

2014 ELECTRICAL

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

ELECTRICAL CENTER IDENTIFICATION VIEWS

X50A FUSE BLOCK - UNDERHOOD LABEL (LUV)

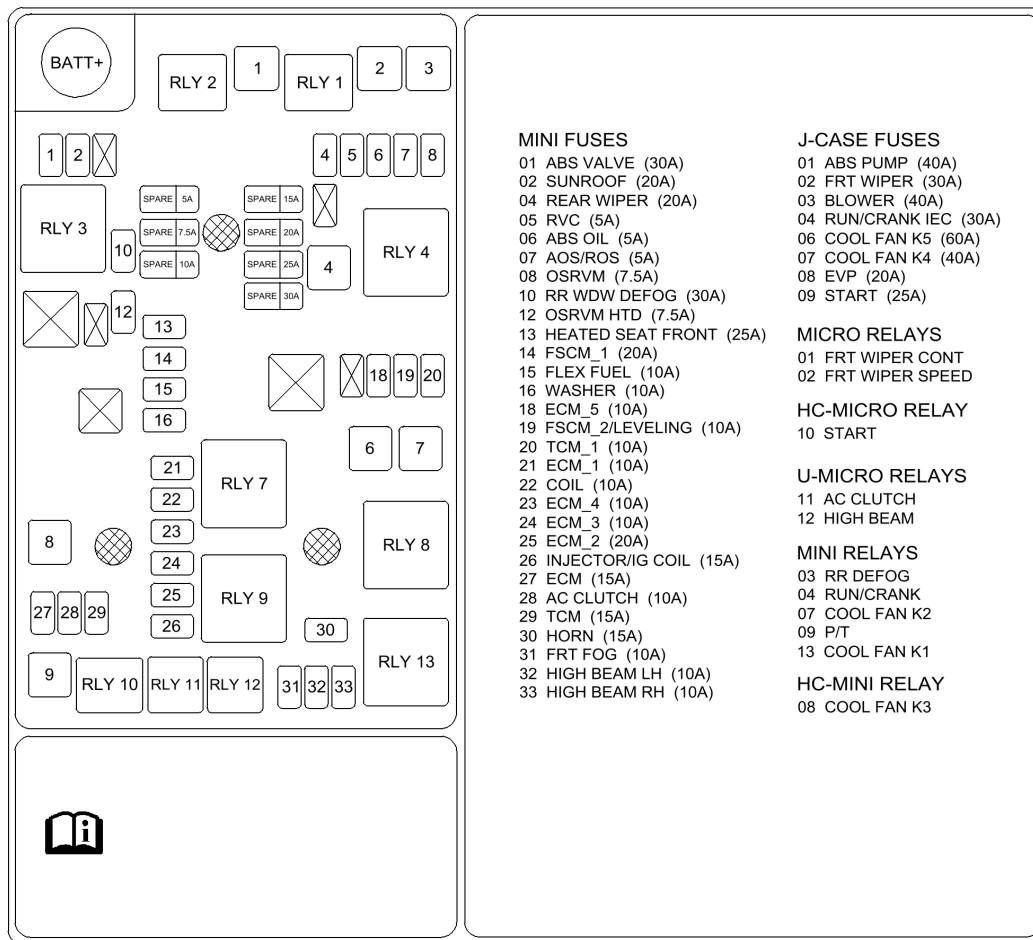


Fig. 1: X50A Fuse Block - Fuse And Relay Underhood Label (LUV)
 Courtesy of GENERAL MOTORS COMPANY

X50A FUSE BLOCK - UNDERHOOD LABEL (LUW)

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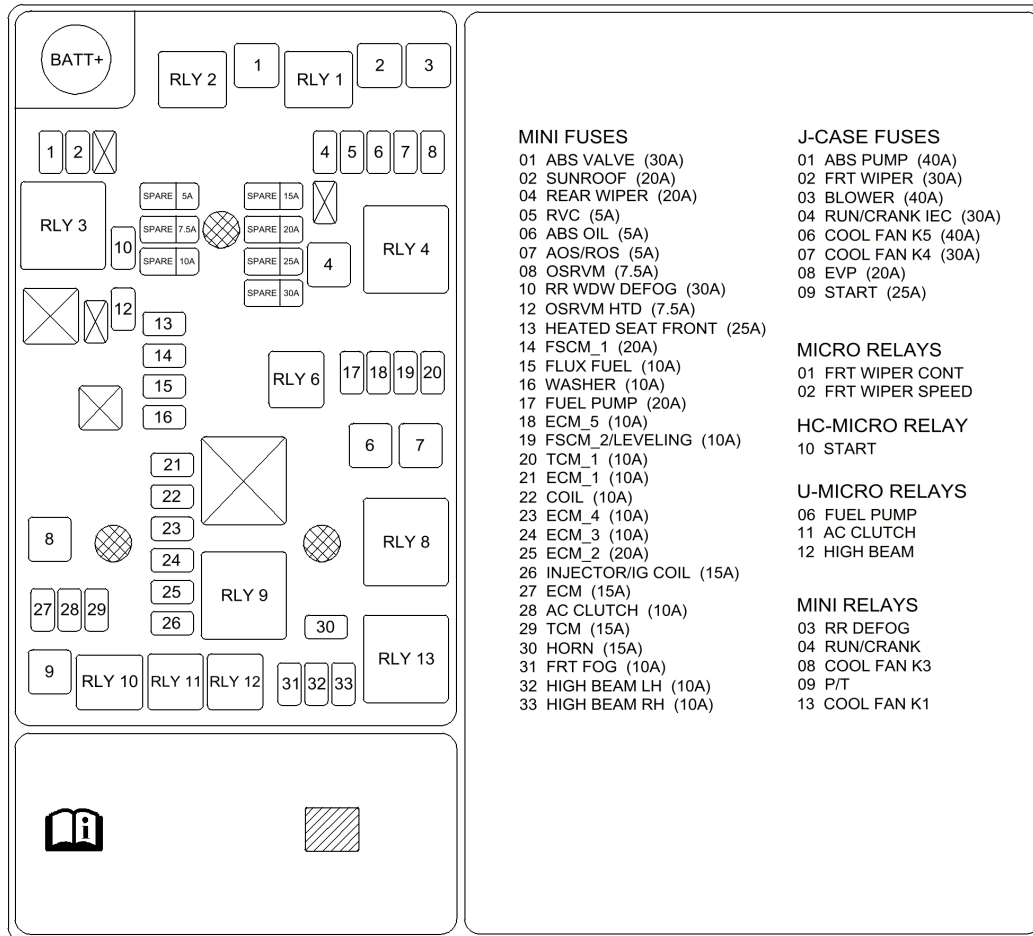


Fig. 2: X50A Fuse Block - Fuse And Relay Underhood Label (LUW)
Courtesy of GENERAL MOTORS COMPANY

X50A FUSE BLOCK - UNDERHOOD LABEL (LWE)

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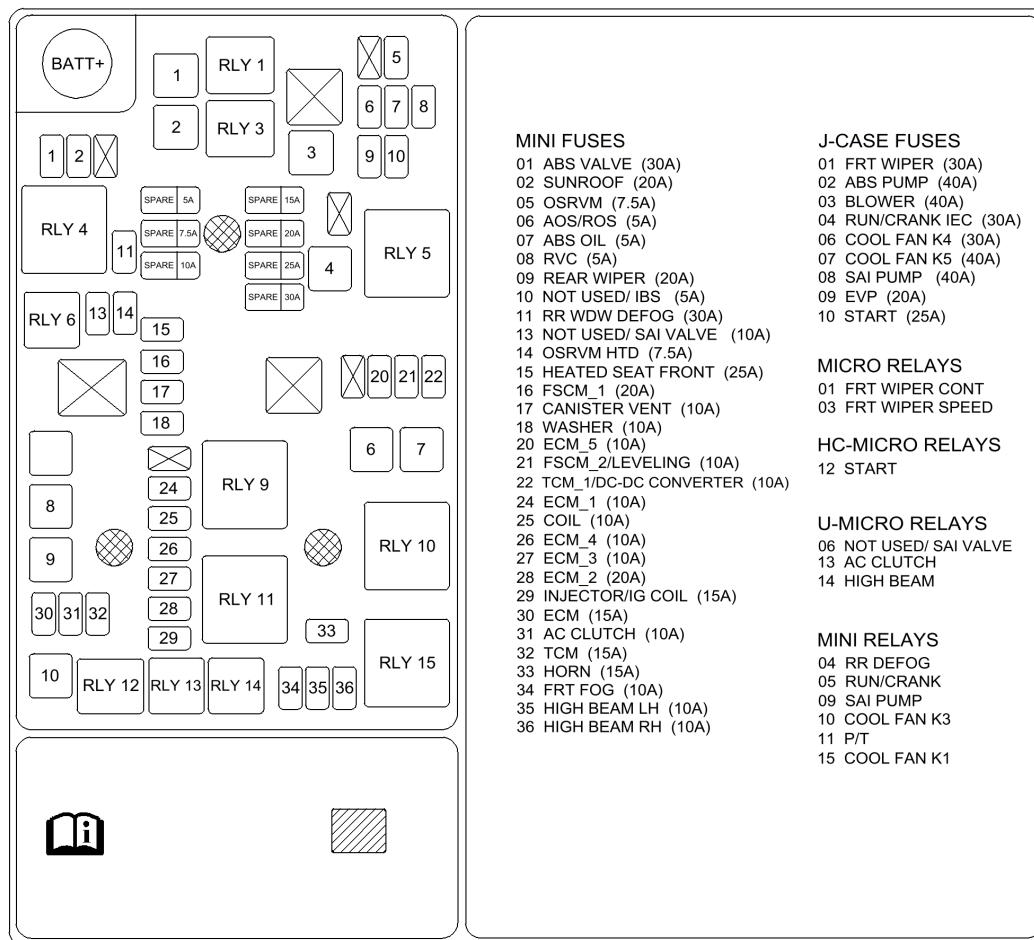


Fig. 3: X50A Fuse Block - Fuse And Relay Underhood Label (LWE)
Courtesy of GENERAL MOTORS COMPANY

X50A FUSE BLOCK - UNDERHOOD, TOP VIEW (LUV OR LUW)

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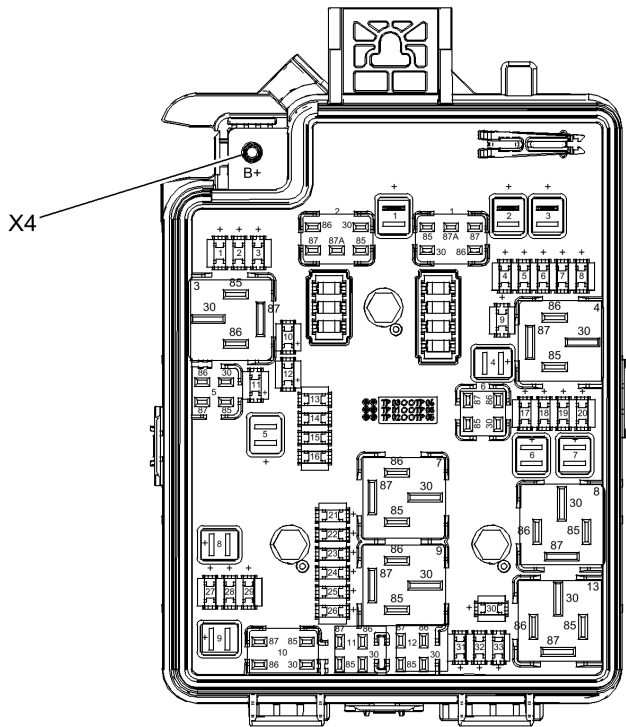


