

2017 ELECTRICAL

Wiring Systems and Power Management - Component Locator - Encore

COMPONENT LOCATOR

ELECTRICAL CENTER IDENTIFICATION VIEWS (BUICK)

X50A Fuse Block - Underhood, Top View (Buick with LE2)

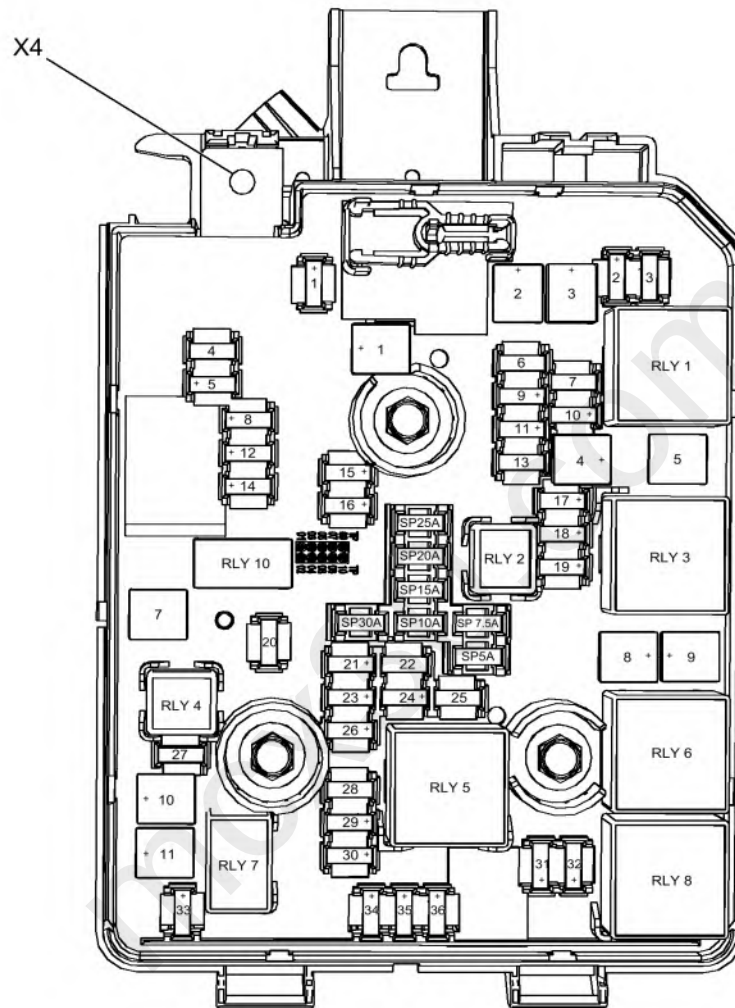


Fig. 1: X50A Fuse Block - Underhood, Top View (Buick with LE2).

Courtesy of GENERAL MOTORS COMPANY

X50A FUSE BLOCK - UNDERHOOD FUSE AND RELAY IDENTIFICATION LEGEND (BUICK WITH LE2)

No.	Device Label Name	Device Assigned Name	Rating	Description
Mini Fuses				
01	SUNROOF	F1UA	25A	• K61 Sunroof Control Module

No.	Device Label Name	Device Assigned Name	Rating	Description
02	RAIN SENSOR, OSRVM SW, DRIVER WINDOW SW, UGDO	F2UA	7.5A	• B177 Rain/Ambient Light Sensor Module (-UFL) • B224 Multifunction Windshield Sensor (UFL) • S52 Outside Rearview Mirror Switch • S79D Window Switch - Driver • S25 Universal Garage Door Opener
03	VENT SOLENOID	F3UA	5A	• Q13 Evaporative Emission Vent Solenoid Valve
04	SPARE	F4UA	25A	• Spare
05	EBCM PWR	F5UA	30A	• K17 Electronic Brake Control Module
06	IBS	F6UA	5A	• B110 Battery Sensor Module (KL9)
07	COLUMN LOCK	F7UA	10A	• K60 Steering Column Lock Module (N06)
08	TCM PWR	F8UA	15A	• K71 Transmission Control Module (MM1)
09	AOS	F9UA	5A	• K85 Passenger Presence Module (AL0)
10	ISRVM, REAR VISION, HDLP LEVELING LH/RH, HEADLAMP SW	F10UA	10A	• S30 Headlamp Leveling Switch • M29L Headlamp Leveling Actuator - Left • M29R Headlamp Leveling Actuator - Right • B87 Rearview Camera • A10 Inside Rearview Mirror
11	REAR WIPER	F11UA	20A	• KR7 Rear Wiper Relay • M45 Rear Wiper Motor
12	RR WDW DEFOG	F12UA	25A	• E18 Rear Defogger Grid
13	SEAT LUMBAR	F13UA	10A	• S65D Seat Lumbar Support Switch - Driver (AG9)

No.	Device Label Name	Device Assigned Name	Rating	Description
14	OSRVM	F14UA	7.5A	- A9A Outside Rearview Mirror - Driver - A9B Outside Rearview Mirror - Passenger
15	FSCM	F15UA	20A	K38 Chassis Control Module (FHA)
16	SEAT MODULE	F16UA	25A	Heated Seat Memory Module
17	DC to DC, COMPASS	F17UA	10A	- T19 Power Supply Transformer (KL9) - K18 Compass Module
18	TCM, ECM	F18UA	5A	- K20 Engine Control Module - K71 Transmission Control Module (MM1)
19	FUEL PUMP	F19UA	20A	- KR23A Fuel Pump Relay - A7 Fuel Pump and Level Sensor Assembly
20	SPARE	F20UA	15A	Spare
21	FAN RLY (AUX BEC)	F21UA	15A	- KR20C Cooling Fan Low Speed Relay - KR20E Cooling Fan Speed Control Relay - KR20F Cooling Fan Relay - KR20P Cooling Fan Medium Speed Relay - KR29 A/C Compressor Clutch Relay
22	SPARE	F22UA	10A	Spare
23	IGNITION COIL / INJECTOR COIL	F23UA	20A	- Q17A Fuel Injector 1 - Q17B Fuel Injector 2 - Q17C Fuel Injector 3 - Q17D Fuel Injector 4 - T8A Ignition Coil 1 - T8B Ignition Coil 2 - T8C Ignition Coil 3 - T8D Ignition Coil 4

No.	Device Label Name	Device Assigned Name	Rating	Description
24	WASHER PUMP	F24UA	10A	• KR6 Rear Window Washer Pump Relay • KR11 Windshield Washer Pump Relay • G24 Windshield Washer Pump
25	SPARE	F25UA	10A	• Spare
26	CANISTER PURGE SOL, WATER VALVE SOL, TURBO WASTEGATE SOL, TURBO BYPASS SOL, O2 SENSOR PRE/POST	F26UA	10A	• B52A Heated Oxygen Sensor 1 • B52B Heated Oxygen Sensor 2 • B280 Automatic Transmission Accumulator Solenoid Valve (MM1) • E41 Engine Coolant Thermostat Heater • Q12 Evaporative Emission Purge Solenoid Valve • Q40 Turbocharger Bypass Solenoid Valve • Q42 Turbocharger Wastegate • Q56 Coolant Pump Clutch
27	SPARE	F27UA	15A	• Spare
28	ECM PT IGN-3	F28UA	10A	• K20 Engine Control Module
29	ECM PT IGN-1 / IGN-2	F29UA	25A	• K20 Engine Control Module
30	MAF SENSOR	F30UA	10A	• B75C Multifunction Intake Air Sensor
31	HIGH BEAM LH	F31UA	15A	• E4E Headlamp - Left High Beam
32	HIGH BEAM RH	F32UA	15A	• E4F Headlamp - Right High Beam
33	ECM B+	F33UA	15A	• K20 Engine Control Module
34	HORN	F34UA	15A	• P12A Horn - High Note • P12B Horn - Low Note

No.	Device Label Name	Device Assigned Name	Rating	Description
35	A/C CLUTCH	F35UA	10A	• KR29 A/C Compressor Clutch Relay • G1 A/C Compressor
36	FRONT FOG LAMP	F36UA	15A	• E29LF Fog Lamp - Left Front • E29RF Fog Lamp - Right Front
J-Case Fuses				
1	EBCM PUMP	F1UB	40A	• K17 Electronic Brake Control Module
2	FRT WIPER	F2UB	30A	• KR12B Windshield Wiper Relay • KR12C Windshield Wiper Speed Control Relay
3	BLOWER	F3UB	40A	• KR32E Blower Motor Relay • M8 Blower Motor
4	IEC R/C	F4UB	30A	• X51A Fuse Block - Instrument Panel
5	SPARE	F5UB	40A	• Spare
6	NOT USED	F6UB	30A	• Not Used
7	STARTER	F7UB	30A	• KR27 Starter Relay (KL9+MM1)
8	COOL FAN LOW/MID	F8UB	40A	• KR20C Cooling Fan Low Speed Relay • KR20P Cooling Fan Medium Speed Relay
9	COOL FAN HIGH	F9UB	60A	• KR20D Cooling Fan High Speed Relay
10	EVP	F10UB	30A	• KR14 Brake Booster Pump Motor Relay • M9 Brake Booster Pump Motor
11	STARTER	F11UB	40A	• KR27C Starter Pinion Solenoid Actuator Relay (KL9+MM1) • KR27 Starter Relay - (KL9+MM1)

No.	Device Label Name	Device Assigned Name	Rating	Description
U - Micro Relays				
2	FUEL PUMP	KR23A Fuel Pump Relay	-	A7 Fuel Pump and Level Sensor Assembly
4	SPARE	KR150 Relay - Spare	-	Spare
HC-Micro Relays				
6	COOL FAN HIGH	KR20D Cooling Fan High Speed Relay	-	KR20D Cooling Fan High Speed Relay
MINI Relays				
1	RUN CRANK	KR73 Ignition Main Relay	-	- F4UB - F7UA - F10UA - F17UA - F18UA - F19UA
3	COOL FAN MID	KR20P Cooling Fan Medium Speed Relay	-	- R10 Cooling Fan Resistor - G10 Cooling Fan Motor
5	PT RELAY	KR75 Engine Controls Ignition Relay	-	- F21UA - F23UA - F26UA - F28UA - F29UA - F30UA
8	COOL FAN LOW	KR20C Cooling Fan Low Speed Relay	-	- R10 Cooling Fan Resistor - G10 Cooling Fan Motor
HC-Mini Relays				
6	COOL FAN HIGH	KR20D Cooling Fan Medium Speed Relay	-	- R10 Cooling Fan Resistor - G10 Cooling Fan Motor
Note: Relays listed below are non-serviceable Printed Circuit Board (PCB) relays and are internal to the block.				
-	-	KR3 Horn Relay	-	- P12A Horn - High Note - P12B Horn - Low Note

No.	Device Label Name	Device Assigned Name	Rating	Description
-	-	KR5 Rear Defogger Relay	-	- A9A Outside Rearview Mirror - Driver - A9B Outside Rearview Mirror - Passenger - E18 Rear Defogger Grid
-	-	KR6 Rear Window Washer Pump Relay	-	G24 Windshield Washer Pump
-	-	KR7 Rear Wiper Relay	-	M46 Air Recirculation Door Actuator
-	-	KR11 Windshield Washer Pump Relay	-	G24 Windshield Washer Pump
-	-	KR12B Windshield Wiper Relay	-	- KR12C Windshield Wiper Speed Control Relay - M75 Windshield Wiper Motor
-	-	KR12C Windshield Wiper Speed Control Relay	-	M75 Windshield Wiper Motor
-	-	KR29 A/C Compressor Clutch Relay	-	- G1 A/C Compressor - Q2 A/C Compressor Clutch
-	-	KR33 Auxiliary Heater Coolant Pump Relay	-	Not Used
-	-	KR42L Daytime Running Lamp Relay-Left	-	- E13LA Headlamp Assembly - Left - E13RA Headlamp Assembly - Right
-	-	KR42R Daytime Running Lamp Relay-Right	-	- E13LA Headlamp Assembly - Left - E13RA Headlamp Assembly - Right
-	-	KR46 Front Fog Lamp Relay	-	- E29LF Fog Lamp - Left Front - E29RF Fog Lamp - Right Front
-	-	KR48 Headlamp High Beam Relay	-	- E13LA Headlamp Assembly - Left - E13RA Headlamp Assembly - Right

No.	Device Label Name	Device Assigned Name	Rating	Description
-	-	KR76 Retained Accessory Power Relay	-	- S79D Window Switch - Driver - S79P Window Switch - Passenger - E32 Cigarette Lighter Receptacle
-	-	KR110 Cold Start Fuel Pump Relay	-	Not Used
-	-	KR114 Door Dead Lock Relay	-	Not Used
Note: Items listed below are diagnostic test points for PCB relays				
TP4	-	TP4	-	Not Used
Note: Items listed below are Door Lock/Indicator diagnostic test points for PCB relays				
TP1	-	TP1	-	KR113 Child Security Lock Disable Relay
TP5	-	TP5	-	KR113 Child Security Lock Disable Relay
Note: Items listed below are Wiper/Washer diagnostic test points for PCB relays				
TP3	-	TP3	-	M75 Windshield Wiper Motor
TP8	-	TP8	-	G24 Windshield Washer Pump
TP9	-	TP9	-	M45 Rear Wiper Motor
TP10	-	TP10	-	G24 Windshield Washer Pump
Note: Items listed below are A/C Clutch diagnostic test points for PCB relays				
TP6	-	TP6	-	KR29 A/C Compressor Clutch Relay
Note: Items listed below are Door Lock/Indicator diagnostic test points for PCB relays				
TP2	-	TP2	-	KR42L Daytime Running Lamp Relay- Left
TP7	-	TP7	-	KR42R Daytime Running Lamp Relay- Right

