

SCHEMATIC AND ROUTING DIAGRAMS

HARNESS ROUTING VIEWS

Engine Harness Routing - Top (LAF)

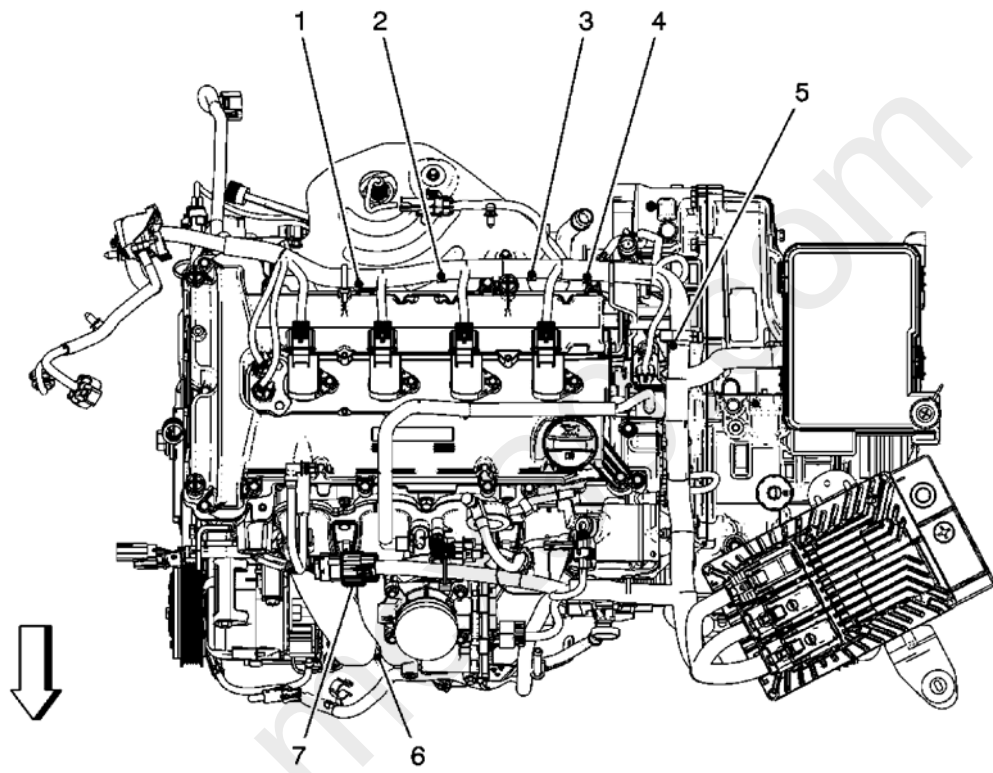


Fig. 1: Engine Harness Routing - Top (LAF)
Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
1	J106
2	J104
3	J101
4	J107
5	J108
6	J103
7	X136

Engine Harness Routing - Left Front (LF1)

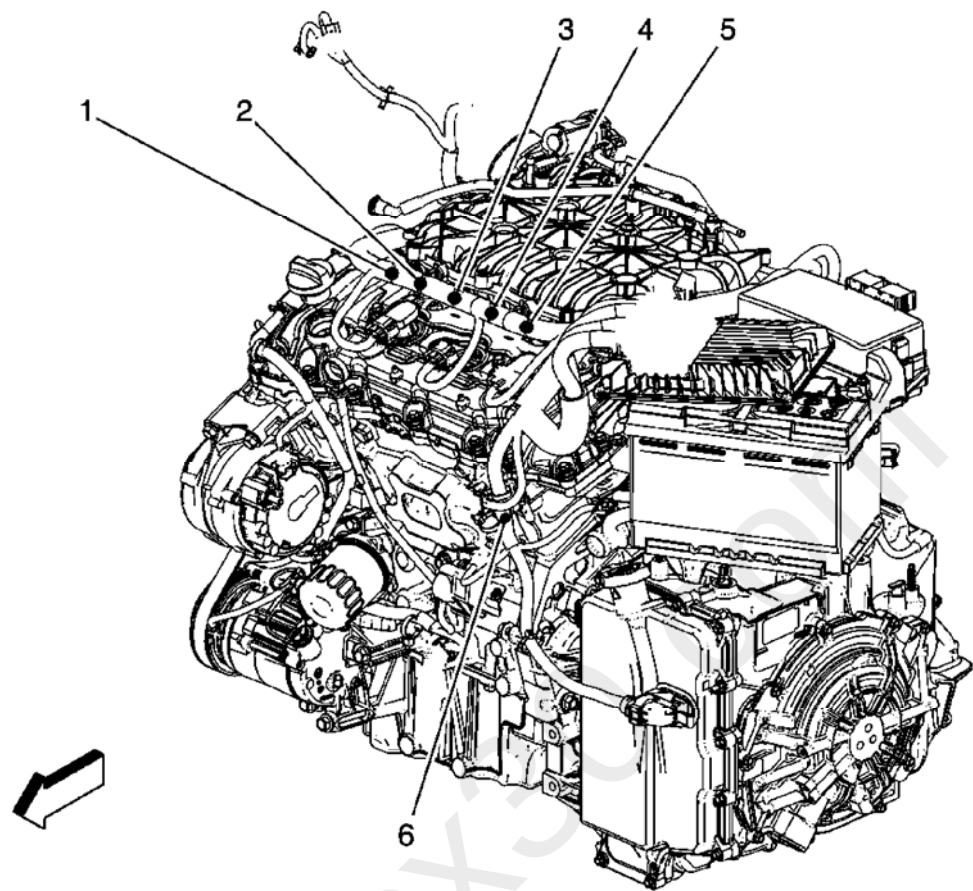


Fig. 2: Engine Harness Routing - Left Front (LF1)
Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
1	J101
2	J109
3	J108
4	J105
5	J107
6	J103

Engine Harness Routing - Right Rear (LF1)

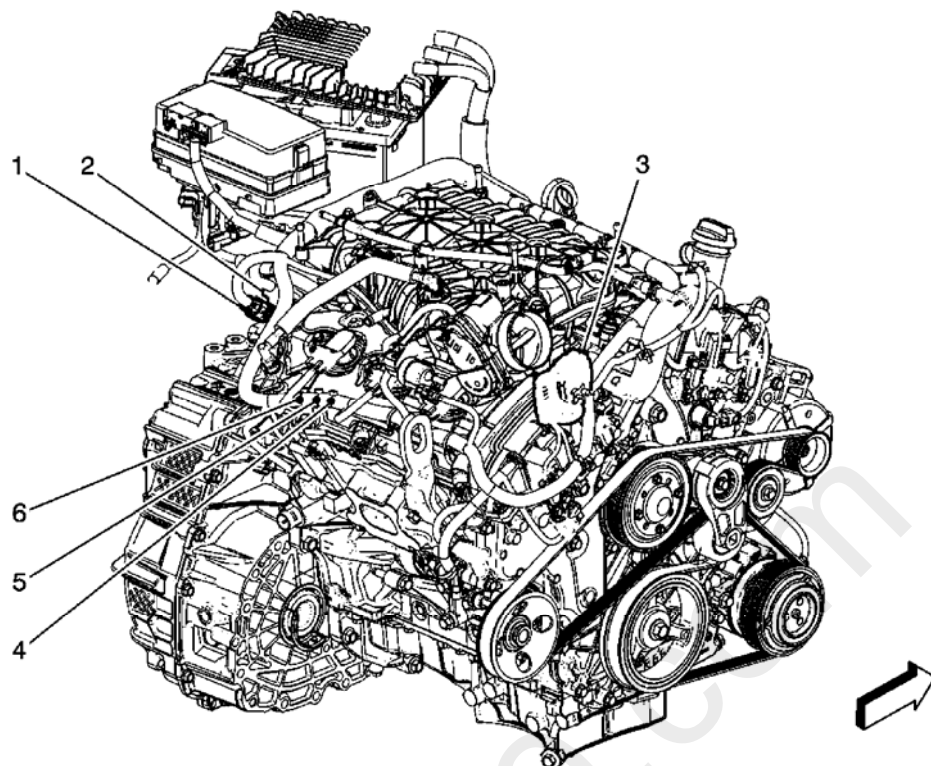


Fig. 3: Engine Harness Routing - Right Rear (LF1)
Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
1	X108
2	X109
3	X112
4	J104
5	J102
6	J106

Front of Vehicle Harness Routing

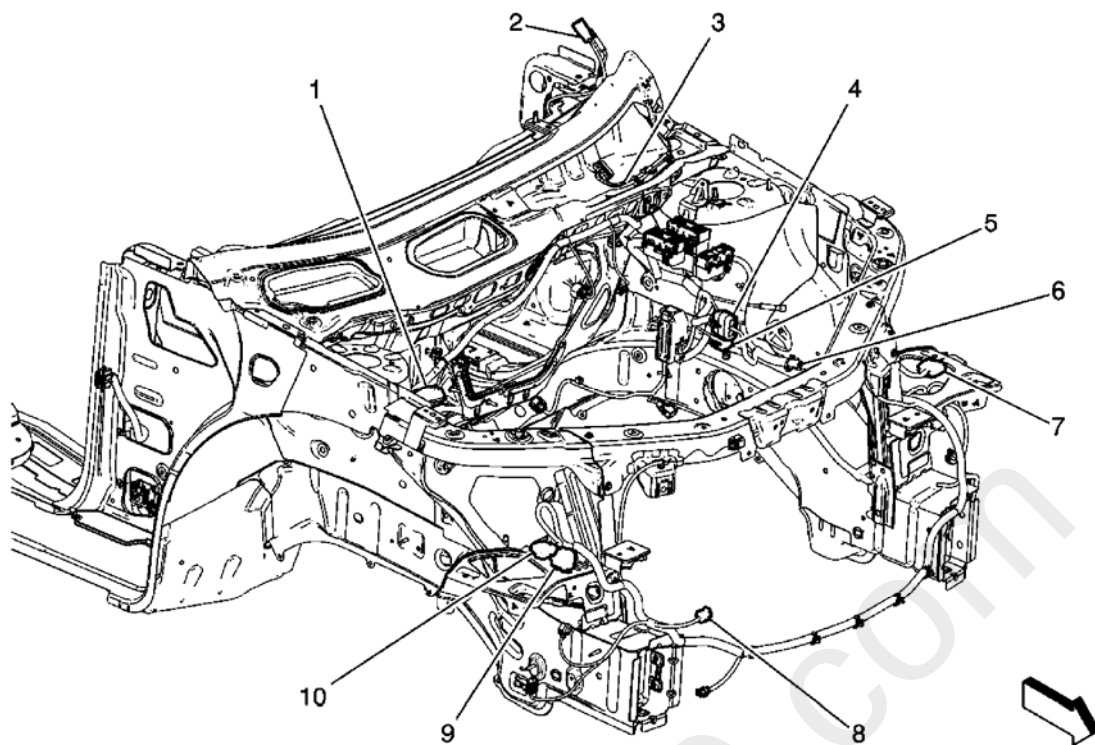


Fig. 4: Front of Vehicle Harness Routing
Courtesy of GENERAL MOTORS CORP.

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

Instrument Panel Harness Routing - Front

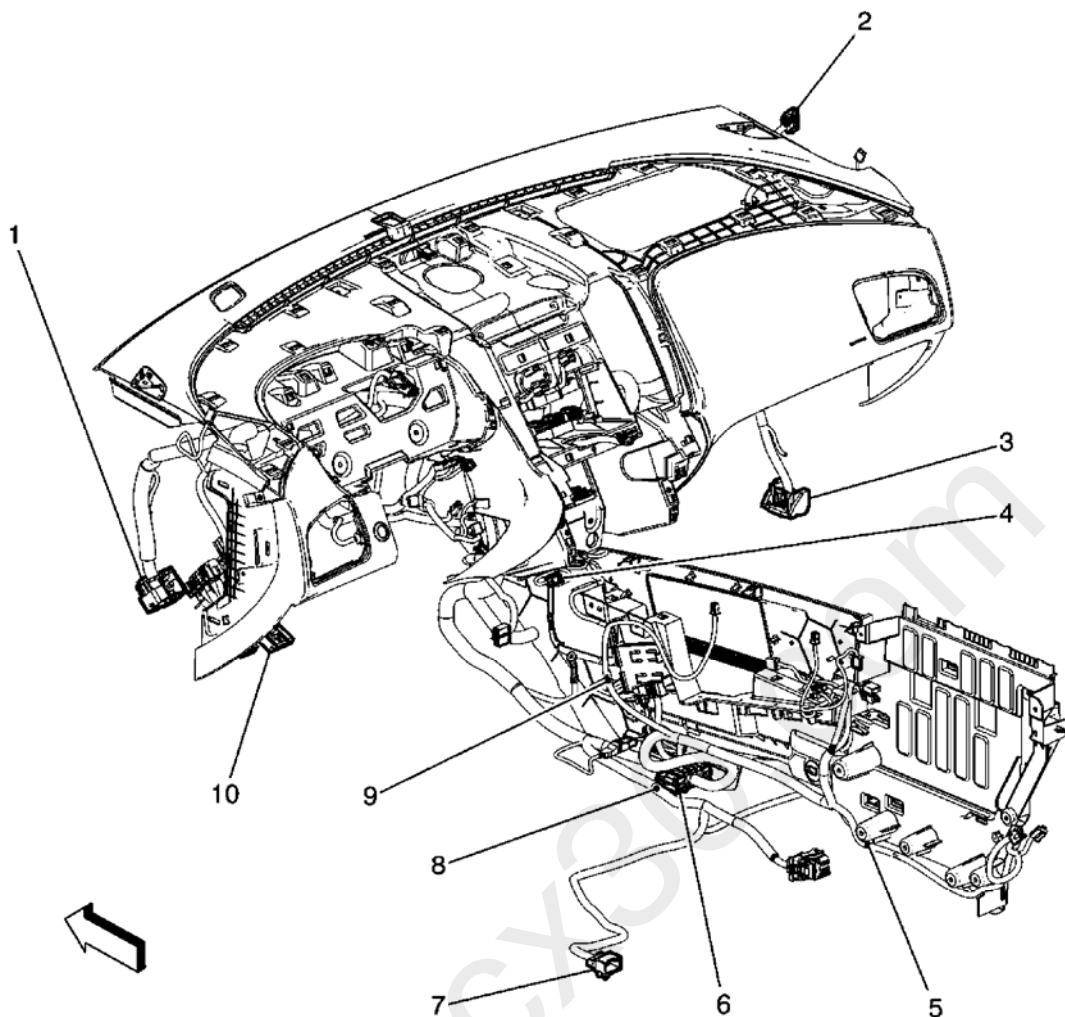


Fig. 5: Instrument Panel Harness Routing - Front
Courtesy of GENERAL MOTORS CORP.

