

2018 ELECTRICAL

Wiring Systems And Power Management - Component Locator - Electrical Center Identification Views - Equinox & Terrain

ELECTRICAL CENTER IDENTIFICATION VIEWS

X50A FUSE BLOCK - UNDERHOOD LABEL (LH7/DIESEL)

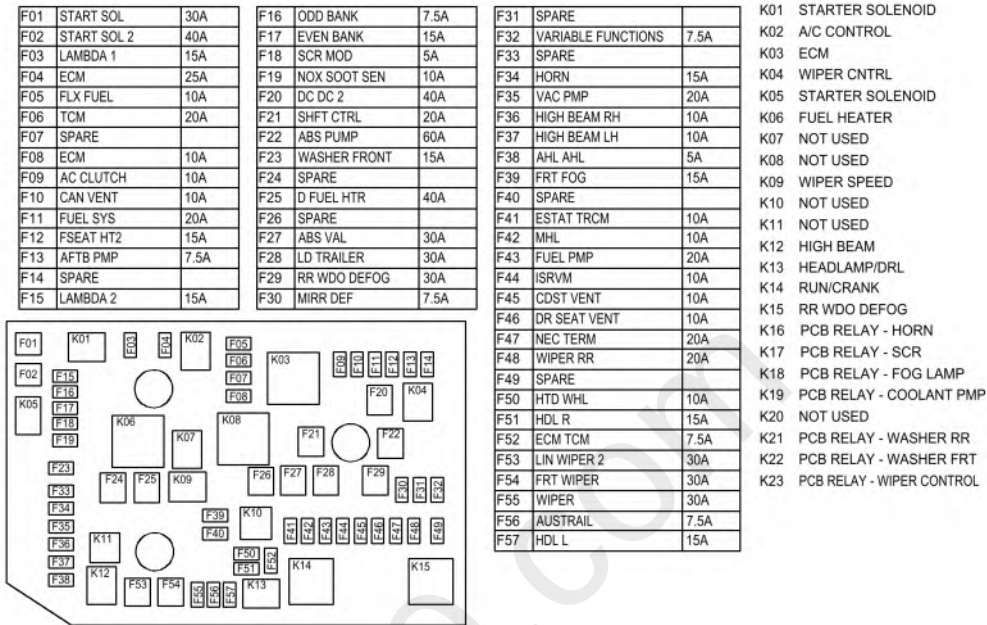


Fig. 1: X50A Fuse Block - Underhood Label (LH7/Diesel)
Courtesy of GENERAL MOTORS COMPANY

X50A FUSE BLOCK - UNDERHOOD LABEL (LTG/LYX/GASOLINE)

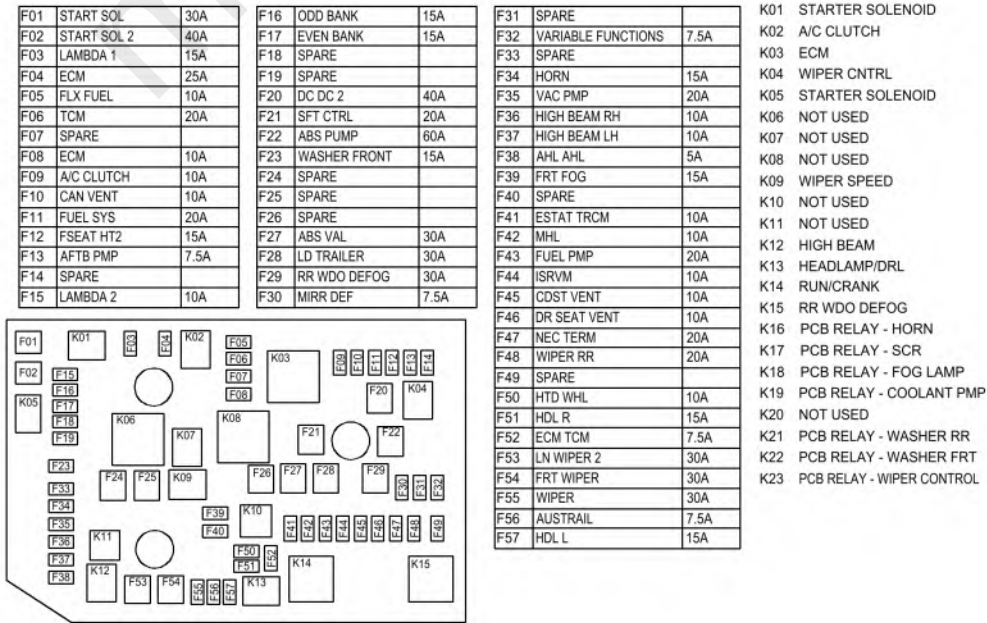


Fig. 2: X50A Fuse Block - Underhood Label (LTG/LYX/Gasoline)
Courtesy of GENERAL MOTORS COMPANY

X50A FUSE BLOCK - UNDERHOOD TOP VIEW

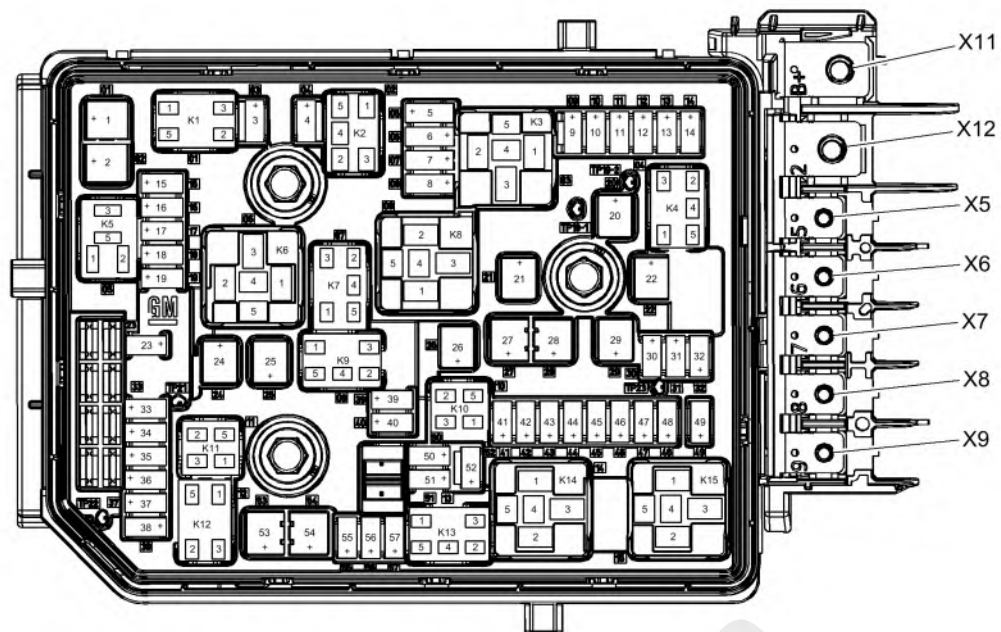


Fig. 3: X50A Fuse Block - Underhood Top View
 Courtesy of GENERAL MOTORS COMPANY

X50A Fuse Block - Underhood Usage

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
1	STARTER 1	F1UA Fuse	30A	• KR27 Starter Relay
2	STARTER 2	F2UA Fuse	40A	• KR27C Starter Pinion Solenoid Actuator Relay (KL9)

No.	Device Label Name	Device Assigned Name	Rating	Description
3	NON/WALK	F3UA Fuse	15A	• B52A Heated Oxygen Sensor 1 (LTG) • B52A Heated Oxygen Sensor 1 (LYX) • B280 Automatic Transmission Accumulator Solenoid Valve (LH7) • E45 Positive Crankcase Ventilation Heater (LH7) • K173 Transmission Range Control Module (EPH) • KR27 Starter Relay • M98 Intake Manifold Runner Valve Actuator (LH7) • Q12 Evaporative Emission Purge Solenoid Valve (LTG) • Q12 Evaporative Emission Purge Solenoid Valve (LYX) • Q40 Turbocharger Bypass Solenoid Valve (LTG) • Q40 Turbocharger Bypass Solenoid Valve (LYX) • Q42 Turbocharger Wastegate Solenoid Valve (LTG) • Q42 Turbocharger Wastegate Solenoid Valve (LYX) • Q44 Engine Oil Pressure Control Solenoid Valve (LH7) • Q44 Engine Oil Pressure Control Solenoid Valve (LTG) • Q44 Engine Oil Pressure Control Solenoid Valve (LYX) • Q45 Piston Cooling Oil Jet Solenoid Valve (LH7) • Q84C Camshaft Position Actuator Park Lock Solenoid Valve - Intake (LYX)
4	ECM	F4UA Fuse	25A	• K20 Engine Control Module
5	FLEX/FUEL	F5UA Fuse	10A	• KR31 Coolant Pump Relay - Auxiliary • M96 Active Grille Air Shutter Actuator (VTI)
6	TCM	F6UA Fuse	20A	• Q8 Control Solenoid Valve Assembly (MHG/MNH/MNK)
7	EMPTY	F7UA Fuse	-	• Not Used
8	ECM	F8UA Fuse	10A	• K20 Engine Control Module
9	AC	F9UA Fuse	10A	• KR29 A/C Compressor Clutch Relay

No.	Device Label Name	Device Assigned Name	Rating	Description
10	CNSTR/VENT/SOL	F10UA Fuse	10A	- K115 Reductant Control Module (LH7) - KR121B Reductant Control Module Relay 2 (LH7) - Q13 Evaporative Emission Vent Solenoid Valve (LTG/LYX)
11	FUEL/PUMP	F11UA Fuse	20A	K111 Fuel Pump Driver Control Module
12	HTD/SEAT	F12UA Fuse	15A	K29F Seat Heating Control Module - Front (KA1)
13	ENG/COOL/PUMP	F13UA Fuse	7.5A	KR31 Coolant Pump Relay - Auxiliary
14	EMPTY	F14UA Fuse	-	Not Used
15	02 SNSR	F15UA Fuse	10A	- B52B Heated Oxygen Sensor 2 (LTG/LYX) - B75C Multifunction Intake Air Sensor (LTG/LYX) - B280 Automatic Transmission Accumulator Solenoid Valve (LTG/LYX) - K20 Engine Control Module (LTG/LYX)
16	IGN/COIL/ODD	F16UA Fuse	15A	- K20 Engine Control Module (LTG/LYX) - T8A Ignition Coil 1 (LTG/LYX) - T8B Ignition Coil 2 (LTG/LYX) - T8C Ignition Coil 3 (LTG/LYX) - T8D Ignition Coil 4 (LTG/LYX)
17	IGN/COIL/EVEN	F17UA Fuse	15A	K20 Engine Control Module
18	SCR_MOD	F18UA Fuse	5A	K115 Reductant Control Module (LH7)
19	NOX_SOOT	F19UA Fuse	10A	- A97 Transmission Range Selector Controls (EPH) - B136 Exhaust Particulate Matter Sensor (LH7) - B195A Nitrogen Oxides Sensor 1 (LH7) - B195B Nitrogen Oxides Sensor 2 (LH7) - K111 Fuel Pump Driver Control Module (LH7)
20	DC DC TRANS	F20UA Fuse	40A	T19 Power Supply Transformer (KL9)
21	SHFT_CTL	F21UA	20A	K173 Transmission Range Control Module (EPH)
22	ABS	F22UA Fuse	60A	K17 Electronic Brake Control Module

No.	Device Label Name	Device Assigned Name	Rating	Description
23	WASH/PUMP	F23UA Fuse	15A	- KR6 Rear Window Washer Pump Relay - KR11 Windshield Washer Pump Relay
24	EMPTY	F24UA Fuse	-	Not Used
25	Fuel Heater	F25UA Fuse	40A	KR22 Fuel Heater Relay (LH7)
26	EMPTY	F26UA Fuse	-	Not Used
27	ABS	F27UA Fuse	30A	K17 Electronic Brake Control Module
28	LD_TRAILR	F28UA Fuse	30A	- F14RA - F18RA
29	RR/WDO/DEFOG	F29UA Fuse	30A	E18 Rear Defogger Grid
30	MIR/DEFOG	F30UA Fuse	7.5A	- A9A Outside Rearview Mirror Glass - Driver - A9B Outside Rearview Mirror Glass - Passenger
31	EMPTY	F31UA Fuse	-	Not Used
32	VAR/FUNC	F32UA Fuse	7.5A	- A97 Transmission Range Selector Controls (EPH) - E40 Electrical Auxiliary Heater (C32) - K33 HVAC Control Module - K111 Fuel Pump Driver Control Module - P16 Instrument Cluster - P43 Collision Alert Indicators (UEU) - T19 Power Supply Transformer (KL9)
33	EMPTY	F33UA Fuse	-	Not Used
34	HORN	F34UA Fuse	15A	P13 Horn Assembly
35	EMPTY	F35UA Fuse	-	Not Used
36	HI/BEAM/RT	F36UA Fuse	10A	- E13RA Headlamp Assembly - Right - M28R High Beam Solenoid Actuator - Right (T4A/T4F/T4L+X88)
37	HI/BEAM/LT	F37UA Fuse	10A	- E13LA Headlamp Assembly - Left - M28L High Beam Solenoid Actuator - Left (T4A/T4F/T4L+X88)
38	AHL	F38UA Fuse	5A	K26 Headlamp Control Module (TR7)