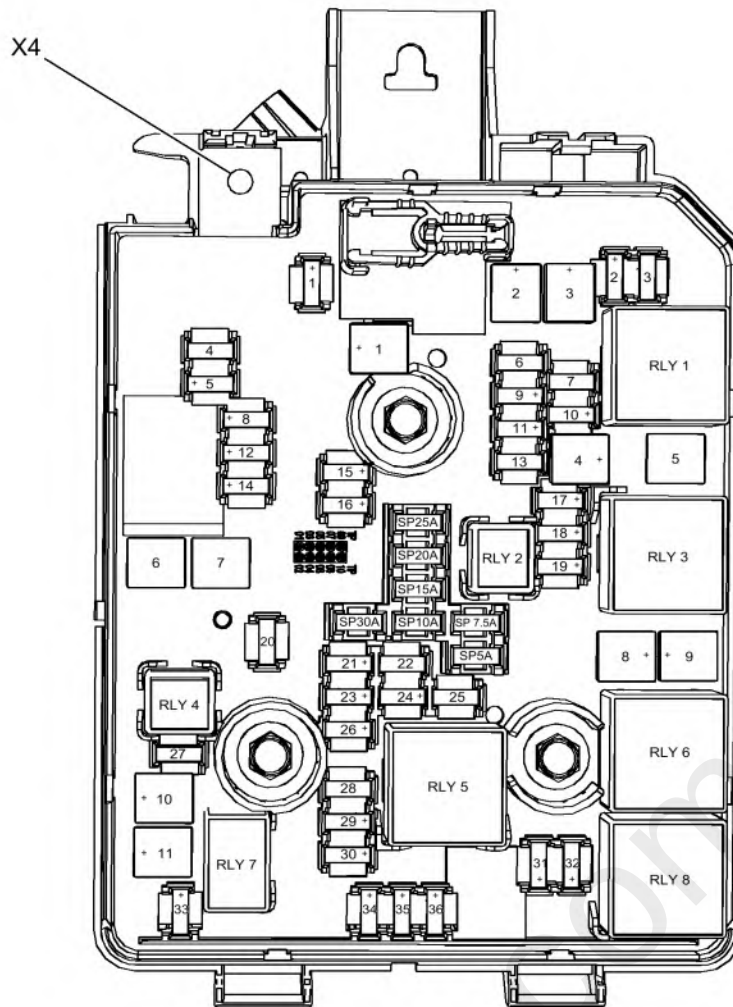


Fig. 2: X50A Fuse Block - Underhood, Top View (Encore with LUV)

Courtesy of GENERAL MOTORS COMPANY

X50A FUSE BLOCK - UNDERHOOD FUSE AND RELAY IDENTIFICATION LEGEND (ENCORE WITH LUV)

No.	Device Label Name	Device Assigned Name	Rating	Description
Mini Fuses				
01	SUNROOF	F1UA	25A	K61 Sunroof Control Module
02	RAIN SENSOR, OSRVM SW, DRIVER WINDOW SW, UGDO	F2UA	7.5A	- B177 Rain/Ambient Light Sensor Module (-UFL) - B224 Multifunction Windshield Sensor (UFL) - S52 Outside Rearview Mirror Switch - S79D Window Switch - Driver - S25 Universal Garage Door Opener
03	VENT SOLENOID	F3UA	5A	Q13 Evaporative Emission Vent Solenoid Valve
04	SPARE	F4UA	25A	Spare

No.	Device Label Name	Device Assigned Name	Rating	Description
05	EBCM PWR	F5UA	30A	K17 Electronic Brake Control Module
06	IBS	F6UA	5A	B110 Battery Sensor Module (KL9)
07	COLUMN LOCK	F7UA	10A	K60 Steering Column Lock Module (N06)
08	TCM PWR	F8UA	15A	K71 Transmission Control Module (MM1)
09	AOS	F9UA	5A	K85 Passenger Presence Module (AL0)
10	ISRVM, REAR VISION, HDLP LEVELING LH/RH, HEADLAMP SW	F10UA	10A	- S30 Headlamp Leveling Switch - M29L Headlamp Leveling Actuator - Left - M29R Headlamp Leveling Actuator - Right - B87 Rearview Camera - A10 Inside Rearview Mirror
11	REAR WIPER	F11UA	20A	- KR7 Rear Wiper Relay - M45 Rear Wiper Motor
12	RR WDW DEFOG	F12UA	25A	E18 Rear Defogger Grid
13	SEAT LUMBAR	F13UA	10A	S65D Seat Lumbar Support Switch - Driver (AG9)
14	OSRVM	F14UA	7.5A	- A9A Outside Rearview Mirror - Driver - A9B Outside Rearview Mirror - Passenger
15	FSCM	F15UA	20A	K38 Chassis Control Module (FHA)
16	SEAT MODULE	F16UA	25A	Heated Seat Memory Module
17	DC to DC, COMPASS	F17UA	10A	- T19 Power Supply Transformer (KL9) - K18 Compass Module

No.	Device Label Name	Device Assigned Name	Rating	Description
18	TCM, ECM	F18UA	5A	- K20 Engine Control Module - K71 Transmission Control Module (MM1)
19	FUEL PUMP	F19UA	20A	- KR23A Fuel Pump Relay - A7 Fuel Pump and Level Sensor Assembly
20	SPARE	F20UA	15A	Spare
21	FAN RLY (AUX BEC)	F21UA	15A	- KR20C Cooling Fan Low Speed Relay - KR20E Cooling Fan Speed Control Relay - KR20F Cooling Fan Relay - KR20P Cooling Fan Medium Speed Relay - KR29 A/C Compressor Clutch Relay
22	SPARE	F22UA	10A	Spare
23	IGNITION COIL / INJECTOR COIL	F23UA	20A	- Q17A Fuel Injector 1 - Q17B Fuel Injector 2 - Q17C Fuel Injector 3 - Q17D Fuel Injector 4 - T8A Ignition Coil 1 - T8B Ignition Coil 2 - T8C Ignition Coil 3 - T8D Ignition Coil 4
24	WASHER PUMP	F24UA	10A	- KR6 Rear Window Washer Pump Relay - KR11 Windshield Washer Pump Relay - G24 Windshield Washer Pump
25	SPARE	F25UA	10A	Spare

No.	Device Label Name	Device Assigned Name	Rating	Description
26	CANISTER PURGE SOL, WATER VALVE SOL, TURBO WASTEGATE SOL, TURBO BYPASS SOL, O2 SENSOR PRE/POST	F26UA	10A	- B52A Heated Oxygen Sensor 1 - B52B Heated Oxygen Sensor 2 - B280 Automatic Transmission Accumulator Solenoid Valve (MM1) - E41 Engine Coolant Thermostat Heater - Q12 Evaporative Emission Purge Solenoid Valve - Q40 Turbocharger Bypass Solenoid Valve - Q42 Turbocharger Wastegate - Q56 Coolant Pump Clutch
27	SPARE	F27UA	15A	Spare
28	ECM PT IGN-3	F28UA	10A	K20 Engine Control Module
29	ECM PT IGN-1 / IGN-2	F29UA	25A	K20 Engine Control Module
30	MAF SENSOR	F30UA	10A	B75C Multifunction Intake Air Sensor
31	HIGH BEAM LH	F31UA	15A	E4E Headlamp - Left High Beam
32	HIGH BEAM RH	F32UA	15A	E4F Headlamp - Right High Beam
33	ECM B+	F33UA	15A	K20 Engine Control Module
34	HORN	F34UA	15A	- P12A Horn - High Note - P12B Horn - Low Note
35	A/C CLUTCH	F35UA	10A	- KR29 A/C Compressor Clutch Relay - G1 A/C Compressor
36	FRONT FOG LAMP	F36UA	15A	- E29LF Fog Lamp - Left Front - E29RF Fog Lamp - Right Front
J-Case Fuses				
1	EBCM PUMP	F1UB	40A	K17 Electronic Brake Control Module

No.	Device Label Name	Device Assigned Name	Rating	Description
2	FRT WIPER	F2UB	30A	- KR12B Windshield Wiper Relay - KR12C Windshield Wiper Speed Control Relay
3	BLOWER	F3UB	40A	- KR32E Blower Motor Relay - M8 Blower Motor
4	IEC R/C	F4UB	30A	X51A Fuse Block - Instrument Panel
5	SPARE	F5UB	40A	Spare
6	NOT USED	F6UB	30A	Not Used
7	STARTER	F7UB	30A	KR27 Starter Relay (KL9+MM1)
8	COOL FAN LOW/MID	F8UB	40A	- KR20C Cooling Fan Low Speed Relay - KR20P Cooling Fan Medium Speed Relay
9	COOL FAN HIGH	F9UB	60A	KR20D Cooling Fan High Speed Relay
10	EVP	F10UB	30A	- KR14 Brake Booster Pump Motor Relay - M9 Brake Booster Pump Motor
11	STARTER	F11UB	40A	- KR27C Starter Pinion Solenoid Actuator Relay (KL9+MM1) - KR27 Starter Relay - (KL9+MM1)

U - Micro Relays

2	FUEL PUMP	KR23A Fuel Pump Relay	-	A7 Fuel Pump and Level Sensor Assembly
4	SPARE	KR150 Relay - Spare	-	Spare

HC-Micro Relays

6	COOL FAN HIGH	KR20D Cooling Fan High Speed Relay	-	KR20D Cooling Fan High Speed Relay
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MINI Relays

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No.	Device Label Name	Device Assigned Name	Rating	Description
1	RUN CRANK	KR73 Ignition Main Relay	-	- F4UB - F7UA - F10UA - F17UA - F18UA - F19UA
3	COOL FAN MID	KR20P Cooling Fan Medium Speed Relay	-	- R10 Cooling Fan Resistor - G10 Cooling Fan Motor
5	PT RELAY	KR75 Engine Controls Ignition Relay	-	- F21UA - F23UA - F26UA - F28UA - F29UA - F30UA
6	COOL FAN HIGH	KR20D Cooling Fan Medium Speed Relay	-	- R10 Cooling Fan Resistor - G10 Cooling Fan Motor
8	COOL FAN LOW	KR20C Cooling Fan Low Speed Relay	-	- R10 Cooling Fan Resistor - G10 Cooling Fan Motor

Note: Relays listed below are non-serviceable Printed Circuit Board (PCB) relays and are internal to the block.

-	-	KR3 Horn Relay	-	- P12A Horn - High Note - P12B Horn - Low Note
-	-	KR5 Rear Defogger Relay	-	- A9A Outside Rearview Mirror - Driver - A9B Outside Rearview Mirror - Passenger - E18 Rear Defogger Grid
-	-	KR6 Rear Window Washer Pump Relay	-	G24 Windshield Washer Pump
-	-	KR7 Rear Wiper Relay	-	M45 Rear Wiper Motor
-	-	KR11 Windshield Washer Pump Relay	-	G24 Windshield Washer Pump

No.	Device Label Name	Device Assigned Name	Rating	Description
-	-	KR12B Windshield Wiper Relay	-	- KR12C Windshield Wiper Speed Control Relay - M75 Windshield Wiper Motor
-	-	KR12C Windshield Wiper Speed Control Relay	-	M75 Windshield Wiper Motor
-	-	KR29 A/C Compressor Clutch Relay	-	G1 A/C Compressor
-	-	KR31 Coolant Pump Relay - Auxiliary	-	Not Used
-	-	KR46 Front Fog Lamp Relay	-	- E29LF Fog Lamp - Left Front - E29RF Fog Lamp - Right Front
-	-	KR48 Headlamp High Beam Relay	-	- E13LA Headlamp Assembly - Left - E13RA Headlamp Assembly - Right
-	-	KR110 Cold Start Fuel Pump Relay	-	Not Used
-	-	KR113 Child Security Lock Disable Relay	-	Not Used

Note: Items listed below are diagnostic test points for PCB relays

TP4	-	TP4	-	Not Used
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Note: Items listed below are Door Lock/Indicator diagnostic test points for PCB relays

TP1	-	TP1	-	KR113 Child Security Lock Disable Relay
TP5	-	TP5	-	KR113 Child Security Lock Disable Relay

Note: Items listed below are Wiper/Washer diagnostic test points for PCB relays

TP3	-	TP3	-	M75 Windshield Wiper Motor
TP8	-	TP8	-	G24 Windshield Washer Pump
TP9	-	TP9	-	M45 Rear Wiper Motor
TP10	-	TP10	-	G24 Windshield Washer Pump

Note: Items listed below are A/C Clutch diagnostic test points for PCB relays

No.	Device Label Name	Device Assigned Name	Rating	Description
TP6	-	TP6	-	• KR29 A/C Compressor Clutch Relay
Note: Items listed below are Door Lock/Indicator diagnostic test points for PCB relays				
TP2	-	TP2	-	• KR42L Daytime Running Lamp Relay- Left
TP7	-	TP7	-	• KR42R Daytime Running Lamp Relay- Right

X50A Fuse Block - Underhood, Wire Entry (Buick)

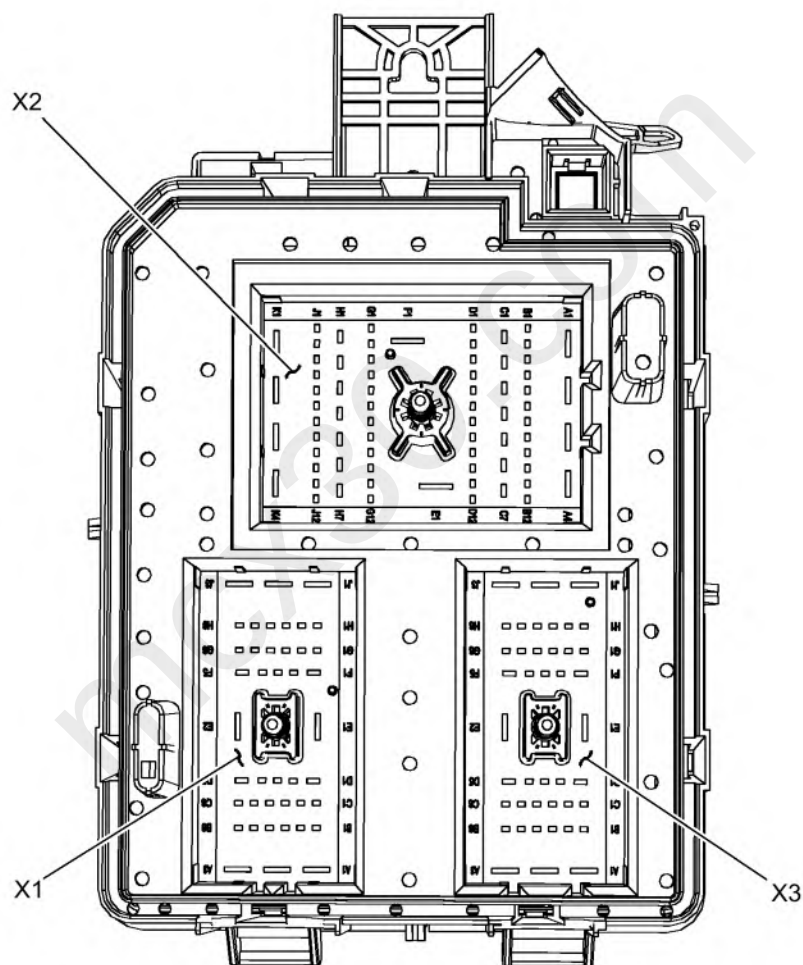


Fig. 3: X50A Fuse Block - Underhood (Bottom)
Courtesy of GENERAL MOTORS COMPANY

X50A Fuse Block - Underhood Label (Buick with LE2)

