

2017 ELECTRICAL

Wiring Systems and Power Management - Component Locator - Electrical Center Identification Views - CT6

ELECTRICAL CENTER IDENTIFICATION VIEWS

X50A FUSE BLOCK - UNDERHOOD LABEL (HP9)

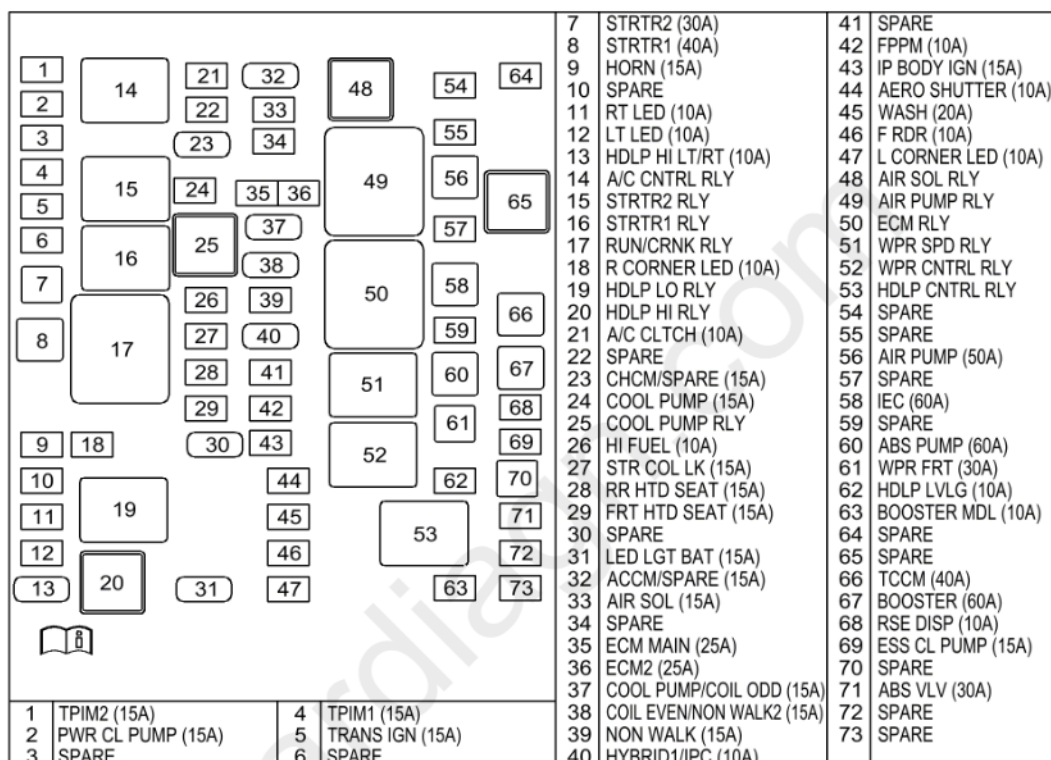


Fig. 1: X50A Fuse Block - Underhood Label (HP9)

Courtesy of GENERAL MOTORS COMPANY

X50A FUSE BLOCK - UNDERHOOD LABEL (KL9)

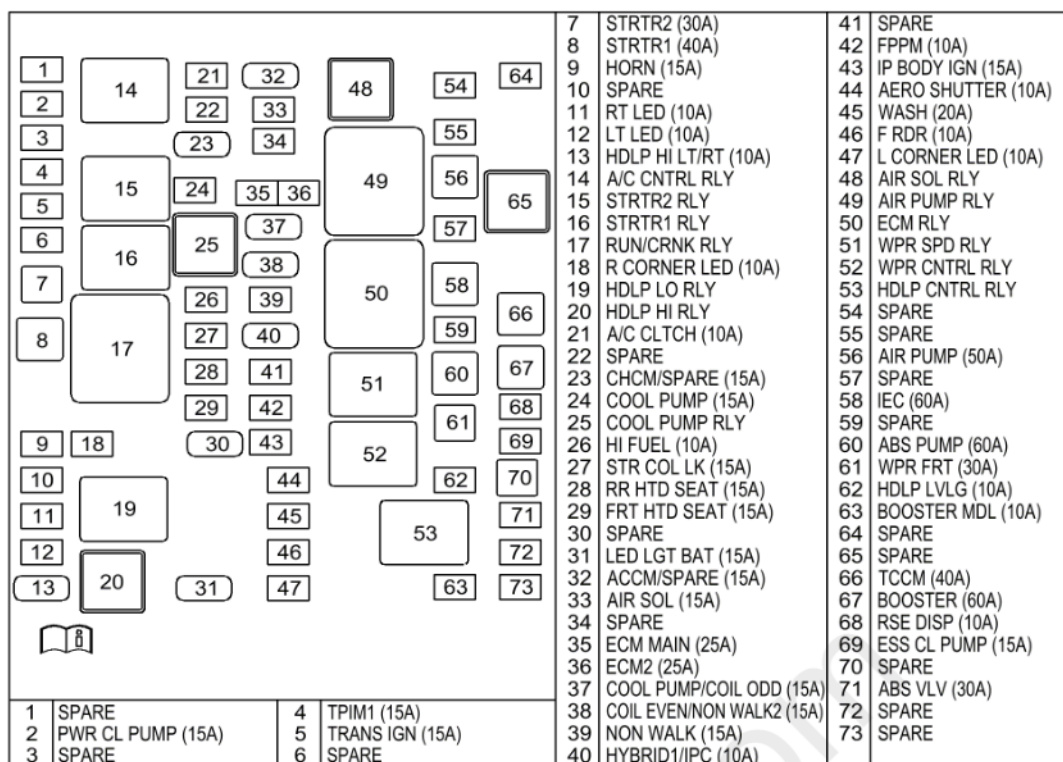


Fig. 2: X50A Fuse Block - Underhood Label (KL9)

Courtesy of GENERAL MOTORS COMPANY

X50A FUSE BLOCK - UNDERHOOD TOP VIEW

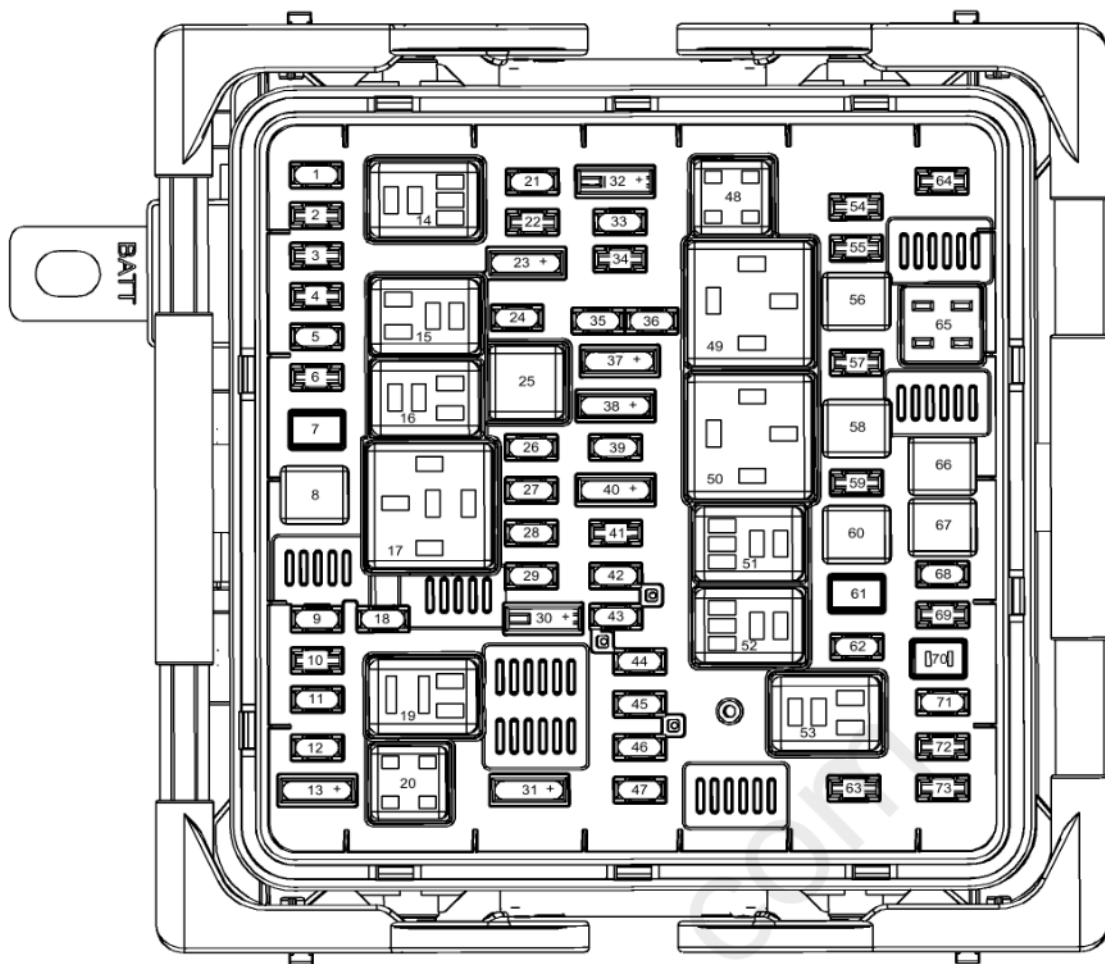


Fig. 3: X50A Fuse Block - Underhood Top View
Courtesy of GENERAL MOTORS COMPANY

X50A FUSE BLOCK - UNDERHOOD FUSE AND RELAY IDENTIFICATION LEGEND (KL9)

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
1	TPIM2	F1UA	15A	T6 Power Inverter Module (HP9)
2	PWR CL PUMP	F2UA	15A	G35 Hybrid/EV Electronics Coolant Pump (HP9)
3	SPARE	F3UA	-	-
4	TPIM1	F4UA	15A	T6 Power Inverter Module (HP9)

No.	Device Label Name	Device Assigned Name	Rating	Description
5	TRANS IGN	F5UA	15A	- K69 Transfer Case Control Module (F46) - K71 Transmission Control Module - T6 Power Inverter Module (HP9)
6	SPARE	F6UA	-	-
7	STRTR2	F7UA	30A	KR27 Starter Relay
8	STRTR1	F8UA	40A	KR27C Starter Pinion Solenoid Actuator Relay
9	HORN	F9UA	15A	P13 Horn Assembly
10	SPARE	F10UA	-	-
11	RT LED	F11UA	10A	-
12	LT LED	F12UA	10A	-
13	HDLP HI LT/RT	F13UA	10A	- K26L Headlamp Control Module - Left - K26R Headlamp Control Module - Right
18	R CORNER LED	F18UA	10A	E4B Cornering Lamp - Right (T87)
21	A/C CLTCH	F21UA	10A	KR29 A/C Compressor Clutch Relay
22	SPARE	F22UA	-	-
23	CHCM/SPARE	F23UA	15A	K10 Coolant Heater Control Module (HP9)
24	COOL PUMP	F24UA	15A	G36 Auxiliary Heater Coolant Pump (HP9)

No.	Device Label Name	Device Assigned Name	Rating	Description
26	HI FUEL	F26UA	10A	• K20 Engine Control Module • Q40A Turbocharger 1 Bypass Solenoid Valve (LGW) • Q40B Turbocharger 2 Bypass Solenoid Valve (LGW)
27	STR COL LK	F27UA	15A	• K60 Steering Column Lock Module (ULS)
28	RR HTD SEAT	F28UA	15A	• K29R Seat Heating Control Module - Rear (KA6)
29	FRT HTD SEAT	F29UA	15A	• K29F Seat Heating Control Module - Front (KA1)
30	SPARE	F30UA	-	• -
31	LED LGT BAT	F31UA	15A	• K26L Headlamp Control Module - Left • K26R Headlamp Control Module - Right • K166L Multifunction LED Control Module - Left Headlamp • K166R Multifunction LED Control Module - Right Headlamp • M29L Headlamp Leveling Actuator - Left • M29R Headlamp Leveling Actuator - Right
32	ACCM/SPARE	F32UA	15A	• G1 A/C Compressor (HP9)
33	AIR SOL	F33UA	30A	• -
34	SPARE	F34UA	-	• -

No.	Device Label Name	Device Assigned Name	Rating	Description
35	ECM MAIN	F35UA	25A	• K20 Engine Control Module
36	ECM2	F36UA	25A	• K20 Engine Control Module (LGW)
37	COOL PUMP/COIL ODD	F37UA	15A	• K20 Engine Control Module • M10 Charge Air Cooler Coolant Pump (LGW) • T8A Ignition Coil 1 • T8B Ignition Coil 2 (LTG) • T8C Ignition Coil 3 • T8D Ignition Coil 4 (LTG) • T8E Ignition Coil 5 (LGW/LGX)

No.	Device Label Name	Device Assigned Name	Rating	Description
38	COIL EVEN/NON WALK2	F38UA	15A	• B52A Heated Oxygen Sensor 1 (LTG) • B52C Heated Oxygen Sensor - Bank 1 Sensor 1 (LGW/LGX) • B52E Heated Oxygen Sensor - Bank 2 Sensor 1 (LGW/LGX) • K20 Engine Control Module (LGW/LGX) • Q12 Evaporative Emission Purge Solenoid Valve • Q40 Turbocharger Bypass Solenoid Valve (LTG) • Q42 Turbocharger Wastegate Solenoid Valve (LTG) • Q44 Engine Oil Pressure Control Solenoid Valve • Q83A Valve Lifter Oil Solenoid Valve - Bank 1 (LGW/LGX) • Q83B Valve Lifter Oil Solenoid Valve - Bank 2 (LGW/LGX) • Q84A Camshaft Position Actuator Park Lock Solenoid Valve - Bank 1 Intake (LGW/LGX) • Q84B Camshaft Position Actuator Park Lock Solenoid Valve - Bank 2 Intake (LGW/LGX) • T8B Ignition Coil 2 (LGW/LGX) • T8D Ignition Coil 4 (LGW/LGX) • T8F Ignition Coil 6 (LGW/LGX)

No.	Device Label Name	Device Assigned Name	Rating	Description
39	NON WALK	F39UA	15A	• B52B Heated Oxygen Sensor 2 (LTG) • B52D Heated Oxygen Sensor - Bank 1 Sensor 2 (LGW/LGX) • B52F Heated Oxygen Sensor - Bank 2 Sensor 2 (LGW/LGX) • B75B Mass Air Flow/Intake Air Temperature Sensor (LGW) • B75C Multifunction Intake Air Sensor • B280 Automatic Transmission Accumulator Solenoid Valve • K20 Engine Control Module
40	HYBRID1/IPC	F40UA	10A	• G1 A/C Compressor (HP9) • K16 Battery Energy Control Module (HP9) • K17 Electronic Brake Control Module (HP9) • K114B Hybrid/EV Powertrain Control Module 2 (HP9) • K177 Brake Booster Control Module (HP9) • P16 Instrument Cluster
41	SPARE	F41UA	-	• -
42	FPPM	F42UA	10A	• K111 Fuel Pump Driver Control Module
43	IP BODY IGN	F43UA	15A	• K33 HVAC Control Module • P14 Passenger Air Bag Disabled Indicator • P43 Collision Alert Indicators (UEU-UV6) • X85 Steering Wheel Air Bag Coil (UVD)

No.	Device Label Name	Device Assigned Name	Rating	Description
44	AERO SHUTTER	F44UA	10A	M96 Active Grille Air Shutter Actuator
45	WASH	F45UA	20A	- KR11 Windshield Washer Pump Relay - KR174 Night Vision Camera Washer Pump Relay (UV3)
46	F RDR	F46UA	10A	- B233LF Radar Sensor Module - Short Range Left Front (UGN) - B233RF Radar Sensor Module - Short Range Right Front (UGN)
47	L CORNER LED	F47UA	10A	E4A Cornering Lamp - Left (T87)
54	SPARE	F54UA	-	-
55	SPARE	F55UA	-	-
56	AIR PUMP	F56UA	50A	KR25 Secondary Air Injection Pump Relay
57	SPARE	F57UA	-	-
58	IEC	F58UA	60A	-
59	SPARE	F59UA	-	-
60	ABS PUMP	F60UA	60A	K17 Electronic Brake Control Module
61	WPR FRT	F61UA	30A	- KR12B Windshield Wiper Relay - KR12C Windshield Wiper Speed Control Relay
62	HDLP LVLG	F62UA	10A	K26 Headlamp Control Module (TR7)

No.	Device Label Name	Device Assigned Name	Rating	Description
63	BOOSTER MDL	F63UA	10A	K177 Brake Booster Control Module (HP9)
64	SPARE	F64UA	-	-
65	SPARE	F65UA	-	-
66	TCCM	F66UA	40A	K69 Transfer Case Control Module (F46)
67	BOOSTER	F67UA	60A	K177 Brake Booster Control Module (HP9)
68	RSE DISP	F68UA	10A	- P22E Video Display - Driver Seatback (UWG) - P22F Video Display - Passenger Seatback (UWG)
69	ESS CL PUMP	F69UA	15A	G37 Hybrid/EV Battery Pack Coolant Pump (HP9)
70	SPARE	F70UA	-	-
71	ABS VLV	F71UA	30A	K17 Electronic Brake Control Module
72	SPARE	F72UA	-	-
73	SPARE	F73UA	-	-

Relays

14	A/C CNTRL RLY	KR29 A/C Compressor Clutch Relay	-	Q2 A/C Compressor Clutch
15	STRTR2 RLY	KR27 Starter Relay	-	M64 Starter Motor
16	STRTR1 RLY	KR27C Starter Pinion Solenoid Actuator Relay	-	M64 Starter Motor

No.	Device Label Name	Device Assigned Name	Rating	Description
17	RUN/CRNK RLY	KR73 Ignition Main Relay	-	• F5UA • F27UA • F28UA • F29UA • F40UA • F42UA • F43UA • Spare Fuses
19	HDLP LO RLY	KR49 Headlamp Low Beam Relay	-	• F11UA • F12UA
20	HDLP HI RLY	KR48 Headlamp High Beam Relay	-	• F13UA
25	COOL PUMP RLY	KR33 Auxiliary Heater Coolant Pump Relay	-	• G36 Auxiliary Heater Coolant Pump (HP9)
48	AIR SOL RLY	KR25 Secondary Air Injection Pump Relay	-	• -
49	AIR PUMP RLY	KR26 Secondary Air Injection Solenoid Valve Relay	-	• F33UA
50	ECM RLY	KR75 Engine Controls Ignition Relay	-	• F26UA • F35UA • F36UA • F37UA • F38UA • F39UA • F44UA • KR25 Secondary Air Injection Pump Relay • KR256 Secondary Air Injection Solenoid Valve Relay
51	WPR SPD RLY	KR12C Windshield Wiper Speed Control Relay	-	• M75 Windshield Wiper Motor
52	WPR CNTRL RLY	KR12B Windshield Wiper Relay	-	• KR12C Windshield Wiper Speed Control Relay
53	HDLP CNTRL RLY	KR50 Headlamp Relay	-	• F31UA

No.	Device Label Name	Device Assigned Name	Rating	Description
NOTE: Relays listed below are non-serviceable Printed Circuit Board (PCB) relays and are internal to the block.				
-	-	KR3 Horn Relay	-	• F9UA
-	-	KR11 Windshield Washer Pump Relay	-	• G24 Windshield Washer Pump
-	-	KR100L Cornering Lamp Relay - Left	-	• F47UA
-	-	KR100R Cornering Lamp Relay - Right	-	• F18UA
-	-	KR174 Night Vision Camera Washer Pump Relay	-	• G52 Night Vision Camera Washer Pump (UV3)