No.	Device Label Name	Device Assigned Name	Rating	Description
39	FOG/LMP/FRT	F39UA Fuse	15A	- E29LF Fog Lamp - Left Front (T3U) - E29RF Fog Lamp - Right Front (T3U)
40	EMPTY	F40UA Fuse	-	Not Used
41	TRCM	F41UA Fuse	10A	K173 Transmission Range Control Module (EPH)
42	HDLP/POS	F42UA Fuse	10A	- E13LA Headlamp Assembly - Left - E13RA Headlamp Assembly - Right - M29L Headlamp Leveling Actuator - Left (TR6/TR7) - M29R Headlamp Leveling Actuator - Right (TR6/TR7) - S30 Headlamp Switch (TR6)
43	EMPTY	F43UA Fuse	-	Not Used
44	ISRVIM	F44UA Fuse	10A	- A10 Inside Rearview Mirror - B87 Rearview Camera (Without UVC)
45	CDST_VENT	F45UA Fuse	10A	- M73B Seat Blower Motor - Passenger Back (KU3) - M73D Seat Blower Motor - Passenger Cushion (KU3)
46	DR/SEAT/VENT	F46UA Fuse	10A	- M73A Seat Blower Motor - Driver Back (KU1) - M73C Seat Blower Motor - Driver Cushion (KU1)
47	NEC_TERM	F47UA Fuse	20A	Not Used
48	RR/WPR	F48UA Fuse	20A	KR7 Rear Wiper Relay
49	EMPTY	F49UA Fuse	-	Not Used
50	HTD_WHL	F50UA Fuse	10A	- K32 Steering Wheel Heating Control Module (UVD) - X85 Steering Wheel Air Bag Coil
51	DRL_LH	F51UA Fuse	15A	E13RA Headlamp Assembly - Right
52	ECM/TCM Fuse	F52UA Fuse	7.5A	- K20 Engine Control Module - K71 Transmission Control Module (M3D/M3H/M3U) - Q8 Control Solenoid Valve Assembly (MHG/MNH/MNK)

No.	Device Label Name	Device Assigned Name	Rating	Description
53	EMPTY	F53UA Fuse	-	Not Used
54	EMPTY	F54UA Fuse	-	Not Used
55	FRT/WPR	F55UA Fuse	30A	- KR12B Windshield Wiper Relay - KR12C Windshield Wiper Speed Control Relay
56	EMPTY	F56UA Fuse	-	Not Used
57	DRL/LT	F57UA Fuse	15A	E13LA Headlamp Assembly - Left
Relays				
K1	START/STOP	KR27 Starter Relay	-	M64 Starter Motor
K2	A/C CLUTCH	KR29 A/C Compressor Clutch Relay	-	Q2 A/C Compressor Clutch
K3	ECM	KR75 Engine Controls Ignition Relay	-	- F3UA - F4UA - F5UA - F15UA - F16UA - F17UA - KR22 Fuel Heater Relay (LH7) - KR29 A/C Compressor Clutch Relay
K4	WPR	KR12B Windshield Wiper Relay	-	KR12C Windshield Wiper Speed Control Relay
K5	START/SOL	KR27C Starter Pinion Solenoid Actuator Relay	-	M64 Starter Motor
K6	Fuel Heater	KR22 Fuel Heater Relay	-	E11 Fuel Heater (LH7)
K7	EMPTY	-	-	Not Used
K8	EMPTY	-	-	Not Used
K9	WPR/SPD	KR12C Windshield Wiper Speed Control Relay	-	M75 Windshield Wiper Motor
K10	EMPTY	-	-	Not Used
K11	EMPTY	-	-	Not Used
K12	HI/BEAM	KR48 Headlamp High Beam Relay	-	- F36UA - F37UA

No.	Device Label Name	Device Assigned Name	Rating	Description
K13	DRL	KR50 Headlamp Relay	-	- F51UA - F57UA
K14	RUN/CRANK	KR73 Ignition Main Relay	-	- F32UA - F41UA - F42UA - F44UA - F45UA - F46UA - F47UA - F50UA - F52UA - F56UA
K15	RR/WDO/MIR/DEFOG	KR5 Rear Defogger Relay	-	- F29UA - F30UA

NOTE:

Relays listed below are Printed Circuit Board (PCB) relays and are only serviceable by Printed Circuit Board (PCB) Assembly (if available) or Fuse Block Assembly. PCB Relays are not serviceable individually.

K16	HORN (PCB)	KR3 Horn Relay	-	F34UA
K17	SCR (PCB)	KR121B Reductant Control Module Relay 2	-	- F18UA - F19UA
K18	FOG/LMP/FRT (PCB)	KR46 Front Fog Lamp Relay	-	F39UA Fuse
K19	COOL/PMP (PCB)	KR31 Coolant Pump Relay - Auxiliary	-	G36 Auxiliary Heater Coolant Pump
K20	EMPTY (PCB)	-	-	Not Used
K21	WASH/PUMP/RR (PCB)	KR6 Rear Window Washer Pump Relay	-	G19 Rear Window Washer Pump
K22	WASH/PUMP/FT (PCB)	KR11 Windshield Washer Pump Relay	-	G24 Windshield Washer Pump
K23	WPR/RR (PCB)	KR7 Rear Wiper Relay	-	M45 Rear Wiper Motor

Important: Items listed below are Wiper and Washer system diagnostic test points.

TP21	-	TP21	-	KR6 Rear Window Washer Pump Relay
TP22	-	TP22	-	KR11 Windshield Washer Pump Relay
TP23	-	TP23	-	KR7 Rear Wiper Relay

Important: Items listed below are HVAC system diagnostic test points.

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No.	Device Label Name	Device Assigned Name	Rating	Description
TP19-1	-	TP19-1	-	• KR31 Coolant Pump Relay - Auxiliary
TP19-2	-	TP19-2	-	• KR31 Coolant Pump Relay - Auxiliary

X50A FUSE BLOCK - UNDERHOOD BOTTOM VIEW

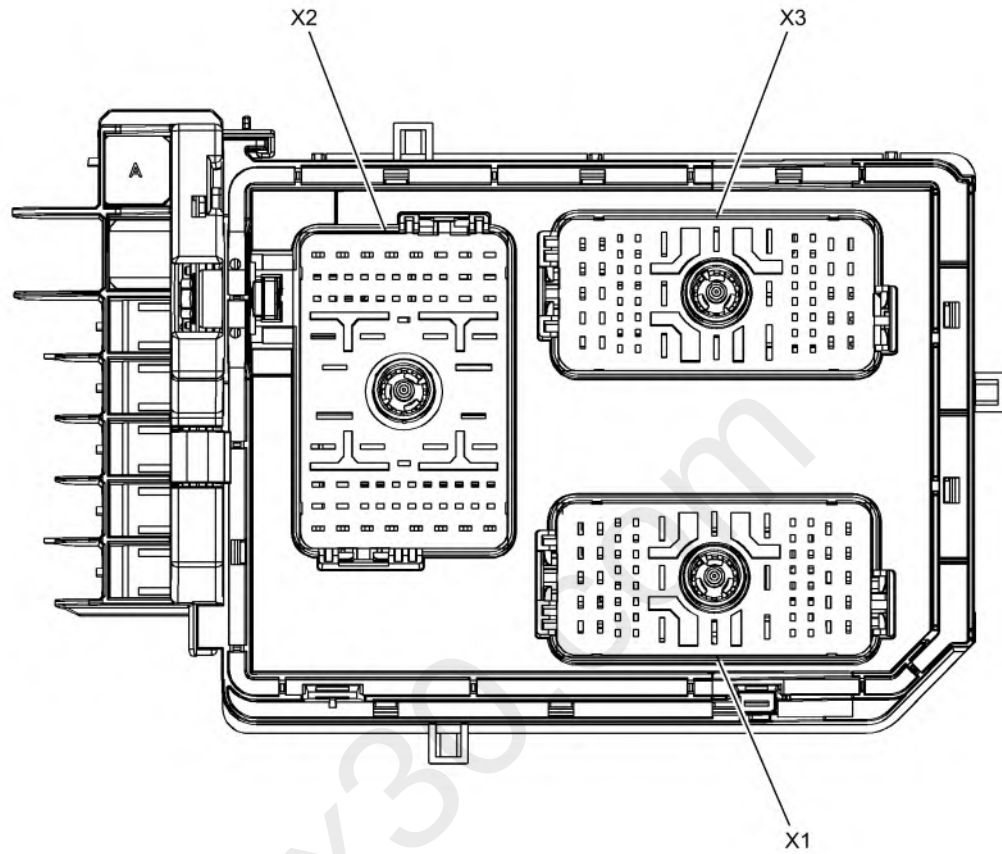


Fig. 4: X50A Fuse Block - Underhood Bottom View
 Courtesy of GENERAL MOTORS COMPANY

X50A FUSE BLOCK - UNDERHOOD SIDE VIEW

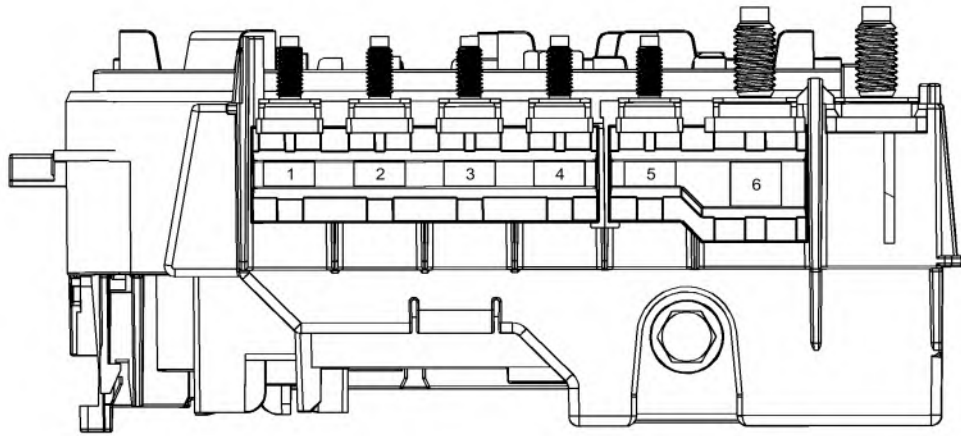


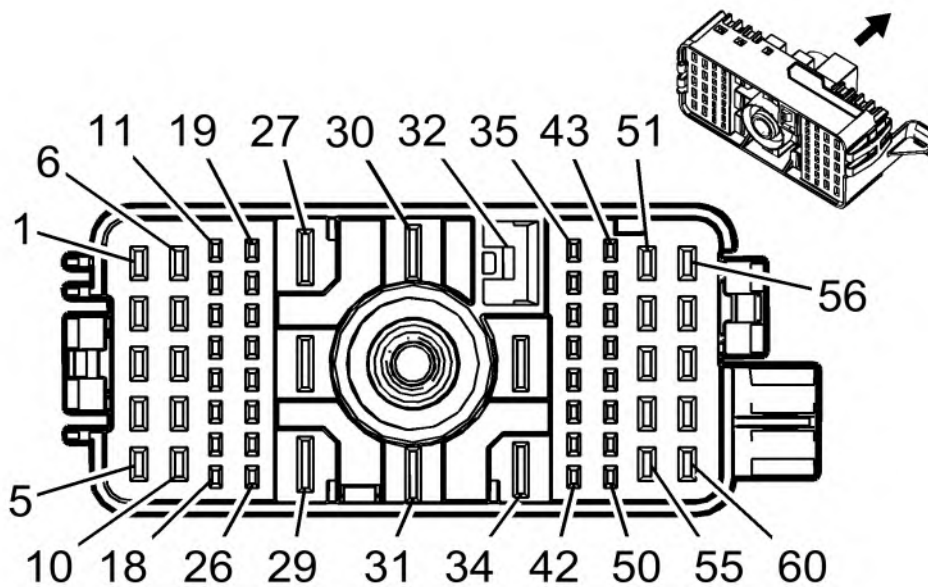
Fig. 5: X50A Fuse Block - Underhood Side View
 Courtesy of GENERAL MOTORS COMPANY

X50A Fuse Block - Underhood

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
1	-	F1UB	80A	X53A Fuse Block - Rear Body
2	-	F2UB	80A	X53A Fuse Block - Rear Body
3	-	F3UB	80A	K43 Power Steering Control Module
4	-	F4UB	80A	G10 Cooling Fan Motor
5	-	F5UB	80A	K20 Engine Control Module (LH7)
6	-	F6UB	-	Not Used