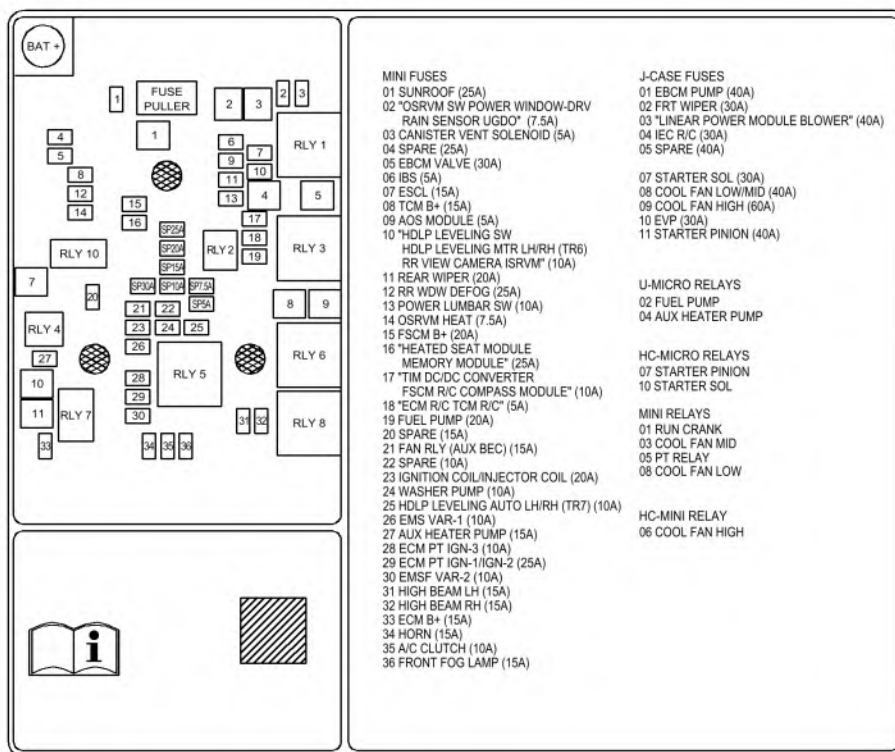


Fig. 4: X50A Fuse Block - Underhood Label (Buick with LE2).
Courtesy of GENERAL MOTORS COMPANY

X50A Fuse Block - Underhood Label (Buick with LUV)

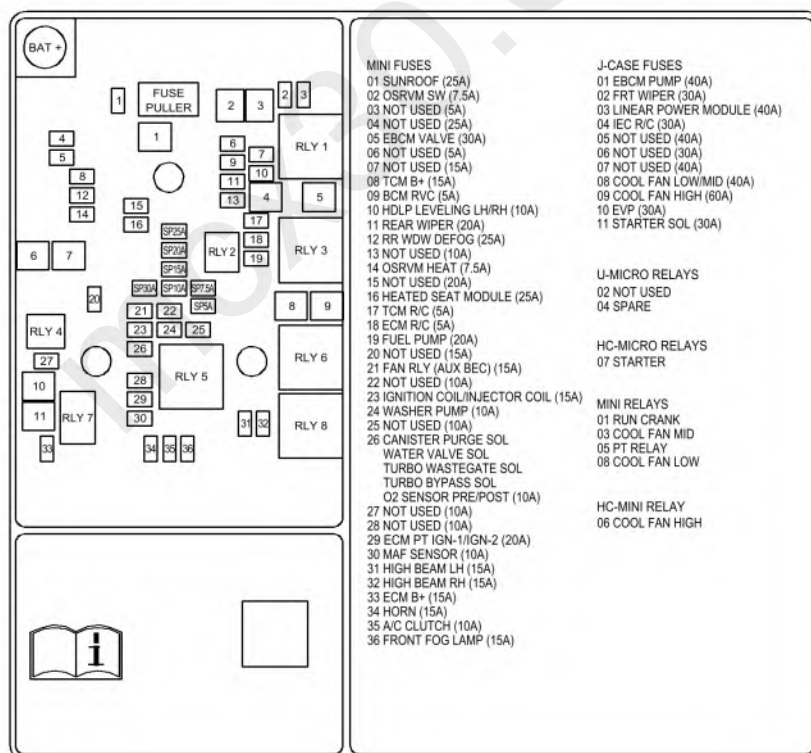
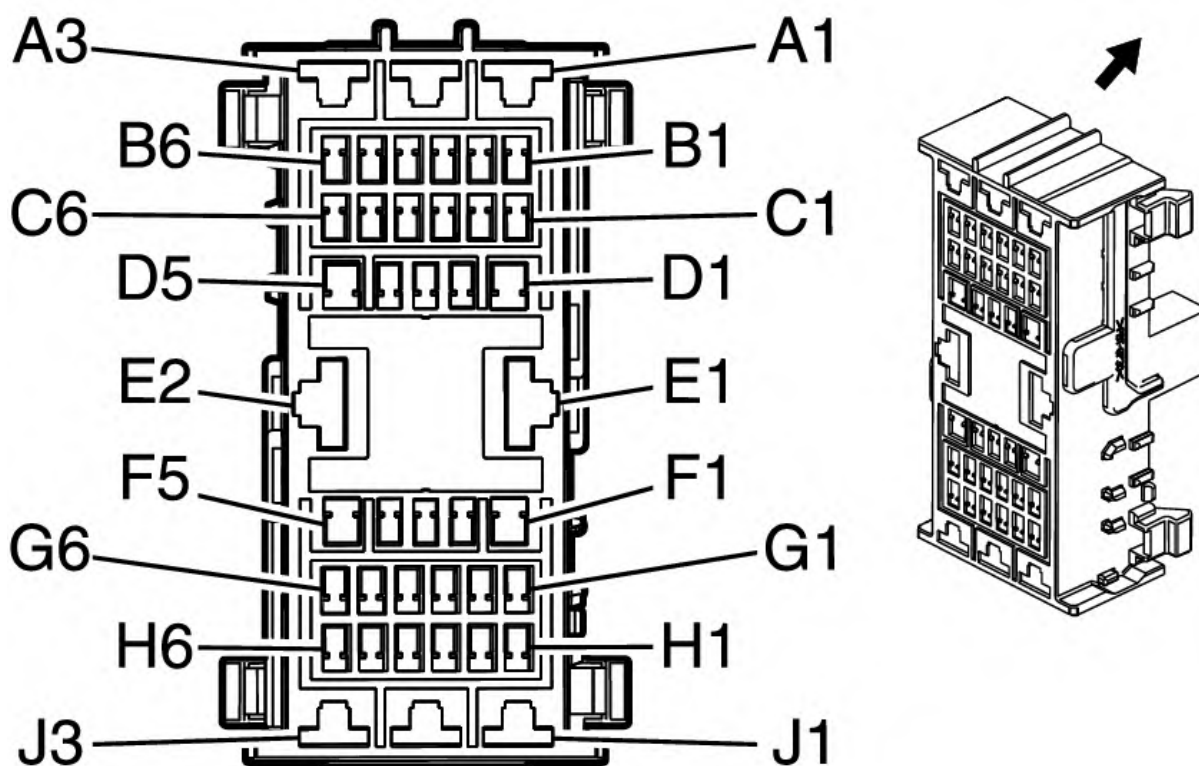


Fig. 5: X50A Fuse Block - Underhood Label (Buick with LUV).
Courtesy of GENERAL MOTORS COMPANY

X50A Fuse Block - Underhood X1



Connector Part Information

- Harness Type: Forward Lamp
- OEM Connector: 13682771
- Service Connector: 13395400
- Description: 42-Way F 150, 280 GT, 630 Metri-Pack, 800 Series (L-GY)

Terminal Part Information

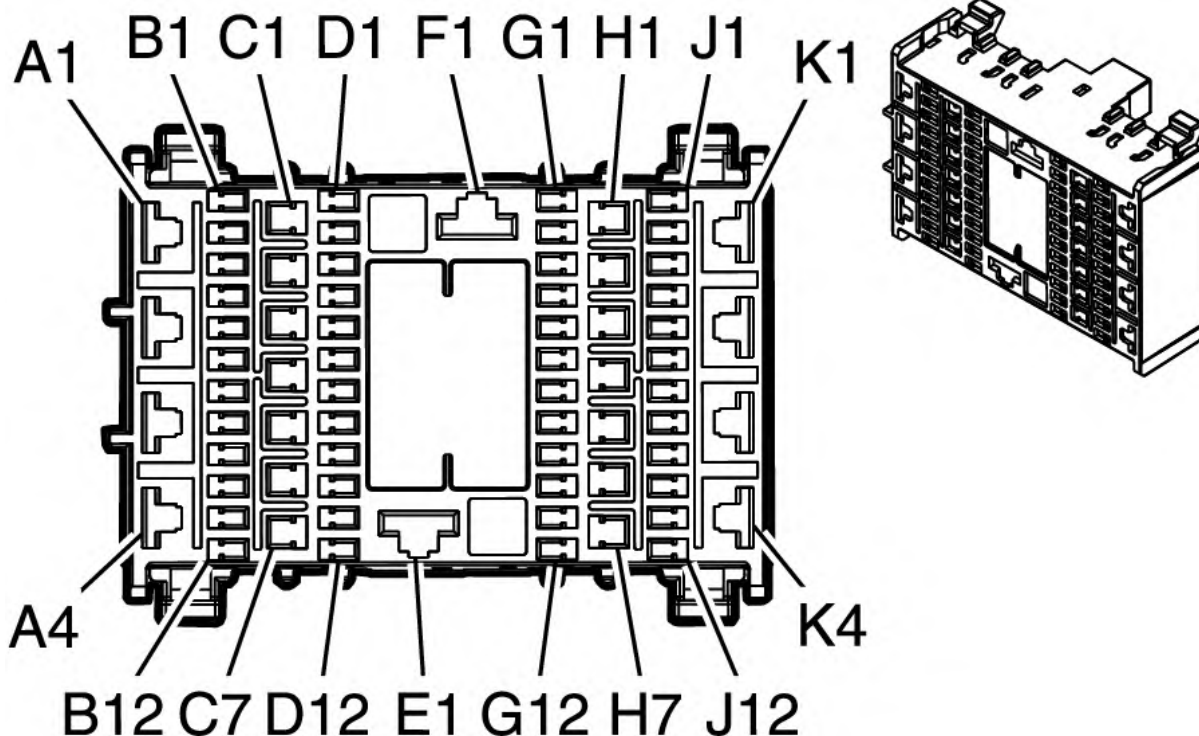
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575718	J-35616-44 (YE)	J-38125-558	12110127	Delphi 19	F	G
II	13575735	J-35616-14 (GN)	J-38125-553	12191812	Delphi 19	C	A
III	13575735	J-35616-14 (GN)	J-38125-553	12191812	Delphi 19	E	C
IV	13575753	J-35616-4A (PU)	J-38125-553	15304711	Delphi 8	E	A
V	13582226	J-35616-42 (RD)	J-38125-11A	12084590	Delphi 3	B	G

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1 - A2	-	-	-	Not Occupied	-	-
A3	4	WH/BU	409	Cooling Fan Motor Control 1	V	-
B1	-	-	-	Not Occupied	-	-
B2	0.5	BN/VT	2234	Front Fog Lamp Control	III	-
B3	0.5	WH	711	Left Headlamp High Beam Control	III	-
B4	0.5	WH	311	Right Headlamp High Beam Control	III	-
B5	0.5	VT/BU	5294	Powertrain Main Relay Fused Supply 5	III	-
B6	0.5	WH	2368	Cooling Fan Control Signal	III	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
C1	-	-	-	Not Occupied	-	-
C2	0.5	GN/VT	335	Low Speed Cooling Fan Relay Control	III	-
C3 - C5	-	-	-	Not Occupied	-	-
C6	0.75	BN/GY	29	Horn Control	II	-
D1	-	-	-	Not Occupied	-	-
D2	0.5	BU/WH	1314	Left Front Turn Signal Lamp Control	III	-
D3	0.5	GY/BN	309	Right Park Lamp Control	III	-
D4	0.5	BN/GY	29	Horn Control	III	-
D5 - E1	-	-	-	Not Occupied	-	-
E2	5	YE	5358	Cooling Fan Motor Control 3	I	-
F1	0.5	RD/GY	2140	Battery Positive Voltage	IV	-
F2	-	-	-	Not Occupied	-	-
F3	0.5	YE	712	Left Headlamp Low Beam Control	III	-
F4	0.5	BN/YE	5128	Cooling Fan Relay Coil Control	III	-
F5 - G1	-	-	-	Not Occupied	-	-
G2	0.5	BU/BN	7539	Right Front DRL Control	III	-
G3	0.5	GY/VT	228	Windshield Washer Pump Control	III	-
G4	-	-	-	Not Occupied	-	-
G5	0.5	GN/VT	1315	Right Front Turn Signal Lamp Control	III	-
G6	0.5	VT/GY	709	Left Park Lamp Control	III	-
H1	0.5	GY/BU	7538	Left Front DRL Control	III	-
H2	0.5	YE	312	Right Headlamp Low Beam Control	III	-
H3	0.5	BU/VT	392	Rear Window Washer Pump Control	III	-
H4 - H6	-	-	-	Not Occupied	-	-
J1	4	GY	532	Cooling Fan Motor Control 2	V	-
J2 - J3	-	-	-	Not Occupied	-	-

X50A Fuse Block - Underhood X2





Connector Part Information

- Harness Type: Body
- OEM Connector: 96947009
- Service Connector: 13395398
- Description: 72-Way F

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575355	J-35616-44 (YE)	J-38125-558	12110127	Delphi 19	F	G
II	13575735	J-35616-14 (GN)	J-38125-553	12191812	Delphi 19	E	C
III	13575753	J-35616-4A (PU)	J-38125-553	15304711	Delphi 8	2	A
IV	13575754	J-35616-4A (PU)	J-38125-553	15304713	Delphi 19	F	D
V	13582223	J-35616-42 (RD)	J-38125-11A	12015870	Delphi 2	A	D
VI	13582225	J-35616-42 (RD)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
VII	13582226	J-35616-42 (RD)	J-38125-11A	12084590	Delphi 3	B	G
VIII	13582242	J-35616-4A (PU)	J-38125-553	Not Available	Not Available	Not Available	Not Available

