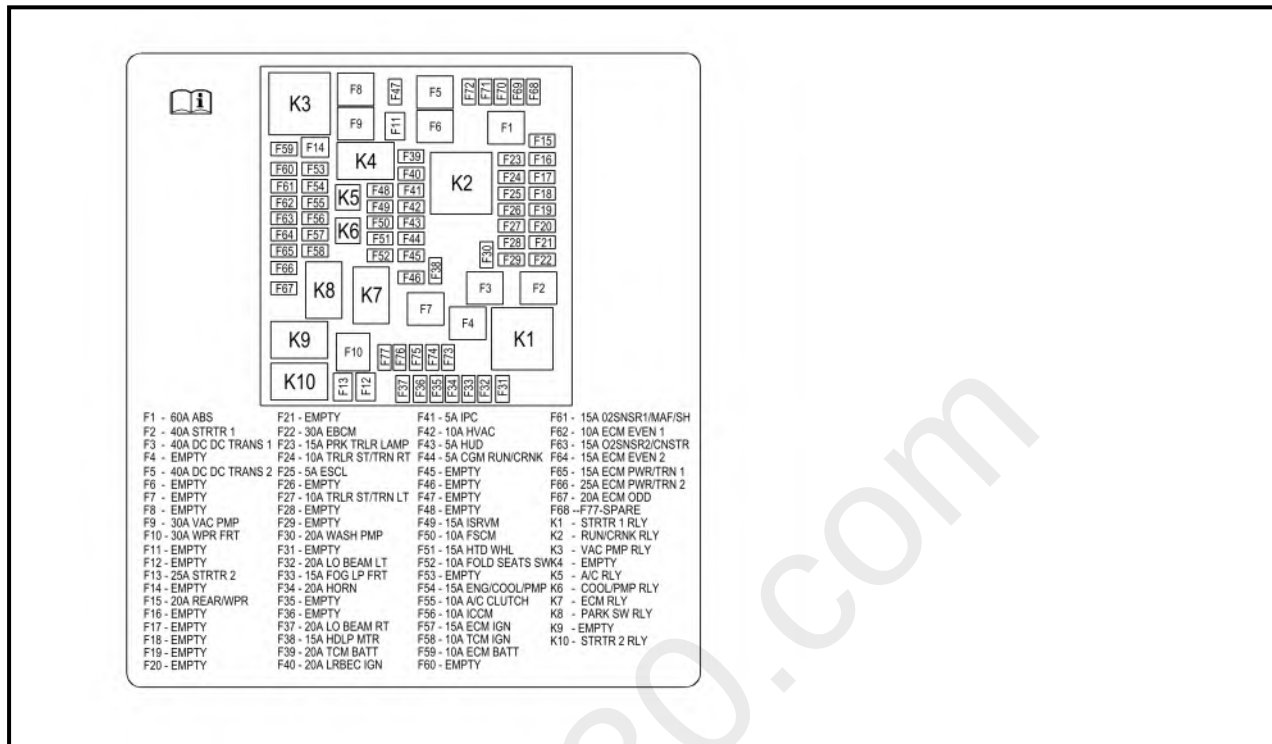


2018 ELECTRICAL

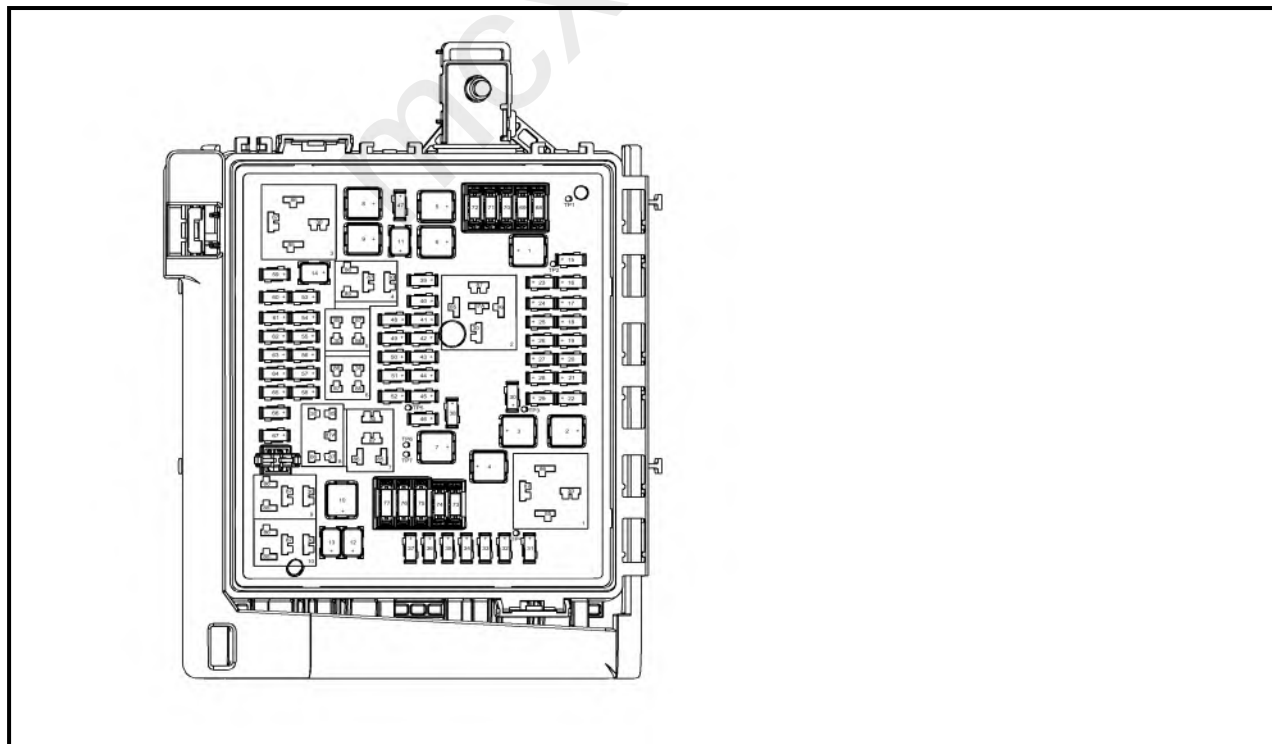
Component Locator - Electrical Center Identification Views

ELECTRICAL CENTER IDENTIFICATION VIEWS

X50A FUSE BLOCK - UNDERHOOD LABEL C1UX



X50A FUSE BLOCK - UNDERHOOD TOP VIEW



Usage Table

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				

No.	Device Label Name	Device Assigned Name	Rating	Description
F1	ABS	F1UA	60A	K17 Electronic Brake Control Module
F2	STRTR 1	F2UA	40A	KR27C Starter Pinion Solenoid Actuator Relay
F3	DC DC TRANS 1	F3UA	40A	T19 Power Supply Transformer
F4	EMPTY	F4UA	-	Not Used
F5	DC DC TRANS 2	F5UA	40A	T19 Power Supply Transformer
F6	EMPTY	F6UA	-	Not Used
F7	EMPTY	F7UA	-	Not Used
F8	EMPTY	F8UA	-	Not Used
F9	VAC PMP	F9UA	30A	KR14 Brake Booster Pump Motor Relay
F10	WPR FRT	F10UA	30A	- KR12B Windshield Wiper Relay - KR12C Windshield Wiper Speed Control Relay
F11	EMPTY	F11UA	-	Not Used
F12	EMPTY	F12UA	-	Not Used
F13	STRTR 2	F13UA	25A	Not Used
F14	EMPTY	F14UA	-	Not Used
F15	REAR/WPR	F15UA	20A	- KR7 Rear Wiper Relay - M45 Rear Wiper Motor
F16	EMPTY	F16UA	-	Not Used
F17	EMPTY	F17UA	-	Not Used

No.	Device Label Name	Device Assigned Name	Rating	Description
F18	EMPTY	F18UA	-	Not Used
F19	EMPTY	F19UA	-	Not Used
F20	EMPTY	F20UA	-	Not Used
F21	EMPTY	F21UA	-	Not Used
F22	EBCM	F22UA	30A	K17 Electronic Brake Control Module
F23	PRK TRLR LAMP	F23UA	15A	X88 Trailer Connector
F24	TRLR ST/TRN RT	F24UA	10A	X88 Trailer Connector
F25	ESCL	F25UA	5A	K60 Steering Column Lock Module (N06)
F26	EMPTY	F26UA	-	Not Used
F27	TRLR ST/TRN LT	F27UA	10A	X88 Trailer Connector
F28	EMPTY	F28UA	-	Not Used
F29	EMPTY	F29UA	-	Not Used
F30	WASH PMP	F30UA	20A	- KR11 Windshield Washer Pump Relay - KR6 Rear Window Washer Pump Relay
F31	EMPTY	F31UA	-	Not Used
F32	LO BEAM LT	F32UA	20A	Not Used
F33	FOG LP FRT	F33UA	15A	- E29LF Fog Lamp - Left Front (T3U) - E29RF Fog Lamp - Right Front (T3U)
F34	HORN	F34UA	20A	- P12L Horn - Left - P12R Horn - Right

No.	Device Label Name	Device Assigned Name	Rating	Description
F35	EMPTY	F35UA	-	Not Used
F36	EMPTY	F36UA	-	Not Used
F37	LO BEAM RT	F37UA	20A	Not Used
F38	HDLP MTR	F38UA	15A	Not Used
F39	TCM BATT	F39UA	20A	K71 Transmission Control Module
F40	LRBEC IGN	F40UA	20A	- F17RA Fuse - F18RA Fuse - F19RA Fuse - T19 Power Supply Transformer - X53A Fuse Block - Rear Body
F41	IPC	F41UA	5A	P16 Instrument Cluster
F42	HVAC	F42UA	10A	- A34 HVAC Controls - Auxiliary - K33 HVAC Control Module - E40 Electrical Auxiliary Heater (C32)
F43	HUD	F43UA	5A	P43 Collision Alert Indicators (UEU)
F44	CGM RUN/CRNK	F44UA	5A	Not Used
F45	EMPTY	F45UA	-	Not Used
F46	EMPTY	F46UA	-	Not Used
F47	EMPTY	F47UA	-	Not Used
F48	EMPTY	F48UA	-	Not Used
F49	ISRVM	F49UA	15A	A10 Inside Rearview Mirror (DD8/DRZ)

No.	Device Label Name	Device Assigned Name	Rating	Description
F50	FSCM	F50UA	10A	K111 Fuel Pump Driver Control Module
F51	HTD WHL	F51UA	15A	- K32 Steering Wheel Heating Control Module (UVD) - X85 Steering Wheel Air Bag Coil (UVD)
F52	FOLD SEATS SW	F52UA	10A	S144B Folding Seat Control Switch - Rear Compartment 3rd Row (AS8)
F53	EMPTY	F53UA	-	Not Used
F54	ENG/COOL/PMP	F54UA	15A	G36 Auxiliary Heater Coolant Pump
F55	A/C CLTCH	F55UA	10A	G1 A/C Compressor
F56	ICCM	F56UA	10A	Not Used
F57	ECM IGN	F57UA	15A	K20 Engine Control Module
F58	TCM IGN	F58UA	10A	K71 Transmission Control Module
F59	ECM BATT	F59UA	10A	K20 Engine Control Module
F60	EMPTY	F60UA	-	Not Used
F61	O2SNSR1/MAF/SH	F61UA	15A	- B52B Heated Oxygen Sensor 2 (LTG) - B52D Heated Oxygen Sensor - Bank 1 Sensor 2 (LFY) - B52F Heated Oxygen Sensor - Bank 2 Sensor 2 (LFY) - B75C Multifunction Intake Air Sensor - K20 Engine Control Module
F62	ECM EVEN 1	F62UA	10A	- K20 Engine Control Module - T8A Ignition Coil 1 - T8C Ignition Coil 3 - T8E Ignition Coil 5 (LFY)

No.	Device Label Name	Device Assigned Name	Rating	Description
F63	O2SNSR2/CNSTR	F63UA	15A	• B52A Heated Oxygen Sensor 1 (LTG) • B52C Heated Oxygen Sensor - Bank 1 Sensor 1 (LFY) • B52E Heated Oxygen Sensor - Bank 2 Sensor 1 (LFY) • 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 (LTG)
F64	ECM EVEN 2	F64UA	10A	• K20 Engine Control Module (LFY) • T8B Ignition Coil 2 • T8D Ignition Coil 4 • T8F Ignition Coil 6 (LFY)
F65	ECM PWR/TRN 1	F65UA	15A	• K20 Engine Control Module
F66	ECM PWR/TRN 2	F66UA	25A	• K20 Engine Control Module
F67	ECM ODD	F67UA	20A	• M96A Active Grille Air Shutter 1 Actuator (WMI) • M96B Active Grille Air Shutter 2 Actuator (VTI or WMI)
F68	SPARE	F68UA	-	• Not Used
F69	SPARE	F69UA	-	• Not Used
F70	SPARE	F70UA	-	• Not Used
F71	SPARE	F71UA	-	• Not Used
F72	SPARE	F72UA	-	• Not Used
F73	SPARE	F73UA	-	• Not Used
F74	SPARE	F74UA	-	• Not Used