X50A FUSE BLOCK - UNDERHOOD X1





Connector Part Information

- Harness Type: Forward Lamp
- OEM Connector: 13405620
- Service Connector: 19332381
- Description: 60-Way F 1.5, 2.8 CTS, 6.3 MCP Series (BK)

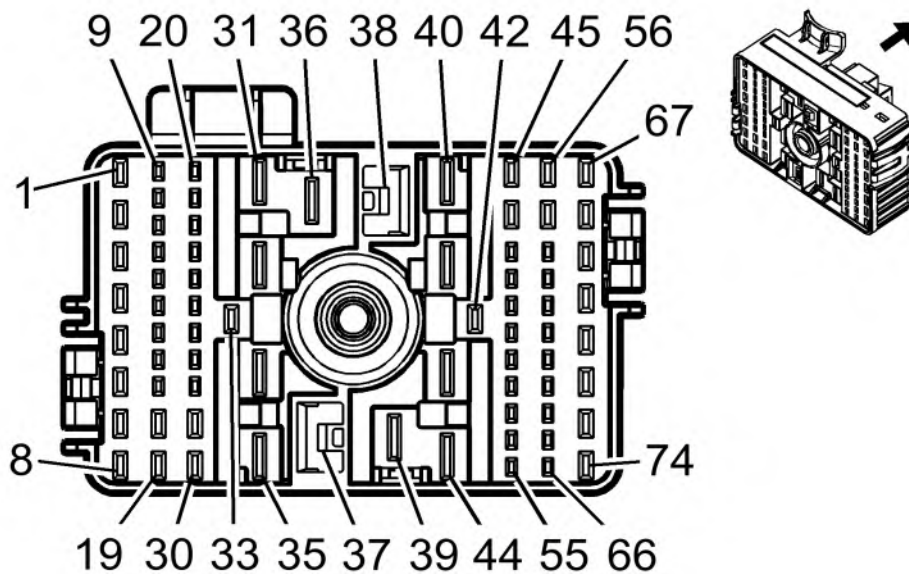
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13579915	J-35616-40 (BU)	J-38125-556	1241408-1	Lear 28	A	B
II	13579915	J-35616-40 (BU)	J-38125-556	1241408-1	Lear 28	C	A
III	19332365	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
IV	19332366	J-35616-35 (VT)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
V	19333302	J-35616-42 (RD)	J-38125-11A	Not Available	Not Available	Not Available	Not Available

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	0.35 0.5	YE/GY YE/GY	2226 2226	Right Headlamp Control Right Headlamp Control	V IV	Z88+T4F Z88+T4L+MAH/MBC/MCX/MAM
3	0.5	VT/BK	739	Run/Crank Ignition 1 Voltage	IV	UVD
4	-	-	-	Not Occupied	-	-
5	0.5	BN/VT	2234	Front Fog Lamp Control	IV	-
6	0.35 0.5	YE YE	2227 2227	Left Headlamp Control Left Headlamp Control	V IV	Z88+T4F Z88+T4L+MAH/MBC/MCX/MAM
7	0.35	BN/YE	189	Headlamp Leveling Motor Control	V	TR7
8	0.35	VT/GN	439	Run/Crank Ignition 1 Voltage	V	-
9 - 10	-	-	-	Not Occupied	-	-
11	0.35	BN/YE	189	Headlamp Leveling Motor Control	III	-
12 - 13	-	-	-	Not Occupied	-	-
14	0.35	WH/BK	2366	Cooling Fan Control Relay Speed Signal	III	-
15 - 19	-	-	-	Not Occupied	-	-
20	0.35	RD/VT	1242	Battery Positive Voltage	III	T4L+TR7

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
21	0.35	BN/RD	2700	A/C Pressure Sensor 5V Reference	III	-
22 - 23	-	-	-	Not Occupied	-	-
24	0.35	GN	380	A/C Refrigerant Pressure Sensor Signal	III	-
25 - 26	-	-	-	Not Occupied	-	-
27	2	RD/GY	3540	Battery Positive Voltage	I	-
28	2	RD/GY	3540	Battery Positive Voltage	I	-
29 - 30	-	-	-	Not Occupied	-	-
31	1.5	YE/BN	95	Windshield Wiper Motor Low Speed Control	II	-
32 - 33	-	-	-	Not Occupied	-	-
34	1.5	WH	92	Windshield Wiper Motor High Speed Control	II	-
35 - 36	-	-	-	Not Occupied	-	-
37	0.35	BU/GY	636	Outside Ambient Air Temperature Sensor Signal	III	-
38	0.35	BK/GN	580	Engine Control Sensors Low Reference (2)	III	-
39	0.35	YE/BU	3680	Charge Air Cooler Outlet Temperature Sensor Low Reference	III	LH7
40	0.35	GN	3683	Charge Air Cooler Inlet Temperature Sensor Signal	III	LH7
41	0.35	BK	1150	Ground	III	-
42	0.35 0.35	BN WH/YE	3681 3202	Charge Air Cooler Outlet Temperature Sensor Signal Throttle Inlet Absolute Pressure Sensor Low Reference	III III	LH7 LYX
43 - 44	-	-	-	Not Occupied	-	-
45	0.35	BK/GN	580	Engine Control Sensors Low Reference (2)	III	-
46 - 48	-	-	-	Not Occupied	-	-
49	0.35	WH/RD	3201	Throttle Inlet Absolute Pressure Sensor 5V Reference	III	LYX
50	0.35 0.35	YE/BK YE/WH	3682 3200	Charge Air Cooler Inlet Temperature Sensor Low Reference Throttle Inlet Absolute Pressure Sensor Signal	III III	LH7 LYX
51	-	-	-	Not Occupied	-	-
52	0.5	GY/VT	228	Windshield Washer Pump Control	IV	-
53	2.5	BK	1150	Ground	IV	-
54	1.5	BK	1450	Ground	IV	-
55	0.5	BU/VT	392	Rear Window Washer Pump Control	IV	-
56	0.35	WH	711	Left Headlamp High Beam Control	V	-
57	0.35	WH	311	Right Headlamp High Beam Control	V	-
58	-	-	-	Not Occupied	-	-
59	0.75	BN/GY	29	Horn Control	IV	-
60	-	-	-	Not Occupied	-	-

X50A FUSE BLOCK - UNDERHOOD X2



Connector Part Information

- Harness Type: Body
- OEM Connector: 13405621
- Service Connector: 19332382
- Description: 74-Way F 1.5, 2.8 CTS, 6.3 MCP Series (BK)

Terminal Part Information

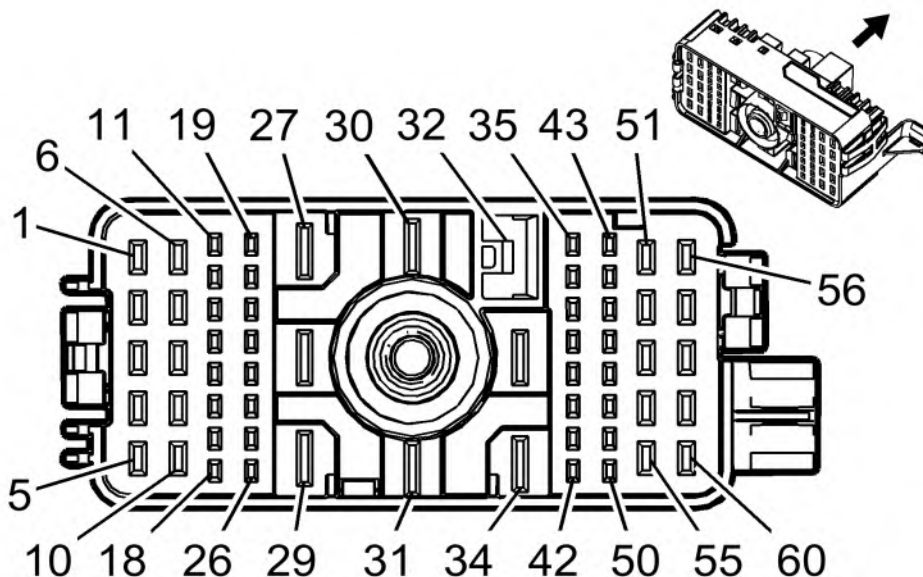
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13579915	J-35616-40 (BU)	J-38125-556	1241408-1	Lear 28	A	B
II	13579915	J-35616-40 (BU)	J-38125-556	1241408-1	Lear 28	C	A
III	13579921	J-35616-40 (BU)	J-38125-556	1241406-1	Lear 17	F	1
IV	13582297	J-35616-64B (LT BU)	J-38125-22	Not Available	Not Available	Not Available	Not Available
V	19332365	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
VI	19332366	J-35616-35 (VT)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
VII	19333302	J-35616-42 (RD)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
VIII	19369711	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	VT/WH	239	Run/Crank Ignition 1 Voltage	VII	MHG+EPH
2	0.35	VT/GN	439	Run/Crank Ignition 1 Voltage	VII	TR6
3	-	-	-	Not Occupied	-	-
4	0.35	VT/GY	139	Run/Crank Ignition 1 Voltage	VII	-
5	0.35	VT/GY	1039	Run/Crank Ignition 1 Voltage	VII	KU3
6	0.35	VT/BK	339	Run/Crank Ignition 1 Voltage	VII	KU1
7	-	-	-	Not Occupied	-	-
8	1	RD/BN	1742	Battery Positive Voltage	VI	-
9	0.35	YE/VT	6030	Brake Vacuum Sensor Signal	V	KL9
10	0.35	WH/BN	544	DRL Relay Control	V	-
11	0.35	YE/RD	6031	Brake Vacuum Sensor 5V Reference	V	KL9
12 - 13	-	-	-	Not Occupied	-	-
14	0.35	BN/YE	2267	Mirror Heating Element Control	V	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
15	0.35	GN/VT	5199	Run/Crank Relay Coil Control	V	-
16	0.35	YE	5420	Rear Wiper Motor Relay Coil Control	V	-
17 - 18	-	-	-	Not Occupied	-	-
19	1	BU	393	Rear Window Wiper Motor Control	VI	-
20	0.35	BN/WH	1317	Fog Lamp Relay Control	V	T3U
21	0.35	BN/VT	1969	Headlamp High Beam Relay Control	V	-
22	1.5	RD/GY	3540	Battery Positive Voltage	VIII	-
23	0.35	WH/VT	860	Front Windshield Wiper Switch High Signal	V	-
24	0.35	VT/GN	39	Run/Crank Ignition 1 Voltage	V	-
25	0.35	BN/GY	2268	Windshield Washer Relay Control	V	-
26	0.35	BN/VT	193	Rear Defog Relay Control	V	-
27 - 30	-	-	-	Not Occupied	-	-
31	2.5	RD/WH	342	Battery Positive Voltage	I	-
32	3	RD/GY	642	Battery Positive Voltage	IV	MAH/MBC/MCX-V92
33	-	-	-	Not Occupied	-	-
34	2	BN/VT	293	Rear Defog Element Control	I	-
35	-	-	-	Not Occupied	-	-
36	1.5	RD/GY	2140	Battery Positive Voltage	II	EPH+MHG
37 - 39	-	-	-	Not Occupied	-	-
40	2.5	BU/GN	7071	Heater Fuel Control	I	LH7
41	2	GN	6271	Crankshaft 60X Sensor Signal	I	-
42	-	-	-	Not Occupied	-	-
43	4	RD/BU	1542	Battery Positive Voltage	III	KL9
44	2	GN	6271	Crankshaft 60X Sensor Signal	I	-
45 - 46	-	-	-	Not Occupied	-	-
47	0.35	BK/YE	6032	Brake Vacuum Sensor Low Reference	V	KL9+LH7 KL9+LYX/LTG
	0.35	BK/GN	580	Engine Control Sensors Low Reference (2)	V	
48 - 50	-	-	-	Not Occupied	-	-
51	0.35	BN/WH	28	Horn Relay Control	V	-
52	0.35	GN/WH	2270	Rear Window Washer Relay Control	V	-
53 - 55	-	-	-	Not Occupied	-	-
56	0.35	VT/BU	3674	NOx Sensor 1 Control	VI	X88
	0.75	VT/BU	3674	NOx Sensor 1 Control	VI	Z88
57 - 58	-	-	-	Not Occupied	-	-
59	0.35	VT/GN	4320	Selective Catalytic Reduction Power Module Wake-Up Signal	V	-
60	-	-	-	Not Occupied	-	-
61	0.35	RD/VT	542	Battery Positive Voltage	V	-
62 - 63	-	-	-	Not Occupied	-	-
64	0.35	GY	91	Windshield Wiper Motor Relay Coil Control	V	-
65	0.35	BK	1550	Ground	V	-
66	0.35	VT/BU	5705	Powertrain Main Relay Fused Control 6	V	-
67	0.35	VT/BU	5705	Powertrain Main Relay Fused Control 6	VII	-
68 - 70	-	-	-	Not Occupied	-	-
71	0.35	RD/VT	542	Battery Positive Voltage	VII	-
72	2.5	RD/BU	3240	Battery Positive Voltage	VI	-
73	0.5	RD/WH	4740	Battery Positive Voltage	VI	KA1/KU1/KU3
74	-	-	-	Not Occupied	-	-