X50A FUSE BLOCK - UNDERHOOD BOTTOM VIEW

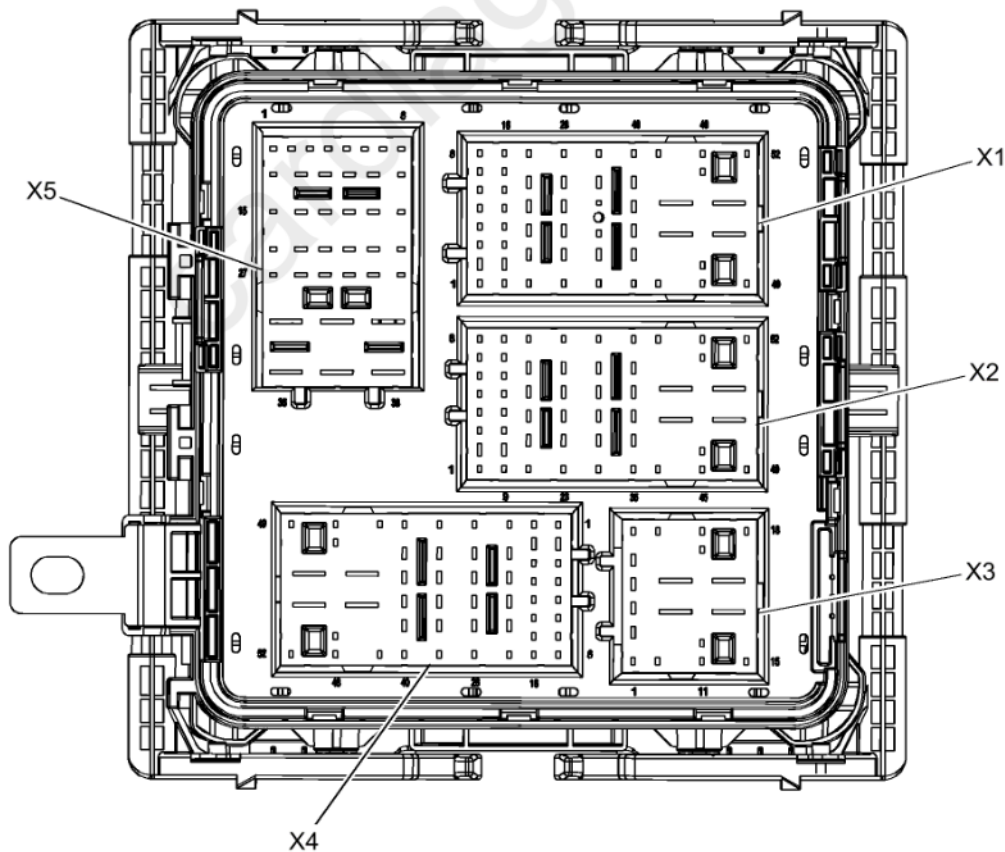
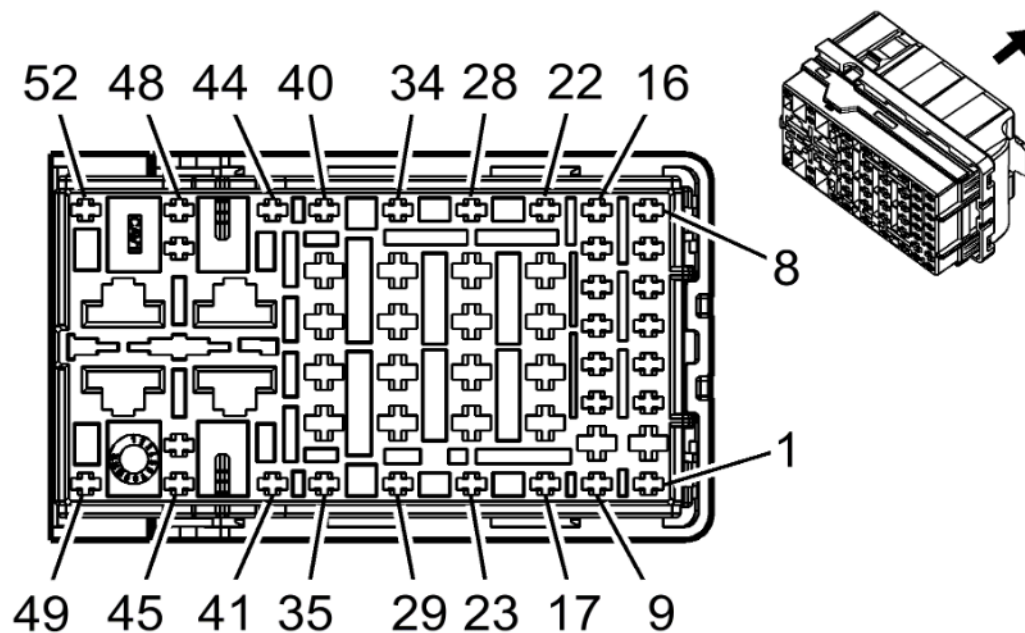


Fig. 4: X50A Fuse Block - Underhood Bottom View
Courtesy of GENERAL MOTORS COMPANY



Connector Part Information

- Harness Type: Body
- OEM Connector: 15533758
- Service Connector: 19300569
- Description: 52-Way F 1.5, 2.8, 8.0 DQS Series (BK)

Terminal Part Information

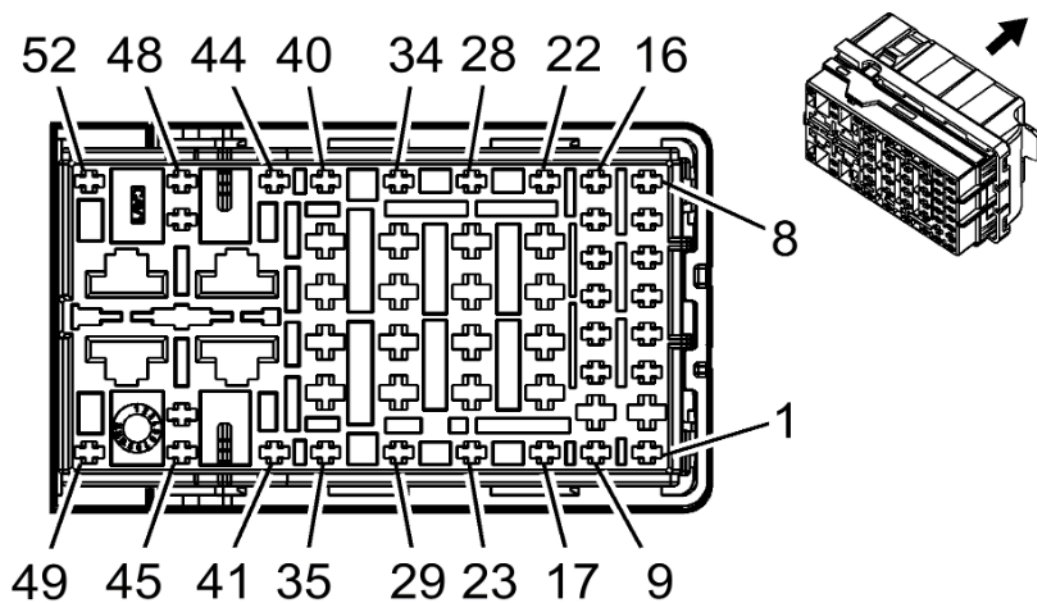
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575355	J-35616-44 (YE)	J-38125-558	12110127	Delphi 19	F	G
II	13575773	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
III	13575774	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
IV	13575780	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
V	13575781	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
VI	13578869	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	0.5	BU/BN	6561	Right Cornering Lamp Relay Control	II	T87
2	-	-	-	Not Occupied	-	-
3	0.35	BN/GY	2268	Windshield Washer Relay Control	II	-
4 - 5	-	-	-	Not Occupied	-	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
6	0.35	YE/BU	2282	Headlamp Washer Relay Control	II	UV3
7 - 8	-	-	-	Not Occupied	-	-
9	0.35	BN/WH	28	Horn Relay Control	II	-
10 - 15	-	-	-	Not Occupied	-	-
16	0.35	BN/VT	1969	Headlamp High Beam Relay Control	II	-
17	0.5	VT/GY	539	Run/Crank Ignition 1 Voltage	II	-
18 - 19	-	-	-	Not Occupied	-	-
20	1	VT	1197	Headlamp Washer Pump Control	IV	UV3
21 - 23	-	-	-	Not Occupied	-	-
24	2	BK	750	Ground	V	-
25 - 27	-	-	-	Not Occupied	-	-
28	0.5	GY/VT	6560	Left Cornering Lamp Relay Control	II	T87
29 - 35	-	-	-	Not Occupied	-	-
36	0.35	GY	91	Windshield Wiper Motor Relay Coil Control	IV	-
37 - 38	-	-	-	Not Occupied	-	-
39	0.35	WH/GY	352	Headlamp Relay Coil Control	IV	-
40 - 43	-	-	-	Not Occupied	-	-
44	1.5	RD/GN	3840	Battery Positive Voltage	VI	-
45	0.5	RD/YE	740	Battery Positive Voltage	II	-
46 - 48	-	-	-	Not Occupied	-	-
49	0.75	RD/VT	5640	Battery Positive Voltage	III	-
50	-	-	-	Not Occupied	-	-
51	2.5	RD/YE	3740	Battery Positive Voltage	I	-
52	-	-	-	Not Occupied	-	-

X50A FUSE BLOCK - UNDERHOOD X2





Connector Part Information

- Harness Type: Body
- OEM Connector: 15533719
- Service Connector: 19300570
- Description: 52-Way F 1.5, 2.8, 8.0 DSQ Series (BN)

Terminal Part Information

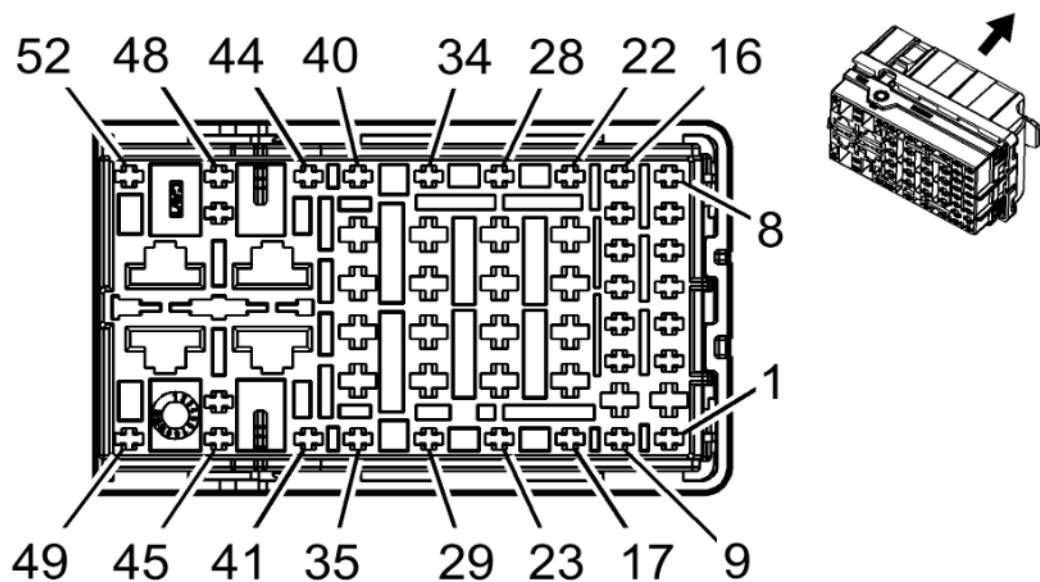
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575491	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
II	13575718	J-35616-44 (YE)	J-38125-558	12110127	Delphi 19	F	G
III	13575718	J-35616-44 (YE)	J-38125-558	Not Available	Not Available	Not Available	Not Available
IV	13575773	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
V	13575774	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
VI	13575780	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
VII	13575781	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 3	-	-	-	Not Occupied	-	-
4	0.5	VT/WH	239	Run/Crank Ignition 1 Voltage	IV	-
5	-	-	-	Not Occupied	-	-
6	0.75	BU/VT	807	OFF /Accessory Ignition Voltage	V	-
7	0.75	VT/WH	1539	Run/Crank Ignition 1 Voltage	V	KA6

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
8	0.75	VT/WH	1139	Run/Crank Ignition 1 Voltage	V	KA1
9 - 18	-	-	-	Not Occupied	-	-
19	0.35	VT/BK	1639	Run/Crank Ignition 1 Voltage	I	-
20 - 21	-	-	-	Not Occupied	-	-
22	0.5	VT/WH	2439	Run/Crank Ignition 1 Voltage	IV	-
23 - 25	-	-	-	Not Occupied	-	-
26	0.35	WH/VT	860	Front Windshield Wiper Switch High Signal	VI	-
27	2	YE/BN	95	Windshield Wiper Motor Low Speed Control	VII	-
28	-	-	-	Not Occupied	-	-
29	0.35	GN/VT	5199	Run/Crank Relay Coil Control	IV	-
30 - 37	-	-	-	Not Occupied	-	-
38	1	BK	1350	Ground	VI	-
39	2	WH	92	Windshield Wiper Motor High Speed Control	VII	-
40 - 42	-	-	-	Not Occupied	-	-
43	4	RD/YE	442	Battery Positive Voltage	II	-
44 - 49	-	-	-	Not Occupied	-	-
50	6	RD/WH	640	Battery Positive Voltage	III	F46
51	4	RD/VT	542	Battery Positive Voltage	II	-
52	0.5	RD/BN	4940	Battery Positive Voltage	IV	UWG

X50A FUSE BLOCK - UNDERHOOD X4 (LGW)





Connector Part Information

- Harness Type: Engine
- OEM Connector: 15533456
- Service Connector: 19300568
- Description: 52-Way F 1.5, 2.8, 8.0 Series (GY)

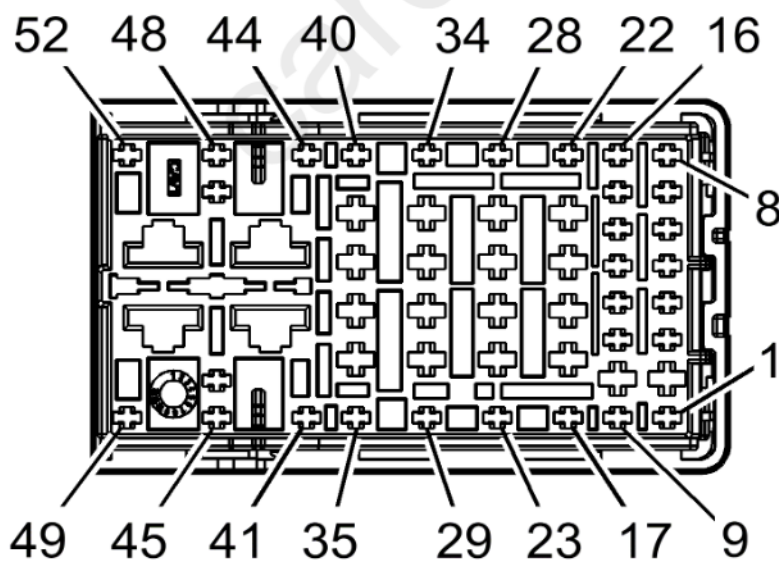
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13327115	J-35616-2A (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
II	13575355	J-35616-44 (YE)	J-38125-558	12110127	Delphi 19	F	G
III	13575774	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
IV	13575780	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
V	13575781	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	VT/BU	5292	Powertrain Main Relay Fused Supply 3	III	-
2 - 8	-	-	-	Not Occupied	-	-
9	0.5	VT/BU	5294	Powertrain Main Relay Fused Supply 5	I	-
10	2	VT/BU	5290	Powertrain Main Relay Fused Supply 1	V	-
11 - 16	-	-	-	Not Occupied	-	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
17	1	VT/BU	5291	Powertrain Main Relay Fused Supply 2	III	-
18	2	VT/BU	5290	Powertrain Main Relay Fused Supply 1	V	-
19 - 22	-	-	-	Not Occupied	-	-
23	0.75	VT/BU	5293	Powertrain Main Relay Fused Supply 4	III	-
24	0.75	VT/BU	5294	Powertrain Main Relay Fused Supply 5	IV	-
25	0.75	YE/BU	5126	After Boil Heater Pump Control	IV	-
26 - 38	-	-	-	Not Occupied	-	-
39	0.5	WH/GY	459	A/C Compressor Clutch Relay Control	IV	-
40 - 41	-	-	-	Not Occupied	-	-
42	2.5	YE	6	Starter Solenoid Crank Ignition Voltage	II	-
43 - 49	-	-	-	Not Occupied	-	-
50	2.5	YE/GN	4358	Starter Pinion Solenoid Voltage	II	-
51 - 52	-	-	-	Not Occupied	-	-

X50A FUSE BLOCK - UNDERHOOD X4 (LGX)



Connector Part Information

- Harness Type: Engine
- OEM Connector: 15533456
- Service Connector: 19300568

- Description: 52-Way F 1.5, 2.8, 8.0 Series (GY)

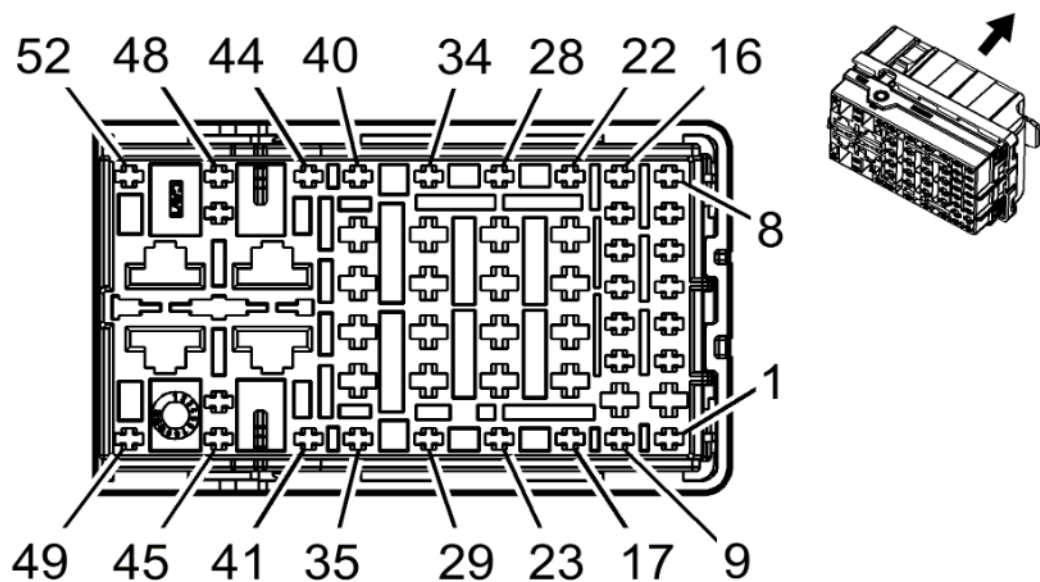
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575355	J-35616-44 (YE)	J-38125-558	12110127	Delphi 19	F	G
II	13575774	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
III	13575780	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
IV	13575781	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	VT/BU	5292	Powertrain Main Relay Fused Supply 3	II	-
2 - 16	-	-	-	Not Occupied	-	-
17	1	VT/BU	5291	Powertrain Main Relay Fused Supply 2	II	-
18	2	VT/BU	5290	Powertrain Main Relay Fused Supply 1	IV	-
19 - 22	-	-	-	Not Occupied	-	-
23	0.75	VT/BU	5293	Powertrain Main Relay Fused Supply 4	II	-
24	0.75	VT/BU	5294	Powertrain Main Relay Fused Supply 5	III	-
25	0.75	YE/BU	5126	After Boil Heater Pump Control	III	-
26 - 38	-	-	-	Not Occupied	-	-
39	0.5	WH/GY	459	A/C Compressor Clutch Relay Control	III	-
40 - 41	-	-	-	Not Occupied	-	-
42	2.5	YE	6	Starter Solenoid Crank Ignition Voltage	I	-
43 - 49	-	-	-	Not Occupied	-	-
50	2.5	YE/GN	4358	Starter Pinion Solenoid Voltage	I	-
51 - 52	-	-	-	Not Occupied	-	-

X50A FUSE BLOCK - UNDERHOOD X4 (LTG+HP9)





Connector Part Information

- Harness Type: Engine
- OEM Connector: 15533456
- Service Connector: 19300568
- Description: 52-Way F 1.5, 2.8, 8.0 Series (GY)

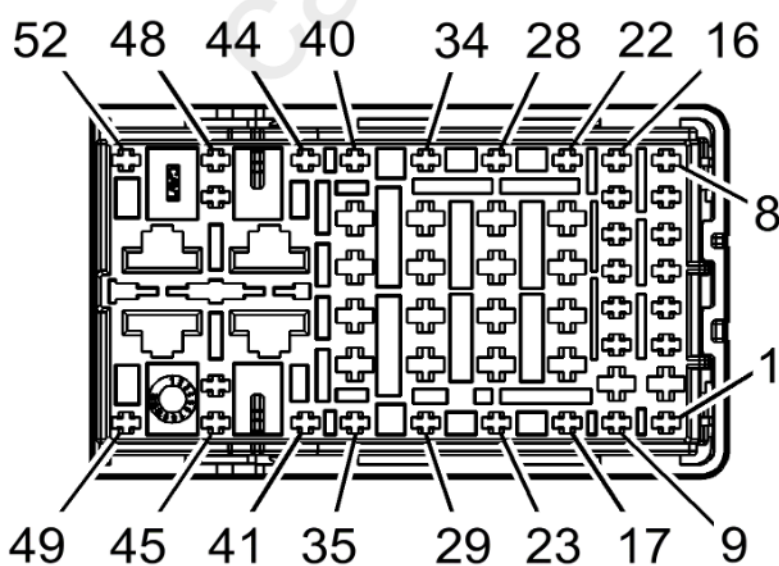
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575773	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
II	13575774	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
III	13575780	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
IV	13575781	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
V	13579967	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	-	-	-	Not Occupied	-	-
2	0.75	VT/BK	1639	Run/Crank Ignition 1 Voltage	III	-
3	-	-	-	Not Occupied	-	-
4	0.5	YE	5991	Powertrain Relay Coil Control	I	-
5 - 16	-	-	-	Not Occupied	-	-
17	1	VT/BU	5291	Powertrain Main Relay Fused Supply 2	II	-
18	2	VT/BU	5290	Powertrain Main Relay Fused Supply 1	IV	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
19 - 22	-	-	-	Not Occupied	-	-
23	0.75	VT/BU	5293	Powertrain Main Relay Fused Supply 4	II	-
24	0.75	VT/BU	5294	Powertrain Main Relay Fused Supply 5	III	-
25	-	-	-	Not Occupied	-	-
26	0.5	RD/VT	5340	Battery Positive Voltage	III	-
27	-	-	-	Not Occupied	-	-
28	0.75	RD/GY	2840	Battery Positive Voltage	II	-
29	0.5	VT/BU	5290	Powertrain Main Relay Fused Supply 1	I	-
30	0.5	RD/WH	3440	Battery Positive Voltage	III	-
31 - 38	-	-	-	Not Occupied	-	-
39	0.5	WH/GY	459	A/C Compressor Clutch Relay Control	III	-
40 - 45	-	-	-	Not Occupied	-	-
46	0.5	VT/BK	2139	Run/Crank Ignition 1 Voltage	V	-
47	0.5	RD/WH	2740	Battery Positive Voltage	I	-
48	0.75	RD/BU	3940	Battery Positive Voltage	II	-
49 - 52	-	-	-	Not Occupied	-	-