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

Instrument Panel Harness Routing - Rear

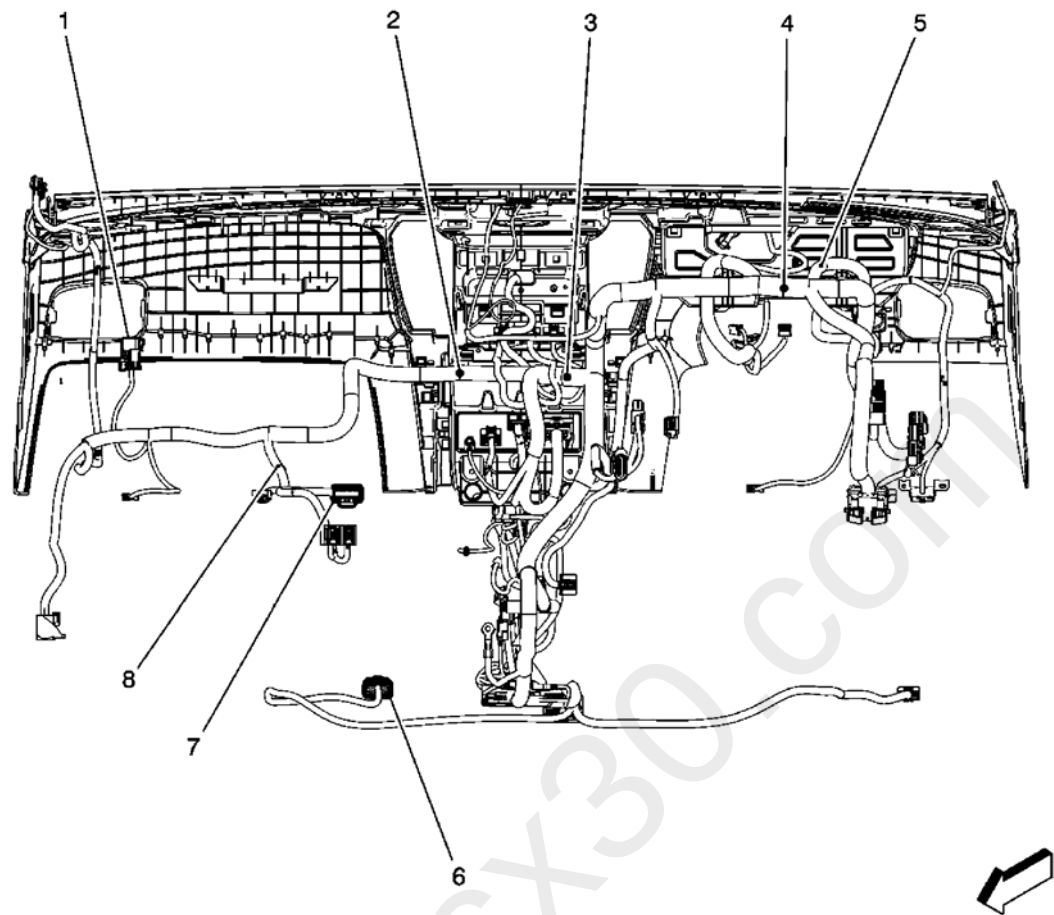


Fig. 6: Instrument Panel Harness Routing - Rear
Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
1	X203
2	J203
3	J206
4	J201 (LTZ or SLT)
5	J205
6	X309 (UWG)
7	X213
8	J202 (C68)

Passenger Compartment Harness Routing

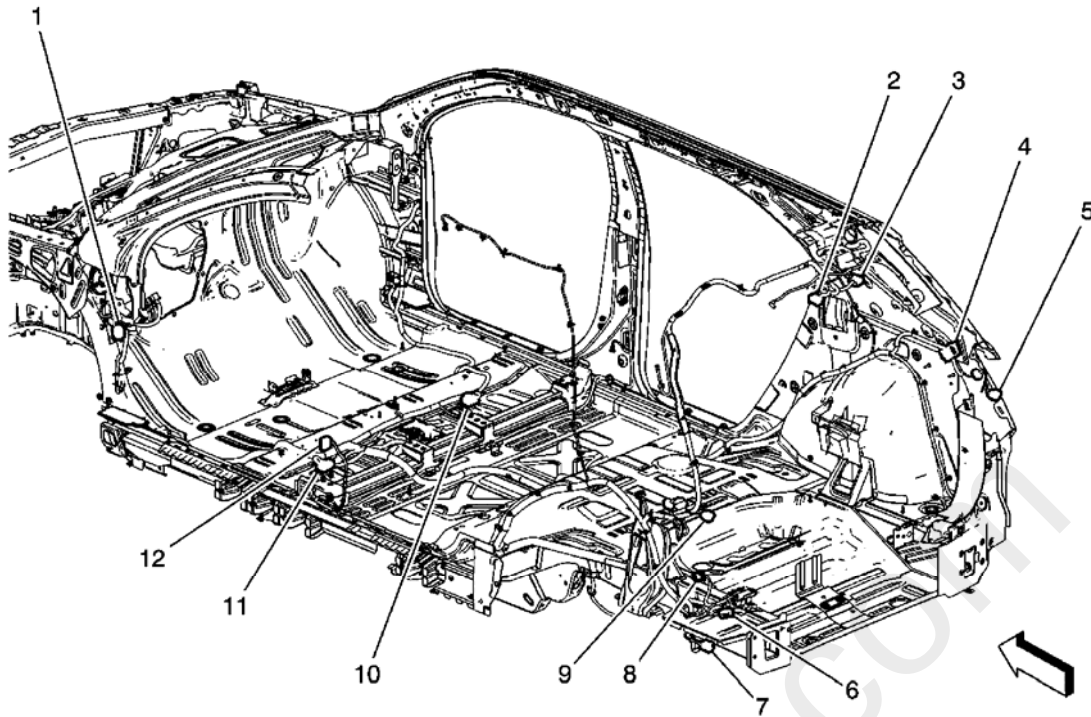


Fig. 7: Passenger Compartment Harness Routing
Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
1	X500
2	X900
3	X901
4	X401
5	X408
6	X444
7	X406
8	X405
9	X407
10	X310
11	X308
12	X700

Passenger Compartment Splice Routing

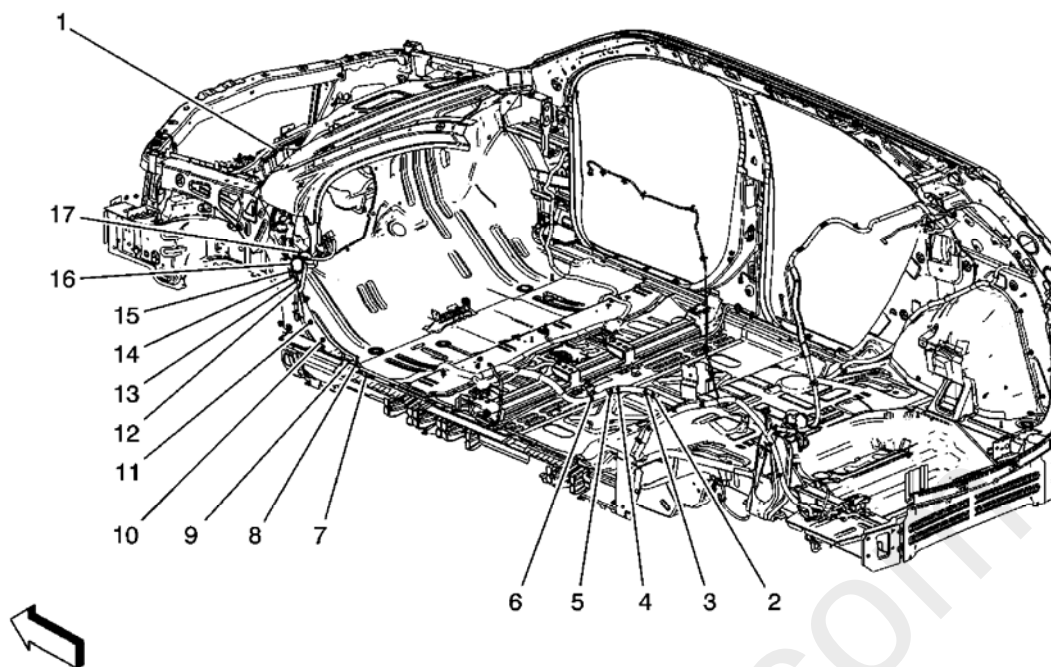


Fig. 8: Passenger Compartment Splice Routing
 Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
1	J117
2	J310
3	J303
4	J309
5	J302
6	J308
7	J307
8	J315 (LTZ or SLT)
9	J311
10	J316 (LTZ or SLT)
11	J313
12	J218
13	J219
14	J217
15	J216
16	JX202
17	J215 (LT or LTZ or SLE2 or SLT)

Driver Door Harness Routing

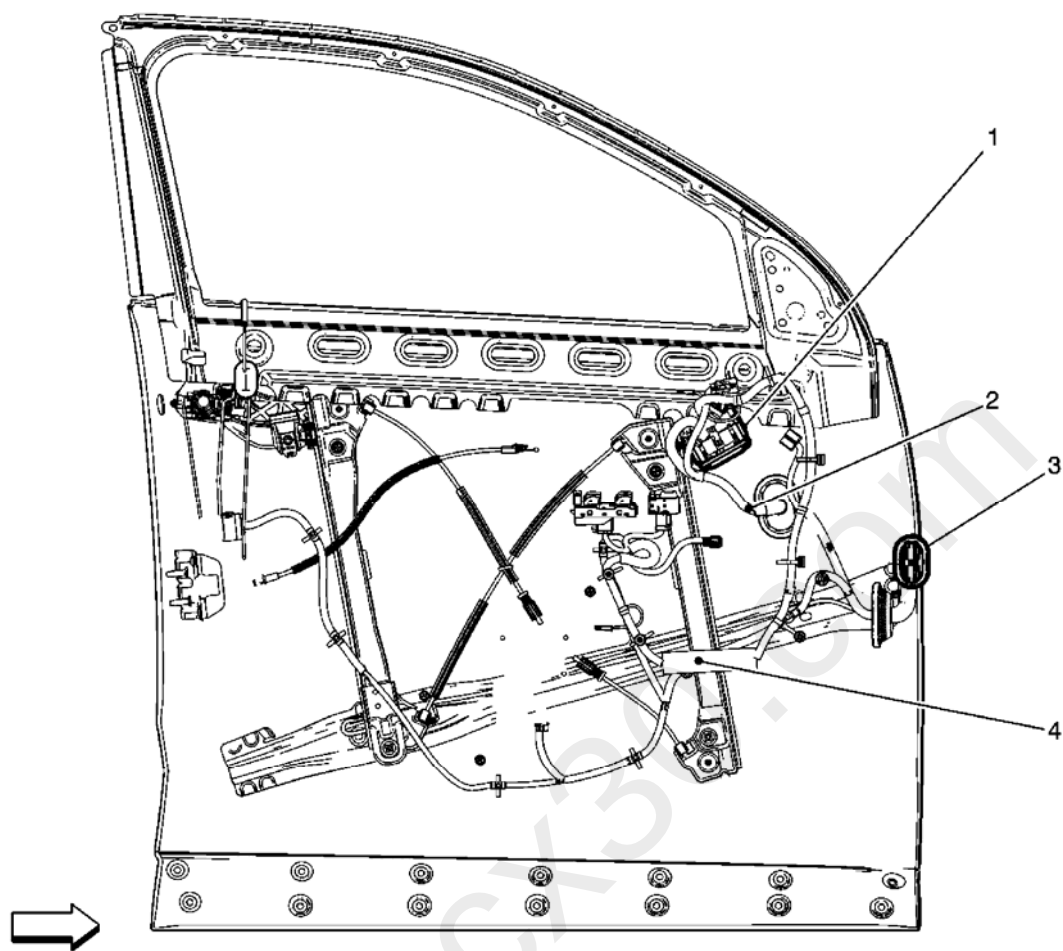


Fig. 9: Driver Door Harness Routing
Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
1	X505
2	J502
3	X500
4	J501

Passenger Door Harness Routing

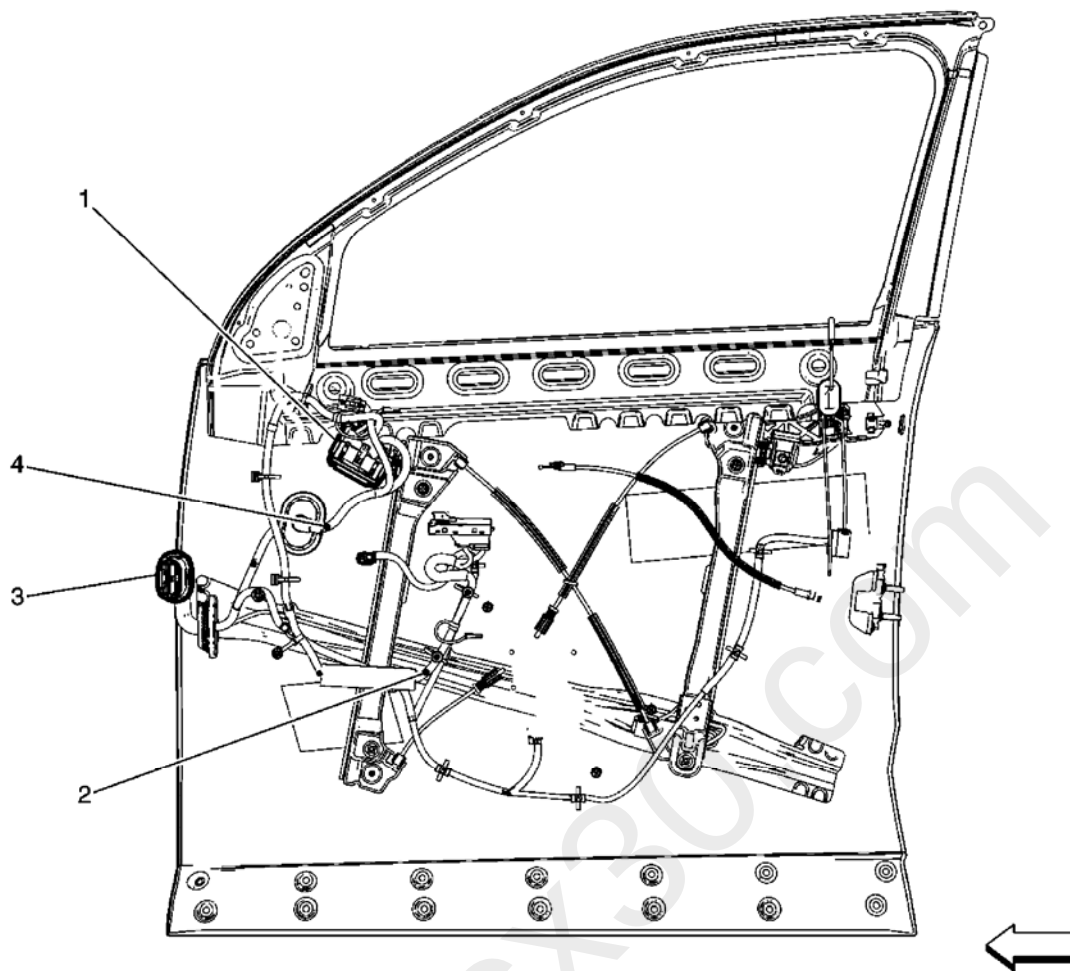


Fig. 10: Passenger Door Harness Routing
 Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
1	X605
2	J602
3	X600
4	J601

Left Rear Door Harness Routing

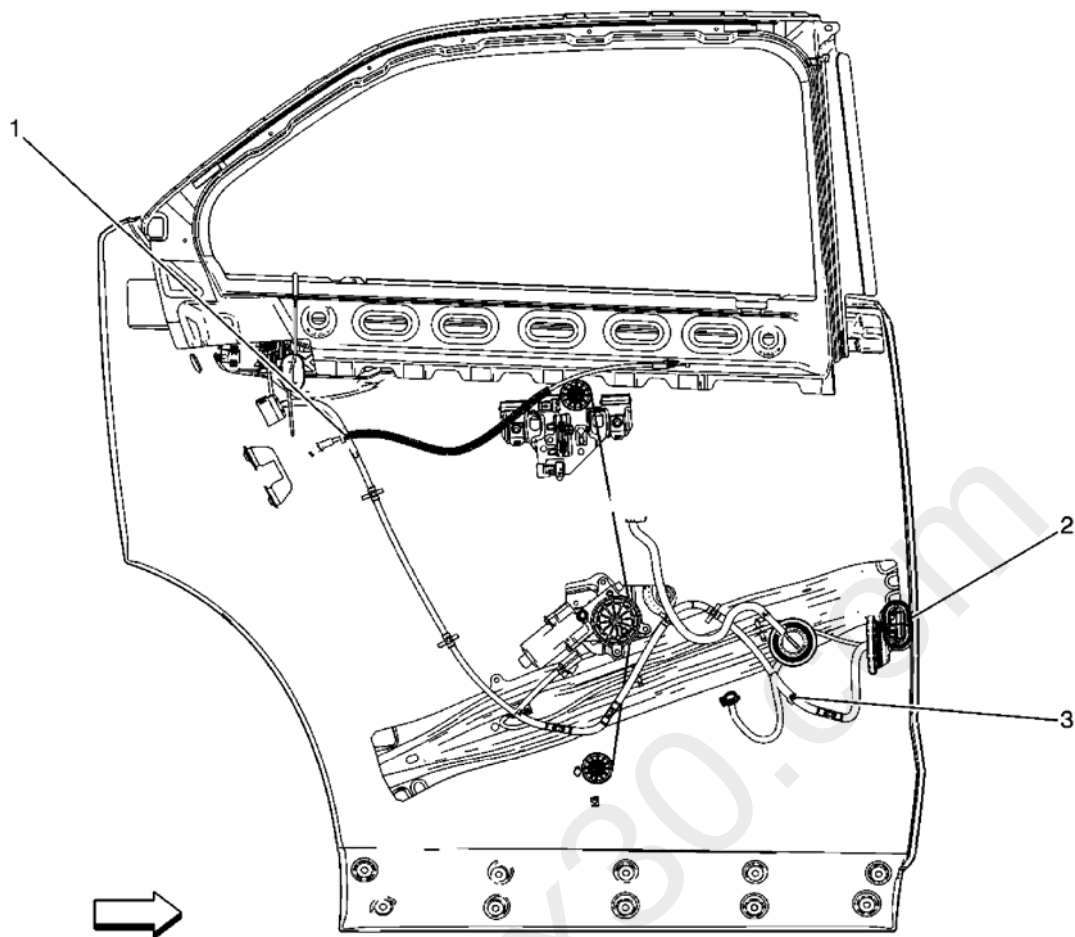


Fig. 11: Left Rear Door Harness Routing
 Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
1	J702
2	X700
3	J701