Fig. 4: X50A Fuse Block - Underhood, Top View (LUV or LUW)
Courtesy of GENERAL MOTORS COMPANY

X50A Fuse Block - Underhood, Top View (LUV or LUW)

No.	Device Label Name	Device Assigned Name	Rating	Description
Mini Fuses				
01	ABS VALVE	F1UA	30 A	K17 Electronic Brake Control Module
02	SUNROOF	F2UA	20 A	K61 Sunroof Control Module (CF5)
03	NOT USED	-	-	Not Used
04	REAR WIPER	F4UA	20 A	KR7 Rear Wiper Relay, M45 Rear Wiper Motor (Hatchback)
05	RVC	F5UA	5 A	K9 Body Control Module
06	ABS OIL	F6UA	5 A	X90 Assembly Plant ABS Data Connector (J93)
07	AOS/ROS	F7UA	5 A	K85 Passenger Presence Module
08	OSRVM	F8UA	7.5 A	S52 Outside Rearview Mirror Switch (DG6)
09	NOT USED	-	-	Not Used
10	RR WDW DEFOG	F10UA	30 A	E18 Rear Defogger Grid
11	NOT USED	-	-	Not Used
12	OSRVM HTD	F12UA	7.5 A	A9A Outside Rearview Mirror - Driver (DG6), A9B Outside Rearview

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				Mirror - Passenger (DG6)
13	HEATED SEAT FRONT	F13UA	25 A	K29 Seat Heating Control Module (KA1)
14	FSCM_1	F14UA	20 A	K27 Fuel Pump Control Module
15	FLEX FUEL	F15UA	10 A	Q13 Evaporative Emission Vent Solenoid Valve
16	WASHER	F16UA	10 A	KR6 Rear Window Washer Pump Relay, KR11 Windshield Washer Pump Relay
17	FUEL PUMP	F17UA	20 A	KR23A Fuel Pump Relay
18	ECM_5	F18UA	10 A	K20 Engine Control Module
19	FSCM_2/LEVELING	F19UA	10 A	K27 Fuel Pump Control Module
20	TCM_1	F20UA	10 A	B19C Brake Booster Vacuum Switch, Q8 Control Solenoid Valve Assembly (MH8 or MH9), B87 Rearview Camera
21	ECM_1	F21UA	10 A	Q12 Evaporative Emission Purge Solenoid Valve, Q22 Intake Manifold Tuning Solenoid Valve (LUW), Q40 Turbocharger Bypass Solenoid Valve (LUV), Q42 Turbocharger Wastegate Solenoid Valve
22	COIL	F22UA	10 A	KR20C Cooling Fan Low Speed Relay, KR20D Cooling Fan High Speed Relay (LUW), KR20E Cooling Fan Speed Control Relay (LUV), KR20L Cooling Fan Speed Control 2 Relay (LUV), KR20P Cooling Fan Medium Speed Relay (LUV), KR29 A/C Compressor Clutch Relay
23	ECM_4	F23UA	10 A	B75C Multifunction Intake Air Sensor, E41 Engine Coolant Thermostat Heater
24	ECM_3	F24UA	10 A	B52A Heated Oxygen Sensor 1, B52B Heated Oxygen Sensor 2
25	ECM_2	F25UA	20 A	K20 Engine Control Module
26	INJECTOR/IG COIL	F26UA	15 A	K35 Ignition Coil Module, Q17A Fuel Injector 1, Q17B Fuel Injector 2, Q17C Fuel Injector 3, Q17D Fuel Injector 4
27	ECM	F27UA	15 A	K20 Engine Control Module
28	AC CLUTCH	F28UA	10 A	KR29 A/C Compressor Clutch Relay
29	TCM	F29UA	15 A	Q8 Control Solenoid Valve Assembly (MH8 or MH9)

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30	HORN	F30UA	15 A	P12 Horn
31	FRT FOG	F31UA	10 A	E29LF Fog Lamp - Left Front (T3U), E29RF Fog Lamp - Right Front (T3U)
32	HIGH BEAM LH	F32UA	10 A	E13L Headlamp - Left / E4E Headlamp - Left High Beam
33	HIGH BEAM RH	F33UA	10 A	E13R Headlamp - Right / E4F Headlamp - Right High Beam

J-Case Fuses

01	ABS PUMP	F1UB	40 A	K17 Electronic Brake Control Module
02	FRT WIPER	F2UB	30 A	KR12B Windshield Wiper Relay
03	BLOWER	F3UB	40 A	KR32E Blower Motor Relay
04	RUN/CRANK IEC	F4UB	30 A	F27DA, F28DA, F30DA and F34DA Fuses
05	NOT USED	-	-	Not Used
06	COOL FAN K5	F6UB	40 A (LUW) 60 A (LUV)	KR20D Cooling Fan High Speed Relay
07	COOL FAN K4	F7UB	30 A (LUW) 40 A (LUV)	KR20C Cooling Fan Low Speed Relay, KR20P Cooling Fan Medium Speed Relay
08	EVP	F8UB	20 A	M9 Brake Booster Pump Motor (LUV or MH9)
09	START	F9UB	25 A	KR27 Starter Relay

Micro Relays

01	FRT WIPER CONT	KR12B Windshield Wiper Relay	-	KR12C Windshield Wiper Speed Control Relay, M75 Windshield Wiper Motor
02	FRT WIPER SPEED	KR12C Windshield Wiper Speed Control Relay	-	M75 Windshield Wiper Motor

HC-Micro Relays

10	START	KR27 Starter Relay	-	M64 Starter Motor
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U-Micro Relays

06	FUEL PUMP	KR23A Fuel Pump Relay	-	KR23A: NotUsed
11	AC CLUTCH	KR29 A/C Compressor Clutch Relay	-	Q2 A/C Compressor Clutch
		KR48		

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12	HIGH BEAM	Headlamp High Beam Relay	-	F32UA and F33UA Fuses
MINI Relays				
03	RR DEFOG	KR5 Rear Defogger Relay	-	F10UA Fuse
04	RUN/CRANK	KR73 Ignition Main Relay	-	F4UB, F17UA, F18UA, F19UA and F20UA Fuses
07	COOL FAN K2	KR20P Cooling Fan Medium Speed Relay	-	G10 Cooling Fan Motor
08	COOL FAN K3	KR20D Cooling Fan High Speed Relay	-	G10 Cooling Fan Motor
09	P/T	KR75 Engine Controls Ignition Relay	-	F21UA, F22UA, F23UA, F24UA, F25UA and F26UA Fuses
13	COOL FAN K1	KR20C Cooling Fan Low Speed Relay	-	G10 Cooling Fan Motor

NOTE:

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

-	-	KR3 Horn Relay	-	F30UA Fuse
-	-	KR6 Rear Window Washer Pump Relay	-	G24 Windshield Washer Pump
-	-	KR7 Rear Wiper Relay	-	M45 Rear Wiper Motor
-	-	KR11 Windshield Washer Pump Relay	-	G24 Windshield Washer Pump
-	-	KR46 Front Fog Lamp Relay	-	F31UA Fuse
-	-	KR97 Door Lock Relay	-	A23P Door Latch Assembly - Passenger, A23LR Door Latch Assembly - Left Rear, A23RR Door Latch Assembly - Right Rear

NOTE:

Items listed below are diagnostic test points for PCB relays

TP01	-	TP01	-	Not Used
TP02	-	TP02	-	Not Used

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TP03	-	TP03	-	Not Used
TP04	-	TP04	-	KR7 Rear Wiper Relay
TP05	-	TP05	-	KR11 Windshield Washer Pump Relay
TP06	-	TP06	-	KR6 Rear Window Washer Pump Relay

X50A FUSE BLOCK - UNDERHOOD, TOP VIEW (LWE)

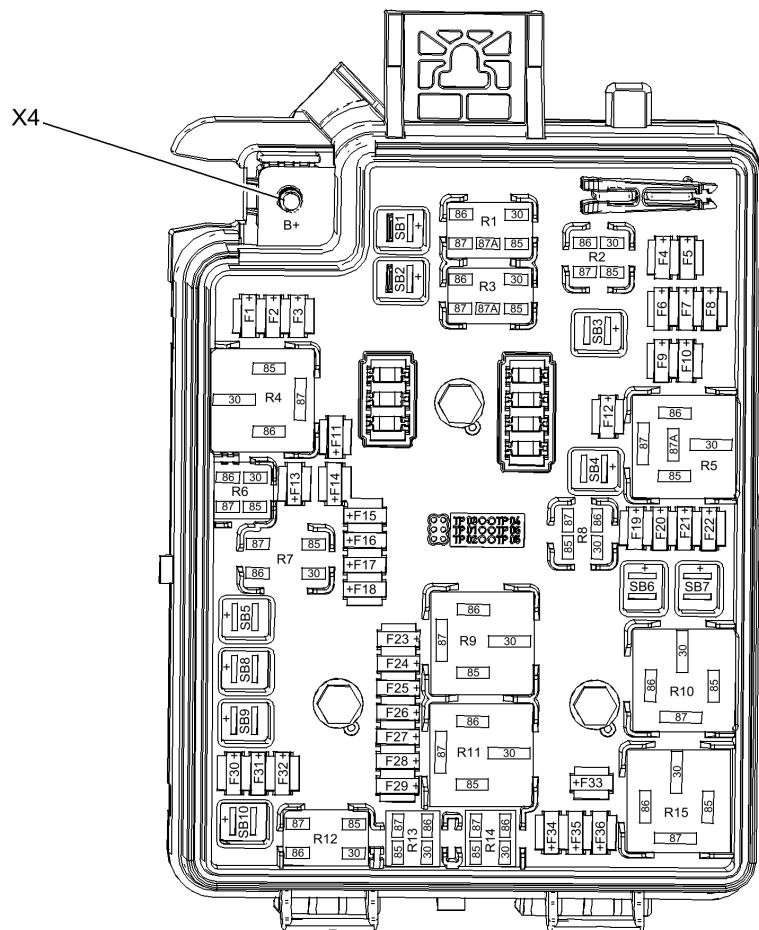


Fig. 5: X50A Fuse Block - Underhood, Top View (LWE)

Courtesy of GENERAL MOTORS COMPANY

X50A Fuse Block - Underhood, Top View (LWE)

