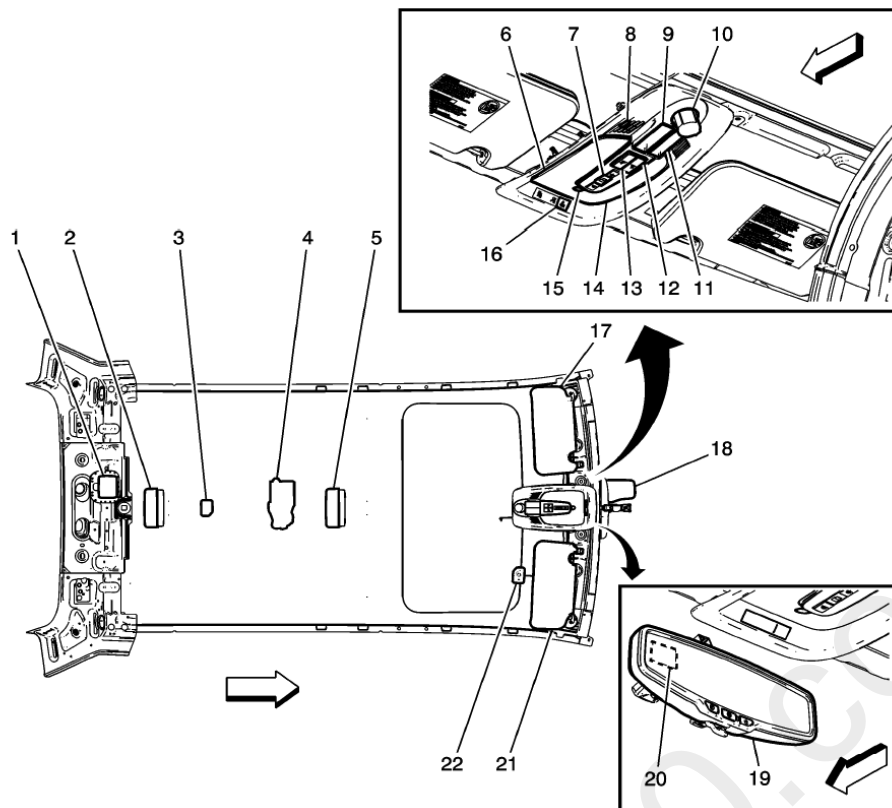
NOTE: Figures may show multiple component locations. Refer to appropriate table for proper figure references.



- (1) B46B Fuel Level Sensor - Secondary
- (2) B150 Fuel Tank Pressure Sensor
- (3) Q13 Evaporative Emission Vent Solenoid Valve
- (4) B46A Fuel Level Sensor - Primary
- (5) G12 Fuel Pump
- (6) B47 Fuel Pressure Sensor

Fig. 1: Fuel Tank

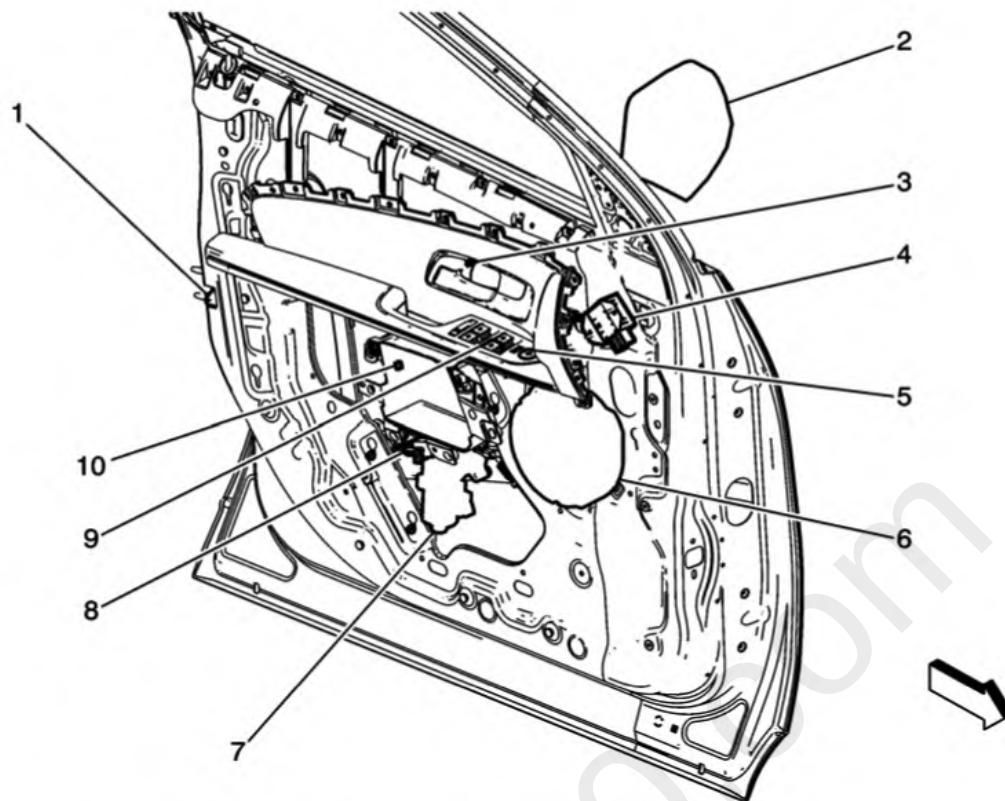
Courtesy of GENERAL MOTORS CORP.



- (2) E37R Dome/Reading Lamps - Rear
- (3) B77R Radio Volume Compensator Interior Noise Microphone - Rear (VQN)
- (4) M69 Sunroof Motor (CF5)
- (5) E37M Dome/Reading Lamps - Middle
- (6) E37EL Dome/Reading Lamps - Front Overhead Console Left
- (7) S12 Dome Lamp Switch
- (8) B24 Cellular Phone Microphone (UE1)
- (9) S72 Sunroof Switch (CF5)
- (10) S45B Liftgate Control Switch - Interior (TB5)
- (11) S88 Sunroof Tilt Switch (CF5)
- (12) S17RF Dome/Reading Lamps Switch - Front Overhead Console Right
- (13) S17LF Dome/Reading Lamps Switch - Front Overhead Console Left
- (14) E37ER Dome/Reading Lamps - Front Overhead Console Right
- (15) E1L Accent Lamp - Overhead Console (LT or LTZ or SLE2 or SLT)
- (16) P14 Passenger Airbag Disable Indicator
- (17) A3R Sunshade - Right
- (18) K77 Remote Control Door Lock Receiver
- (19) A10 Inside Rearview Mirror
- (20) P7 Display (UVC without UYS or PCJ)
- (21) A3L Sunshade - Left
- (22) B77F Radio Volume Compensator Interior Noise Microphone - Front (VQN)

Fig. 2: Roof

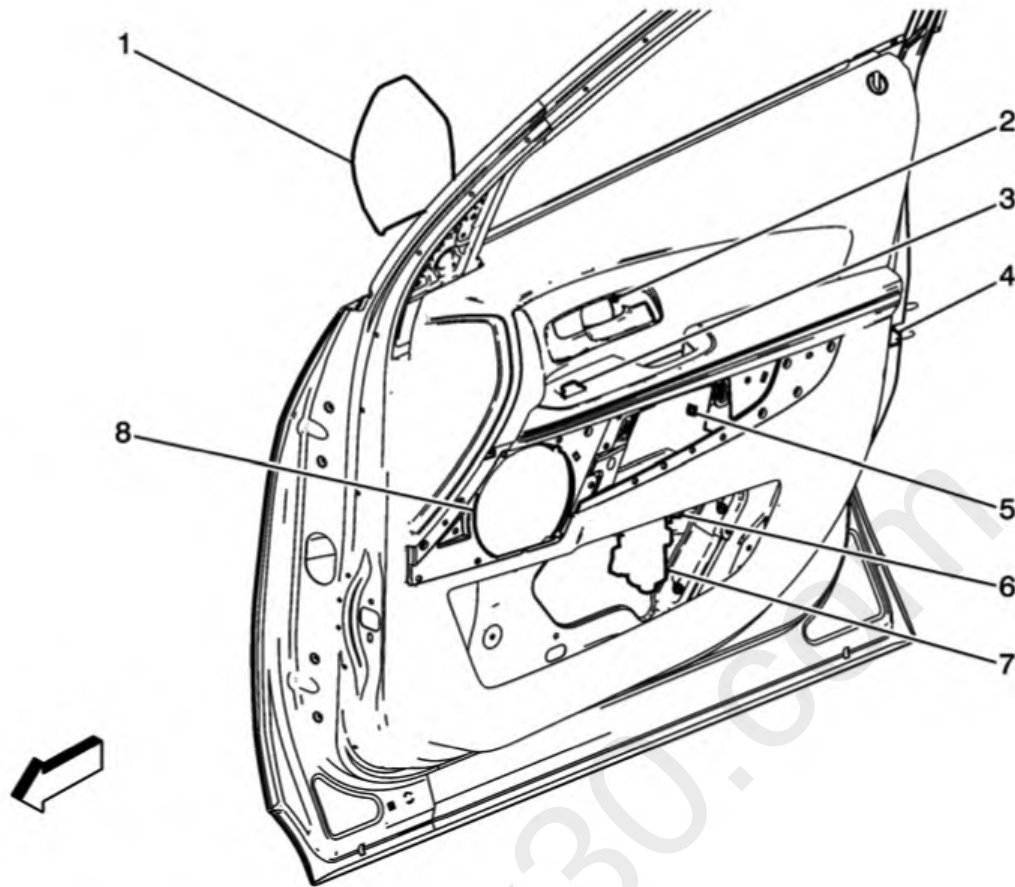
Courtesy of GENERAL MOTORS CORP.



- (1) A23D Door Latch Assembly - Driver
- (2) A9A Outside Rearview Mirror - Driver
- (3) E1C Accent Lamp - Driver Door Handle
- (4) K96 Mirror Control Module (LTZ or SLT)
- (5) S52S Outside Rearview Mirror Switch
- (6) P19G Speaker - Left Front
- (7) M74D Window Motor - Driver
- (8) B63LF Side Impact Sensor - Left Front
- (9) S79D Window Switch - Driver
- (10) E1D Accent Lamp - Driver Door

Fig. 3: Driver Door

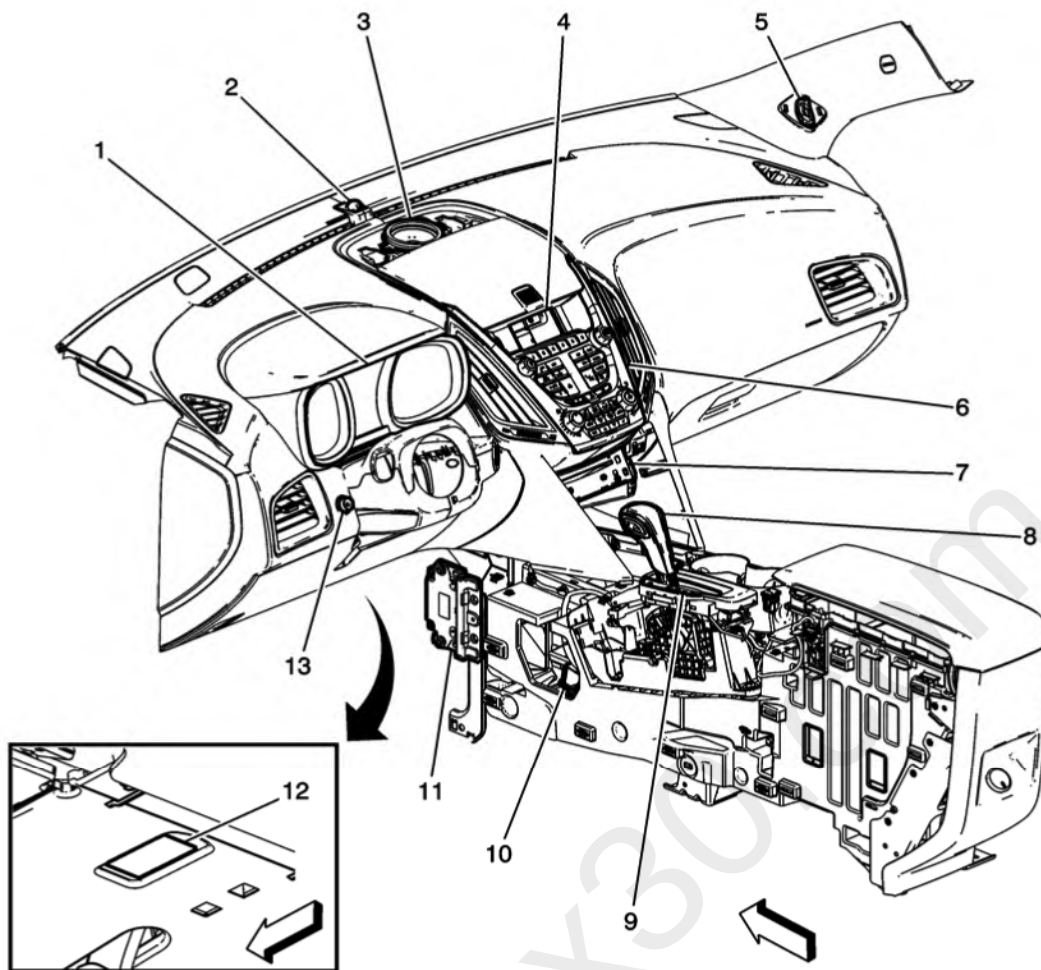
Courtesy of GENERAL MOTORS CORP.



- (1) A9B Outside Rearview Mirror - Passenger
- (2) E1M Accent Lamp - Passenger Door Handle
- (3) S79P Window Switch - Passenger
- (4) A23P Door Latch Assembly - Passenger
- (5) E1P Accent Lamp - Passenger Door
- (6) B63RF Side Impact Sensor - Right Front
- (7) M74P Window Motor - Passenger
- (8) P19U Speaker - Right Front

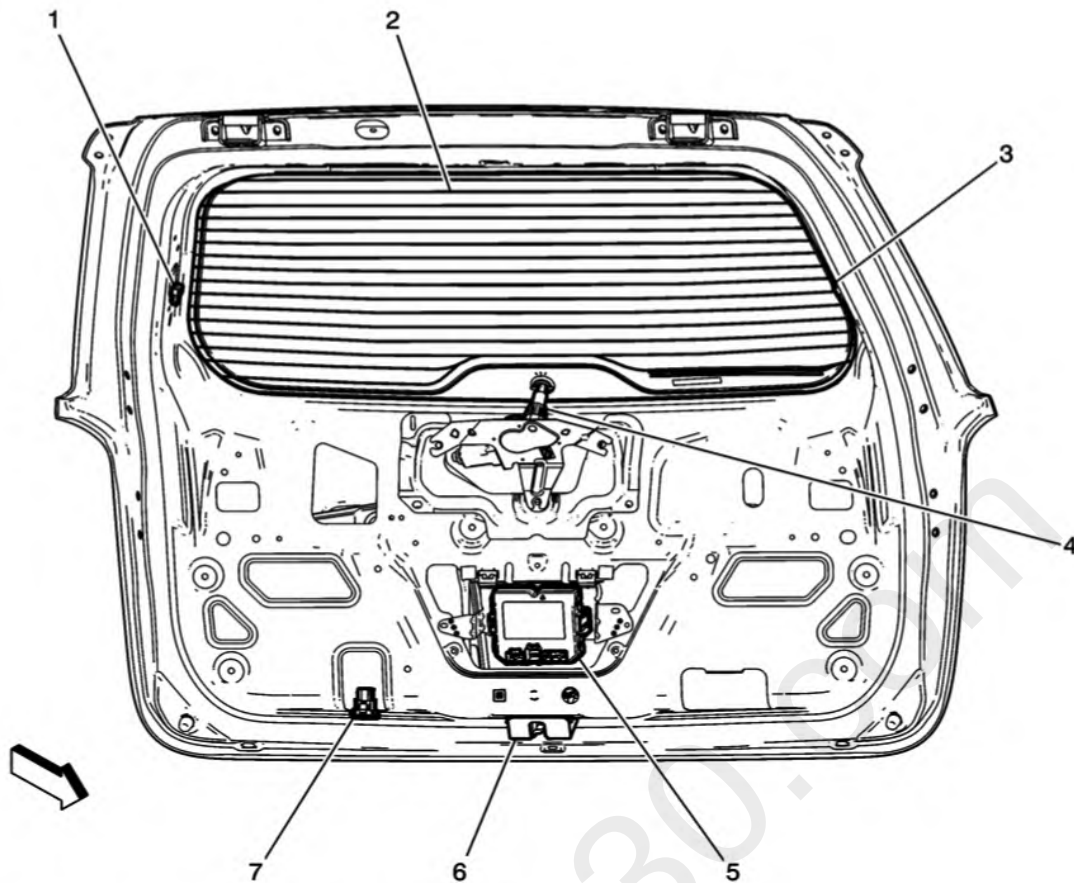
Fig. 4: Passenger Door

Courtesy of GENERAL MOTORS CORP.



- (1) P16 Instrument Cluster
- (2) B10B Ambient Light/Sunload Sensor (C68) or B10 Ambient Light Sensor (C67)
- (3) P19B Speaker - Center Instrument Panel (UZ8)
- (4) P17 Info Display Module
- (5) P19V Speaker - Right Front Tweeter
- (6) A20 Radio/HVAC Controls
- (7) A11 Radio
- (8) S3 Transmission Shift Lever
- (9) P2 Transmission Shift Lever Position Indicator
- (10) T11 Multimedia Player Interface Module (KTA)
- (11) K108 Active Noise Cancellation Module (VQN)
- (12) E8J Instrument Panel Courtesy Lamp - Left
- (13) S36 Instrument Panel Dimmer Switch

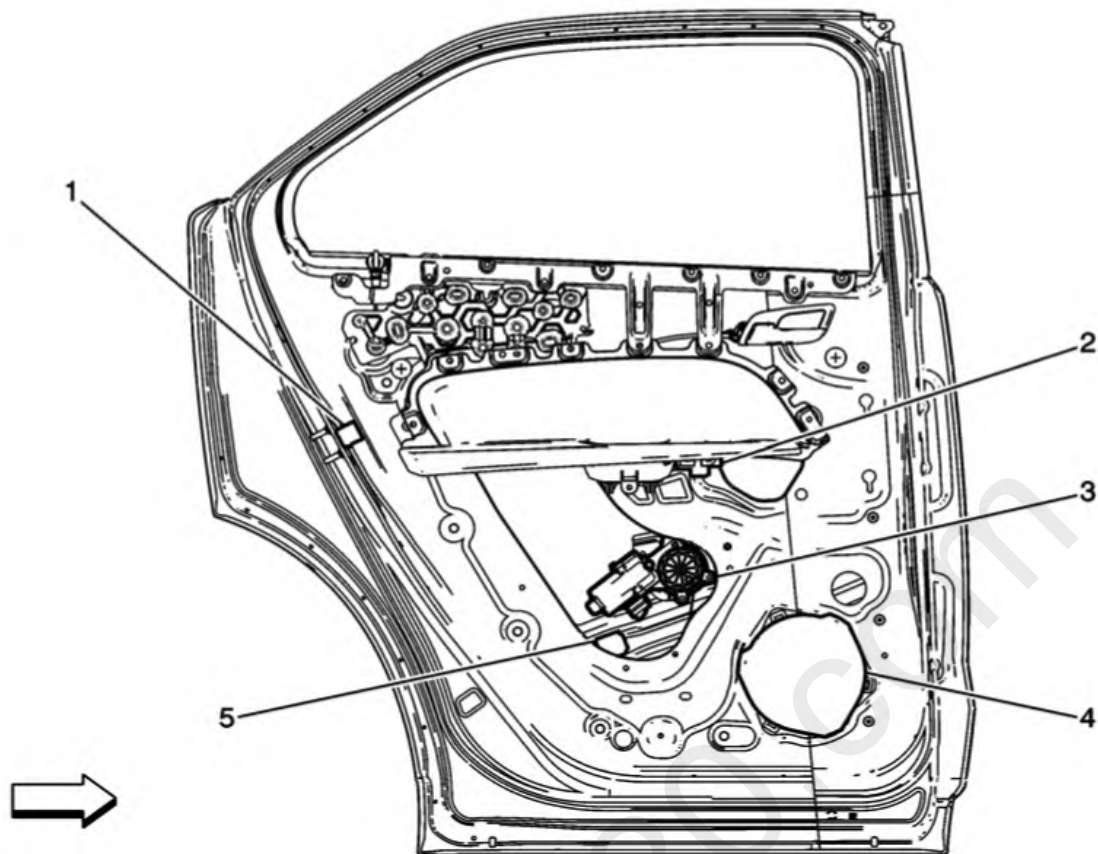
Fig. 5: Dash & Console
Courtesy of GENERAL MOTORS CORP.