X50A FUSE BLOCK - UNDERHOOD X4 (LTG+KL9)



Connector Part Information

- Harness Type: Engine

- OEM Connector: 15533456
- Service Connector: 19300568
- Description: 52-Way F 1.5, 2.8, 8.0 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	13575355	J-35616-44 (YE)	J-38125-558	12110127	Delphi 19	F	G
II	13575773	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
III	13575774	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
IV	13575780	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
V	13575781	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 3	-	-	-	Not Occupied	-	-
4	0.5	YE	5991	Powertrain Relay Coil Control	II	-
5 - 11	-	-	-	Not Occupied	-	-
12	0.35	GY	5127	After Boil Heater Relay Control	II	-
13 - 16	-	-	-	Not Occupied	-	-
17	1	VT/BU	5291	Powertrain Main Relay Fused Supply 2	III	-
18	2	VT/BU	5290	Powertrain Main Relay Fused Supply 1	V	-
19 - 22	-	-	-	Not Occupied	-	-
23	0.75	VT/BU	5293	Powertrain Main Relay Fused Supply 4	III	-
24	0.75	VT/BU	5294	Powertrain Main Relay Fused Supply 5	IV	-
25	0.75	YE/BU	5126	After Boil Heater Pump Control	IV	-
26 - 28	-	-	-	Not Occupied	-	-
29	0.5	VT/BU	5290	Powertrain Main Relay Fused Supply 1	II	-
30 - 31	-	-	-	Not Occupied	-	-
32	0.75	BK/WH	451	Signal Ground	IV	-
33 - 38	-	-	-	Not Occupied	-	-
39	0.5	WH/GY	459	A/C Compressor Clutch Relay Control	IV	-
40	0.5	BN/GN	59	A/C Compressor Clutch Control	II	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
41	0.35	YE/VT	4325	Starter Pinion Solenoid Relay Control	II	-
42	2.5	YE	6	Starter Solenoid Crank Ignition Voltage	I	-
43 - 44	-	-	-	Not Occupied	-	-
45	0.5	VT/GY	6386	Starter Enable Relay (PPEI 3) Control	II	-
46	0.5	VT/BK	2139	Run/Crank Ignition 1 Voltage	II	-
47 - 49	-	-	-	Not Occupied	-	-
50	2.5	YE/GN	4358	Starter Pinion Solenoid Voltage	I	-
51 - 52	-	-	-	Not Occupied	-	-

X50A FUSE BLOCK - UNDERHOOD X5

Connector Part Information

- Harness Type: Forward Lamp
- OEM Connector: 15533803
- Service Connector: 19300567
- Description: 38-Way F 1.5, 2.8, 8.0 Series

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13327115	J-35616-2A (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
II	13575774	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
III	13575780	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	0.5	WH	711	Left Headlamp High Beam Control	I	-
3 - 6	-	-	-	Not Occupied	-	-
7	0.5	YE/GY	57	Left Cornering Lamp Control	I	T87
8	0.75	VT/GY	139	Run/Crank Ignition 1 Voltage	II	-
9	-	-	-	Not Occupied	-	-
10	0.5	WH	311	Right Headlamp High Beam Control	III	-
11 - 13	-	-	-	Not Occupied	-	-
14	0.75	VT/GY	139	Run/Crank Ignition 1 Voltage	II	-
15 - 17	-	-	-	Not Occupied	-	-
18	0.5	RD/WH	7240	Battery Positive Voltage	III	UGN
19 - 23	-	-	-	Not Occupied	-	-
24	1	GY/VT	228	Windshield Washer Pump Control	III	-
25 - 27	-	-	-	Not Occupied	-	-
28	1 0.75	BN/GY BN/GY	29 29	Horn Control Horn Control	III III	LGX LTG/LGW
29	0.5	YE/WH	58	Right Cornering Lamp Control	III	T87
30	-	-	-	Not Occupied	-	-
31	0.5	VT/BU	5705	Powertrain Main Relay Fused Control 6	III	-
32 - 38	-	-	-	Not Occupied	-	-

X50B FUSE BLOCK - UNDERHOOD AUXILIARY SIDE VIEW

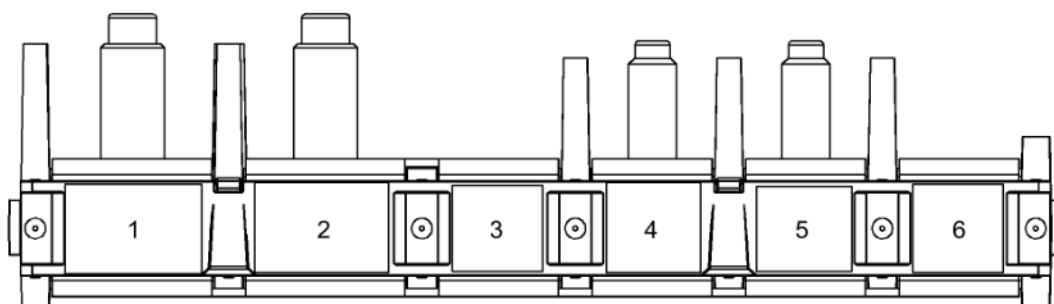


Fig. 5: X50B Fuse Block - Underhood Auxiliary Side View
 Courtesy of GENERAL MOTORS COMPANY

X50B FUSE BLOCK - UNDERHOOD AUXILIARY FUSE IDENTIFICATION

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
1	GEN	F3UB	200A (HP9)/250A (KL9)	- K1 14V Power Module (HP9) - G13 Generator (KL9)
2	BATT CABLE	-	-	X50B Fuse Block - Underhood Auxiliary
3	JUMP POST	-	-	-
4	EPS	F5UB	100A	K43 Power Steering Control Module
5	COOL_FAN	F2UB	80A	G10 Cooling Fan Motor
6	NOT USED	F1UB	100A	-

X50B FUSE BLOCK - UNDERHOOD AUXILIARY TOP VIEW

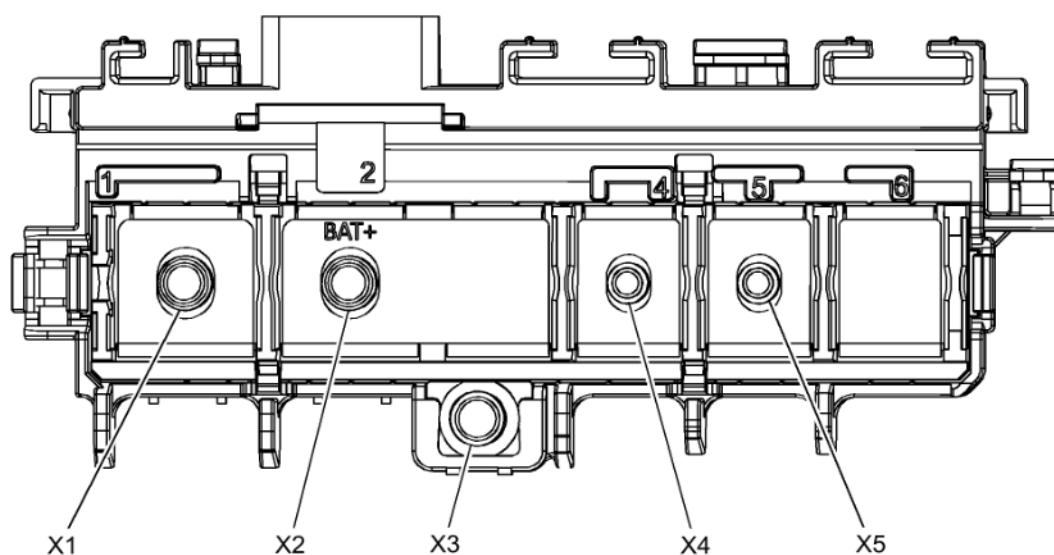
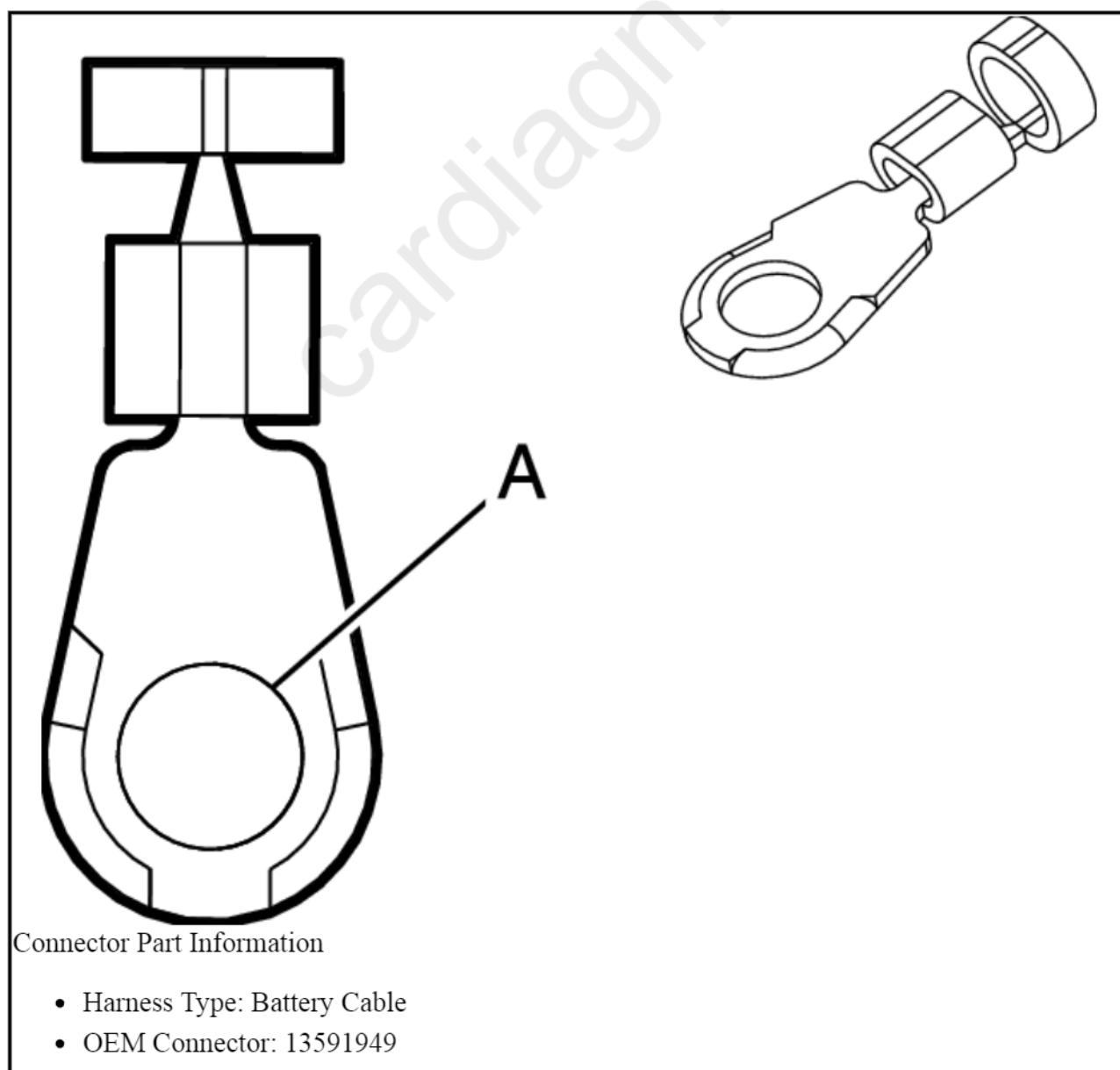


Fig. 6: X50B Fuse Block - Underhood Auxiliary Top View
 Courtesy of GENERAL MOTORS COMPANY

X50B FUSE BLOCK - UNDERHOOD AUXILIARY X1



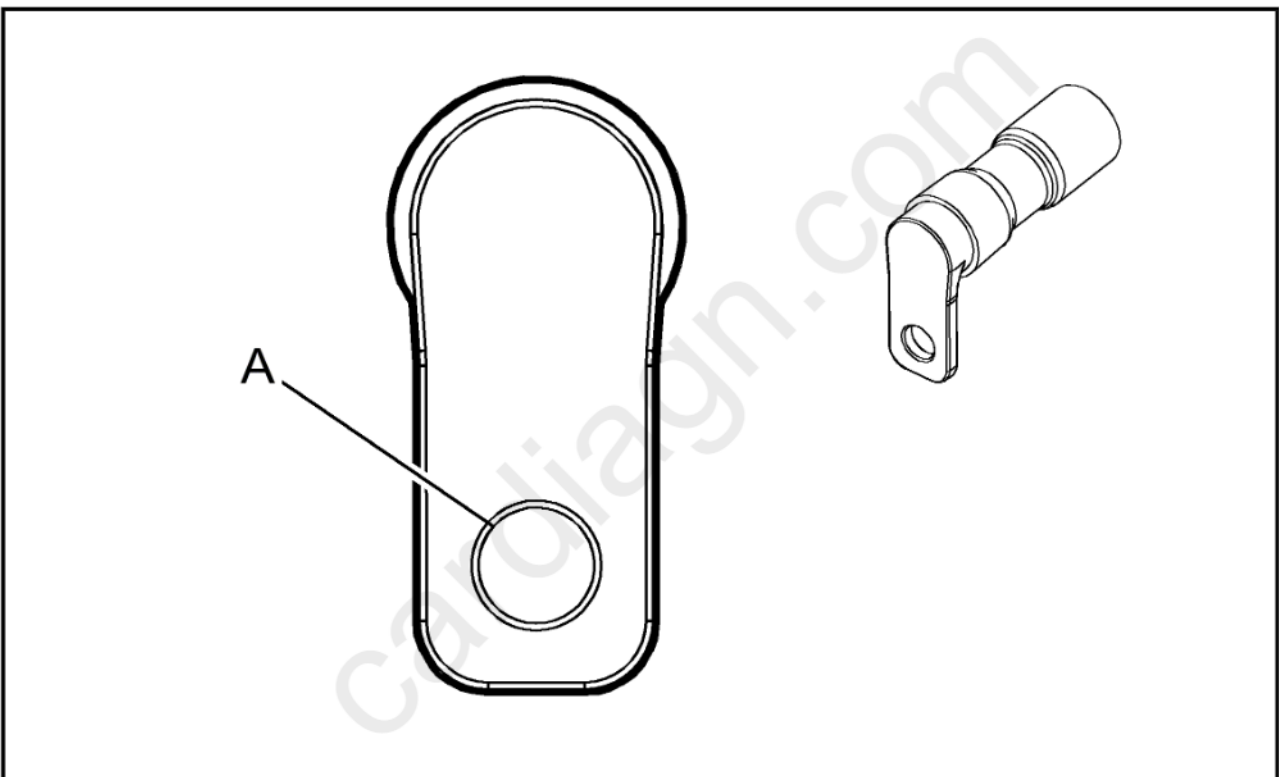
- | |
|---|
| <ul style="list-style-type: none"> • Service Connector: Service by Cable Assembly - See Part Catalog • Description: 1-Way Ring Terminal |
|---|

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	25	RD/YE	2	Battery Positive Voltage	I	HP9
	35	RD	1	Unfused Battery Positive Voltage	II	KL9

X50B FUSE BLOCK - UNDERHOOD AUXILIARY X3 (BATTERY POSITIVE)



Connector Part Information

- Harness Type: Battery Positive Cable
- OEM Connector: 23120550
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way Ring Terminal

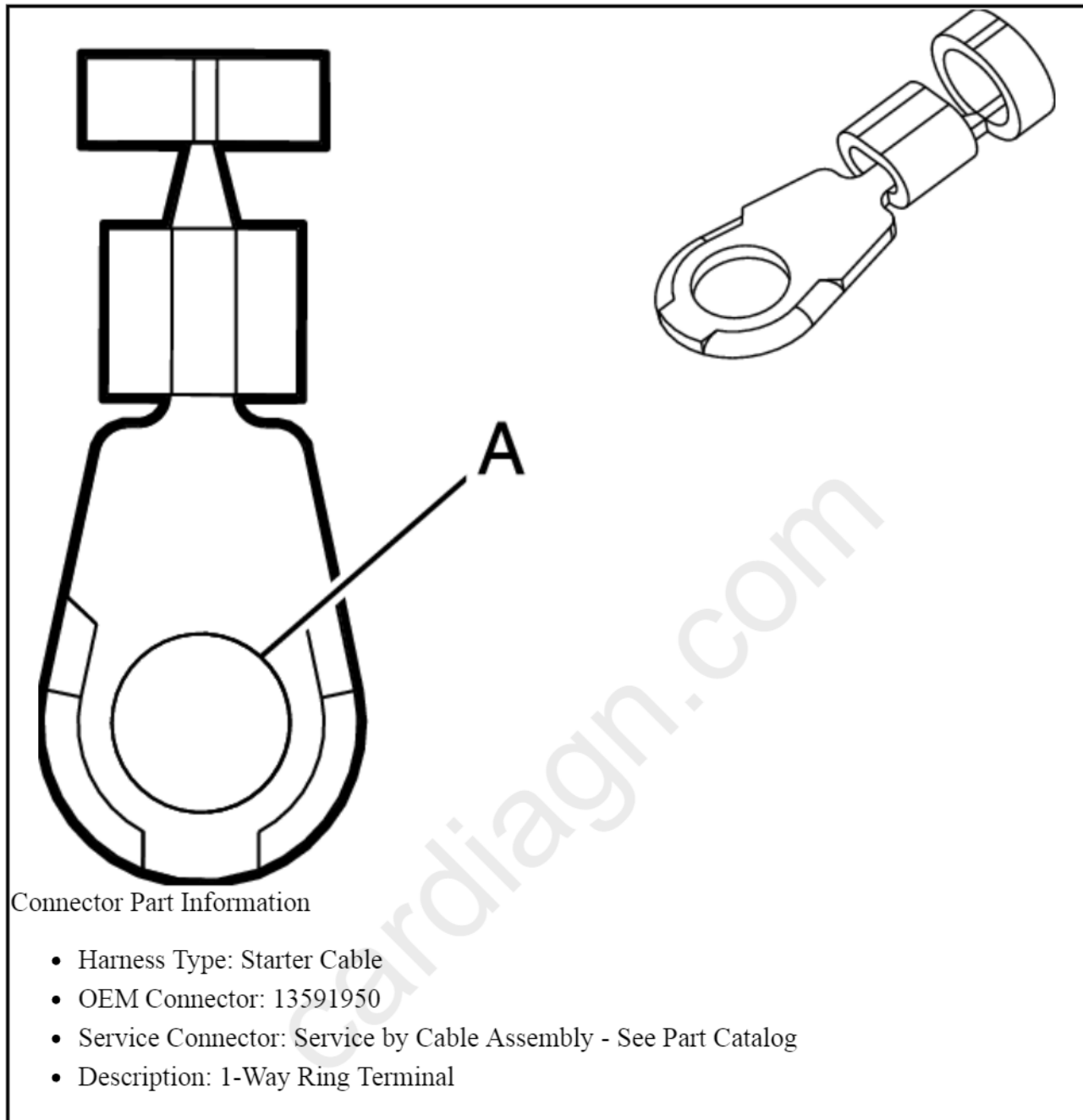
Terminal Part Information

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	95	RD	1	Unfused Battery Positive Voltage	I	-

X50B FUSE BLOCK - UNDERHOOD AUXILIARY X3 (STARTER)