No.	Device Label Name	Device Assigned Name	Rating	Description
Mini Fuses				

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01	ABS VALVE	F1UA	30 A	K17 Electronic Brake Control Module
02	SUNROOF	F2UA	20 A	K61 Sunroof Control Module (CF5)
03	NOT USED	-	-	Not Used
04	NOT USED	-	-	Not Used
05	OSRVM	F5UA	7.5 A	S52 Outside Rearview Mirror Switch (DG6)
06	AOS/ROS	F6UA	5 A	K85 Passenger Presence Module
07	ABS OIL	F7UA	5 A	X90 Assembly Plant ABS Data Connector (J93)
08	RVC	F8UA	5 A	K9 Body Control Module
09	REAR WIPER	F9UA	20 A	KR7 Rear Wiper Relay, M45 Rear Wiper Motor (Hatchback)
10	NOT USED/ IBS	F10UA	5 A	Not Used
11	RR WDW DEFOG	F11UA	30 A	E18 Rear Defogger Grid
12	NOT USED	-	-	Not Used
13	NOT USED/ SAI VALVE	F13UA	10 A	Q29 Secondary Air Injection Solenoid Valve
14	OSRVM HTD	F14UA	7.5 A	A9A Outside Rearview Mirror - Driver (DG6), A9B Outside Rearview Mirror - Passenger (DG6)
15	HEATED SEAT FRONT	F15UA	25 A	K29 Seat Heating Control Module (KA1)
16	FSCM_1	F16UA	20 A	K27 Fuel Pump Control Module
17	CANISTER VENT	F17UA	10 A	Q13 Evaporative Emission Vent Solenoid Valve
18	WASHER	F18UA	10 A	KR6 Rear Window Washer Pump Relay, KR11 Windshield Washer Pump Relay
19	NOT USED	-	-	Not Used
20	ECM_5	F20UA	10 A	K20 Engine Control Module
21	FSCM_2/LEVELING	F21UA	10 A	K27 Fuel Pump Control Module
22	TCM_1 /DC-DC CONVERTER	F22UA	10 A	B19C Brake Booster Vacuum Switch, Q8 Control Solenoid Valve Assembly, B87 Rearview Camera
23	NOT USED	-	-	Not Used
24	ECM_1	F24UA	10 A	Q12 Evaporative Emission Purge Solenoid Valve and Q22 Intake Manifold Tuning Solenoid Valve
25	COIL	F25UA	10 A	KR20C Cooling Fan Low Speed Relay, KR20D Cooling Fan High Speed Relay, KR25 Secondary Air Injection Pump Relay, KR26 Secondary Air Injection Solenoid

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				Valve Relay, KR29 A/C Compressor Clutch Relay and KR31 Coolant Pump Relay - Auxiliary
26	ECM_4	F26UA	10 A	B75C Multifunction Intake Air Sensor, E41 Engine Coolant Thermostat Heater
27	ECM_3	F27UA	10 A	B52A Heated Oxygen Sensor 1, B52B Heated Oxygen Sensor 2
28	ECM_2	F28UA	20 A	K20 Engine Control Module
29	INJECTOR/IG COIL	F29UA	15 A	K35 Ignition Coil Module, Q17A Fuel Injector 1, Q17B Fuel Injector 2, Q17C Fuel Injector 3, Q17D Fuel Injector 4
30	ECM	F30UA	15 A	K20 Engine Control Module
31	AC CLUTCH	F31UA	10 A	KR29 A/C Compressor Clutch Relay
32	TCM	F32UA	15 A	Q8 Control Solenoid Valve Assembly (MH8 or MH9)
33	HORN	F33UA	15 A	P12 Horn
34	FRT FOG	F34UA	10 A	E29LF Fog Lamp - Left Front (T3U), E29RF Fog Lamp - Right Front (T3U)
35	HIGH BEAM LH	F35UA	10 A	E13 Headlamp - Left / E4E Headlamp - Left High Beam
36	HIGH BEAM RH	F36UA	10 A	E13R Headlamp - Right / E4F Headlamp - Right High Beam

J-Case Fuses

01	FRT WIPER	F1UB	30 A	KR12B Windshield Wiper Relay
02	ABS PUMP	F2UB	40 A	K17 Electronic Brake Control Module
03	BLOWER	F3UB	40 A	KR32E Blower Motor Relay
04	RUN/CRANK IEC	F4UB	30 A	F27DA, F28DA, F30DA and F34DA Fuses
05	NOT USED	-	-	Not Used
06	COOL FAN K4	F6UB	30 A	KR20C Cooling Fan Low Speed Relay
07	COOL FAN K5	F7UB	40 A	KR20D Cooling Fan High Speed Relay
08	SAI PUMP	F8UB	40 A	KR25 Secondary Air Injection Pump Relay
09	EVP	F9UB	20 A	M9 Brake Booster Pump Motor (MH9)
10	START	F10UB	25 A	KR27 Starter Relay

Micro Relays

01	FRT WIPER CONT	KR12B Windshield	-	KR12C Windshield Wiper Speed Control Relay, M75 Windshield
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		Wiper Relay		Wiper Motor
03	FRT WIPER SPEED	KR12C Windshield Wiper Speed Control Relay	-	M75 Windshield Wiper Motor
HC-Micro Relays				
12	START	KR27 Starter Relay	-	M64 Starter Motor
U-Micro Relays				
06	NOT USED/ SAI VALVE	KR26 Secondary Air Injection Solenoid Valve Relay	-	F13UA Fuse
13	AC CLUTCH	KR29 A/C Compressor Clutch Relay	-	Q2 A/C Compressor Clutch
14	HIGH BEAM	KR48 Headlamp High Beam Relay	-	F35UA and F36UA Fuses
MINI Relays				
04	RR DEFOG	KR5 Rear Defogger Relay	-	F11UA and F14UA Fuses
05	RUN/CRANK	KR73 Ignition Main Relay	-	F4UB, F19UA, F20UA, F21UA and F22UA Fuses
09	SAI PUMP	KR25 Secondary Air Injection Pump Relay	-	G21 Secondary Air Injection Pump
10	COOL FAN K3	KR20D Cooling Fan High Speed Relay	-	G10 Cooling Fan Motor
11	P/T	KR75 Engine Controls Ignition Relay	-	F24UA, F25UA, F26UA, F27UA, F28UA and F29UA Fuses
15	COOL FAN K1	KR20C Cooling Fan Low Speed Relay	-	G10 Cooling Fan Motor
NOTE: Relays listed below are non-serviceable Printed Circuit Board (PCB) relays and are internal to the block.				
-	-	KR3 Horn Relay	-	F33UA Fuse
		KR6 Rear		

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-	-	Window Washer Pump Relay	-	G24 Windshield Washer Pump
-	-	KR7 Rear Wiper Relay	-	M45 Rear Wiper Motor
-	-	KR11 Windshield Washer Pump Relay	-	G24 Windshield Washer Pump
-	-	KR46 Front Fog Lamp Relay	-	F34UA Fuse
-	-	KR97 Door Lock Relay	-	A23P Door Latch Assembly - Passenger, A23LR Door Latch Assembly - Left Rear, A23RR Door Latch Assembly - Right Rear

NOTE:**Items listed below are diagnostic test points for PCB relays**

TP01	-	TP01	-	Not Used
TP02	-	TP02	-	Not Used
TP03	-	TP03	-	Not Used
TP04	-	TP04	-	KR7 Rear Wiper Relay
TP05	-	TP05	-	KR11 Windshield Washer Pump Relay
TP06	-	TP06	-	KR6 Rear Window Washer Pump Relay

X50A FUSE BLOCK - UNDERHOOD, BOTTOM VIEW

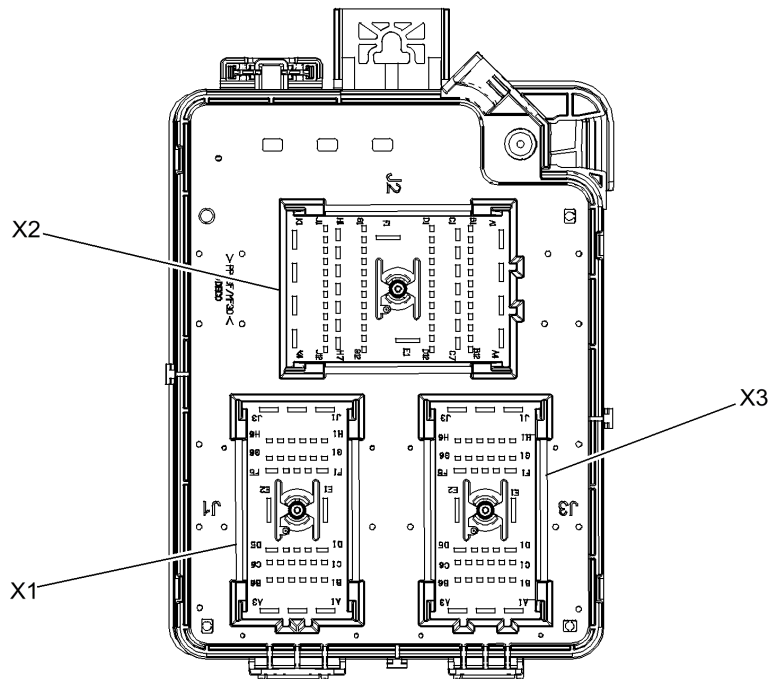
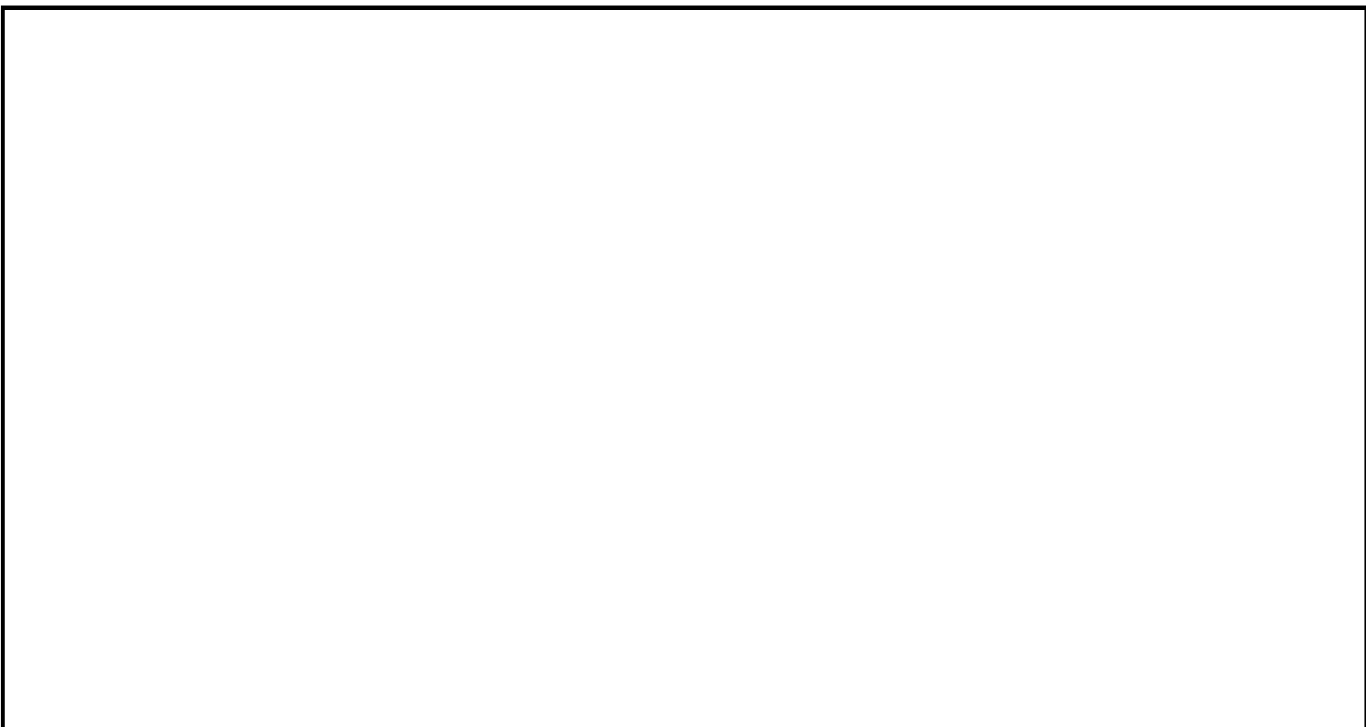