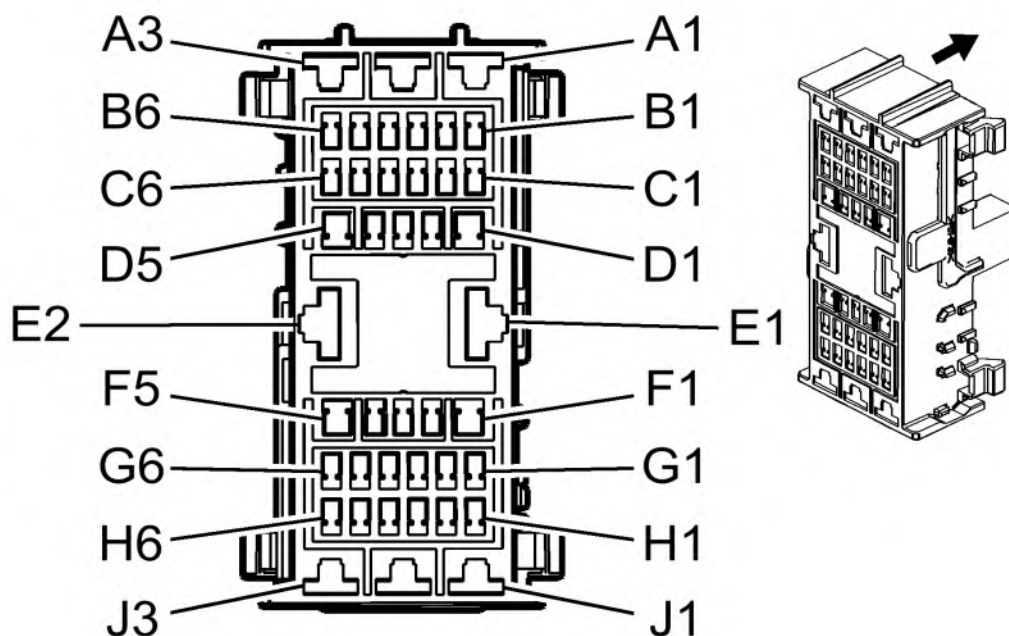
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	-	-	-	Not Occupied	-	-
A2	2	RD/YE	240	Battery Positive Voltage	VI	LUV
A3	2	BN/VT	293	Rear Defog Element Control	V	-
A4	-	-	-	Not Occupied	-	-
B1	0.35	BN/VT	193	Rear Defog Relay Control	II	C67/CJ2/C4P

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
B2	0.5	BN/WH	419	Check Engine Indicator Control	II	-
B3	0.5	GN/GY	465	Fuel Pump Primary Relay Control	II	-
B4 - B9	-	-	-	Not Occupied	-	-
B10	0.5	BN/YE	2267	Mirror Heating Element Control	II	-
B11	0.5	BN/YE	2267	Mirror Heating Element Control	II	-
B12	-	-	-	Not Occupied	-	-
C1	2.5	WH	92	Windshield Wiper Motor High Speed Control	IV	-
C2	-	-	-	Not Occupied	-	-
C3	1	RD/WH	2740	Battery Positive Voltage	III	-
C4	-	-	-	Not Occupied	-	-
C5	2.5	BK	50	Ground	IV	-
C6	1.5	RD/GN	3140	Battery Positive Voltage	VIII	-
C7	1.5	RD/YE	3740	Battery Positive Voltage	VIII	KA1
D1	-	-	-	Not Occupied	-	-
D2	0.35	WH/VT	860	Front Windshield Wiper Switch High Signal	II	-
D3	0.35	GY	91	Windshield Wiper Motor Relay Coil Control	II	-
D4	0.5	YE	712	Left Headlamp Low Beam Control	II	-
D5	-	-	-	Not Occupied	-	-
D6	0.35	YE	5420	Rear Wiper Motor Relay Coil Control	II	-
D7	0.5	YE	312	Right Headlamp Low Beam Control	II	-
D8	0.5	WH/BN	544	DRL Relay Control	II	-
D9	0.5	BK	50	Ground	II	-
D10	-	-	-	Not Occupied	-	-
D11	0.5	VT/YE	5985	Accessory Wakeup Serial Data	II	-
D12	0.5	WH/GN	6385	Starter Enable Relay Control	II	LE2+MM1+KL9
E1	-	RD/VT	2640	Battery Positive Voltage	II	-
F1	2.5	RD/GN	242	Battery Positive Voltage	I	-
G1	-	-	-	Not Occupied	-	-
G2	0.35	GN/WH	2270	Rear Window Washer Relay Control	II	-
G3	0.5	BK	50	Ground	II	-
G4	0.5	WH/BN	544	DRL Relay Control	II	-
G5	0.5	GN/VT	1315	Right Front Turn Signal Lamp Control	II	DGJ/DLS
G6	0.5	BU/WH	1314	Left Front Turn Signal Lamp Control	II	DGJ/DLS
G7	0.35	BN/WH	1317	Fog Lamp Relay Control	II	-
G8	0.5	WH/BU	6311	Cruise/ETC/TCC Brake Signal	II	-
G9	0.35	BN/GY	2268	Windshield Washer Relay Control	II	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
G10	0.35	BN/WH	28	Horn Relay Control	II	-
G11	0.35	BN/VT	1969	Headlamp High Beam Relay Control	II	-
G12	-	-	-	Not Occupied	-	-
H1	1	BK	50	Ground	III	-
H2	2.5	YE/BN	95	Windshield Wiper Motor Low Speed Control	IV	-
H3	1	BU	393	Rear Window Wiper Motor Control	III	-
H4	1	RD/BU	3940	Battery Positive Voltage	III	-
H5	1	BK	50	Ground	III	-
H6 - H7	-	-	-	Not Occupied	-	-
J1	-	RD/BU	2540	Battery Positive Voltage	II	-
	-	RD/VT	6340	Battery Positive Voltage	II	-
	0.5	RD/GN	2440	Battery Positive Voltage	II	-
J2	0.35	RD/YE	3040	Battery Positive Voltage	II	-
J3	0.5	RD/BU	3240	Battery Positive Voltage	II	-
J4	0.35	RD/YE	1802	Battery Positive Voltage	II	-
J5	0.5	GY/BN	309	Right Park Lamp Control	II	-
J6	0.5	VT/GY	709	Left Park Lamp Control	II	-
J7	0.5	BU/VT	807	OFF /Accessory Ignition Voltage	II	-
J8	0.5	GN/VT	5199	Run/Crank Relay Coil Control	II	-
J9 - J10	-	-	-	Not Occupied	-	-
J11	0.5	VT/GN	839	Run/Crank Ignition 1 Voltage	II	-
J12	-	VT/GY	539	Run/Crank Ignition 1 Voltage	II	-
	0.5	VT/GY	539	Run/Crank Ignition 1 Voltage	II	-
K1	4	RD/BU	540	Battery Positive Voltage	VII	C67/CJ2
	4	RD/BU	540	Battery Positive Voltage	VII	C67/CJ2/C4P
K2 - K3	-	-	-	Not Occupied	-	-
K4	1.5	VT/GN	39	Run/Crank Ignition 1 Voltage	V	-

X50A Fuse Block - Underhood X3





Connector Part Information

- Harness Type: Engine
- OEM Connector: 13682770
- Service Connector: 13395399
- Description: 42-Way F 150, 280 GT, 630 Metri-Pack, 800 Series (BK)

Terminal Part Information

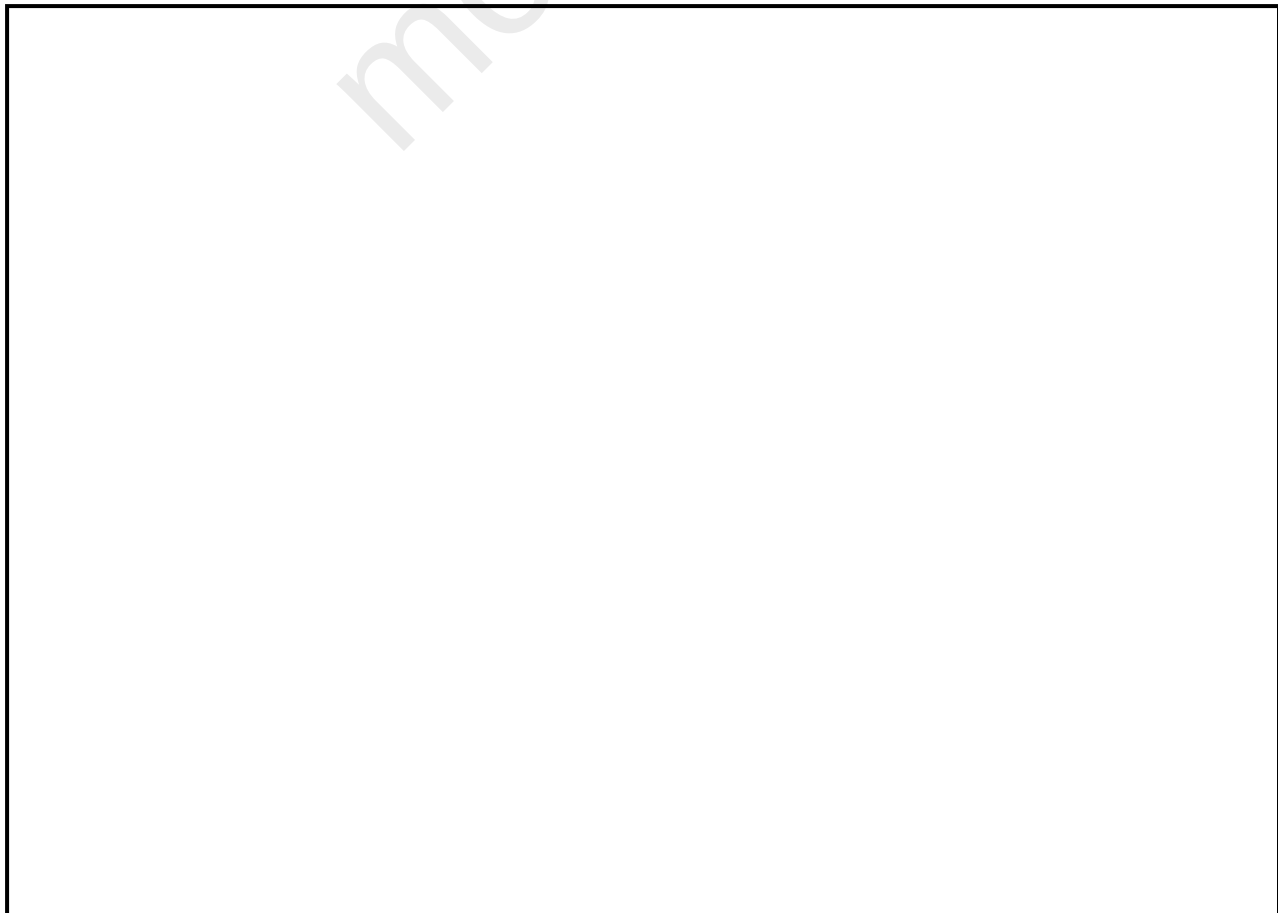
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575735	J-35616-14 (GN)	J-38125-553	12191812	Delphi 19	C	A
II	13575735	J-35616-14 (GN)	J-38125-553	12191812	Delphi 19	E	C
III	13575753	J-35616-4A (PU)	J-38125-553	15304711	Delphi 8	2	A
IV	13575754	J-35616-4A (PU)	J-38125-553	15304713	Delphi 19	F	D
V	13579922	J-35616-44 (YE)	J-38125-558	12065915	Delphi 5	A	D
VI	13582223	J-35616-42 (RD)	J-38125-11A	12015870	Delphi 2	A	D
VII	13582225	J-35616-42 (RD)	J-38125-11A	Not Available	Not Available	Not Available	Not Available