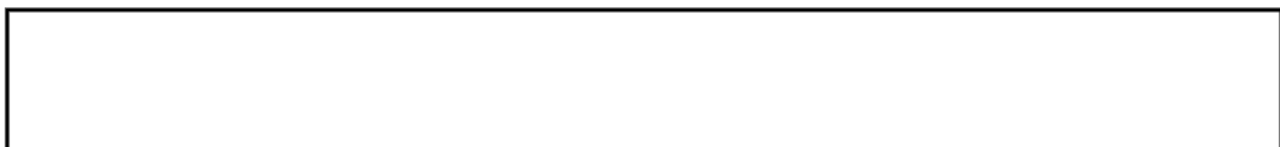


Terminal Part Information

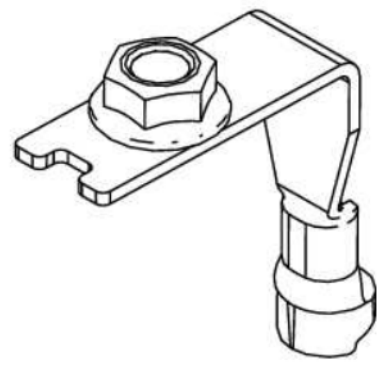
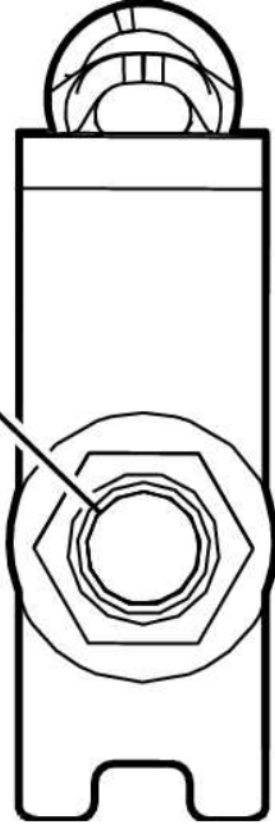
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	35	RD	1	Unfused Battery Positive Voltage	I	-

X50B FUSE BLOCK - UNDERHOOD AUXILIARY X4 (LGW/LTG)



A



Connector Part Information

- Harness Type: Engine
- OEM Connector: 33265821
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way Ring Terminal

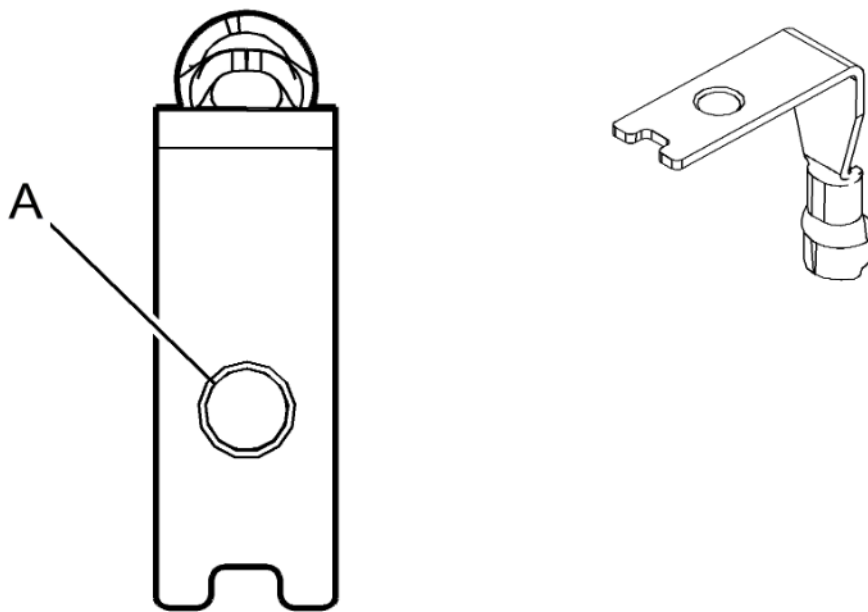
Terminal Part Information

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/YE	1142	Battery Positive Voltage	I	-

X50B FUSE BLOCK - UNDERHOOD AUXILIARY X4 (LGX)





Connector Part Information

- Harness Type: Engine
- OEM Connector: 33301225
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way Ring Terminal

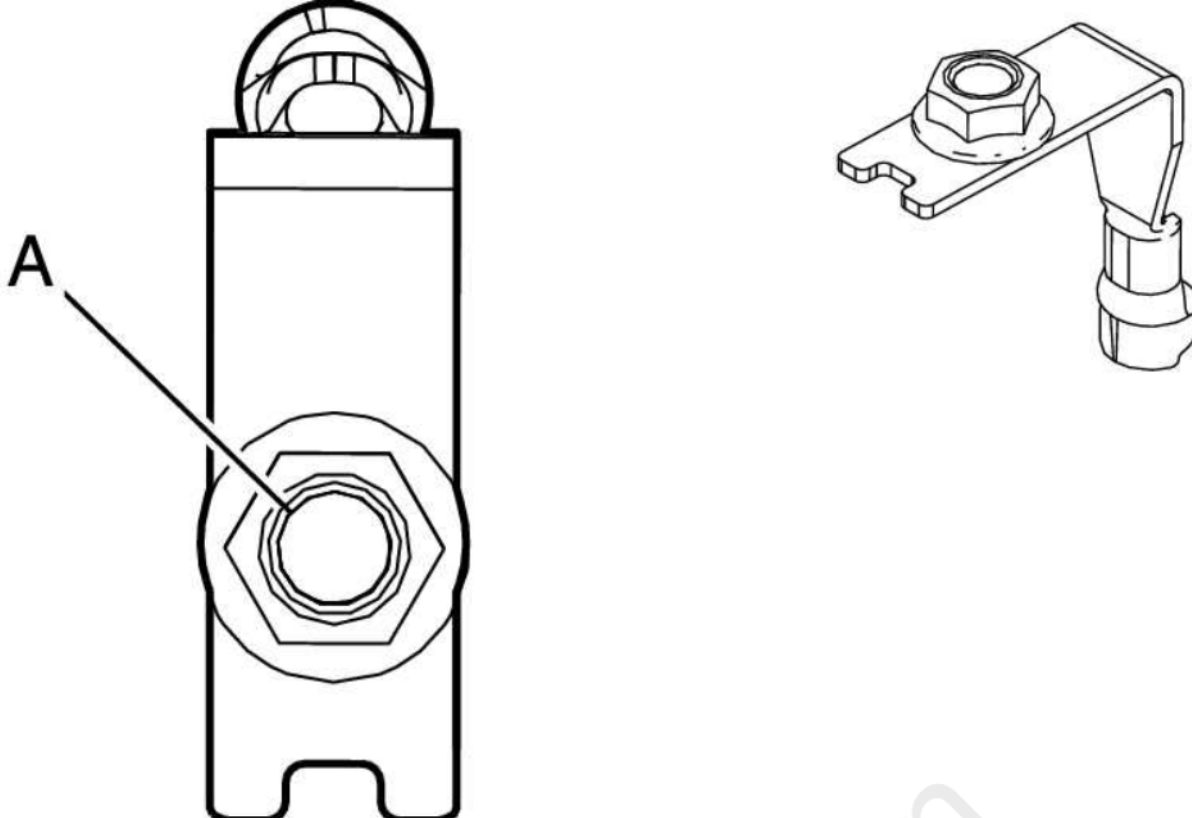
Terminal Part Information

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/YE	1142	Battery Positive Voltage	I	-

X50B FUSE BLOCK - UNDERHOOD AUXILIARY X5 (LGW/LTG)





Connector Part Information

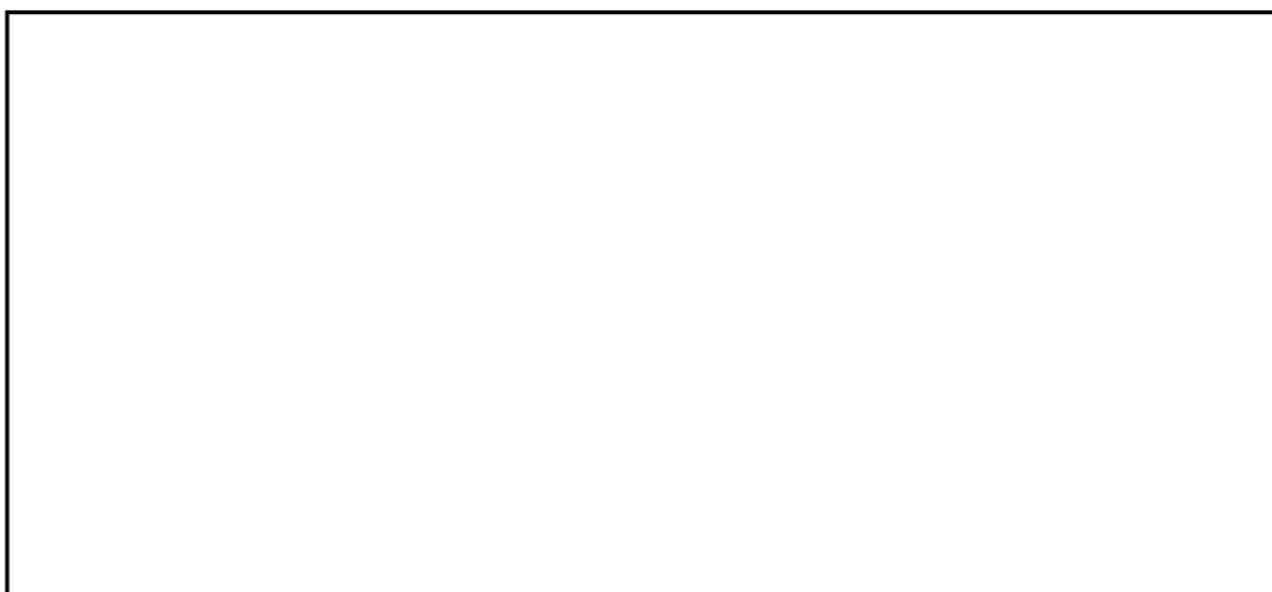
- Harness Type: Engine
- OEM Connector: 33265821
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way Ring Terminal

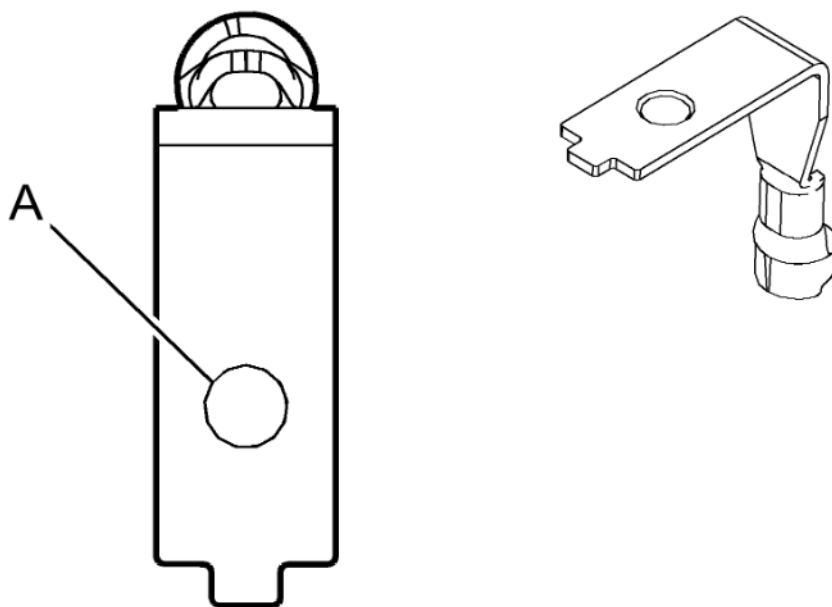
Terminal Part Information

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/YE	1142	Battery Positive Voltage	I	-

X50B FUSE BLOCK - UNDERHOOD AUXILIARY X5 (LGX)





Connector Part Information

- Harness Type: Engine
- OEM Connector: 33301224
- 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	1742	Battery Positive Voltage	I	-

X55AG FUSE HOLDER - BATTERY SENSOR

Connector Part Information

- Harness Type: Body
- OEM Connector: 13788151
- 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	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	1	OG	2340	Battery Positive Voltage	I	-
B	1	OG	2340	Battery Positive Voltage	I	-

X51A FUSE BLOCK - INSTRUMENT PANEL LABEL

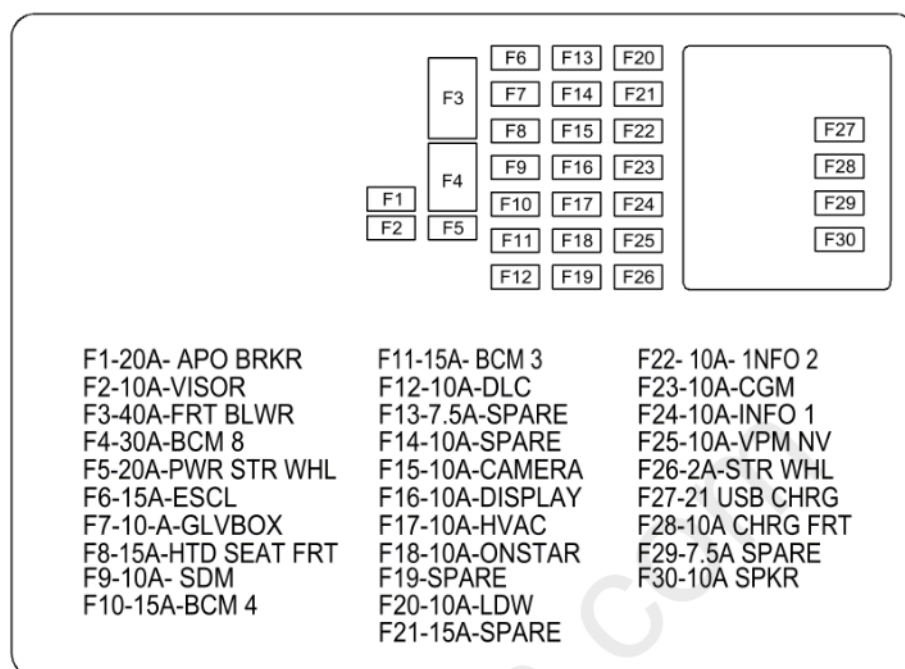


Fig. 7: X51A Fuse Block - Instrument Panel Label

Courtesy of GENERAL MOTORS COMPANY

X51A FUSE BLOCK - INSTRUMENT PANEL TOP VIEW (1 OF 2)

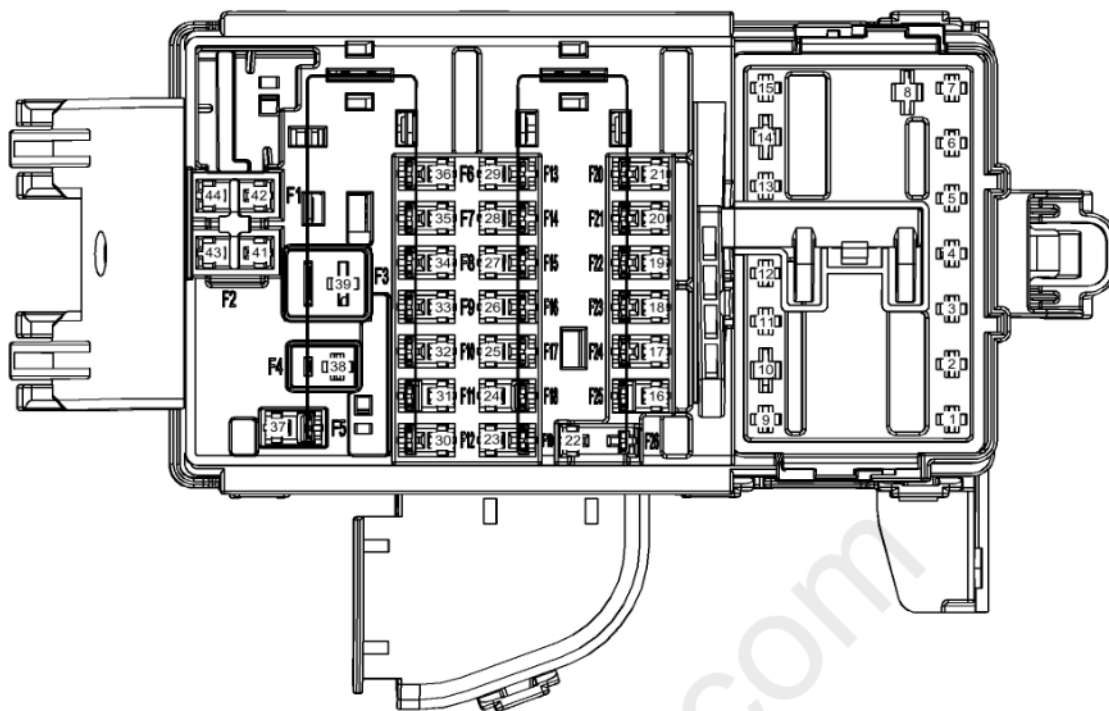


Fig. 8: X51A Fuse Block - Instrument Panel Top View (1 of 2)

Courtesy of GENERAL MOTORS COMPANY

**X51A FUSE BLOCK - INSTRUMENT PANEL UNDERHOOD FUSE IDENTIFICATION
LEGEND**

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
1	APO BRKR	F1DA Circuit Breaker	20A	X80F Accessory Power Receptacle - Front (- DUJ/SAO), E32F Cigarette Lighter Receptacle - Front (DUJ/SAO)

No.	Device Label Name	Device Assigned Name	Rating	Description
2	VISOR	F2DA Fuse	10A	- E31L Sunshade Mirror Lamp - Left - E31R Sunshade Mirror Lamp - Right - E37LF Dome/Reading Lamps - Left Front - E37RF Dome/Reading Lamps - Right Front - E37LR Dome/Reading Lamps - Left Rear, - E37RR Dome/Reading Lamps - Right Rear - S48B Multifunction Switch - Overhead Console
3	FRT BLWR	F3DA Fuse	40A	M8 Blower Motor
4	BCM8	F4DA Fuse	30A	K9 Body Control Module
5	PWR STR WHL	F5DA Fuse	20A	K99 Steering Column Position Control Module
6	ESCL	F6DA Fuse	15A	K60 Steering Column Lock Module (ULS)
7	GLVBOX	F7DA Circuit Breaker	10A	KR147 Instrument Panel Compartment Door Unlatch Actuator Relay
8	HTD SEAT FRT	F8DA Fuse	15A	K29F Seat Heating Control Module - Front (KA1)
9	SDM	F9DA Fuse	10A	- K36 Inflatable Restraint Sensing and Diagnostic Module - K85 Passenger Presence Module
10	BCM4	F10DA Fuse	15A	K9 Body Control Module
11	BCM3	F11DA Fuse	15A	K9 Body Control Module
12	DLC	F12DA Fuse	10A	- X84 Data Link Connector - X84B Auxiliary Data Link Connector (HP9)

No.	Device Label Name	Device Assigned Name	Rating	Description
13	SPARE	F13DA Fuse	7.5A	• Not Used
14	SPARE	F14DA Fuse	10A	• Not Used
15	CAMERA	F15DA Fuse	10A	• B174W Frontview Camera - Windshield (UEU/UHX)
16	DISPLY	F16DA Fuse	10A	• A26 HVAC Controls • P16 Instrument Cluster • P17 Info Display Module • P29 Head-Up Display (UV6) • S48C Multifunction Switch 1 - Instrument Panel • S48D Multifunction Switch 2 - Instrument Panel
17	HVAC	F17DA Fuse	10A	• K33 HVAC Control Module
18	ONSTAR	F18DA Fuse	10A	• K31 Navigation Control Module (CW1) • K73 Telematics Communication Interface Control Module (UE1)
19	SPARE	F19DA Fuse	-	• Not Used
20	INFO2	F20DA Fuse	10A	• Not Used
21	SPARE	F21DA Fuse	15A	• Not Used
22	LDW	F22DA Fuse	10A	• A33 Media Disc Player (WCN/UWG) • S140 Media Disc Eject Switch (UWG)
23	CGM	F23DA Fuse	10A	• K56 Serial Data Gateway Module
24	INFO1	F24DA Fuse	10A	• K74 Human Machine Interface Control Module • S136 Infotainment Control Touchpad • X83 Auxiliary Audio Input

No.	Device Label Name	Device Assigned Name	Rating	Description
25	VPM NV	F25DA Fuse	10A	- K157 Video Processing Control Module (UVH) - K172 Night Vision Camera Control Module (UV3) - X20 Memory Card Receptacle (XVR)
26	STR WHL	F26DA Fuse	2A	S70D Steering Wheel Controls Switch - Right Upper

X51A FUSE BLOCK - INSTRUMENT PANEL TOP VIEW (2 OF 2)