- (1) B71R Liftgate Object Sensor - Right (TB5)
- (2) E18 Rear Defogger Grid
- (3) B71L Liftgate Object Sensor - Left (TB5)
- (4) M45 Rear Wiper Motor
- (5) K39 Liftgate Control Module (TB5)
- (6) A23C Liftgate Latch Assembly
- (7) B70 Liftgate Close Switch (TB5)

Fig. 6: Liftgate

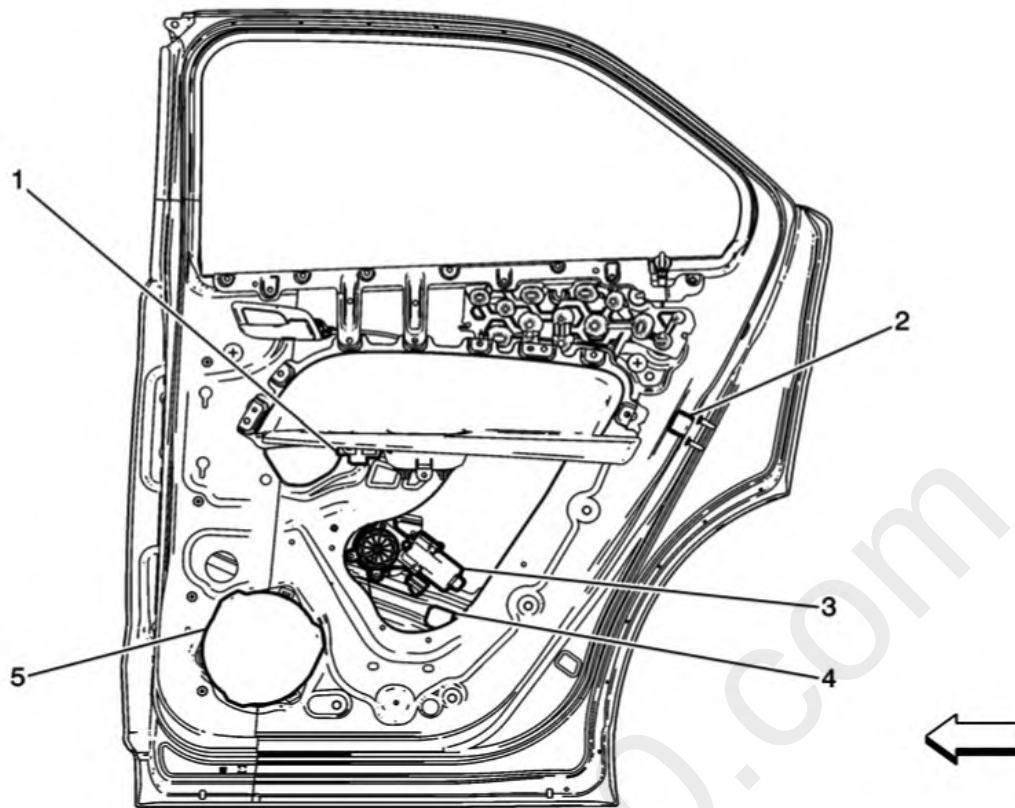
Courtesy of GENERAL MOTORS CORP.



- (1) A23LR Door Latch Assembly - Left Rear
- (2) S79LR Window Switch - Left Rear
- (3) M74LR Window Motor - Left Rear
- (4) P19K Speaker - Left Rear
- (5) B63LR Side Impact Sensor - Left Rear

Fig. 7: Left Rear Door

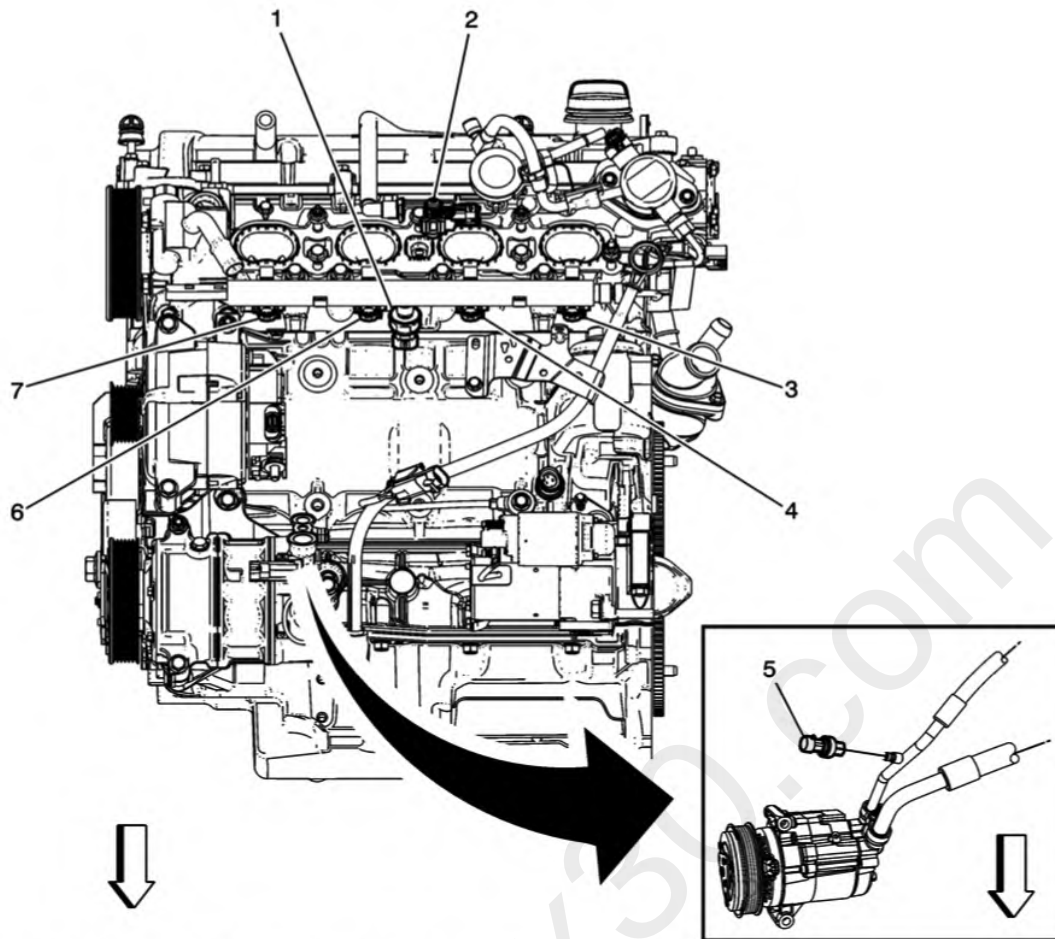
Courtesy of GENERAL MOTORS CORP.



- (1) S79RR Window Switch - Right Rear
- (2) A23RR Door Latch Assembly - Right Rear
- (3) M74RR Window Motor - Right Rear
- (4) B63RR Side Impact Sensor - Right Rear
- (5) P19X Speaker - Right Rear

Fig. 8: Right Rear Door

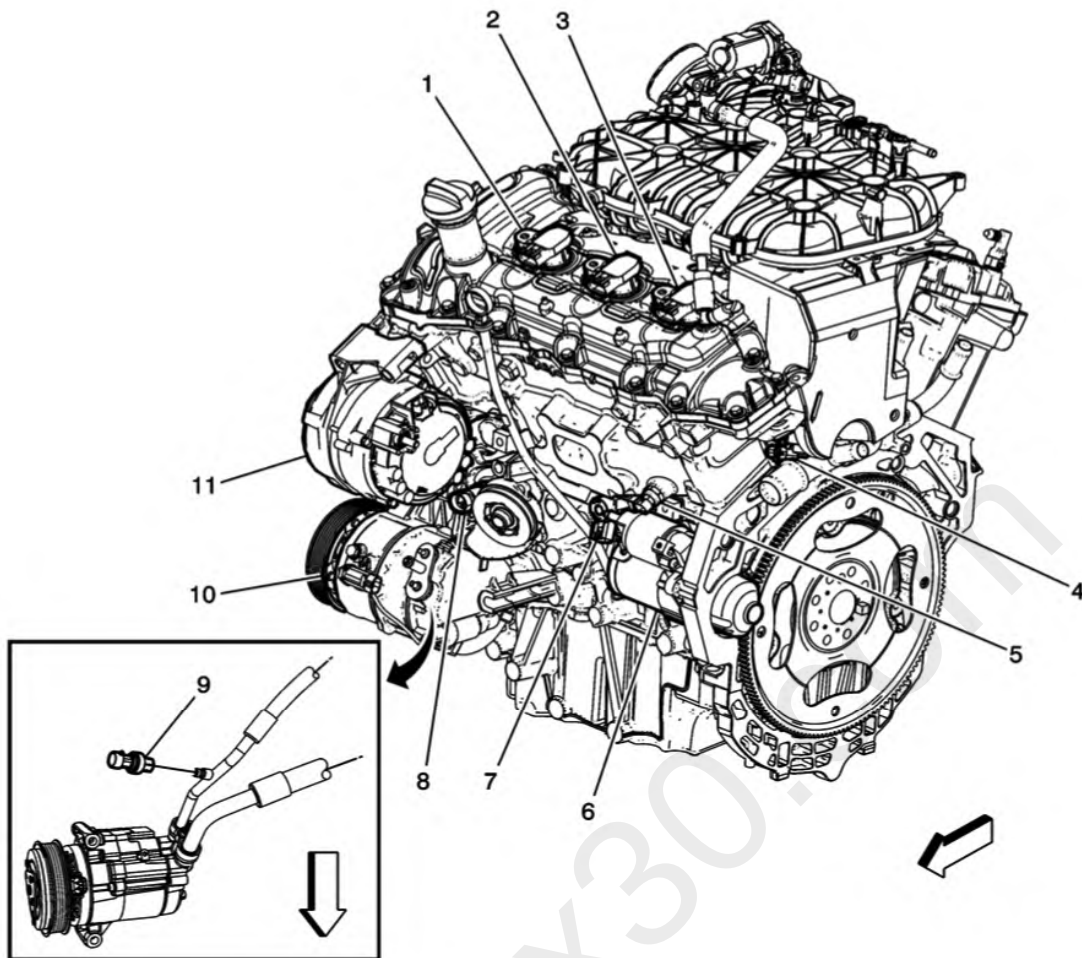
Courtesy of GENERAL MOTORS CORP.



- (1) B47B Fuel Rail Pressure Sensor
- (2) B74 Manifold Absolute Pressure Sensor
- (3) Q17D Fuel Injector 4
- (4) Q17C Fuel Injector 3
- (5) B1 A/C Refrigerant Pressure Sensor
- (6) Q17B Fuel Injector 2
- (7) Q17A Fuel Injector 1

Fig. 9: Engine (2.4L)

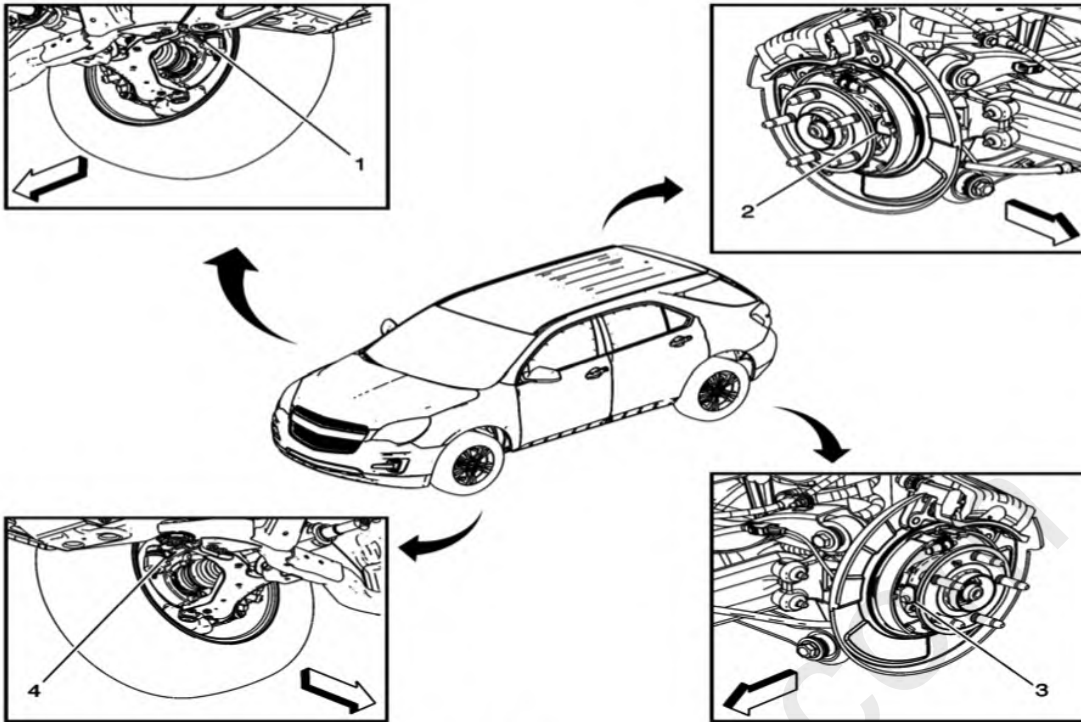
Courtesy of GENERAL MOTORS CORP.



- (1) T8B Ignition Coil 2
- (2) T8D Ignition Coil 4
- (3) T8F Ignition Coil 6
- (4) G18 High Pressure Fuel Pump
- (5) B34 Engine Coolant Temperature Sensor
- (6) M64 Starter Motor
- (7) B68B Knock Sensor 2
- (8) B37 Engine Oil Pressure Switch
- (9) B1 A/C Refrigerant Pressure Sensor
- (10) Q2 A/C Compressor Clutch
- (11) G13 Generator

Fig. 10: Engine (3.0L)

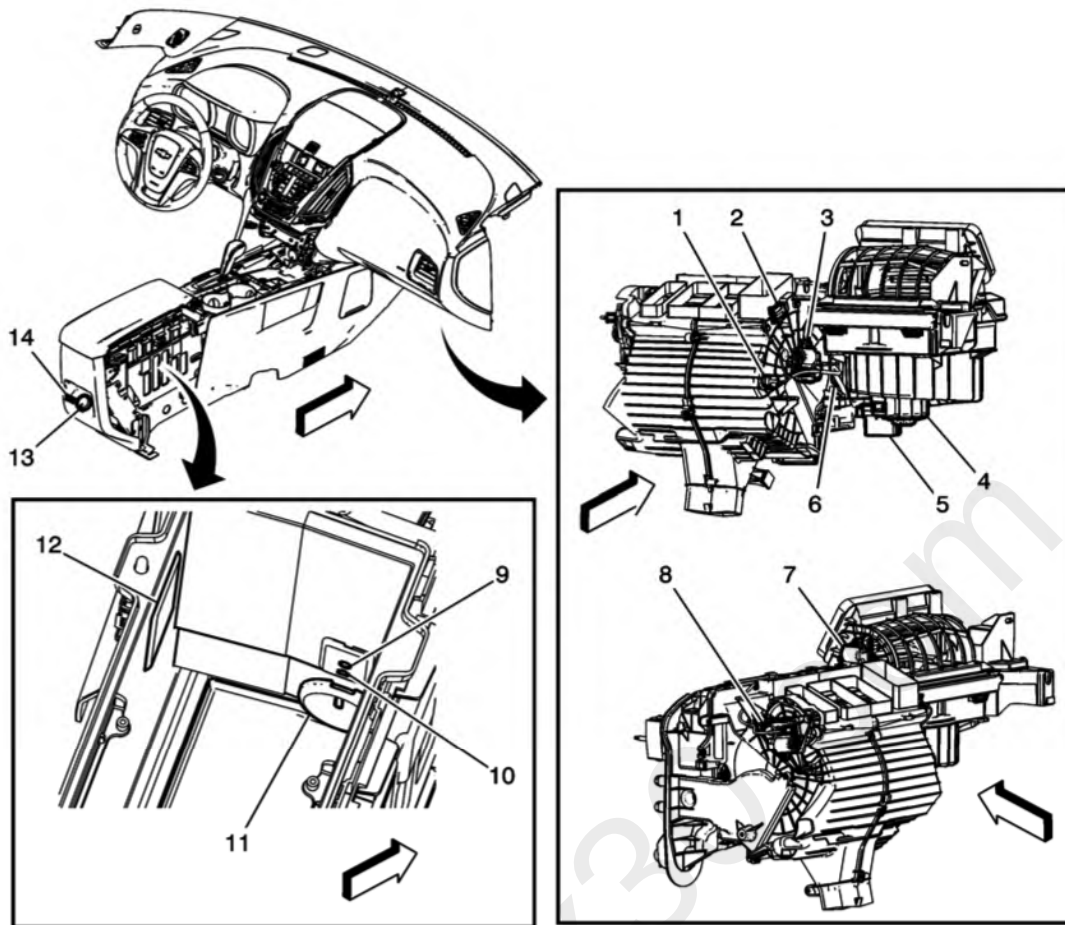
Courtesy of GENERAL MOTORS CORP.



- (1) B5RF Wheel Speed Sensor - Right Front
- (2) B5RR Wheel Speed Sensor - Right Rear
- (3) B5LR Wheel Speed Sensor - Left Rear
- (4) B5LF Wheel Speed Sensor - Left Front

Fig. 11: Wheel Hubs

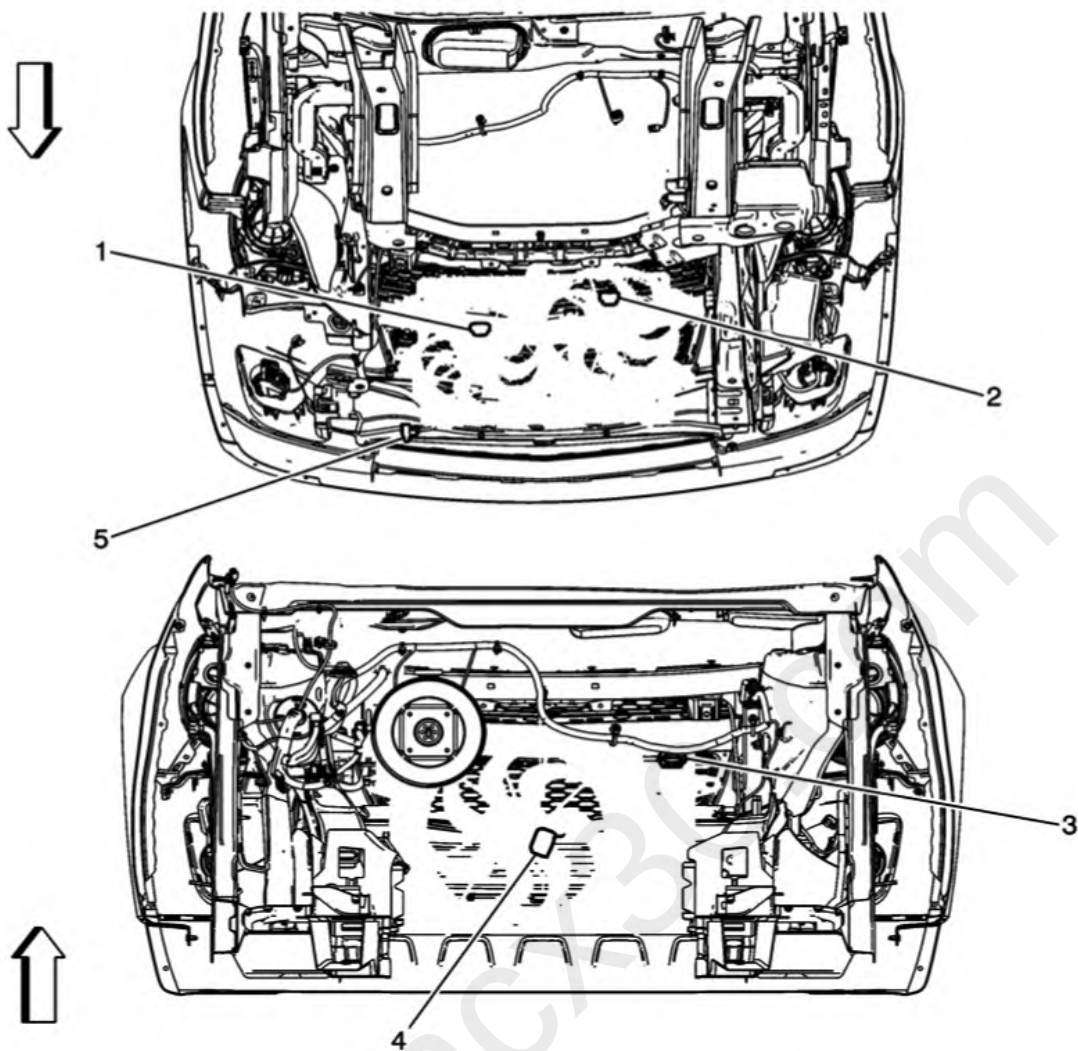
Courtesy of GENERAL MOTORS CORP.