Right Rear Door Harness Routing

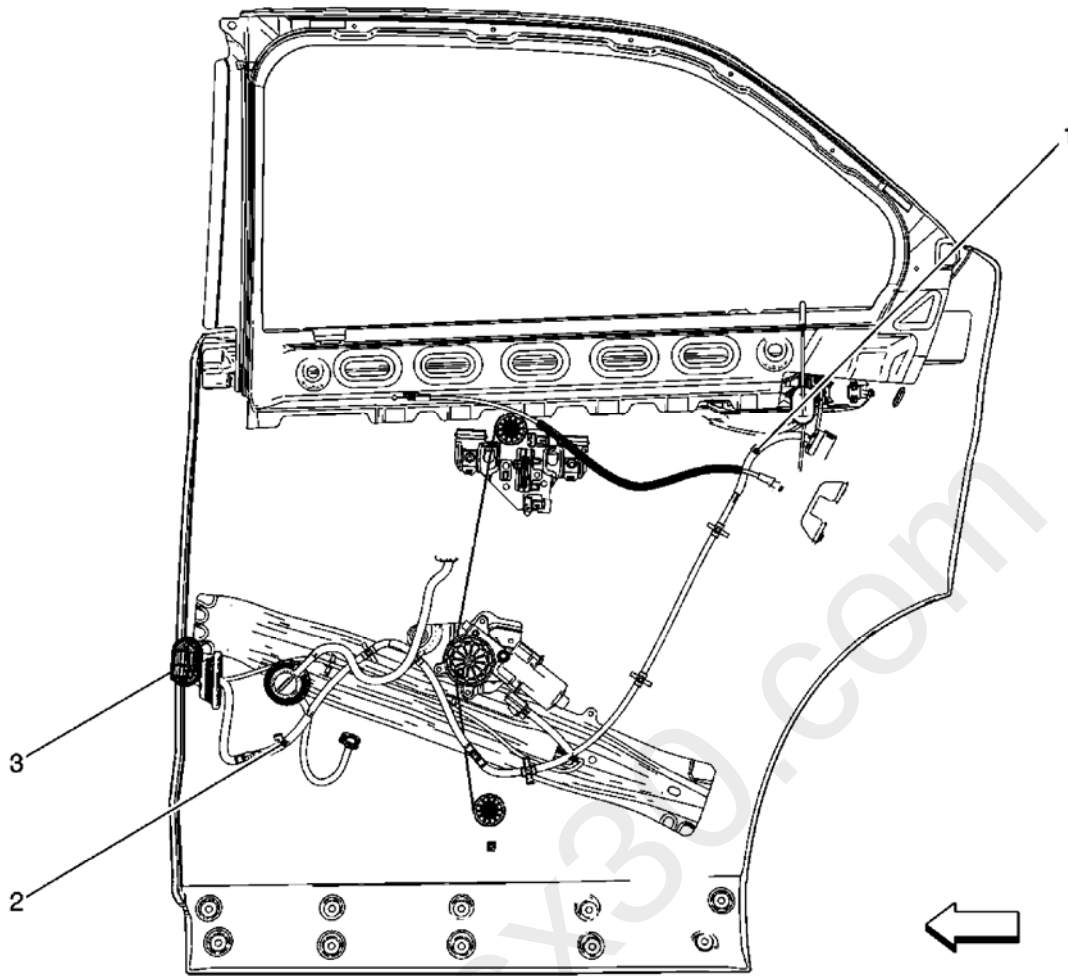


Fig. 12: Right Rear Door Harness Routing
Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
1	J802
2	J801
3	X800

Luggage Compartment Harness Routing

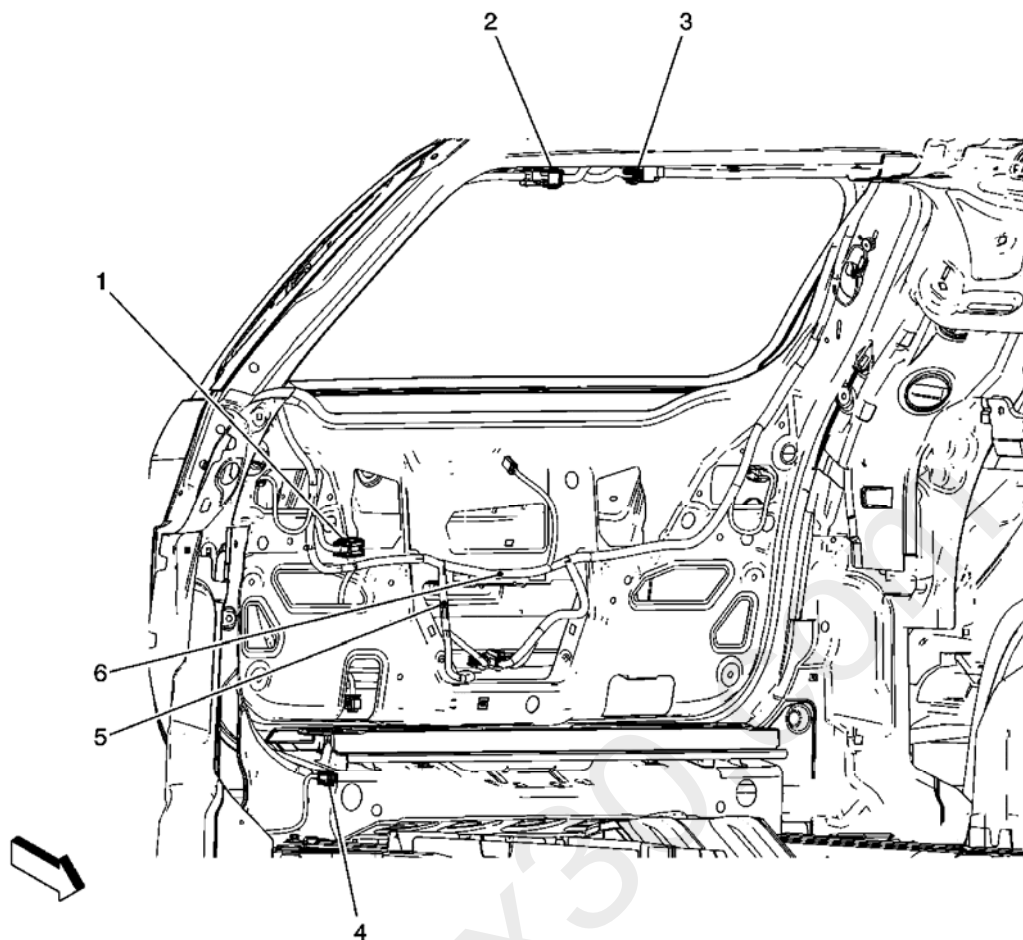


Fig. 13: Luggage Compartment Harness Routing
Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
1	X904
2	X900
3	X901
4	X444 (V92)
5	J905
6	J904

Liftgate Harness Routing (GMC)

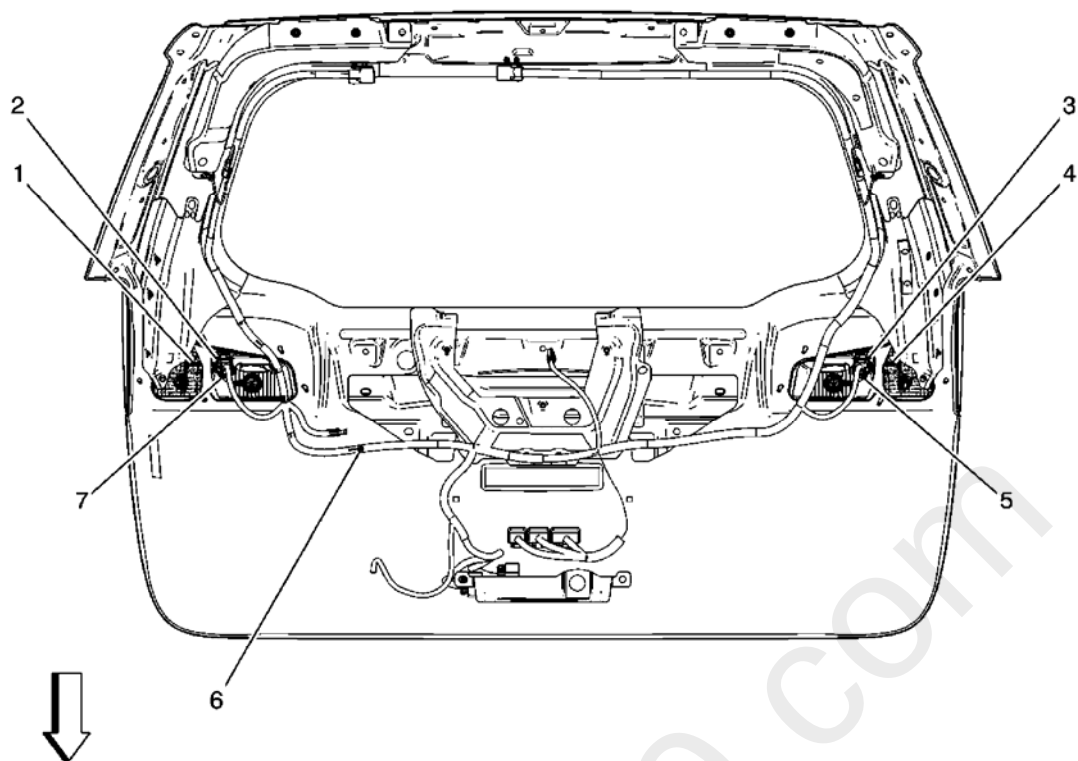


Fig. 14: Liftgate Harness Routing (GMC)
Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
1	J407
2	J907
3	J906
4	J406
5	X902
6	J903
7	X903

Rear of Vehicle Harness Routing (Chevrolet)

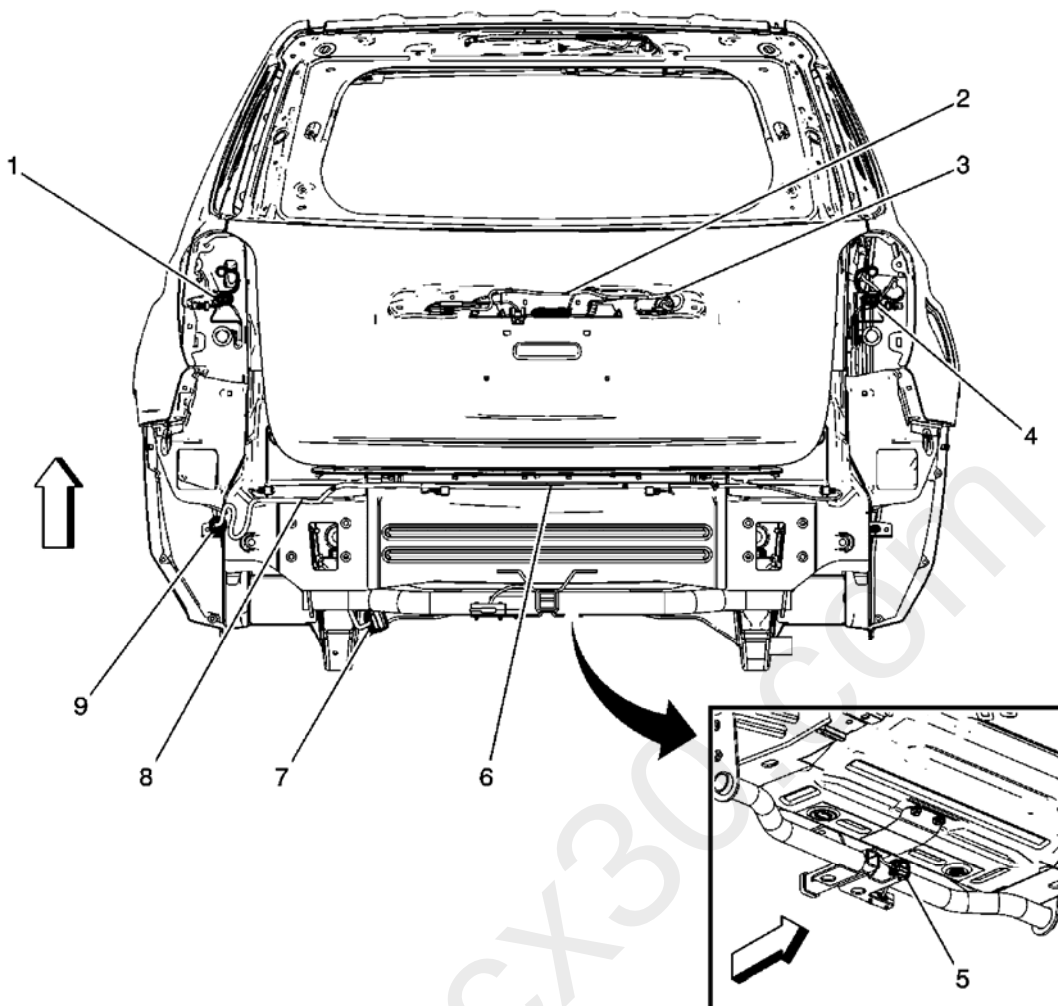


Fig. 15: Rear of Vehicle Harness Routing (Chevrolet)
 Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
1	X407
2	J902
3	J901
4	X408
5	X450 (V92)
6	J404 (UD7)
7	X411
8	J405 (UD7)
9	X406

Voltage Indicators

Symbol	Description
	Battery Voltage
	Ignition Switch - Off Position
	Ignition Switch - Accessory Position
	Ignition Switch - Run Position

	
	Ignition Switch - Start Position

General Icons

Symbol	Description
	Master Component List Icon This icon is used on the schematic to link to the Master Electrical Component List.
	Description and Operation Icon This icon is used on the schematic to link to the Description and Operation of that particular system.



Computer Programming Icon

This icon is used on the schematic to link to Control Module References, which identifies which components need programming upon replacement.

Next Schematic Page Icon

This icon is used on the schematic to navigate to the next schematic in the subsystem.

Previous Schematic Page Icon

This icon is used on the schematic to navigate to the previous schematic in the subsystem.



Supplemental Inflatable Restraint (SIR) or Supplemental Restraint System (SRS) Icon
This icon is used to alert the technician that the system contains SIR/SRS components that require certain precautions before servicing.



Information Icon
This icon is used to alert the technician that there is additional information that will aid in servicing a system.

Danger - High Voltage Icon
This icon is used to alert the technician that a component/system contains 300 volt circuits.



High Voltage Icon

This icon is used to alert the technician that a component/system contains voltage greater than 42 volts but less than 300 volts.

Caution Icon

This icon is used to advise the technician to use caution when servicing this component.

Functional Serial Data Communication

This icon is used to show the technician that the serial data circuit detail is shown incomplete. It also provides an active link to the Data Communication Schematics were the circuit is shown complete.



Switch Position Icons

Symbol	Description
↑ ^ Δ	Generic Up Arrows
↓ ∨ ▽	Generic Down Arrows
	Generic Left Arrows



Generic Right Arrows

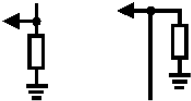
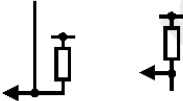
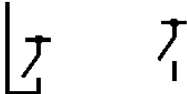


Generic Express Down Arrows

	On/Off Icon
	Generic Lock Icon
	Generic Unlock Icon
	Generic Window Switch Positions - 4 Door

	Generic Window Switch Positions - 2 Door
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Module Circuit Function Icons

Symbol	Description
	I/O Pull-Down Resistors (-)
	I/O Pull-Up Resistors (+)
	I/O High-Side Drive Switch (+)



I/O Low-Side Drive Switch (+)



I/O Bidirectional Switch (+/-)



Pulse-Width Modulation Symbol

B+

Battery Voltage

IGN

Ignition Voltage

5V

Voltage Reference

5V AC

A/C Voltage



Low Reference

 	Ground
	Serial Data
 	Antenna Signal - In
 	Antenna Signal - Out



Brake Apply

Harness Components

Symbol	Description
	Fuse
	Fuse Supplied by a Relay



Circuit Breaker



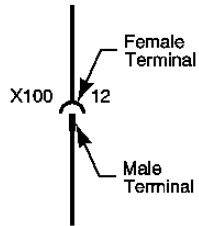
Fusible Link



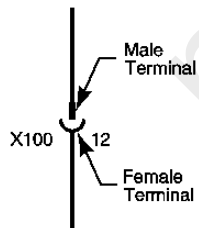
Ground



Case Ground

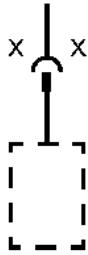


Inline Harness Connector



Inline Harness Connector

Pigtail Connection



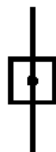
Pigtail Connection

Provisional or Diagnostic Connector

Blunt Cut Wire

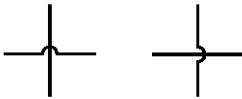


Incomplete Physical Splice

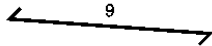


Complete Physical Splice - 2 Wires

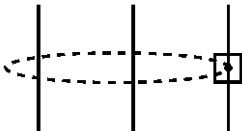
Complete Physical Splice - 3 or more wires



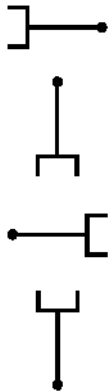
Wire Crosses



Twisted Wires



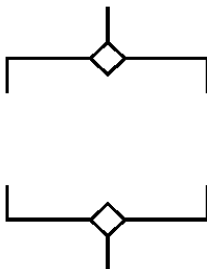
Shield



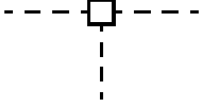
Circuit References



Circuit Continuation Arrowheads

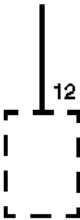
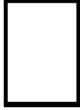


Option Breakpoint

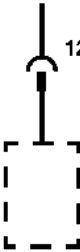
	Ground Circuit Connection
	Connector Shorting Clip

Component Parts

Symbol	Description
	Partial Component When a component is represented in a dashed box, the component or its wiring is not shown in its entirety.
	Entire Component When a component is represented in a solid box the component or its wiring is shown in its entirety.