X50A FUSE BLOCK - UNDERHOOD X3

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Connector Part Information

- Harness Type: Engine
- OEM Connector: 13405622
- Service Connector: 19332383
- Description: 60-Way F 1.5 CTS, 2.8 CTS, 6.3 MCP, 9.5 YPT Series (GY)

Terminal Part Information

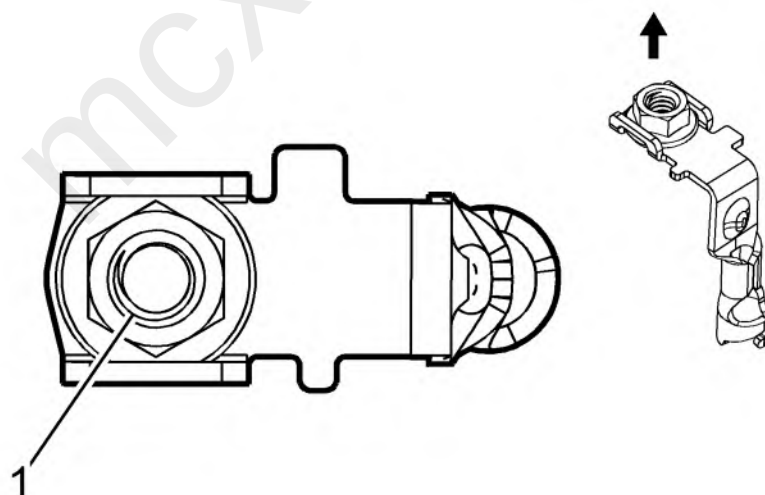
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13505347	J-35616-14 (GN)	J-38125-557	1241374-1	Lear 17	E	2
II	13579915	J-35616-40 (BU)	J-38125-556	1241408-1	Lear 28	A	B
III	13582285	J-35616-35 (VT)	J-38125-557	1241388-1	Lear 17	E	C
IV	19332365	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
V	19332366	J-35616-35 (VT)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
VI	19333302	J-35616-42 (RD)	J-38125-11A	Not Available	Not Available	Not Available	Not Available

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	-	-	-	Not Occupied	-	-
3	1 0.5	RD/WH RD/WH	140 140	Battery Positive Voltage Battery Positive Voltage	V III	LH7 LTG/LYX
4	-	-	-	Not Occupied	-	-
5	1	RD/VT	340	Battery Positive Voltage	V	-
6 - 7	-	-	-	Not Occupied	-	-
8	0.5	VT/GN	439	Run/Crank Ignition 1 Voltage	III	-
9	2.5	VT/BU	3674	NOx Sensor 1 Control	V	LH7+NDE
10	0.5 0.35	YE/BU YE/BU	5126 5126	After Boil Heater Pump Control After Boil Heater Pump Control	III VI	LH7+Z88 LYX/LTG+MAH/MBC/MCX/EPH+X88
11	-	-	-	Not Occupied	-	-
12	0.35	WH/BK	2366	Cooling Fan Control Relay Speed Signal	IV	-
13 - 16	-	-	-	Not Occupied	-	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
17	0.35 0.35	GY/BK GY	3865 5127	Heater Loop Auxiliary Pump Relay Control After Boil Heater Relay Control	IV IV	LH7 LYX/LTG+MAH/MBC/MCX
18	0.35	YE	5991	Powertrain Relay Coil Control	IV	-
19	-	-	-	Not Occupied	-	-
20	0.35	YE/VT	6030	Brake Vacuum Sensor Signal	IV	-
21	0.35	GN	380	A/C Refrigerant Pressure Sensor Signal	IV	-
22	0.35 0.5	BK/YE BK/GN	6032 580	Brake Vacuum Sensor Low Reference Engine Control Sensors Low Reference (2)	IV IV	KL9+LH7 KL9+LYX
23	0.35	YE/RD	6031	Brake Vacuum Sensor 5V Reference	IV	-
24	-	-	-	Not Occupied	-	-
25	0.35	WH/GY	459	A/C Compressor Clutch Relay Control	IV	-
26 - 30	-	-	-	Not Occupied	-	-
31	2.5 2	VT/BU VT/BU	5290 5290	Powertrain Main Relay Fused Supply 1 Powertrain Main Relay Fused Supply 1	II II	LH7 LYX/LTG
32	-	-	-	Not Occupied	-	-
33	2.5	YE/GN	4358	Starter Pinion Solenoid Voltage	II	-
34	2.5	YE	6	Starter Solenoid Crank Ignition Voltage	II	-
35	0.5 0.5	BN WH/YE	3681 3202	Charge Air Cooler Outlet Temperature Sensor Signal Throttle Inlet Absolute Pressure Sensor Low Reference	I I	LH7 LYX
36	0.5	GN	3683	Charge Air Cooler Inlet Temperature Sensor Signal	IV	LH7
37	0.5	YE/BU	3680	Charge Air Cooler Outlet Temperature Sensor Low Reference	I	LH7
38	0.35	BU/GY	636	Outside Ambient Air Temperature Sensor Signal	IV	-
39	0.35	BN/RD	2700	A/C Pressure Sensor 5V Reference	IV	-
40	-	-	-	Not Occupied	-	-
41	0.5 0.5	BK/WH BK	151 450	Signal Ground Ground	IV IV	KL9+LH7 KL9+LYX
42	0.5 0.5	VT/BU BK	5293 450	Powertrain Main Relay Fused Supply 4 Ground	IV IV	LYX+MGR-KL9 LYX+MM1-KL9
43	0.5 0.5	YE/BK YE/WH	3682 3200	Charge Air Cooler Inlet Temperature Sensor Low Reference Throttle Inlet Absolute Pressure Sensor Signal	IV IV	LH7 LYX
44	0.5	WH/RD	3201	Throttle Inlet Absolute Pressure Sensor 5V Reference	IV	LYX
45	0.35 0.5	BK/GN BK/GN	580 580	Engine Control Sensors Low Reference (2) Engine Control Sensors Low Reference (2)	IV IV	LH7 LYX

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
46	0.35	GN/BU	3889	DEF Power Module Relay Control	IV	LH7+NDE
47	0.35	BK/GN	580	Engine Control Sensors Low Reference (2)	IV	LH7
	0.5	BK/GN	580	Engine Control Sensors Low Reference (2)	IV	LYX
48	0.35	BU	3017	Fuel Heater Relay Control 1	IV	LH7
49	0.35	YE/BK	625	Starter Enable Relay Control	IV	-
50	0.35	YE/VT	4325	Starter Pinion Solenoid Relay Control	IV	KL9+LYX/LTG
	0.35	YE/BK	4325	Starter Pinion Solenoid Relay Control	IV	LH7+KL9
	0.35	YE/BK	625	Starter Pinion Solenoid Relay Control	IV	LYX+MM1-KL9
				Starter Enable Relay Control		
51	1	VT/BU	5292	Powertrain Main Relay Fused Supply 3	V	LH7
	0.5	VT/BU	5292	Powertrain Main Relay Fused Supply 3	III	LTG/LYX
52	0.5	VT/BU	5291	Powertrain Main Relay Fused Supply 2	III	LH7
	0.75	VT/BU	5291	Powertrain Main Relay Fused Supply 2	V	LTG/LYX
53	0.5	VT/BU	5294	Powertrain Main Relay Fused Supply 5	III	-
54	0.5	VT/BU	5293	Powertrain Main Relay Fused Supply 4	III	-
55 - 58	-	-	-	Not Occupied	-	-
59	0.75	BN/GN	59	A/C Compressor Clutch Control	V	-
60	-	-	-	Not Occupied	-	-

X50A FUSE BLOCK - UNDERHOOD X5 (LH7)



Connector Part Information

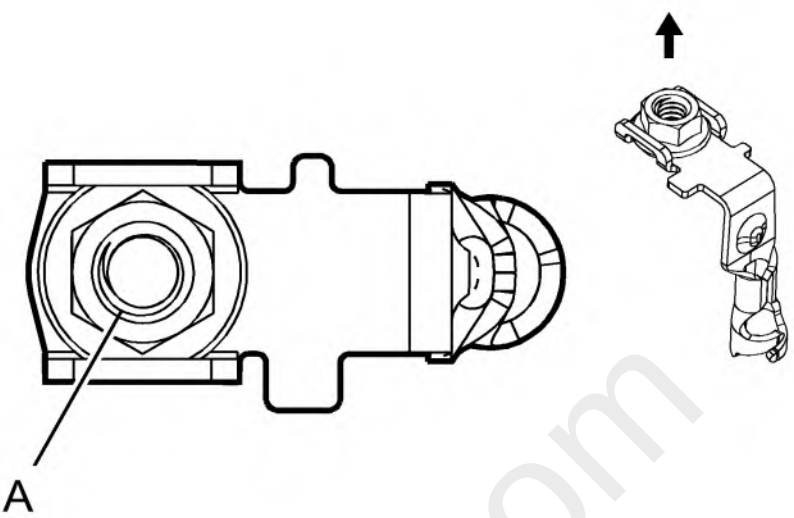
- Harness Type: Engine
- OEM Connector: 13946621
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way Ring Terminal

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	6	BN/BU	104	Glow Plug Control	I	-

X50A FUSE BLOCK - UNDERHOOD X6



Connector Part Information

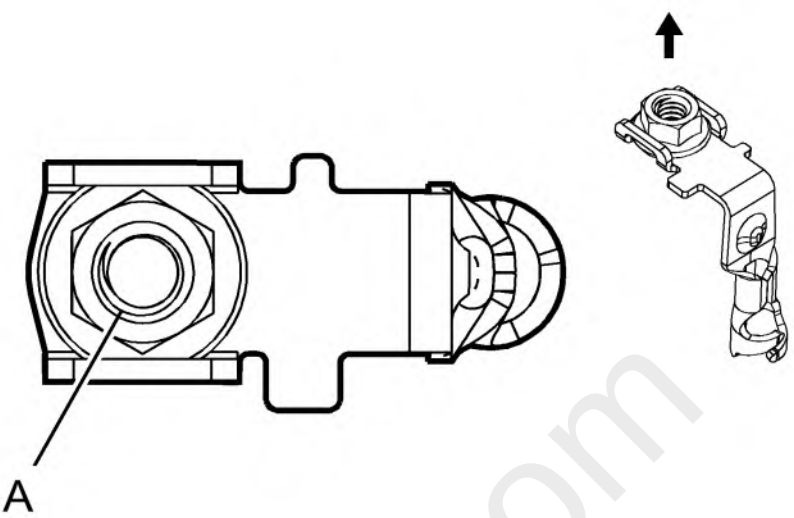
- Harness Type: Forward Lamp
- OEM Connector: 13946624
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way Ring Terminal

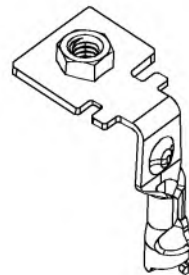
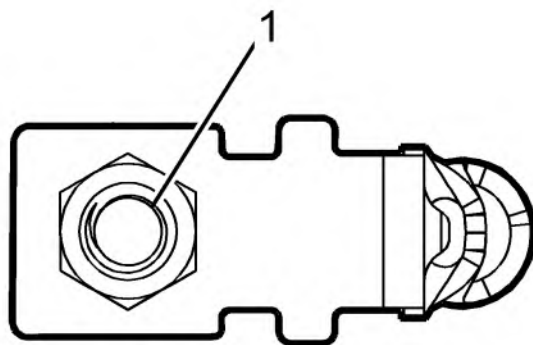
Terminal Part Information

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	8	RD/BU	302	Battery Positive Voltage	I	-

X50A FUSE BLOCK - UNDERHOOD X7





Connector Part Information

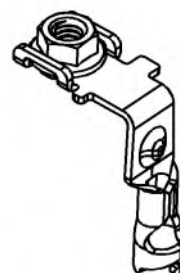
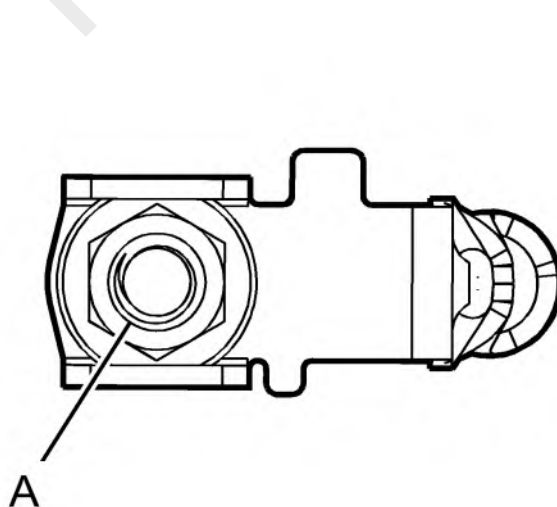
- Harness Type: Engine
- OEM Connector: 7209-5626-02
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way Ring Terminal