- (1) B7E Air Temperature Sensor - Duct Right Lower
- (2) B7J Air Temperature Sensor - Duct Right Upper
- (3) M6 Air Temperature Door Actuator
- (4) M8 Blower Motor
- (5) K8 Blower Motor Control Module
- (6) B39 A/C Evaporator Temperature Sensor
- (7) M46 Air Recirculation Door Motor
- (8) M37 Mode Door Actuator
- (9) X83 Auxiliary Audio Input X1 (without UWG)
- (10) X83 Auxiliary Audio Input X2 (without UWG)
- (11) X80A Accessory Power Receptacle - Center Console 1
- (12) E28 Center Console Compartment Lamp (TSP or TSQ)
- (13) X80B Accessory Power Receptacle - Center Console 2
- (14) X82 Audio/Video Input Adapter (UWG)

Fig. 12: HVAC Module

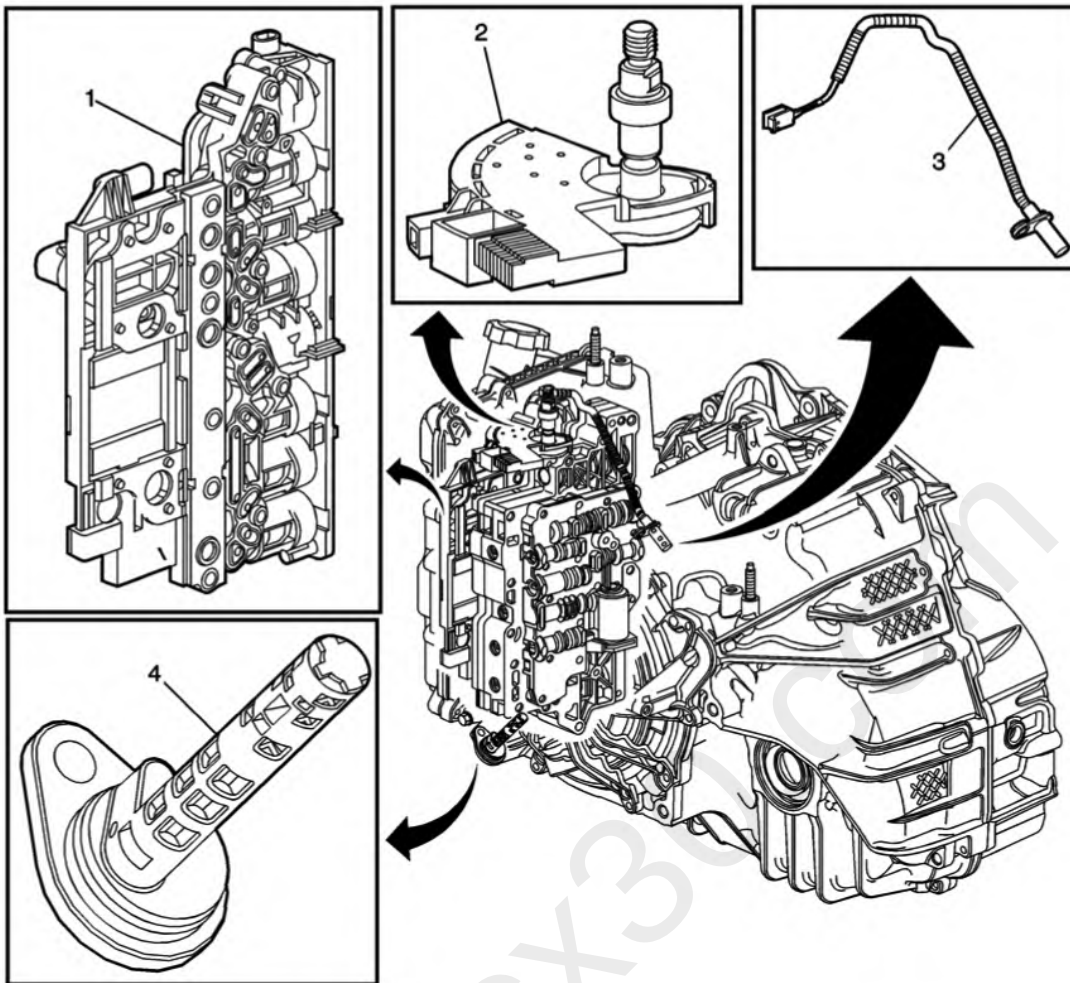
Courtesy of GENERAL MOTORS CORP.



- (1) G10R Cooling Fan Motor - Right (LF1)
- (2) G10L Cooling Fan Motor - Left (LF1)
- (3) R10 Cooling Fan Resistor (LAF)
- (4) G10 Cooling Fan Motor (LAF)
- (5) B9 Ambient Air Temperature Sensor

Fig. 13: Engine Compartment

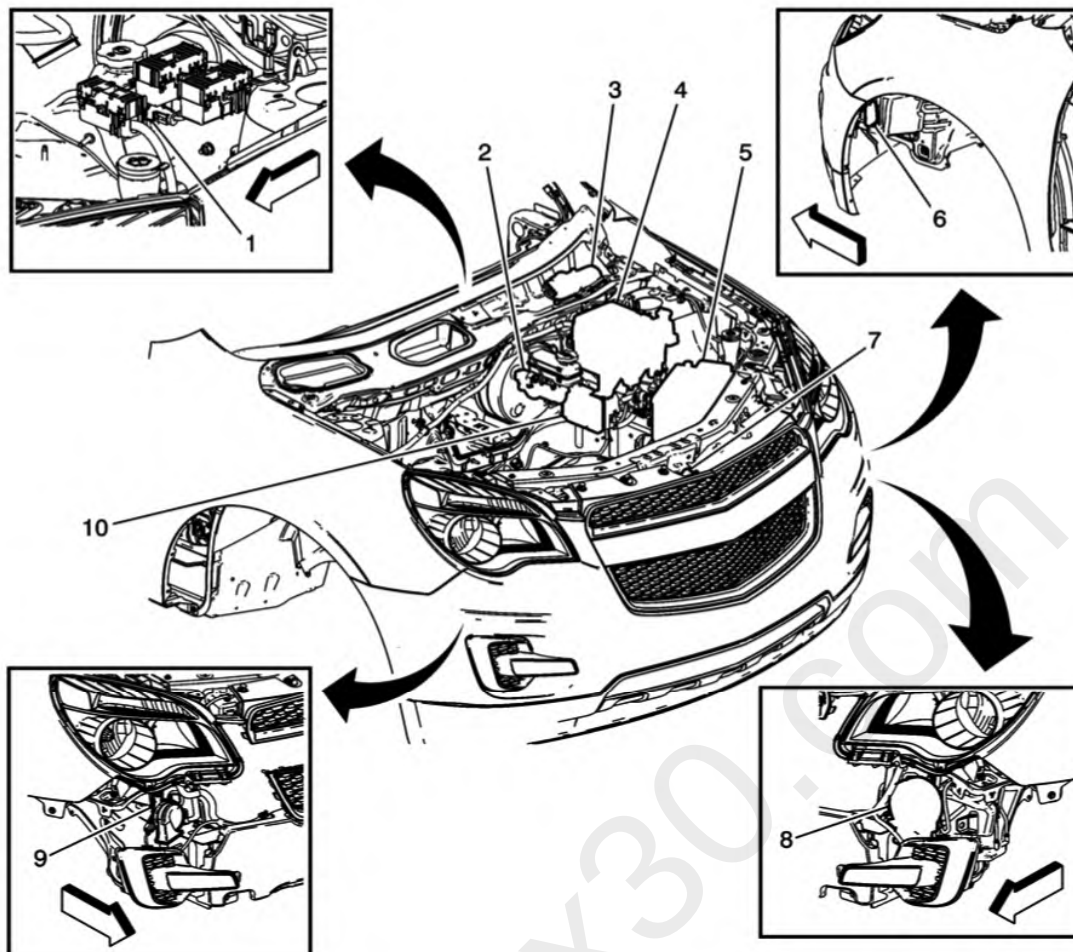
Courtesy of GENERAL MOTORS CORP.



- (1) Q8 Control Solenoid Valve Assembly
- (2) B15 Transmission Internal Mode Switch
- (3) B14A Transmission Output Shaft Speed Sensor
- (4) B14C Transmission Input Shaft Speed Sensor

Fig. 14: Transmission

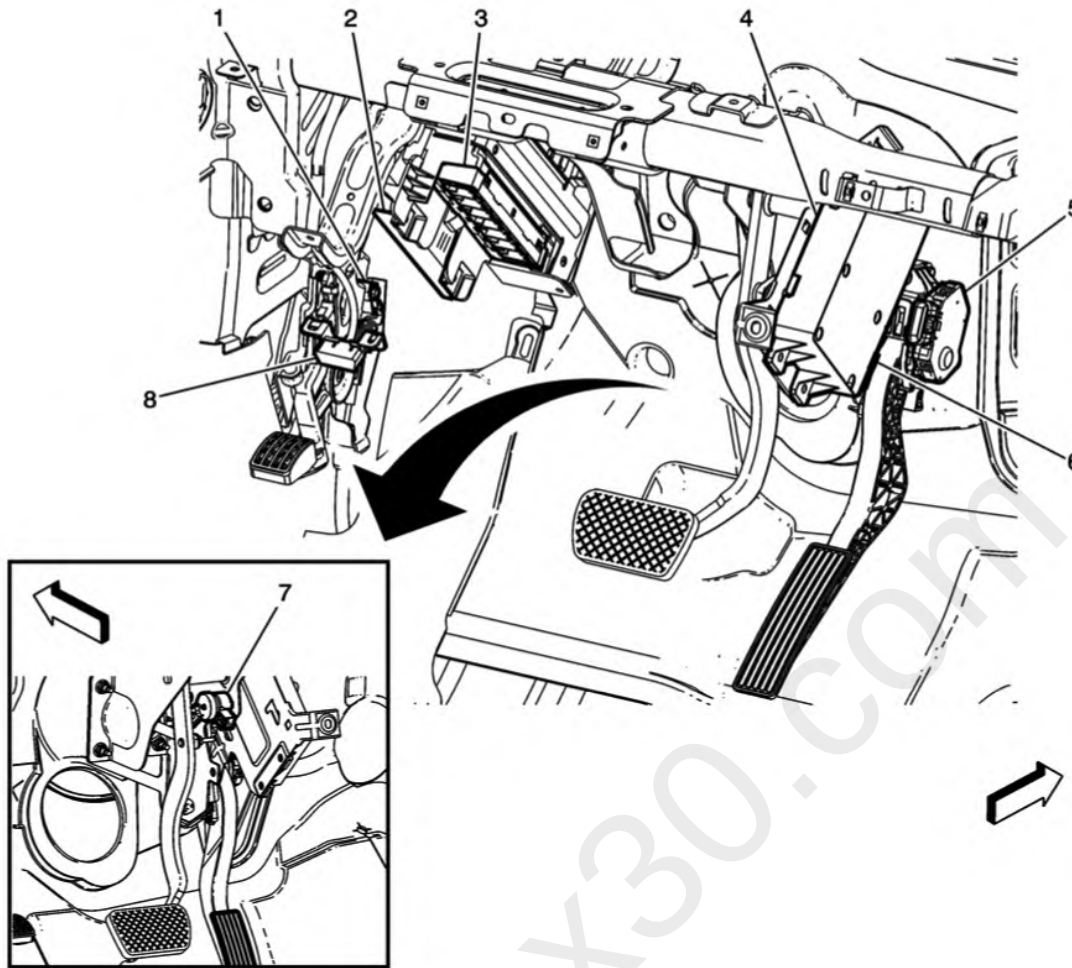
Courtesy of GENERAL MOTORS CORP.



- (1) B20 Brake Fluid Level Switch
- (2) B19B Brake Booster Vacuum Sensor
- (3) M75 Windshield Wiper Motor
- (4) X50A Fuse Block - Underhood
- (5) C1 Battery
- (6) G24 Windshield Washer Pump
- (7) B55 Hood Ajar Switch (BTV)
- (8) P12B Horn - Low Note
- (9) P12A Horn - High Note
- (10) K17 Electronic Brake Control Module

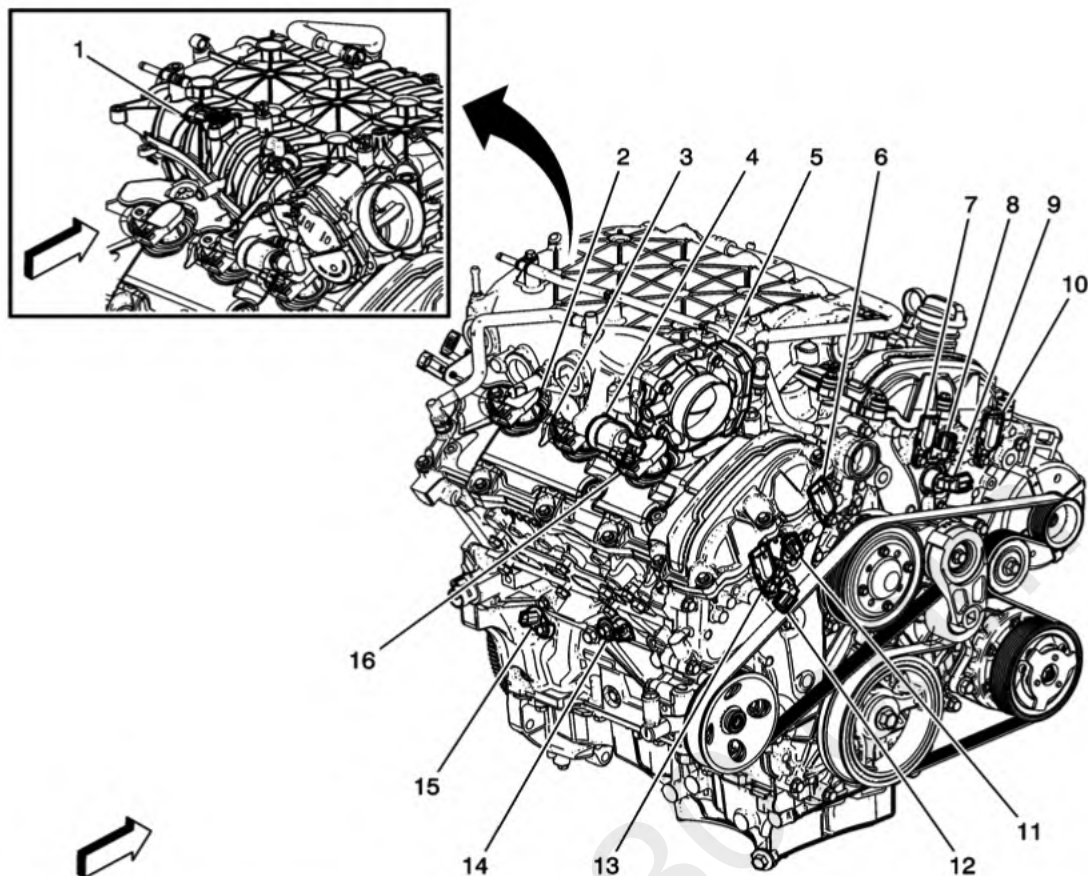
Fig. 15: Engine Compartment

Courtesy of GENERAL MOTORS CORP.



- (1) B80 Park Brake Switch
- (2) T3 Audio Amplifier
- (3) K9 Body Control Module
- (4) K73 Telematics Communication Interface Control Module (UE1)
- (5) B107 Accelerator Pedal Position Sensor
- (6) T4S Wireless Communication Antenna - Bluetooth (UE1 with UPF)
- (7) B22 Brake Pedal Position Sensor
- (8) X84 Data Link Connector

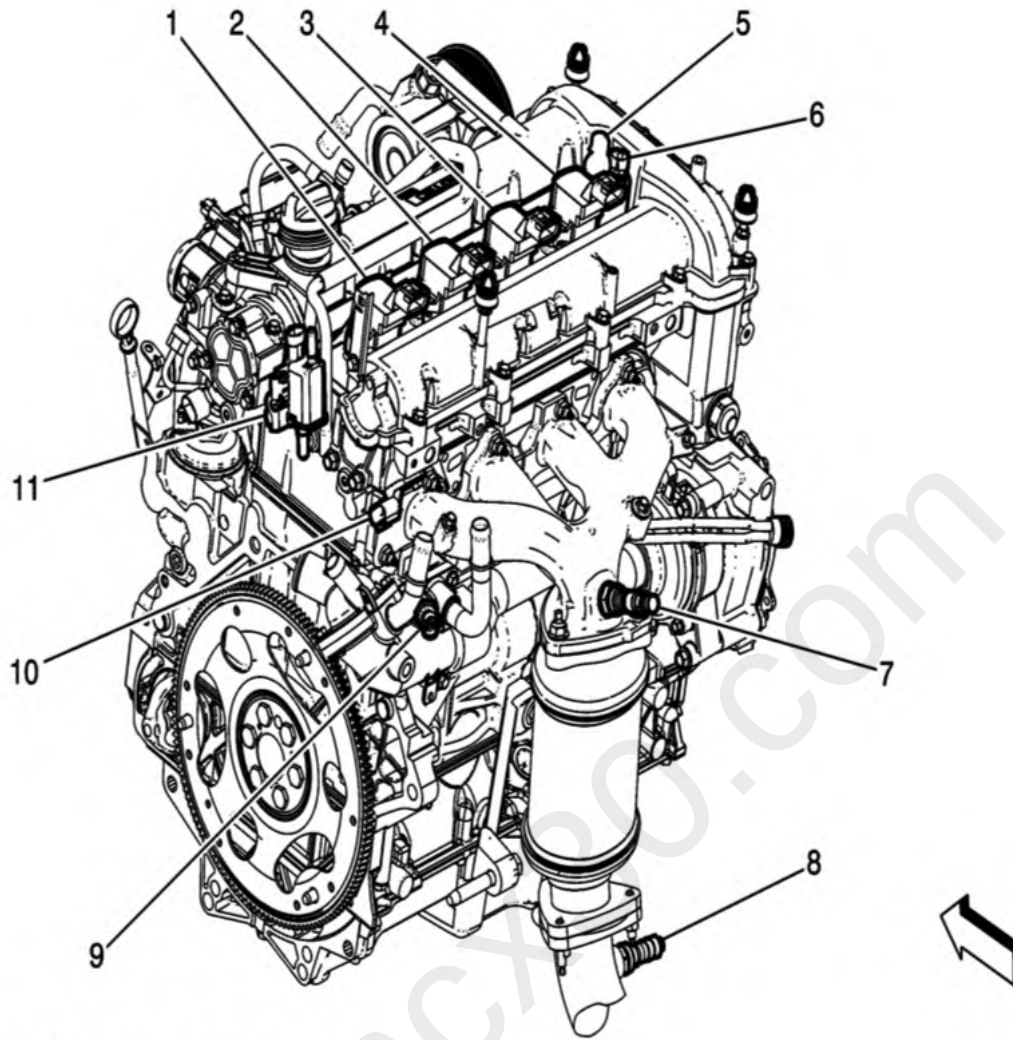
Fig. 16: Passenger Compartment
Courtesy of GENERAL MOTORS CORP.