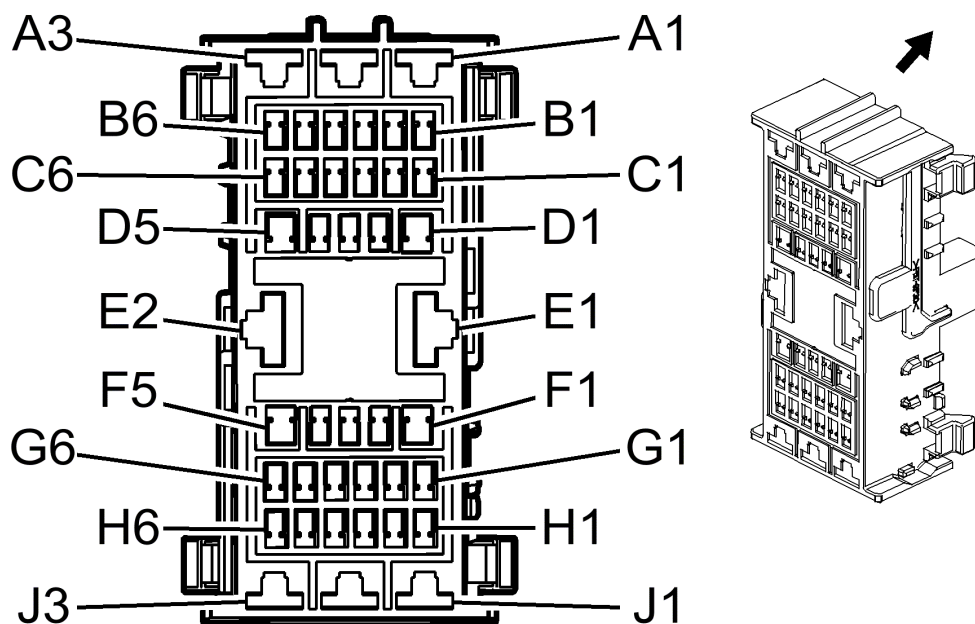
Fig. 6: X50A Fuse Block -- Underhood, Bottom View
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X50A FUSE BLOCK - UNDERHOOD X1



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Connector Part Information

- Harness Type: Forward Lamp
- OEM Connector: 96947011
- Service Connector: 13587779
- Description: 42 F 150/280 GT, 630/800 Metri Pack Series L-GY

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13582226	J-35616-42 (RD)	J-38125-11A	12084590	3	Not Available	Not Available
II	13582225	J-35616-42 (RD)	J-38125-11A	12084590	3	Not Available	Not Available
III	Not Available	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
IV	12451912	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
V	12451913	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
VI	12451914	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

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X50A Fuse Block - Underhood X1

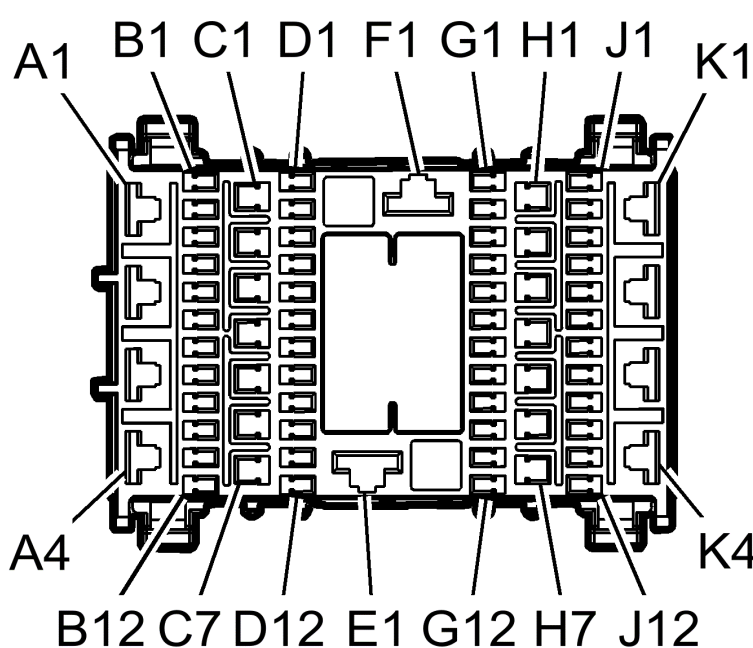
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1-A2	-	-	-	Not Occupied	-	-
A3	3	WH/L-BU	409	Cooling Fan Motor Supply Voltage (1)	I	-
B1	-	-	-	Not Occupied	-	-
B2	0.5	BN/VT	2234	Front Fog Lamp Supply Voltage	II	T3U
B3	1	WH	711	Left Headlamp High Beam Supply Voltage	II	-
B4	1	WH	311	Right Headlamp High Beam Supply Voltage	II	-
B5	0.5	VT/L-BU	5294	Powertrain Main Relay Fused Supply (5)	II	-
B6	0.5 0.5	VT/L-BU BN/YE	5294 473	Powertrain Main Relay Fused Supply (5) High Speed Cooling Fan Relay Control	II	L UW/LWE LUV
C1	-	-	-	Not Occupied	-	-
C2	0.5	VT/L-BU	5294	Powertrain Main Relay Fused Supply (5)	II	LUV
C3-D1	-	-	-	Not Occupied	-	-
D2	0.5	L-BU/WH	1314	Left Front Turn Signal Lamp Supply Voltage	II	-
D3	0.5	GY/BN	309	Right Park Lamp Supply Voltage	II	-
D4	0.75	BN/GY	29	Horn Control	II	-
D5-E1	-	-	-	Not Occupied	-	-
E2	5 4	YE GY	5358 532	Cooling Fan Motor Supply Voltage (3) Cooling Fan Motor Supply Voltage (2)	III	LUV L UW/LWE
F1-F3	-	-	-	Not Occupied	-	-
F4	0.5	L-GN/VT	335	Low Speed Cooling Fan Relay Control	II	LUV
F5-G2	-	-	-	Not Occupied	-	-
G3	0.5	GY/VT	228	Windshield Washer Pump Control	II	-
G4	1	YE	312	Right Headlamp Low Beam Supply Voltage	II	-
G5	0.75	L-GN/VT	1315	Right Front Turn Signal Lamp Supply Voltage	II	-
G6	0.75	VT/GY	709	Left Park Lamp Supply Voltage	II	-
H1-H2	-	-	-	Not Occupied	-	-

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H3	0.5	L-BU/VT	392	Rear Window Washer Pump Control	II II	-
H4	1	YE	712	Left Headlamp Low Beam Supply Voltage	II II	-
H5-H6	-	-	-	Not Occupied	-	-
J1	4	GY	532	Cooling Fan Motor Supply Voltage (2)	IV	LUV
J2-J3	-	-	-	Not Occupied	-	-

X50A FUSE BLOCK - UNDERHOOD X2



Connector Part Information

- Harness Type: Body
- OEM Connector: 96947009
- Service Connector: 13587777
- Description: 72-Way F GT 150/280 Metri-Pack 630/800 Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
		J-35616-42	J-38125-			Not	Not

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I	13582225	(RD)	11A	12084590	3	Available	Available
II	Not Available	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
III	12451915	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
IV	12451916	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
V	12451912	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
VI	13582226	J-35616-42 (RD)	J-38125-11A	12084590	3	Not Available	Not Available

X50A Fuse Block - Underhood X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	-	-	-	Not Occupied	-	-
A2	2.5	RD/WH	140	Battery Positive Voltage	I	-
A3	2.5	BN/VT	293	Rear Defog Element Supply Voltage	I	-
A4	-	-	-	Not Occupied	-	-
B1	0.5	BN/VT	193	Rear Defog Relay Control	II II	-
B2	0.5	BN/WH	419	Check Engine Indicator Control	II II	-
B3	0.5	L-GN/GY	465	Fuel Pump Primary Relay Control	II II	-
B4	0.75	GY	295	Door Lock Actuator Lock Control	II II	-
B5	0.5	WH	1310	EVAP Canister Vent Solenoid Control	II II	-
B6	0.5	WH/L-BU	3266	Child Security Lock Motor Unlock Control	II II	-
B7	0.5	GY	295	Door Lock Actuator Lock Control	II II	-
B8-B9	-	-	-	Not Occupied	-	-
B10	0.5	GY/VT	267	Mirror Heater Element Voltage	II II	DG6
B11	0.5	GY/VT	267	Mirror Heater Element Voltage	II II	DG6
B12	-	-	-	Not Occupied	-	-
C1	2	WH	92	Windshield Wiper Motor High Speed Control	I III	-
C2	-	-	-	Not Occupied	-	-

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C3	1.5	RD/WH	640	Battery Positive Voltage	I I	-
C4	-	-	-	Not Occupied	-	-
C5	2.5	BK	450	Ground	I III	-
C6	1.5	RD/BN	1140	Battery Positive Voltage	I	-
C7	1.5	RD/L-BU	540	Battery Positive Voltage	I	KA1
D1	-	-	-	Not Occupied	-	-
D2	0.35	WH/VT	860	Front Windshield Wiper Switch High Signal	II II	-
D3	0.35	GY	91	Windshield Wiper Motor Relay Coil Supply Voltage	II II	-
D4	-	-	-	Not Occupied	-	-
D5	0.5	VT/YE	3267	Child Security Lock Relay Control	II II	-
D6	0.35	YE	5420	Rear Wiper Motor Relay Coil Control	II II	Hatchback
D7-D9	-	-	-	Not Occupied	-	-
D10	0.5	RD/L-BU	1240	Battery Positive Voltage	II II	-
D11	0.35	VT/YE	5985	Accessory Wakeup Serial Data	II II	-
D12-E1	-	-	-	Not Occupied	-	-
F1	4	RD/YE	240	Battery Positive Voltage	IV	-
G1	-	-	-	Not Occupied	-	-
G2	0.35	L-GN/WH	2270	Rear Window Washer Relay Control	II II	Hatchback
G3-G4	-	-	-	Not Occupied	-	-
G5	0.75	L-GN/VT	1315	Right Front Turn Signal Lamp Supply Voltage	II II	-
G6	0.75	L-BU/WH	1314	Left Front Turn Signal Lamp Supply Voltage	II II	-
G7	0.5	BN/WH	1317	Fog Lamp Relay Control	II II	-
G8	0.5	WH/L-BU	6311	Cruise/ETC/TCC Brake Signal	II II	-
G9	0.35	BN/GY	2268	Windshield Washer Relay Control	II II	-
G10	0.35	BN/WH	28	Horn Relay Control	II II	-
G11	0.35	BN/VT	1969	Headlamp High Beam Relay Control	II II	-
G12	-	-	-	Not Occupied	-	-

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2014 ELECTRICAL Wiring Systems and Power Management - Component Locator - Electrical Center Identification Views - Sonic