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	10	RD	2840	Battery Positive Voltage	I	-

X50A FUSE BLOCK - UNDERHOOD X8



Connector Part Information

- Harness Type: Body
- OEM Connector: 13946642

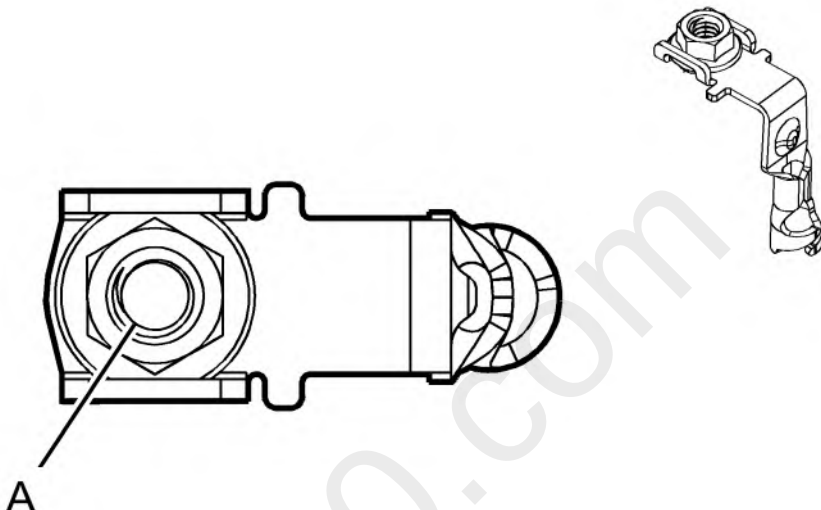
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way Ring Terminal

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	8	RD/VT	102	Battery Positive Voltage	I	-

X50A FUSE BLOCK - UNDERHOOD X9



Connector Part Information

- Harness Type: Body
- OEM Connector: 13946646
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way Ring Terminal

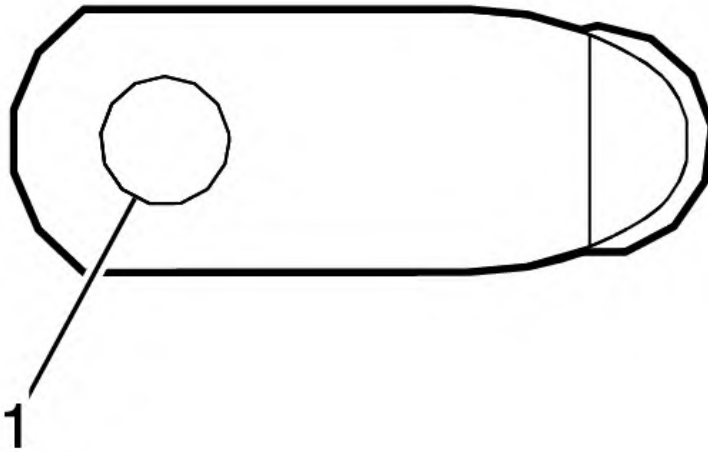
Terminal Part Information

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	8	RD/GN	502	Battery Positive Voltage	I	V92/TB5/TC2/NDE

X50A FUSE BLOCK - UNDERHOOD X11





Connector Part Information

- Harness Type: Battery Positive
- OEM Connector: 13644223
- 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	35	RD	2	Battery Positive Voltage	I	-

X50D FUSE BLOCK - BATTERY TOP VIEW

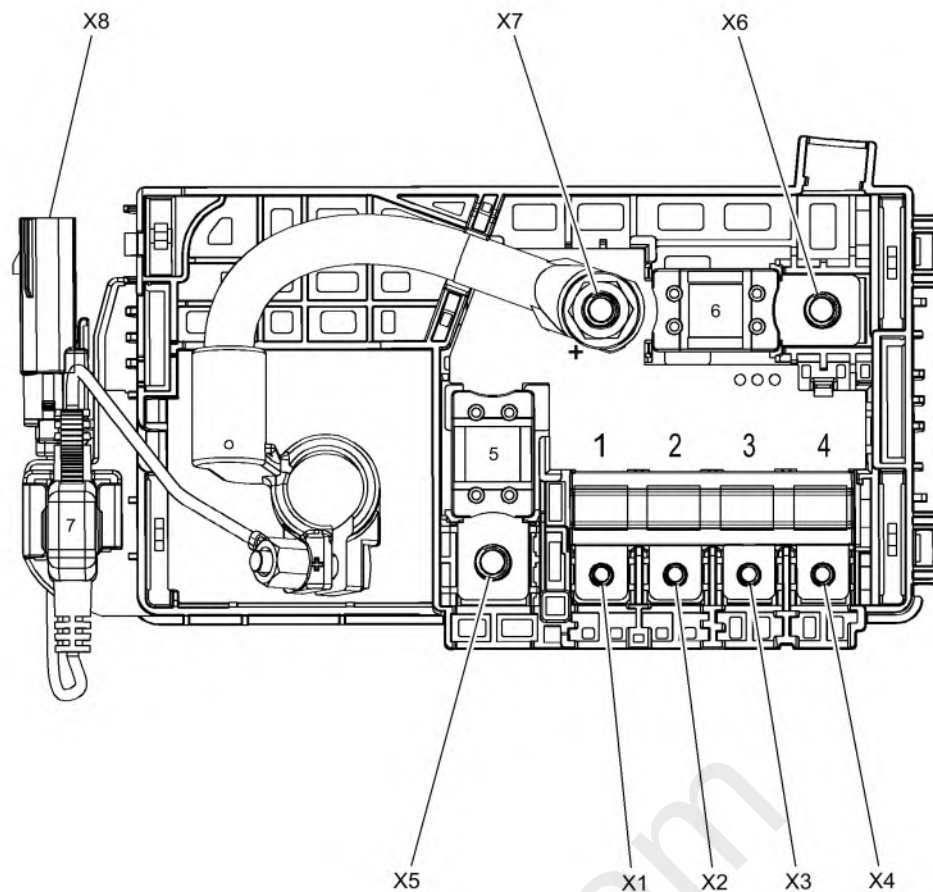


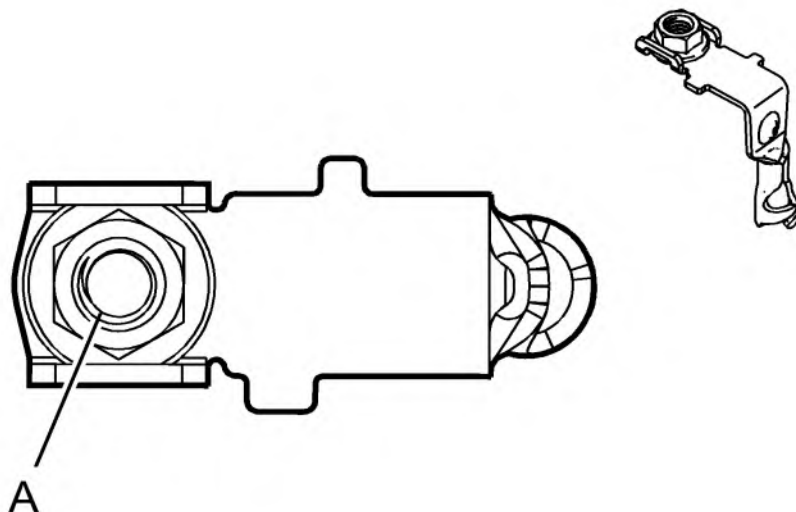
Fig. 6: X50D Fuse Block - Battery Top View
 Courtesy of GENERAL MOTORS COMPANY

X50D Fuse Block - Battery Usage

No.	Device Label Name	Device Assigned Name	Rating	Description
1	-	F1BA Fuse	100A	• X51A Fuse Block - Instrument Panel
2	-	F2BA Fuse	100A	• X51A Fuse Block - Instrument Panel
3	-	F3BA Fuse	40A	• T19 Power Supply Transformer
4	-	F4BA Fuse	100A	• E40 Electrical Auxiliary Heater (C32)
5	-	F5BA Fuse	500A	• G13 Generator • M64 Starter Motor
6	-	F6BA Fuse	250A	• X50A Fuse Block - Underhood
7	-	F7BA Fuse	5A	• B110 Battery Sensor Module (KL9)

X50D FUSE BLOCK - BATTERY X1

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Connector Part Information

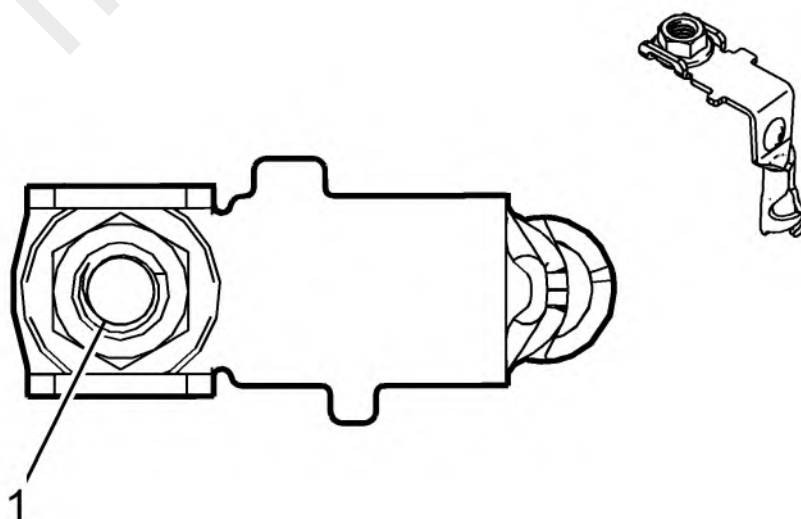
- Harness Type: Body
- OEM Connector: 13371976
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way Ring Terminal

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/GY	142	Battery Positive Voltage	I	-

X50D FUSE BLOCK - BATTERY X2



Connector Part Information

- Harness Type: Body
- OEM Connector: 13371977

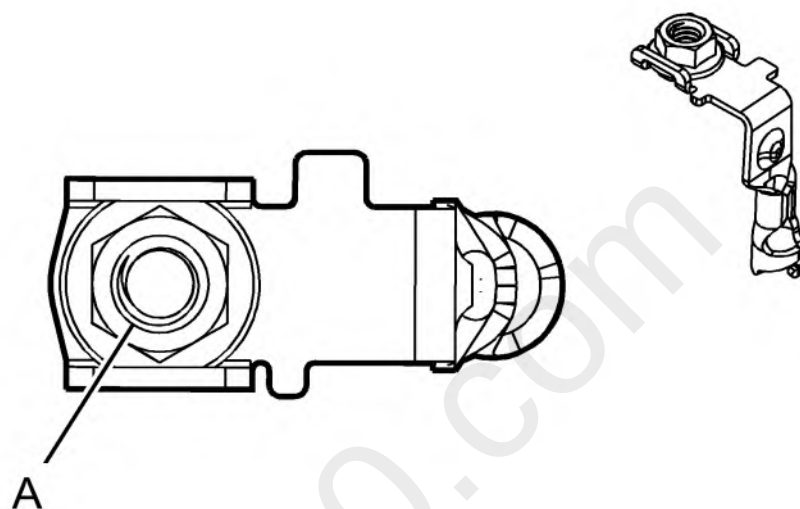
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way Ring Terminal

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	10	RD/BU	42	Battery Positive Voltage	I	-

X50D FUSE BLOCK - BATTERY X3 (KL9)



Connector Part Information

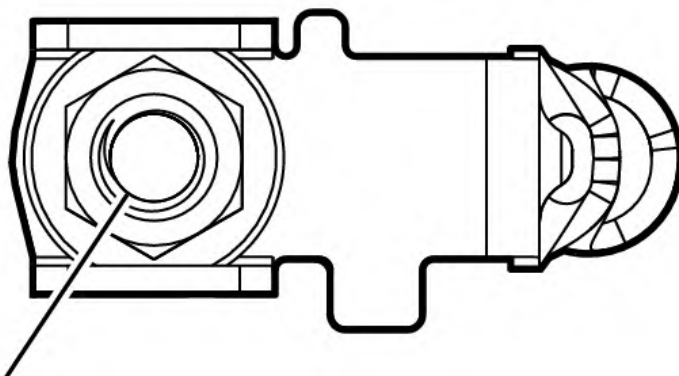
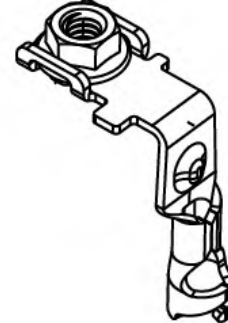
- Harness Type: Body
- OEM Connector: 13371979
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way Ring Terminal