- (1) B74 Manifold Absolute Pressure Sensor
- (2) T8E Ignition Coil 5
- (3) T8C Ignition Coil 3
- (4) Q12 Evaporative Emission Purge Solenoid Valve
- (5) Q38 Throttle Body
- (6) B23B Camshaft Position Sensor - Bank 1 Intake
- (7) B23D Camshaft Position Sensor - Bank 2 Intake
- (8) Q6D Camshaft Position Actuator Solenoid Valve - Bank 2 Intake
- (9) Q6C Camshaft Position Actuator Solenoid Valve - Bank 2 Exhaust
- (10) B23C Camshaft Position Sensor - Bank 2 Exhaust
- (11) Q6B Camshaft Position Actuator Solenoid Valve - Bank 1 Intake
- (12) Q6A Camshaft Position Actuator Solenoid Valve - Bank 1 Exhaust
- (13) B23A Camshaft Position Sensor - Bank 1 Exhaust
- (14) B68A Knock Sensor 1
- (15) B26 Crankshaft Position Sensor
- (16) T8A Ignition Coil 1

Fig. 17: Engine (3.0L)

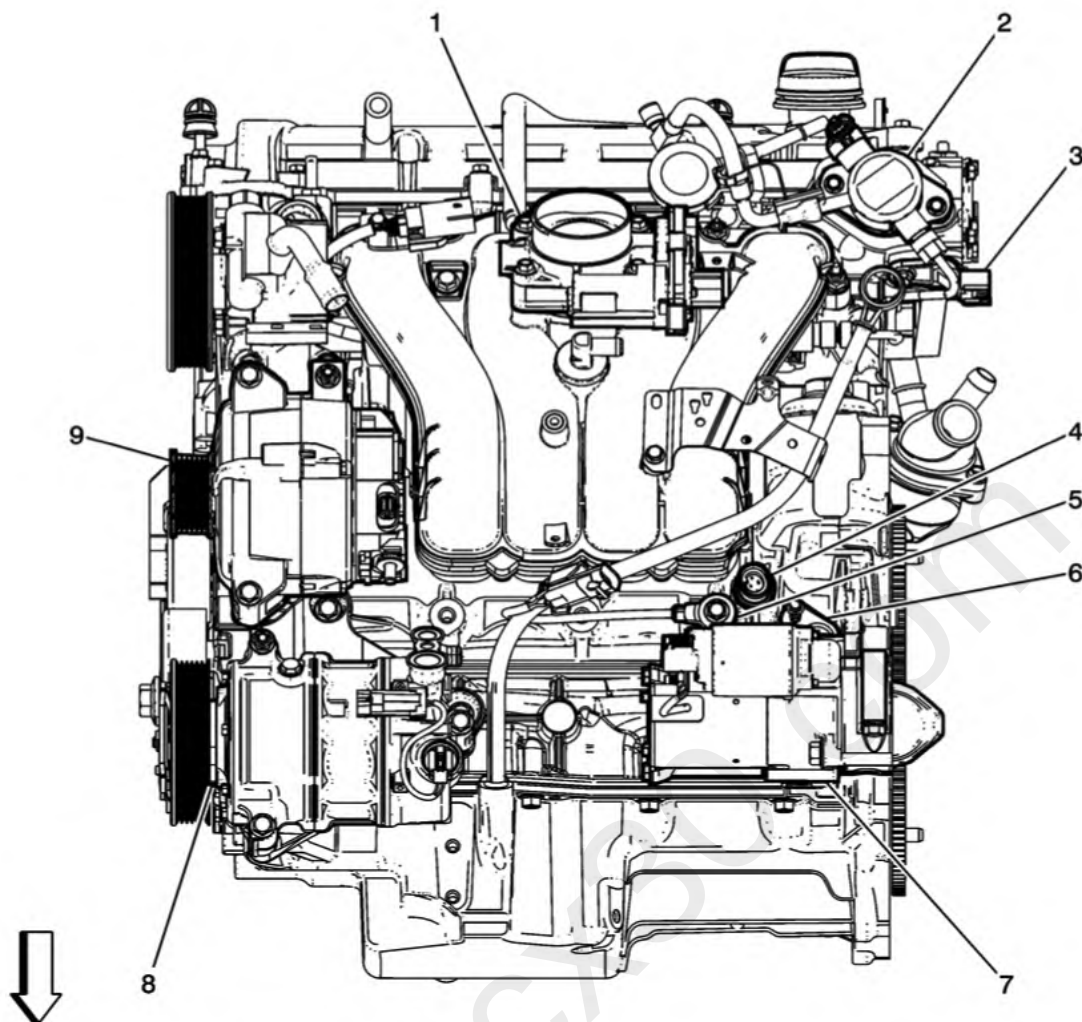
Courtesy of GENERAL MOTORS CORP.



- (1) T8D Ignition Coil 4
- (2) T8C Ignition Coil 3
- (3) T8B Ignition Coil 2
- (4) T8A Ignition Coil 1
- (5) Q6F Camshaft Position Actuator Solenoid Valve - Intake
- (6) Q6E Camshaft Position Actuator Solenoid Valve - Exhaust
- (7) B52A Heated Oxygen Sensor 1
- (8) B52B Heated Oxygen Sensor 2
- (9) B34 Engine Coolant Temperature Sensor
- (10) B23E Camshaft Position Sensor - Exhaust
- (11) Q12 Evaporative Emission Purge Solenoid Valve

Fig. 18: Engine (2.4L)

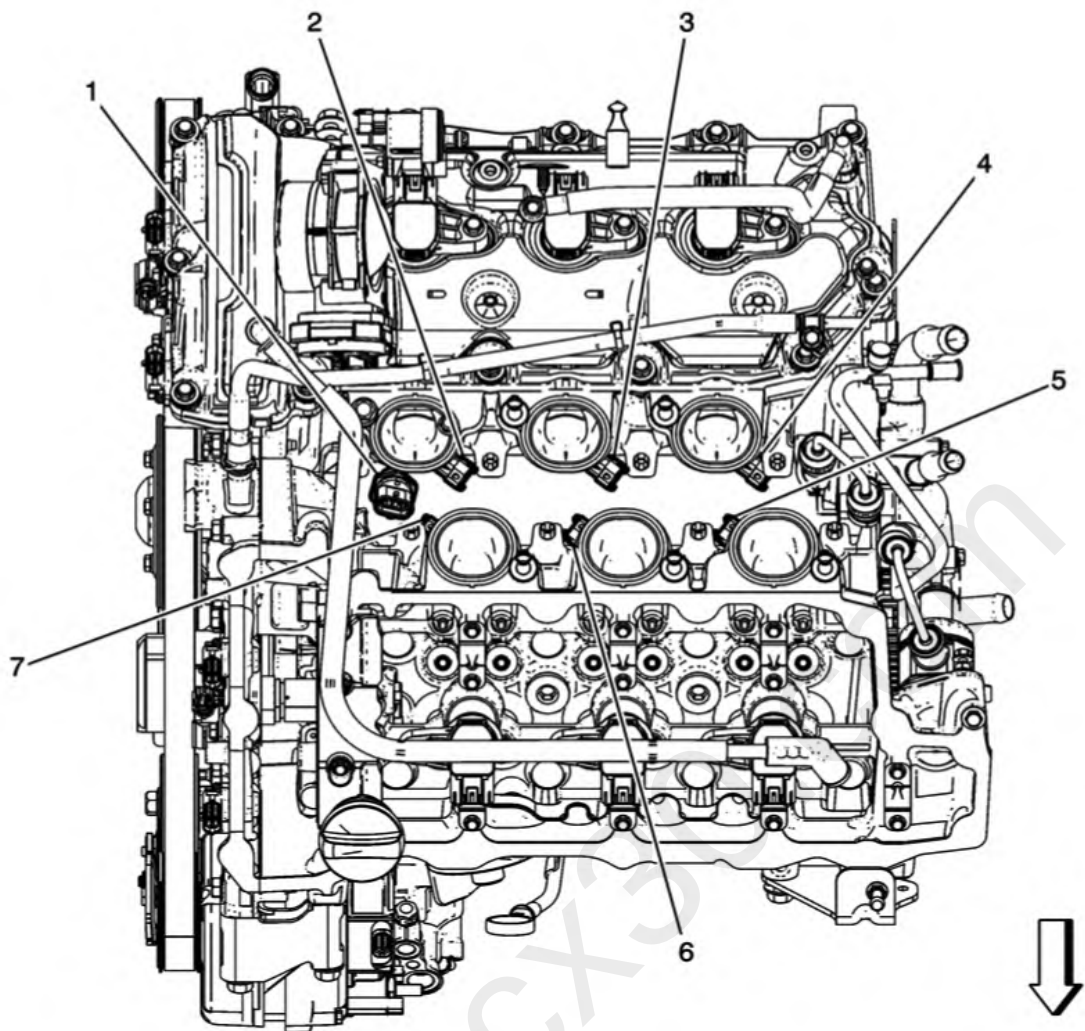
Courtesy of GENERAL MOTORS CORP.



- (1) Q38 Throttle Body
- (2) G18 High Pressure Fuel Pump
- (3) B23F Camshaft Position Sensor - Intake
- (4) B37 Engine Oil Pressure Switch
- (5) B68 Knock Sensor
- (6) B26 Crankshaft Position Sensor
- (7) M64 Starter Motor
- (8) Q2 A/C Compressor Clutch
- (9) G13 Generator

Fig. 19: Engine (2.4L)

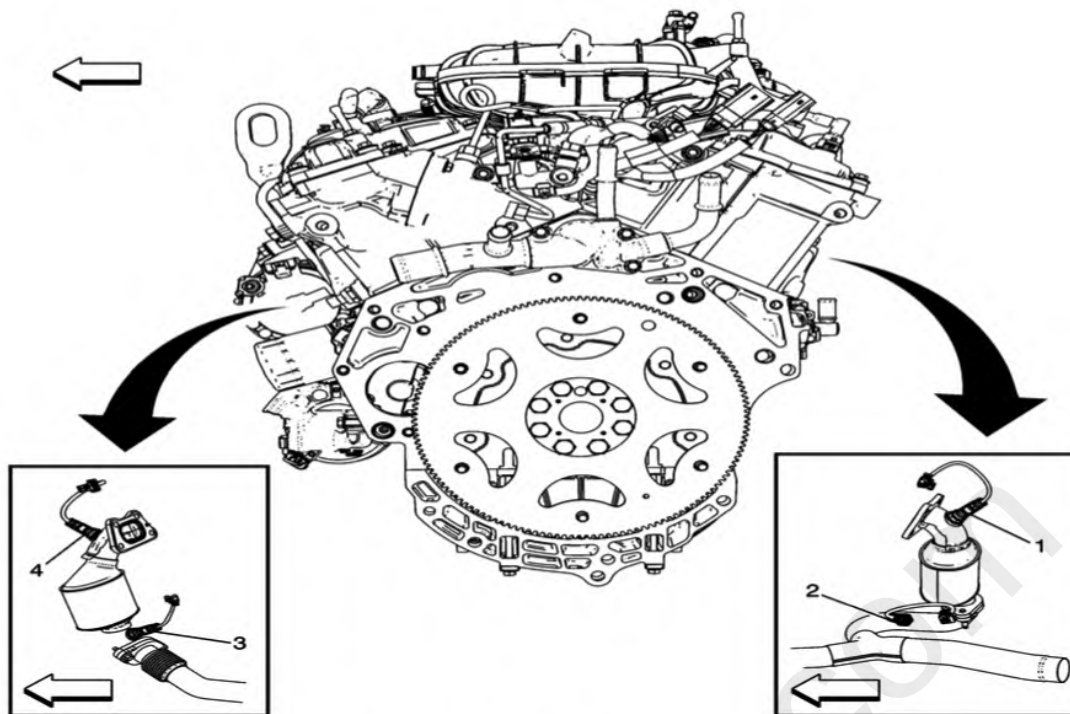
Courtesy of GENERAL MOTORS CORP.



- (1) B47B Fuel Rail Pressure Sensor
- (2) Q17A Fuel Injector 1
- (3) Q17C Fuel Injector 3
- (4) Q17E Fuel Injector 5
- (5) Q17F Fuel Injector 6
- (6) Q17D Fuel Injector 4
- (7) Q17B Fuel Injector 2

Fig. 20: Engine (3.0L)

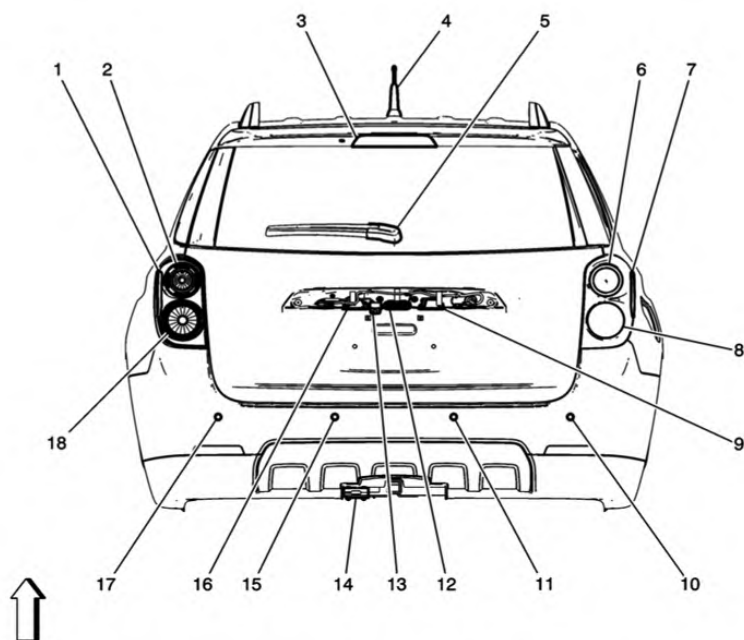
Courtesy of GENERAL MOTORS CORP.



- (1) B52C Heated Oxygen Sensor - Bank 1 Sensor 1
- (2) B52D Heated Oxygen Sensor - Bank 1 Sensor 2
- (3) B52F Heated Oxygen Sensor - Bank 2 Sensor 2
- (4) B52E Heated Oxygen Sensor - Bank 2 Sensor 1

Fig. 21: Engine (3.0L)

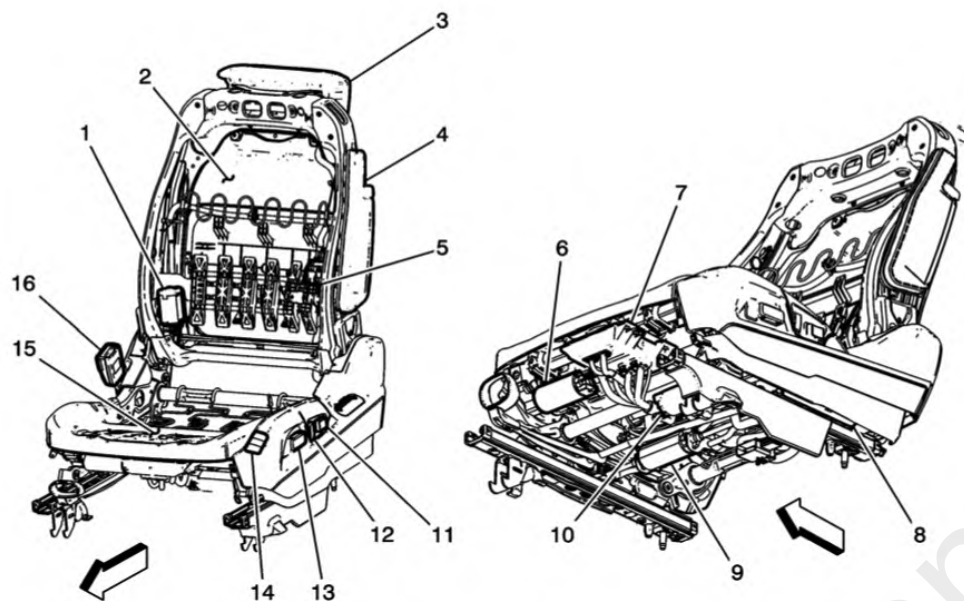
Courtesy of GENERAL MOTORS CORP.



- | | |
|---|--|
| (1) E2LR Side Marker Lamp - Left Rear | (13) B87 Rearview Camera (UVC) |
| (2) E5A Backup Lamp - Left | (14) X88 Trailer Connector (V92) |
| (3) E6 Center High Mounted Stop Lamp | (15) B78E Rear Object Sensor - Left Middle (UD7) |
| (4) T4G Cellular Phone, Navigation, and Digital Radio Antenna | (16) E7L License Plate Lamp - Left |
| (5) M45 Rear Wiper Motor | (17) B78G Rear Object Sensor - Left Outer (UD7) |
| (6) E5B Backup Lamp - Right | (18) E5AC Tail/Turn Signal Lamp - Left |
| (7) E2RR Side Marker Lamp - Right Rear | |
| (8) E5AD Tail/Turn Signal Lamp - Right | |
| (9) E7R License Plate Lamp - Right | |
| (10) B78H Rear Object Sensor - Right Outer (UD7) | |
| (11) B78F Rear Object Sensor - Right Middle (UD7) | |
| (12) S46 Liftgate Handle Switch | |

Fig. 22: Vehicle Rear View

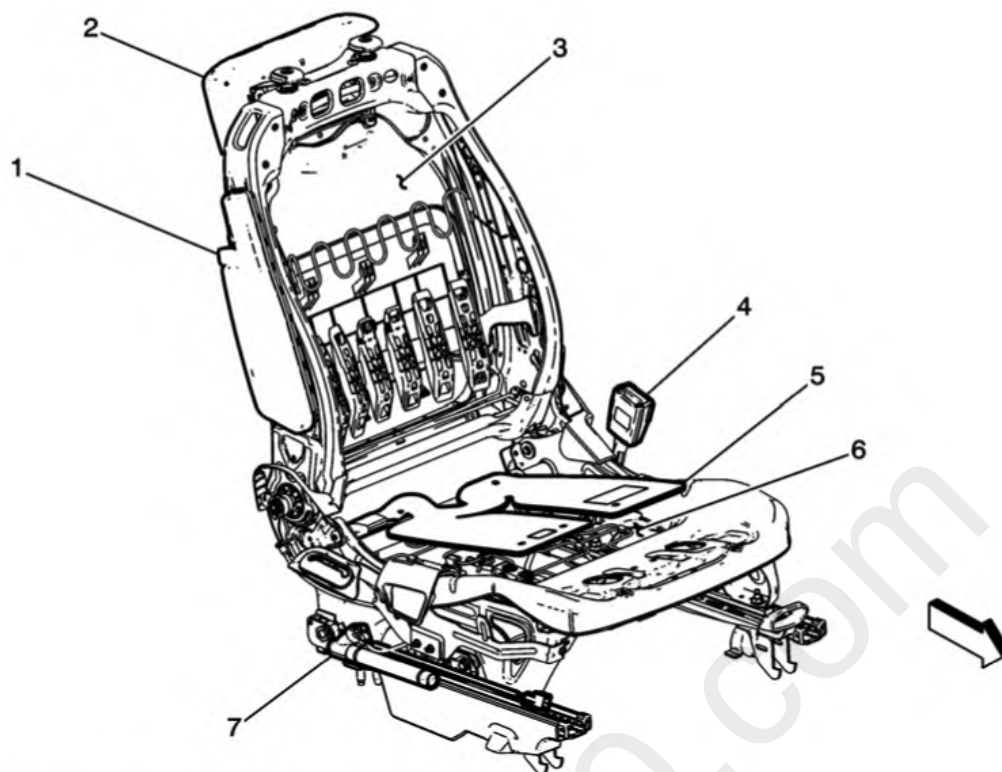
Courtesy of GENERAL MOTORS CORP.