No.	Device Label Name	Device Assigned Name	Rating	Description
F75	SPARE	F75UA	-	Not Used
F76	SPARE	F76UA	-	Not Used
F77	SPARE	F77UA	-	Not Used
Relays				
K1	STRTR 1 RLY	KR27C Starter Pinion Solenoid Actuator Relay	-	M64 Starter Motor
K2	RUN/CRNK RLY	KR73 Ignition Main Relay	-	- F25UA Fuse - F38UA Fuse - F40UA Fuse - F41UA Fuse - F42UA Fuse - F43UA Fuse - F44UA Fuse - F49UA Fuse - F50UA Fuse - F51UA Fuse - F57UA Fuse - F58UA Fuse
K3	VAC PMP RLY	KR14 Brake Booster Pump Motor Relay	-	M9 Brake Booster Pump Motor
K4	EMPTY	-	-	Not Used
K5	A/C RLY	KR29 A/C Compressor Clutch Relay	-	F55UA Fuse
K6	COOL/PMP RLY	KR31 Coolant Pump Relay - Auxiliary	-	F54UA Fuse
K7	ECM RLY	KR75 Engine Controls Ignition Relay	-	- F61UA Fuse - F62UA Fuse - F63UA Fuse - F64UA Fuse - F65UA Fuse - F66UA Fuse - F67UA Fuse - KR29 A/C Compressor Clutch Relay - KR31 Coolant Pump Relay - Auxiliary

No.	Device Label Name	Device Assigned Name	Rating	Description
K8	PARK SW RLY	KR87 Transmission Park Position Relay	-	F52UA Fuse
K9	EMPTY	-	-	Not Used
K10	STRTR 2 RLY	KR27 Starter Relay	-	M64 Starter Motor

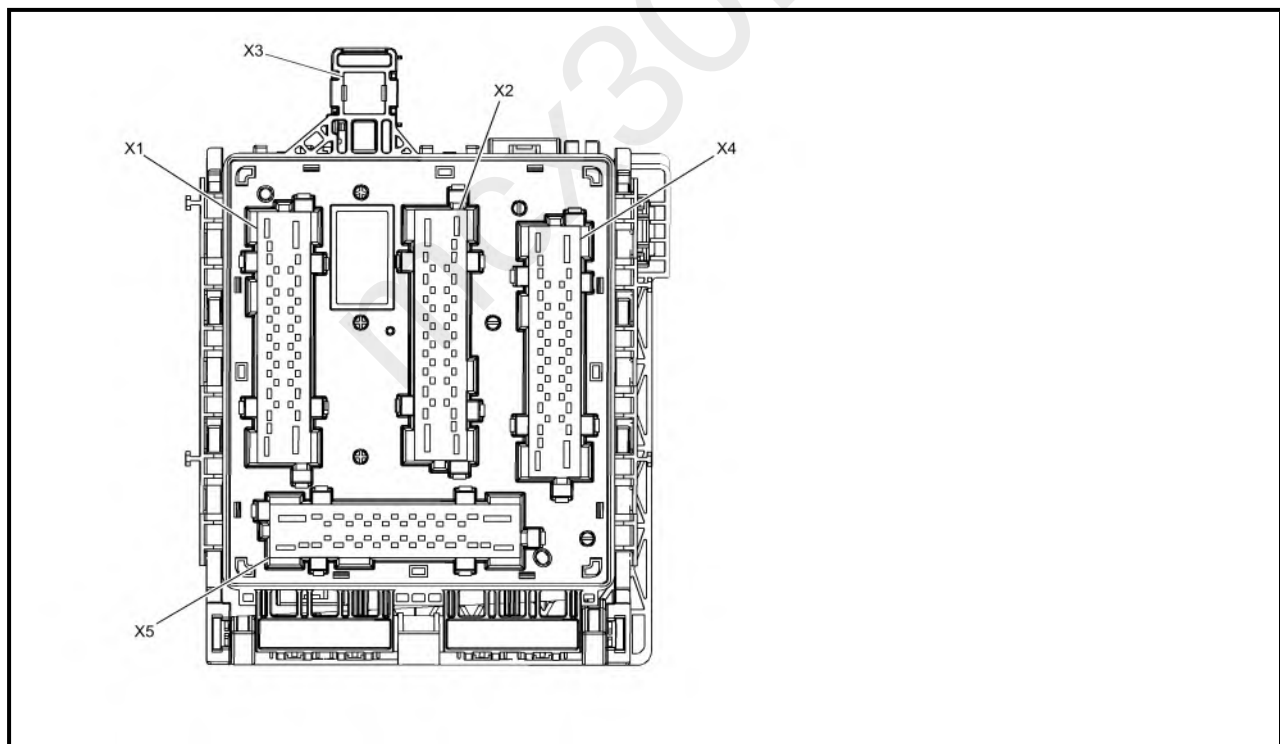
Important: Relays listed below are non-serviceable Printed Circuit Board (PCB) relays and are internal to the block.

-	-	KR3 Horn Relay	-	F34UA Fuse
-	-	KR6 Rear Window Washer Pump Relay	-	G19 Rear Window Washer Pump
-	-	KR7 Rear Wiper Relay	-	M45 Rear Wiper Motor
-	-	KR11 Windshield Washer Pump Relay	-	G24 Windshield Washer Pump
-	-	KR12B Windshield Wiper Relay	-	KR12C Windshield Wiper Speed Control Relay
-	-	KR12C Windshield Wiper Speed Control Relay	-	M75 Windshield Wiper Motor
-	-	KR46 Front Fog Lamp Relay	-	F33UA Fuse
-	-	KR49L Headlamp Low Beam Relay - Left	-	F32UA Fuse
-	-	KR49R Headlamp Low Beam Relay - Right	-	F37UA Fuse
-	-	KR63L Trailer Stop/Turn Signal Lamp Relay - Left	-	F27UA Fuse
-	-	KR63R Trailer Stop/Turn Signal Lamp Relay - Right	-	F24UA Fuse
-	-	KR125 Trailer Park Lamps Relay	-	F23UA Fuse

Important: Items listed below are Wipers and Washers system diagnostic testing points.

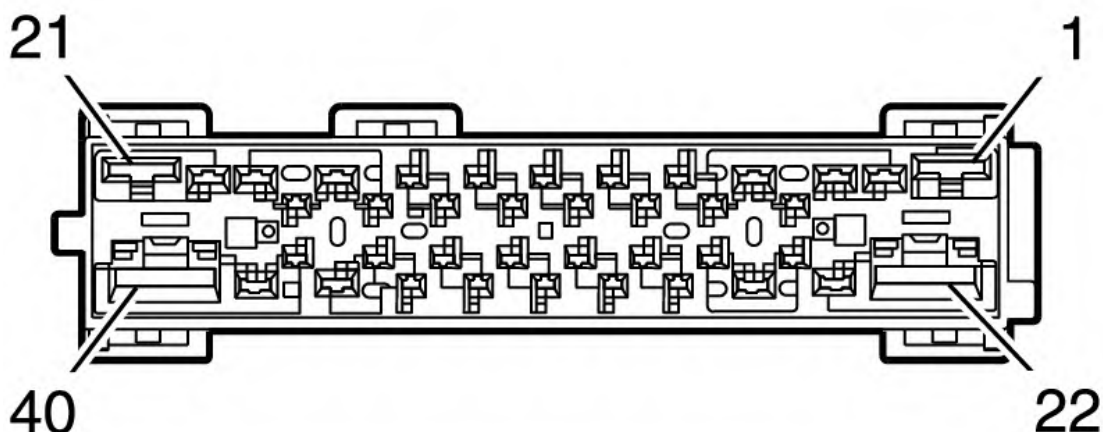
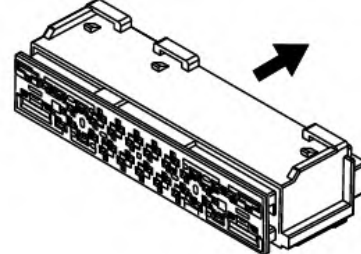
No.	Device Label Name	Device Assigned Name	Rating	Description
TP1	TEST POINT CKT 1350	TP1	-	• KR7 Rear Wiper Relay
TP2	TEST POINT CKT 393	TP2	-	• KR7 Rear Wiper Relay
TP3	TEST POINT CKT 228	TP3	-	• KR11 Windshield Washer Pump Relay
TP4	TEST POINT CKT 392	TP4	-	• KR6 Rear Window Washer Pump Relay
TP5	TEST POINT CKT 850	TP5	-	• KR12B Windshield Wiper Relay
TP6	TEST POINT CKT 92	TP6	-	• KR12C Windshield Wiper Speed Control Relay
TP7	TEST POINT CKT 95	TP7	-	• KR12C Windshield Wiper Speed Control Relay

X50A FUSE BLOCK - UNDERHOOD BOTTOM VIEW C1UX



X50A FUSE BLOCK - UNDERHOOD X1





Connector Part Information

- Harness Type: Body
- OEM Connector: 23161961
- Service Connector: 19333352
- Description: 40-Way F 1.5, 2.8, 6.3, 9.5 Kaizen Series (BK)

Terminal Part Information

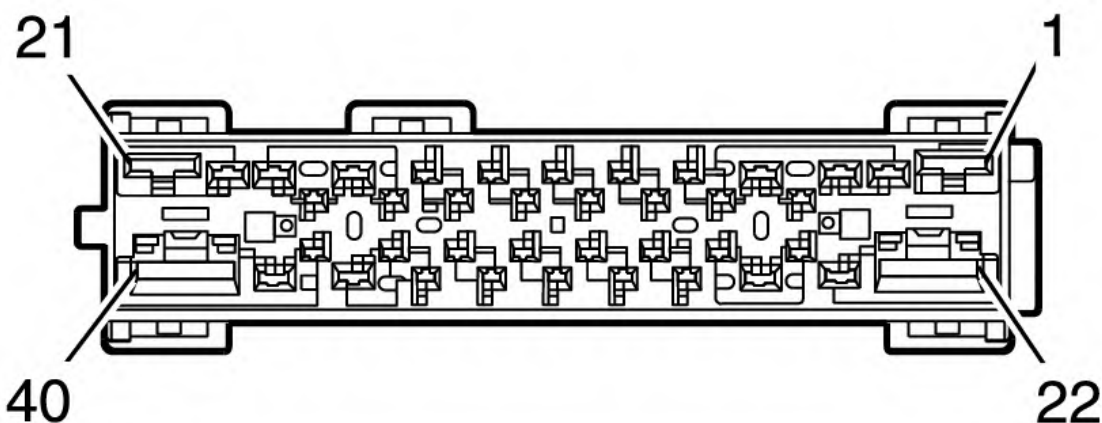
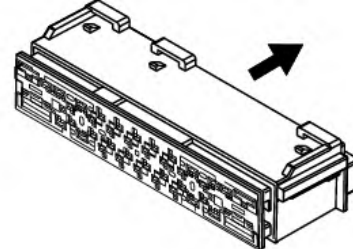
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575839	J-35616-35 (VT)	J-38125-11A	7116-4111-02	Yazaki 9	E	A
II	13575850	J-35616-14 (GN)	J-38125-557	7116-4111-02	Yazaki 9	E	A
III	13575850	J-35616-14 (GN)	J-38125-557	Not Available	Not Available	Not Available	Not Available
IV	13578892	J-35616-2A (GY)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
V	19333301	J-35616-22 (RD)	J-38125-560	7116-4111-02	Yazaki 9	E	A
VI	19368264	J-35616-35 (VT)	J-38125-11A	7116-4111-02	Yazaki 9	E	A