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	6	RD/GY	1342	Battery Positive Voltage	I	KL9+X88
	4	RD/GY	1342	Battery Positive Voltage	I	KL9+Z88

X50D FUSE BLOCK - BATTERY X4 (C32)



A

Connector Part Information

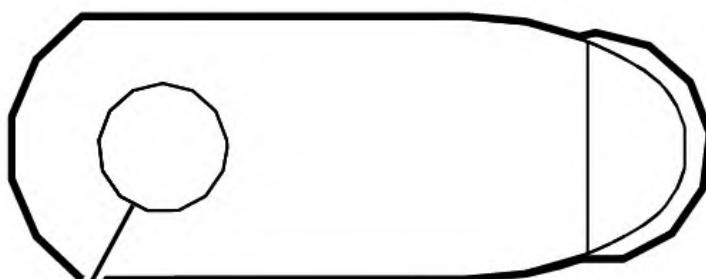
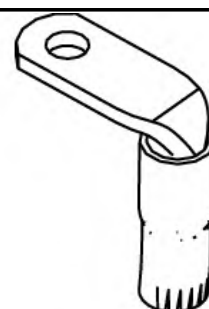
- Harness Type: Body
- OEM Connector: 13371978
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way Ring Terminal

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/BN	202	Battery Positive Voltage	I	C32

X50D FUSE BLOCK - BATTERY X5



1

Connector Part Information

- Harness Type: Starter - Battery Positive
- OEM Connector: 13644223

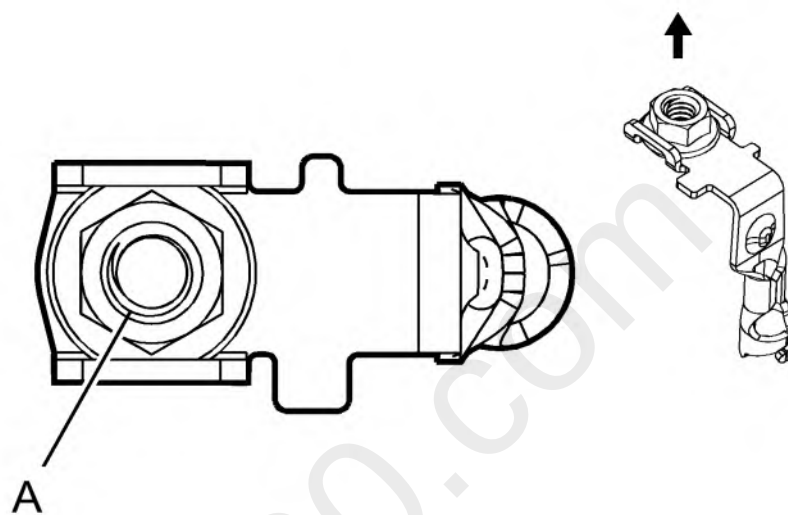
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way Ring Terminal

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	35	RD	2	Battery Positive Voltage	I	-

X50D FUSE BLOCK - BATTERY X6



Connector Part Information

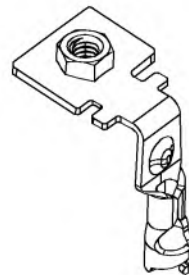
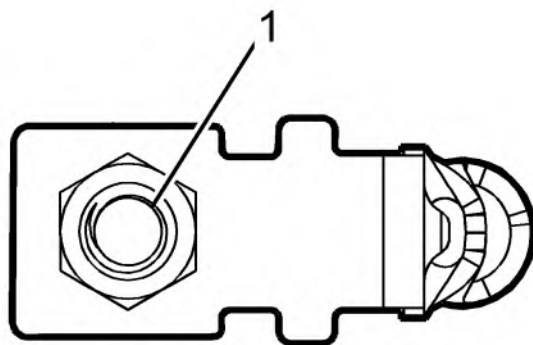
- Harness Type: Forward Lamp
- OEM Connector: 13946624
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way Ring Terminal

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	-	RD	2	Battery Positive Voltage	I	-

X50D FUSE BLOCK - BATTERY X7



Connector Part Information

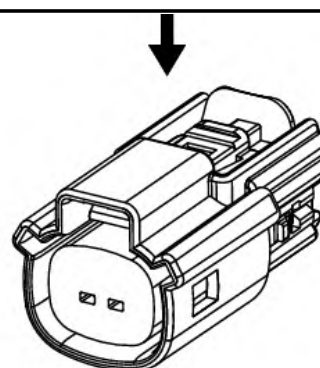
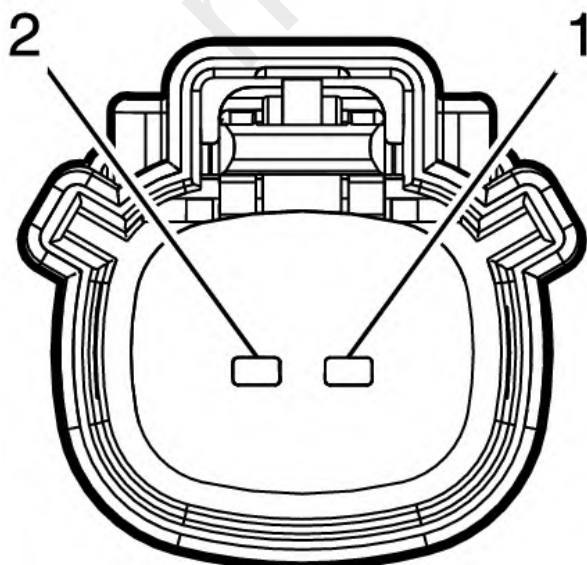
- Harness Type: Engine
- OEM Connector: 7209-5626-02
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way Ring Terminal

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	-	RD	1	Unfused Battery Positive Voltage	I	-

X50D FUSE BLOCK - BATTERY X8



Connector Part Information

- Harness Type: Body
- OEM Connector: 33471-0206
- Service Connector: 13577534
- Description: 2-Way F 1.5 Series, Sealed (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-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5 0.75	RD/BN RD/WH	2740 2740	Battery Positive Voltage Battery Positive Voltage	I I	KL9 LYX-KL9
2	-	-	-	Not Occupied	-	-

X51A FUSE BLOCK - INSTRUMENT PANEL LABEL

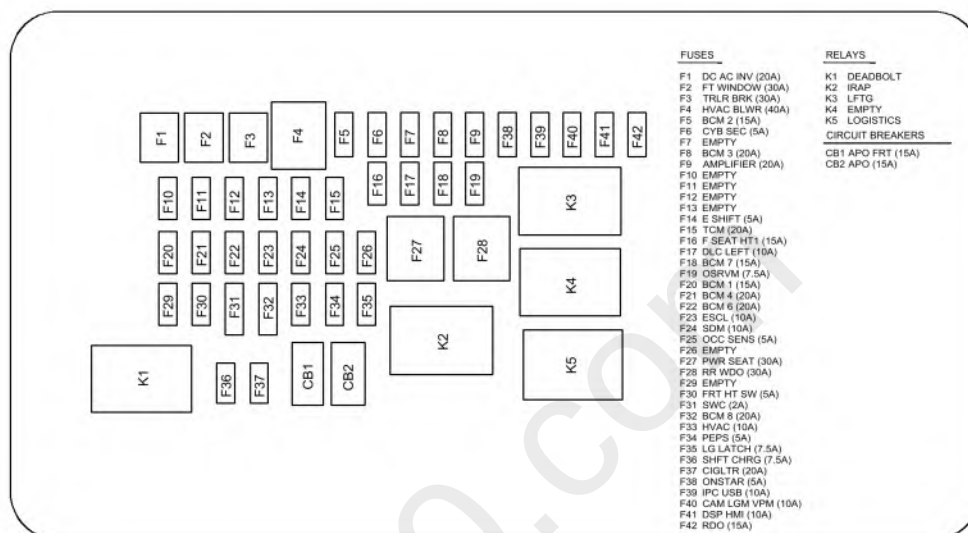


Fig. 7: X51A Fuse Block - Instrument Panel Label
Courtesy of GENERAL MOTORS COMPANY

X51A FUSE BLOCK - INSTRUMENT PANEL TOP VIEW

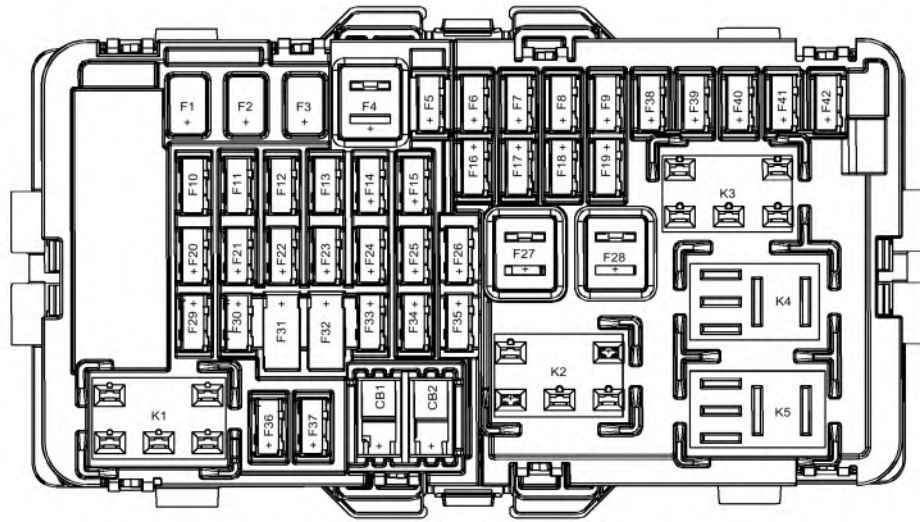


Fig. 8: X51A Fuse Block - Instrument Panel Top View
 Courtesy of GENERAL MOTORS COMPANY

X51A Fuse Block - Instrument Panel Fuse Usage

No.	Device Label Name	Device Assigned Name	Rating	Description
F1	DC AC INV	F1DA Fuse	20A	- T1 Accessory DC/AC Power Inverter Module (KI6) - T1 Accessory DC/AC Power Inverter Module (KI7)
F2	FT WINDOW	F2DA Fuse	30A	- M35D Window Motor Module - Driver (AXG) - S79P Window Switch - Passenger (AXG)
F3	TRLR BRK	F3DA Fuse	30A	W24 Blunt Cut - Trailer Brakes Provision (V92)
F4	HVAC BLWR	F4DA Fuse	40A	M8 Blower Motor
F5	BCM 2	F5DA Fuse	15A	K9 Body Control Module
F6	CYB SEC	F6DA Fuse	5A	K56 Serial Data Gateway Module
F7	EMPTY	F7DA Fuse	10A	Not Used
F8	BCM 3	F8DA Fuse	20A	K9 Body Control Module
F9	AMPLIFIER	F9DA Fuse	20A	T3 Audio Amplifier

No.	Device Label Name	Device Assigned Name	Rating	Description
F10	EMPTY	F10DA Fuse	30A	Not Used
F11	EMPTY	F11DA Fuse	30A	Not Used
F12	EMPTY	F12DA Fuse	30A	Not Used
F13	EMPTY	F13DA Fuse	30A	Not Used
F14	E SHIFT	F14DA Fuse	5A	A97 Transmission Range Selector Controls (EPH)
F15	TCM	F15DA Fuse	20A	- K71 Transmission Control Module (M3D/M3H/M3U) - Q8 Control Solenoid Valve Assembly (MHG/MNH/MNK)
F16	F SEAT HT1	F16DA Fuse	15A	K29F Seat Heating Control Module - Front (KA1)
F17	DLC LEFT	F17DA Fuse	10A	X84 Data Link Connector
F18	BCM 7	F18DA Fuse	15A	K9 Body Control Module
F19	OSRVM	F19DA Fuse	7.5A	- B177 Rain/Ambient Light Sensor Module - S79D Window Switch - Driver (AXG)
F20	BCM 1	F20DA Fuse	15A	K9 Body Control Module
F21	BCM 4	F21DA Fuse	20A	K9 Body Control Module
F22	BCM 6	F22DA Fuse	20A	K9 Body Control Module
F23	ESCL	F23DA Fuse	10A	Not Used
F24	SDM	F24DA Fuse	10A	K36 Inflatable Restraint Sensing and Diagnostic Module
F25	OCC SENS	F25DA Fuse	5A	K85 Passenger Presence Module (AL0)
F26	EMPTY	F26DA Fuse	30A	Not Used
F27	PWR SEAT	F27DA Fuse	30A	- K40 Seat Memory Control Module (A45/A74) - S64D Seat Adjuster Switch - Driver (AG1)
F28	RR WDO	F28DA Fuse	30A	- S79LR Window Switch - Left Rear (AEQ) - S79RR Window Switch - Right Rear (AEQ)