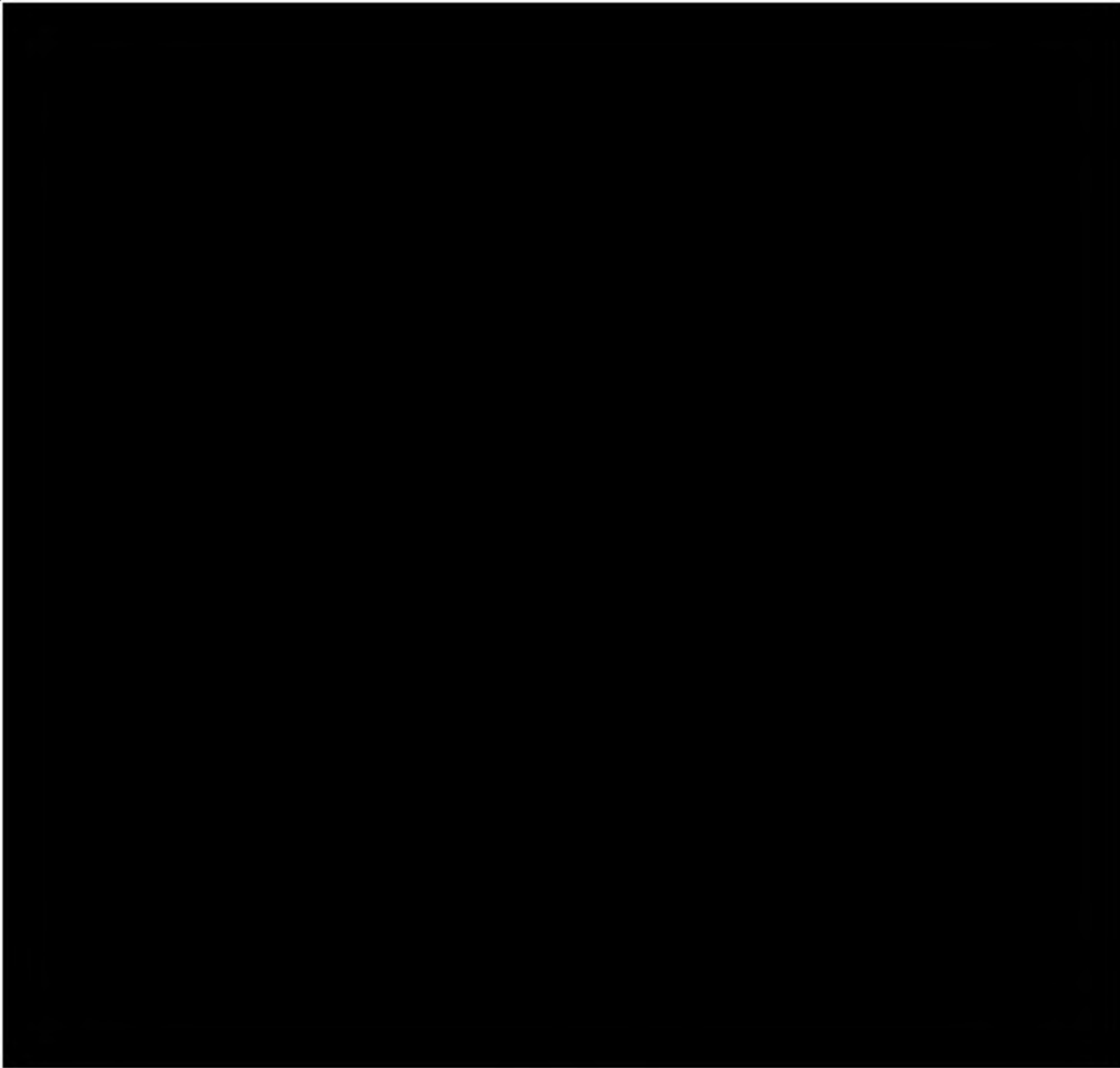
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	-	-	-	Not Occupied	-	-
A2	2.5 1.5	YE/GN YE	4358 6	Starter Pinion Solenoid Voltage Starter Solenoid Crank Ignition Voltage	VII VI	LE2 LUV
A3 - B1	-	-	-	Not Occupied	-	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
B2	0.5 0.5	YE/VT YE/BK	4325 625	Starter Pinion Solenoid Relay Control Starter Enable Relay Control	II II	LE2+MM1+KL9 LUV
B3	0.5 0.5	BK BK	150 150	Ground Ground	II II	LE2 LUV
B4	0.5	WH/GY	459	A/C Compressor Clutch Relay Control	II	-
B5	0.5	BN/GN	59	A/C Compressor Clutch Control	II	-
B6	0.75 0.5	VT/BU VT/BU	5294 5294	Powertrain Main Relay Fused Supply 5 Powertrain Main Relay Fused Supply 5	I II	LE2 LUJ
C1	0.5 0.75	RD/WH RD/WH	140 140	Battery Positive Voltage Battery Positive Voltage	II I	LE2 LUV
C2	0.75	RD/VT	340	Battery Positive Voltage	I	MM1-KL9
C3	-	-	-	Not Occupied	-	-
C4	0.5 0.5	BN/YE BN/YE	473 473	High Speed Cooling Fan Relay Control High Speed Cooling Fan Relay Control	II II	LE2 LUV
C5	0.5	GN/VT	335	Low Speed Cooling Fan Relay Control	II	-
C6	-	-	-	Not Occupied	-	-
D1	2.5 0.75	VT/BU VT/BU	5290 5290	Powertrain Main Relay Fused Supply 1 Powertrain Main Relay Fused Supply 1	IV III	LE2 LUJ
D2	0.5 0.5	YE YE	5991 5991	Powertrain Relay Coil Control Powertrain Relay Coil Control	II II	LE2 LUV
D3	1 0.75	VT/BU VT/BU	5293 5293	Powertrain Main Relay Fused Supply 4 Powertrain Main Relay Fused Supply 4	I I	LE2 LUJ
D4	0.75	VT/BU	5292	Powertrain Main Relay Fused Supply 3	I	LE2
D5	0.75	VT/BU	5290	Powertrain Main Relay Fused Supply 1	III	-
E1	1.5	RD/VT	2640	Battery Positive Voltage	V	LUV
E2 - F2	-	-	-	Not Occupied	-	-
F3	0.5 0.5	BN/YE BN/YE	473 473	High Speed Cooling Fan Relay Control High Speed Cooling Fan Relay Control	II II	LE2 LUV
F4	-	-	-	Not Occupied	-	-
F5	1 0.75	VT/BU VT/BU	5291 5291	Powertrain Main Relay Fused Supply 2 Powertrain Main Relay Fused Supply 2	III III	LE2 LUJ
G1	0.5	GY/BK	3865	Heater Loop Auxiliary Pump Relay Control	II	LE2+KL9+ (MAH/MBC/MCX)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
G2	0.5	BN/WH	419	Check Engine Indicator Control	II	LE2
	0.5	BN/WH	419	Check Engine Indicator Control	II	LUV
G3	0.5	GN/GY	465	Fuel Pump Primary Relay Control	II	-
G4	0.5	WH/BU	6311	Cruise/ETC/TCC Brake Signal	II	-
G5	0.5	VT/GY	139	Run/Crank Ignition 1 Voltage	II	LE2
	0.5	VT/GY	139	Run/Crank Ignition 1 Voltage	II	LUV
	0.5	VT/BK	1239	Run/Crank Ignition 1 Voltage	II	MM1
G6	-	-	-	Not Occupied	-	-
H1	0.5	YE/BK	625	Starter Enable Relay Control	II	LE2+MM1+KL9
H2	-	-	-	Not Occupied	-	-
H3	0.75	GN	5543	Auxiliary Heater Pump Relay Contact Control	I	LE2+KL9+ (MAH/MBC/MCX)
H4	-	-	-	Not Occupied	-	-
H5	0.5	VT/YE	5985	Accessory Wakeup Serial Data	II	LE2+MM1
	0.5	VT/YE	5985	Accessory Wakeup Serial Data	II	LUV
H6	-	-	-	Not Occupied	-	-
J1	1.5	YE	6	Starter Solenoid Crank Ignition Voltage	VI	LE2
J2 - J3	-	-	-	Not Occupied	-	-

X50A Fuse Block - Underhood X4





Connector Part Information

- Harness Type: Battery Cable
- OEM Connector: CBR65-012
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way Ring Terminal

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	16	RD/WH	4042	Battery Positive Voltage	I	-

X50D Fuse Block - Battery, Top View (Buick)

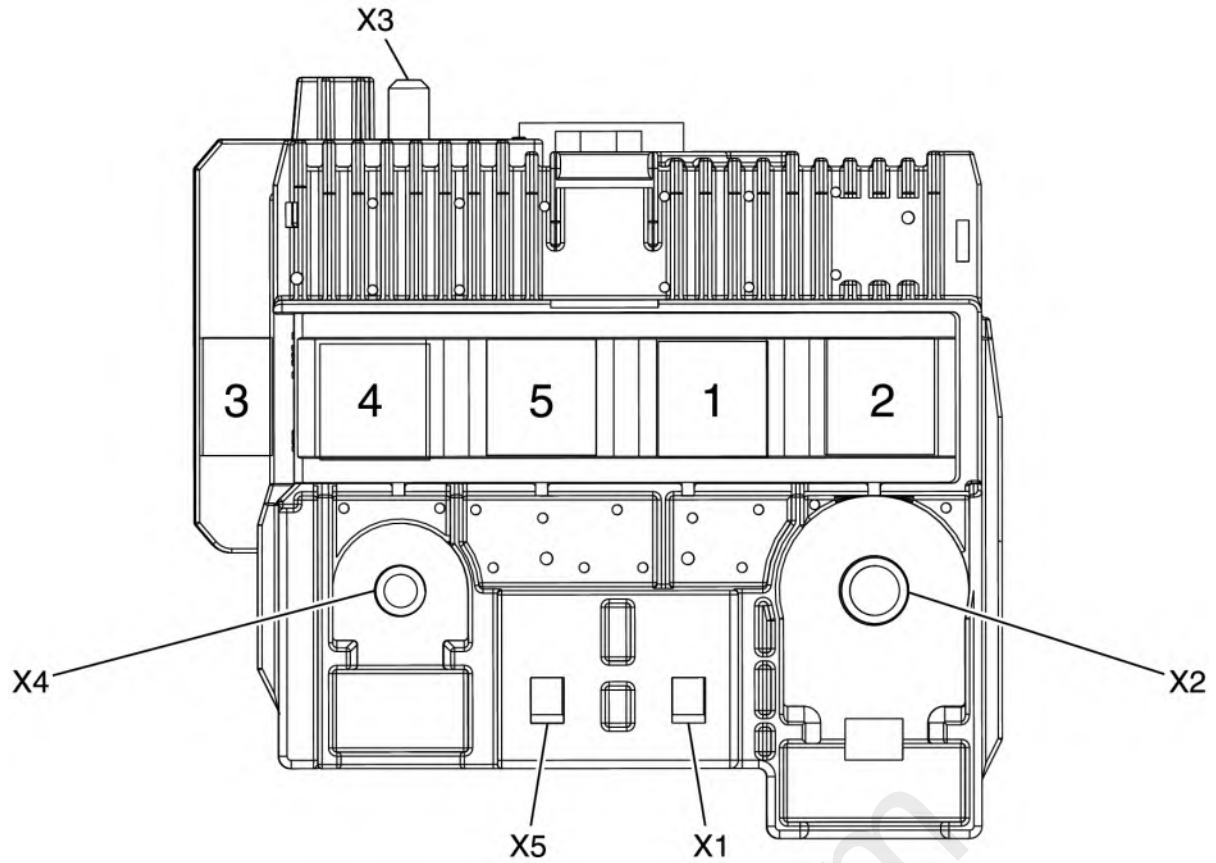


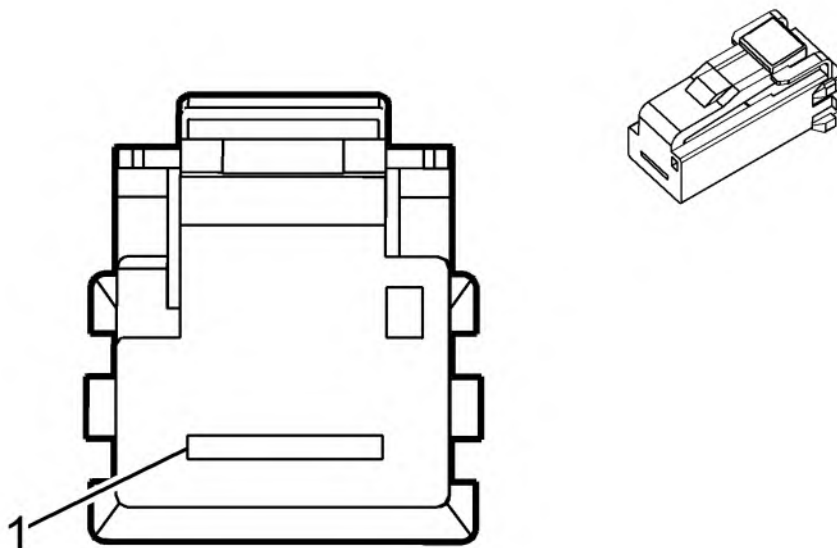
Fig. 6: X50D Fuse Block - Battery (Top).
 Courtesy of GENERAL MOTORS COMPANY

X50D FUSE BLOCK - BATTERY FUSE IDENTIFICATION

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
1	-	F1BA	80A	K43 Power Steering Control Module
2	-	F2BA	400A (-KL9) 430A (KL9)	M64 Starter Motor
3	-	F3BA	80A (-KL9) 100A (KL9)	X51A Fuse Block - Instrument Panel
4	-	F4BA	150A	X50A Fuse Block - Underhood
5	-	F5BA	80A	X53A Fuse Block - Rear Body

X50D Fuse Block - Battery X1





Connector Part Information

- Harness Type: Body
- OEM Connector: MG610658
- Service Connector: Service by Harness - See Part Catalog
- Description: 1-Way F 375 Series (BK)

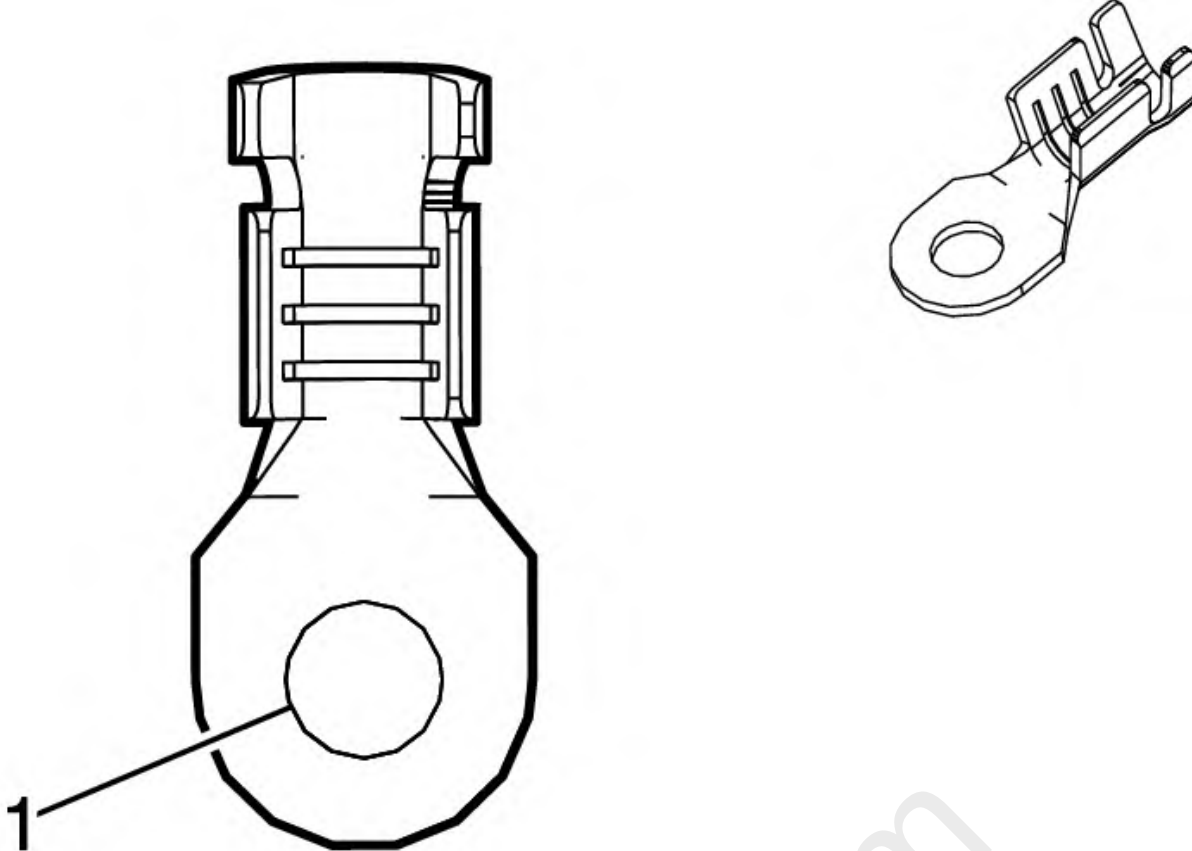
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-40 (BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	8	RD/BN	202	Battery Positive Voltage	I	-

X50D Fuse Block - Battery X2





Connector Part Information

- Harness Type: Battery Cable
- OEM Connector: CBR57-012
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way Ring Terminal