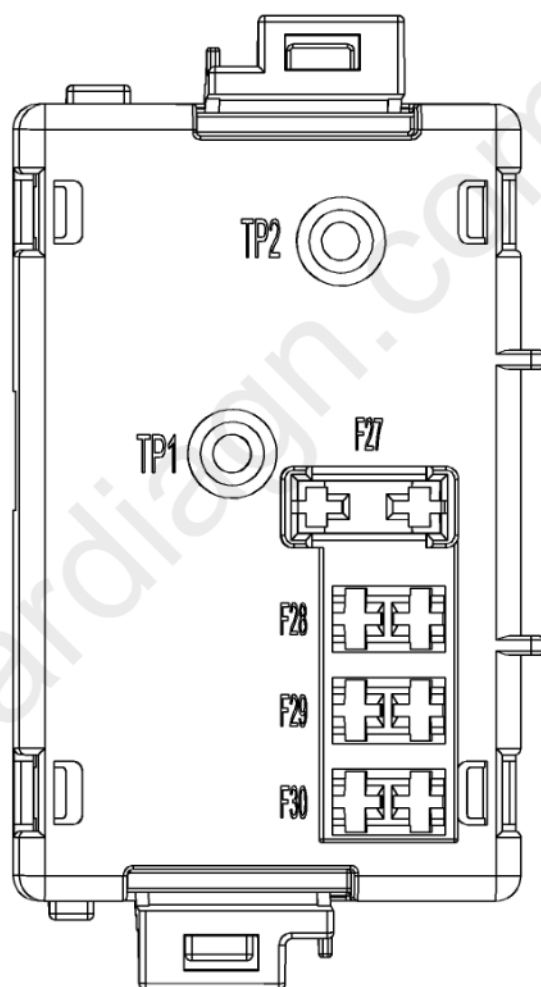


Fig. 9: X51A Fuse Block - Instrument Panel Top View (2 of 2)

Courtesy of GENERAL MOTORS COMPANY

X51A FUSE BLOCK - INSTRUMENT PANEL UNDERHOOD FUSE IDENTIFICATION LEGEND

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				

No.	Device Label Name	Device Assigned Name	Rating	Description
27	USB CHRG	F27DA	2A	• X92B USB Receptacle - Rear Seat
28	CHRG FRT	F28DA	10A	• T22 Mobile Device Wireless Charger Module • X81 Accessory Power Receptacle - 110V AC (KI6) • X81B Accessory Power Receptacle - 220V AC (KI7)
29	SPARE	F29DA	7.5A	• Not Used
30	SPKR	F30DA	10A	• P19B Speaker - Center Instrument Panel (UQH)
NOTE: Items listed below are diagnostic test points				
TP1	-	TP1	-	• TP1
TP2	-	TP2	-	• TP2

2017 ELECTRICAL**Wiring Systems and Power Management - Component Locator - Electrical Center Identification Views - CT6****ELECTRICAL CENTER IDENTIFICATION VIEWS****X51A FUSE BLOCK - INSTRUMENT PANEL BOTTOM VIEW (HP9)****Connector Part Information**

- Harness Type: Instrument Panel
- OEM Connector: 33212192
- Service Connector: Service by Component Assembly - See Part Catalog
- Description: -Way Wire Entry Fuse Block

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575520	J-35616-22 (RD)	J-38125-221	Not Required	Not Required	Not Required	Not Required
II	13575574	J-35616-5 (PU)	J-38125-36	Not Required	Not Required	Not Required	Not Required
III	13575856	J-35616-4A (PU)	J-38125-36	Not Required	Not Required	Not Required	Not Required
IV	13575860	J-35616-4A (PU)	J-38125-36	Not Required	Not Required	Not Required	Not Required
V	13578864	J-35616-4A (PU)	J-38125-36	Not Required	Not Required	Not Required	Not Required
VI	13587365	J-35616-22 (RD)	J-38125-221	Not Required	Not Required	Not Required	Not Required
VII	19300651	J-35616-43 (RD)	J-38125-557	Not Required	Not Required	Not Required	Not Required
VIII	19333309	J-35616-14 (GN)	J-38125-560	Not Required	Not Required	Not Required	Not Required

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
3	0.35	VT	1701	Retained Accessory Power Ignition	III	-
4	0.35	VT	2801	Retained Accessory Power Fuse Ignition	III	-
5	3	VT/YE	4	Accessory Ignition Voltage	V	-
6	0.75	BK	1350	Ground	IV	-
7	0.5	BN/GY	4048	Glove Box Door Release Control	IV	-
8	4	RD/WH	342	Battery Positive Voltage	VIII	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
9	0.35	GY/GN	4083	RAP Relay 2 Coil Control	III	-
10	6	RD/GN	242	Battery Positive Voltage	VIII	-
11	0.35	RD/GY	4840	Battery Positive Voltage	III	-
12	0.35	BN/WH	4046	Glove Box Door Release Relay Control	III	-
13	0.35	VT/BU	3263	Logistic Mode Relay Open Control	III	-
14	4	RD/WH	342	Battery Positive Voltage	VIII	-
15	0.35	GY/VT	3264	Logistic Mode Relay Close Control	III	-
16	0.35	RD/GN	7740	Battery Positive Voltage	III	-
	0.35	RD/GN	7740	Battery Positive Voltage	IV	-
17	0.5	RD/VT	340	Battery Positive Voltage	IV	-
18	0.5	RD/WH	6440	Battery Positive Voltage	IV	-
19	0.35	RD/GN	6940	Battery Positive Voltage	III	-
22	0.35	RD/YE	3040	Battery Positive Voltage	III	-
24	0.35	RD/BU	3940	Battery Positive Voltage	III	-
25	0.35	RD/VT	3340	Battery Positive Voltage	III	-
26	0.5	RD/BU	3240	Battery Positive Voltage	IV	-
27	0.35	RD/BU	7640	Battery Positive Voltage	III	-
30	0.35	RD/GN	40	Battery Positive Voltage	III	-
31	1	RD/GY	2140	Battery Positive Voltage	IV	-
32	1	RD/BU	2540	Battery Positive Voltage	IV	-
33	0.35	RD/GN	4440	Battery Positive Voltage	IV	-
	0.5	RD/GN	4440	Battery Positive Voltage	IV	-
34	0.75	RD/BU	5240	Battery Positive Voltage	IV	-
35	0.35	RD/GY	4840	Battery Positive Voltage	III	-
36	0.75	RD/GY	4140	Battery Positive Voltage	IV	-
37	0.75	RD/BN	3640	Battery Positive Voltage	IV	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
38	2	RD/WH	5440	Battery Positive Voltage	II	-
39	2.5	RD/VT	842	Battery Positive Voltage	VII	-
40	6	RD/GN	242	Battery Positive Voltage	VIII	-
41	0.5	WH/BN	6815	Inadvertent Power Control	IV	-
42	1	VT	1001	Retained Accessory Power Ignition	IV	-
43	0.5	BN	6815	Inadvertent Power Control	IV	-
44	3	VT/YE	4	Accessory Ignition Voltage	V	-
X1	6	RD/GN	242	Battery Positive Voltage	VI	-
X2	4	RD/WH	342	Battery Positive Voltage	I	-

X51A FUSE BLOCK - INSTRUMENT PANEL BOTTOM VIEW (KL9)

-
Connector Part Information
• Harness Type: Instrument Panel • OEM Connector: 33260162 • Service Connector: Service by Component Assembly - See Part Catalog • Description: Wire Entry

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575574	J-35616-5 (PU)	J-38125-36	Not Required	Not Required	Not Required	Not Required
II	13575856	J-35616-4A (PU)	J-38125-36	Not Required	Not Required	Not Required	Not Required
III	13575860	J-35616-4A (PU)	J-38125-36	Not Required	Not Required	Not Required	Not Required
IV	13578858	J-35616-4A (PU)	J-38125-36	Not Required	Not Required	Not Required	Not Required
V	13578864	J-35616-4A (PU)	J-38125-36	Not Required	Not Required	Not Required	Not Required
VI	13587365	J-35616-22 (RD)	J-38125-221	Not Required	Not Required	Not Required	Not Required
VII	13587366	J-35616-22 (RD)	J-38125-221	Not Required	Not Required	Not Required	Not Required
VIII	19300651	J-35616-43 (RD)	J-38125-557	Not Required	Not Required	Not Required	Not Required
IX	19333309	J-35616-42 (RD)	J-38125-36	Not Required	Not Required	Not Required	Not Required

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
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Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD/VT	4640	Battery Positive Voltage	IV	UQH
3	0.35	VT	1701	Retained Accessory Power Ignition	II	-
4	0.35	VT	2801	Retained Accessory Power Fuse Ignition	II	-
5	3	VT/YE	4	Accessory Ignition Voltage	V	-
6	0.75	BK	1350	Ground	IV	-
7	0.5	BN/GY	4048	Glove Box Door Release Control	IV	-
8	4	RD/WH	342	Battery Positive Voltage	IX	BT3
9	0.35	GY/GN	4083	RAP Relay 2 Coil Control	II	-
10	6	RD/GN	242	Battery Positive Voltage	IX	-
11	0.35	RD/GY	4840	Battery Positive Voltage	II	-
12	0.35	BN/WH	4046	Glove Box Door Release Relay Control	II	-
13	0.35	VT/BU	3263	Logistic Mode Relay Open Control	II	BT3
14	4	RD/WH	342	Battery Positive Voltage	IX	BT3
15	0.35	GY/VT	3264	Logistic Mode Relay Close Control	II	BT3
16	0.35	RD/GN	7740	Battery Positive Voltage	II	UVH
17	0.5	RD/VT	340	Battery Positive Voltage	IV	-
18	0.5	RD/WH	6440	Battery Positive Voltage	II	-
19	0.35	RD/GN	6940	Battery Positive Voltage	II	-
20	0.5	RD/YE	3740	Battery Positive Voltage	III	-
22	0.35	RD/YE	3040	Battery Positive Voltage	II	-
24	0.35	RD/BU	3940	Battery Positive Voltage	II	CW1/UE1
25	0.35	RD/VT	3340	Battery Positive Voltage	II	-
26	0.5	RD/BU	3240	Battery Positive Voltage	IV	-
27	0.35	RD/BU	7640	Battery Positive Voltage	II	UEU/UHX
30	0.5	RD/GN	40	Battery Positive Voltage	IV	-
31	1	RD/GY	2140	Battery Positive Voltage	IV	-
32	1	RD/BU	2540	Battery Positive Voltage	IV	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
33	0.5	RD/GN	4440	Battery Positive Voltage	IV	-
34	0.75	RD/BU	5240	Battery Positive Voltage	IV	KA1
35	0.35	RD/GY	4840	Battery Positive Voltage	II	-
36	0.75	RD/GY	4140	Battery Positive Voltage	IV	-
37	0.75	RD/BN	3640	Battery Positive Voltage	IV	-
38	2	RD/WH	5440	Battery Positive Voltage	I	-
39	2.5	RD/VT	842	Battery Positive Voltage	VIII	-
40	6	RD/GN	242	Battery Positive Voltage	IX	-
41	0.5	WH/BN	6815	Inadvertent Power Control	IV	-
42	1	VT	1001	Retained Accessory Power Ignition	IV	-
43	0.5	BN	6815	Inadvertent Power Control	IV	-
44	3	VT/YE	4	Accessory Ignition Voltage	V	-
X1	6	RD/GN	242	Battery Positive Voltage	VII	-
X2	4	RD/WH	342	Battery Positive Voltage	VI	-

A28 HYBRID/EV BATTERY CONTACTOR ASSEMBLY - FRONT VIEW (HP9)

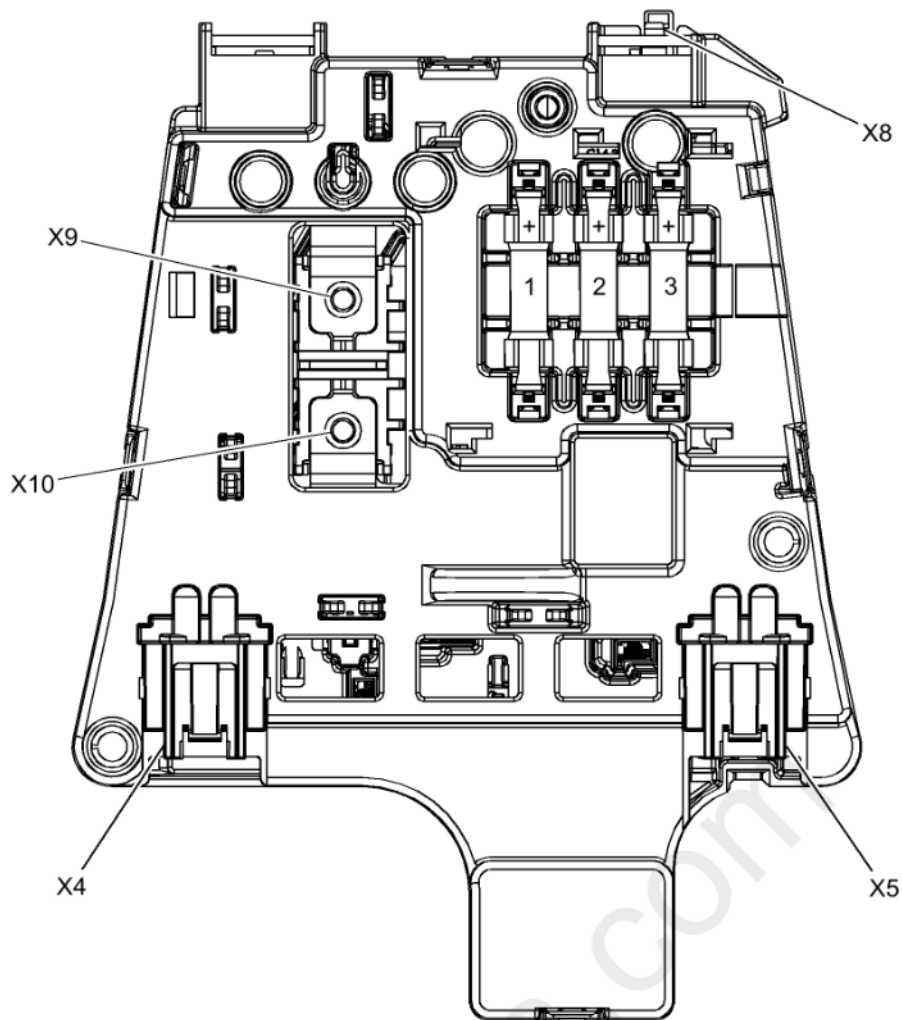


Fig. 1: A28 Hybrid/EV Battery Contactor Assembly - Front View (HP9) Fuses
 Courtesy of GENERAL MOTORS COMPANY

A28 HYBRID/EV BATTERY CONTACTOR ASSEMBLY FUSE IDENTIFICATION

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
F1	-	F1	40A	G1 A/C Compressor
F2	-	F2	15A	- K1 14V Power Module - T18 Battery Charger
F3	-	F3	30A	K10 Coolant Heater Control Module

A28 HYBRID/EV BATTERY CONTACTOR ASSEMBLY - REAR VIEW (HP9)

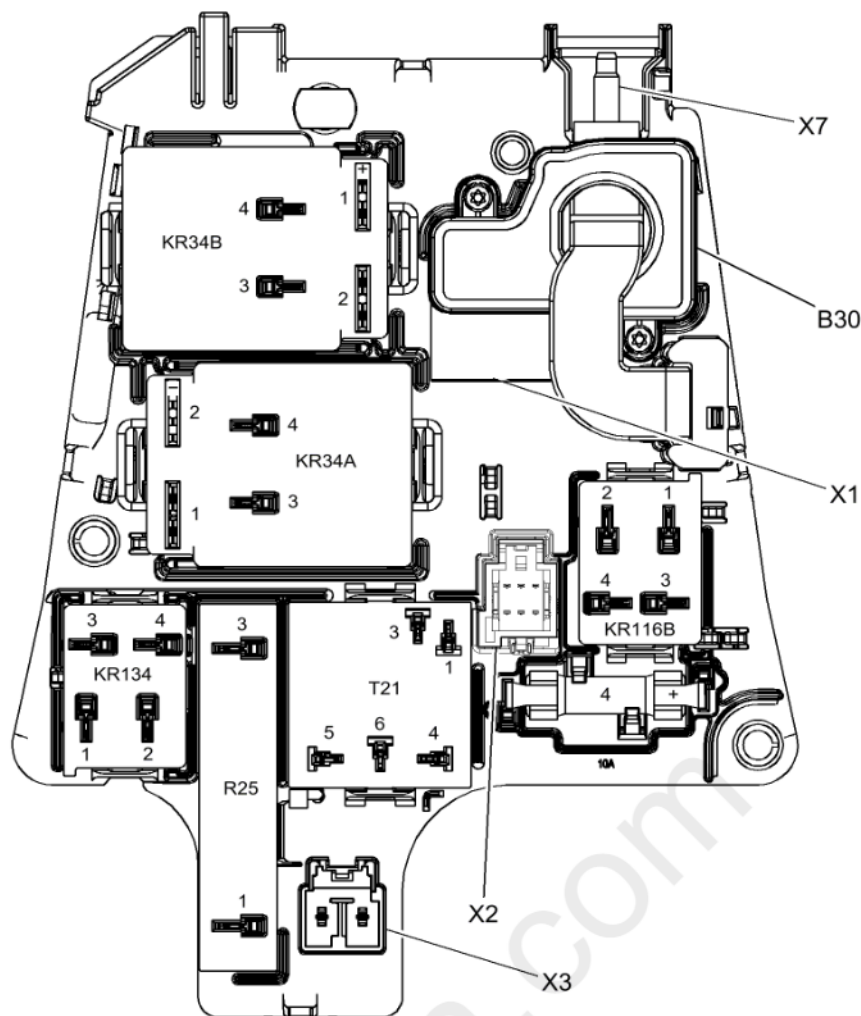


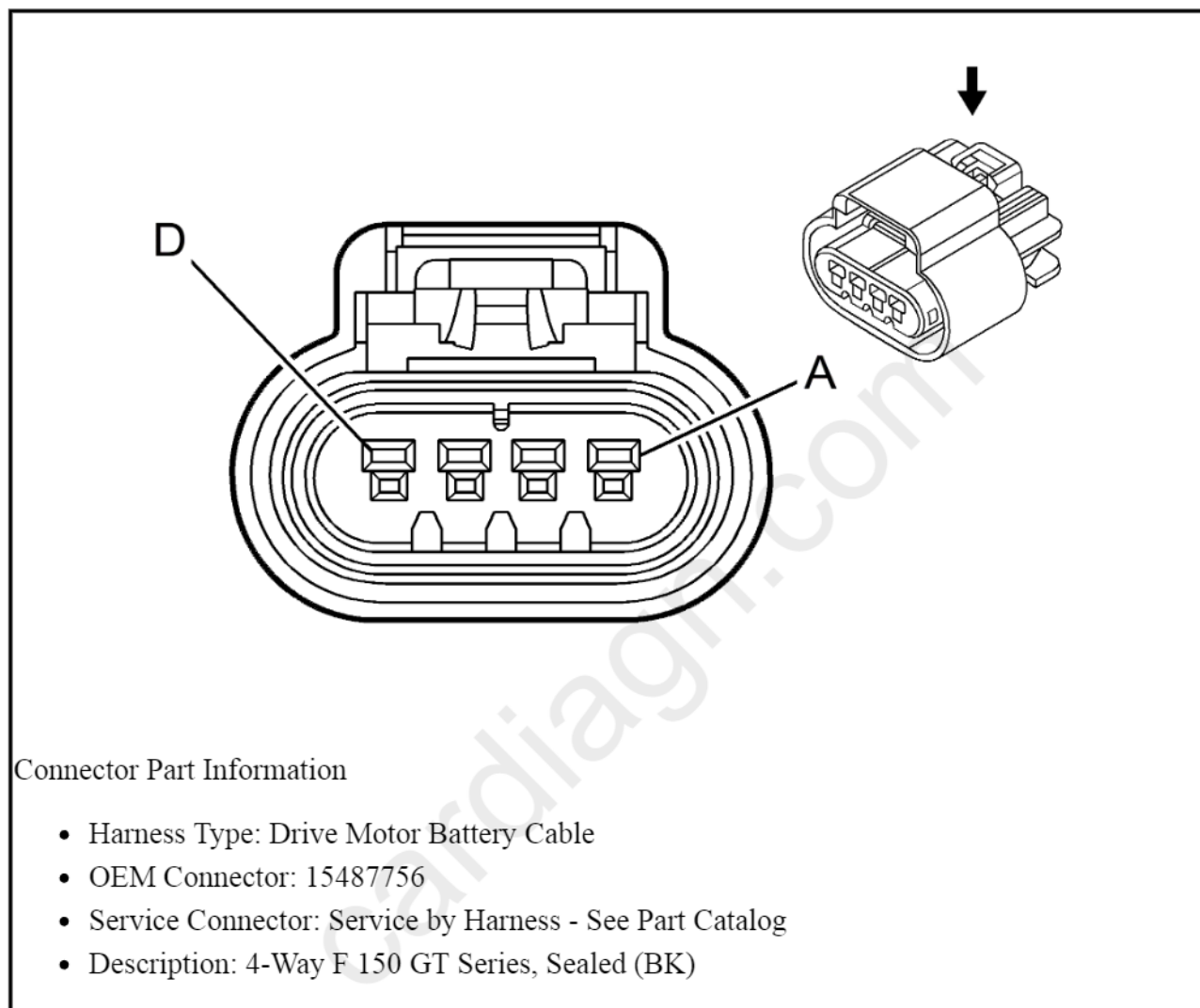
Fig. 2: A28 Hybrid/EV Battery Contactor Assembly - Rear View (HP9) Fuses And Relays
 Courtesy of GENERAL MOTORS COMPANY