- (1) M56D Seat Recline Motor - Driver (AE8)
- (2) E14A Seat Heating Element - Driver Back (KA1)
- (3) P22E Video Display - Driver Seatback (UWG)
- (4) F106L Side Air Bag - Left
- (5) M52D Seat Lumbar Support Horizontal Motor - Driver
- (6) M51D Seat Horizontal Motor - Driver (AE8)
- (7) K40 Seat Memory Control Module (LTZ or SLT) or K29 Seat Heating Control Module (KA1 without LTZ or SLT)
- (8) F113D Seat Belt Anchor Pretensioner - Driver
- (9) M55D Seat Rear Vertical Motor (AE8) or M57D Seat Vertical Motor (without AE8)
- (10) M50D Seat Front Vertical Motor - Driver
- (11) S65D Seat Lumbar Support Switch - Driver
- (12) S64D Seat Adjuster Switch - Driver (without AE8)
- (13) S64D Seat Adjuster Switch - Driver (AE8)
- (14) S47D Seat Memory Switch - Driver (LTZ or SLT)
- (15) E14B Seat Heating Element - Driver Cushion (KA1)
- (16) B88D Seat Belt Switch - Driver

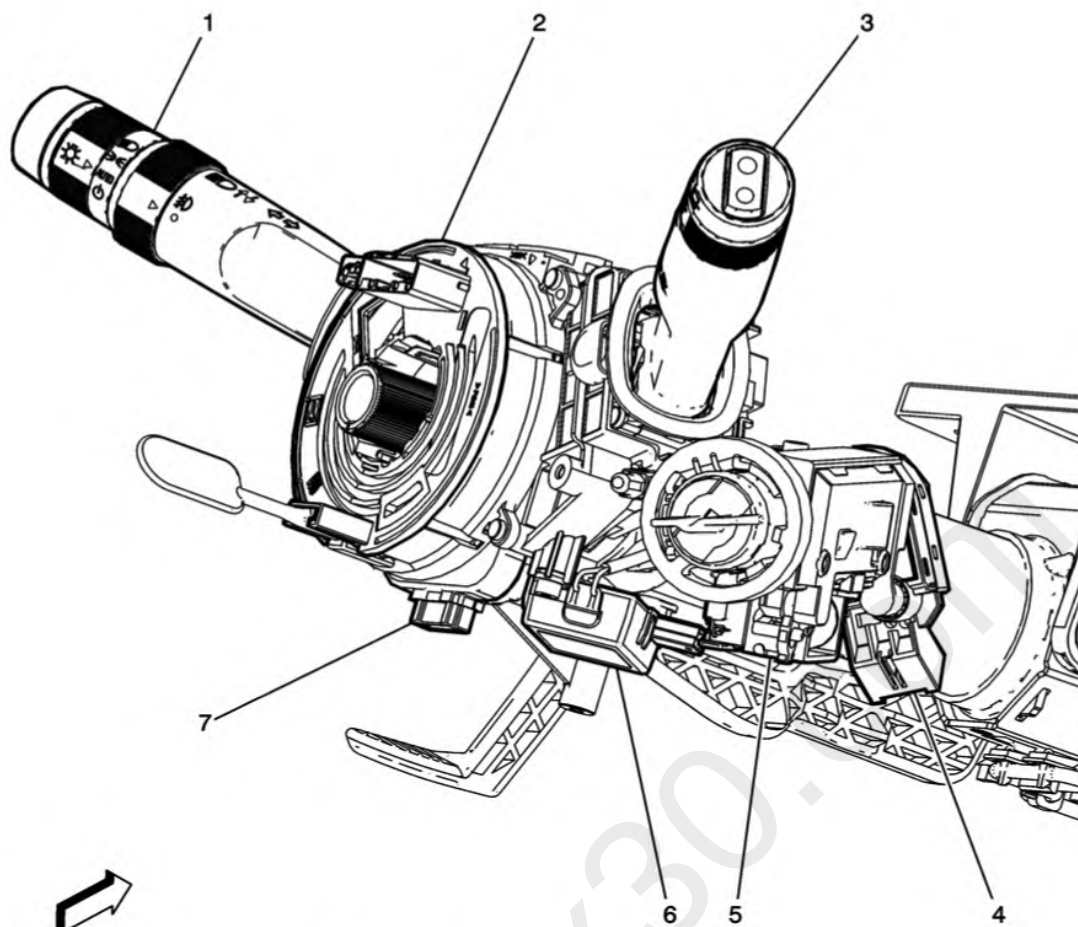
Fig. 23: Driver Seat

Courtesy of GENERAL MOTORS CORP.



- (1) F106R Side Air Bag - Right
- (2) P22F Video Display - Passenger Seatback (UWG)
- (3) E14C Seat Heating Element - Passenger Back (KA1)
- (4) B88P Seat Belt Switch - Passenger
- (5) K85 Passenger Presence Detection Module
- (6) E14D Seat Heating Element - Passenger Cushion (KA1)
- (7) F113P Seat Belt Anchor Pretensioner - Passenger

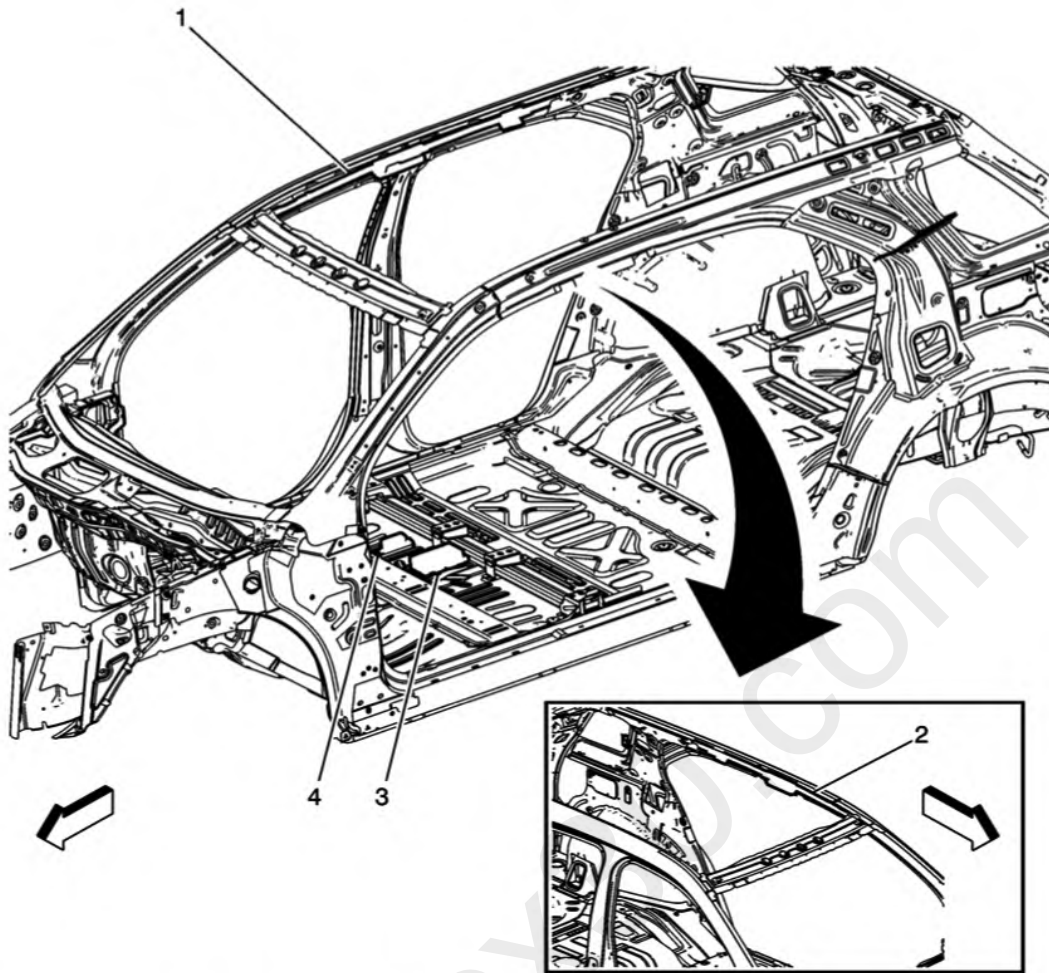
Fig. 24: Passenger Seat
Courtesy of GENERAL MOTORS CORP.



- (1) S78 Turn Signal/Multifunction Switch
- (2) X85 Steering Wheel Air Bag Coil
- (3) S82 Windshield Wiper/Washer Switch
- (4) S39 Ignition Switch
- (5) M93 Ignition Cylinder Lock Control Solenoid Actuator
- (6) B101 Immobilizer Antenna
- (7) B99 Steering Wheel Angle Sensor

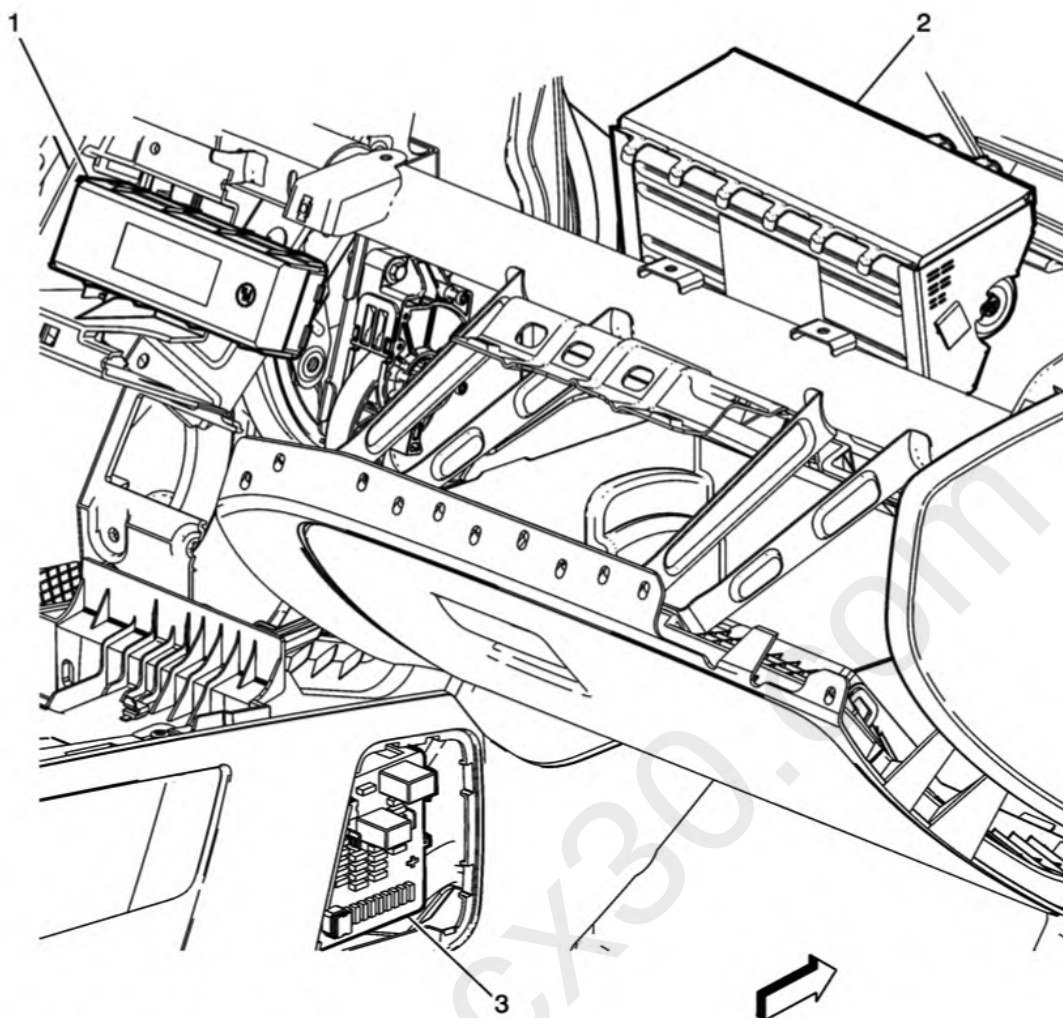
Fig. 25: Steering Column

Courtesy of GENERAL MOTORS CORP.



- (1) F105R Roof Rail Air Bag - Right
- (2) F105L Roof Rail Air Bag - Left
- (3) K36 Inflatable Restraint Sensing and Diagnostic Module
- (4) B119 Multi-axis Acceleration Sensor

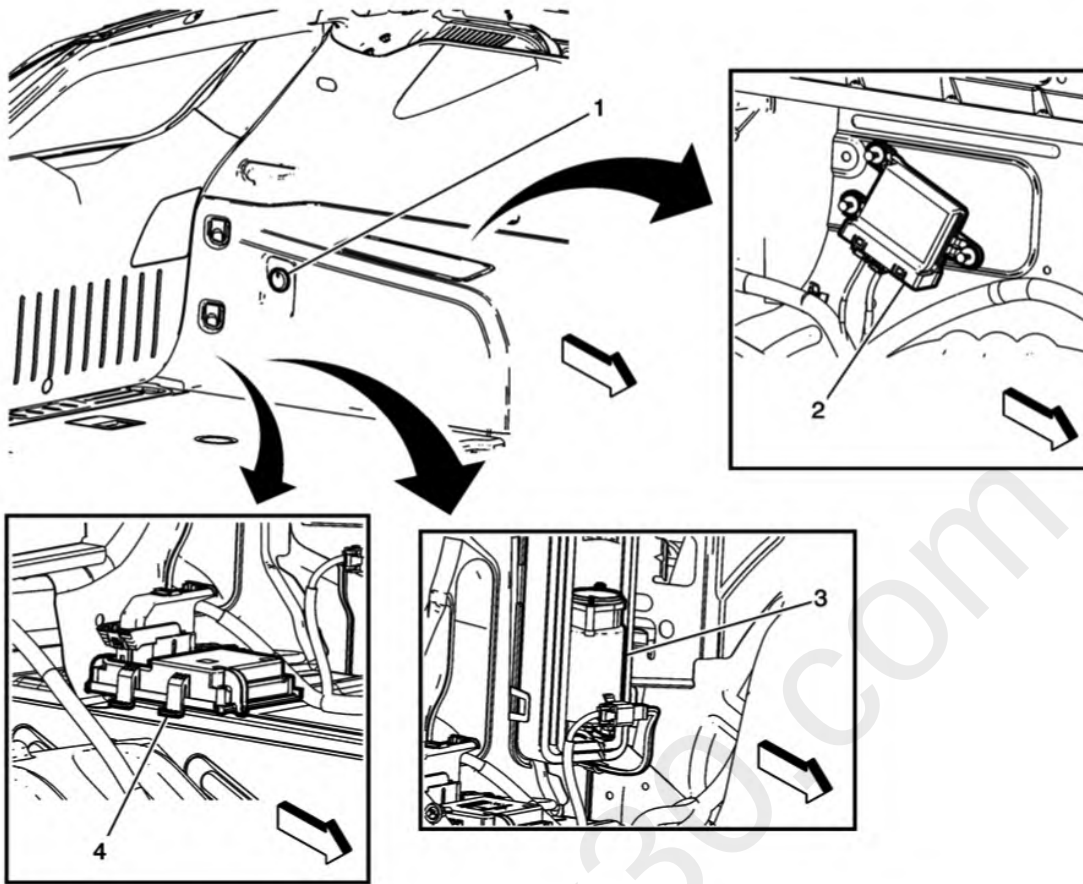
Fig. 26: Body Frame
Courtesy of GENERAL MOTORS CORP.



- (1) K33 HVAC Control Module
- (2) F105 Passenger Instrument Panel Air Bag
- (3) X51A Fuse Block - Instrument Panel

Fig. 27: Dashboard

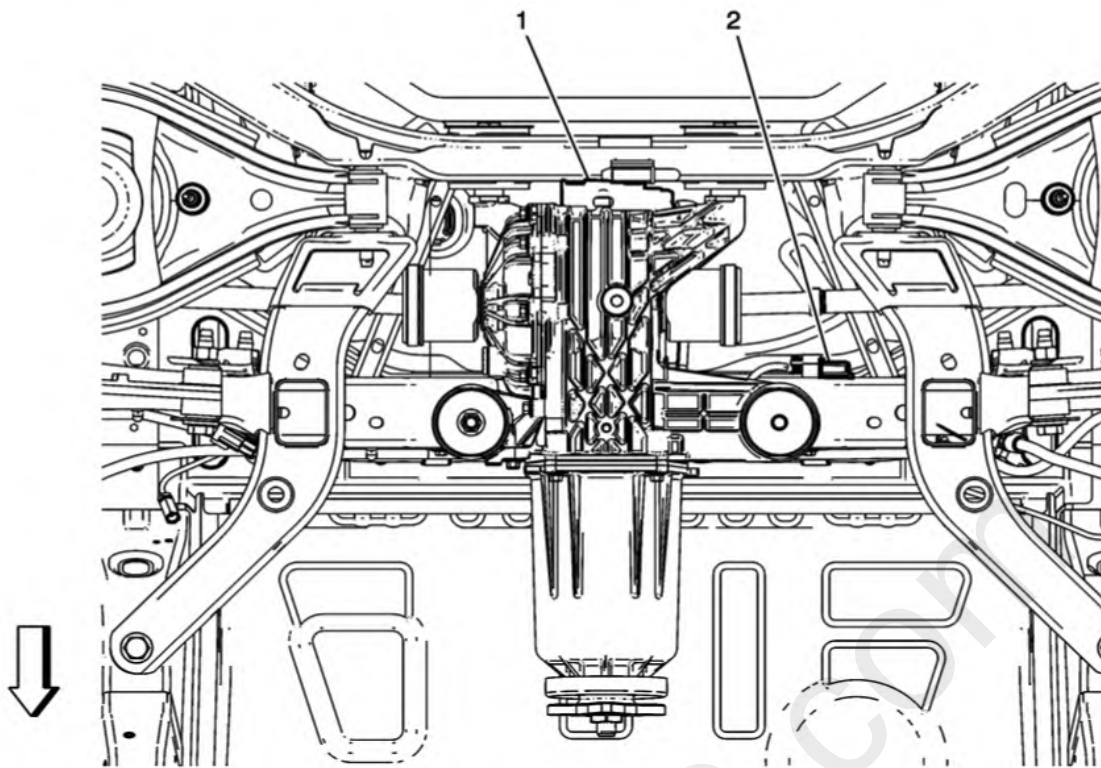
Courtesy of GENERAL MOTORS CORP.