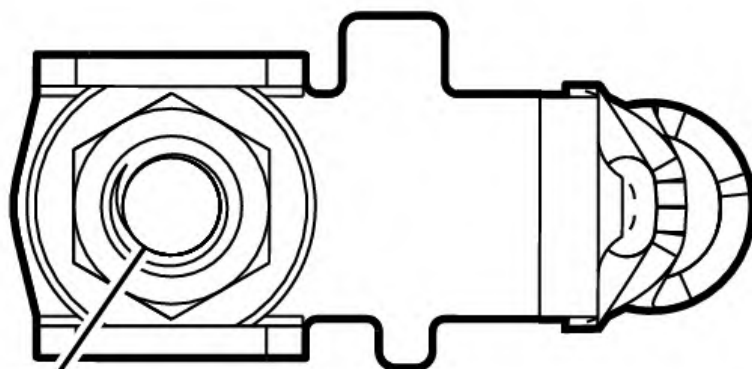
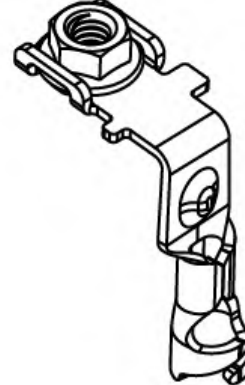
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	20	RD/YE	2	Battery Positive Voltage	I	-
	25	RD/YE	2	Battery Positive Voltage	I	-

X50D Fuse Block - Battery X3





A

Connector Part Information

- Harness Type: Body
- OEM Connector: 13869290
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way Ring Terminal

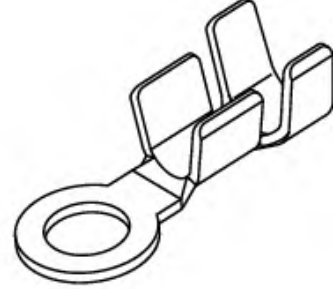
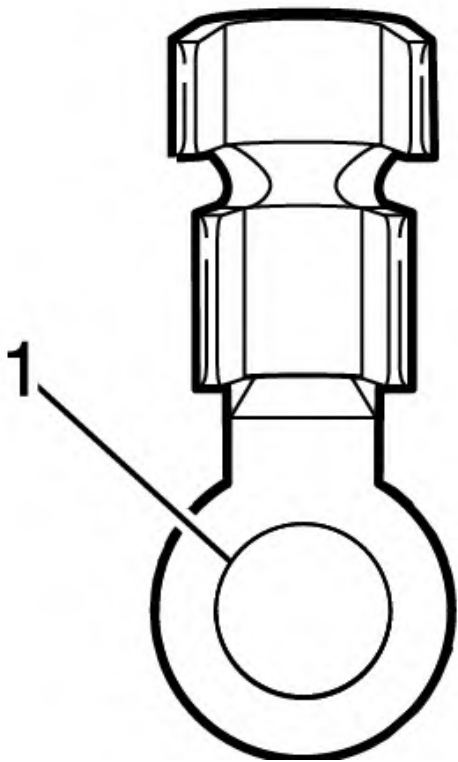
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	10	RD/BU	42	Battery Positive Voltage	I	-

X50D Fuse Block - Battery X4





Connector Part Information

- Harness Type: Battery Cable
- OEM Connector: PTS120-4
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way Ring Terminal

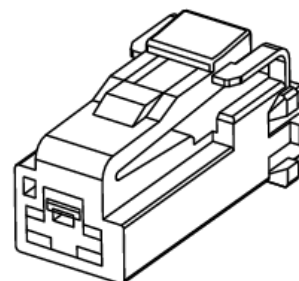
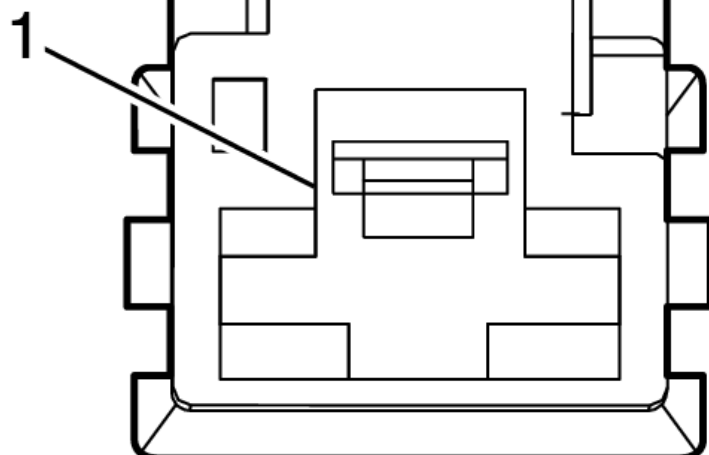
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	16	RD/WH	4042	Battery Positive Voltage	I	-

X50D Fuse Block - Battery X5





Connector Part Information

- Harness Type: Body
- OEM Connector: MG613689-5
- Service Connector: Service by Harness - See Part Catalog
- Description: 1-Way F 375 Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-40 (BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	8	RD/GY	142	Battery Positive Voltage	I	(UQA/UQG/F46/KI6)/(KL9)

X51A Fuse Block - Instrument Panel, Top View (Buick)

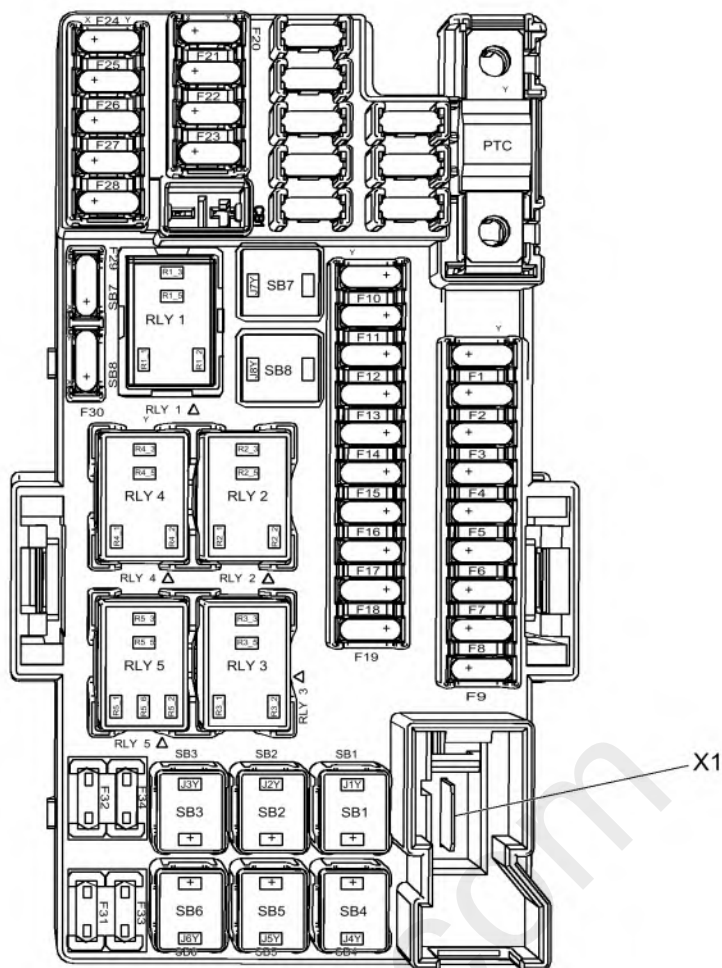


Fig. 7: X51A Fuse Block - Instrument Panel, Top View
 Courtesy of GENERAL MOTORS COMPANY

**X51A FUSE BLOCK - INSTRUMENT PANEL FUSE AND RELAY IDENTIFICATION
 LEGEND**

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
F1	BCM 1	F1DA	15A	• K9 Body Control Module
F2	BCM 2	F2DA	15A	• K9 Body Control Module
F3	BCM 3	F3DA	15A	• K9 Body Control Module
F4	BCM 4	F4DA	15A	• K9 Body Control Module
F5	BCM 5	F5DA	15A	• K9 Body Control Module
F6	BCM 6	F6DA	15A	• K9 Body Control Module
F7	BCM 7	F7DA	15A	• K9 Body Control Module

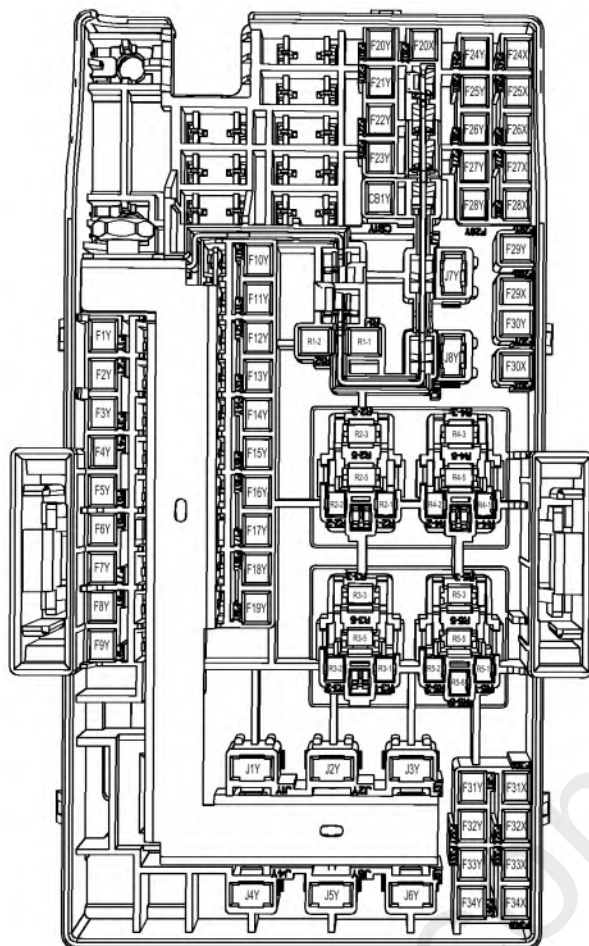
No.	Device Label Name	Device Assigned Name	Rating	Description
F8	BCM 8	F8DA	30A	K9 Body Control Module
F9	DLIS	F9DA	2A	S39 Ignition Switch (-BTM)
F10	SDM B+	F10DA	10A	K36 Inflatable Restraint Sensing and Diagnostic Module
F11	DLC	F11DA	7.5A	X84 Data Link Connector
F12	HVAC MDL HVAC ICSI	F12DA	10A	- A26 HVAC Controls - K33 HVAC Control Module
F13	L/GATE RLY	F13DA	10A	KR95A Liftgate Unlatch Relay
F14	CGM	F14DA	20A	K56 Serial Data Gateway Module
F15	LDW MDL ISRVM	F15DA	10A	- A10 Inside Rearview Mirror - K109 Frontview Camera Module (UFL)
F16	SPARE	F16DA	10A	Spare
F17	EPS LOCK	F17DA	10A	K60 Steering Column Lock Module (N06)
F18	PAS_SMZA	F18DA	5A	- K182 Parking Assist Control Module - B218L Side Object Sensor Module - Left - B218R Side Object Sensor Module - Right
F19	BCM RVC	F19DA	5A	K9 Body Control Module
F20	CLOCK_SPRING	F20DA	2A	- S70L Steering Wheel Controls Switch Left (K34) - S70R Steering Wheel Controls Switch Right

No.	Device Label Name	Device Assigned Name	Rating	Description
F21	AC_PWR_PRNDL	F21DA	10A	- T6 Power Inverter Module (KI6) - X81 Accessory Power Receptacle - 110V AC (KI6)
F22	APO_DC_FRT	F22DA	20A	E32 Cigarette Lighter Receptacle
F23	SPARE	F23DA	10A	Spare
F24	SPARE	F24DA	20A	Spare
F25	ONS_GLONAS	F25DA	10A	- K73 Telematics Communication Interface Control Module (UE1) - K105 Telematic Vehicle Localization and Immobilization Control Module (UG7)
F26	EVP	F26DA	10A	B19C Brake Booster Vacuum Switch (LUV/2H0)
F27	IPC_PTC_CL_RLAD	F27DA	10A	P16 Instrument Cluster
F28	TRAILER_AOS	F28DA	10A	X88 Trailer Connector (RZW)
F29	SPARE	F29DA	10A	Spare
F30	DC_DC_400W	F30DA	10A	- K71 Transmission Control Module (MM1) - T19 Power Supply Transformer (KL9)
F31	IPC B+	F31DA	5A	P16 Instrument Cluster
F32	SILBOX_AUDIO_NAV_AUX JACK	F32DA	15A	- A11 Radio - X83 Auxiliary Audio Input
F33	TRAILER FEED 1	F33DA	20A	X88 Trailer Connector (RZW)

No.	Device Label Name	Device Assigned Name	Rating	Description
F34	PEPS	F34DA	7.5A	K84 Keyless Entry Control Module (BTM)
CB1	SPARE	CB1DA	20A	Not Used
SB1	PTC_1 LPM	F1DB	40A	FR83A Electrical Auxiliary Heater Relay 1 (C32)
SB2	PTC_2	F2DB	60A	FR83B Electrical Auxiliary Heater Relay 2 (C32)
SB3	PWR WNDW DW MTR FRT	F3DB	30A	- M74D Window Motor - Driver - S79P Window Switch - Passenger
SB4	PWR WNDW DW MTR REAR	F4DB	30A	- S79LR Window Switch - Left Rear - S79RR Window Switch - Right Rear
SB5	LOGISTIC MODE RLY_DC/DC	F5DB	30A	- KR104A Battery Saver Relay 1 - T19 Power Supply Transformer (MM3)
SB6	PWR_SEAT_SW_DR	F6DB	30A	S64D Seat Adjuster Switch - Driver (AG9)
SB7	SPARE	F7DB	25A	Spare
SB8	TIM_X2	F8DB	25A	K101 Trailer Interface Control Module (RZW)

Relays

RLY 1	ACC/RAP RELAY	KR76 Retained Accessory Power Relay	35A	- CB1DA - F21DA - F22DA - F23DA - F7DB - F8DB
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Connector Part Information

- Harness Type: Instrument Panel
- OEM Connector: 95183112
- Service Connector: Not Available
- Description: Not Available

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not Available	Not Available	Not Available