A28 HYBRID/EV BATTERY CONTACTOR ASSEMBLY FUSE AND RELAY IDENTIFICATION

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
F4	-	F4	10A	- E54 Hybrid/EV Battery Pack Coolant Heater - T21 Hybrid/EV Battery Coolant Heater Transistor
Relays				
KR34B	-	KR34B Hybrid/EV Battery Positive Contactor	-	• -
KR34A	-	KR34A Hybrid/EV Battery Negative Contactor	-	• -
KR134	-	KR134 Pre-Charge Contactor	-	• -
KR116B	-	KR116B Battery Charging System Positive Contactor	-	• -

No.	Device Label Name	Device Assigned Name	Rating	Description
T21	-	T21 Hybrid/EV Battery Coolant Heater Transistor	-	• -
Resistors				
R25	-	R25	-	• -

A28 HYBRID/EV BATTERY CONTACTOR ASSEMBLY X1 (HP9)



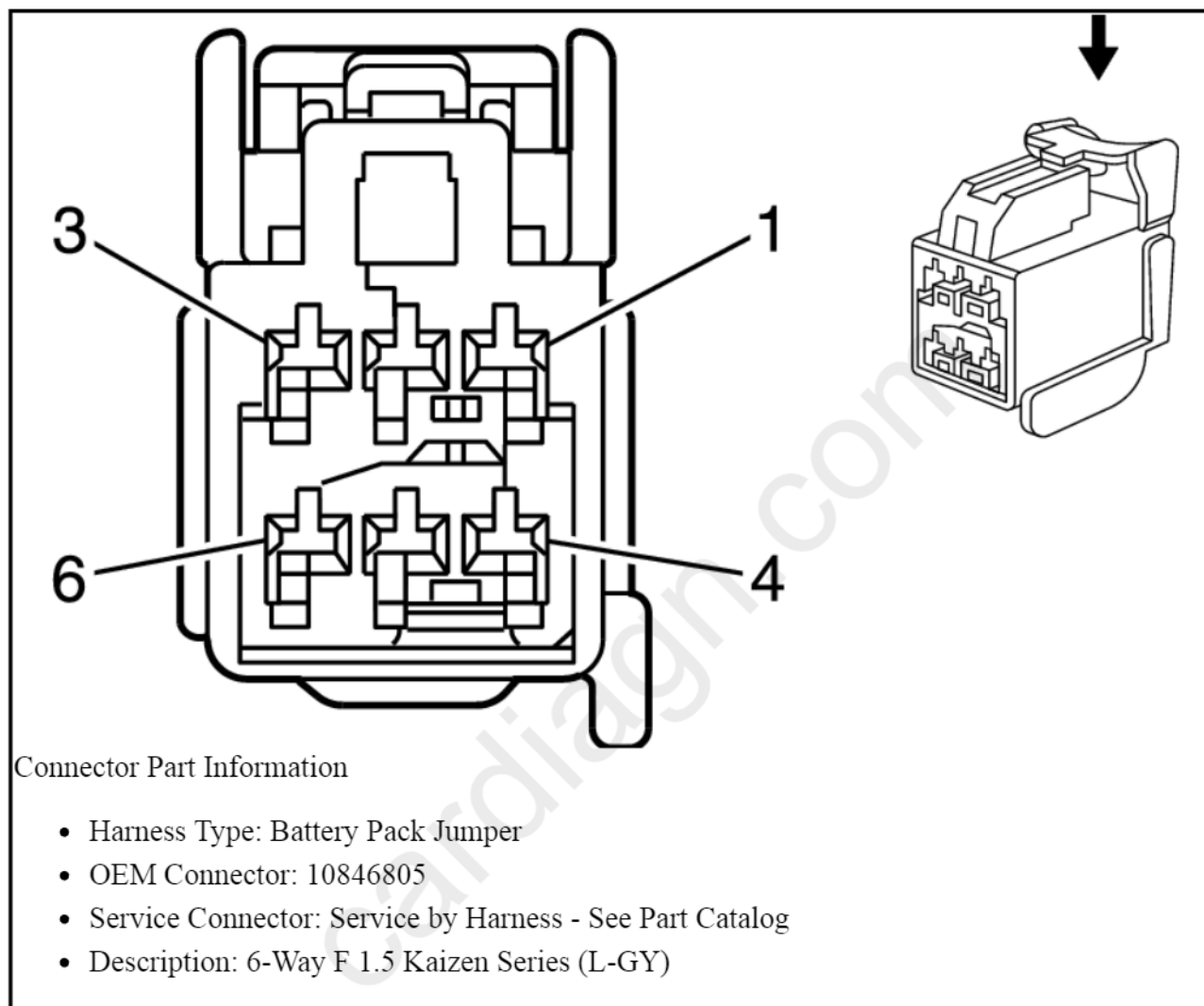
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not Required	J-35616-14 (GN)	No Tool Required

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	D-BU/YE	2962	High Voltage Battery Current Sensor Course Signal	I	-
B	0.5	VT/RD	2965	High Voltage Battery Current Sensor Voltage Reference	I	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
C	0.5	BK/GY	2963	High Voltage Battery Current Sensor Low Reference	I	-
D	0.5	L-GN/BN	2961	High Voltage Battery Current Sensor Fine Signal	I	-

A28 HYBRID/EV BATTERY CONTACTOR ASSEMBLY X2 (HP9)



Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not Required	J-35616-2A (GY)	No Tool Required

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/VT	5137	Precharge Relay PWM Signal	I	-
2	0.5	WH	3959	High Voltage Battery 1 (+) Relay Control	I	-
3	0.5	VT/GY	3961	High Voltage Battery (-) Relay Control	I	-
4	0.5	YE/VT	3962	High Voltage Battery 3 (+) Relay Control	I	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
5	0.5	BK	150	Ground	I	-
6	0.5	VT	3195	Auxiliary Heater Control	I	-

A28 HYBRID/EV BATTERY CONTACTOR ASSEMBLY X4 (HP9)

Connector Part Information

- Harness Type: Battery Cable
- OEM Connector: 15530997
- Service Connector: Service by Harness - See Part Catalog
- Description: 3-Way F 2.8 MCP Series (OG)

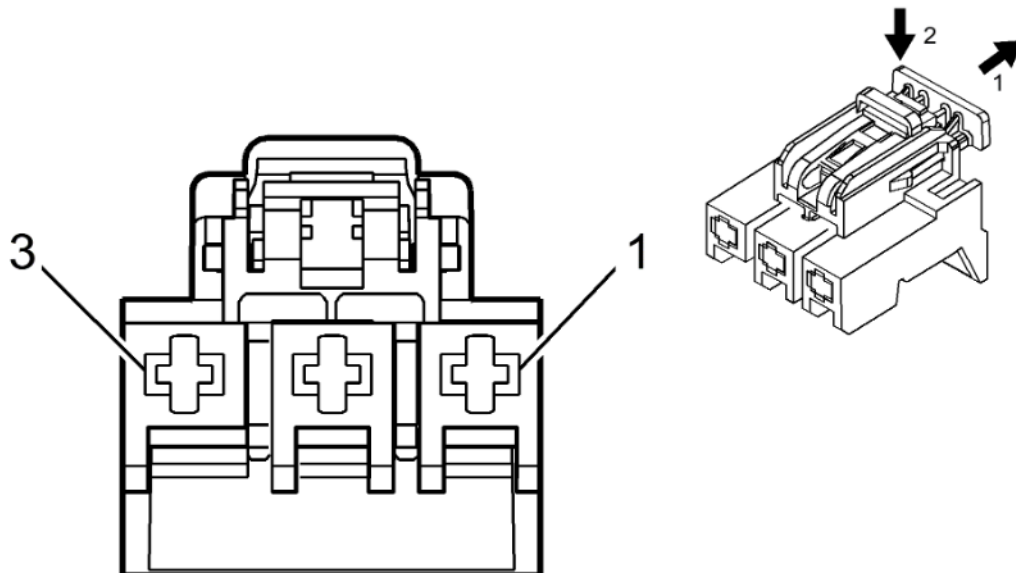
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not Required	J-35616-35 (VT)	No Tool Required

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	4	OG	3974	High Voltage Battery 5 (+)	I	-
2	4	OG	3970	High Voltage Battery 4 (+)	I	-
3	1.5	GN/OG	3834	High Voltage Battery 2 (+)	I	-

A28 HYBRID/EV BATTERY CONTACTOR ASSEMBLY X5 (HP9)

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Connector Part Information

- Harness Type: Battery Cable
- OEM Connector: 15531001
- Service Connector: Service by Harness - See Part Catalog
- Description: 3-Way F 2.8 MCP Series (OG)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not Required	J-35616-35 (VT)	No Tool Required

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	4	OG/BK	3973	High Voltage Battery 5 (-)	I	-
2	4	OG/BK	3969	High Voltage Battery 4 (-)	I	-
3	1.5	OG/BK	3833	High Voltage Battery 2 (-)	I	-

A28 HYBRID/EV BATTERY CONTACTOR ASSEMBLY X7 (HP9)

Connector Part Information

- Harness Type: High Voltage Bus Bar
- OEM Connector: PE297189
- 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
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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	40	OG	5084	High Voltage Battery (+)	I	-

A28 HYBRID/EV BATTERY CONTACTOR ASSEMBLY X8 (HP9)

-
Connector Part Information
• Harness Type: High Voltage Bus Bar • OEM Connector: PE297189 • 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	40	OG	5083	High Voltage Battery (-)	I	-

A28 HYBRID/EV BATTERY CONTACTOR ASSEMBLY X9 (HP9)

-
Connector Part Information
• Harness Type: High Voltage Battery Extension • OEM Connector: PE297190 • Service Connector: Service by Harness - See Part Catalog • Description: -Way

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	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	40	OG	3966	High Voltage Battery 3 (+)	I	-

A28 HYBRID/EV BATTERY CONTACTOR ASSEMBLY X10 (HP9)

-

Connector Part Information

- Harness Type: High Voltage Battery Extension
- OEM Connector: PE297191
- 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	40	OG	3965	High Voltage Battery 3 (-)	I	-

X53A FUSE BLOCK - REAR BODY LABEL

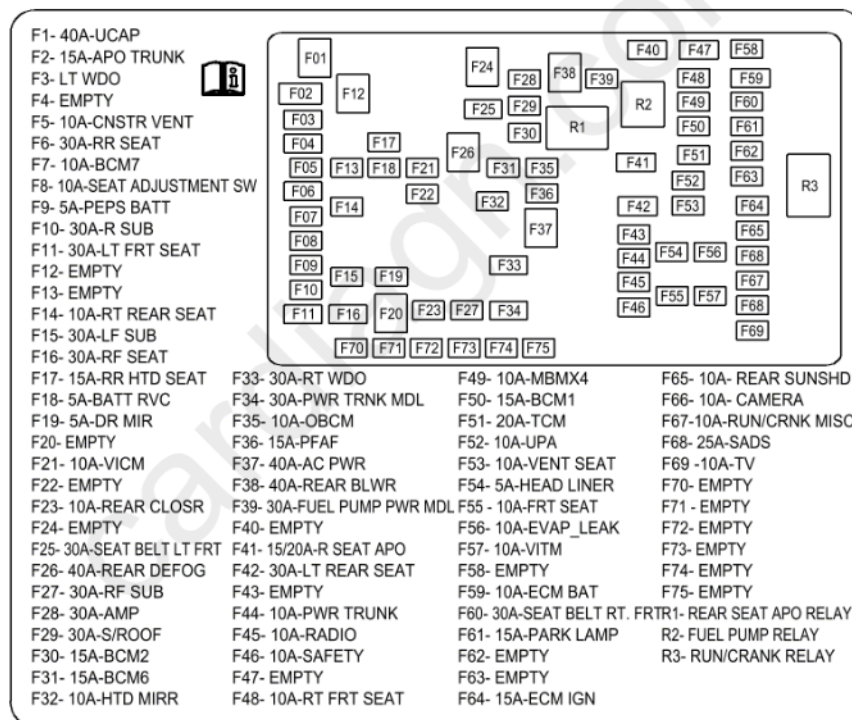


Fig. 3: X53A Fuse Block - Rear Body Label

Courtesy of GENERAL MOTORS COMPANY

X53A FUSE BLOCK - REAR BODY TOP VIEW

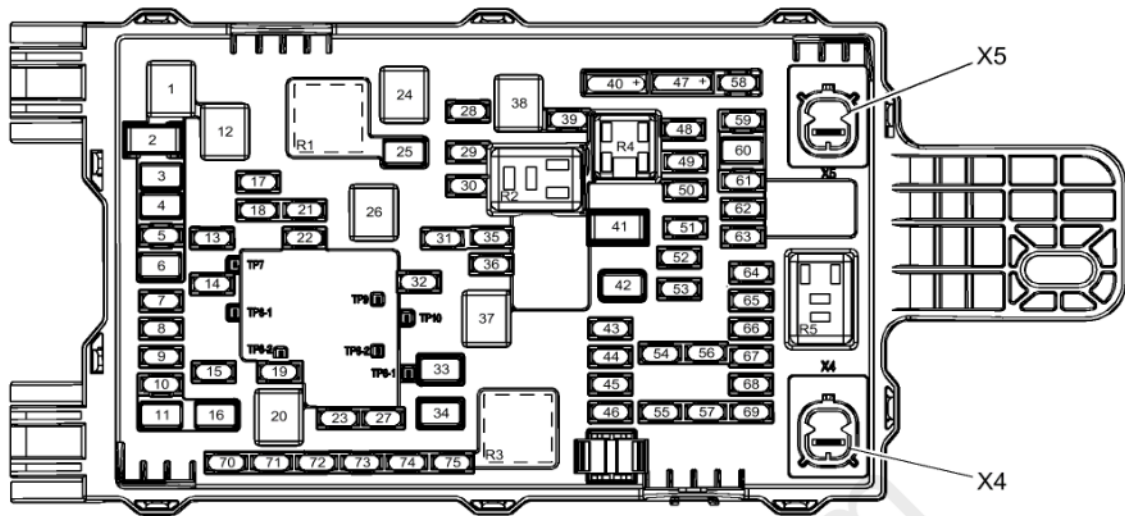


Fig. 4: X53A Fuse Block - Rear Body Top View
 Courtesy of GENERAL MOTORS COMPANY

X53A FUSE BLOCK - REAR BODY FUSE AND RELAY IDENTIFICATION LEGEND

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
1	UCAP	F1RA	40A	Not Used
2	APO TRUNK	F2RA	15A	X80C Accessory Power Receptacle - Cargo (KC8)
3	LT WDO	F3RA	30A	- M74D Window Motor - Driver - M74LR Window Motor - Left Rear
4	EMPTY	F4RA	-	-
5	CNSTR VENT	F5RA	10A	Q13 Evaporative Emission Vent Solenoid Valve (KL9)

No.	Device Label Name	Device Assigned Name	Rating	Description
6	RR SEAT	F6RA	30A	K40RR Seat Memory Control Module - Right Rear (AQ9)
7	BCM7	F7RA	10A	K9 Body Control Module
8	SEAT ADJUSTMENT SW	F8RA	10A	- S64P Seat Adjuster Switch - Passenger - S64LR Seat Adjuster Switch - Left Rear (AQ9) - S64RR Seat Adjuster Switch - Right Rear (AQ9)
9	PEPS BATT	F9RA	5A	K84 Keyless Entry Control Module
10	R SUB	F10RA	30A	T3R Audio Amplifier - Rear (UQH)
11	LT FRT SEAT	F11RA	30A	K40D Seat Memory Control Module - Driver
12	EMPTY	F12RA	40A	Not Used
13	EMPTY	F13RA	15A	Not Used
14	RT REAR SEAT	F14RA	10A	- K40LR Seat Memory Control Module - Left Rear - K40RR Seat Memory Control Module - Right Rear - S100LR Seat Heating/Venting/Cooling Switch - Left Rear - S100RR Seat Heating/Venting/Cooling Switch - Right Rear
15	LF SUB	F15RA	30A	T3LF Audio Amplifier - Left Front (UQH)
16	RF SEAT	F16RA	30A	K40P Seat Memory Control Module - Passenger
17	RT HTD SEAT	F17RA	15A	K29R Seat Heating Control Module - Rear (KA6)

No.	Device Label Name	Device Assigned Name	Rating	Description
18	BATT RVC	F18RA	5A	• K9 Body Control Module (HP9)
19	DR MIR	F19RA	5A	• K96 Mirror Control Module • S58B Rear Compartment Lid Unlatch Switch - Interior (HP9) • S64D Seat Adjuster Switch - Driver • S79D Window Switch - Driver • S79P Window Switch - Passenger
20	EMPTY	F20RA	40A	• Not Used
21	VICM	F21RA	10A	• K114B Hybrid/EV Powertrain Control Module 2 (HP9)
22	EMPTY	F22RA	-	• Not Used
23	REAR CLOSR	F23RA	10A	• KR95B Rear Compartment Lid Unlatch Relay
24	EMPTY	F24RA	-	• Not Used
25	SEAT BELT LT FRT	F25RA	30A	• M101L Seat Belt Retractor Motor Module - Left (AX7)
26	REAR DEFOG	F26RA	40A	• F32RA • R14L Rear Window Defogger Noise Filter - Left
27	RF SUB	F27RA	30A	• T3RF Audio Amplifier - Right Front (UQH)
28	AMP	F28RA	30A	• T3 Audio Amplifier
29	S/ROOF	F29RA	30A	• K80 Sunroof Sunshade Control Module (C3U) • M69 Sunroof Motor (C3U)
30	BCM2	F30RA	15A	• K9 Body Control Module
31	BCM6	F31RA	15A	• K9 Body Control Module

No.	Device Label Name	Device Assigned Name	Rating	Description
32	HTD MIRR	F32RA	10A	- E17D Outside Rearview Mirror Glass - Driver - E17P Outside Rearview Mirror Glass - Passenger
33	RT WDO	F33RA	30A	- M74P Window Motor - Passenger - M74RR Window Motor - Right Rear
34	PWR TRNK MDL	F34RA	30A	K39 Liftgate Control Module (TC2/TL9)
35	OBCM	F35RA	10A	K57 Battery Charger Control Module (HP9)
36	PFAF	F36RA	15A	K132 Pedestrian Alert Sound Control Module
37	AC PWR	F37RA	40A	T1 Accessory DC/AC Power Inverter Module (KI6/KI7)
38	REAR BLWR	F38RA	40A	K8A Blower Motor Control Module - Auxiliary (C24)
39	FUEL PUMP PWR MDL	F39RA	30A	K111 Fuel Pump Driver Control Module
40	EMPTY	F40RA	-	Not Used
41	R SEAT APO	F41RA	15/20A	- E32R Cigarette Lighter Receptacle - Rear (DUJ) - X80M Accessory Power Receptacle - Rear Seat (-DUJ)
42	LT REAR SEAT	F42RA	30A	K40LR Seat Memory Control Module - Left Rear (AQ9)
43	EMPTY	F43RA	-	Not Used
44	PWR TRUNK	F44RA	10A	- K39 Liftgate Control Module (TC2/TL9) - K171 Hands-Free Liftgate Sensor Control Module (TC2)

No.	Device Label Name	Device Assigned Name	Rating	Description
45	RADIO	F45RA	10A	- A11 Radio - X82 Audio/Video Input Adapter (UWG)
46	SAFETY	F46RA	10A	- B218L Side Object Sensor Module - Left (UKC) - B218R Side Object Sensor Module - Right (UKC) - B233B Radar Sensor Module - Long Range (UGN-HP9) - B233R Radar Sensor Module - Short Range Rear (UGN) - K124 Active Safety Control Module (UGN)
47	EMPTY	F47RA	-	Not Used
48	RT FRT SEAT	F48RA	10A	Not Used
49	MBMX4	F49RA	10A	- K134D Seat Bolster Memory Control Module - Driver (AR9/AQ9) - K134LR Seat Bolster Memory Control Module - Right Rear (AQ9) - K134P Seat Bolster Memory Control Module - Passenger (AR9/AQ9) - K134RR Seat Bolster Memory Control Module - Right Rear (AQ9)
50	BCM1	F50RA	15A	K9 Body Control Module
51	TCM	F51RA	20A	K71 Transmission Control Module
52	UPA	F52RA	10A	K182 Parking Assist Control Module