- (1) X80R Accessory Power Receptacle - Rear Compartment
- (2) K41 Parking Assist Module (UD7)
- (3) M17 Liftgate Motor Assembly (TB5)
- (4) K27 Fuel Pump Control Module

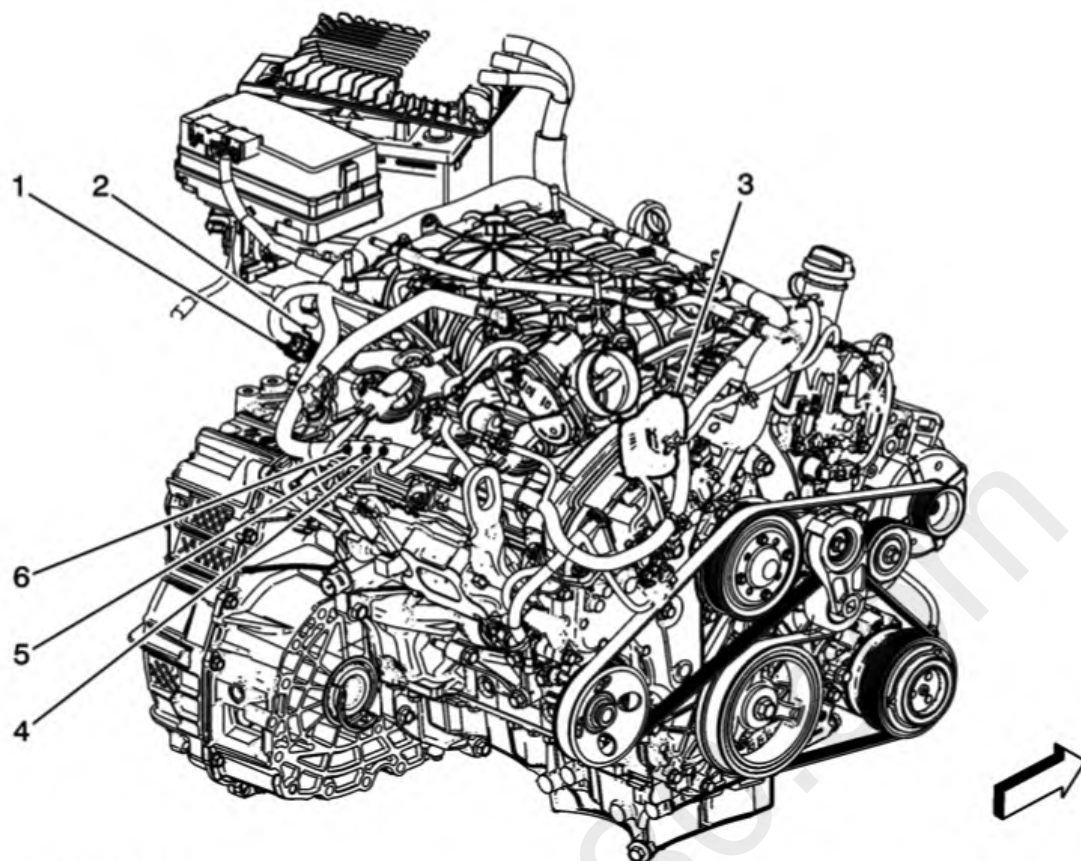
Fig. 28: Vehicle Left Rear

Courtesy of GENERAL MOTORS CORP.



- (1) K47 Rear Differential Clutch Control Module (F46)
- (2) R6 Data Link Resistor

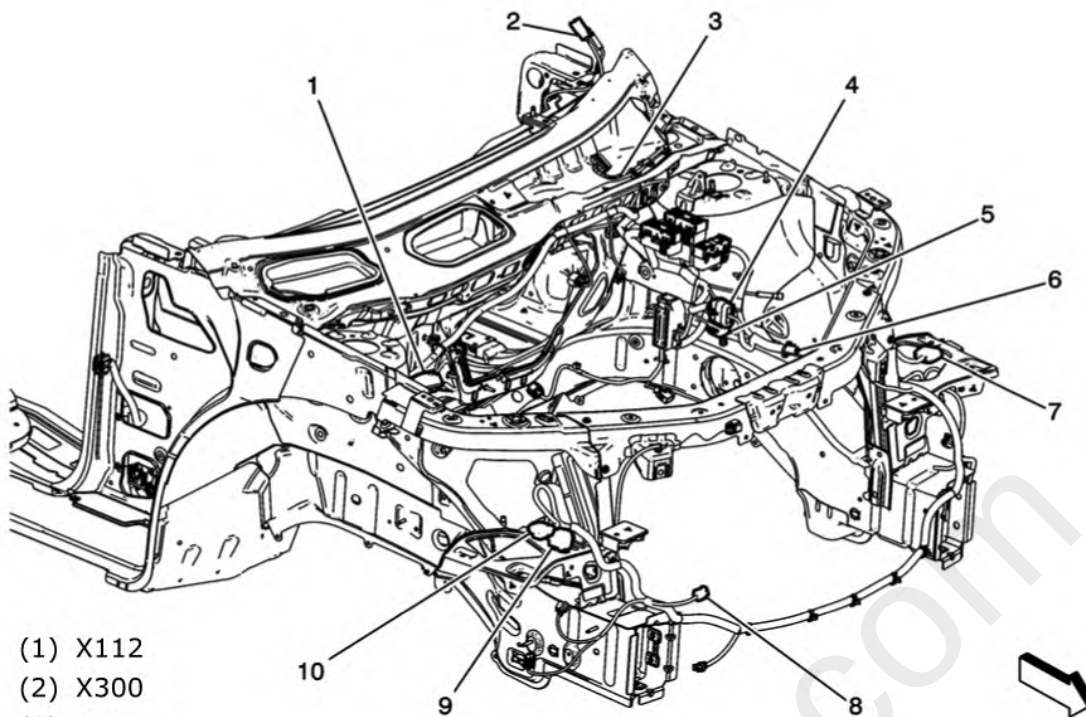
Fig. 29: Rear Undercarriage
Courtesy of GENERAL MOTORS CORP.



- (1) X108
- (2) X109
- (3) X112
- (4) J104
- (5) J102
- (6) J106

Fig. 30: Engine (3.0L)

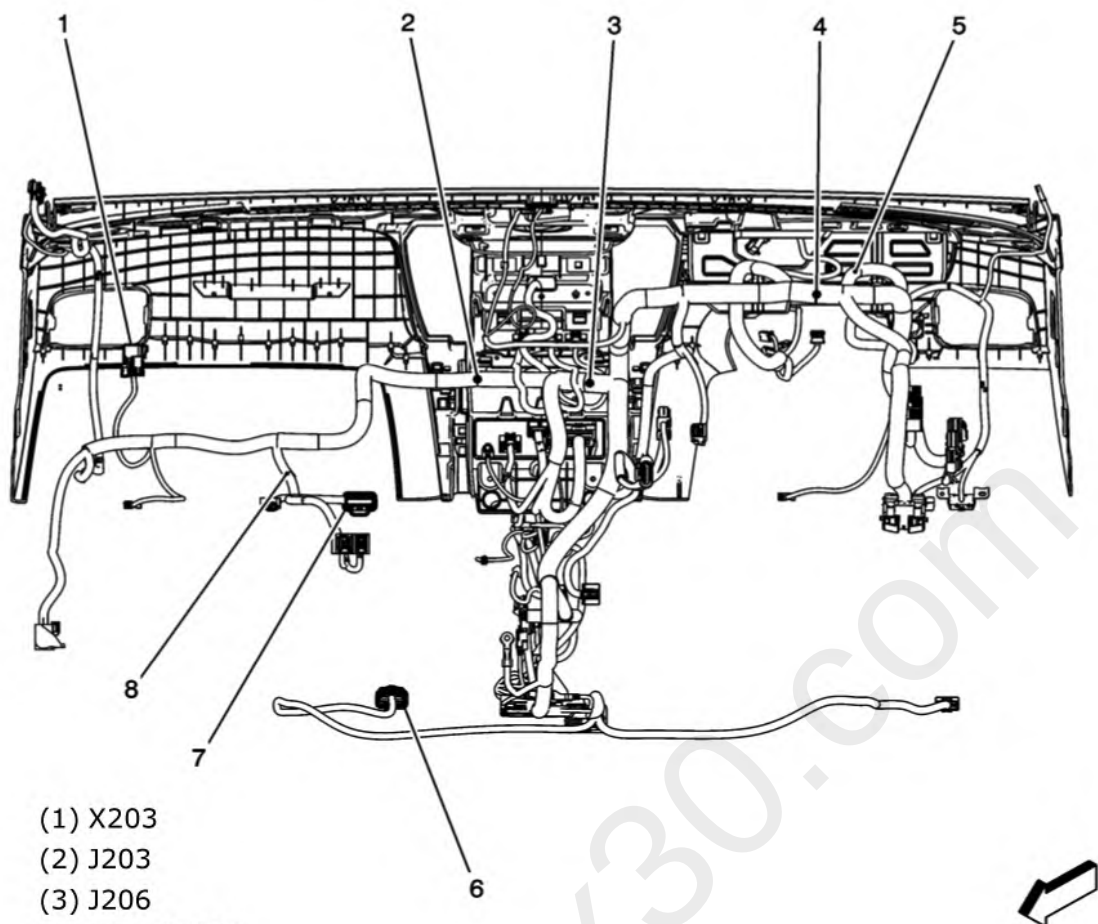
Courtesy of GENERAL MOTORS CORP.



- (1) X112
- (2) X300
- (3) J117
- (4) X115
- (5) X121
- (6) J111
- (7) X110
- (8) X116 (LF1)
- (9) X116 (LAF)
- (10) X120

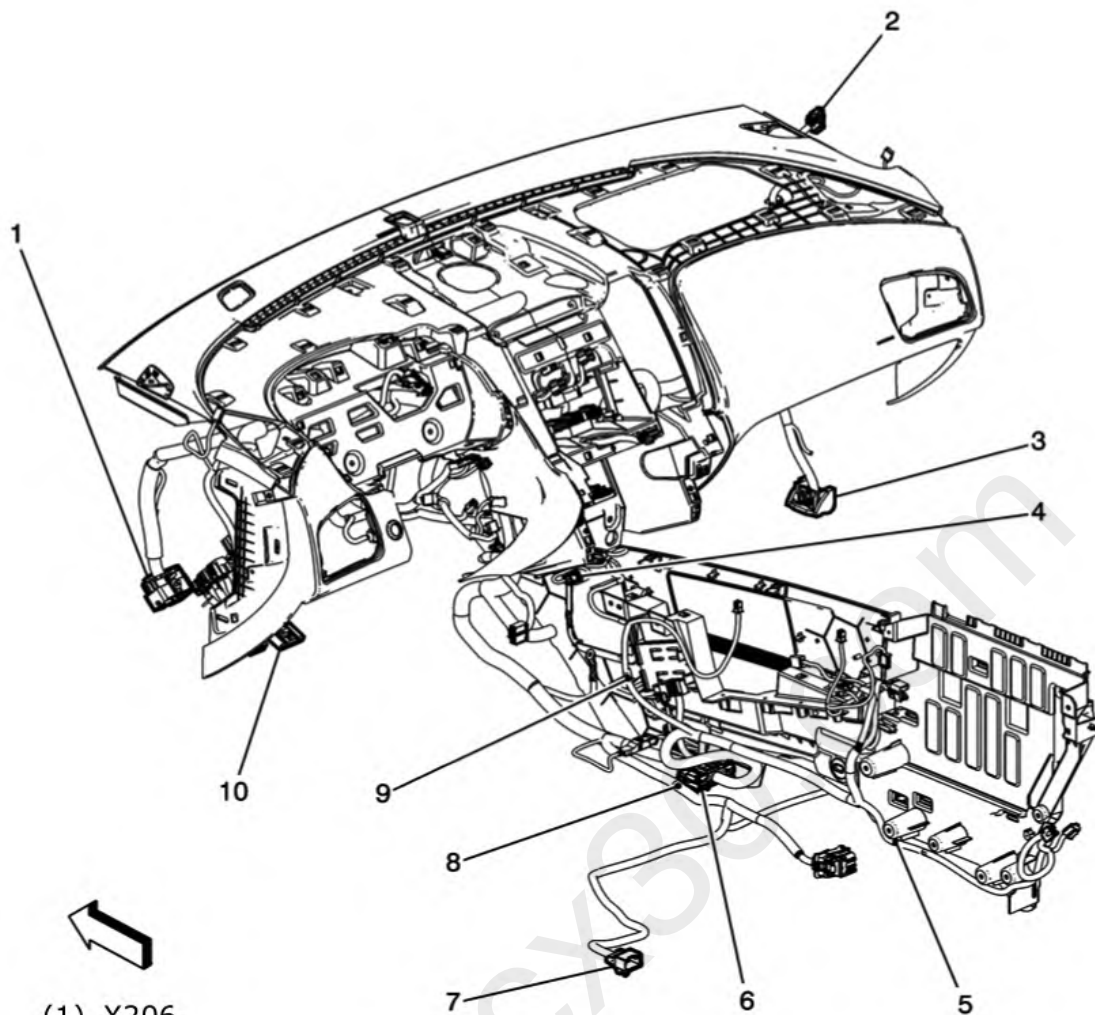
Fig. 31: Front Body Frame

Courtesy of GENERAL MOTORS CORP.



- (1) X203
- (2) J203
- (3) J206
- (4) J201 (TSQ)
- (5) J205
- (6) X309 (UWG)
- (7) X213
- (8) J202 (C68)

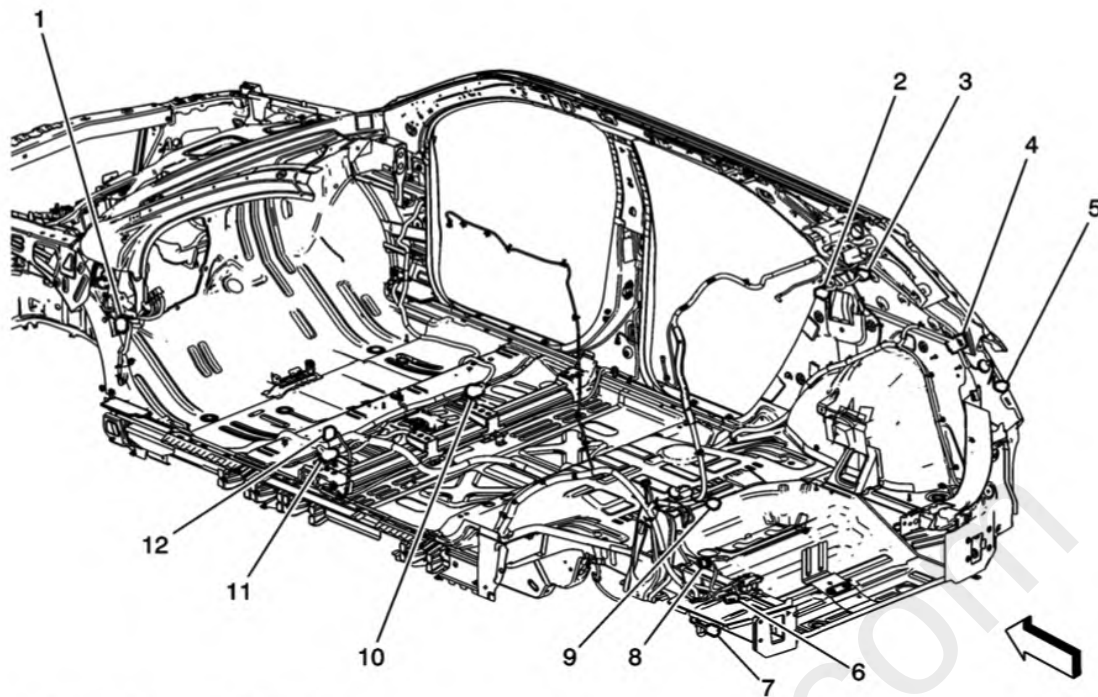
Fig. 32: Dashboard
 Courtesy of GENERAL MOTORS CORP.



- (1) X206
- (2) X209
- (3) X210
- (4) X214
- (5) J317
- (6) X211
- (7) X307 (UWG)
- (8) J204 (UWG)
- (9) J318
- (10) JX201

Fig. 33: Dash & Console

Courtesy of GENERAL MOTORS CORP.



- | | |
|----------|-----------|
| (1) X500 | (7) X406 |
| (2) X900 | (8) X405 |
| (3) X901 | (9) X407 |
| (4) X401 | (10) X310 |
| (5) X408 | (11) X308 |
| (6) X444 | (12) X700 |

Fig. 34: Body Frame

Courtesy of GENERAL MOTORS CORP.