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 3	-	-	-	Not Occupied	-	-
4	1.5	YE	712	Left Headlamp Low Beam Control	IV	-
5	2.5 2.5	RD/GY RD/GY	1042 1042	Battery Positive Voltage Battery Positive Voltage	VI VI	W49 X88
6	0.35	BN/WH	1317	Fog Lamp Relay Control	II	T3U
7	-	-	-	Not Occupied	-	-
8	0.35	GN/WH	2270	Rear Window Washer Relay Control	II	-
9	-	-	-	Not Occupied	-	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
10	1.5	YE	312	Right Headlamp Low Beam Control	IV	-
11 - 15	-	-	-	Not Occupied	-	-
16	0.35	YE	5420	Rear Wiper Motor Relay Coil Control	II	-
17	-	-	-	Not Occupied	-	-
18	0.75	BK	1350	Ground	II	-
19	0.75 0.75	RD/YE RD/YE	3040 3040	Battery Positive Voltage Battery Positive Voltage	I I	W49 X88
20 - 21	-	-	-	Not Occupied	-	-
22	6 6	RD/GY RD/GY	1342 1342	Battery Positive Voltage Battery Positive Voltage	V V	W49 X88
23	-	-	-	Not Occupied	-	-
24	0.35 0.35	YE/BN YE/BN	2229 2229	Left Headlamp Relay Control Left Headlamp Relay Control	II II	W49 X88
25	-	-	-	Not Occupied	-	-
26	0.35 0.35	BN/WH BN/WH	28 28	Horn Relay Control Horn Relay Control	II II	W49 X88
27	-	-	-	Not Occupied	-	-
28	0.35	BU/WH	5186	Left Trailer Turn Signal Lamp Control	II	-
29	0.75 0.75	YE/BU YE/BU	318 318	Left Rear Trailer Stop/Turn Lamp Control Left Rear Trailer Stop/Turn Lamp Control	II II	V92 X88
30	0.35	BN/GY	2268	Windshield Washer Relay Control	II	-
31	-	-	-	Not Occupied	-	-
32	1	BK	1050	Ground	III	-
33	0.35 0.35	BU/VT BU/VT	807 807	OFF /Accessory Ignition Voltage OFF /Accessory Ignition Voltage	II II	N06 X88
34	-	-	-	Not Occupied	-	-
35	0.75 0.75	GN/BN GN/BN	319 319	Right Rear Trailer Stop/Turn Lamp Control Right Rear Trailer Stop/Turn Lamp Control	II II	V92 X88
36	0.35	YE/GY	5187	Right Trailer Turn Signal Lamp Control	II	-
37	1.5 1.5	GY/BN GY/BN	2109 2109	Trailer Park Lamp Control Trailer Park Lamp Control	VI VI	V92 X88
38	0.35	BU	45	Park Lamp Relay Control	II	-
39	0.75 0.75	BU BU	393 393	Rear Window Wiper Motor Control Rear Window Wiper Motor Control	I I	W49 X88
40	4 4	RD/YE RD/YE	442 442	Battery Positive Voltage Battery Positive Voltage	V V	W49 X88

X50A FUSE BLOCK - UNDERHOOD X2

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Connector Part Information

- Harness Type: Body
- OEM Connector: 23161966
- Service Connector: 19333353
- Description: 40-Way F 1.5, 2.8, 6.3, 9.5 Kaizen Series (GY)

Terminal Part Information

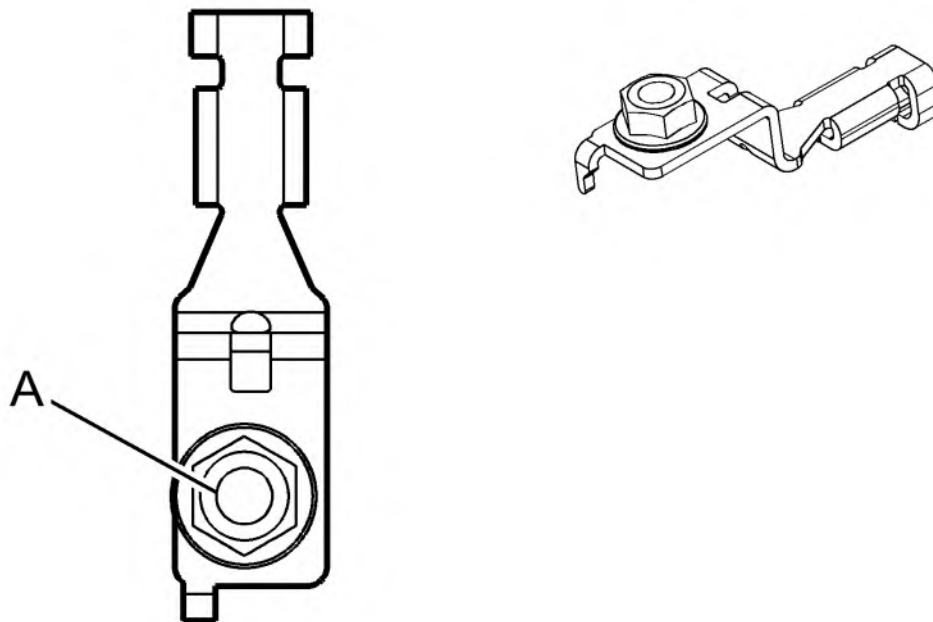
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575839	J-35616-35 (VT)	J-38125-11A	7116-4110-02	Yazaki 9	E	C
II	13575839	J-35616-35 (VT)	J-38125-11A	7116-4111-02	Yazaki 9	C	A
III	13575839	J-35616-35 (VT)	J-38125-11A	7116-4111-02	Yazaki 9	E	A
IV	13575850	J-35616-14 (GN)	J-38125-557	7116-4111-02	Yazaki 9	C	A
V	13575850	J-35616-14 (GN)	J-38125-557	Not Available	Not Available	Not Available	Not Available
VI	19368264	J-35616-35 (VT)	J-38125-11A	7116-4111-02	Yazaki 9	C	A
VII	19368264	J-35616-35 (VT)	J-38125-11A	7116-4112-02	Yazaki 9	C	D
VIII	19368887	J-35616-42 (RD)	J-38125-11A	7116-4111-02	Yazaki 9	C	A

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	6	RD/BU	1542	Battery Positive Voltage	VIII	KL9
	6	RD/BU	1542	Battery Positive Voltage	VIII	X88
2	-	-	-	Not Occupied	-	-
3	0.75	BU/BN	7573	Electric Variable Displacement Supply	III	-
4 - 6	-	-	-	Not Occupied	-	-
7	0.75	BU/YE	7574	Electric Variable Displacement Control	V	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
8	0.5 0.5	VT/BU VT/BU	7078 7078	Powertrain Main Relay Fused Control 7 Powertrain Main Relay Fused Control 7	IV IV	VTI/WMI X88
9	0.5 0.5	YE YE	6812 6812	Out of Park Signal Out of Park Signal	IV IV	AS8 X88
10	-	-	-	Not Occupied	-	-
11	0.5 0.5	VT/WH VT/WH	639 639	Run/Crank Ignition 1 Voltage Run/Crank Ignition 1 Voltage	IV IV	DD8/DRZ X88
12	-	-	-	Not Occupied	-	-
13	0.5	VT/GN	1739	Run/Crank Ignition 1 Voltage	IV	-
14	0.5	WH/VT	860	Front Windshield Wiper Switch High Signal	IV	-
15	0.5 0.5	VT/WH VT/WH	1139 1139	Run/Crank Ignition 1 Voltage Run/Crank Ignition 1 Voltage	IV IV	UVD X88
16	0.35	GY	91	Windshield Wiper Motor Relay Coil Control	IV	-
17	0.5 0.5	YE/BK YE/BK	5813 5813	Park Enable Control Park Enable Control	I I	AS8 X88
18	0.35 0.35	YE/BU YE/BU	2228 2228	Right Headlamp Relay Control Right Headlamp Relay Control	IV IV	T4F/T4L X88
19	2	WH	92	Windshield Wiper Motor High Speed Control	VII	-
20	2	YE/BN	95	Windshield Wiper Motor Low Speed Control	VII	-
21 - 22	-	-	-	Not Occupied	-	-
23	1 1	RD/GN RD/GN	1840 1840	Battery Positive Voltage Battery Positive Voltage	II II	KL9+M3W M3V
24	-	-	-	Not Occupied	-	-
25	2.5 2.5	RD/GN RD/GN	2173 2173	12V Regulated Supply Voltage 2 12V Regulated Supply Voltage 2	VI VI	KL9 X88
26	-	-	-	Not Occupied	-	-
27	0.75	VT/BK	1639	Run/Crank Ignition 1 Voltage	V	-
28	0.35	GN/VT	5199	Run/Crank Relay Coil Control	IV	-
29	0.35	VT/GY	139	Run/Crank Ignition 1 Voltage	IV	-
30	-	-	-	Not Occupied	-	-
31	0.35	VT/GY	1039	Run/Crank Ignition 1 Voltage	IV	-
32	-	-	-	Not Occupied	-	-
33	0.35 0.35	VT/GY VT/GY	539 539	Run/Crank Ignition 1 Voltage Run/Crank Ignition 1 Voltage	IV IV	UEU X88
34 - 37	-	-	-	Not Occupied	-	-
38	1	BK	850	Ground	V	-
39 - 40	-	-	-	Not Occupied	-	-

X50A FUSE BLOCK - UNDERHOOD X3





Connector Part Information

- Harness Type: Battery Cable
- OEM Connector: 1196601
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way Ring Terminal

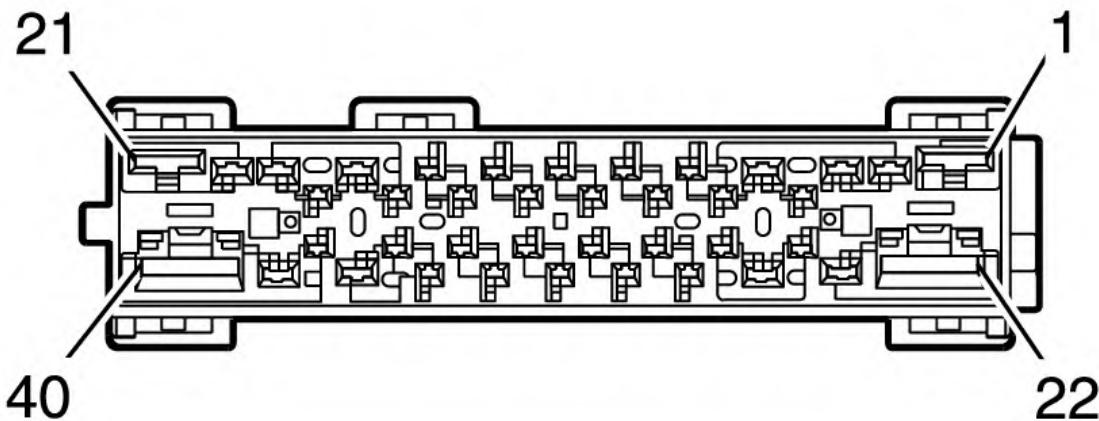
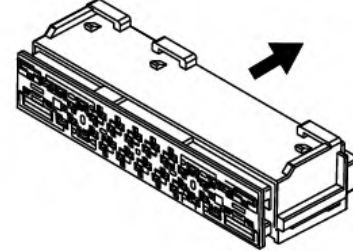
Terminal Part Information

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	35	RD/YE	2	Battery Positive Voltage	I	-

X50A FUSE BLOCK - UNDERHOOD X4





Connector Part Information

- Harness Type: Engine
- OEM Connector: 23161965
- Service Connector: 19333354
- Description: 40-Way F 1.5, 2.8, 6.3, 9.5 Kaizen Series (BN)

Terminal Part Information

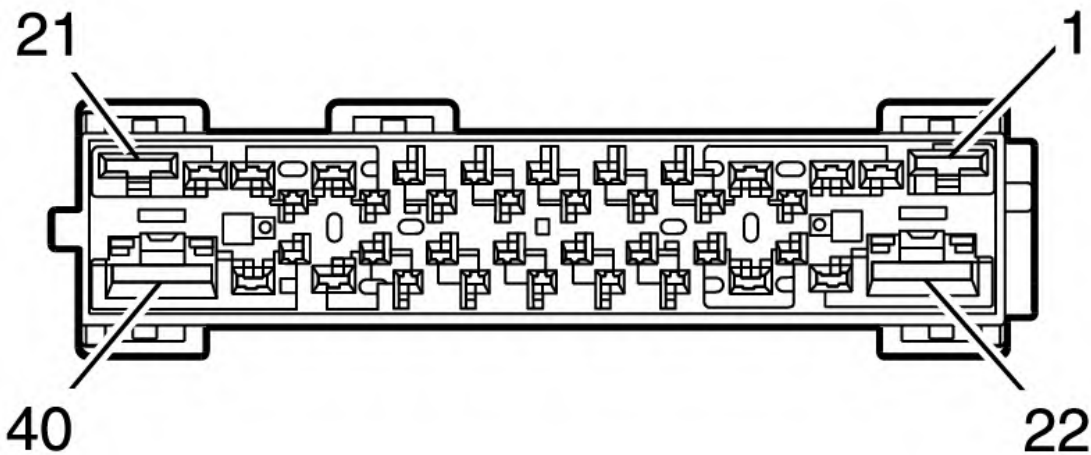
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575839	J-35616-35 (VT)	J-38125-11A	7116-4110-02	Yazaki 9	E	C
II	13575839	J-35616-35 (VT)	J-38125-11A	7116-4111-02	Yazaki 9	E	A
III	13575850	J-35616-14 (GN)	J-38125-557	Not Available	Not Available	Not Available	Not Available
IV	13578927	J-35616-22 (RD)	J-38125-11A	7116-3251	Yazaki 10	F	3
V	13578928	J-35616-42 (RD)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
VI	19368264	J-35616-35 (VT)	J-38125-11A	Not Available	Not Available	Not Available	Not Available