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
F1Y	0.5	RD/GN	5140	Battery Positive Voltage	I	-
F2Y	0.5	RD/BU	5240	Battery Positive Voltage	I	-
F3Y	0.5	RD/VT	5340	Battery Positive Voltage	I	-
F4Y	0.5	RD/WH	5440	Battery Positive Voltage	I	-
F5Y	0.5	RD/GY	5540	Battery Positive Voltage	I	-
F6Y	0.5	RD/VT	5640	Battery Positive Voltage	I	-
F7Y	0.5	RD/WH	5740	Battery Positive Voltage	I	-
F8Y	1.5	RD/YE	5840	Battery Positive Voltage	I	-
F9Y	0.35	RD/YE	5040	Battery Positive Voltage	I	-
F10Y	0.35	RD/GN	1202	Battery Positive Voltage	I	-
F11Y	0.35	RD/BN	5940	Battery Positive Voltage	I	-
F12Y	0.35	RD/BN	440	Battery Positive Voltage	I	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
F13Y	0.5	RD/GY	3540	Battery Positive Voltage	I	-
F14Y	0.35	RD/BN	1140	Battery Positive Voltage	I	UD7
F15Y	-	-	-	Not Used	-	-
F16Y	-	-	-	Not Used	-	-
F17Y	-	-	-	Not Used	-	-
F18Y	0.35	RD/GN	1840	Battery Positive Voltage	I	-
F19Y	0.35	RD/GY	2840	Battery Positive Voltage	I	-
F20X	0.5	YE	6817	LED Backlight Dimming Control	I	-
F20Y	0.5	YE	6817	LED Backlight Dimming Control	I	-
F21Y	0.35	VT	801	Retained Accessory Power Fuse Supply Voltage	I	-
F22Y	1	VT	1301	Retained Accessory Power Fuse Supply Voltage	I	-
F23Y	-	-	-	Not Used	-	-
F24X	-	-	-	Not Used	-	-
F24Y	-	-	-	Not Used	-	-
F25X	-	-	-	Not Used	-	-
F25Y	-	-	-	Not Used	-	-
F26X	1.5	VT/GN	39	Run/Crank Ignition 1 Voltage	I	-
F26Y	0.35	VT/WH	639	Run/Crank Ignition 1 Voltage	I	-
F27X	1.5	VT/GN	39	Run/Crank Ignition 1 Voltage	I	-
F27Y	0.35	VT/GN VT/BK	1739 3	Run/Crank Ignition 1 Voltage Run/Crank Ignition 1 Voltage	I	-
F28X	1.5	VT/GN	39	Run/Crank Ignition 1 Voltage	I	-
F28Y	0.35	VT/WH	239	Run/Crank Ignition 1 Voltage	I	-
F29X	-	-	-	Not Used	-	-
F29Y	-	-	-	Not Used	-	-
F30X	-	-	-	Not Used	-	-
F30Y	-	-	-	Not Used	-	-
F31X	1.5	GY/BN	3761	Infotainment Regulated Supply Voltage	I	-
F31Y	0.35	RD/BU	302	Battery Positive Voltage	I	-
F32X	1.5	GY/BN	3761	Infotainment Regulated Supply Voltage	I	-
F32Y	0.5	RD/GY	642	Battery Positive Voltage	I	-
F33X	1.5	GY/BN	3761	Infotainment Regulated Supply Voltage	I	-
F33Y	-	-	-	Not Used	-	-
F34X	1.5	GY/BN	3761	Infotainment Regulated Supply Voltage	I	-
F34Y	-	-	-	Not Used	-	-
J1Y	4	RD/BU	540	Battery Positive Voltage	I	C32
J2Y	6	RD/WH	640	Battery Positive Voltage	I	C32
J3Y	1.5	RD/GN	1540	Battery Positive Voltage	I	AXG
J4Y	-	-	-	Not Used	-	-
J5Y	1.5	RD/GN	6140	Battery Positive Voltage	I	-
J6Y	-	-	-	Not Used	-	-
J7Y	1.5	VT	1001	Retained Accessory Power Fuse Supply Voltage	I	-
J8Y	1.5	VT	1002	RAP Fuse Supply Voltage	I	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
R1_1	0.35	GY/VT	755	RAP Relay Coil Control	I	-
R1_2	0.5	BK	1550	Ground	I	-
R2_1	0.5	YE	5704	Endgate Latch Relay Coil Control	I	-
R2_2	0.5	GN/BN	5706	Endgate Latch Relay Supply Voltage	I	-
R2_3	0.5	RD/GY	3540	Battery Positive Voltage	I	-
R2_5	0.5	BU/WH	6128	Rear Closure Unlatch Motor Unlatch Control	I	-
R3_1	-	-	-	Not Used	-	-
R3_2	-	-	-	Not Used	-	-
R3_3	-	-	-	Not Used	-	-
R3_5	-	-	-	Not Used	-	-
R4_1	0.5	BK	1550	Ground	I	-
R4_2	0.35	BN/VT	5486	Run Relay Coil Control	I	-
R4_3	4	RD/GN	6140	Battery Positive Voltage	I	-
R4_5	3	VT/BN	341	Run Ignition 3 Voltage	I	-
R5_1	0.35	VT/BU	3264	Logistic Mode Relay Close Control	I	-
R5_2	0.35	GY/VT	3263	Logistic Mode Relay Open Control	I	-
R5_3	1.5	RD/GN	6140	Battery Positive Voltage	I	-
R5_5	1.5	RD/VT	6340	Battery Positive Voltage	I	-
R5_6	0.5	BK	1550	Ground	I	-

X51A Fuse Block - Instrument Panel Label (Buick)

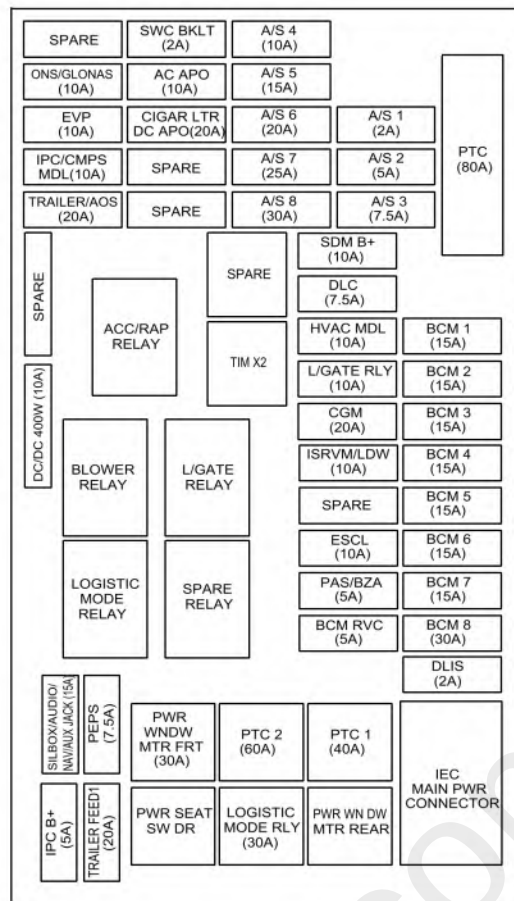
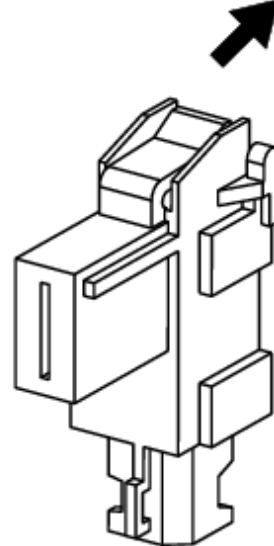
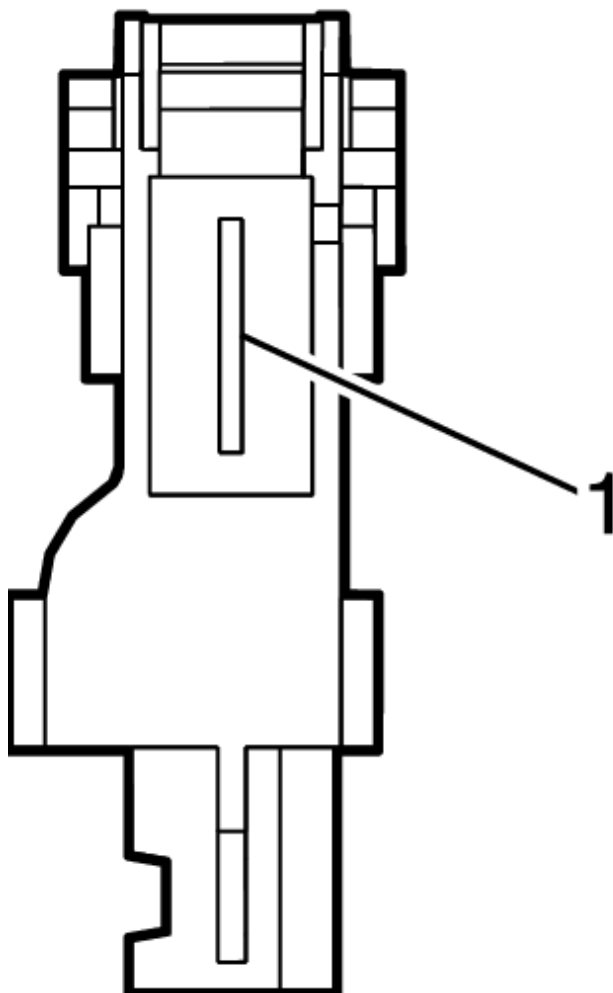


Fig. 8: X51A Fuse Block - Instrument Panel Label
 Courtesy of GENERAL MOTORS COMPANY

X51A Fuse Block - Instrument Panel X1





Connector Part Information

- Harness Type: Body
- OEM Connector: 3B1230100
- Service Connector: Service by Harness - See Part Catalog
- Description: 1-Way F 120 Series (BK)

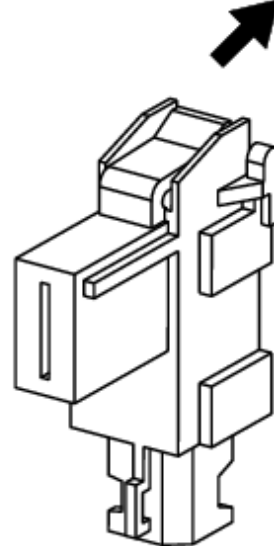
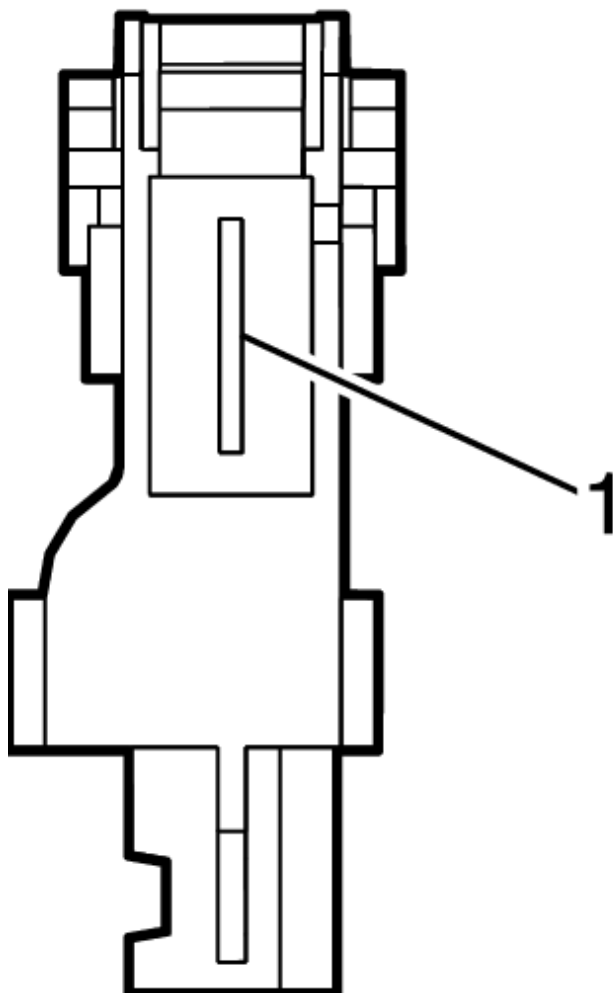
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-42 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	10	RD/BU	42	Battery Positive Voltage	I	LUV/LE2

X51A Fuse Block - Instrument Panel X1





Connector Part Information

- Harness Type: Body
- OEM Connector: 3B1230100
- Service Connector: Service by Harness - See Part Catalog
- Description: 1-Way F 120 Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-42 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	10	RD/BU	42	Battery Positive Voltage	I	-

X53A Fuse Block - Rear Body, Top View (Buick)

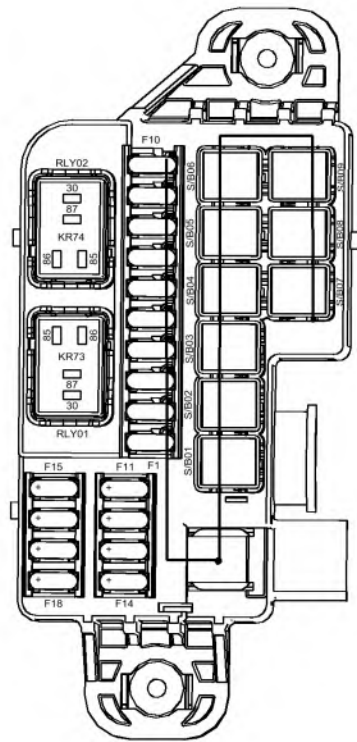


Fig. 9: X53A Fuse Block -- Rear Body Usage --Top View
 Courtesy of GENERAL MOTORS COMPANY

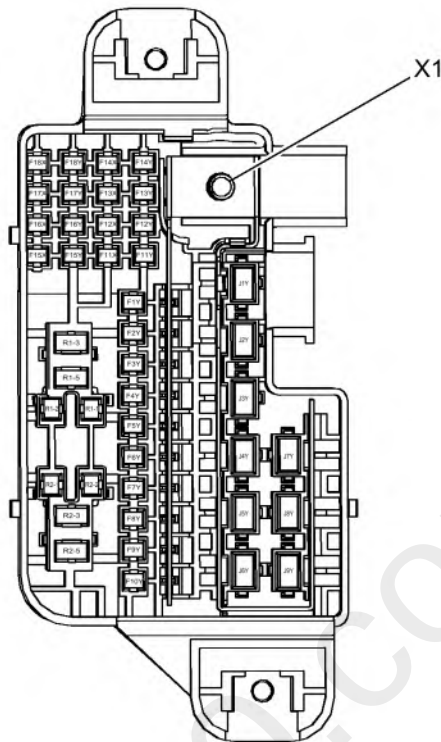
X53A FUSE BLOCK -- REAR BODY FUSE AND RELAY IDENTIFICATION LEGEND

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
F1	NOT USED	F1RA	15A	• Not Used
F2	NOT USED	F2RA	15A	• Not Used
F3	AMPLIFIER	F3RA	25A	• T3 Audio Amplifier
F4	NOT USED	F4RA	20A	• Not Used
F5	AWD MDL	F5RA	10A	• K47 Rear Differential Clutch Control Module (F46)
F6	NOT USED	F6RA	5A	• Not Used
F7	NOT USED	F7RA	20A	• Not Used
F8	NOT USED	F8RA	15A	• Not Used
F9	NOT USED	F9RA	5A	• Not Used