No.	Device Label Name	Device Assigned Name	Rating	Description
53	VENT SEAT	F53RA	10A	• K53D Seat Blower Assembly - Driver Back (KU9) • K53P Seat Blower Assembly - Passenger Back (KU9) • K55D Seat Blower Assembly - Left Rear Back (KU9) • K55P Seat Blower Assembly - Passenger Cushion (KU9) • Seat Blower Assembly - Left Rear Cushion (KA6+AQ9) • Seat Blower Assembly - Left Rear Back (KA6+AQ9) • Seat Blower Assembly - Right Rear Cushion (KA6+AQ9) • Seat Blower Assembly - Right Rear Back (KA6+AQ9)
54	HEAD LINER	F54RA	5A	• B117 Rain Sensor • B164 Content Theft Deterrent Sensor Module (UTU/UTV) • P25 Power Sounder Content Theft Deterrent Alarm Module (UTR) • S25 Garage Door Opener (UG1)
55	FRT SEAT	F55RA	10A	• K40D Seat Memory Control Module - Driver • K40P Seat Memory Control Module - Passenger
56	EVAP_LEAK	F56RA	10A	• A34 HVAC Controls - Auxiliary (C24) • Q13 Evaporative Emission Vent Solenoid Valve (HP9) • Q63 Evaporative Emission System Leak Detection Pump Assembly (HP9)
57	VITM	F57RA	10A	• K16 Battery Energy Control Module (HP9)
58	EMPTY	F58RA	-	• Not Used
59	ECM BAT	F59RA	10A	• K20 Engine Control Module

No.	Device Label Name	Device Assigned Name	Rating	Description
60	SEAT BELT RT FRT	F60RA	30A	M101R Seat Belt Retractor Motor Module - Right (AX7)
61	PARK LAMP	F61RA	15A	Not Used
62	EMPTY	F62RA	-	Not Used
63	EMPTY	F63RA	-	Not Used
64	ECM IGN	F64RA	15A	K20 Engine Control Module
65	REAR SUNSHD	F65RA	10A	K50 Rear Window Sunshade Module (DB3)
66	CAMERA	F66RA	10A	- A10 Inside Rearview Mirror - B87 Rearview Camera (UVC)
67	RUN/CRNK MISC	F67RA	10A	- B108 Air Quality Sensor - T19 Power Supply Transformer (KL9)
68	SADS	F68RA	25A	K19 Suspension Control Module (F55)
69	TV	F69RA	10A	Not Used
70	EMPTY	F70RA	-	Not Used
71	EMPTY	F71RA	-	Not Used
72	EMPTY	F72RA	-	Not Used
73	EMPTY	F73RA	-	Not Used
74	EMPTY	F74RA	-	Not Used
F75	EMPTY	F75RA	-	Not Used

X53A FUSE BLOCK - REAR BODY BOTTOM VIEW

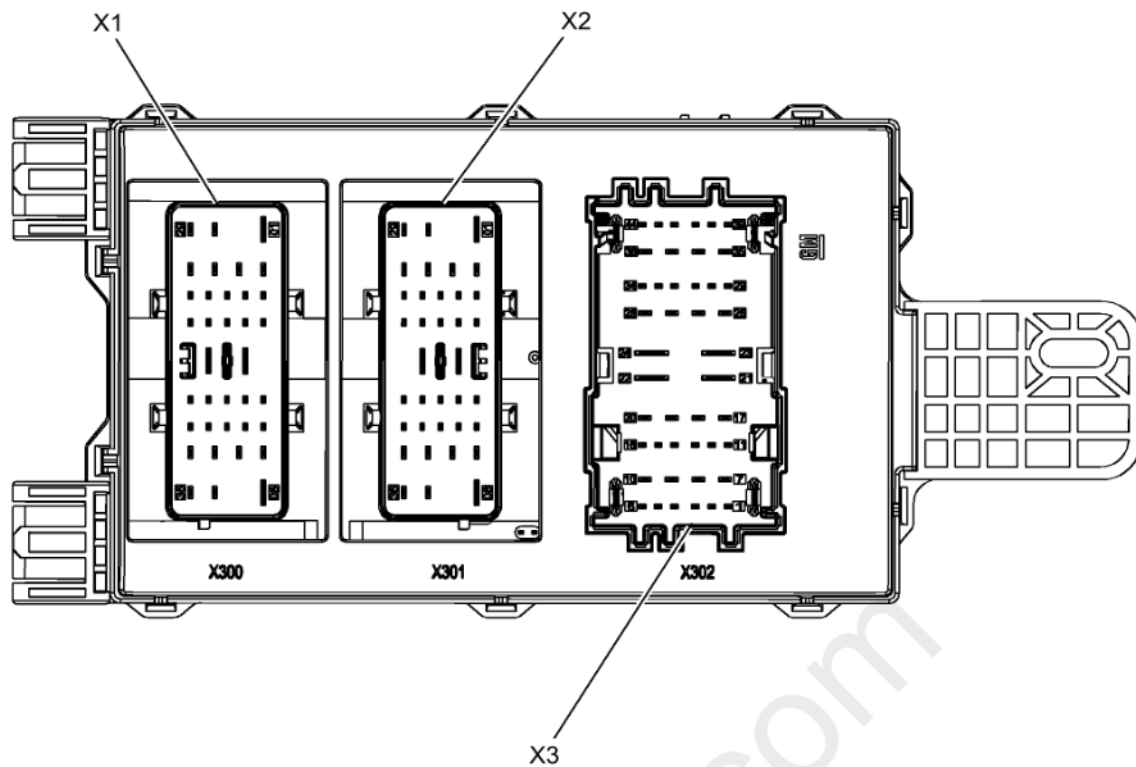
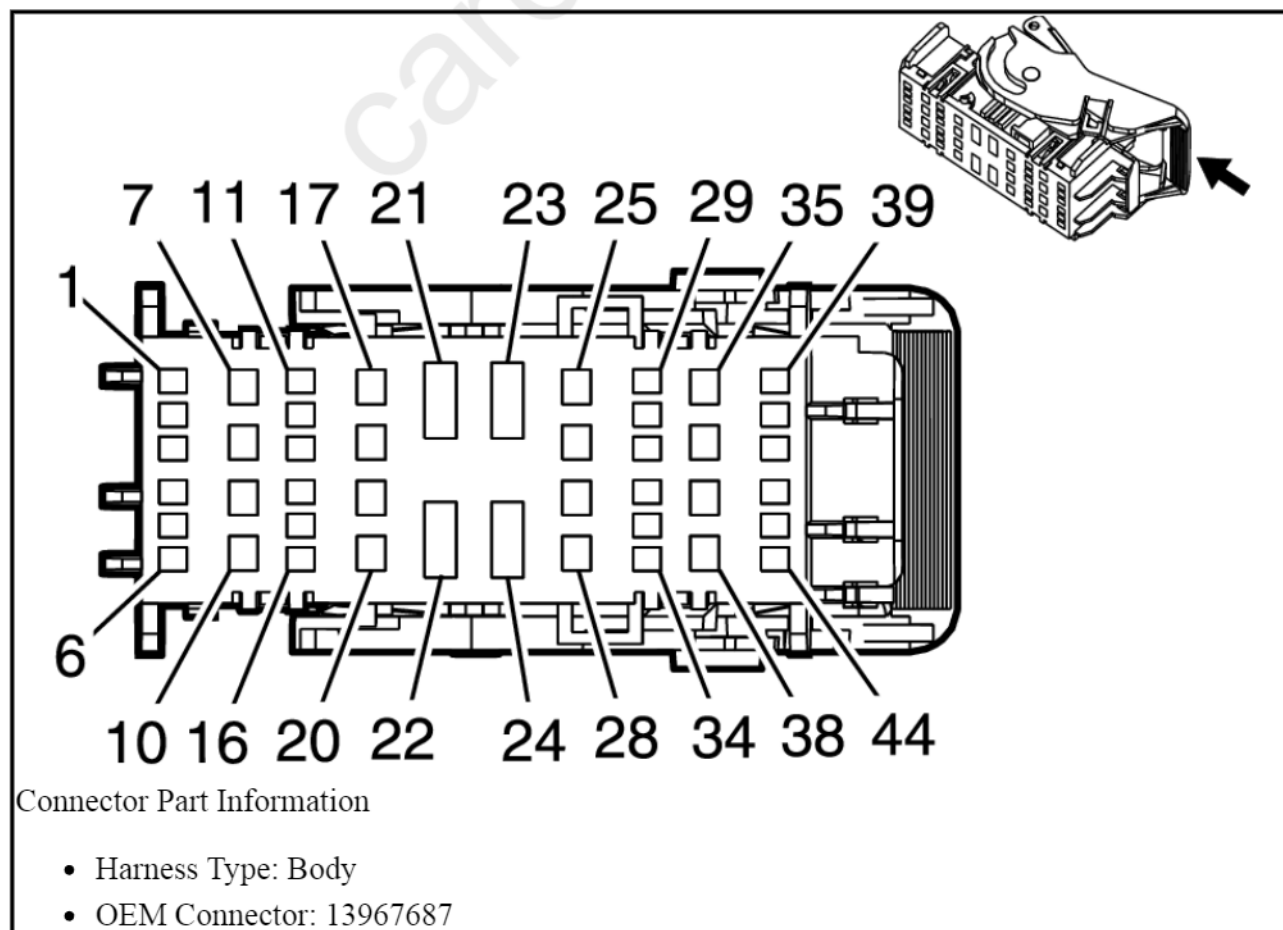


Fig. 5: X53A Fuse Block - Rear Body Bottom View
 Courtesy of GENERAL MOTORS COMPANY

X53A FUSE BLOCK - REAR BODY X1



- Service Connector: 19329455
- Description: 44-Way F 1.5, 2.8, 800 Metri-Pack Series (BK)

Terminal Part Information

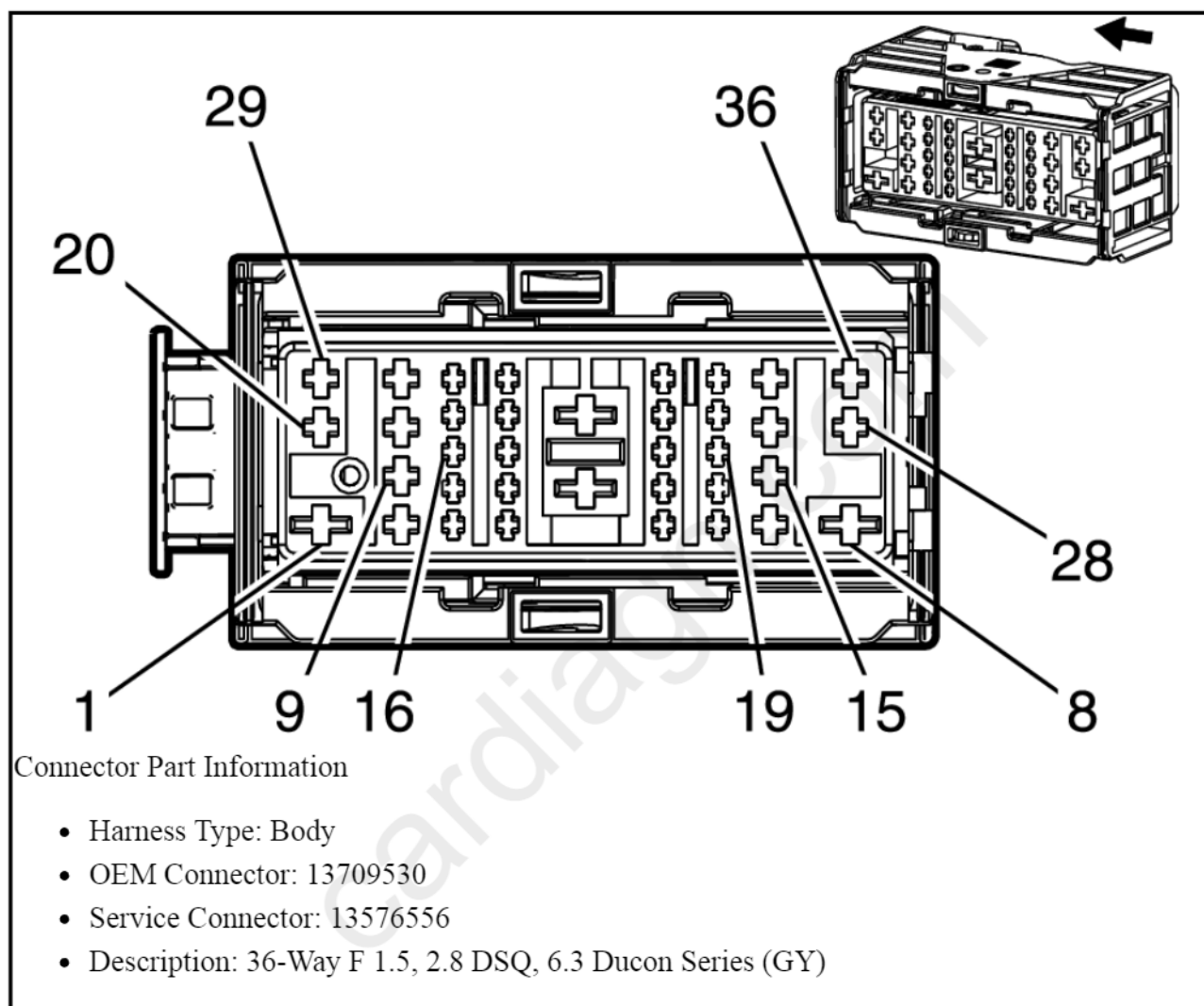
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575355	J-35616-44 (YE)	J-38125-558	12110127	Delphi 19	F	G
II	13575465	J-35616-44 (YE)	J-38125-558	12065915	Delphi 5	C	A
III	13575543	J-35616-35 (VT)	J-38125-12A	1326030-8	Lear 17	A	4
IV	13575718	J-35616-44 (YE)	J-38125-558	12110127	Delphi 19	F	G
V	13578892	J-35616-2A (GY)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
VI	19301761	J-35616-35 (VT)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
VII	19301767	J-35616-2A (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	RD/BN	440	Battery Positive Voltage	VII	-
2 - 5	-	-	-	Not Occupied	-	-
6	0.35	GN/VT	5199	Run/Crank Relay Coil Control	VII	-
7	2.5	RD/GN	6140	Battery Positive Voltage	VI	AX7
8	0.5	RD/WH	2040	Battery Positive Voltage	VI	AR9/AQ9
9	-	-	-	Not Occupied	-	-
10	2.5	RD/VT	2640	Battery Positive Voltage	VI	-
11 - 13	-	-	-	Not Occupied	-	-
14	1	RD/VT	4040	Battery Positive Voltage	VII	-
15	-	-	-	Not Occupied	-	-
16	0.35	GY/GN	4083	RAP Relay 2 Coil Control	VII	-
17	-	-	-	Not Occupied	-	-
18	0.35	RD/GN	3140	Battery Positive Voltage	VI	-
19	2	RD/GN	1840	Battery Positive Voltage	VI	-
20	0.35	GY/VT	3264	Logistic Mode Relay Close Control	VI	-
21	4 4	RD/GY RD/GY	642 142	Battery Positive Voltage Battery Positive Voltage	IV IV	HP9 KL9

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
22	1	VT	2101	Retained Accessory Power Fuse Ignition	II	-
23	-	-	-	Not Occupied	-	-
24	2.5	RD/WH	5740	Battery Positive Voltage	I	AQ9/KA6
25	0.35	VT/BK	1239	Run/Crank Ignition 1 Voltage	VI	DB3
26	0.5 0.35	VT/GN VT/GN	1339 1339	Run/Crank Ignition 1 Voltage Run/Crank Ignition 1 Voltage	VI VI	DD8/DRZ UVC
27	2.5	BK	1350	Ground	VI	-
28	0.35	VT/BU	3263	Logistic Mode Relay Open Control	VI	-
29	0.5	VT/GN	1339	Run/Crank Ignition 1 Voltage	VII	-
30	0.5	VT/GN	839	Run/Crank Ignition 1 Voltage	VII	-
31	-	-	-	Not Occupied	-	-
32	0.5 0.75	VT/BK VT/BK	739 739	Run/Crank Ignition 1 Voltage Run/Crank Ignition 1 Voltage	V VII	AQ9/KA6 KU9
33	0.5 0.75	VT/BK VT/BK	739 739	Run/Crank Ignition 1 Voltage Run/Crank Ignition 1 Voltage	V VII	AQ9/KA6 KU9
34	-	-	-	Not Occupied	-	-
35	2	RD/GN	5140	Battery Positive Voltage	III	F55
36	0.5	RD/BU	840	Battery Positive Voltage	VI	C24
37	0.35	RD/BU	4540	Battery Positive Voltage	VI	-
38	0.5	RD/GY	7040	Battery Positive Voltage	VI	TC2
39	0.35	RD/GN	1540	Battery Positive Voltage	VII	-
40	0.35	RD/VT	1640	Battery Positive Voltage	VII	-
41	0.5	VT/GN	439	Run/Crank Ignition 1 Voltage	VII	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
42	0.5	RD/GY	2042	Battery Positive Voltage	VII	-
43	0.5	RD/GY	2140	Battery Positive Voltage	VII	-
44	0.5	RD/GN	3840	Battery Positive Voltage	VII	UKC+UGN/UVZ
	0.35	RD/GN	3840	Battery Positive Voltage	VII	UKC-UGN-UVZ

X53A FUSE BLOCK - REAR BODY X2



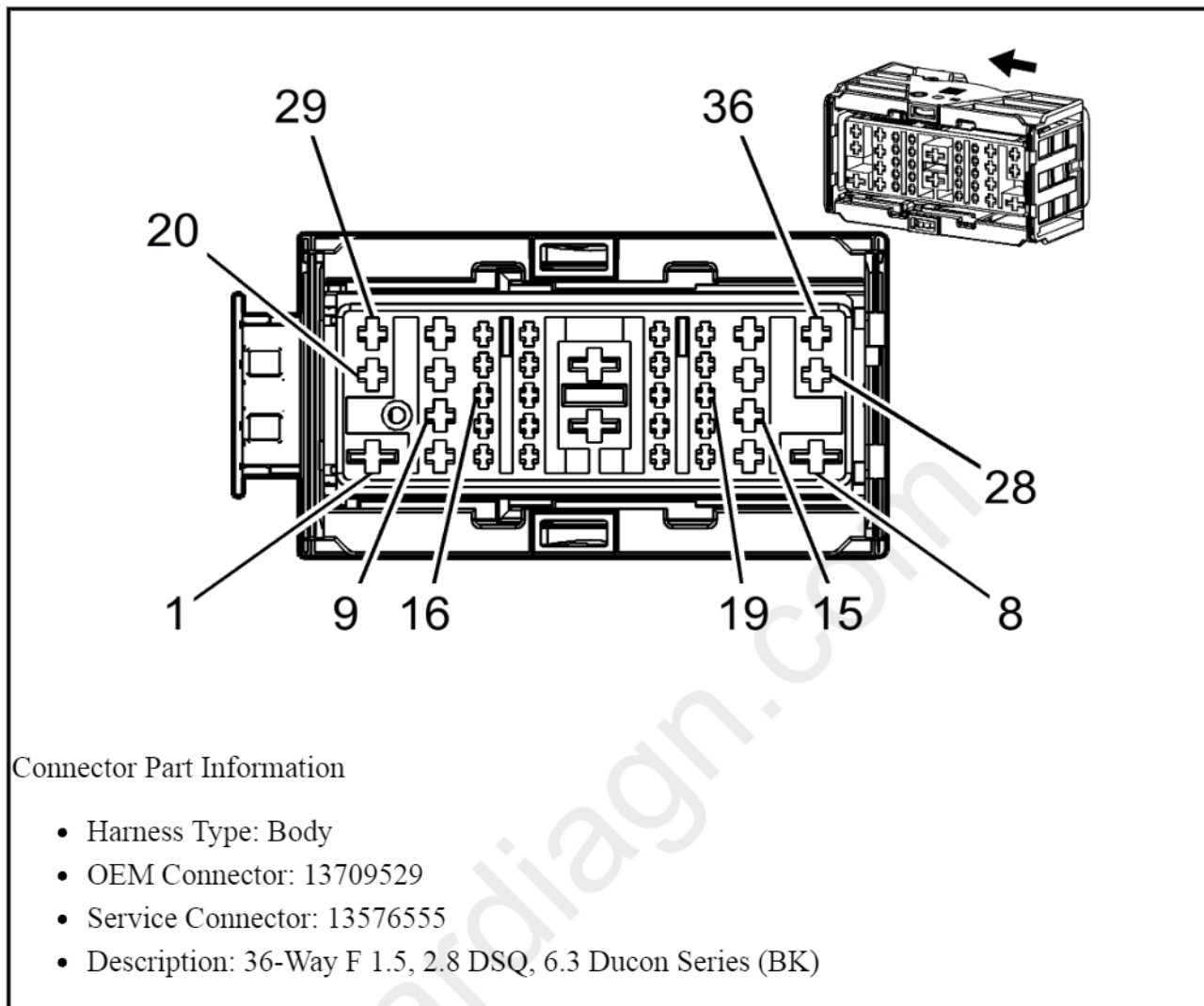
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575730	J-35616-42 (RD)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
II	13575747	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
III	13575773	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
IV	13575774	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
V	13575780	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
VI	13575781	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	RD/VT	7140	Battery Positive Voltage	I	TC2
2	2	RD/WH	4042	Battery Positive Voltage	VI	-
3	0.35	WH/GN	4628	DC/AC Inverter Relay Control	III	KI6/KI7
4	-	-	-	Not Occupied	-	-
5	0.5	RD/BU	1240	Battery Positive Voltage	III	-
6	0.5	RD/WH	640	Battery Positive Voltage	III	-
7	0.75	RD/BN	2240	Battery Positive Voltage	V	-
8	4	RD/VT	542	Battery Positive Voltage	I	C24
9	2.5	RD/WH	4042	Battery Positive Voltage	VI	-
10	-	-	-	Not Occupied	-	-
11	0.5	BN/YE	2267	Mirror Heating Element Control	III	-
12	6	BN/BK	4629	DC/AC Inverter Control	I	KI6/KI7
13 - 14	-	-	-	Not Occupied	-	-
15	2.5	RD/GY	3540	Battery Positive Voltage	VI	C3U
16	-	-	-	Not Occupied	-	-
17	0.5	BN/YE	2267	Mirror Heating Element Control	III	-
18	1	RD/WH	3440	Battery Positive Voltage	IV	-
19	-	-	-	Not Occupied	-	-
20	3	RD/BN	2940	Battery Positive Voltage	II	UQH
21	-	-	-	Not Occupied	-	-
22	0.35	GY/YE	6188	Lift Glass/Rear Compartment Lid Motor Release Control	III	-TC2
23	0.35	BK	3850	Ground	III	-
24	5	BN/VT	293	Rear Defog Element Control	I	-
25 - 26	-	-	-	Not Occupied	-	-
27	2.5	RD/BU	6040	Battery Positive Voltage	VI	AX7
28	3	RD/YE	3740	Battery Positive Voltage	II	-
29 - 30	-	-	-	Not Occupied	-	-
31	0.5	BU/WH	6128	Rear Closure Unlatch Motor Unlatch Control	III	-
32 - 33	-	-	-	Not Occupied	-	-
34	0.35	BN/VT	193	Rear Defog Relay Control	III	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
35	4	RD/WH	342	Battery Positive Voltage	II	-
36	-	-	-	Not Occupied	-	-