Connector Directly Attached to Component



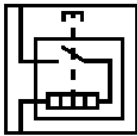
Pigtail Connector

Switches and Relays

Symbol	Description



Accessory Power Outlet

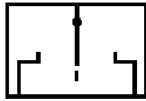


Cigar Lighter



Switch - 2 Position Normally Open

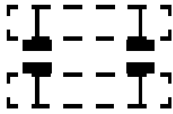
Switch - 2 Position Normally Closed



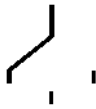
Switch - Rocker

Switch - Contact Plate (1 Wire)

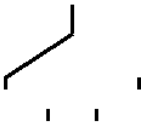
Switch - Contact Plate (2 Wire)



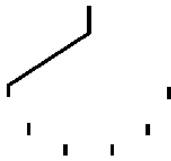
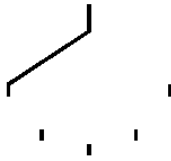
Switch - 3 Position



Switch - 4 Position



Switch - 5 Position



Switch - 6 Position

E-...

Switch Actuator - Push (Momentary)

E_V-..

Switch Actuator - Push (Latching)

	Switch Actuator - Pull (Momentary)
	Switch Actuator - Pull (Latching)
	Switch Actuator - Rotate (Momentary)
	Switch Actuator - Rotate (Latching)





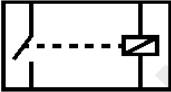
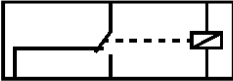




Switch Actuator - Slide (Momentary)

Switch Actuator - Slide (Latching)

Switch Actuator - Pressure (Momentary)

	Switch Actuator - Temperature (Momentary)
	Switch Actuator - Volume (Latching)
	4-Pin Single Pole/Throw Relay - Normally Open
	5-Pin Relay - Normally Closed

Devices and Sensors

Symbol	Description
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Battery

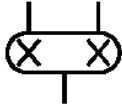


Battery Assembly - Hybrid



Single Filament Light Bulb

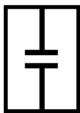
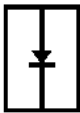
Double Filament Light Bulb



Light Emitting Diode (LED)

Photo Sensor

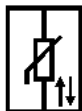
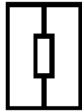
Gauge



Diode

Capacitor

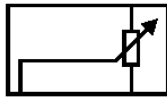
Resistor



Variable Resistor

Variable Resistor - NTC

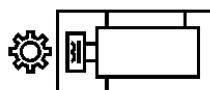
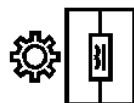
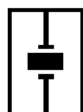
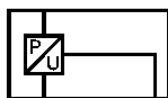
Breakable Wire



Heating Element

Position Sensor

Pressure Sensor



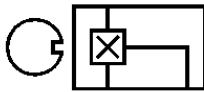
Knock Sensor

Inductive Type Sensor - 2-Wire

Inductive Type Sensor - 3-Wire



Hall Effect Sensor - 2-Wire



Hall Effect Sensor - 3-Wire



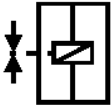
Oxygen Sensor - 2-Wire



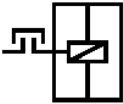
Heated Oxygen Sensor - 4-Wire



Solenoid - Actuator

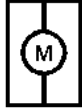


Solenoid - Valve



Clutch

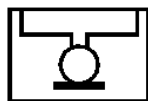
Motor



Motor with PTC

Antenna

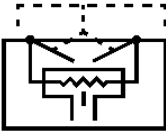
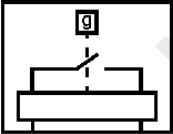
Speaker



Horn

Microphone

Airbag

	
	SIR Coil
	SIR Impact Sensor

VEHICLE ZONING STRATEGY

All grounds, in-line connectors, and splices have identifying numbers that correspond to where they are located in the vehicle. The following table explains the numbering system.

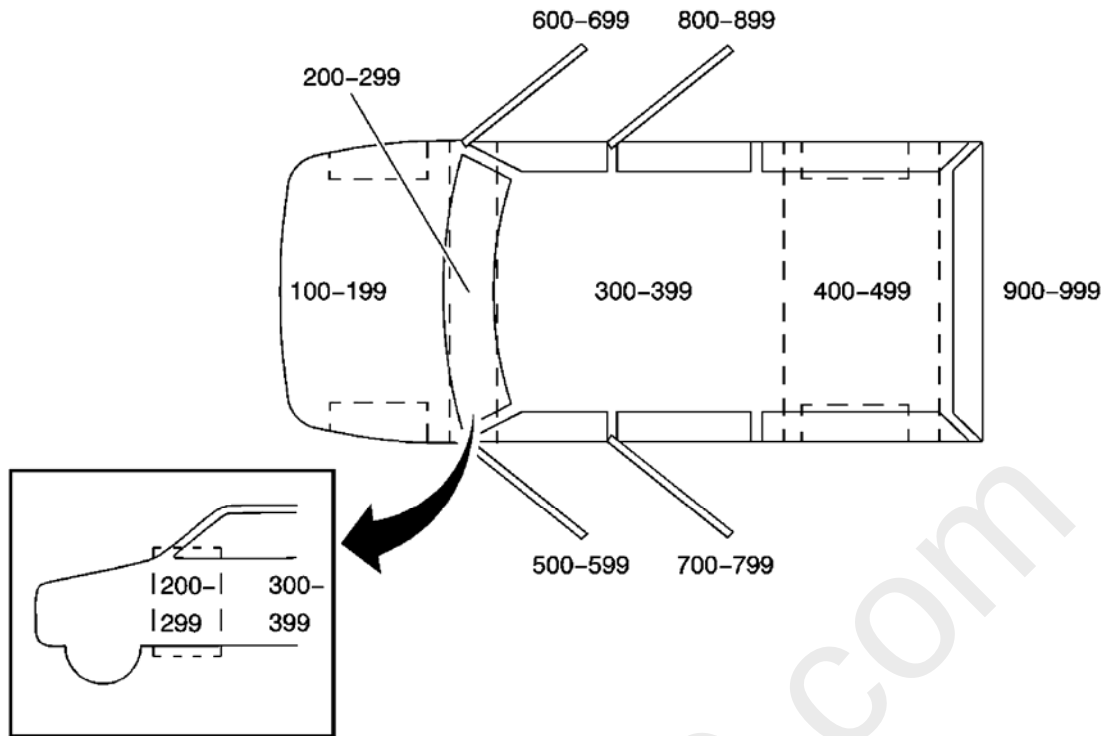


Fig. 16: View Of Utility/Van Zoning
 Courtesy of GENERAL MOTORS CORP.

Callout Numbers	Zone Description
100-199	Engine compartment (All forward of the dash panel)
200-299	Within the instrument panel area
300-399	Passenger compartment (From instrument panel to the rear of the passenger area)
400-499	Luggage compartment (From the rear of the passenger area to the rear of the vehicle)
500-599	Within the driver door
600-699	Within the front passenger door
700-799	Within the left rear door
800-899	Within the right rear door
900-999	Within the liftgate, endgate, or rear compartment lid

POWER DISTRIBUTION SCHEMATICS

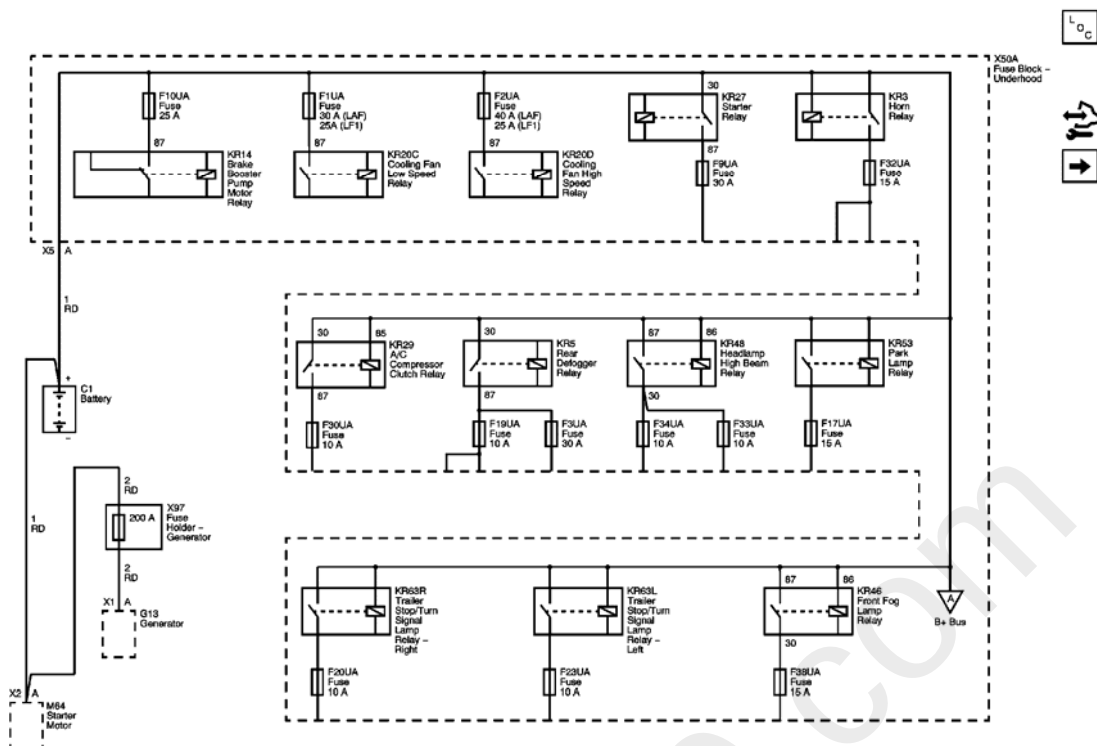


Fig. 17: B+ Bus (1 of 6)

Courtesy of GENERAL MOTORS CORP.

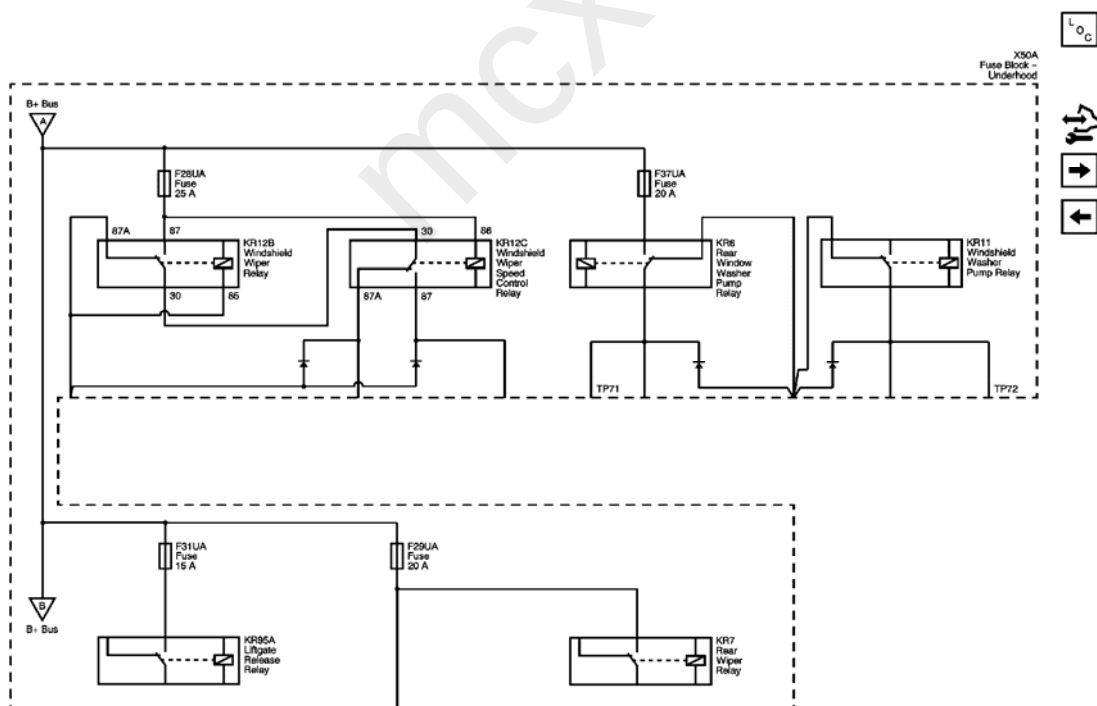


Fig. 18: B+ Bus (2 of 6)
Courtesy of GENERAL MOTORS CORP.

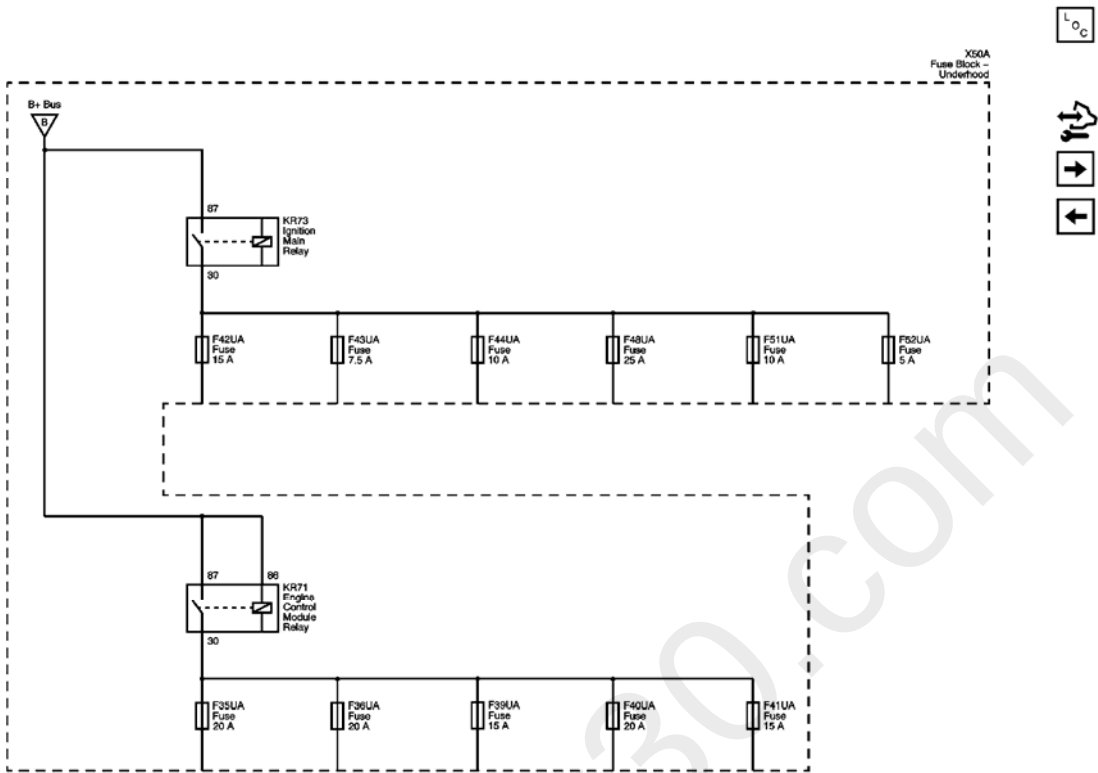


Fig. 19: B+ Bus (3 of 6)
Courtesy of GENERAL MOTORS CORP.

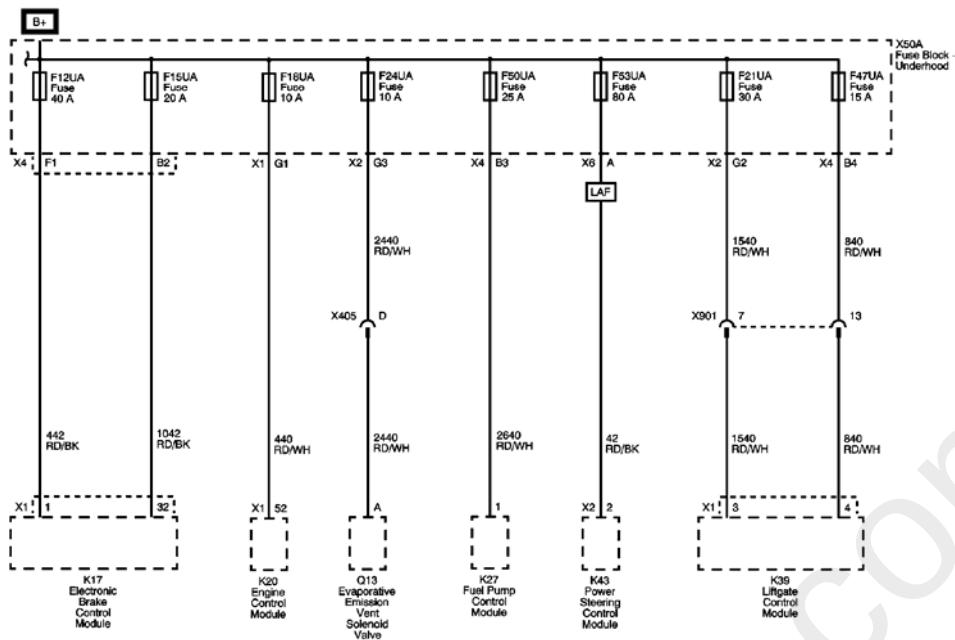


Fig. 20: B+ Bus (4 of 6)
Courtesy of GENERAL MOTORS CORP.