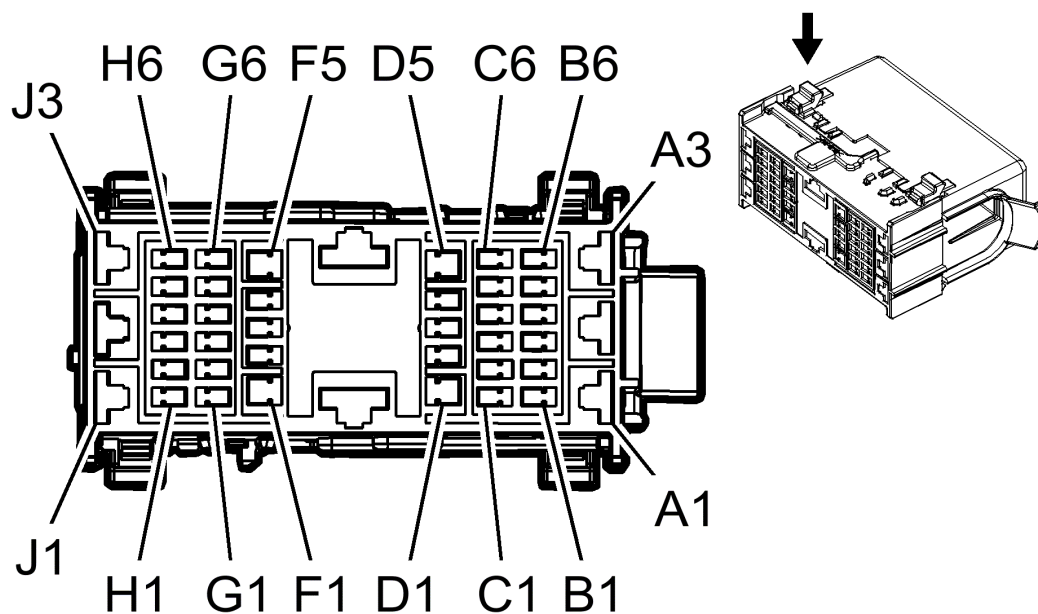
H1	2	BK	450	Ground	III V	-
H2	2	YE/BN	95	Windshield Wiper Motor Low Speed Control	III V	-
H3	1	L-BU	393	Rear Window Wiper Motor Control	III V	Hatchback
H4	1	GY/VT	5780	Windshield Wiper Motor Park Switch Fused Signal	III V	Hatchback
H5	0.35	BK	450	Ground	III V	Hatchback
H6-H7	-	-	-	Not Occupied	-	-
J1	0.5	RD/WH	1040	Battery Positive Voltage	II II	-
J2	0.35	VT/L-GN	439	Run/Crank Ignition 1 Voltage	II II	-
J3	-	-	-	Not Occupied	-	-
J4	0.35	RD/BN	440	Battery Positive Voltage	II II	-
J5	0.5	GY/BN	309	Right Park Lamp Supply Voltage	II II	-
J6	0.5	VT/GY	709	Left Park Lamp Supply Voltage	II II	-
J7	-	-	-	Not Occupied	-	-
J8	0.35	L-GN/VT	5199	Run/Crank Relay Coil Control	II II	-
J9	0.75	YE	312	Right Headlamp Low Beam Supply Voltage	II II	-
J10	0.75	YE	712	Left Headlamp Low Beam Supply Voltage	II II	-
J11	-	-	-	Not Occupied	-	-
J12	0.5	VT/BK	339	Run/Crank Ignition 1 Voltage	II II	-
K1	4	RD/YE	740	Battery Positive Voltage	VI	-
K2-K3	-	-	-	Not Occupied	-	-
K4	2.5	VT/WH	239	Run/Crank Ignition 1 Voltage	I	-

X50A FUSE BLOCK - UNDERHOOD X3



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2014 ELECTRICAL Wiring Systems and Power Management - Component Locator - Electrical Center Identification
Views - Sonic



Connector Part Information

- Harness Type: Engine
- OEM Connector: 96947010
- Service Connector: 13587778
- Description: 42-Way F GT 150/280 Metri-Pack 630/800 Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13582223	J-35616-42 (RD)	J-38125-11A	12015870	2	A	D
II	13327109	J-35616-2A (GY)	J-38125-553	12191812	19	E	C
III	13575735	J-35616-2A (GY)	J-38125-553	12191812	19	C	A
IV	13575479	J-35616-2A (GY)	J-38125-553	12191812	19	C	A
V	13327130	J-35616-4A (PU)	J-38125-553	15304711	8	2	A
VI	13575465	J-35616-44 (YE)	J-38125-558	12065915	5	A	D

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VII	13327105	J-35616-44 (YE)	J-38125-558	12110127	19	F	G
VIII	13575503	J-35616-4A (PU)	J-38125-553	15304711	8	E	A

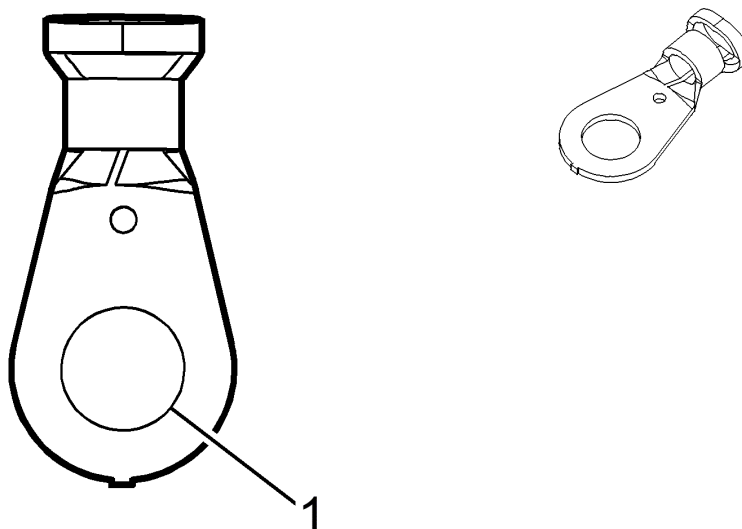
X50A Fuse Block - Underhood X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	-	-	-	Not Occupied	-	-
A2	1.5	YE	6	Starter Solenoid Crank Voltage	I	-
A3-B1	-	-	-	Not Occupied	-	-
B2	0.5	YE	447	Starter Relay Coil Control	II	-
B3	0.5	BK	1750	Ground	II	-
B4	0.5	WH/GY	459	A/C Compressor Clutch Relay Control	II	C60
B5	0.5	BN/L-GN	59	A/C Compressor Clutch Supply Voltage	II	C60
B6	1	VT/L-BU	5290	Powertrain Main Relay Fused Supply (1)	II	-
C1	0.75	RD/WH	140	Battery Positive Voltage	II	-
C2	0.75	RD/VT	340	Battery Positive Voltage	II	MH8/MH9
C3	0.5	L-GN/VT	335	Low Speed Cooling Fan Relay Control	II	L UW/LWE
C4	0.5	BN/YE	473	High Speed Cooling Fan Relay Control	II	-
C5	0.5	VT/L-BU	5294	Powertrain Main Relay Fused Supply (5)	II	LUV
C6	-	-	-	Not Occupied	-	-
D1	0.75	VT/L-BU	5290	Powertrain Main Relay Fused Supply (1)	II	-
D2	0.5	YE	5991	Powertrain Relay Coil Control	II	-
D3	0.5	VT/L-BU	5291	Powertrain Main Relay Fused Supply (2)	II	-
D4	0.5	VT/L-BU	5290	Powertrain Main Relay Fused Supply (1)	II	-
D5	0.75	VT/L-BU	5290	Powertrain Main Relay Fused Supply (1)	II III	-
E1	1.5	RD/WH	2040	Battery Positive Voltage	IV	-
E2	4	BN/YE	78	Air Injection Reaction Pump Supply Voltage	-	LWE
F1-F2	-	-	-	Not Occupied	-	-
	0.5	BN/YE	473	High Speed Cooling Fan Relay Control		LUV

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2014 ELECTRICAL Wiring Systems and Power Management - Component Locator - Electrical Center Identification Views - Sonic

F3	0.5	L-GN/L-BU	436	Air Injection Reaction Pump Relay Coil Control	-	LWE
F4	-	-	-	Not Occupied	-	-
F5	0.5	VT/L-BU	5291	Powertrain Main Relay Fused Supply (2)	III	-
G1	0.5	L-BU/BN	421	Air Injection Reaction Solenoid Relay Coil Control	II	LWE
G2	0.5	BN/WH	419	Check Engine Indicator Control	II	-
G3	0.5	L-GN/GY	465	Fuel Pump Primary Relay Control	II	-
G4	0.5	WH/L-BU	6311	Cruise/ETC/TCC Brake Signal	II	-
G5	0.5	VT/GY	139	Run/Crank Ignition 1 Voltage	II	-
G6-H2	-	-	-	Not Occupied	-	-
H3	0.5	YE/BK	429	Air Injection Reaction Solenoid Control	II	LWE
H4	0.5	WH	1310	EVAP Canister Vent Solenoid Control	II	-
H5	0.5	VT/YE	5985	Accessory Wakeup Serial Data	II	-
H6	0.5	VT/GY	139	Run/Crank Ignition 1 Voltage	II	-
J1-J3	-	-	-	Not Occupied	-	-

X50A FUSE BLOCK - UNDERHOOD X4**Connector Part Information**

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- Harness Type: Positive Battery Cable
- OEM Connector: CBR68-012
- Service Connector: Service by Harness - See Part Catalog
- Description: 1-Way Ring Terminal

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not Available	No Tool Required	No Tool Required