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	2.5	YE	6	Starter Solenoid Crank Ignition Voltage	VI	-
3 - 6	-	-	-	Not Occupied	-	-
7	0.5	PU/BK	2139	Run/Crank Ignition 1 Voltage	III	M3V
8	-	-	-	Not Occupied	-	-
9	0.5	PU/GY	139	Run/Crank Ignition 1 Voltage	III	-
10	0.5	YE	5991	Powertrain Relay Coil Control	III	-
11	0.5	PU/BU	7078	Powertrain Main Relay Fused Control 7	III	-
12	-	-	-	Not Occupied	-	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
13	1	BN/GN	59	A/C Compressor Clutch Control	III	-
14	0.5	YE/PU	4325	Starter Pinion Solenoid Relay Control	III	-
15	0.5	YE/BU	5126	After Boil Heater Pump Control	III	-
16	0.75	BU/YE	7574	Electric Variable Displacement Control	III	-
17 - 19	-	-	-	Not Occupied	-	-
20	0.75	BU/BN	7573	Electric Variable Displacement Supply	II	-
21	2.5	BN/PU	1470	Brake Booster Pump Motor Control	V	LFY
22	3	YE/GN	4358	Starter Pinion Solenoid Voltage	IV	-
23	2	PU/BU	5291	Powertrain Main Relay Fused Supply 2	VI	-
24	0.5	YE/BK	625	Starter Enable Relay Control	III	-
25	2	PU/BU	5290	Powertrain Main Relay Fused Supply 1	VI	-
26	-	-	-	Not Occupied	-	-
27	0.5	PU/BU	5705	Powertrain Main Relay Fused Control 6	III	-
28	0.5	WH/GY	459	A/C Compressor Clutch Relay Control	III	-
29	1	PU/BU	5292	Powertrain Main Relay Fused Supply 3	III	-
30	0.5	GY	5127	After Boil Heater Relay Control	III	-
31	0.5	PU/BU	5293	Powertrain Main Relay Fused Supply 4	III	-
32	-	-	-	Not Occupied	-	-
33	1	PU/BU	5292	Powertrain Main Relay Fused Supply 3	III	-
34	-	-	-	Not Occupied	-	-
35	0.5	PU/BU	5294	Powertrain Main Relay Fused Supply 5	III	-
36 - 37	-	-	-	Not Occupied	-	-
38	0.5	BN	6305	Brake Vacuum Switch Signal	III	LFY
39	0.5	RD/WH	140	Battery Positive Voltage	I	-
40	-	-	-	Not Occupied	-	-

X50A FUSE BLOCK - UNDERHOOD X5





Connector Part Information

- Harness Type: Forward Lamp
- OEM Connector: 7289-3994-60
- Service Connector: 19333355
- Description: 40-Way F 1.5, 2.8, 6.3, 9.5 Kaizen Series (GN)

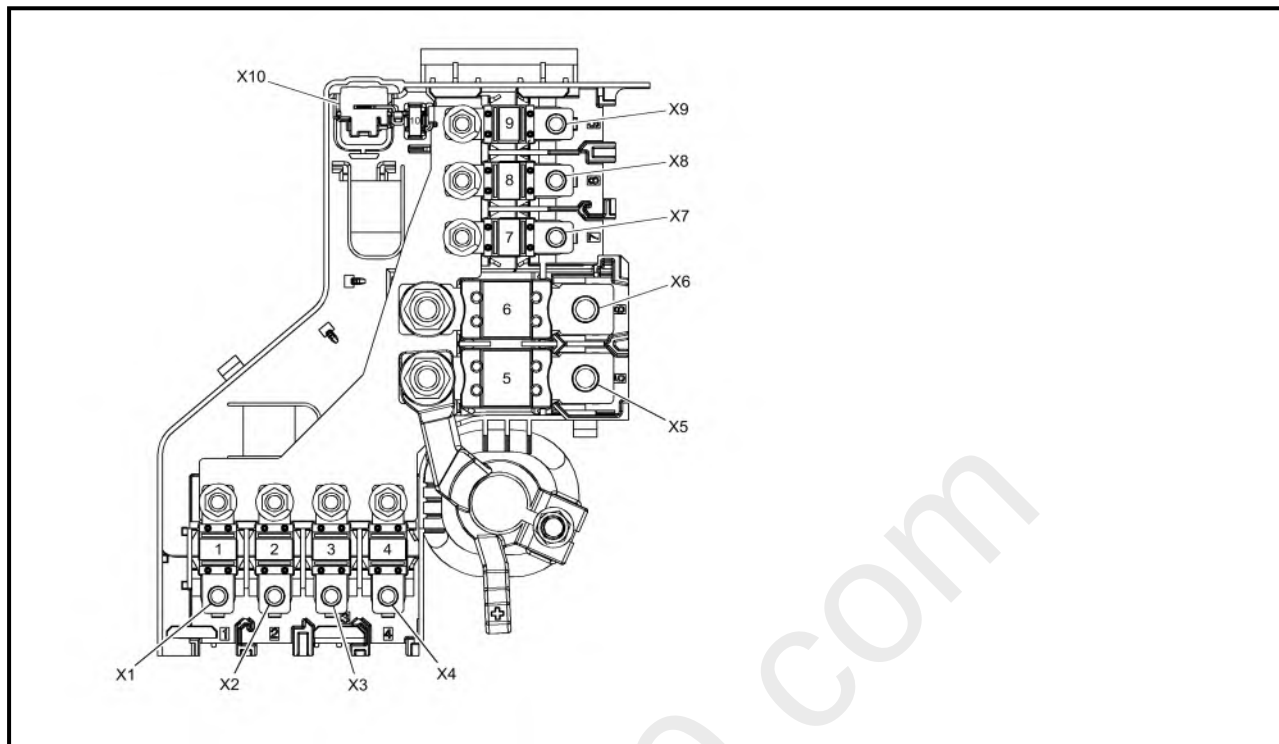
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575839	J-35616-35 (VT)	J-38125-11A	7116-4111-02	Yazaki 9	C	A
II	13575839	J-35616-35 (VT)	J-38125-11A	7116-4111-02	Yazaki 9	E	A
III	13575850	J-35616-14 (GN)	J-38125-557	7116-4111-02	Yazaki 9	E	A
IV	13575850	J-35616-14 (GN)	J-38125-557	Not Available	Not Available	Not Available	Not Available
V	13578892	J-35616-2A (GY)	J-38125-11A	7116-4111-02	Yazaki 9	E	A

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 4	-	-	-	Not Occupied	-	-
5	1	YE	312	Right Headlamp Low Beam Control	I	CZ3
6 - 12	-	-	-	Not Occupied	-	-
13	1.5	BN/GY	29	Horn Control	V	-
14	-	-	-	Not Occupied	-	-
15	0.75	BN/PU	2234	Front Fog Lamp Control	III	T3U
16 - 19	-	-	-	Not Occupied	-	-
20	0.75	GY/PU	228	Windshield Washer Pump Control	II	-
21 - 31	-	-	-	Not Occupied	-	-
32	0.5	PU/GY	539	Run/Crank Ignition 1 Voltage	IV	TR6

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
33 - 38	-	-	-	Not Occupied	-	-
39	0.75	BU/PU	392	Rear Window Washer Pump Control	II	-
40	-	-	-	Not Occupied	-	-

X50D FUSE BLOCK - BATTERY TOP VIEW

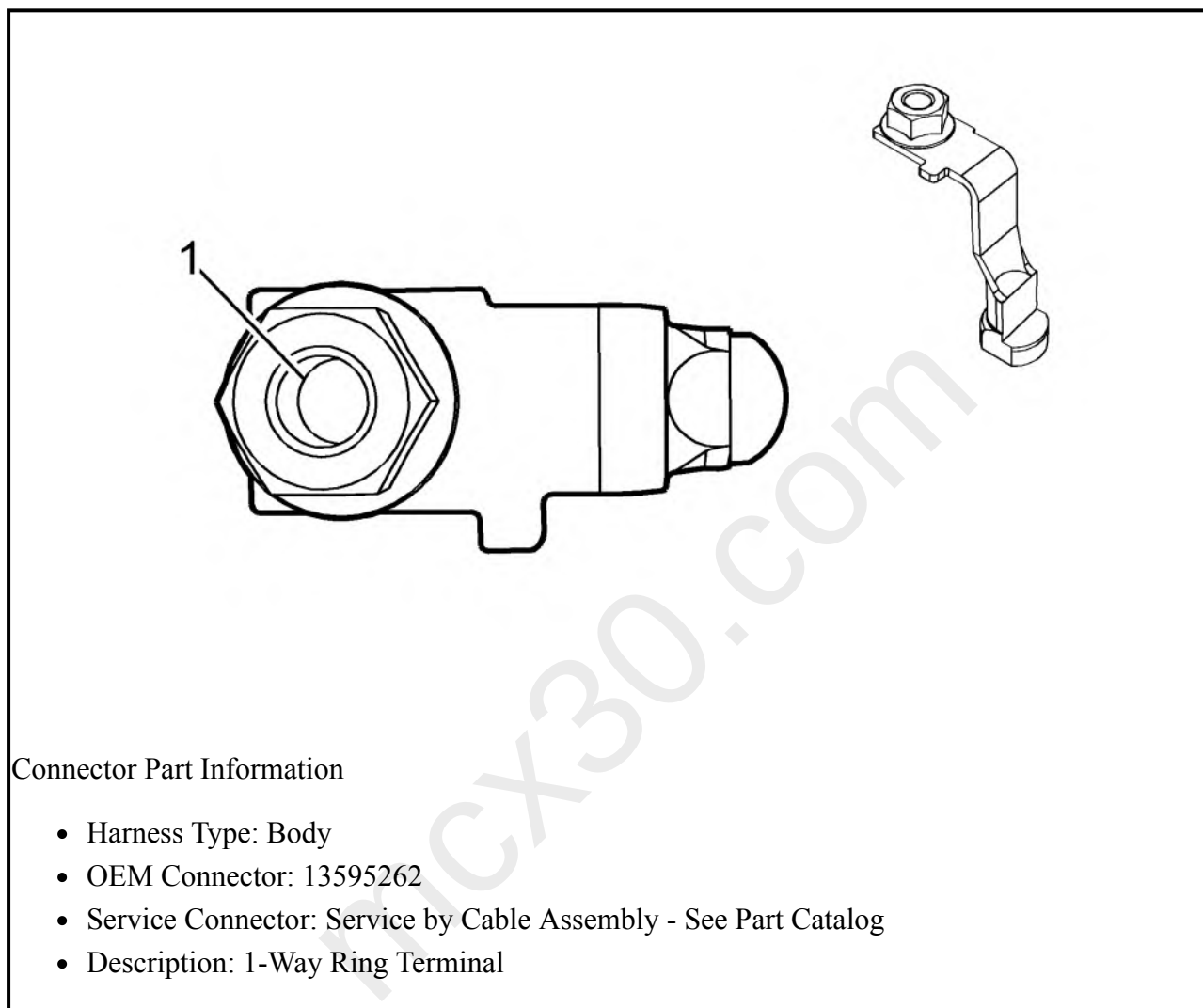


X50D Fuse Block - Battery Usage

No.	Device Label Name	Device Assigned Name	Rating	Description
1	-	F1BA	150A	• X53A Fuse Block - Rear Body
2	-	F2BA	100A	• X51A Fuse Block - Instrument Panel
3	-	F3BA	100A	• X51A Fuse Block - Instrument Panel
4	-	F4BA	70A	• K22 Cooling Fan Control Module
5	-	F5BA	250A	• X50A Fuse Block - Underhood
6	-	F6BA	350A	• M64 Starter Motor
7	-	F7BA	200A	• G13 Generator
8	-	F8BA	150A	• K43 Power Steering Control Module

No.	Device Label Name	Device Assigned Name	Rating	Description
9	-	F9BA	100A	E40 Electrical Auxiliary Heater (C32)
10	-	F10BA	5A	B110 Battery Sensor Module

X50D FUSE BLOCK - BATTERY X1



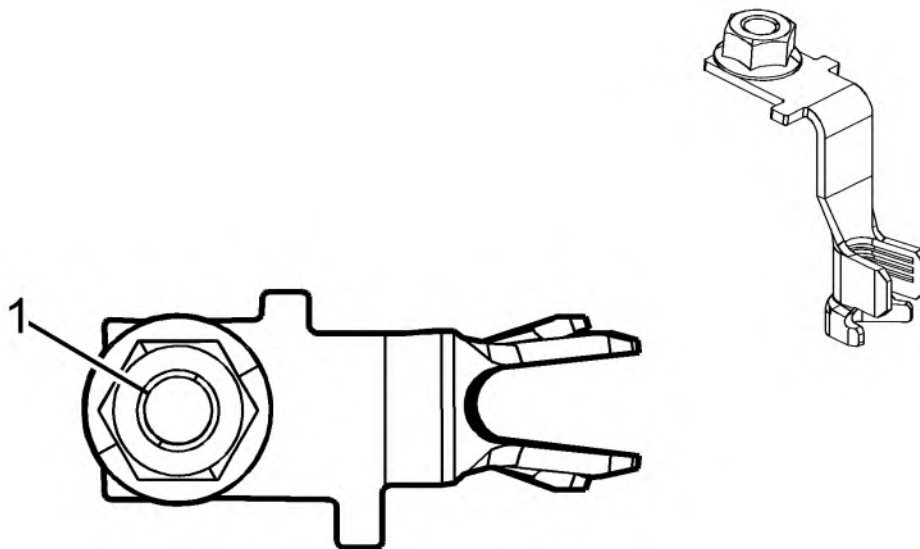
Terminal Part Information

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	20	RD/PU	1242	Battery Positive Voltage	I	-