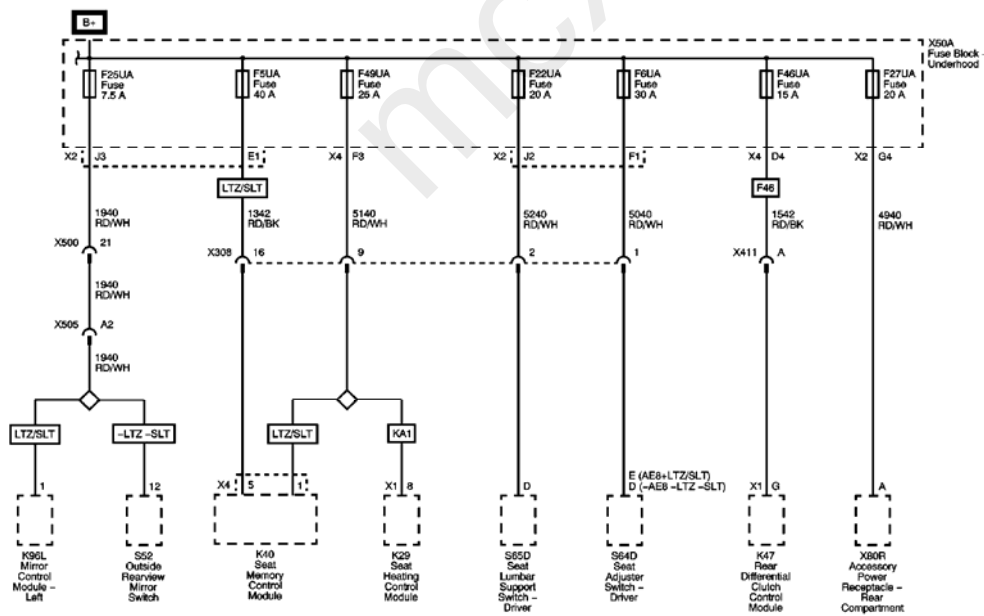


Fig. 21: B+ Bus (5 of 6)

Courtesy of GENERAL MOTORS CORP.

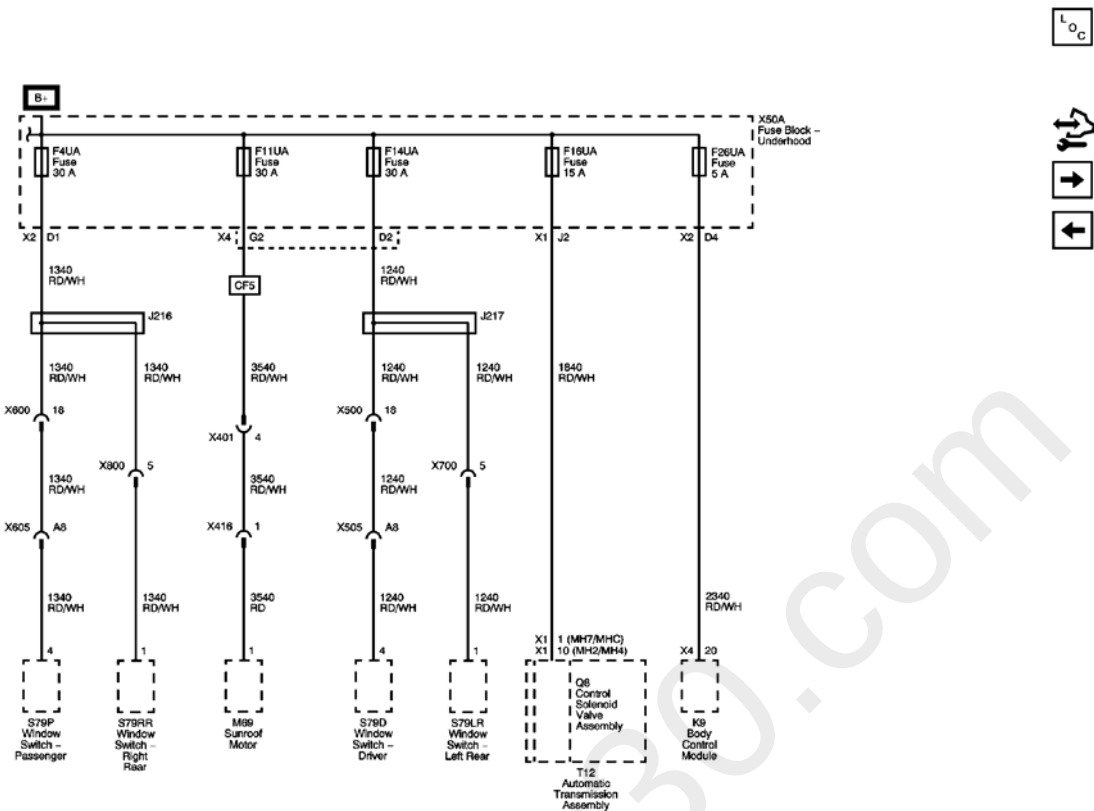


Fig. 22: B+ Bus (6 of 6)
Courtesy of GENERAL MOTORS CORP.

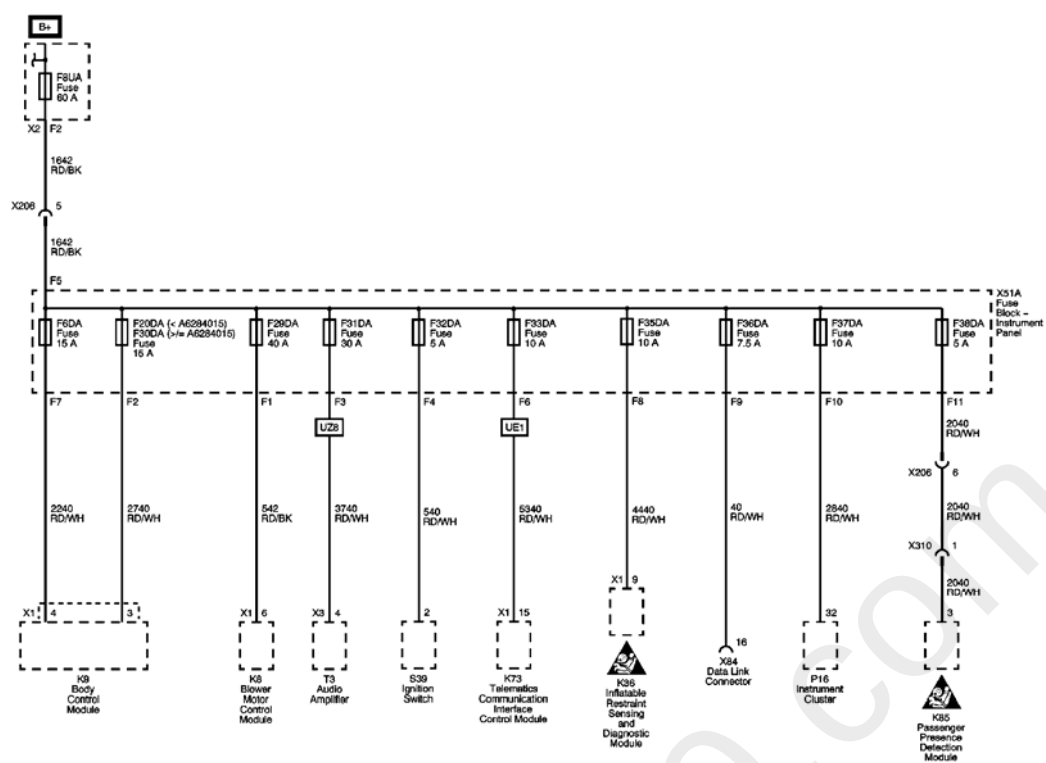


Fig. 24: F8UA, F6DA, F20DA, F29DA, F31DA, F32DA, F33DA, F35DA, F36DA, F37DA, and F38DA Fuses
 Courtesy of GENERAL MOTORS CORP.



Fig. 25: F13UA, F13DA, F17DA, F21DA, and F25DA Fuses and Accessory Relay
Courtesy of GENERAL MOTORS CORP.

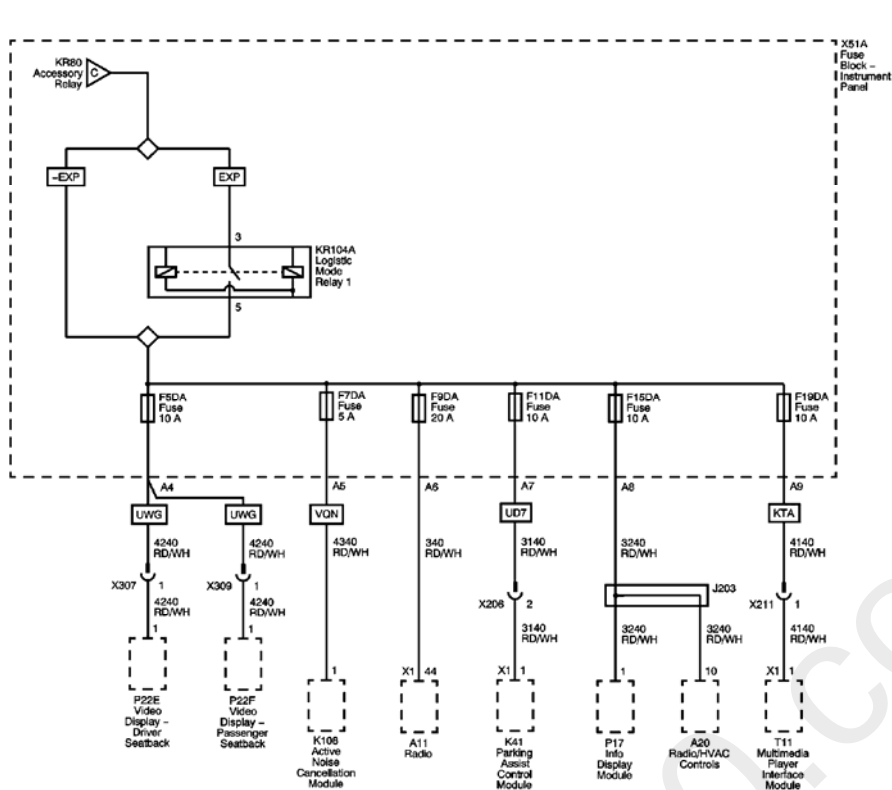


Fig. 26: F5DA, F7DA, F9DA, F11DA, F15DA, and F19DA Fuses and Logistic Mode Relay 1
 Courtesy of GENERAL MOTORS CORP.

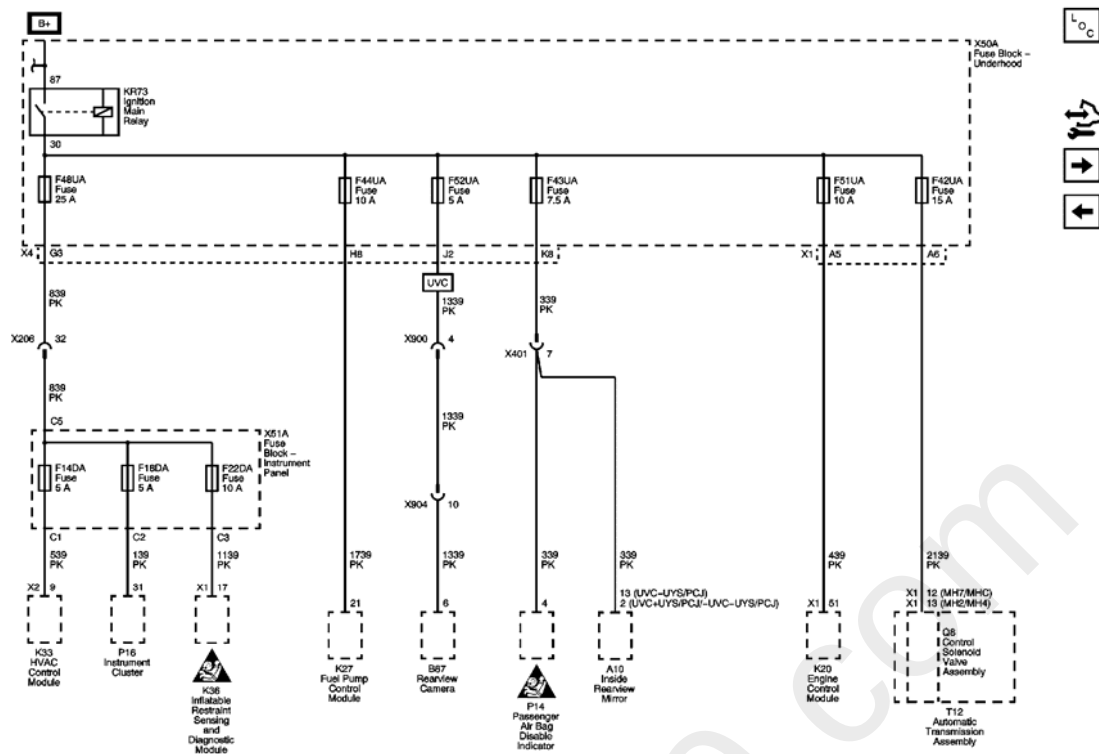


Fig. 27: F42UA, F43UA, F44UA, F48UA, F51UA, and F52UA Fuses and Ignition Main Relay
Courtesy of GENERAL MOTORS CORP.

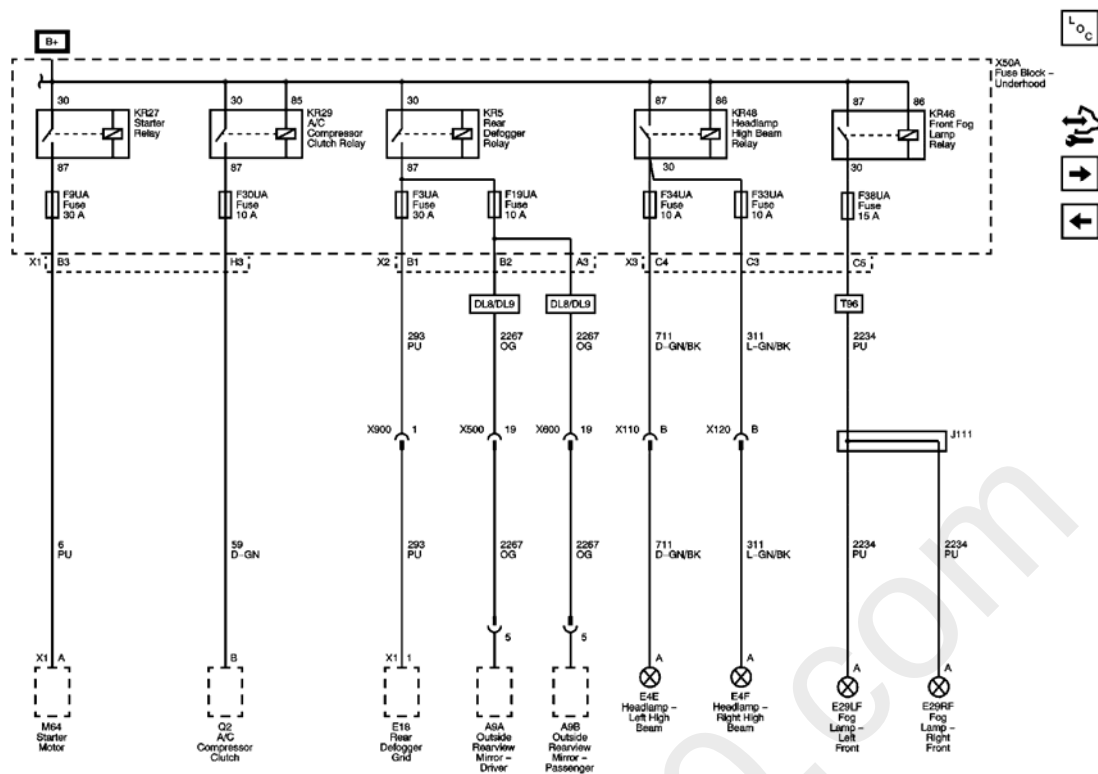


Fig. 28: F3UA, F9UA, F19UA, F30UA, F33UA, F34UA, and F38UA Fuses
 Courtesy of GENERAL MOTORS CORP.