X50A Fuse Block - Underhood X4

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

X50D FUSE BLOCK - BATTERY, TOP VIEW

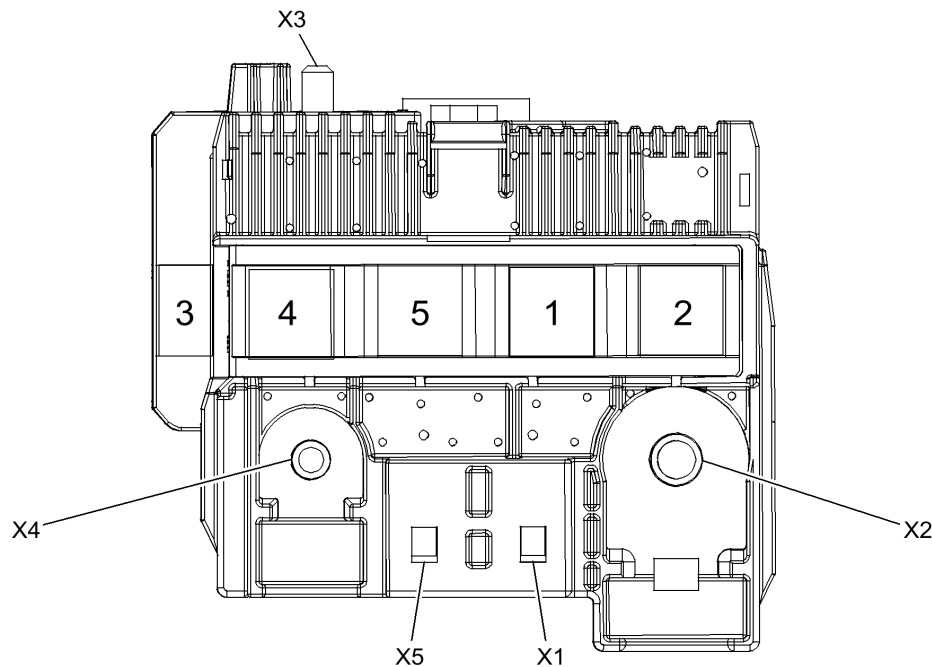


Fig. 7: X50D Fuse Block - Battery (Top)
Courtesy of GENERAL MOTORS COMPANY

X50D Fuse Block - Battery Usage

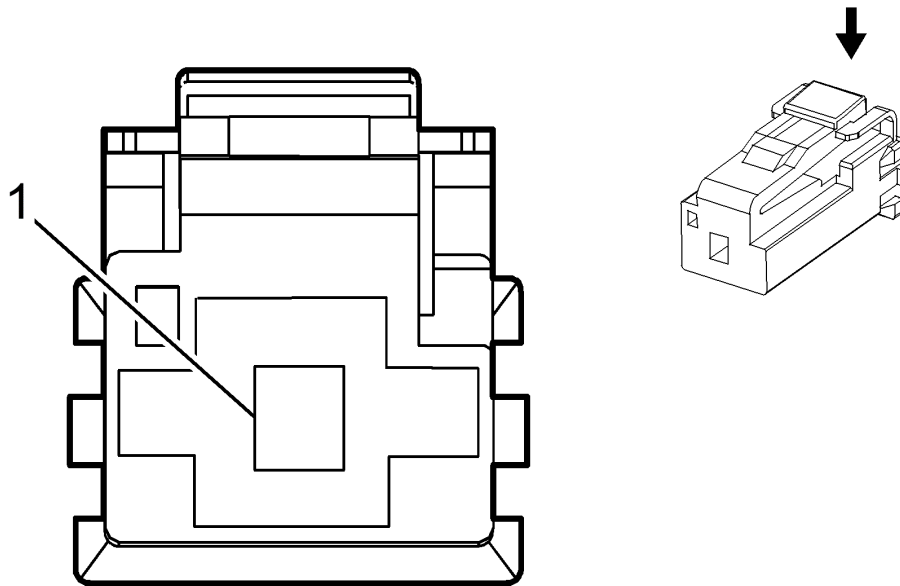
	Device Assigned		
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No.	Device Name	Name	Rating	Description
1	-	F1BA	80A	K43 Power Steering Control Module
2	-	F2BA	400A (-LUV) 430A (LUV)	G13 Generator and M64 Starter Motor
3	-	F3BA	80A (-LUV) 100A (LUV)	X51A Fuse Block - Instrument Panel
4	-	F4BA	150A	X50A Fuse Block - Underhood
5	-	F5BA	80A	Not Used

X50D FUSE BLOCK - BATTERY X1



Connector Part Information

- Harness Type: Body
- OEM Connector: MG613689-5
- Service Connector: SEE NOTE
- Description: 1 F 375 Series BK

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
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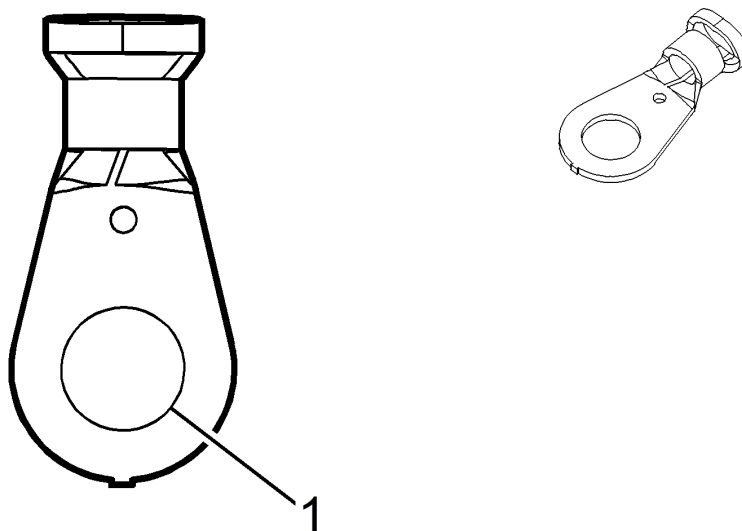
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I	Not Available	J-35616-64B (L-BU)	Not Available	Not Available	Not Available	Not Available	Not Available
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X50D Fuse Block - Battery X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	8	RD/L-GN	40	Battery Positive Voltage	I	-

X50D FUSE BLOCK - BATTERY X2**Connector Part Information**

- Harness Type: Positive Battery Cable
- OEM Connector: CBR68-012
- Service Connector: Service by Harness - See Part Catalog
- Description: 1-Way Ring Terminal

Terminal Part Information

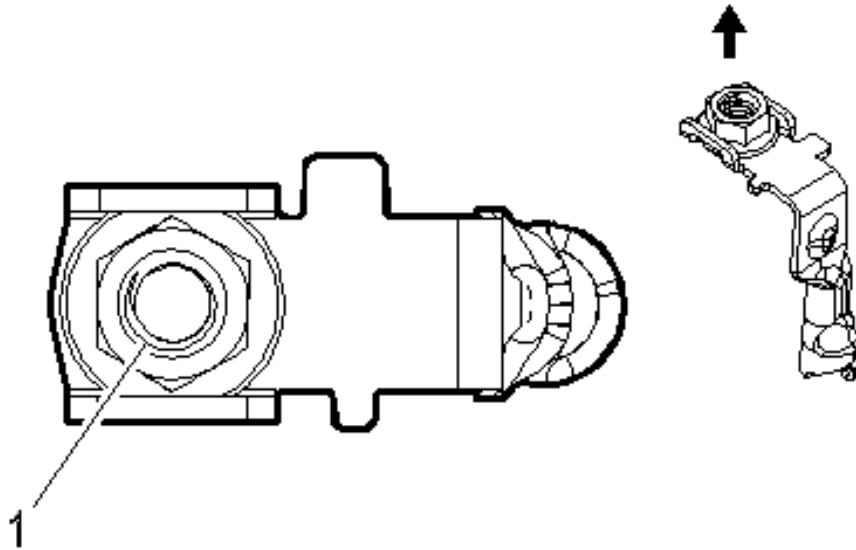
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not Available	No Tool Required	No Tool Required

X50D Fuse Block - Battery X2

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

X50D FUSE BLOCK - BATTERY X3**Connector Part Information**

- Harness Type: Body
- OEM Connector: 13278092
- 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	Core Crimp	Insulation Crimp
I	Not Available	No Tool Required	No Tool Required	Not Available	Not Available	Not Available	Not Available

X50D Fuse Block - Battery X3

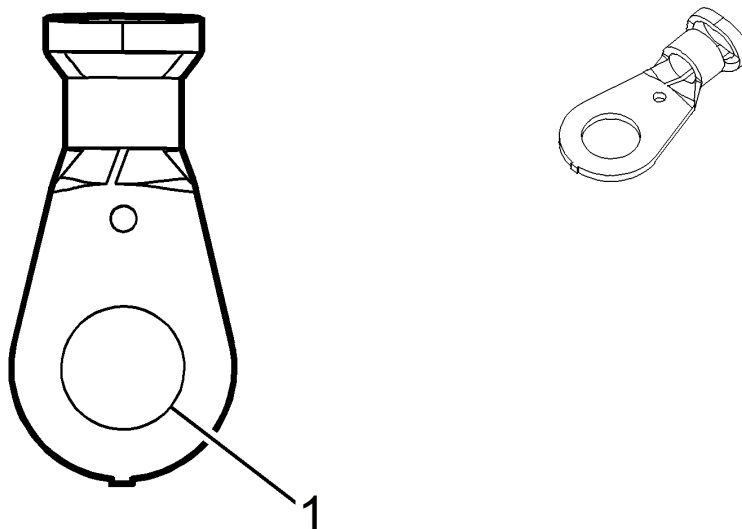
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
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1	10	RD/L-BU	42	Battery Positive Voltage	I	-
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X50D FUSE BLOCK - BATTERY X4



Connector Part Information

- Harness Type: Positive Battery Cable
- OEM Connector: CBR68-012
- Service Connector: Service by Harness - See Part Catalog
- Description: 1-Way Ring Terminal

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not Available	No Tool Required	No Tool Required

X50D Fuse Block - Battery X4

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

X51A FUSE BLOCK - INSTRUMENT PANEL LABEL

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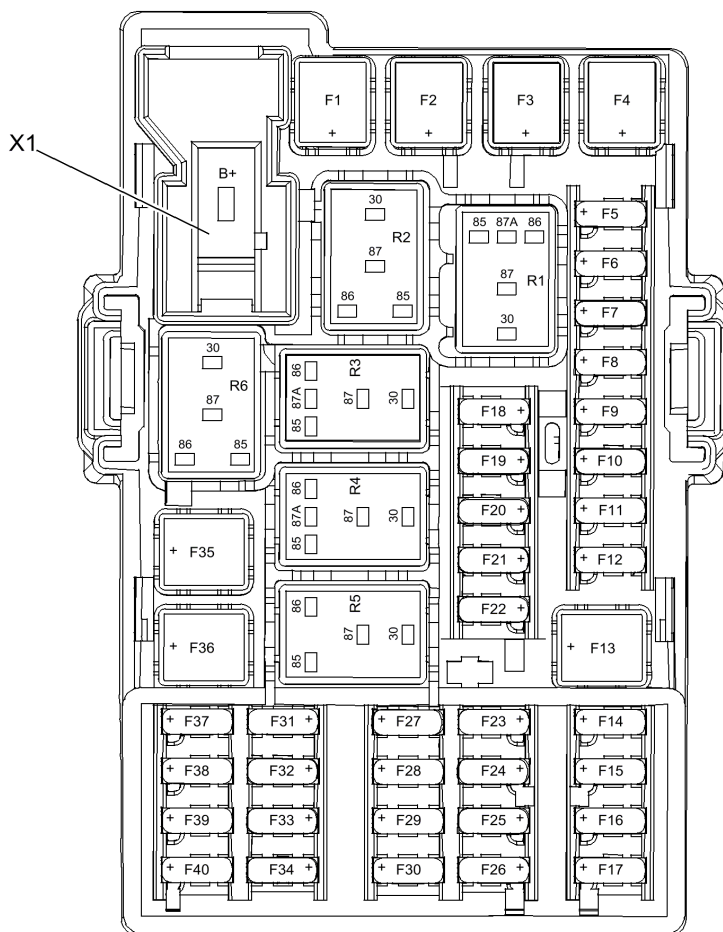


Fig. 9: X51A Fuse Block -- Instrument Panel, Top View
Courtesy of GENERAL MOTORS COMPANY

X51A Fuse Block - Instrument Panel Usage

No.	Device Label Name	Device Assigned Name	Rating	Description
F1	PTC1 Fuse	F1DA	40 A	Not Used
F2	PTC2 Fuse	F2DA	60 A	Not Used
F3	PWR WNDW EXP DRV Fuse	F3DA	20 A	M74D Window Motor - Driver
F4	DCDC CONV Fuse	F4DA	30 A	Not Used
F5	BCM1 Fuse	F5DA	20 A	K9 Body Control Module
F6	BCM2 Fuse	F6DA	20 A	K9 Body Control Module
F7	BCM3 Fuse	F7DA	30 A	K9 Body Control Module
F8	BCM4 Fuse	F8DA	30 A	K9 Body Control Module
F9	BCM5 Fuse	F9DA	25 A	K9 Body Control Module