No.	Device Label Name	Device Assigned Name	Rating	Description
F10	NOT USED	F10RA	10A	• Not Used
F11	NOT USED	F11RA	10A	• Not Used
F12	NOT USED	F12RA	10A	• Not Used
F13	NOT USED	F13RA	7.5A	• Not Used
F14	NOT USED	F14RA	20A	• Not Used
F15	NOT USED	F15RA	10A	• Not Used
F16	NOT USED	F16RA	10A	• Not Used
F17	NOT USED	F17RA	10A	• Not Used
F18	NOT USED	F18RA	10A	• Not Used
S/B01	NOT USED	F1RB	30A	• Not Used
S/B02	NOT USED	F2RB	30A	• Not Used
S/B03	NOT USED	F3RB	40A	• Not Used
S/B04	AC/DC INV	F4RB	30A	• T6 Power Inverter Module (KI6)
S/B05	NOT USED	F5RB	40A	• Not Used
S/B06	NOT USED	F6RB	25A	• Not Used
S/B07	DC DC SOURCE 1	F7RB	40A	• T19 Power Supply Transformer (KL9)
S/B08	DC DC SOURCE 2	F8RB	40A	• T19 Power Supply Transformer (KL9)
S/B09	NOT USED	F9RB	25A	• Not Used
Relays				
RLY01	NOT USED	KR73 Ignition Main Relay	-	• Not Used

No.	Device Label Name	Device Assigned Name	Rating	Description
RLY02	NOT USED	KR74 Ignition Run Relay	-	Not Used

X53A Fuse Block - Rear Body Wire Entry



Connector Part Information

- Harness Type: Body
- OEM Connector: Not Available
- Service Connector: Not Available
- Description: Not Available

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not Available	Not Available	Not Available

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
F1Y	0.5	RD/GY	2140	Battery Positive Voltage	I	AG9
F2Y	0.5	RD/YE	2340	Battery Positive Voltage	I	AG5+AR9
F3Y	1	RD/BU	1842	Battery Positive Voltage	I	NKC
F4Y	-	-	-	Not Used	-	-
F5Y	0.5	RD/BN	2940	Battery Positive Voltage	I	F46
F6Y	0.35	RD/YE	1802	Battery Positive Voltage	I	AL0
F7Y	-	-	-	Not Used	-	-
F8Y	-	-	-	Not Used	-	-
F9Y	-	-	-	Not Used	-	-
F10Y	0.5	RD/WH	6440	Battery Positive Voltage	-	UFT
F11X	-	-	-	Not Used	-	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
F11Y	-	-	-	Not Used	-	-
F12X	-	-	-	Not Used	-	-
F12Y	-	-	-	Not Used	-	-
F13X	2.5	VT/BN	2141	Run Ignition 3 Voltage	I	-
F13Y	0.35	VT/BN	241	Run Ignition 3 Voltage	I	UVD
F14X	-	-	-	Not Used	-	-
F14Y	-	-	-	Not Used	-	-
F15X	-	-	-	Not Used	-	-
F15Y	-	-	-	Not Used	-	-
F16X	-	-	-	Not Used	-	-
F16Y	-	-	-	Not Used	-	-
F17X	2.5	VT/BK	2139	Run/Crank Ignition 1 Voltage	I	-
F17Y	0.5	VT/GY	539	Run/Crank Ignition 1 Voltage	I	DD8/UVC
F18X	-	-	-	Not Used	-	-
F18Y	-	-	-	Not Used	-	-
J1Y	1.5	RD/WH	2040	Battery Positive Voltage	I	AG9
J2Y	1.5	RD/BN	2240	Battery Positive Voltage	I	AQ5
J3Y	-	-	-	Not Used	-	-
J4Y	1.5	RD/GN	502	Battery Positive Voltage	I	KI6
J5Y	2.5	RD/WH	3440	Battery Positive Voltage	I	-
J6Y	-	-	-	Not Used	-	-
J7Y	2.5	RD/VT	542	Battery Positive Voltage	I	LE2
J8Y	2.5	RD/WH	640	Battery Positive Voltage	I	LE2
J9Y	-	-	-	Not Used	-	-
R1_1	0.5	GN/VT	5199	Run/Crank Relay Coil Control	I	-
R1_2	0.5	BK	1250	Ground	I	-
R1_3	2.5	RD/WH	3440	Battery Positive Voltage	I	-
R1_5	2.5	VT/BK	2139	Run/Crank Ignition 1 Voltage	I	-
R2_1	0.5	BN/VT	5486	Run Relay Coil Control	I	-
R2_2	0.5	BK	1250	Ground	I	-
R2_3	2.5	RD/WH	3440	Battery Positive Voltage	I	-
R2_5	2.5	VT/BN	2141	Run Ignition 3 Voltage	I	-

X53A Fuse Block - Rear Body Label (Buick)

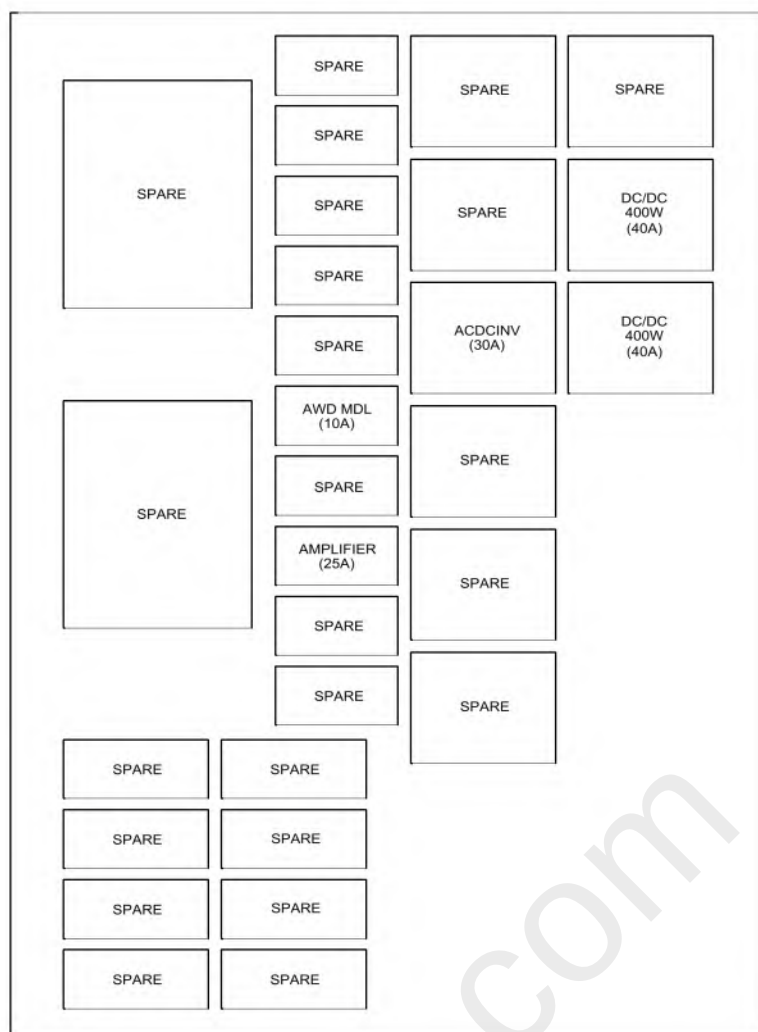
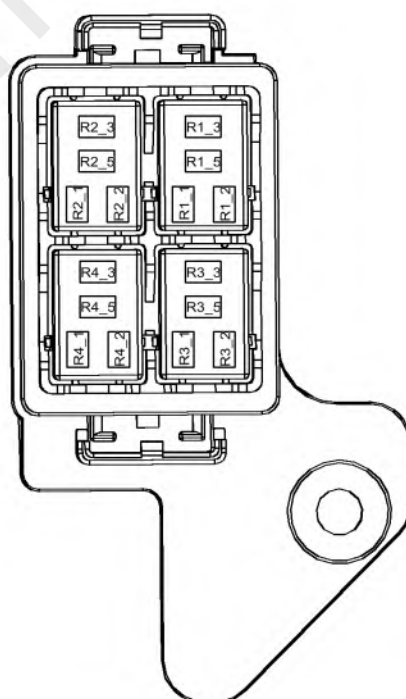


Fig. 10: X53A Fuse Block - Rear Body Label
Courtesy of GENERAL MOTORS COMPANY

X70A Relay Block - Underhood, Top View



- Harness Type: Forward Lamp
- OEM Connector: 826165
- Service Connector: Service by Component Assembly - See Part Catalog
- Description: -

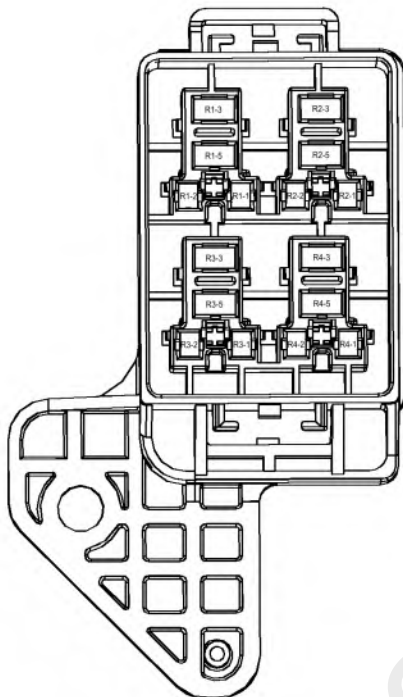
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575858	J-35616-42 (RD)	J-38125-36	Not Required	Not Required	Not Required	Not Required
II	13578858	J-35616-4A (PU)	J-38125-36	Not Required	Not Required	Not Required	Not Required
III	13578860	J-35616-4A (PU)	J-38125-36	Not Required	Not Required	Not Required	Not Required
IV	13582335	J-35616-40 (BU)	J-38125-11A	Not Required	Not Required	Not Required	Not Required
V	13582335	J-35616-42 (RD)	J-38125-36	Not Required	Not Required	Not Required	Not Required

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
R1_1	0.5 0.5	BK BK	1750 1750	Ground Ground	III II	- LUV
R1_2	0.5 0.5	BN BN	6305 6305	Brake Vacuum Switch Signal Brake Vacuum Switch Signal	III II	- LUV
R1_3	1.5	RD/VT	2640	Battery Positive Voltage	I	-
R1_5	1.5	BN/VT	1470	Brake Booster Pump Motor Control	I	-
R2_1	0.5 0.5	BN/YE BN/YE	5128 5128	Cooling Fan Relay Coil Control Cooling Fan Relay Coil Control	III II	LUV/LE2 LUV/LE2
R2_2	0.5 0.5	VT/BU VT/BU	5294 5294	Powertrain Main Relay Fused Supply 5 Powertrain Main Relay Fused Supply 5	II III	LUV/LE2 LUV/LE2
R2_3	0.5 0.5	VT/BU VT/BU	5294 5294	Powertrain Main Relay Fused Supply 5 Powertrain Main Relay Fused Supply 5	IV V	LUV/LE2 LUV/LE2
R2_5	0.5 0.5	WH WH	2368 2368	Cooling Fan Control Signal Cooling Fan Control Signal	V IV	LUV/LE2 LUV/LE2
R3_1	0.5 0.5	GN/VT GN/VT	335 335	Low Speed Cooling Fan Relay Control Low Speed Cooling Fan Relay Control	III II	LUV/LE2 LUV/LE2
R3_2	0.5 0.5	VT/BU VT/BU	5294 5294	Powertrain Main Relay Fused Supply 5 Powertrain Main Relay Fused Supply 5	III II	LUV/LE2 LUV/LE2
R3_3	0.5 0.5	BN/YE BN/YE	5128 5128	Cooling Fan Relay Coil Control Cooling Fan Relay Coil Control	V IV	LUV/LE2 LUV/LE2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
R3_5	0.5	BK	1750	Ground	IV	LUV/LE2
	0.5	BK	1750	Ground	V	LUV/LE2

X70A Relay Block - Underhood, Wire Entry



Connector Part Information

- Harness Type: Forward Lamp
- OEM Connector: 95183113
- Service Connector: Not Available
- Description: Not Available

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not Available	Not Available	Not Available

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
R1_1	0.5	BK	1750	Ground	I	-
R1_2	0.5	BN	6305	Brake Vacuum Switch Signal	I	-
R1_3	1.5	RD/VT	2640	Battery Positive Voltage	I	-
R1_5	1.5	BN/VT	1470	Brake Booster Pump Motor Supply Voltage	I	-
R2_1	0.5	BN/YE	5128	Cooling Fan Relay Coil Control	I	-
R2_2	0.5	VT/BU	5294	Powertrain Main Relay Fused Supply (5)	I	-
R2_3	0.5	VT/BU	5294	Powertrain Main Relay Fused Supply (5)	I	-
R2_5	0.5	WH	2368	Cooling Fan Control Signal	I	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
R3_1	0.5	GN/VT	335	Low Speed Cooling Fan Relay Control	I	-
R3_2	0.5	VT/BU	5294	Powertrain Main Relay Fused Supply (5)	I	-
R3_3	0.5	BN/YE	5128	Cooling Fan Relay Coil Control	I	-
R3_5	0.5	BK	1750	Ground	I	-
R4_1	-	-	-	Not Used	-	-
R4_2	-	-	-	Not Used	-	-
R4_3	-	-	-	Not Used	-	-
R4_5	-	-	-	Not Used	-	-

X70A Relay Block - Underhood Label

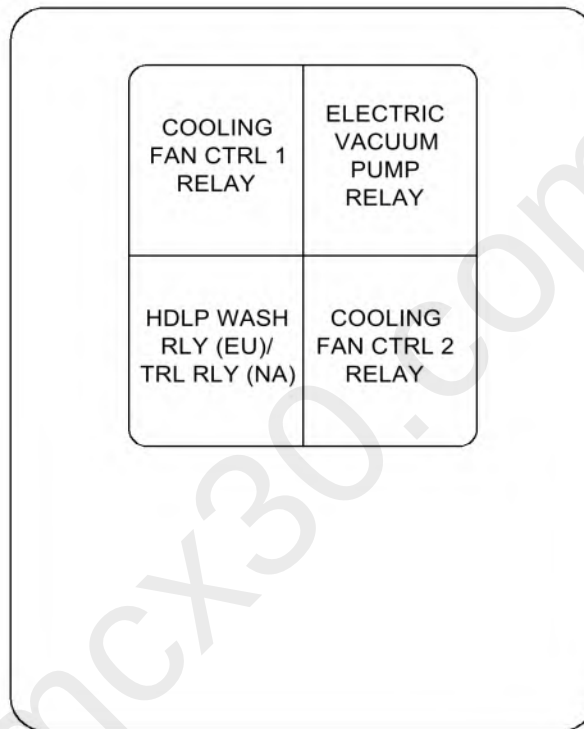


Fig. 11: X70A Relay Block - Underhood Label
Courtesy of GENERAL MOTORS COMPANY