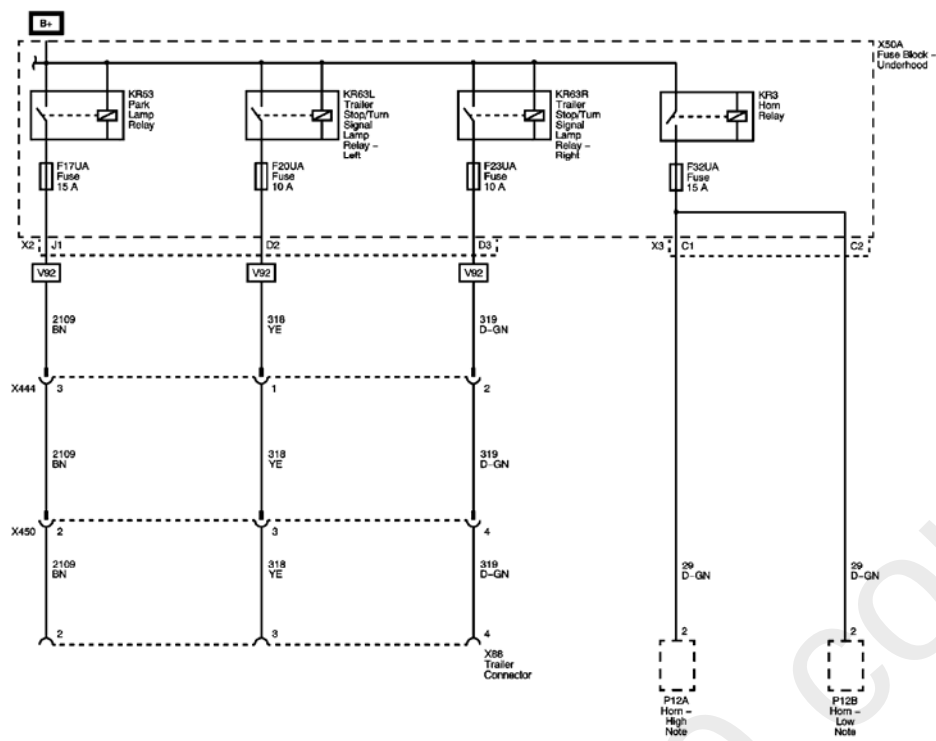


Fig. 29: F17UA, F20UA, F23UA, and F32UA Fuses
 Courtesy of GENERAL MOTORS CORP.

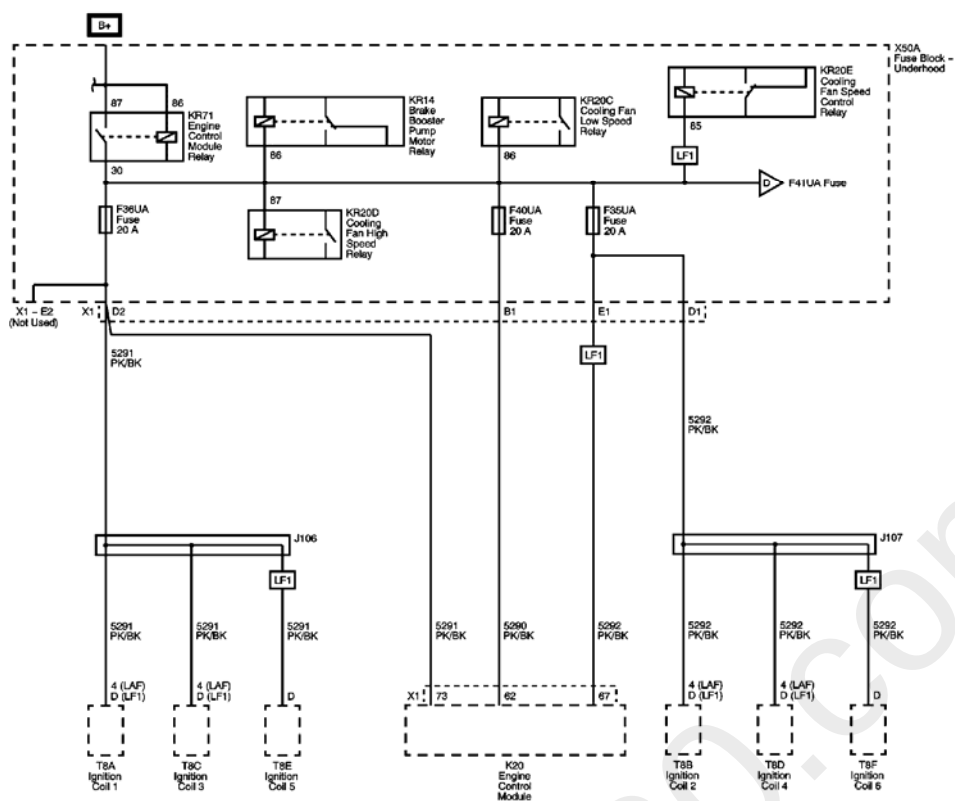


Fig. 30: F35UA, F36UA, and F40UA Fuses
Courtesy of GENERAL MOTORS CORP.

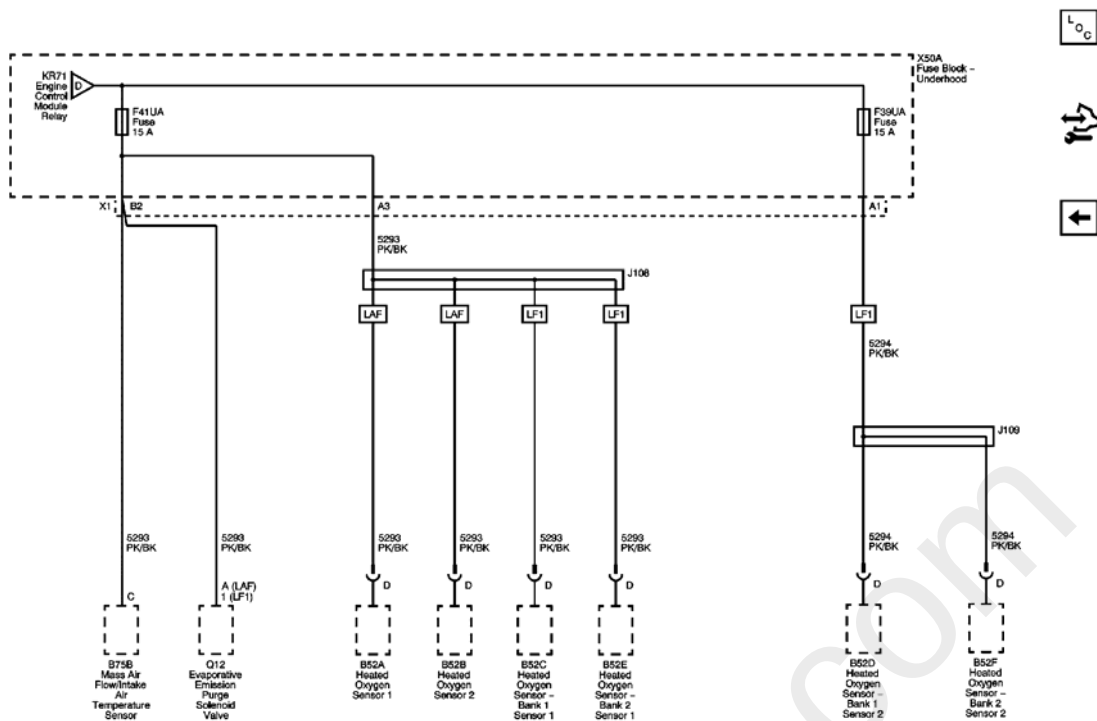


Fig. 31: F39UA and F41UA Fuses

Courtesy of GENERAL MOTORS CORP.

POWER MODING SCHEMATICS

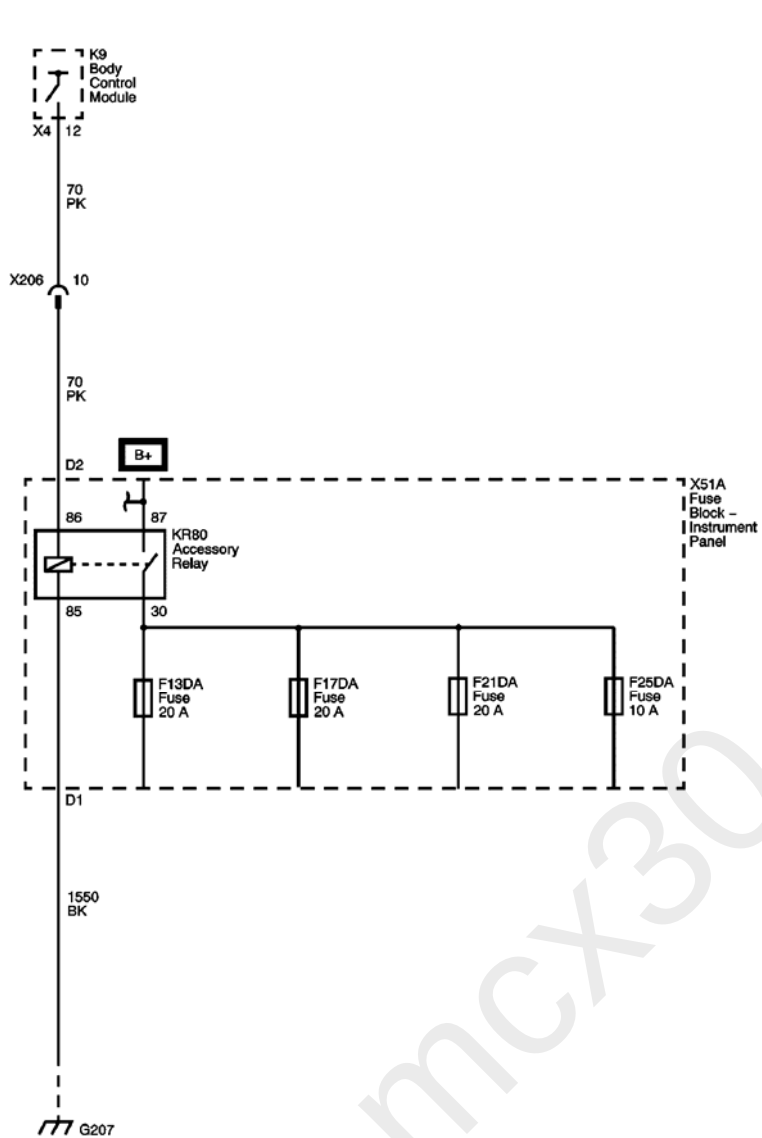


Fig. 32: Retained Accessory Power Relay
 Courtesy of GENERAL MOTORS CORP.

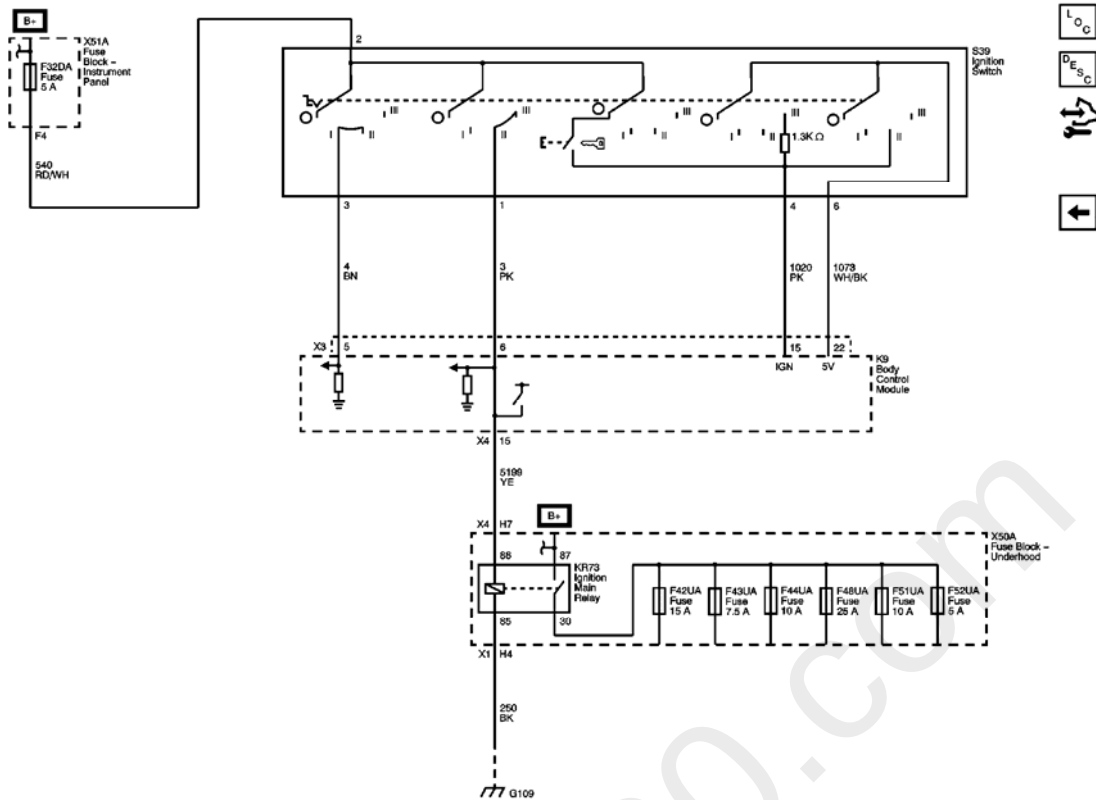


Fig. 33: Ignition Switch and Ignition Main Relay
 Courtesy of GENERAL MOTORS CORP.

IGNITION LOCK SCHEMATICS

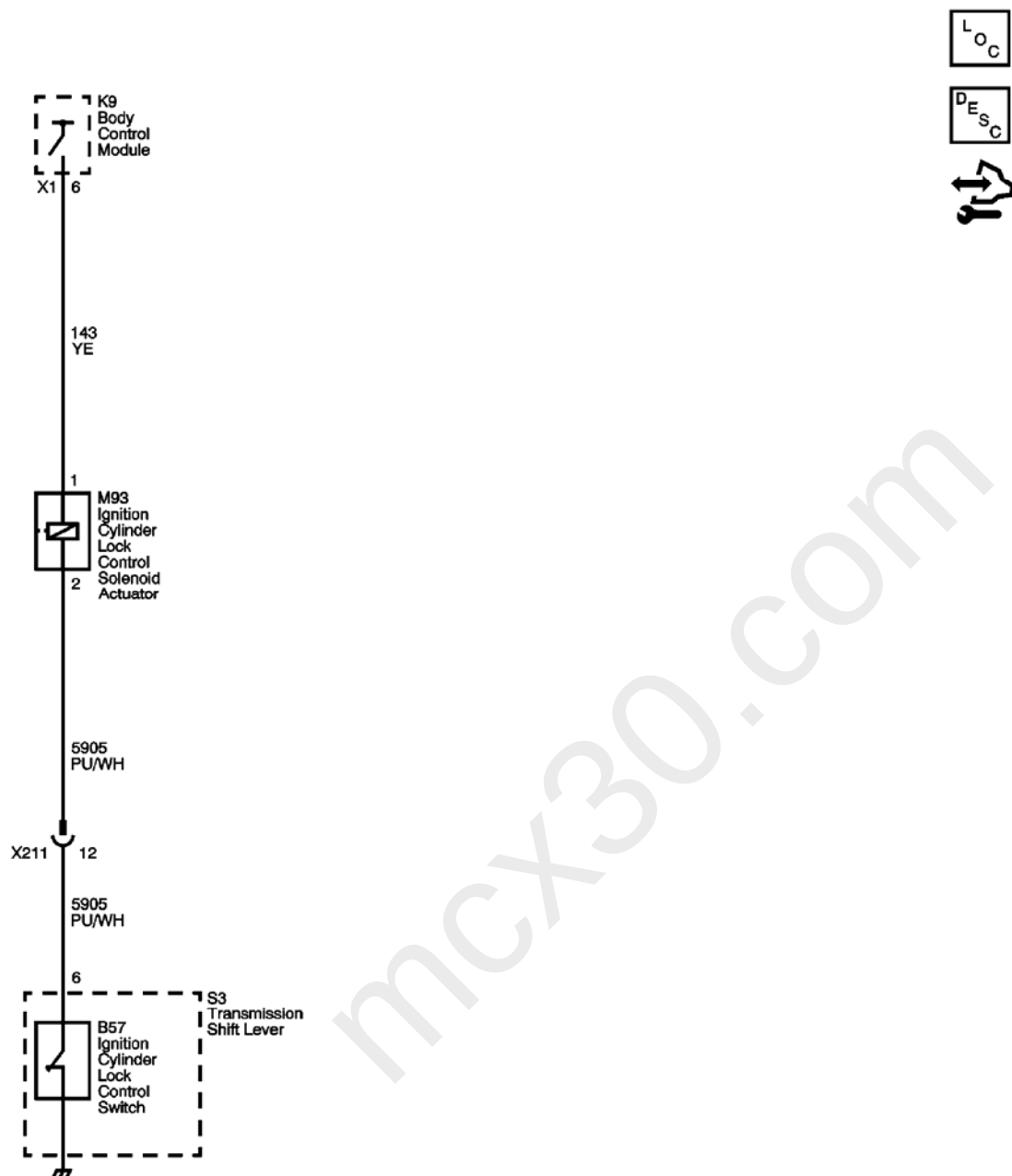


Fig. 34: Ignition Lock

Courtesy of GENERAL MOTORS CORP.