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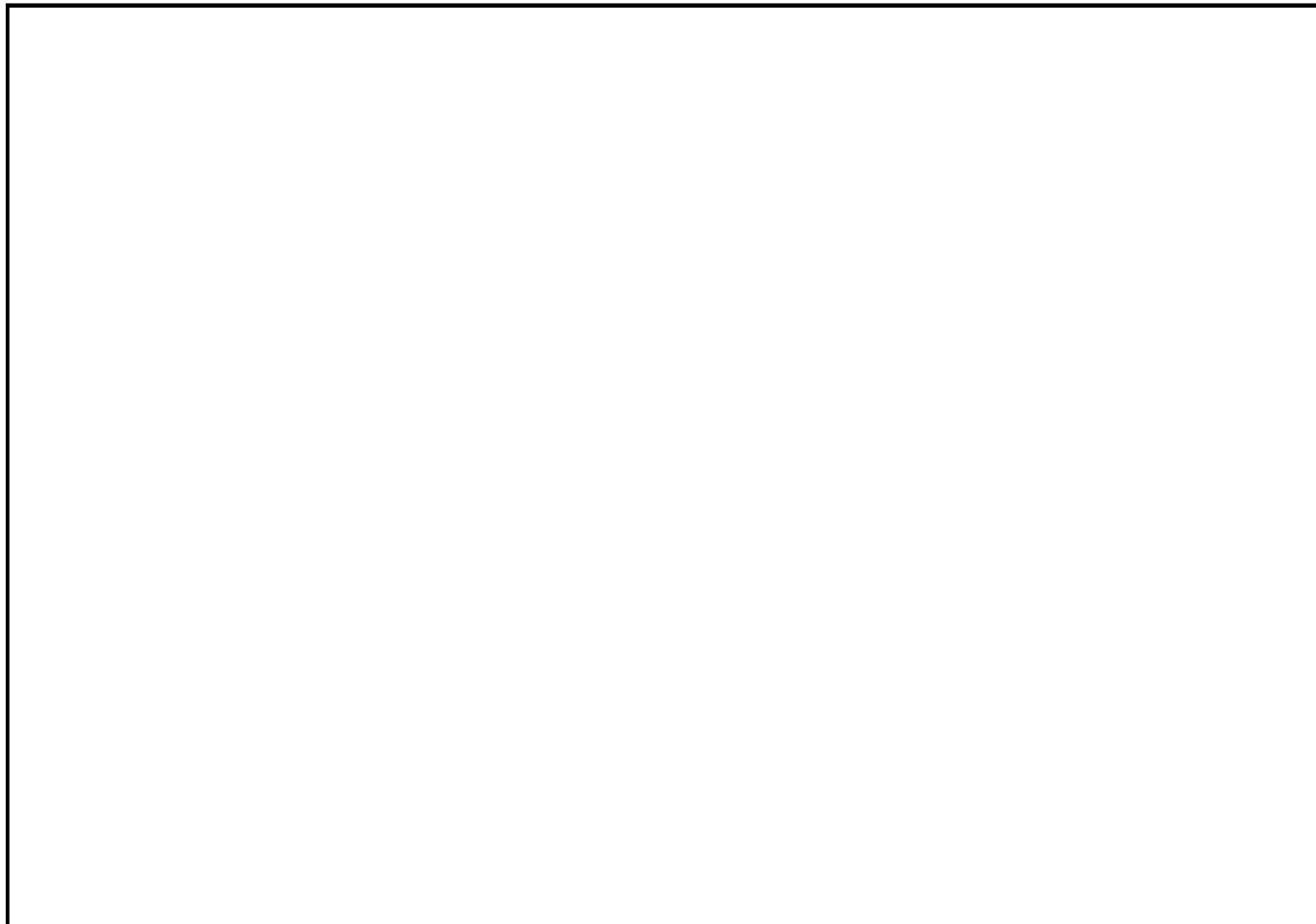
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F10	BCM6 Fuse	F10DA	20 A	K9 Body Control Module
F11	BCM7 Fuse	F11DA	20 A	K9 Body Control Module
F12	BCM8 Fuse	F12DA	30 A	K9 Body Control Module
F13	SPARE Fuse	F13DA	20 A	Not Used
F14	L/GATE Fuse	F14DA	10 A	KR95A Liftgate Release Relay (Hatchback), KR95B Rear Compartment Lid Release Relay (Notchback)
F15	AIRBAG Fuse	F15DA	10 A	K36 Inflatable Restraint Sensing and Diagnostic Module
F16	DLC Fuse	F16DA	15 A	X84 Data Link Connector
F17	DLIS Fuse	F17DA	2 A	S39 Ignition Switch
F18	HVAC Fuse	F18DA	10 A	K33 HVAC Control Module
F19	CHEVYSTAR Fuse	F19DA	4 A	Not Used
F20	VLBS Fuse	F20DA	10 A	Not Used
F21	TRAILER Fuse	F21DA	20 A	Not Used
F22	AUDIO Fuse	F22DA	15 A	A11 Radio
F23	DIC Fuse	F23DA	10 A	Not Used
F24	URPA Fuse	F24DA	10 A	Not Used
F25	ONSTAR Fuse	F25DA	10 A	K73 Telematics Communication Interface Control Module
F26	IPC Fuse	F26DA	10 A	P16 Instrument Cluster
F27	AIRBAG RUN CRANK Fuse	F27DA	10 A	K36 Inflatable Restraint Sensing and Diagnostic Module
F28	IPC_AOS Fuse	F28DA	10 A	P14 Passenger Air Bag Disable Indicator, P16 Instrument Cluster
F29	CLUTCH SW Fuse	F29DA	7.5 A	Not Used
F30	HDLP ALC Fuse	F30DA	10 A	S30 Headlamp Switch
F31	SPARE Fuse	F31DA	10A	Not Used
F32	HVAC Fuse	F32DA	10 A	K33 HVAC Control Module
F33	CLOCKSPRING Fuse	F33DA	2 A	S70L Steering Wheel Controls Switch - Left (K34), S70R Steering Wheel Controls Switch - Right and X85 Steering Wheel Air Bag Coil
F34	TRAILER RUNCRAK Fuse	F34DA	10 A	Not Used
F35	PWR WNDW FRONT Fuse	F35DA	25 A	S79D Window Switch - Driver, S79P Window Switch - Passenger
F36	PWR WNDW REAR Fuse	F36DA	25 A	S79D Window Switch - Driver (A33)
F37	SPARE Fuse	F37DA	20 A	Not Used
F38	CIGAR APO Fuse	F38DA	20 A	E32 Cigarette Lighter Receptacle
				K61 Sunroof Control Module (CF5)

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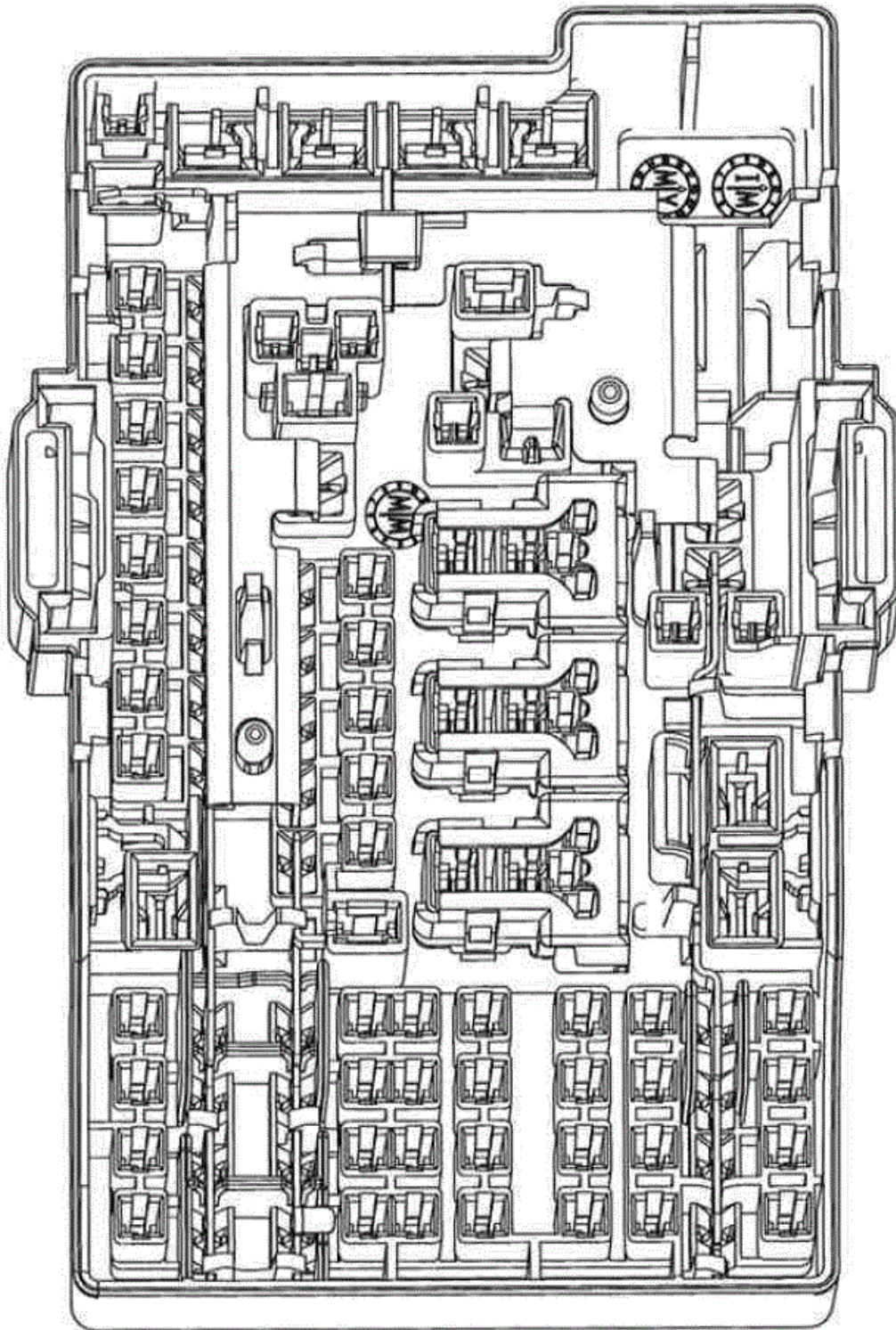
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F39	S/ROOF SW Fuse	F39DA	10 A	and S72 Sunroof Switch (CF5)
F40	SPARE Fuse	F40DA	10 A	Not Used
Relays				
R1	-	-	-	Not Used
R2	-	-	-	Not Used
R3	L/GATE RELAY	KR95A Liftgate Release Relay KR95B Rear Compartment Lid Release Relay	-	M30 Liftgate Latch (Hatchback) M40 Rear Compartment Lid Latch (Notchback)
R4	-	-	-	Not Used
R5	RUN RELAY	KR32E Blower Motor Relay	-	F32DA Fuse and M8 Blower Motor
R6	RAP/ACCY	KR76 Retained Accessory Power Relay	-	F35DA, F36DA, F37DA, F38DA, F39DA and F40DA Fuses

X51A FUSE BLOCK - INSTRUMENT PANEL, WIRE ENTRY

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2014 ELECTRICAL Wiring Systems and Power Management - Component Locator - Electrical Center Identification Views - Sonic



Connector Part Information

- Harness Type: Instrument Panel

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- OEM Connector: 2B128010F
- Service Connector: Service by Harness Assembly - See Parts Catalog
- Description: 75-Way F

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not Available	J-35616-35 (VT)	J-38125-36
II	Not Available	J-35616-35 (VT)	J-38125-36
III	Not Available	J-35616-35 (VT)	J-38125-36
IV	Not Available	J-35616-42 (RD)	J-38125-36