No.	Device Label Name	Device Assigned Name	Rating	Description
F29	EMPTY	F29DA Fuse	10A	Not Used
F30	FRT HT SW	F30DA Fuse	5A	- S32D Seat Heating Switch - Driver (Z88+KA1) - S32P Seat Heating Switch - Passenger (Z88+KA1)
F31	SWC	F31DA Fuse	2A	- X85 Steering Wheel Air Bag Coil - S70L Steering Wheel Controls Switch - Left - S70R Steering Wheel Controls Switch - Right
F32	BCM 8	F32DA Fuse	20A	K9 Body Control Module
F33	HVAC	F33DA Fuse	10A	- B10B Ambient Light/Sunload Sensor (CJ2 - UE1) - K33 HVAC Control Module
F34	PEPS	F34DA Fuse	5A	K84 Keyless Entry Control Module
F35	LG LATCH	F35DA Fuse	7.5A	KR95A Liftgate Unlatch Relay
F36	SHFT CHRГ	F36DA Fuse	7.5A	- T22 Mobile Device Wireless Charger Module (K4C) - X92 USB Receptacle (USS)
F37	CIGLTR	F37DA Fuse	20A	- E32 Cigarette Lighter Receptacle (SAO/U37) - X80G Accessory Power Receptacle - Instrument Panel (KC5)
F38	ONSTAR	F38DA Fuse	5A	K73 Telematics Communication Interface Control Module (UE1)
F39	IPC USB	F39DA Fuse	10A	- P16 Instrument Cluster - X83 Auxiliary Audio Input (MCZ) - X92 USB Receptacle
F40	CAM LGM VPM	F40DA Fuse	10A	- B174W Frontview Camera - Windshield (UEU/UHX) - K39 Liftgate Control Module (TB5) - K157 Video Processing Control Module (UVH) - K171 Hands-Free Liftgate Sensor - Control Module (TC2)

No.	Device Label Name	Device Assigned Name	Rating	Description
F41	DSP HMI	F41DA Fuse	10A	- A26 HVAC Controls - A98 Front Overhead Console Assembly - K74 Human Machine Interface Control Module (IO5/IO6) - K182 Parking Assist Control Module (UD5/UD7) - K188 Human Machine Interface Control Module Bypass Module (IO5/IO6 +MAH/MBC) - P17 Info Display Module - S25 Garage Door Opener (UG1)
F42	RDO	F42DA Fuse	15A	A11 Radio
Circuit Breakers				
CB1	APO FRT	CB1DA	15A	Not Used
CB2	APO	CB2DA	15A	X80L Accessory Power Receptacle - Center Console Rear (KPA)
Relays				
K01	DEADBOLT	-	-	Not Used
K02	IRAP	KR76 Retained Accessory Power Relay	-	- CB2DA - F36DA - F37DA
K03	LFTG	KR95A Liftgate Unlatch Relay	-	M30 Liftgate Latch (TB4)
K04	EMPTY	-	-	Not Used
K05	LOGISTICS	KR104A Battery Saver Relay 1	-	- F38DA - F39DA - F40DA - F41DA - F42DA

X51A FUSE BLOCK - INSTRUMENT PANEL WIRE ENTRY

Connector Part Information - Harness Type: Instrument Panel - OEM Connector: 33172518 - Service Connector: Service by Component Assembly - See Part Catalog - Description: -
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Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575523	J-35616-42 (RD)	J-38125-11A	Not Required	Not Required	Not Required	Not Required

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
II	13575824	J-35616-5 (PU)	J-38125-11A	Not Required	Not Required	Not Required	Not Required
III	13580023	J-35616-43 (RD)	J-38125-11A	Not Required	Not Required	Not Required	Not Required
IV	19300649	J-35616-4A (PU)	J-38125-215A	Not Required	Not Required	Not Required	Not Required
V	19301752	J-35616-35 (VT)	J-38125-215A	Not Required	Not Required	Not Required	Not Required
VI	19301752	J-35616-4A (PU)	J-38125-215A	Not Required	Not Required	Not Required	Not Required
VII	19301761	J-35616-35 (VT)	J-38125-215A	Not Required	Not Required	Not Required	Not Required
VIII	19301761	J-35616-4A (PU)	J-38125-215A	Not Required	Not Required	Not Required	Not Required
IX	19367541	J-35616-42 (RD)	J-38125-215A	Not Required	Not Required	Not Required	Not Required
X	19368518	J-35616-43 (RD)	J-38125-11A	Not Required	Not Required	Not Required	Not Required
XI	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	XI	-
2	10	RD/GY	142	Battery Positive Voltage	XI	-
3	4	RD/GY	142	Battery Positive Voltage	XI	-
6	1.5	RD/WH	2040	Battery Positive Voltage	II	-
9	1	RD/GY	4840	Battery Positive Voltage	VIII	-
13	2.5	RD/BN	3640	Battery Positive Voltage	II	-
16	1	RD/BU	4540	Battery Positive Voltage	VIII	-
17	0.35	RD/YE	2340	Battery Positive Voltage	IV	D2UG+KA1 LTG
	0.35	RD/YE	2340	Battery Positive Voltage	VII	
20	1	RD/WH	4740	Battery Positive Voltage	VIII	-
	0.35	RD/BU	2540	Battery Positive Voltage	VII	EPH
21	0.35	RD/BU	2540	Battery Positive Voltage	IV	-EPH
	0.35	RD/BU	2540	Battery Positive Voltage	IV	-EPH
22	0.35	VT	4601	Retained Accessory Power Fused Control	VII	K4C+USS USS-K4C
	0.35	VT	4601	Retained Accessory Power Fused Control	IV	
23	2.5	RD/GN	4042	Battery Positive Voltage	II	-
26	0.5	RD/VT	3340	Battery Positive Voltage	IV	N06
27	1	RD/BN	4940	Battery Positive Voltage	VIII	-
28	1.5	VT	1301	Retained Accessory Power Fuse Control	VI	-
29	4	RD/BU	840	Battery Positive Voltage	X	-
30	0.35	RD/BN	440	Battery Positive Voltage	IV	EPH EPH+LYX/LTG
	0.35	RD/BN	440	Battery Positive Voltage	VII	
31	2.5	RD/GN	2173	12V Regulated Supply Voltage 2	VI	EPH
32	0.35	RD/BN	2240	Battery Positive Voltage	IV	AJG/AYC AY0
	0.35	RD/BN	2240	Battery Positive Voltage	VII	
33	0.35	RD/GN	742	Battery Positive Voltage	VII	UE1 -UE1-UE3
	0.35	RD/GN	742	Battery Positive Voltage	IV	
35	0.75	RD/YE	4340	Battery Positive Voltage	VIII	-
36	1.5	RD/GN	2173	12V Regulated Supply Voltage 2	VI	KL9+MM1
37	2.5	RD/GN	2173	12V Regulated Supply Voltage 2	VI	KL9+MM1
38	0.35	RD/GN	2440	Battery Positive Voltage	IV	AL0
39	0.35	RD/WH	4042	Battery Positive Voltage	IV	-
40	1.5	VT	1701	Retained Accessory Power Ignition	VI	KPA LTG
	1.5	VT	1701	Retained Accessory Power Ignition	V	
	1.5	VT	1701	Retained Accessory Power Ignition	V	

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
41	0.35	RD/GN	3140	Battery Positive Voltage	IV	-
42	0.5	RD/GY	1740	Battery Positive Voltage	IV	KA1/KU1/KU3 LTG
	0.5	RD/GY	1740	Battery Positive Voltage	VII	
44	0.5	RD/BU	5240	Battery Positive Voltage	VII	-KL9 TB4
	0.5	RD/BU	5240	Battery Positive Voltage	IV	
46	0.5	RD/VT	2640	Battery Positive Voltage	IV	-
47	2	RD/BN	2940	Battery Positive Voltage	III	-
48	0.35	GY/GN	4083	RAP Relay 2 Coil Control	VII	KI6/KI7 -KI6-KI7
	0.35	GY/GN	4083	RAP Relay 2 Coil Control	IV	
49	1	RD/GN	4440	Battery Positive Voltage	VIII	-
50	1	RD/BN	4240	Battery Positive Voltage	VIII	-
51	2	RD/VT	5340	Battery Positive Voltage	VI	NKC+UZ6-IOR UQA+IOT
	2	RD/VT	5340	Battery Positive Voltage	VII	
52	0.35	RD/BN	1440	Battery Positive Voltage	IV	-
53	2.5	RD/YE	3740	Battery Positive Voltage	III	-
54	2	BK	1650	Ground	VI	-
55	0.35	RD/GY	2140	Battery Positive Voltage	VII	LYX/LFV/LTG UE3
	0.35	RD/GY	2140	Battery Positive Voltage	IV	
56	0.35	RD/BN	2240	Battery Positive Voltage	IV	-
57	0.35	RD/GN	2440	Battery Positive Voltage	IV	-
58	0.35	RD/BU	2540	Battery Positive Voltage	IV	-
59	1	RD/YE	5040	Battery Positive Voltage	VIII	IO5/IO6 IOB UKS
	0.75	RD/YE	5040	Battery Positive Voltage	VIII	
	0.75	RD/YE	5040	Battery Positive Voltage	VII	
60	0.35	BK	1650	Ground	IV	TB4
61	0.5	RD/BU	5240	Battery Positive Voltage	IV	-
64	0.35	GY/VT	3264	Logistic Mode Relay Close Control	I	-
65	0.35	BK	1650	Ground	I	-
66	0.35	VT/BU	3263	Logistic Mode Relay Open Control	I	-
69	4	GY/BN	3761	Infotainment Regulated Control	IX	-
70	0.35	BU/WH	6128	Rear Closure Unlatch Motor Unlatch Control	VII	T4A+MAH/MBC/MCX/MBI-D2UG TB4
	0.35	BU/WH	6128	Rear Closure Unlatch Motor Unlatch Control	IV	
71	0.35	GY/YE	6188	Lift Glass/Rear Compartment Lid Motor Release Control	IV	TB4
74	4	RD/GY	142	Battery Positive Voltage	IX	-
75	4	GY/BN	3761	Infotainment Regulated Control	XI	-

X53A FUSE BLOCK - REAR BODY LABEL

- Connector Part Information • Harness Type: Body • OEM Connector: 23277914 • Service Connector: Service by Component Assembly - See Part Catalog • Description: Wire Entry Fuse Block							
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Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13327158	J-35616-42 (RD)	J-38125-215A	Not Required	Not Required	Not Required	Not Required
II	13327178	J-35616-43 (RD)	J-38125-215A	Not Required	Not Required	Not Required	Not Required
III	13575490	J-35616-35 (VT)	J-38125-215A	Not Required	Not Required	Not Required	Not Required

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
IV	13575491	J-35616-35 (VT)	J-38125-215A	Not Required	Not Required	Not Required	Not Required
V	13575523	J-35616-42 (RD)	J-38125-215A	Not Required	Not Required	Not Required	Not Required
VI	13575771	J-35616-42 (RD)	J-38125-215A	Not Required	Not Required	Not Required	Not Required
VII	13575780	J-35616-35 (VT)	J-38125-215A	Not Required	Not Required	Not Required	Not Required
VIII	13575781	J-35616-35 (VT)	J-38125-215A	Not Required	Not Required	Not Required	Not Required
IX	13586058	J-35616-42 (RD)	J-38125-215A	Not Required	Not Required	Not Required	Not Required
X	19355423	J-35616-22 (RD)	J-38125-12A	Not Required	Not Required	Not Required	Not Required
XI	19367541	J-35616-42 (RD)	J-38125-215A	Not Required	Not Required	Not Required	Not Required
XII	19368322	J-35616-35 (VT)	J-38125-215A	Not Required	Not Required	Not Required	Not Required
XIII	19368322	J-35616-43 (RD)	J-38125-215A	Not Required	Not Required	Not Required	Not Required
XIV	19368417	J-35616-22 (RD)	J-38125-12A	Not Required	Not Required	Not Required	Not Required
XV	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
A4	3	GN/GY	9	Park Lamp Control	XII	YTH
A5	3	GN/GY	9	Park Lamp Control	XII	YTH
A8	0.35	RD/VT	1940	Battery Positive Voltage	III	F48+YTH
A9	0.35	RD/GN	1540	Battery Positive Voltage	III	-
A10	1.5	RD/VT	3340	Battery Positive Voltage	IV	KC8+YTH
A11	2.5	RD/VT	1640	Battery Positive Voltage	II	F48+YTH
A16	0.35	WH/YE	1204	Left Park Lamp Control	III	(YTH+MAH/MBC/MCX/MAO/MBI/D2UG/V9V)/(UGE+YTH)
A17	0.35	VT	1203	Right Park Lamp Control	III	(YTH+MAH/MBC/MCX/MAO/MBI/D2UG/V9V)/(UGE+YTH)
A20	3	RD/WH	1340	Battery Positive Voltage	XIII	NDE+YTH
A21	3	RD/GN	502	Battery Positive Voltage	XIII	YTH+TB5/TC2
A23	1.5	RD/GN	502	Battery Positive Voltage	II	NDE+YTH
A24	2.5	RD/GY	3540	Battery Positive Voltage	II	YTH+TB5/TC2
A26	2	RD/YE	240	Battery Positive Voltage	VIII	YTH+AG2/ADT