X50D FUSE BLOCK - BATTERY X2





Connector Part Information

- Harness Type: Body
- OEM Connector: 13595264
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way Ring Terminal

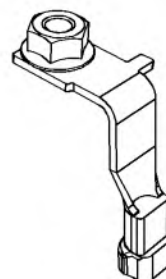
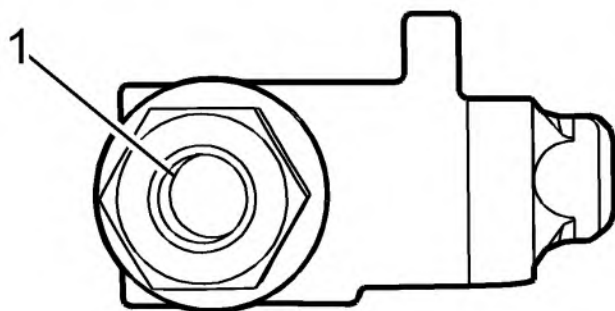
Terminal Part Information

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

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

X50D FUSE BLOCK - BATTERY X3





Connector Part Information

- Harness Type: Body
- OEM Connector: 13595263
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way Ring Terminal

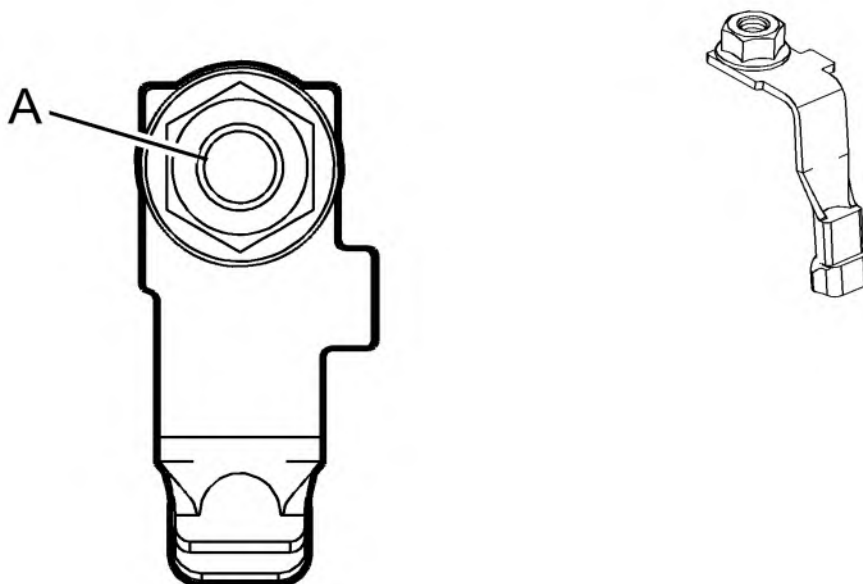
Terminal Part Information

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	10	RD/PU	842	Battery Positive Voltage	I	-

X50D FUSE BLOCK - BATTERY X4





Connector Part Information

- Harness Type: Engine
- OEM Connector: 13595265
- 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/GN	242	Battery Positive Voltage	I	-

X50D FUSE BLOCK - BATTERY X5

Connector Part Information

- Harness Type: Battery Cable
- OEM Connector: 1196502
- 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	35	RD/YE	2	Battery Positive Voltage	I	-

X50D FUSE BLOCK - BATTERY X6

Connector Part Information

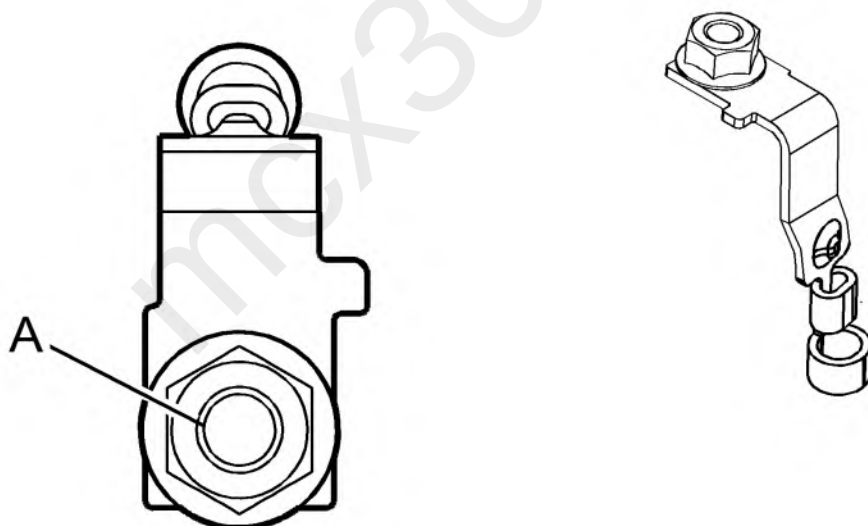
- Harness Type: Battery Cable
- OEM Connector: 1195701
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way Ring Terminal

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	35	RD/YE	2	Battery Positive Voltage	I	-

X50D FUSE BLOCK - BATTERY X7



Connector Part Information

- Harness Type: Battery Cable
- OEM Connector: 13595268
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way Ring Terminal

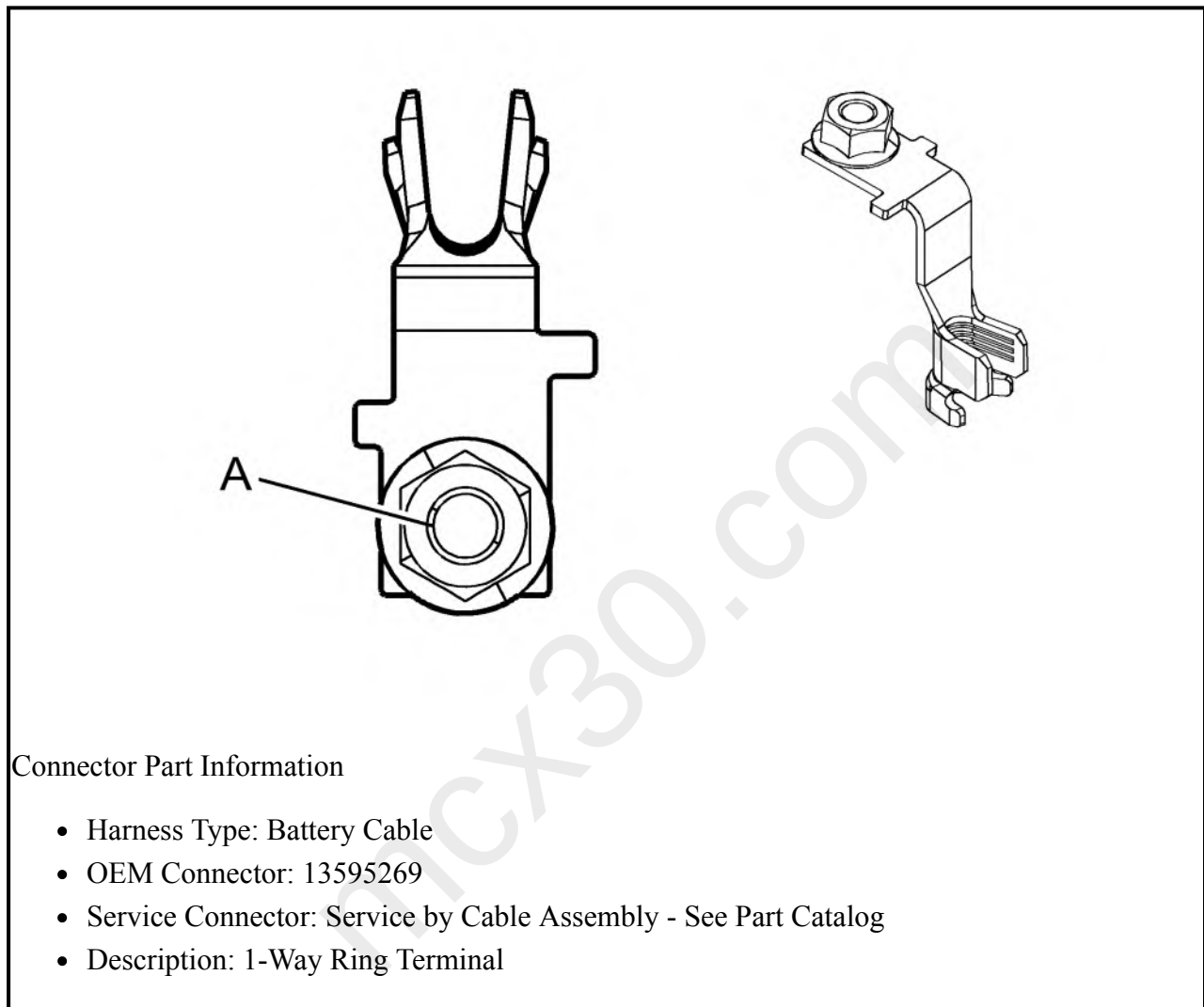
Terminal Part Information

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	25	RD/YE	2	Battery Positive Voltage	I	-

X50D FUSE BLOCK - BATTERY X8



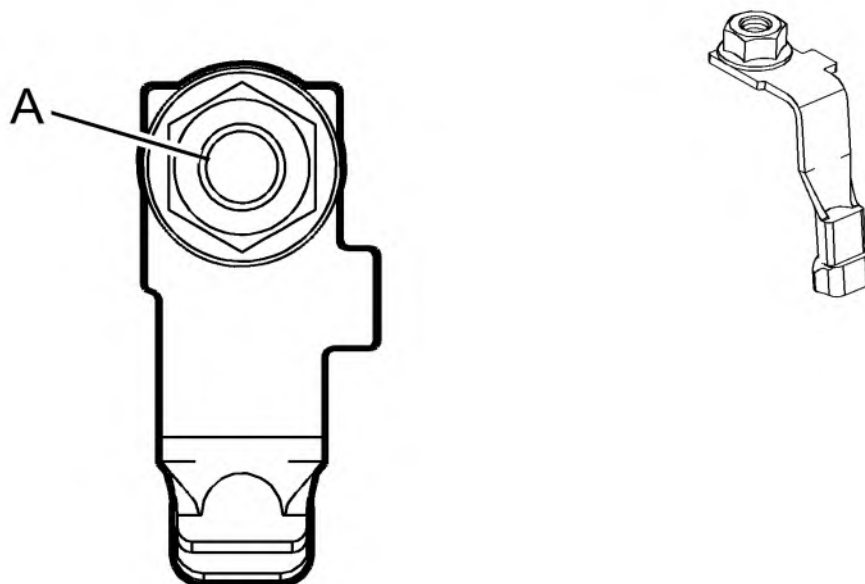
Terminal Part Information

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	16	RD/VT	842	Battery Positive Voltage	I	-

X50D FUSE BLOCK - BATTERY X9





Connector Part Information

- Harness Type: Body
- OEM Connector: 7209-6143-02
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way Ring Terminal

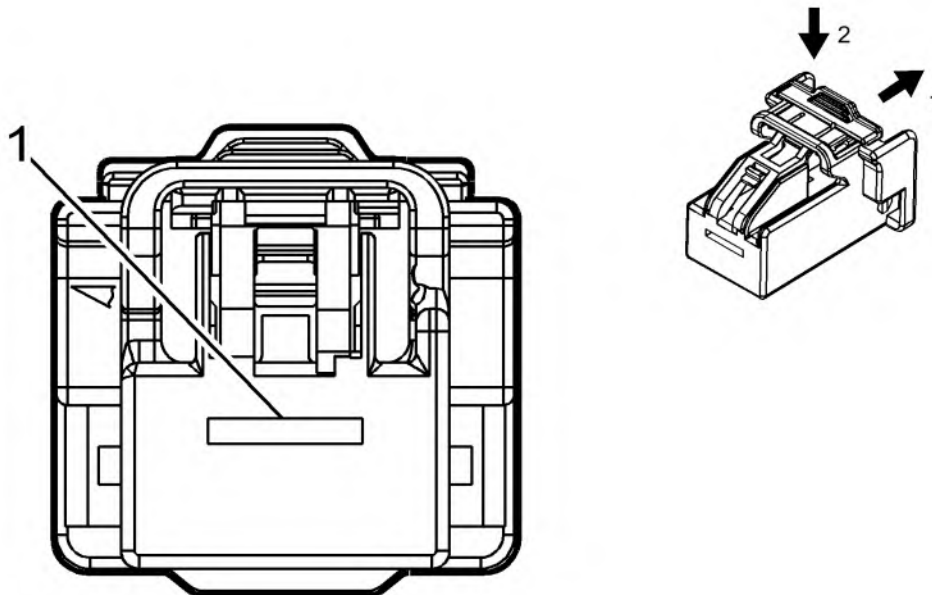
Terminal Part Information

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	10	RD/WH	1040	Battery Positive Voltage	I	C32

X50D FUSE BLOCK - BATTERY X10





Connector Part Information

- Harness Type: Body
- OEM Connector: 13582049
- Service Connector: Service by Harness - See Part Catalog
- Description: 1-Way F 6.3 YESC Series (BK)