X51A Fuse Block - Instrument Panel, Wire Entry

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
F1Y-F2Y	-	-	-	Not Occupied	-	-
F3Y	1	L-GN/VT	7628	Power Window Motor Left Front Express Control	IV	-
F4Y	-	-	-	Not Occupied	-	-
F5Y	1	RD/WH	2040	Battery Positive Voltage	-	-
F6Y	1	RD/GY	2140	Battery Positive Voltage	-	-
F7Y	2.5	RD/BN	2240	Battery Positive Voltage	-	-
F8Y	2.5	RD/YE	2340	Battery Positive Voltage	-	-
F9Y	1.5	RD/L-GN	2440	Battery Positive Voltage	-	-
F10Y	1	RD/L-BU	2540	Battery Positive Voltage	-	-
F11Y	1	RD/VT	2640	Battery Positive Voltage	-	-
F12Y	2.5	RD/WH	2740	Battery Positive Voltage	-	-
F13Y	-	-	-	Not Occupied	-	-
F14Y	0.5	L-BU/WH	6128	Rear Closure Unlatch Motor Unlatch Control	-	-
F15Y	0.5	RD/GY	2840	Battery Positive Voltage	-	-
F16Y	0.5	RD/YE	3040	Battery Positive Voltage	-	-
F17Y	0.35	RD/VT	3340	Battery Positive Voltage	III	-
F18Y	0.5	RD/L-GN	3140	Battery Positive Voltage	II	-
F19Y	-	-	-	Not Occupied	-	-
F20Y	-	-	-	Not Occupied	-	-
F21Y	2.5	RD/VT	340	Battery Positive Voltage	I	-
F22Y	1.5	RD/L-BU	3240	Battery Positive Voltage	I	-
F23Y	-	-	-	Not Occupied	-	-
F24Y	0.5	RD/L-BU	4540	Battery Positive Voltage	-	-

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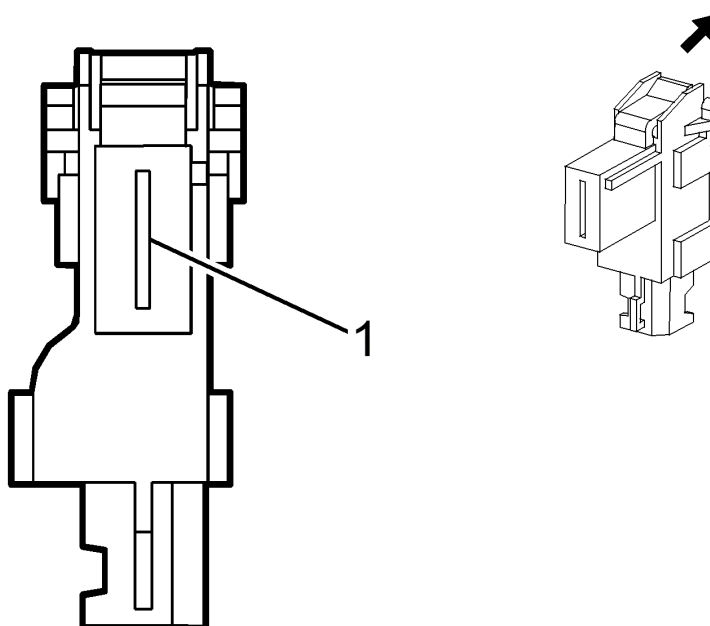
F25Y	0.5	RD/WH	3440	Battery Positive Voltage	-	UE1
F26Y	0.5	RD/BN	2940	Battery Positive Voltage	-	-
F27X	2.5	VT/WH	239	Run/Crank Ignition 1 Voltage	I	-
F27Y	0.5	VT/WH	639	Run/Crank Ignition 1 Voltage	II	-
F28X	2.5	VT/WH	239	Run/Crank Ignition 1 Voltage	-	-
F28Y	0.35	VT/BK	739	Run/Crank Ignition 1 Voltage	I	-
	0.35	VT/L-GN	839	Run/Crank Ignition 1 Voltage		-
F29X	2.5	VT/WH	239	Run/Crank Ignition 1 Voltage	-	M26/MZ4/MR5
F29Y	0.5	RD/L-GN	539	Run/Crank Ignition 1 Voltage	II	M26/MZ4/MR5
F30X	2.5	VT/WH	239	Run/Crank Ignition 1 Voltage	I	-
F30Y	0.5	VT/L-GN	839	Run/Crank Ignition 1 Voltage	-	-
F31X	-	-	-	Not Occupied	-	-
F31Y	-	-	-	Not Occupied	-	-
F32X	2.5	RD/L-BU	302	Battery Positive Voltage	I	-
F32Y	0.5	VT/BN	741	Run Ignition 3 Voltage	II	-
F33X	0.35	YE	6817	LED Backlight Dimming Control	III	-
F33Y	0.35	BN	6136	Supply Voltage	III	-
F34X	2.5	VT/WH	239	Run/Crank Ignition 1 Voltage	I	-
F34Y	0.75	VT/WH	1139	Run/Crank Ignition 1 Voltage	II	-
F35Y	2.5	VT/YE	443	Accessory Voltage	IV	-
F36Y	2.5	VT/YE	543	Accessory Voltage	IV	-
F37Y	-	-	-	Not Occupied	-	-
F38Y	1	VT/YE	243	Accessory Voltage	I	-
F39Y	0.35	VT/BN	641	Run Ignition 3 Voltage	III	-
F40Y	-	-	-	Not Occupied	-	-
R1_x	-	-	-	Not Occupied	-	-
R2_x	-	-	-	Not Occupied	-	-
R3_1	0.35	L-GN/BN	5706	Endgate Latch Relay Supply Voltage	-	-
R3_2	0.35	YE	5704	Endgate Latch Relay Coil Control	-	-
R3_3	0.5	L-BU/WH	6128	Rear Closure Unlatch Motor Unlatch Control	-	-
R3_4	-	-	-	Not Occupied	-	-
R3_5	0.5	L-BU/WH	6128	Rear Closure Unlatch Motor Unlatch Control	IV	-
R4_x	-	-	-	Not Occupied	-	-
R5_1	0.35	BK	1250	Ground	-	-
R5_2	0.35	BN/VT	5486	Run Relay Coil Control	-	-
R5_3	4.0	RD/YE	740	Battery Positive Voltage	-	-

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R5_4	-	-	-	Not Occupied	-	-
R5_5	3	RD/L-BU	302	Battery Positive Voltage	-	-
R6_1	0.35	GY/VT	755	RAP Relay Coil Control	-	-
R6_2	0.35	BK	1250	Ground	-	-
BUS3	-	-	-	Not Occupied	-	-

X51A FUSE BLOCK - INSTRUMENT PANEL X1



Connector Part Information

- Harness Type: Body
- OEM Connector: 21083000001
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way 12.0 Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	J-35616-64B (L-BU)	Not Available	Not Available	Not Available	Not Available	Not Available

X51A Fuse Block - Instrument Panel X1

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Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	8	RD/L-BU	42	Battery Positive Voltage	I	-

X70A RELAY BLOCK - UNDERHOOD LABEL (LUV)

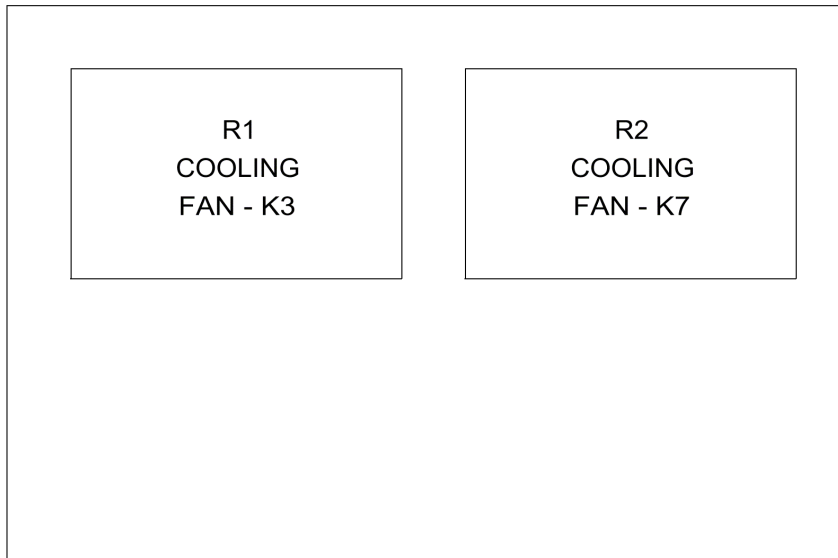


Fig. 10: X70A Relay Block - Fuse And Relay Underhood Label (LUV)
Courtesy of GENERAL MOTORS COMPANY

X70A RELAY BLOCK - UNDERHOOD, TOP VIEW (LUV)

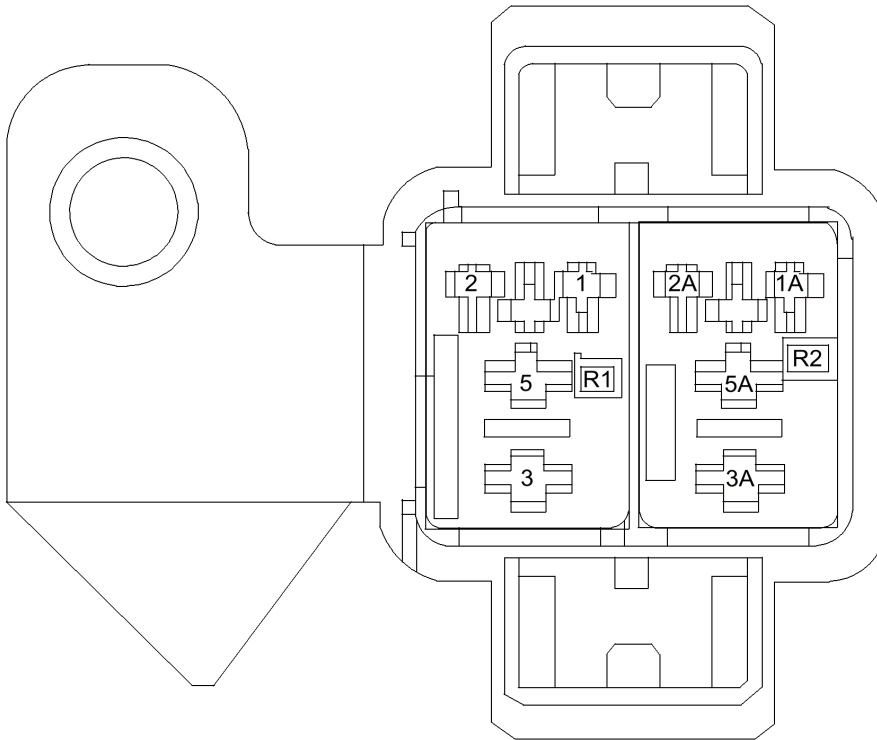


Fig. 11: X70A Relay Block -- Underhood, Top View (LUV)
Courtesy of GENERAL MOTORS COMPANY

X70A Relay Block - Underhood, Top View (LUV)

No.	Device Label Name	Device Assigned Name	Rating	Description
R1	COOLING FAN - K3	KR20E Cooling Fan Speed Control Relay	-	G10 Cooling Fan Motor
R2	COOLING FAN - K7	KR20F Cooling Fan Relay	-	G10 Cooling Fan Motor