X53A FUSE BLOCK - REAR BODY X3



Terminal Part Information

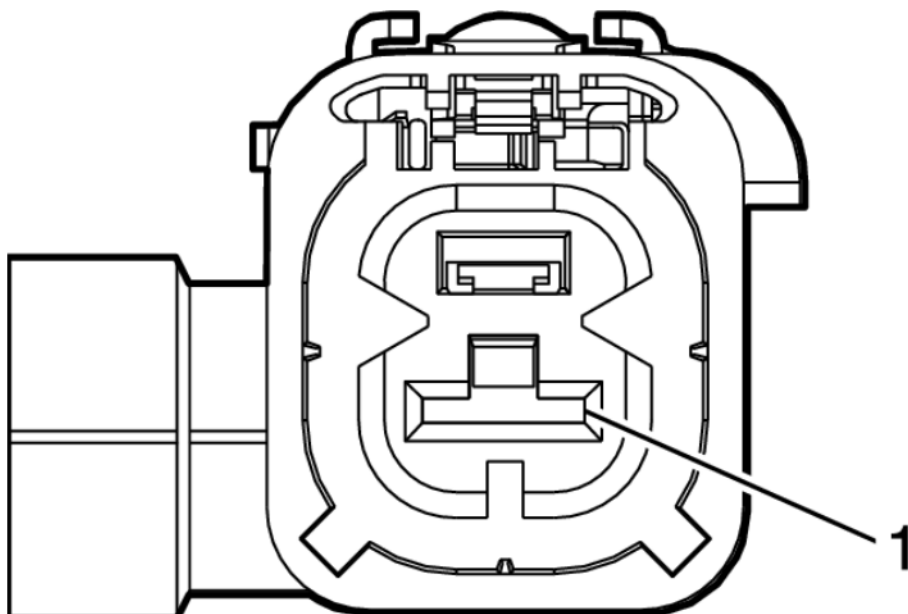
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575730	J-35616-42 (RD)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
II	13575747	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
III	13575773	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
IV	13575774	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
V	13575780	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
VI	13575781	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
VII	13578869	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
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Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	1	BN	5910	Door Double Lock Actuator Lock Control	V	UTT
3	-	-	-	Not Occupied	-	-
4	0.75	GY	5911	Door Lock Actuator Lock Control 2	IV	-
5	-	-	-	Not Occupied	-	-
6	0.75	RD/WH	1340	Battery Positive Voltage	IV	-
7 - 8	-	-	-	Not Occupied	-	-
9	0.5	RD/VT	1940	Battery Positive Voltage	V	-
10	1.5	BU/WH	195	Door Lock Control	VII	-
11	0.35	BN/YE	186	Fuel Door Lock Relay Control	III	N08
12	-	-	-	Not Occupied	-	-
13	0.35	RD/YE	2340	Battery Positive Voltage	III	-
14	0.75	RD/WH	4740	Battery Positive Voltage	IV	KA6
15	-	-	-	Not Occupied	-	-
16	0.35	BU/BN	7547	Security Lock Relay Control	III	UTT
17	0.75	BU	6800	Fuel Door Lock/Unlock 1 Signal	IV	N08
18 - 19	-	-	-	Not Occupied	-	-
20	2.5	RD/BN	6640	Battery Positive Voltage	VI	-
21	3	RD/YE	5040	Battery Positive Voltage	II	UQH
22	0.5	RD/YE	4340	Battery Positive Voltage	III	-
23	0.5	RD/BN	7540	Battery Positive Voltage	III	AQ9/KA6
24	2.5	RD/YE	5840	Battery Positive Voltage	I	AQ9
25 - 26	-	-	-	Not Occupied	-	-
27	2.5	RD/BU	1842	Battery Positive Voltage	VI	-
28	-	-	-	Not Occupied	-	-
29	2.5	RD/GY	5540	Battery Positive Voltage	VI	-
30	3	RD/BN	1140	Battery Positive Voltage	II	UQH
31	0.5	RD/GY	1740	Battery Positive Voltage	III	-
32	0.5	RD/GN	5140	Battery Positive Voltage	III	-
33	0.5	RD/GN	2440	Battery Positive Voltage	III	-
34	-	-	-	Not Occupied	-	-
35	2.5	RD/BU	1842	Battery Positive Voltage	VI	F55
36	1	RD/BN	1440	Battery Positive Voltage	V	-

X53A FUSE BLOCK - REAR BODY X4





Connector Part Information

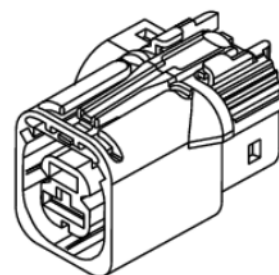
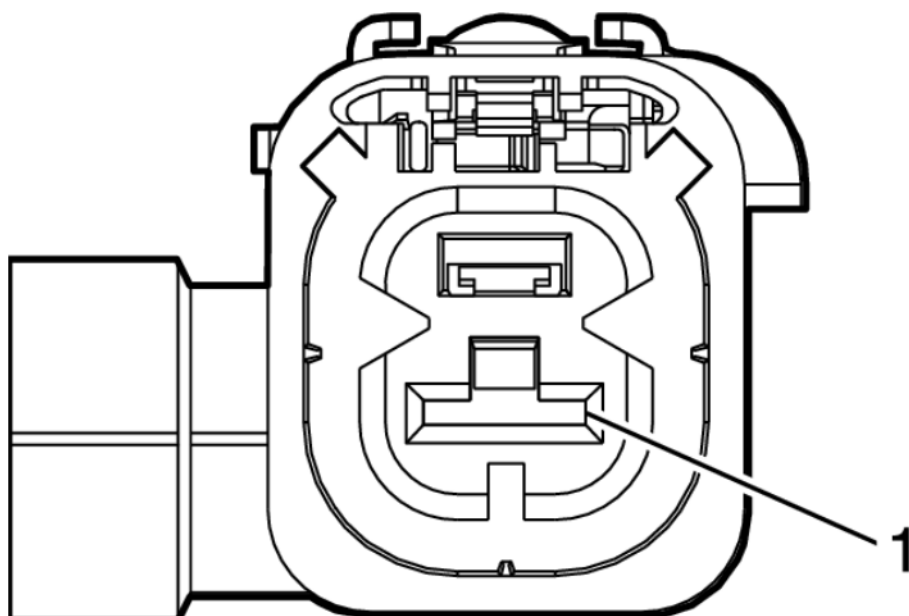
- Harness Type: Body
- OEM Connector: 33106575
- Service Connector: Service by Harness - See Part Catalog
- Description: 1-Way F 6.3 Series (GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	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 X5



Connector Part Information

- Harness Type: Body
- OEM Connector: 33107724
- Service Connector: Service by Harness - See Part Catalog
- Description: 1-Way F 6.3 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/GY	142	Battery Positive Voltage	I	-

X50D FUSE BLOCK - BATTERY TOP VIEW

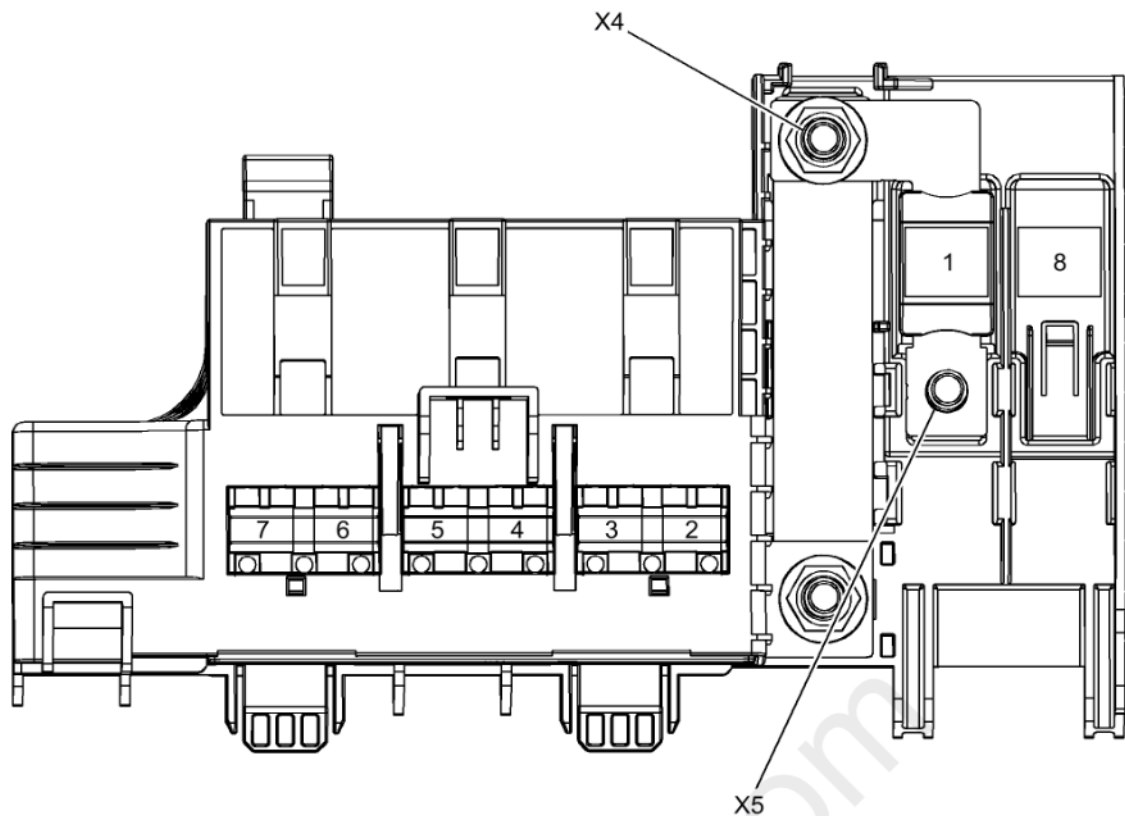


Fig. 6: X50D Fuse Block - Battery Top View
 Courtesy of GENERAL MOTORS COMPANY

X50D FUSE BLOCK - BATTERY FUSE IDENTIFICATION

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
1	F1RB	F1RB	-	X50B Fuse Block - Underhood Auxiliary (HP9)
2	F2RB	F2RB	80A	K92 Rear Wheel Steering Control Module (NYS)
3	F3RB	F3RB	40A	- T19 Power Supply Transformer (KL9) - X51A Fuse Block - Instrument Panel (HP9) - X53 Fuse Block - Rear Body (HP9)
4	F4RB	F4RB	100A	X53A Fuse Block - Rear Body

No.	Device Label Name	Device Assigned Name	Rating	Description
5	F5RB	F5RB	100A	• X53A Fuse Block - Rear Body
6	F6RB	F6RB	60A	• X51A Fuse Block - Instrument Panel
7	F7RB	F7RB	40A	• T19 Power Supply Transformer (KL9) • X53A Fuse Block - Rear Body (HP9)
8	F8RB	F8RB	400A	• X50B Fuse Block - Underhood Auxiliary (KL9) • M64 Starter Motor (KL9)

X50D FUSE BLOCK - BATTERY SIDE VIEW

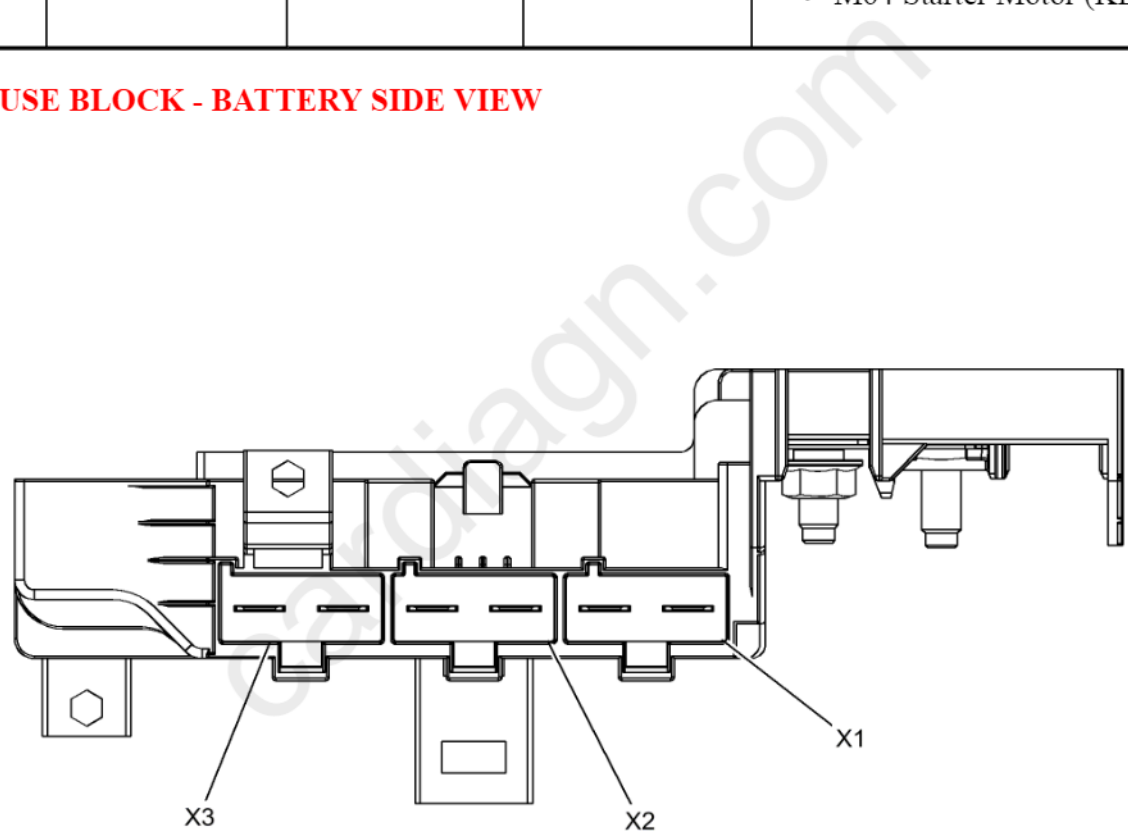
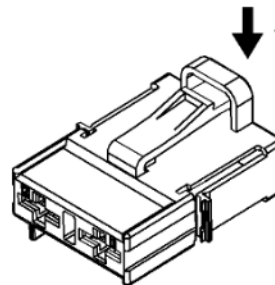
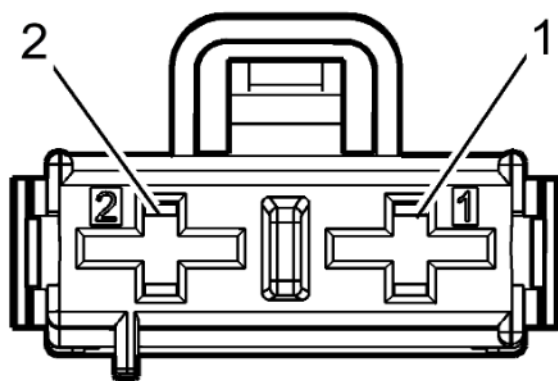


Fig. 7: X50D Fuse Block - Battery Side View
 Courtesy of GENERAL MOTORS COMPANY

X50D FUSE BLOCK - BATTERY X1





Connector Part Information

- Harness Type: Body
- OEM Connector: 33126980
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 9.5 MAK Series (VT)

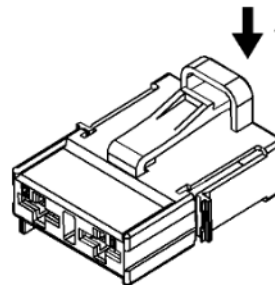
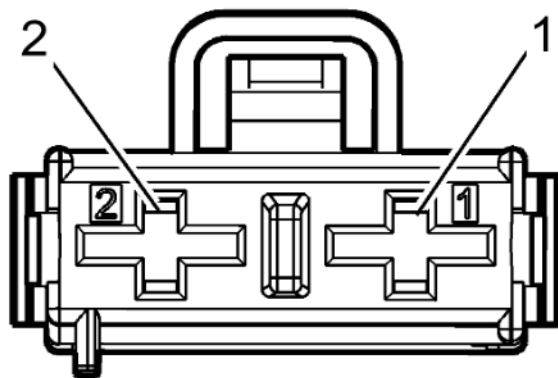
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-22 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-44 (YE)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	10	RD/GN	742	Battery Positive Voltage	II	NYS
2	4 4	RD/WH RD/VT	342 6340	Battery Positive Voltage Battery Positive Voltage	I II	HP9 KL9

X50D FUSE BLOCK - BATTERY X2





Connector Part Information

- Harness Type: Body
- OEM Connector: 33126981
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 9.5 MAK Series (GY)

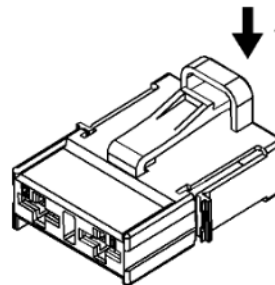
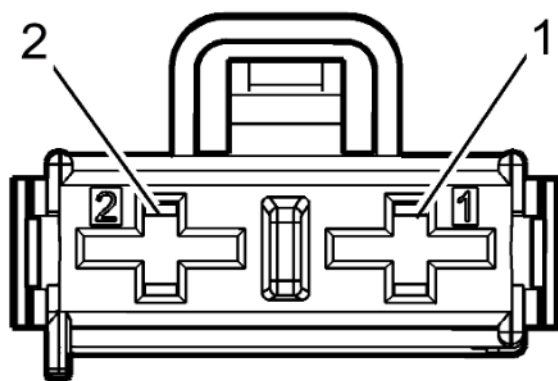
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-44 (YE)	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	-
2	10	RD/GY	142	Battery Positive Voltage	I	-

X50D FUSE BLOCK - BATTERY X3





Connector Part Information

- Harness Type: Body
- OEM Connector: 33126983
- Service Connector: 19333343
- Description: 2-Way F 9.5 MAK 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-35616-44 (YE)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	6	RD/GN	242	Battery Positive Voltage	I	-
2	4	RD/GY	642	Battery Positive Voltage	I	-