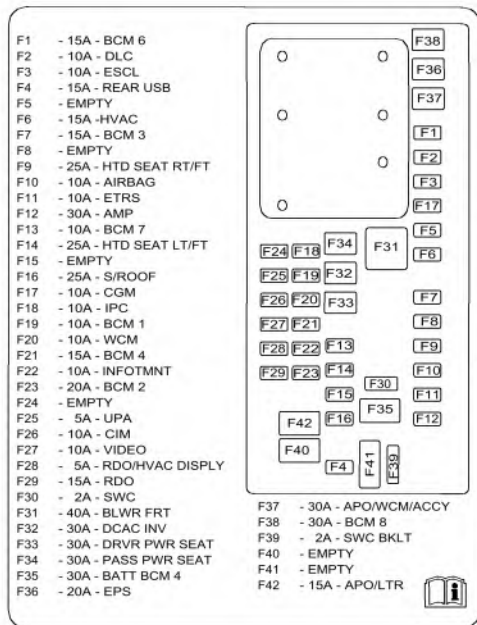
Terminal Part Information

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

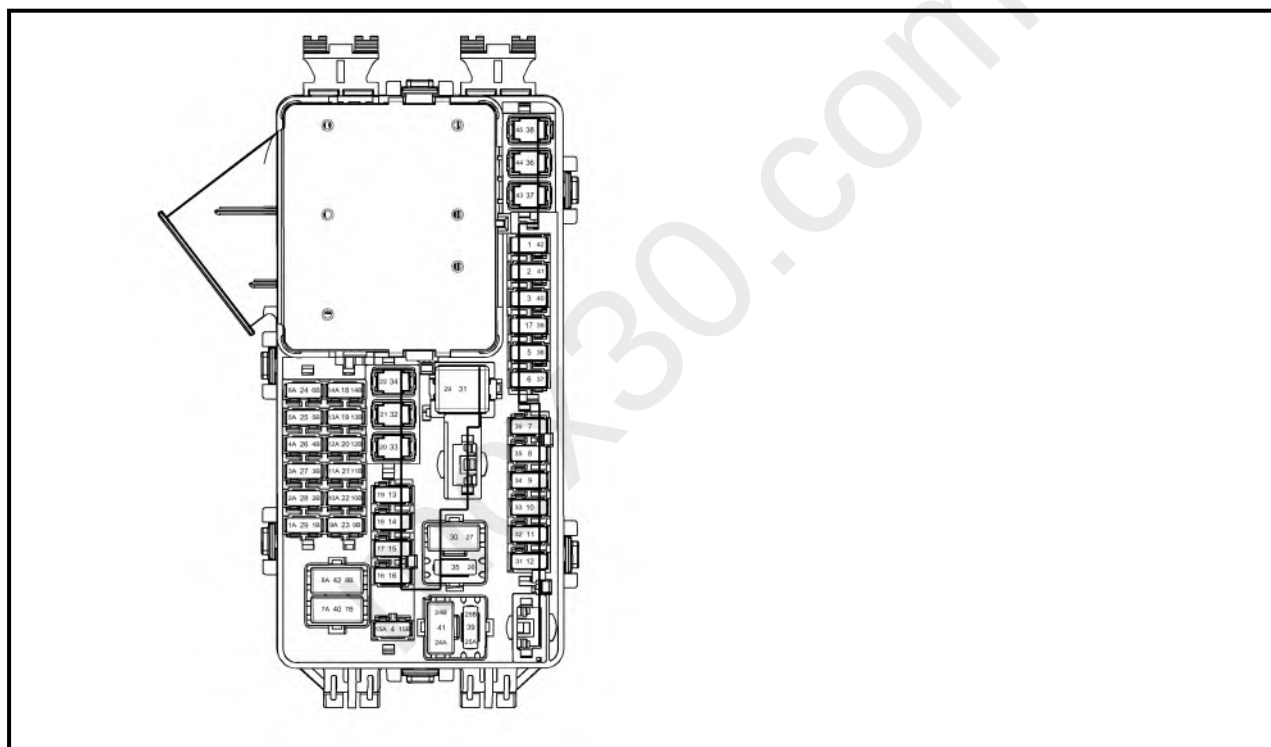
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	RD/WH	2740	Battery Positive Voltage	I	-

X51A FUSE BLOCK - INSTRUMENT PANEL LABEL C1UX





X51A FUSE BLOCK - INSTRUMENT PANEL TOP VIEW



Usage Table

No.	Device Label Name	Device Assigned Name	Rating	Description
F1	BCM 6	F1DA	15A	K9 Body Control Module
F2	DLC	F2DA	10A	X84 Data Link Connector
F3	ESCL	F3DA	10A	K60 Steering Column Lock Module (N06)

No.	Device Label Name	Device Assigned Name	Rating	Description
F4	REAR USB	F4DA	15A	- F12RA fuse - F33RA fuse
F5	EMPTY	F5DA	-	Not Used
F6	HVAC	F6DA	15A	- K33 HVAC Control Module - V1 Air Ionizer (KEM)
F7	BCM 3	F7DA	15A	K9 Body Control Module
F8	EMPTY	F8DA	-	Not Used
F9	HTD SEAT RT/FT	F9DA	25A	K29 Seat Heating Control Module (KA1)
F10	AIRBAG	F10DA	10A	K36 Inflatable Restraint Sensing and Diagnostic Module
F11	ETRS	F11DA	10A	K38 Chassis Control Module (W49)
F12	AMP	F12DA	30A	- T3 Audio Amplifier (UQA) - K108 Active Noise Cancellation Module (UQF)
F13	BCM 7	F13DA	10A	K9 Body Control Module
F14	HTD SEAT LT/FT	F14DA	25A	K29 Seat Heating Control Module (KA1)
F15	EMPTY	F15DA	-	Not Used
F16	S/ROOF	F16DA	25A	M69 Sunroof Motor
F17	CGM	F17DA	10A	K56 Serial Data Gateway Module
F18	IPC	F18DA	10A	P16 Instrument Cluster
F19	BCM 1	F19DA	10A	K9 Body Control Module

No.	Device Label Name	Device Assigned Name	Rating	Description
F20	WCM	F20DA	10A	T22 Mobile Device Wireless Charger Module
F21	BCM 4	F21DA	15A	K9 Body Control Module
F22	INFOTMNT	F22DA	10A	X83 Auxiliary Audio Input (IO5/IO6)
F23	BCM 2	F23DA	20A	K9 Body Control Module
F24	EMPTY	F24DA	-	Not Used
F25	UPA	F25DA	5A	K182 Parking Assist Control Module (UD5?UD7)
F26	CIM	F26DA	10A	K73 Telematics Communication Interface Control Module (UE1/UI3)
F27	VIDEO	F27DA	10A	- K157 Video Processing Control Module (UVH) - K186 Human Machine Interface Control Module Bypass Module (UVH-UDA/UE3/UI3)
F28	RDO/HVAC DISPLY	F28DA	5A	- A26 HVAC Controls - P17 Info Display Module (IO5/IO6)
F29	RDO	F29DA	15A	- A11 Radio - K74 Human Machine Interface Control Module (IO5/IO6)
F30	SWC	F30DA	2A	- S70L Steering Wheel Controls Switch - Left - S70R Steering Wheel Controls Switch - Right - X85 Steering Wheel Air Bag Coil
F31	BLWR FRT	F31DA	40A	M8 Blower Motor
F32	DCAC INV	F32DA	30A	T1 Accessory DC/AC Power Inverter Module (KI6/KI7)

No.	Device Label Name	Device Assigned Name	Rating	Description
F33	DRVR PWR SEAT	F33DA	30A	- K40 Seat Memory Control Module (AAB) - S64D Seat Adjuster Switch - Driver (-AAB)
F34	PASS PWR SEAT	F34DA	30A	S64P Seat Adjuster Switch - Passenger (AQ5)
F35	BATT BCM 4	F35DA	30A	F21DA Fuse
F36	EPS	F36DA	20A	K99 Steering Column Position Control Module (N38)
F37	APO/WCM/ACCY	F37DA	30A	- KR76A Retained Accessory Power Relay 1 - KR76B Retained Accessory Power Relay 2
F38	BCM 8	F38DA	30A	K9 Body Control Module
F39	SWC BKLT	F39DA	2A	- S70L Steering Wheel Controls Switch - Left - S70R Steering Wheel Controls Switch - Right - X85 Steering Wheel Air Bag Coil
F40	EMPTY	F40DA	-	Not Used
F41	EMPTY	F41DA	-	Not Used
F42	APO/LTR	F42DA	15A	- X80D Accessory Power Receptacle - Center Console Compartment (W49) - X80F Accessory Power Receptacle - Front (X88)
Relays				
-	-	KR168 Relay Assembly - Instrument Panel Fuse Box	-	- KR76A Retained Accessory Power Relay 1 - KR76B Retained Accessory Power Relay 2 - KR104A Battery Saver Relay 1

No.	Device Label Name	Device Assigned Name	Rating	Description
Note: Relays listed below are Printed Circuit Board (PCB) relays and are only serviceable by Printed Circuit Board (PCB) Assembly (if available) or Fuse Block Assembly. PCB Relays are not serviceable individually.				
-	-	KR76A Retained Accessory Power Relay 1	-	- F4DA Fuse - F20DA Fuse
-	-	KR76B Retained Accessory Power Relay 2	-	- F42DA Fuse (-DUJ) - F42DA Circuit Breaker (DUJ)
-	-	KR104A Battery Saver Relay 1	-	- F18DA Fuse - F22DA Fuse - F26DA Fuse - F28DA Fuse - F29DA Fuse
Important: Items listed below are diagnostic testing points.				
TP1	Not Used	TP1	-	Not Used
TP2	Not Used	TP2	-	Not Used
TP3	TEST POINT CKT 2172	TP3	-	KR104A Battery Saver Relay 1
TP4	TEST POINT CKT 1701	TP4	-	KR76A Retained Accessory Power Relay 1
TP5	Not Used	TP5	-	Not Used
TP6	TEST POINT CKT 42	TP6	-	KR76B Retained Accessory Power Relay 2

X51A FUSE BLOCK - INSTRUMENT PANEL BOTTOM VIEW C1UX





Connector Part Information

- Harness Type: Instrument Panel
- OEM Connector: 7254-7865
- Service Connector: Service by Component Assembly - See Part Catalog
- Description: 87-Way Fuse Block

Terminal Part Information

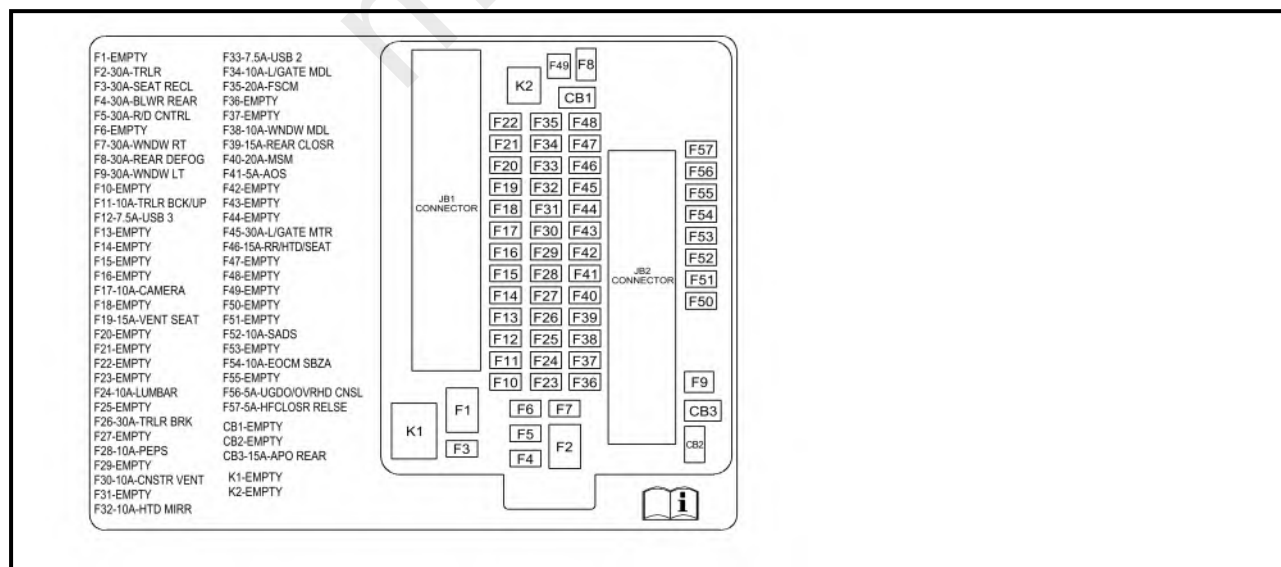
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575823	J-35616-5 (PU)	J-38125-11A	Not Required	Not Required	Not Required	Not Required
II	13575824	J-35616-5 (PU)	J-38125-11A	Not Required	Not Required	Not Required	Not Required
III	13575832	J-35616-4A (PU)	J-38125-11A	Not Required	Not Required	Not Required	Not Required
IV	13575838	J-35616-35 (VT)	J-38125-11A	Not Required	Not Required	Not Required	Not Required
V	13575839	J-35616-35 (VT)	J-38125-11A	Not Required	Not Required	Not Required	Not Required
VI	13575850	J-35616-14 (GN)	J-38125-557	Not Required	Not Required	Not Required	Not Required
VII	13578908	J-35616-5 (PU)	J-38125-11A	Not Required	Not Required	Not Required	Not Required
VIII	13578928	J-35616-42 (RD)	J-38125-11A	Not Required	Not Required	Not Required	Not Required
IX	13580022	J-35616-43 (RD)	J-38125-11A	Not Required	Not Required	Not Required	Not Required
X	19119959	J-35616-43 (RD)	J-38125-553	Not Required	Not Required	Not Required	Not Required
XI	19354362	J-35616-42 (RD)	J-38125-11A	Not Required	Not Required	Not Required	Not Required
XII	19368264	J-35616-35 (VT)	J-38125-11A	Not Required	Not Required	Not Required	Not Required
XIII	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
16	2.5	RD/GY	3540	Battery Positive Voltage	XII	-
17	-	-	-	Not Occupied	-	-
18	2.5	RD/GY	1342	Battery Positive Voltage	XII	-
19	0.5	RD/GN	3840	Battery Positive Voltage	V	-
20	2	RD/YE	5040	Battery Positive Voltage	II	-
21	2.5	BN/BK	4629	DC/AC Inverter Control	II	-
22	2	RD/BN	1440	Battery Positive Voltage	II	-
26	3	RD/BU	42	Battery Positive Voltage	X	-
27	0.35	RD/WH	5440	Battery Positive Voltage	XI	-
28	10	RD/BU	42	Battery Positive Voltage	XIII	-
29	4	RD/VT	542	Battery Positive Voltage	IX	-
30	10	RD/VT	842	Battery Positive Voltage	XIII	-
31	2.5	RD/YE	3740	Battery Positive Voltage	XII	-
32	0.5	RD/GN	1840	Battery Positive Voltage	V	-
33	0.5	RD/GN	4440	Battery Positive Voltage	V	-
34	2.5	RD/YE	1442	Battery Positive Voltage	XII	-
35	-	-	-	Not Occupied	-	-
36	1	RD/GY	2140	Battery Positive Voltage	V	-
37	0.5	RD/VT	3340	Battery Positive Voltage	V	-
38	-	-	-	Not Occupied	-	-
39	0.35	RD/WH	140	Battery Positive Voltage	IV	-
40	0.35	RD/GY	4140	Battery Positive Voltage	IV	-