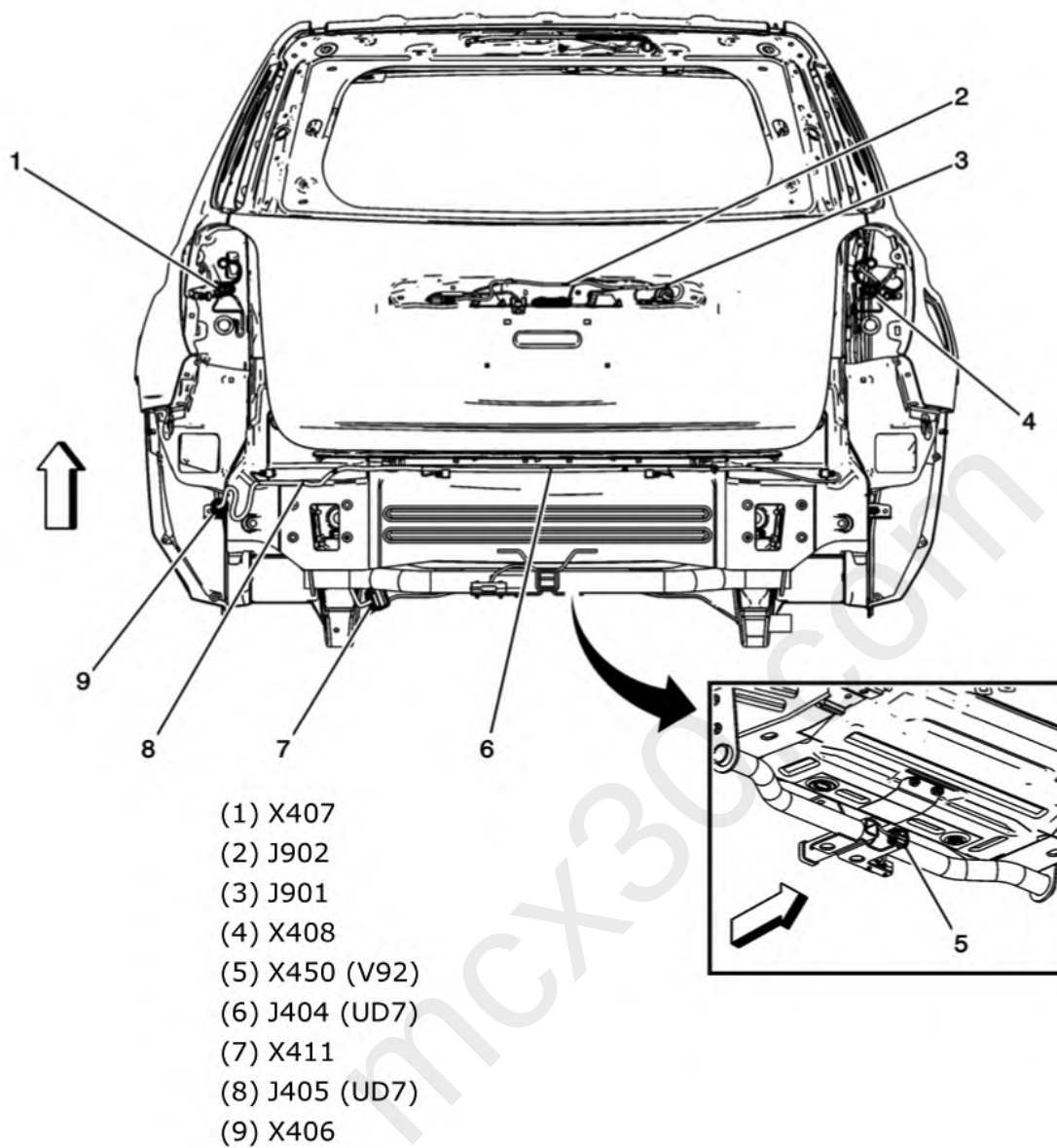
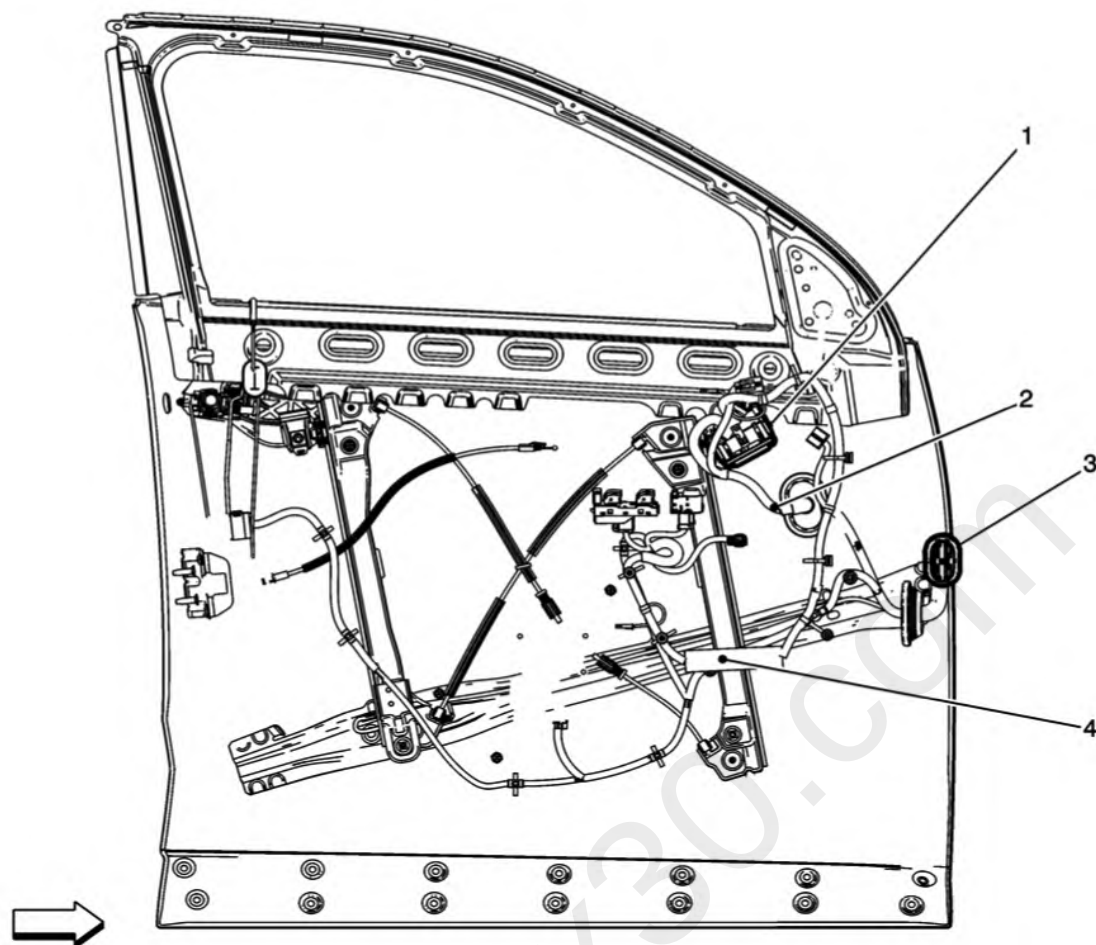
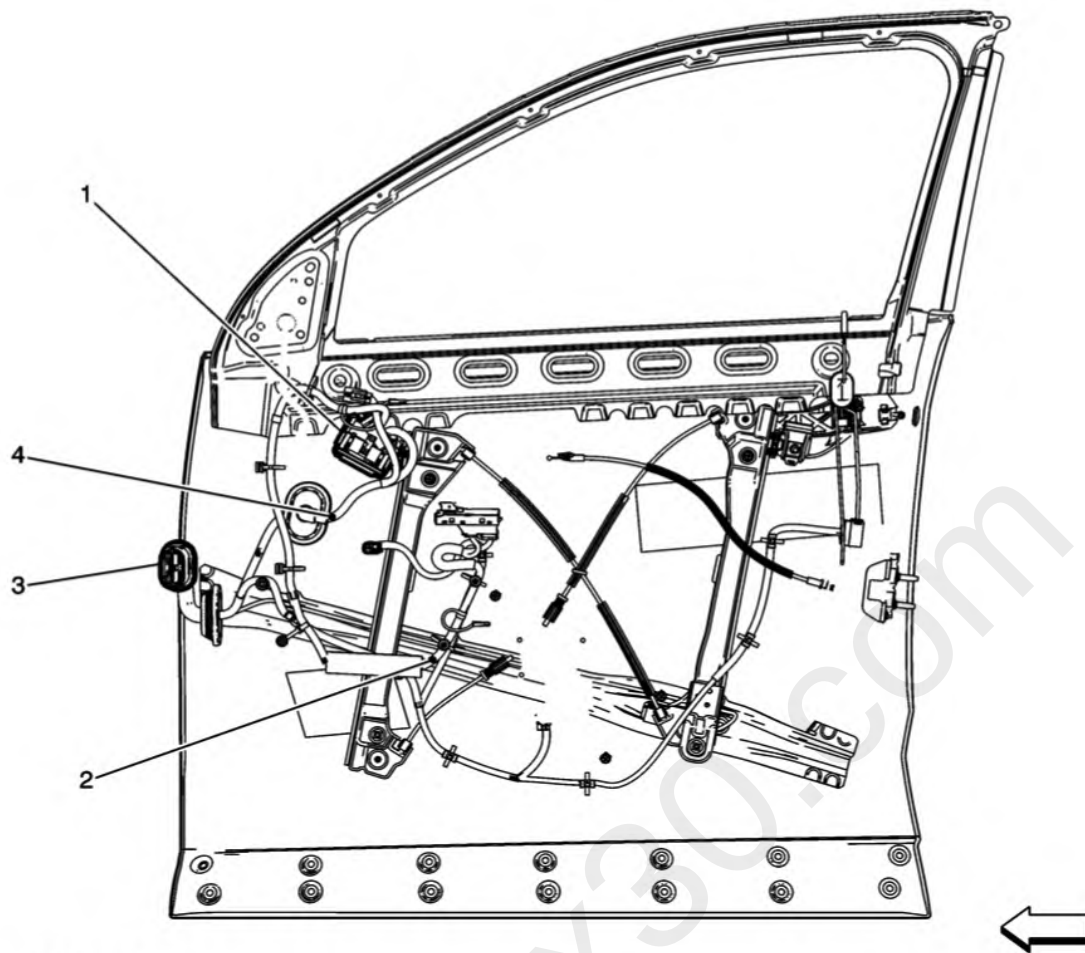


Fig. 35: Center Rear Bumper
 Courtesy of GENERAL MOTORS CORP.



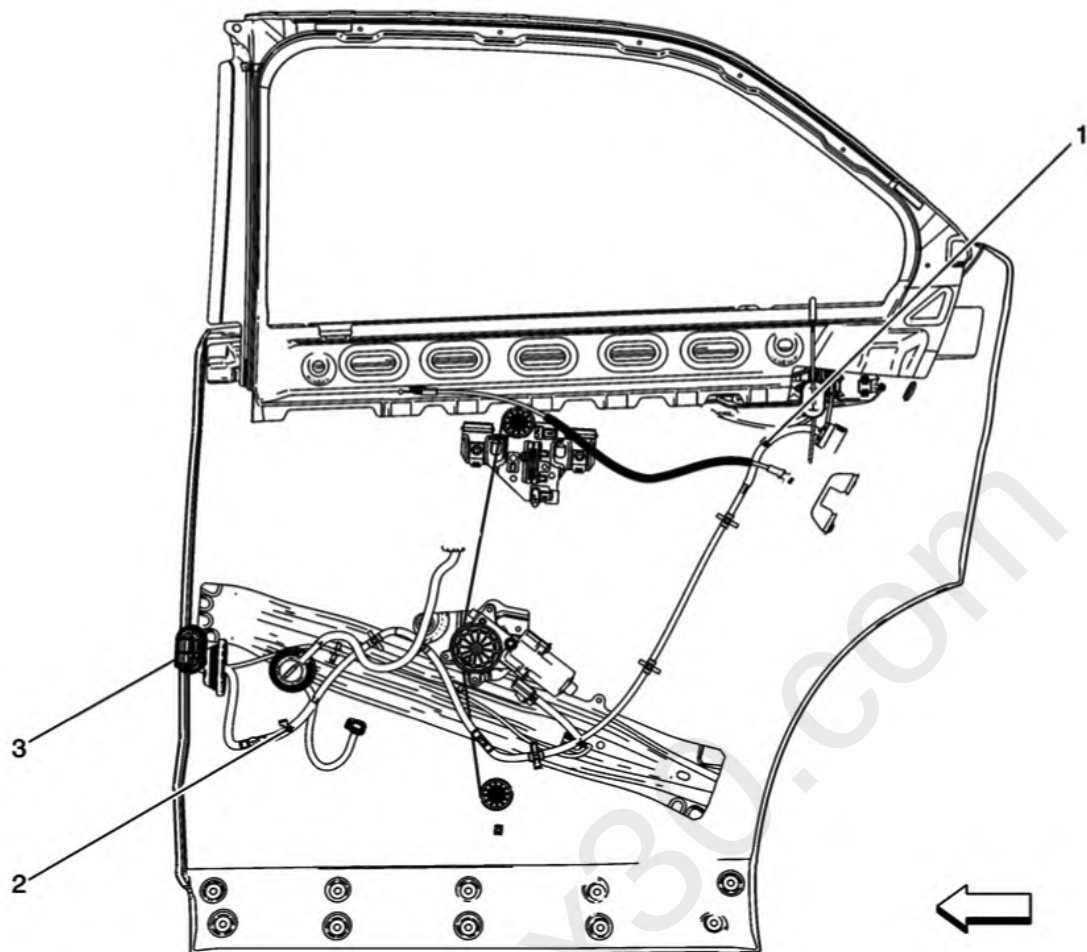
- (1) X505
- (2) J502
- (3) X500
- (4) J501

Fig. 36: Driver Door
Courtesy of GENERAL MOTORS CORP.



- (1) X605
- (2) J602
- (3) X600
- (4) J601

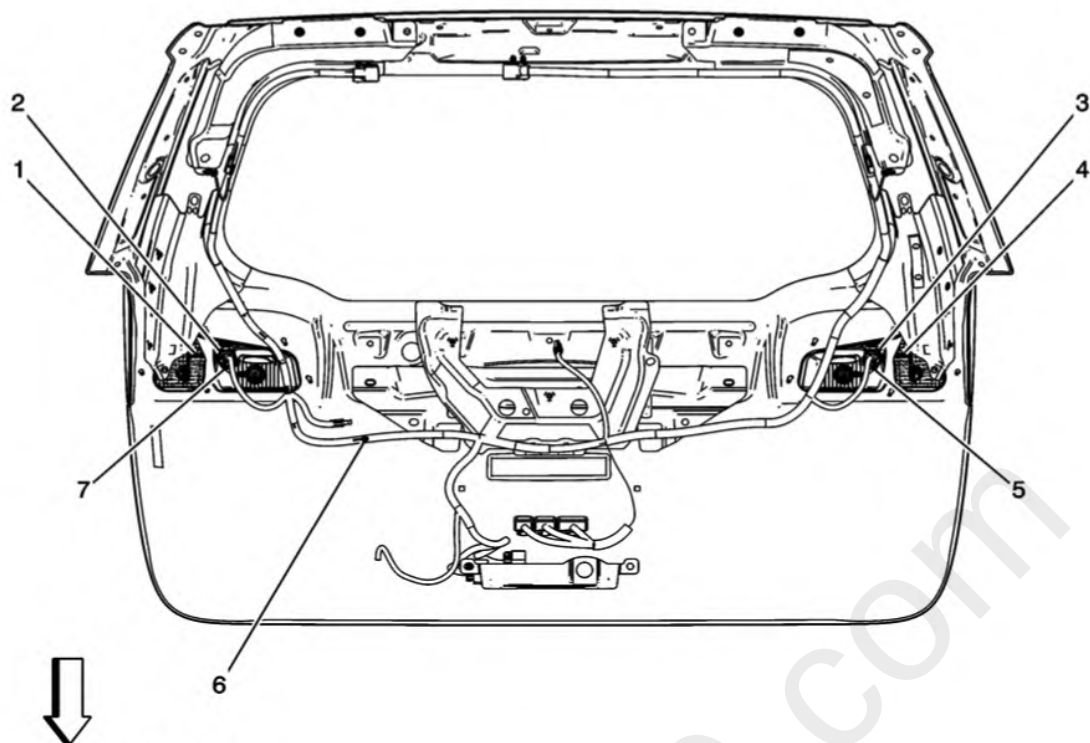
Fig. 37: Passenger Door
Courtesy of GENERAL MOTORS CORP.



- (1) J802
- (2) J801
- (3) X800

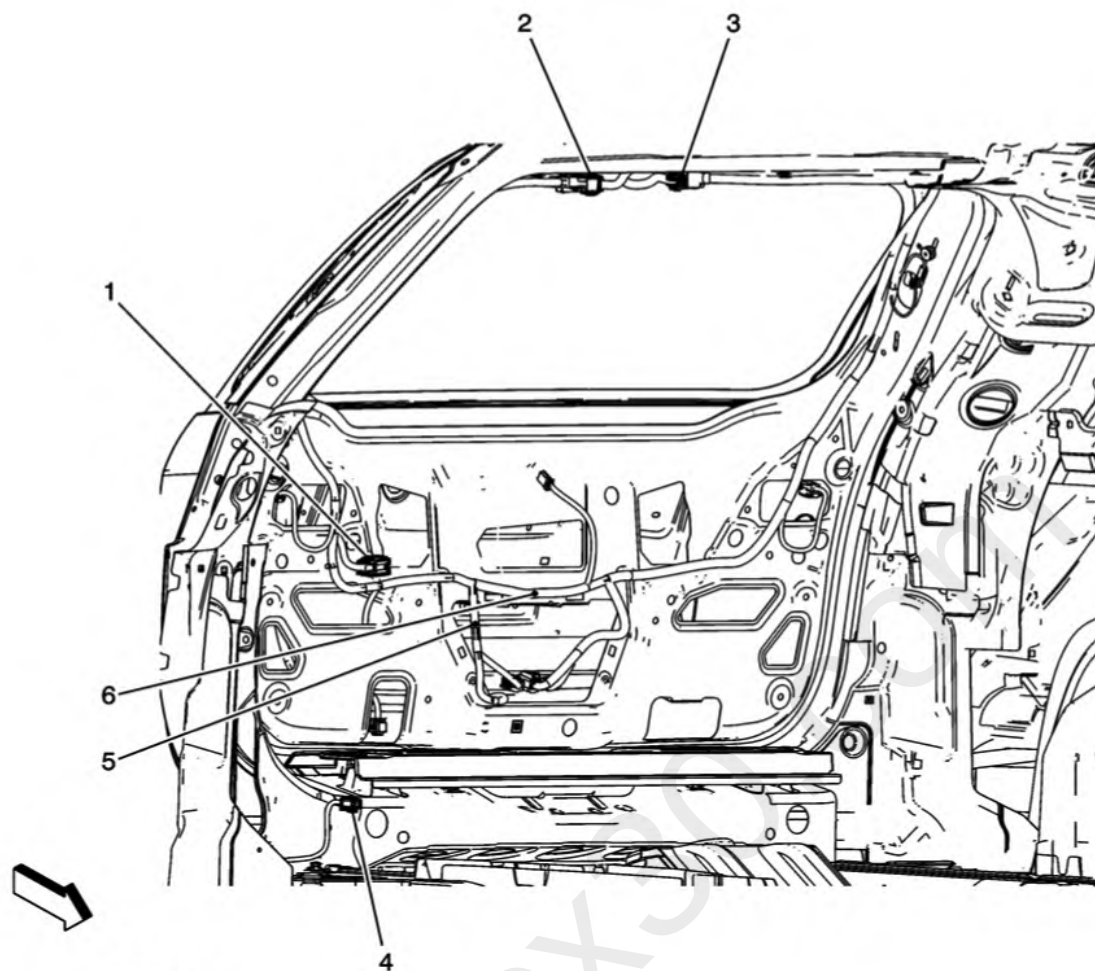
Fig. 38: Right Rear Door

Courtesy of GENERAL MOTORS CORP.



- (1) J407
- (2) J907
- (3) J906
- (4) J406
- (5) X902
- (6) J903
- (7) X903

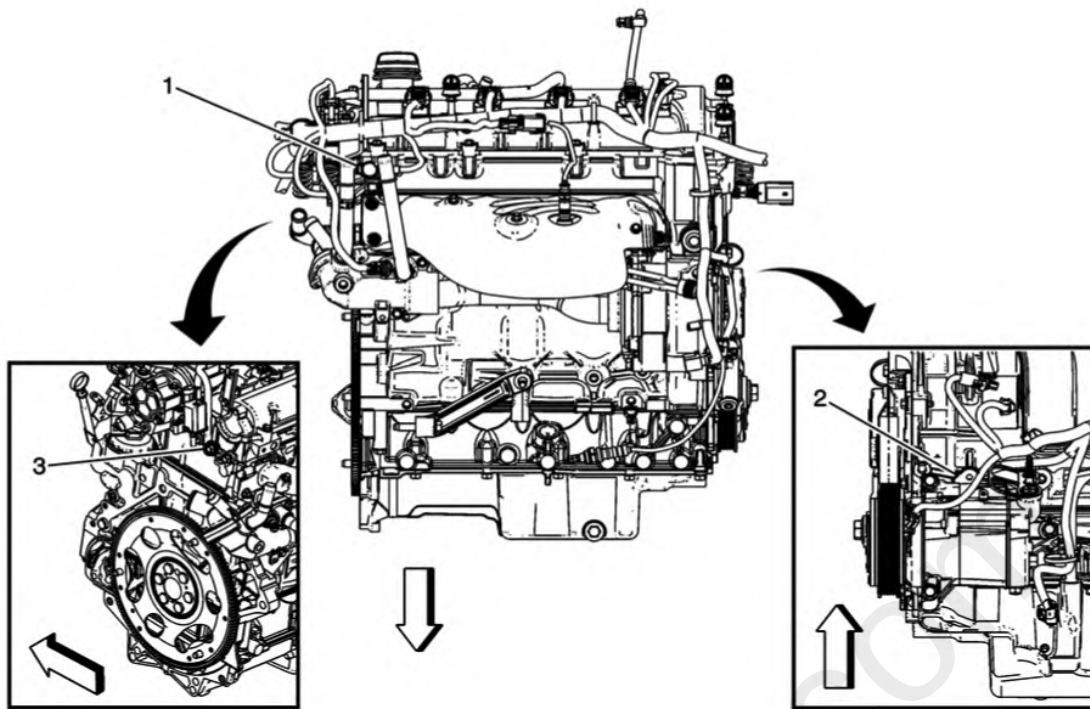
Fig. 39: Liftgate
Courtesy of GENERAL MOTORS CORP.



- (1) X904
- (2) X900
- (3) X901
- (4) X444 (V92)
- (5) J905
- (6) J904

Fig. 40: Rear Body Frame

Courtesy of GENERAL MOTORS CORP.



- (1) G109
- (2) G112
- (3) G105

Fig. 41: Engine (2.4L)

Courtesy of GENERAL MOTORS CORP.