GROUND DISTRIBUTION SCHEMATICS



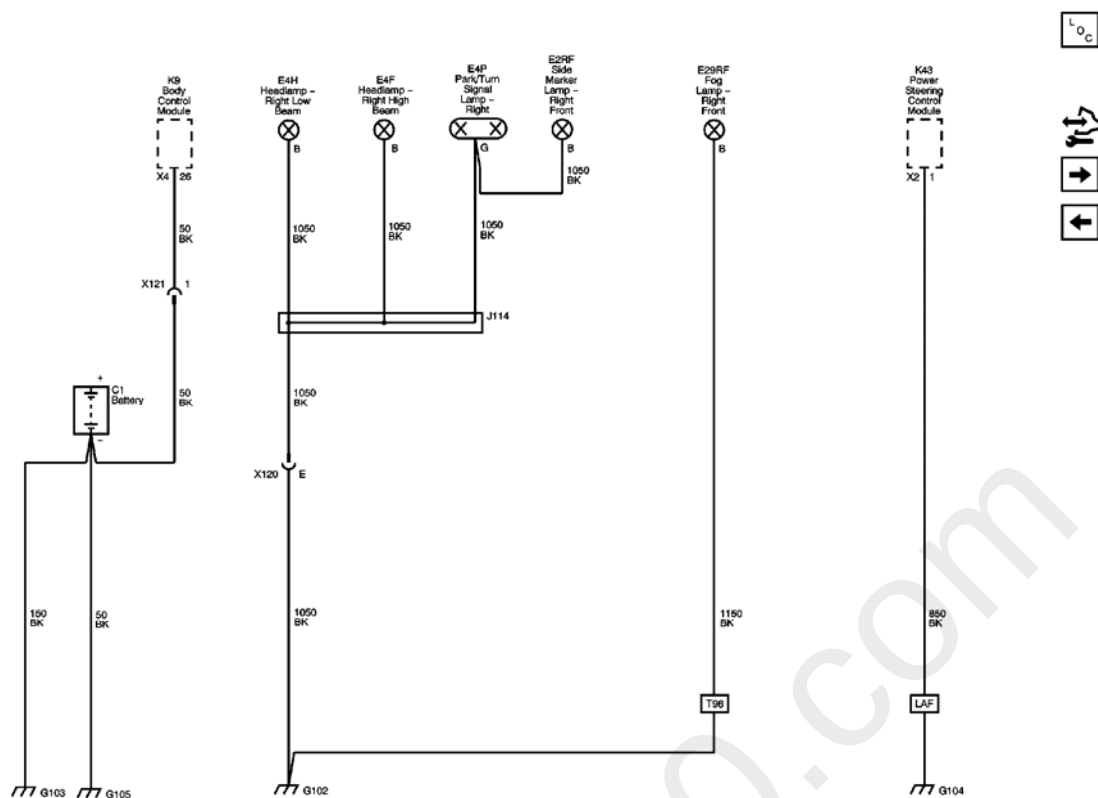


Fig. 36: G102, G103, G104, G105

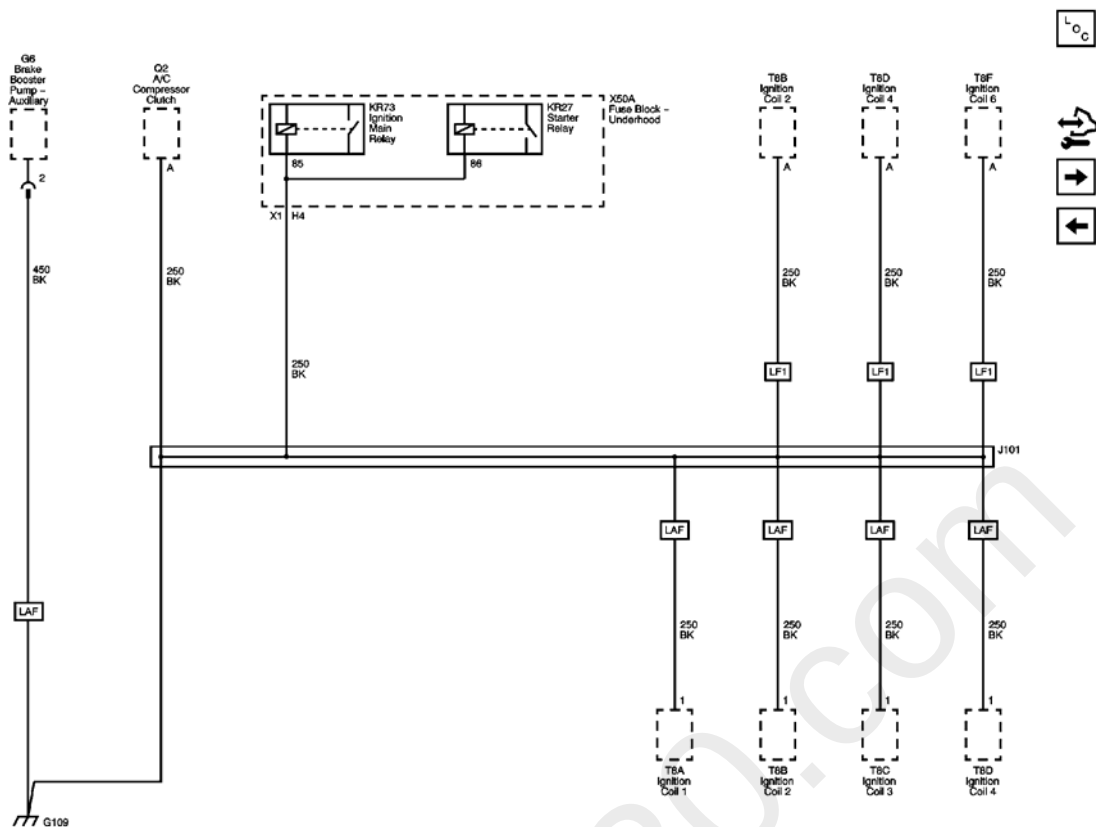


Fig. 37: G109

Courtesy of GENERAL MOTORS CORP.

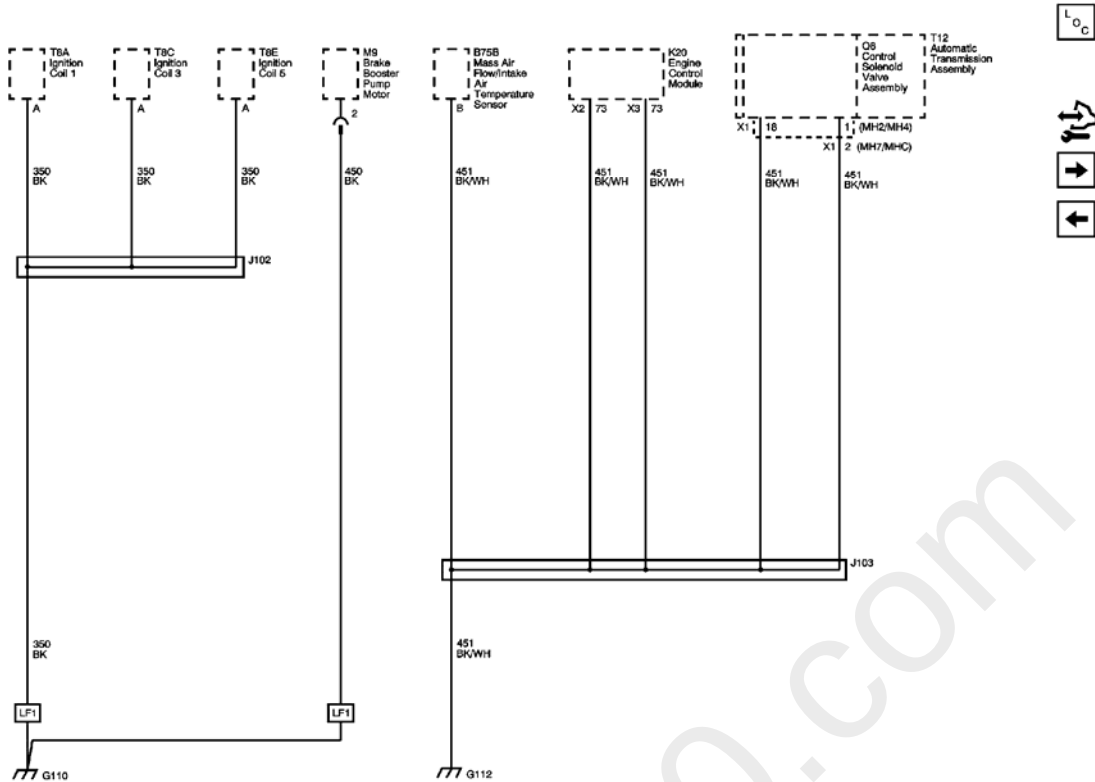


Fig. 38: G110 and G112

Courtesy of GENERAL MOTORS CORP.

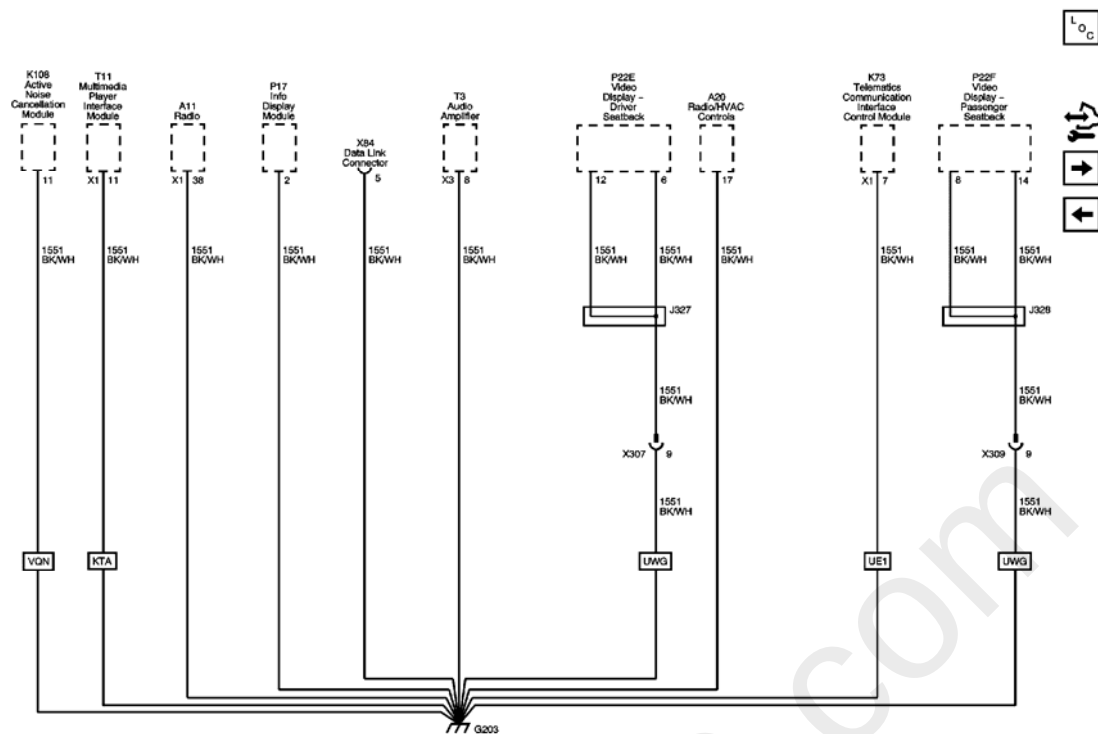


Fig. 39: G203

Courtesy of GENERAL MOTORS CORP.



Courtesy of GENERAL MOTORS CORP.

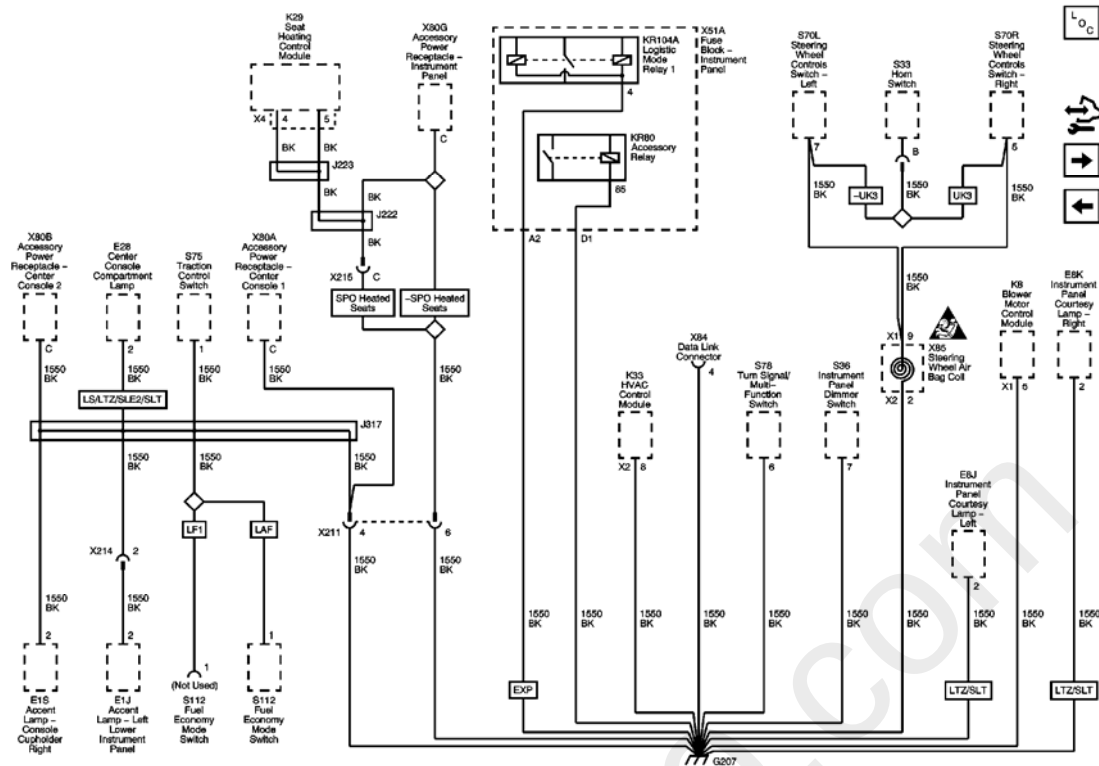


Fig. 41: G207

Courtesy of GENERAL MOTORS CORP.

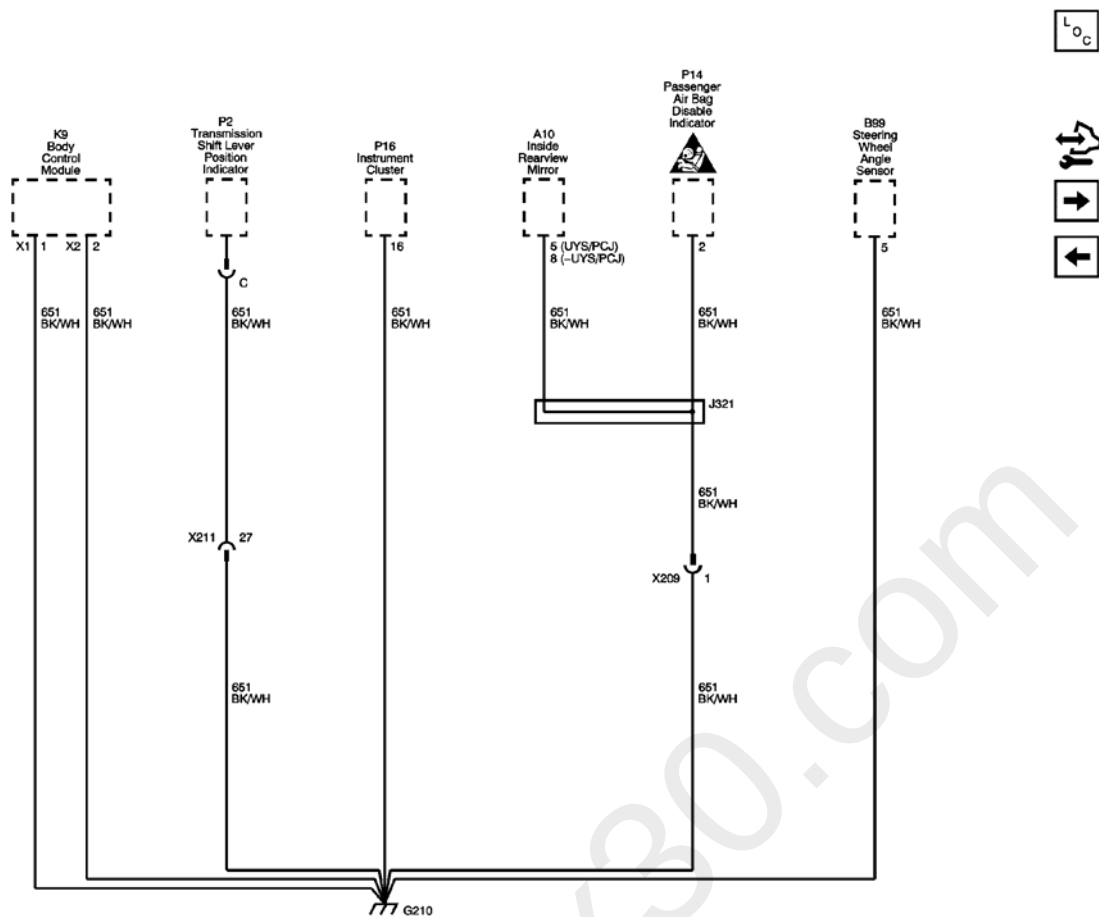


Fig. 42: G210
 Courtesy of GENERAL MOTORS CORP.