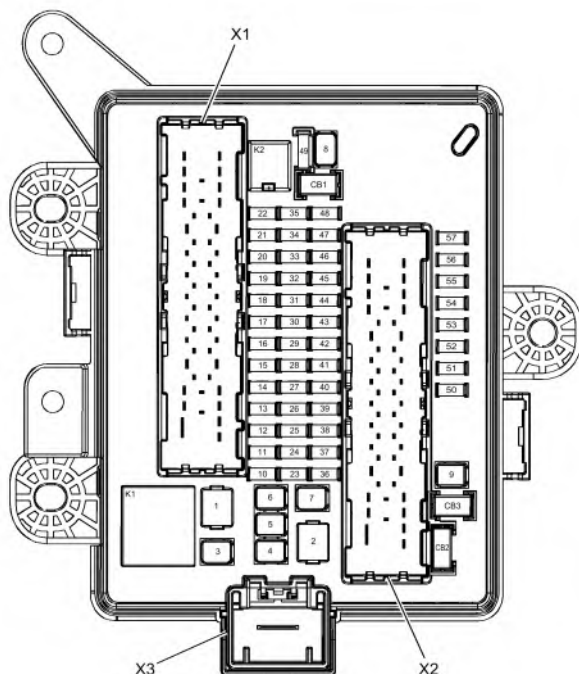
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
41	0.5	RD/WH	140	Battery Positive Voltage	V	-
42	1	RD/WH	3440	Battery Positive Voltage	V	-
43	3	RD/BU	42	Battery Positive Voltage	VII	-
44	1	RD/BN	3640	Battery Positive Voltage	I	-
45	2	RD/VT	4040	Battery Positive Voltage	II	-
1A	2.5	RD/GN	40	Battery Positive Voltage	XII	-
1B	0.75	RD/VT	340	Battery Positive Voltage	V	-
2A	2.5	RD/GN	40	Battery Positive Voltage	XII	-
2B	0.35	RD/BU	3240	Battery Positive Voltage	IV	-
3A	0.5	RD/GN	2173	12V Regulated Supply Voltage 2	V	-
3B	2.5	RD/GN	2173	12V Regulated Supply Voltage 2	XII	-
4A	2.5	RD/GN	40	Battery Positive Voltage	XII	-
4B	0.5	RD/YE	740	Battery Positive Voltage	V	-
5A	0.35	RD/GN	3140	Battery Positive Voltage	IV	-
5B	2.5	RD/GN	2173	12V Regulated Supply Voltage 2	XII	-
6A	-	-	-	Not Occupied	-	-
6B	-	-	-	Not Occupied	-	-
7A	-	-	-	Not Occupied	-	-
7B	-	-	-	Not Occupied	-	-
8A	1.5	VT	1001	Retained Accessory Power Ignition	XI	-
8B	2	VT	1701	Retained Accessory Power Ignition	X	-
9A	2.5	RD/GN	2173	12V Regulated Supply Voltage 2	XII	-
9B	1	RD/BN	2240	Battery Positive Voltage	V	-
10A	2.5	RD/GN	40	Battery Positive Voltage	XII	-
10B	0.35	RD/VT	1640	Battery Positive Voltage	IV	-
11A	1	RD/BU	2540	Battery Positive Voltage	V	-
11B	3	RD/BU	42	Battery Positive Voltage	III	-
12A	2	VT	1701	Retained Accessory Power Ignition	XII	-
12B	0.75	VT	4601	Retained Accessory Power Fused Control	V	-
13A	0.75	RD/WH	2740	Battery Positive Voltage	V	-
13B	2.5	RD/YE	2172	12V Regulated Supply Voltage 1	XII	-
14A	2.5	RD/GN	40	Battery Positive Voltage	XII	-
14B	0.35	RD/GY	2840	Battery Positive Voltage	IV	-
15A	0.75	VT	2101	Retained Accessory Power Fuse Ignition	V	-
15B	2	VT	1701	Retained Accessory Power Ignition	XII	-
23A	2	VT	1701	Retained Accessory Power Ignition	XII	-
23AA	0.35	BK	1650	Ground	VI	-
23AB	-	-	-	Not Occupied	-	-
23B	-	-	-	Not Occupied	-	-
23C	-	-	-	Not Occupied	-	-
23D	-	-	-	Not Occupied	-	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
23E	-	-	-	Not Occupied	-	-
23F	-	-	-	Not Occupied	-	-
23G	3	RD/YE	2172	12V Regulated Supply Voltage 1	III	-
23H	0.35	VT/BU	3263	Logistic Mode Relay Open Control	VI	-
23J	0.35	GY/VT	3264	Logistic Mode Relay Close Control	VI	-
23K	2.5	RD/GN	40	Battery Positive Voltage	XII	-
23L	0.35	GY/GN	4083	RAP Relay 2 Coil Control	VI	-
23M	-	-	-	Not Occupied	-	-
23N	2	RD/BU	42	Battery Positive Voltage	XII	-
23P	-	-	-	Not Occupied	-	-
23Q	-	-	-	Not Occupied	-	-
23R	0.35	GY/GN	4083	RAP Relay 2 Coil Control	VI	-
23S	-	-	-	Not Occupied	-	-
23T	-	-	-	Not Occupied	-	-
23U	2	RD/BU	42	Battery Positive Voltage	VIII	-
23V	-	-	-	Not Occupied	-	-
23W	2	VT	1701	Retained Accessory Power Ignition	VIII	-
23X	-	-	-	Not Occupied	-	-
23Y	-	-	-	Not Occupied	-	-
23Z	-	-	-	Not Occupied	-	-
24A	-	-	-	Not Occupied	-	-
24B	-	-	-	Not Occupied	-	-
25A	0.35	YE	6817	LED Backlight Dimming Control	XI	-
25B	0.35	BN	6817	LED Backlight Dimming Control	XI	-

X53A FUSE BLOCK - REAR BODY LABEL



X53A FUSE BLOCK - REAR BODY TOP VIEW



Usage Table

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
1	EMPTY	F1RA	-	Not Used
2	TRLR	F2RA	30A	X88 Trailer Connector (V92)
3	SEAT RECL	F3RA	30A	K169 Folding Seat Control Module - 3rd Row (AS8)
4	BLWR REAR	F4RA	30A	K8A Blower Motor Control Module - Auxiliary
5	R/D CNTRL	F5RA	30A	K47 Rear Differential Clutch Control Module (F48)
6	EMPTY	F6RA	-	Not Used
7	WNDW RT	F7RA	30A	- S79P Window Switch - Passenger - S79RR Window Switch - Right Rear
8	REAR DEFOG	F8RA	30A	E18 Rear Defogger Grid

No.	Device Label Name	Device Assigned Name	Rating	Description
9	WNDW LT	F9RA	30A	- M35D Window Motor Module - Driver (-DR9) - S79D Window Switch - Driver (DR9) - S79LR Window Switch - Left Rear
10	EMPTY	F10RA	-	Not Used
11	TRLR BCK/UP	F11RA	10A	X88 Trailer Connector (V92)
12	USB 3	F12RA	7.5	- X92RL USB Receptacle - Rear Compartment Left - X92RR USB Receptacle - Rear Compartment Right
13	EMPTY	F13RA	-	Not Used
14	EMPTY	F14RA	-	Not Used
15	EMPTY	F15RA	-	Not Used
16	EMPTY	F16RA	-	Not Used
17	CAMERA	F17RA	10A	B87 Rearview Camera (-UVH)
18	EMPTY	F18RA	-	Not Used
19	VENT SEAT	F19RA	15A	- M73A Seat Blower Motor - Driver Back (KU9) - M73B Seat Blower Motor - Passenger Back (KU9) - M73C Seat Blower Motor - Driver Cushion (KU9) - M73D Seat Blower Motor - Passenger Cushion (KU9)
20	EMPTY	F20RA	-	Not Used
21	EMPTY	F21RA	-	Not Used
22	EMPTY	F22RA	-	Not Used

No.	Device Label Name	Device Assigned Name	Rating	Description
23	EMPTY	F23RA	-	Not Used
24	LUMBAR	F24RA	10A	- S64D Seat Adjuster Switch - Driver (AHT) - S65P Seat Lumbar Support Switch - Passenger (AHT with AQ5)
25	EMPTY	F25RA	-	Not Used
26	TRLR BRK	F26RA	30A	W24 Blunt Cut - Trailer Brakes Provision (V92)
27	EMPTY	F27RA	-	Not Used
28	PEPS	F28RA	10A	K84 Keyless Entry Control Module
29	EMPTY	F29RA	-	Not Used
30	CNSTR VENT	F30RA	10A	Q13 Evaporative Emission Vent Solenoid Valve (-CZ3)
31	EMPTY	F31RA	-	Not Used
32	HTD MIR	F32RA	10A	KR4B Outside Rearview Mirror Heater Relay
33	USB 2	F33RA	7.5	X92C USB Receptacle - Center Console Rear
34	L/GATE MDL	F34RA	10A	K39 Liftgate Control Module (TB5/TC2)
35	FSCM	F35RA	20A	- KR23A Fuel Pump Relay - K111 Fuel Pump Driver Control Module
36	EMPTY	F36RA	-	Not Used
37	EMPTY	F37RA	-	Not Used

No.	Device Label Name	Device Assigned Name	Rating	Description
38	WNDW MDL	F38RA	10A	S79D Window Switch - Driver (-DR9)
39	REAR CLOSR	F39RA	15A	Not Used
40	MSM	F40RA	20A	K40 Seat Memory Control Module (AAB with AHT)
41	AOS	F41RA	5A	K85 Passenger Presence Module
42	EMPTY	F42RA	-	Not Used
43	EMPTY	F43RA	-	Not Used
44	EMPTY	F44RA	-	Not Used
45	L/GATE MTR	F45RA	30A	K39 Liftgate Control Module (TB5/TC2)
46	RR/HTD/SEAT	F46RA	15A	K29R Seat Heating Control Module - Rear (KA6)
47	EMPTY	F47RA	-	Not Used
48	EMPTY	F48RA	-	Not Used
49	EMPTY	F49RA	-	Not Used
50	EMPTY	F50RA	-	Not Used
51	EMPTY	F51RA	-	Not Used
52	SADS	F52RA	10A	- K19 Suspension Control Module (F45) - K47 Rear Differential Clutch Control Module (F48)
53	EMPTY	F53RA	-	Not Used