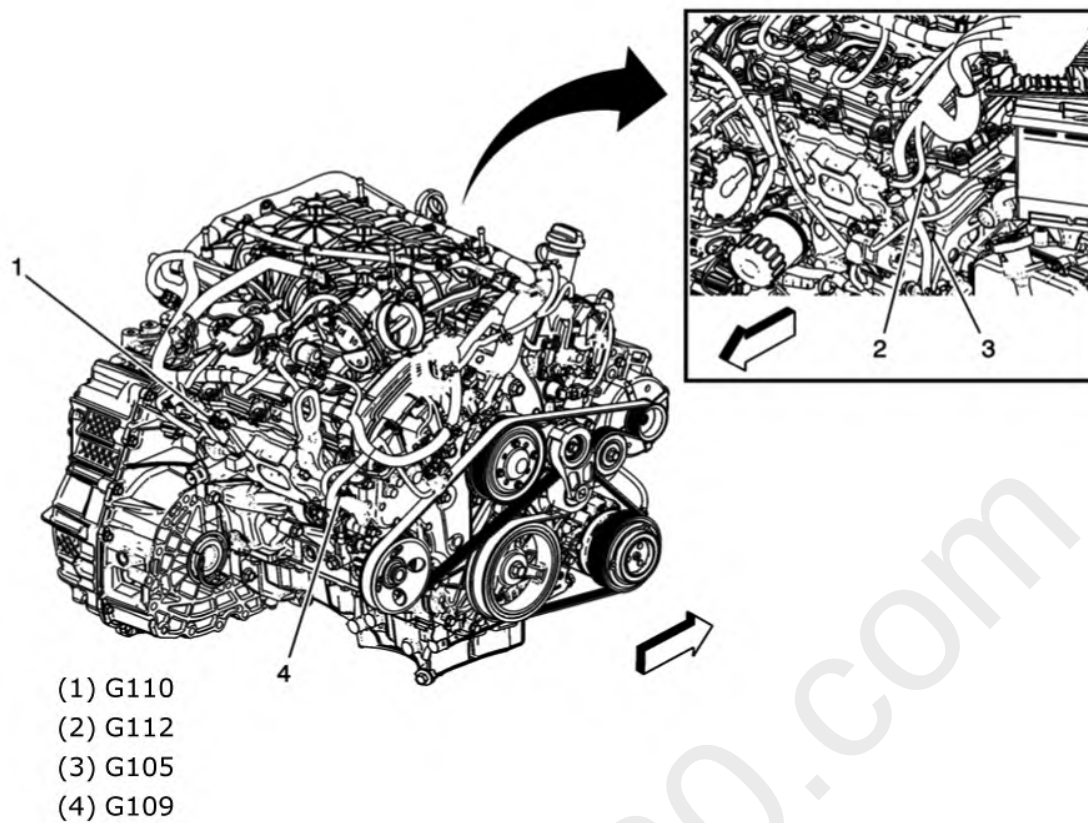
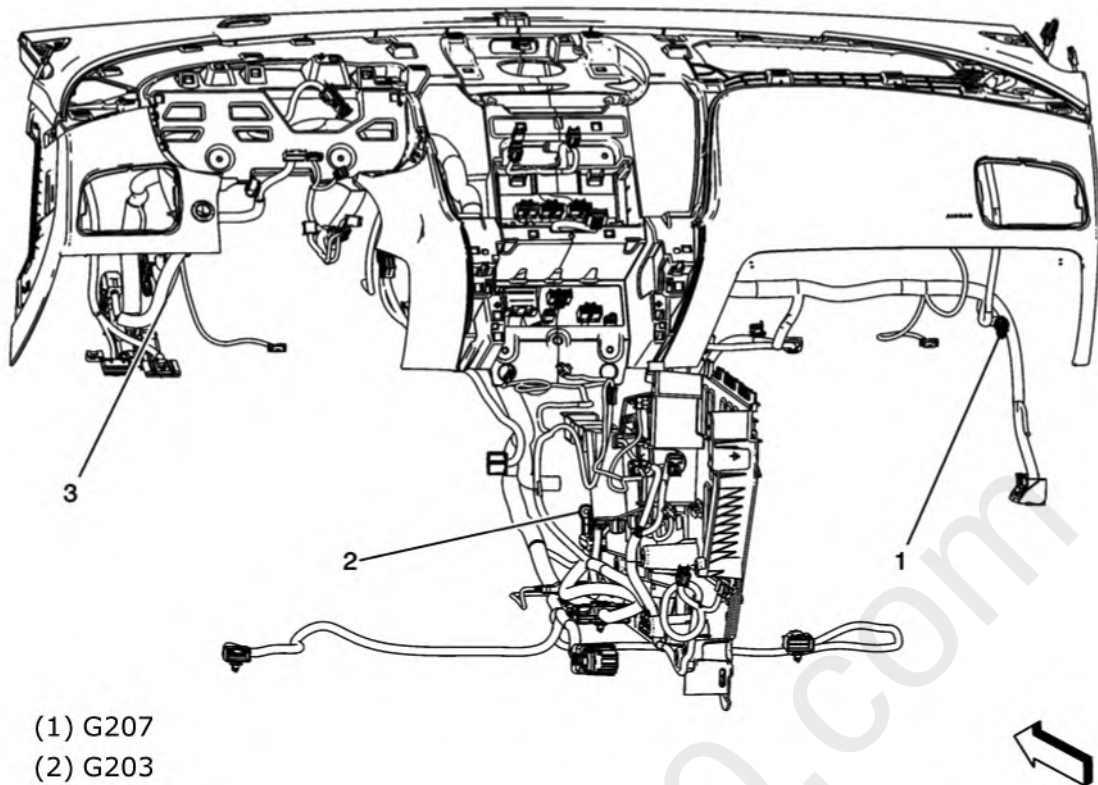


Fig. 42: Engine (3.0L)

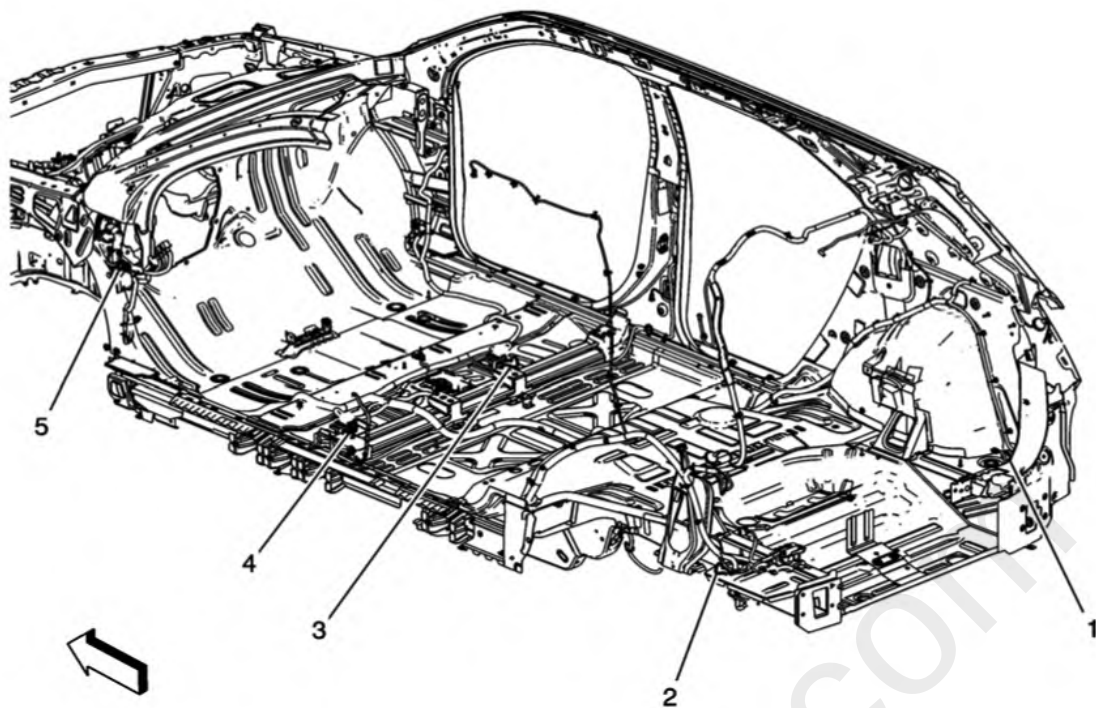
Courtesy of GENERAL MOTORS CORP.



- (1) G207
- (2) G203
- (3) G210

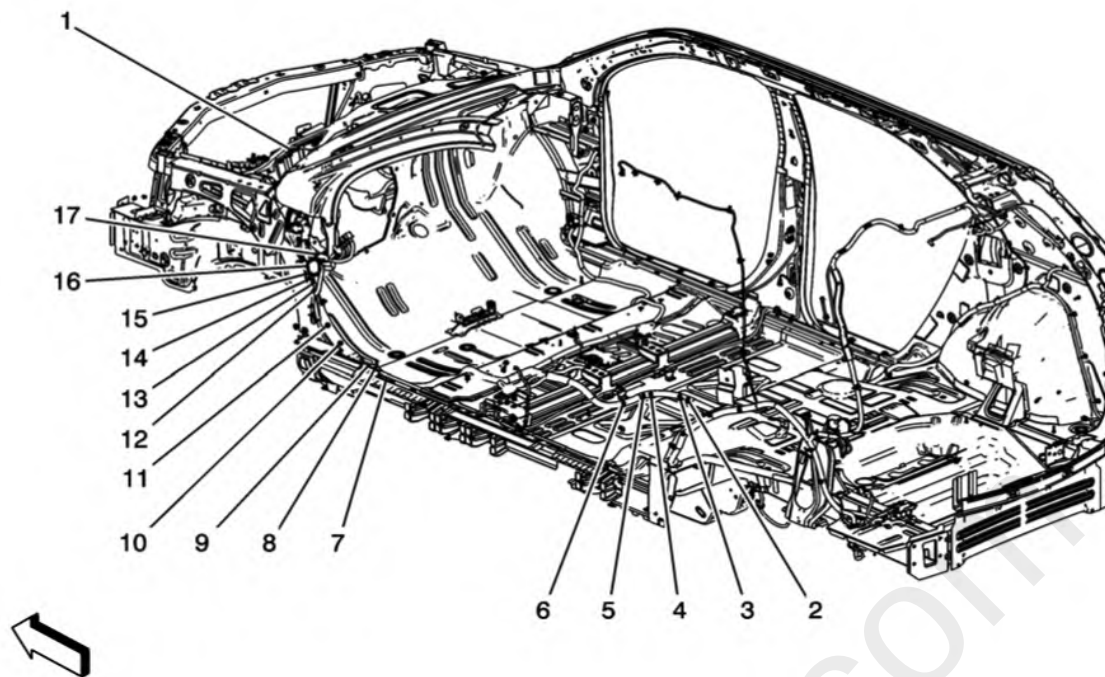
Fig. 43: Dash

Courtesy of GENERAL MOTORS CORP.



- (1) G403
- (2) G401
- (3) G311
- (4) G301
- (5) G205

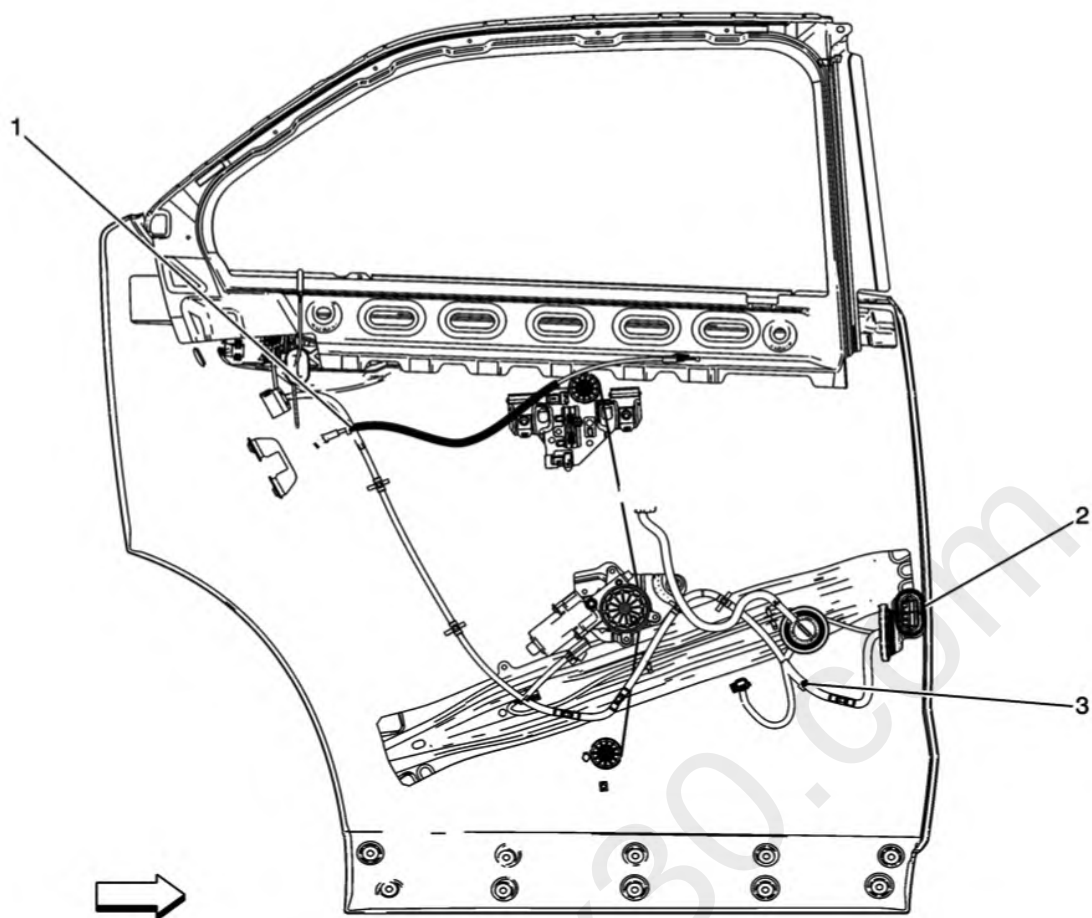
Fig. 44: Body Frame
Courtesy of GENERAL MOTORS CORP.



- | | |
|-----------------------|------------------------|
| (1) J117 | (9) J311 |
| (2) J310 | (10) J316 (TSQ) |
| (3) J303 | (11) J313 |
| (4) J309 | (12) J218 |
| (5) J302 | (13) J219 |
| (6) J308 | (14) J217 |
| (7) J307 | (15) J216 |
| (8) J315 (LTZ or SLT) | (16) JX202 |
| | (17) J215 (TSP or TSQ) |

Fig. 45: Body Frame

Courtesy of GENERAL MOTORS CORP.



- (1) J702
- (2) X700
- (3) J701

Fig. 46: Left Rear Door
Courtesy of GENERAL MOTORS CORP.

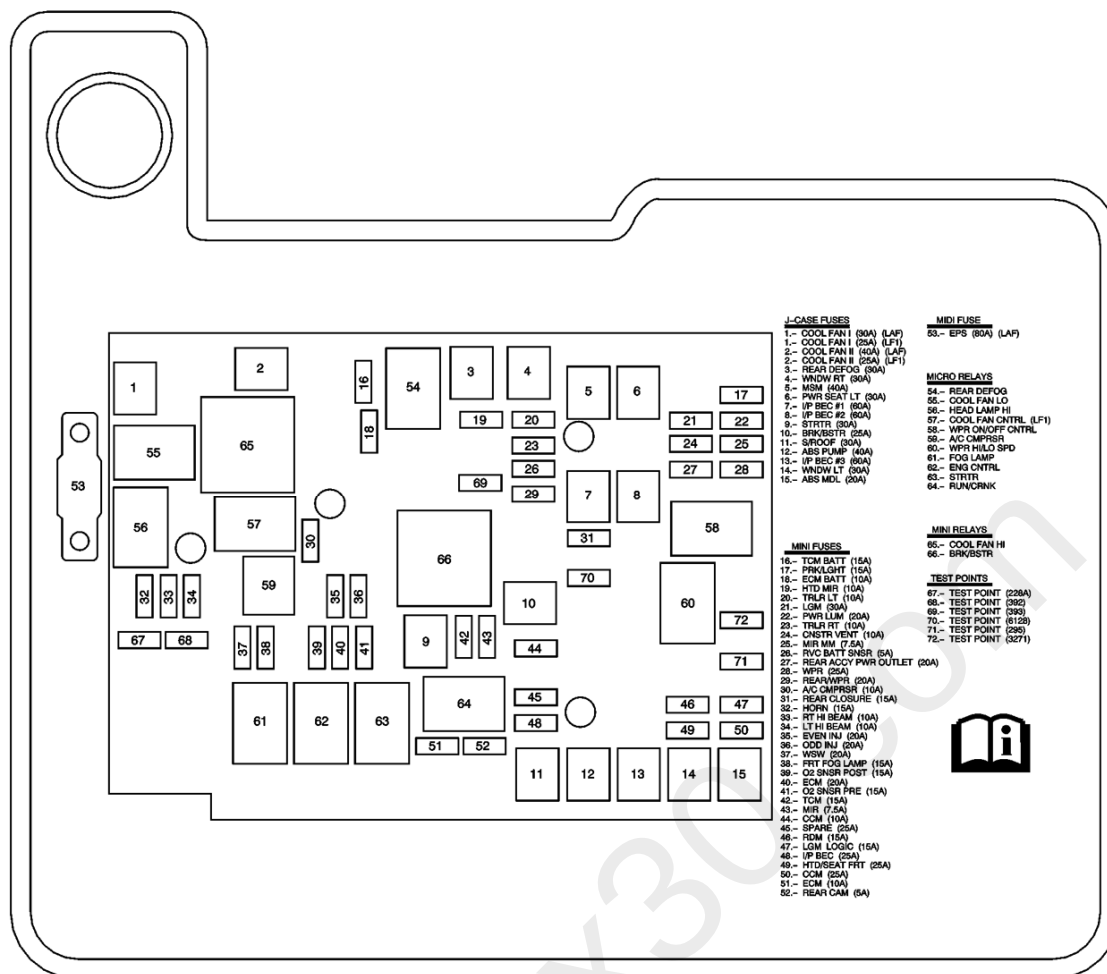


Fig. 47: Underhood Fuse Block
 Courtesy of GENERAL MOTORS CORP.

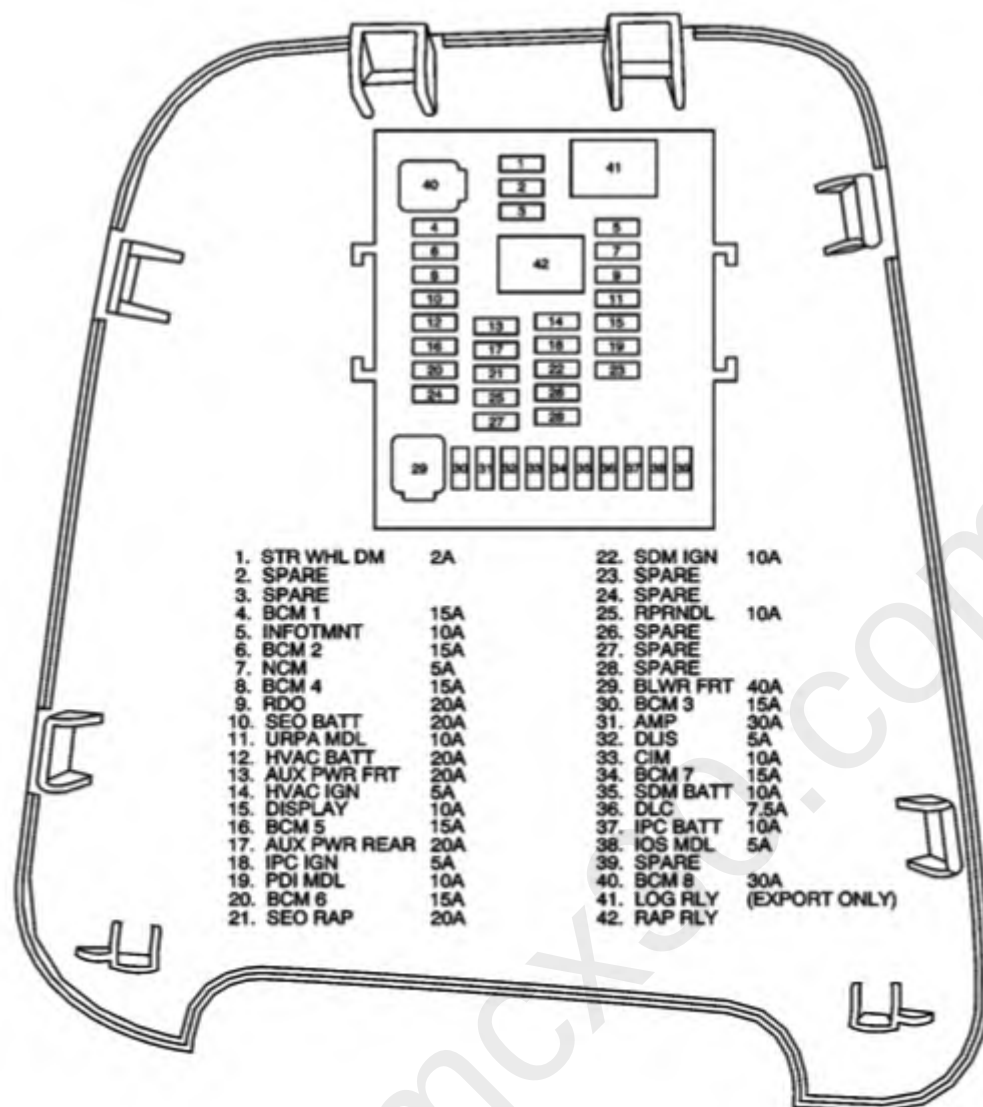


Fig. 48: Instrument Panel Fuse Block
 Courtesy of GENERAL MOTORS CORP.