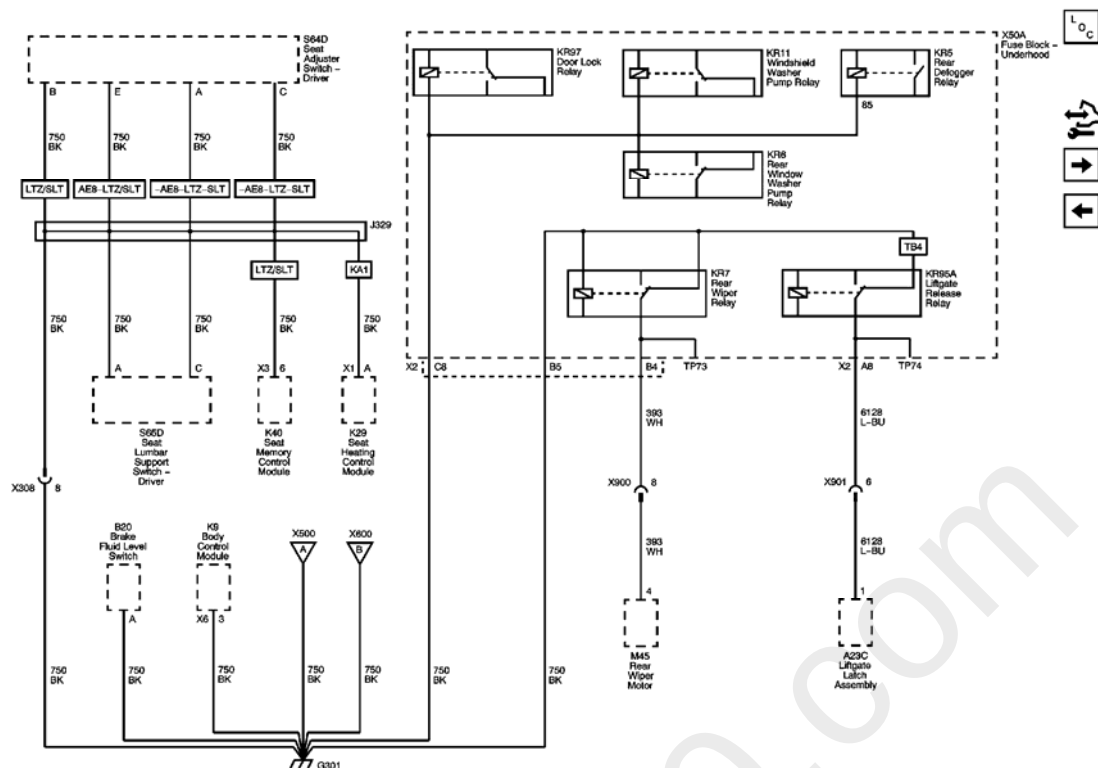


Fig. 43: G301 (1 of 2)

Courtesy of GENERAL MOTORS CORP.

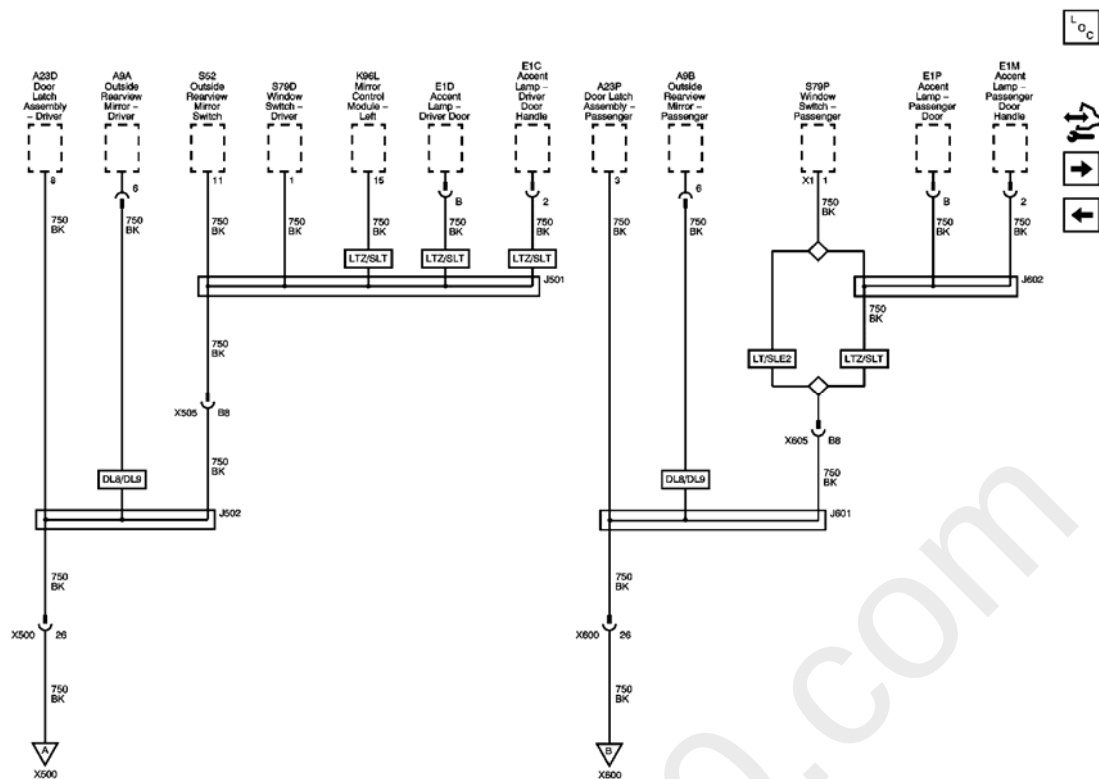


Fig. 44: G301 (2 of 2)

Courtesy of GENERAL MOTORS CORP.

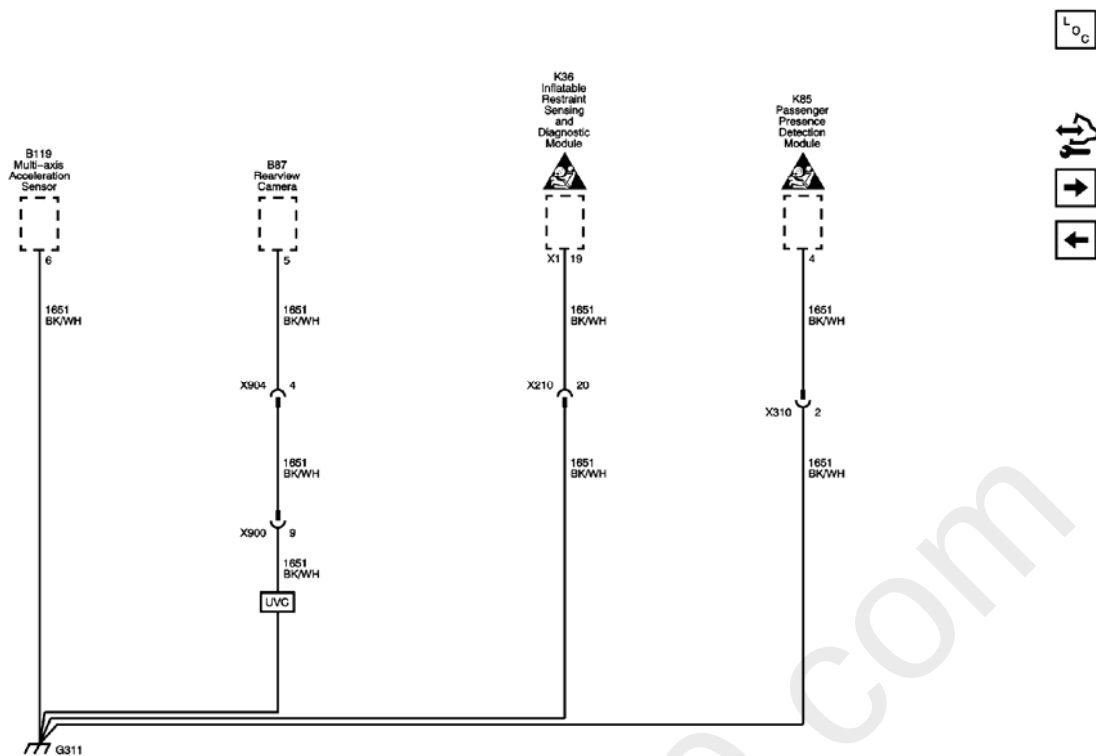


Fig. 45: G311
 Courtesy of GENERAL MOTORS CORP.

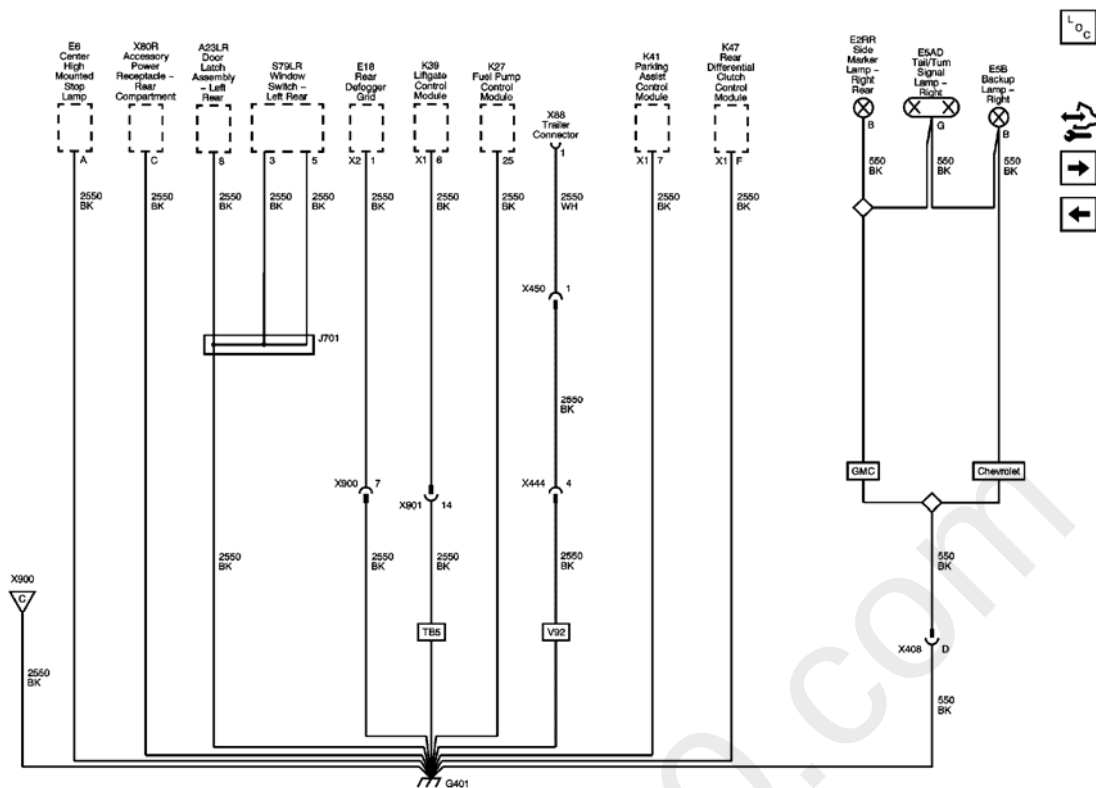


Fig. 46: G401 (1 of 2)

Courtesy of GENERAL MOTORS CORP.

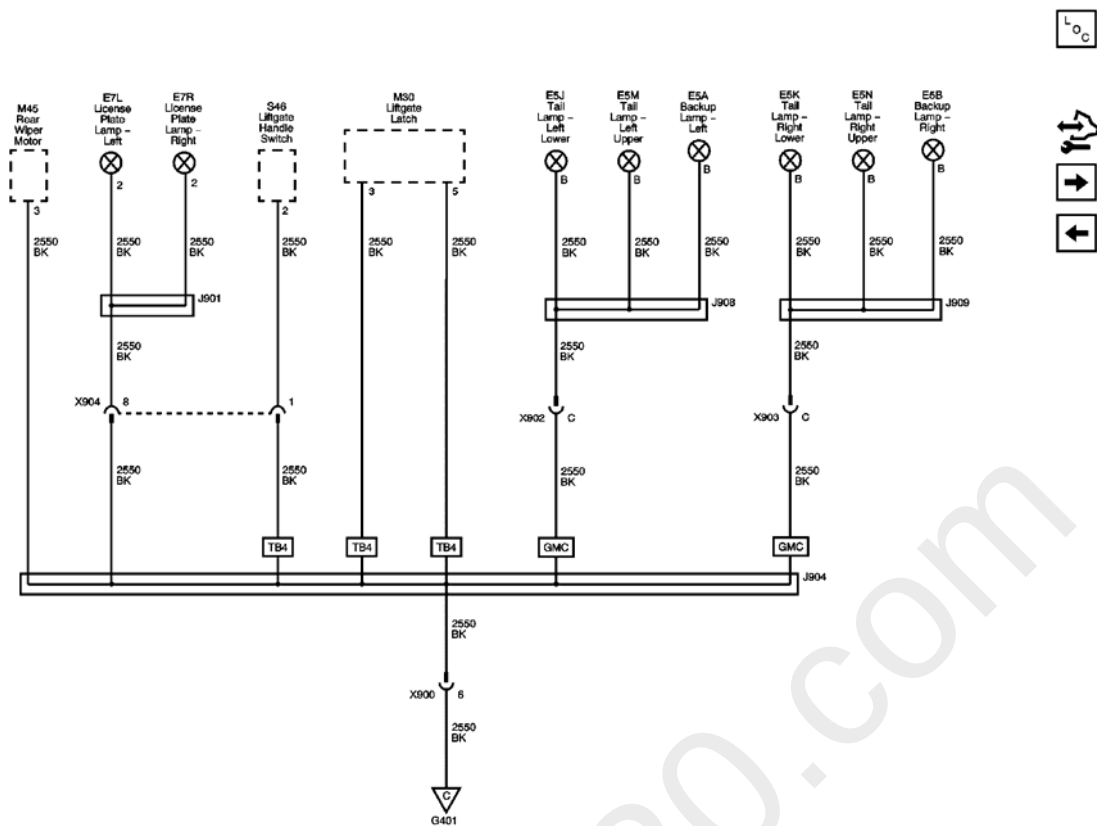


Fig. 47: G401 (2 of 2)

Courtesy of GENERAL MOTORS CORP.

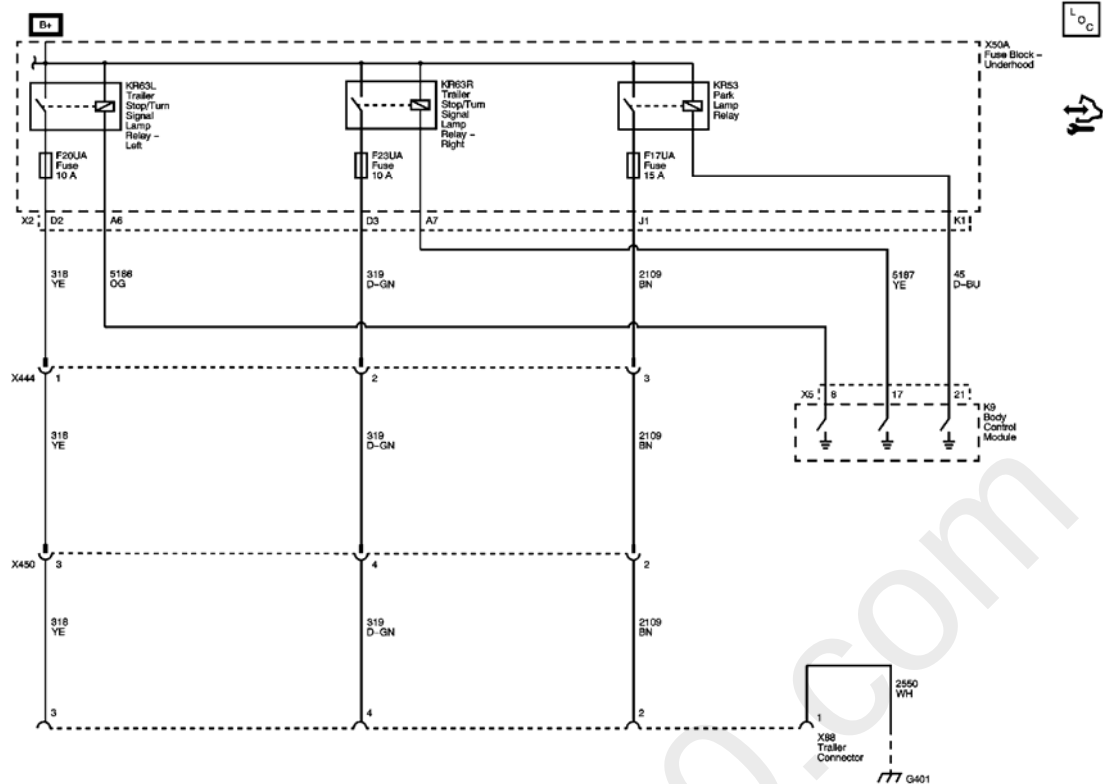


Fig. 49: Trailer Connector/Provision
 Courtesy of GENERAL MOTORS CORP.