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A27	0.35	RD/GN	3840	Battery Positive Voltage	III	(A45/A74+YTH)/(UEU/UHX+YTH-EPH)/(EPH+UKC+YTH)
A28	2	RD/BU	540	Battery Positive Voltage	VIII	YTH+C3U/CF5
A29	0.35	RD/BN	1140	Battery Positive Voltage	III	UKC+YTH
A31	0.5	RD/GN	1840	Battery Positive Voltage	VII	KA6+YTH
A32	1.5	RD/YE	740	Battery Positive Voltage	IV	YTH-NDE-TB5-TC2-V92
A33	0.5	RD/BN	5940	Battery Positive Voltage	VII	KA6+YTH
B2	2.5	BU	3921	DEF Heater Supply 1	X	NDE+YTH
B4	0.75	RD/GN	502	Battery Positive Voltage	IX	NDE+YTH
B6	0.35	GN/BU	3889	DEF Power Module Relay Control	IX	NDE+YTH
B8	3	RD/WH	1340	Battery Positive Voltage	XIV	NDE+YTH
C11	0.5	RD/GN	502	Battery Positive Voltage	I VI	YTH+V92/TB5/TC2/NDE YTH-NDE-TB5-TC2-V92
	1.5	RD/YE	740	Battery Positive Voltage		
C12	0.35	BU	45	Park Lamp Relay Control	V	YTH+RHD/MVL/MAY/MBA/MAM/MJL/MAW/MQL/MDW-EPH
C13	3	GN/GY	9	Park Lamp Control	XI	YTH
C15	1.5	RD/GN	502	Battery Positive Voltage	VI VI	YTH+V92/TB5/TC2/NDE YTH-NDE-TB5-TC2-V92
	1.5	RD/YE	740	Battery Positive Voltage		
X4	8	RD/VT	102	Battery Positive Voltage	XV	YTH

X53A FUSE BLOCK - REAR BODY TOP VIEW

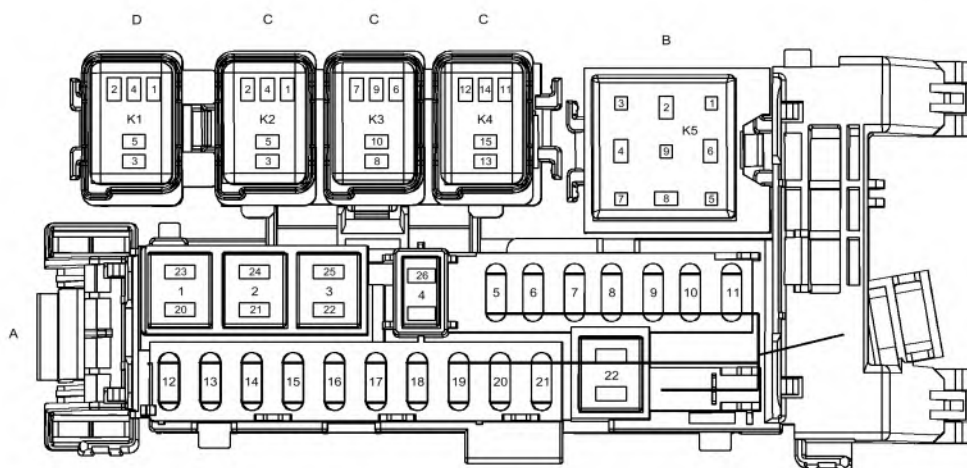


Fig. 9: X53A Fuse Block - Rear Body Top View

Courtesy of GENERAL MOTORS COMPANY

X53A Fuse Block - Rear Body Usage

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
1	EXH FUEL HTR	F1RA Fuse	30A	• KR121A Reductant Control Module Relay 1 (LH7)
2	L/GATE	F2RA Fuse	30A	• K39 Liftgate Control Module (TB5)
3	TRLR AUX PWR	F3RA Fuse	30A	• X88 Trailer Connector (V92)
4	PWR SEAT	F4RA Fuse	25A	• S64P Seat Adjuster Switch - Passenger
5	MSM	F5RA Fuse	10A	• K40D Seat Memory Control Module - Driver (A45)
6	S/ROOF	F6RA Fuse	30A	• K61 Sunroof Control Module (C3U)
7	SBZA	F7RA Fuse	7.5A	• B218L Side Object Sensor Module - Left (UKC) • B218R Side Object Sensor Module - Right (UKC)
8	TRLR_BCK/UP	F8RA Fuse	10A	• KR61 Trailer Backup Lamps Relay (V92)

No.	Device Label Name	Device Assigned Name	Rating	Description
9	RR HTD/SEAT 1	F9RA Fuse	15A	- K29R Seat Heating Control Module - Rear (KA6) - S32LR Seat Heating Switch - Left Rear (KA6) - S32RR Seat Heating Switch - Right Rear (KA6)
10	PRK	F10RA Fuse	25A	KR53 Park Lamps Relay
11	RR HTD/SEAT 2	F11RA Fuse	15A	K29R Seat Heating Control Module - Rear (KA6)
12	EMPTY	F12RA Fuse	-	Not Used
13	TRLR PRK	F13RA Fuse	15A	X88 Trailer Connector (V92)
14	RT TRLR TRN/SIG	F14RA Fuse	10A	- X88 Trailer Connector (-V92) - X88 Trailer Connector (V92)
15	LT PRK	F15RA Fuse	10A	- E2LF Side Marker Lamp - Left Front - E5LD Tail/Stop Lamp - Left Inner - E5LE Tail/Stop Lamp - Left Outer - E13LA Headlamp Assembly - Left - E42L Tail Lamp Assembly - Left - E43L Liftgate Tail Lamp Assembly - Left
16	RT PRK	F16RA Fuse	10A	- E2RF Side Marker Lamp - Right Front - E5RD Tail/Stop Lamp - Right Inner - E5RE Tail/Stop Lamp - Right Outer - E13RA Headlamp Assembly - Right - E42R Tail Lamp Assembly - Right - E43R Liftgate Tail Lamp Assembly - Right
17	EMPTY	F17RA Fuse	-	Not Used
18	LT TRLR TRN/SIG	F18RA Fuse	10A	- X88 Trailer Connector (-V92) - X88 Trailer Connector (V92)
19	AWD	F19RA Fuse	10A	K47 Rear Differential Clutch Control Module (F48)
20	LUM	F20RA Fuse	10A	- S65D Seat Lumbar Support Switch - Driver (AL9) - S65P Seat Lumbar Support Switch - Passenger (AT9)
21	REAR APO	F21RA Fuse	20A	X80C Accessory Power Receptacle - Cargo (KC8)

No.	Device Label Name	Device Assigned Name	Rating	Description
22	REAR AWD	F22RA Fuse	40A	K47 Rear Differential Clutch Control Module (F48)
Relays				
K1	TRLR STOP/TRN	KR63R Trailer Stop/Turn Signal Lamp Relay - Right (V92)	-	X88 Trailer Connector (V92)
K2	TRLR_BCK/UP	Trailer Backup Lamps Relay (V92)	-	X88 Trailer Connector (V92)
K3	TRLR STOP/TRN	KR63L Trailer Stop/Turn Signal Lamp Relay - Left (V92)	-	X88 Trailer Connector (V92)
K4	PRK	KR53 Park Lamps Relay	-	- F13RA - F15RA - F16RA
K5	DIESEL EXH FUEL TNK HTR	KR121A Reductant Control Module Relay 1	-	K115 Reductant Control Module (LH7)

X53A FUSE BLOCK - REAR BODY WIRE ENTRY

Connector Part Information - Harness Type: Body - OEM Connector: 23277914 - Service Connector: Service by Component Assembly - See Part Catalog - Description: -
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Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13327178	J-35616-43 (RD)	J-38125-215A	Not Required	Not Required	Not Required	Not Required
II	13575490	J-35616-35 (VT)	J-38125-215A	Not Required	Not Required	Not Required	Not Required
III	13575491	J-35616-35 (VT)	J-38125-215A	Not Required	Not Required	Not Required	Not Required
IV	13575523	J-35616-42 (RD)	J-38125-215A	Not Required	Not Required	Not Required	Not Required
V	13575771	J-35616-42 (RD)	J-38125-215A	Not Required	Not Required	Not Required	Not Required
VI	13575780	J-35616-35 (VT)	J-38125-215A	Not Required	Not Required	Not Required	Not Required
VII	13575781	J-35616-35 (VT)	J-38125-215A	Not Required	Not Required	Not Required	Not Required
VIII	13586058	J-35616-42 (RD)	J-38125-11A	Not Required	Not Required	Not Required	Not Required
IX	19355423	J-35616-22 (RD)	J-38125-12A	Not Required	Not Required	Not Required	Not Required
X	19367541	J-35616-42 (RD)	J-38125-215A	Not Required	Not Required	Not Required	Not Required
XI	19368322	J-35616-35 (VT)	J-38125-215A	Not Required	Not Required	Not Required	Not Required
XII	19368322	J-35616-43 (RD)	J-38125-215A	Not Required	Not Required	Not Required	Not Required

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
XIII	19368417	J-35616-22 (RD)	J-38125-12A	Not Required	Not Required	Not Required	Not Required
XIV	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
A4	3	GN/GY	9	Park Lamp Control	XI	MY19+YTH
A5	3	GN/GY	9	Park Lamp Control	XI	MY19+YTH
A8	0.35	RD/VT	1940	Battery Positive Voltage	II	MY19+F48+YTH
A9	0.35	RD/GN	1540	Battery Positive Voltage	II	-
A10	1.5	RD/VT	3340	Battery Positive Voltage	I	MY19+KC8+YTH
A11	2.5	RD/VT	1640	Battery Positive Voltage	I	MY19+KC8+YTH
A16	0.35	WH/YE	1204	Left Park Lamp Control	II	(MY19+YTH+MAH/MBC/MCX/MAO/MBI/D2UG/V9V)/(MY19+UGE+YTH)
A17	0.35	VT	1203	Right Park Lamp Control	II	(MY19+YTH+MAH/MBC/MCX/MAO/MBI/D2UG/V9V)/(MY19+UGE+YTH)
A20	3	RD/WH	1340	Battery Positive Voltage	XII	MY19+NDE+YTH
A21	3	RD/GN	502	Battery Positive Voltage	XII	MY19+YTH+TB5/TC2
A23	1.5	RD/GN	502	Battery Positive Voltage	I	MY19+NDE+YTH
A24	2.5	RD/GY	3540	Battery Positive Voltage	I	MY19+YTH+TB5/TC2
A26	2	RD/YE	240	Battery Positive Voltage	VII	MY19+YTH+AG2/ADT
A27	0.35	RD/GN	3840	Battery Positive Voltage	II	(MY19+A45/A74+YTH)/(MY19+UEU/UHX+YTH-EPH)/(MY19+EPH+UKC+YTH)
A28	2	RD/BU	540	Battery Positive Voltage	VII	MY19+YTH+C3U/CF5
A29	0.35	RD/BN	1140	Battery Positive Voltage	II	MY19+UKC+YTH
A31	0.5	RD/GN	1840	Battery Positive Voltage	VI	MY19+KA6+YTH
A32	1.5	RD/YE	740	Battery Positive Voltage	III	MY19+YTH-NDE-TB5-TC2-V92

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A33	0.5	RD/BN	5940	Battery Positive Voltage	VI	MY19+KA6+YTH
B2	2.5	BU	3921	DEF Heater Supply 1	IX	MY19+NDE+YTH
B4	0.75	RD/GN	502	Battery Positive Voltage	VIII	MY19+NDE+YTH
B6	0.35	GN/BU	3889	DEF Power Module Relay Control	VIII	MY19+NDE+YTH
B8	3	RD/WH	1340	Battery Positive Voltage	XIII	MY19+NDE+YTH
C11	0.5 1.5	RD/GN RD/YE	502 740	Battery Positive Voltage Battery Positive Voltage	IV V	MY19+YTH+V92/TB5/TC2/NDE MY19+YTH-NDE-TB5-TC2-V92
C12	0.35	BU	45	Park Lamp Relay Control	IV	MY19+YTH+RHD/MVL/MAY/MBA/MAM/MJL/MAW/MQL/MDW-EPH
C13	3	GN/GY	9	Park Lamp Control	X	MY19+YTH
C15	1.5 1.5	RD/GN RD/YE	502 740	Battery Positive Voltage Battery Positive Voltage	V V	MY19+YTH+V92/TB5/TC2/NDE MY19+YTH-NDE-TB5-TC2-V92
X4	8	RD/VT	102	Battery Positive Voltage	XIV	MY19+YTH