No.	Device Label Name	Device Assigned Name	Rating	Description
54	EOCM SBZA	F54RA	10A	- B174W Frontview Camera - Windshield (UEU) - B218L Side Object Sensor Module - Left (UKC) - B218R Side Object Sensor Module - Right (UKC) - B233B Radar Sensor Module - Long Range (UGN) - K124 Active Safety Control Module (UGN)
55	EMPTY	F55RA	-	Not Used
56	UGDO/OVRHD CNSL	F56RA	5A	- A98 Front Overhead Console Assembly - E37M Dome/Reading Lamps - Middle - E37R Dome/Reading Lamps - Rear - S25 Garage Door Opener (UG1)
57	HFCLOSR RELSE	F57RA	5A	K171 Hands-Free Liftgate Sensor Control Module

Circuit Breakers

CB1	EMPTY	F1RB	-	Not Used
CB2	EMPTY	F2RB	-	Not Used
CB3	APO REAR	F3RB	15A	X80C Accessory Power Receptacle - Cargo

Relays

K1	EMPTY	-	-	Not Used
K2	EMPTY	-	-	Not Used

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

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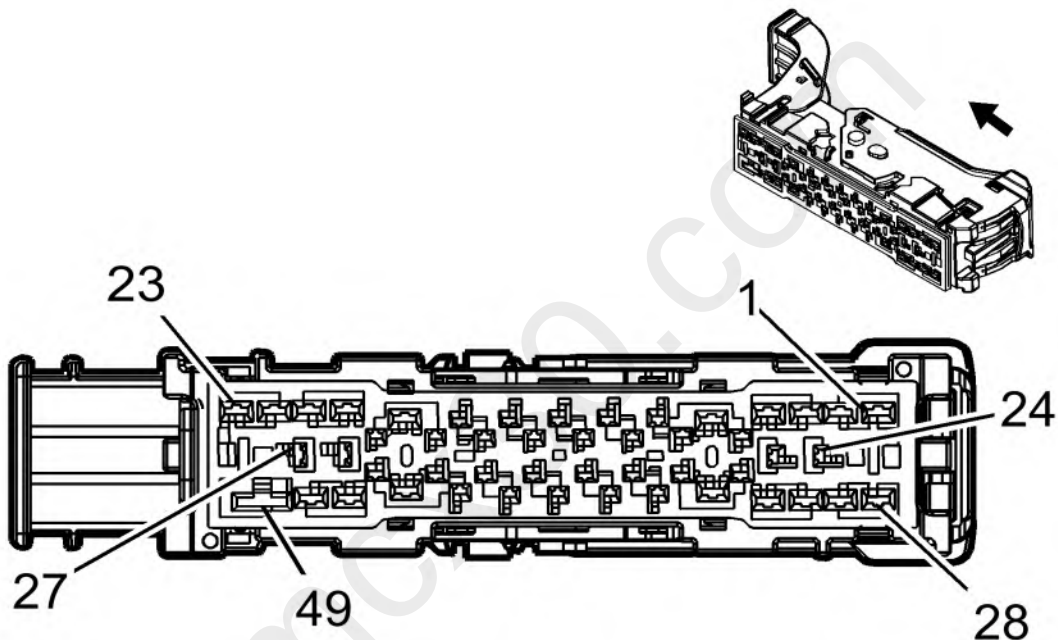
No.	Device Label Name	Device Assigned Name	Rating	Description
-	-	KR4B Outside Rearview Mirror Heater Relay	-	• A9A Outside Rearview Mirror - Driver • A9B Outside Rearview Mirror - Passenger • E17D Outside Rearview Mirror Glass - Driver • E17P Outside Rearview Mirror Glass - Passenger
-	-	KR5 Rear Defogger Relay	-	• F8RA Fuse • F48RA Fuse
-	-	KR61 Trailer Backup Lamps Relay	-	• F11RA Fuse (V92)
-	-	KR95A Liftgate Unlatch Relay	-	• M30 Liftgate Latch
-	-	KR104B Battery Saver Relay 2	-	• F52RA Fuse • F54RA Fuse • F56RA Fuse • F57RA Fuse
-	-	KR114 Door Dead Lock Relay	-	• Not Used
-	-	KR124 Trailer Ignition Power Relay	-	• F21RA Fuse
-	-	KR132 Fuel Fill Door Lock Relay	-	• M97 Fuel Fill Door Lock Actuator (N08)

Important: Items listed below are diagnostic testing points.

TP1	TEST POINT CKT 6800	TP1	-	• KR132 Fuel Fill Door Lock Relay
TP2	TEST POINT CKT 5911	TP2	-	• KR132 Fuel Fill Door Lock Relay
TP3	TEST POINT CKT -	TP3	-	• KR114 Door Dead Lock Relay
TP4	TEST POINT CKT -	TP4	-	• KR114 Door Dead Lock Relay
TP5	TEST POINT CKT 2267	TP5	-	• KR4B Outside Rearview Mirror Heater Relay

No.	Device Label Name	Device Assigned Name	Rating	Description
TP6	TEST POINT CKT -	TP6	-	• KR4B Outside Rearview Mirror Heater Relay
TP7	TEST POINT CKT 1093	TP7	-	• KR4B Outside Rearview Mirror Heater Relay
TP8	TEST POINT CKT -	TP8	-	• Not Used
TP9	TEST POINT CKT -	TP9	-	• Not Used

X53A FUSE BLOCK - REAR BODY X1



Connector Part Information

- Harness Type: Body
- OEM Connector: 23161963
- Service Connector: 19352071
- Description: 49-Way F 1.5, 2.8, 6.3 Kaizen Series (BK)

Terminal Part Information

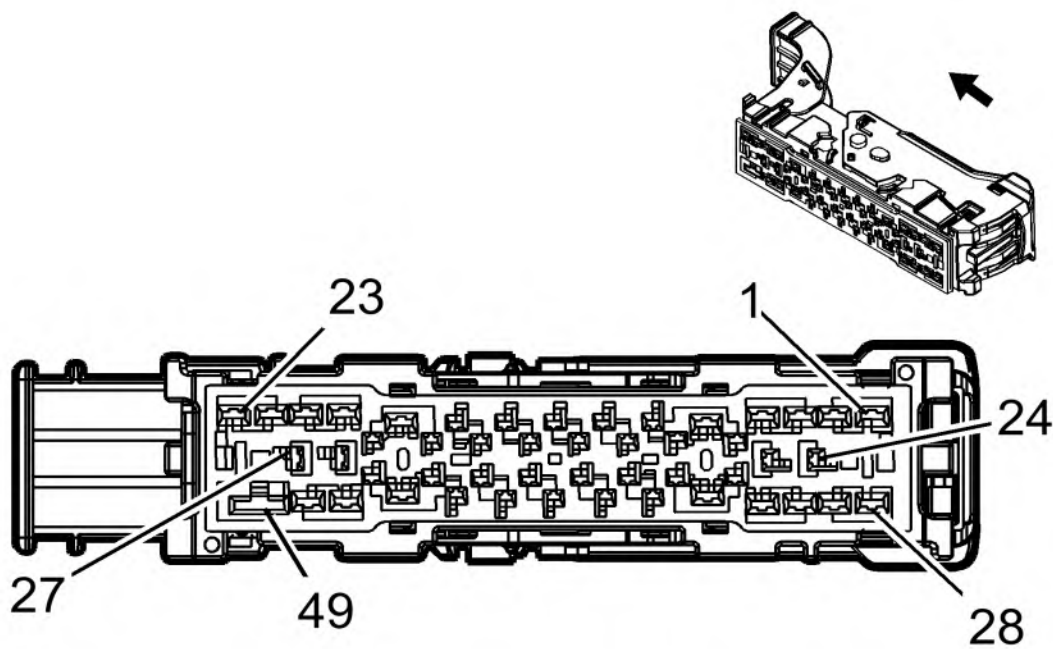
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575839	J-35616-35 (VT)	J-38125-11A	7116-4110-02	Yazaki 9	E	C
II	13575839	J-35616-35 (VT)	J-38125-11A	7116-4111-02	Yazaki 9	E	A
III	13575850	J-35616-14 (GN)	J-38125-557	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
IV	19368264	J-35616-35 (VT)	J-38125-11A	7116-4112-02	Yazaki 9	C	D

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	BN/VT	293	Rear Defog Element Control	IV	-
2	-	-	-	Not Occupied	-	-
3	2.5	RD/VT	2640	Battery Positive Voltage	IV	-
4 - 6	-	-	-	Not Occupied	-	-
7	0.35	RD/BU	840	Battery Positive Voltage	III	TB5/TC2
8	-	-	-	Not Occupied	-	-
9	0.5	VT	2101	Retained Accessory Power Fuse Ignition	III	-
10	0.5	VT/WH	639	Run/Crank Ignition 1 Voltage	III	KU9
11	0.5	VT/BK	739	Run/Crank Ignition 1 Voltage	III	KU9
12	-	-	-	Not Occupied	-	-
13	0.75	RD/GN	2440	Battery Positive Voltage	III	NTB/NUB
14	0.35 0.35	VT/GN VT/GN	1339 1339	Run/Crank Ignition 1 Voltage Run/Crank Ignition 1 Voltage	III III	-UVH UVH
15 - 17	-	-	-	Not Occupied	-	-
18	0.75	VT/BK	1639	Run/Crank Ignition 1 Voltage	II	-
19	0.5	VT	2101	Retained Accessory Power Fuse Ignition	III	-
20	-	-	-	Not Occupied	-	-
21	2	RD/BU	42	Battery Positive Voltage	IV	V92
22 - 26	-	-	-	Not Occupied	-	-
27	0.75	WH/GN	1624	Trailer Backup Lamp Control	III	V92
28	0.5	VT	1093	Rear Defog Element Control	I	-
29 - 31	-	-	-	Not Occupied	-	-
32	0.35	BN/VT	193	Rear Defog Relay Control	III	-
33 - 35	-	-	-	Not Occupied	-	-
36	0.35	BN/YE	186	Fuel Door Lock Relay Control	III	N08
37	-	-	-	Not Occupied	-	-
38	0.5	VT	1093	Rear Defog Element Control	III	-
39 - 40	-	-	-	Not Occupied	-	-
41	0.75	GY	5911	Door Lock Actuator Lock Control 2	III	-
42	-	-	-	Not Occupied	-	-
43	0.75	BU	6800	Fuel Door Lock/Unlock 1 Signal	III	N08
44 - 45	-	-	-	Not Occupied	-	-
46	0.5 0.5	BU/BN BU/BN	38 38	Backup Lamp Relay Control Backup Lamp Relay Control	III III	V92 X88
47	-	-	-	Not Occupied	-	-
48	2.5	RD/BU	1240	Battery Positive Voltage	IV	AS8
49	-	-	-	Not Occupied	-	-

X53A FUSE BLOCK - REAR BODY X2

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Connector Part Information

- Harness Type: Body
- OEM Connector: 23161962
- Service Connector: 19352072
- Description: 49-Way F 1.5, 2.8, 6.3 Kaizen Series (GY)

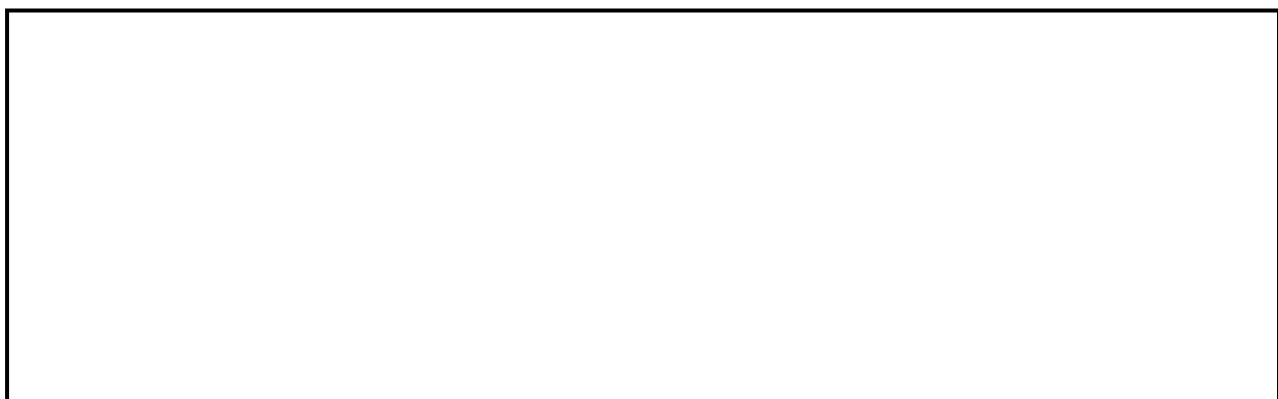
Terminal Part Information

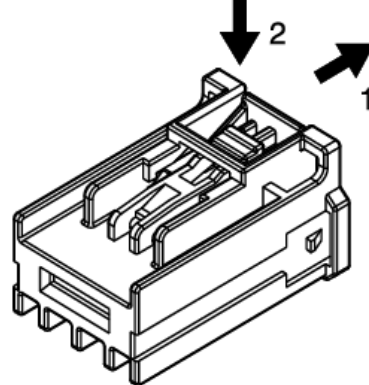
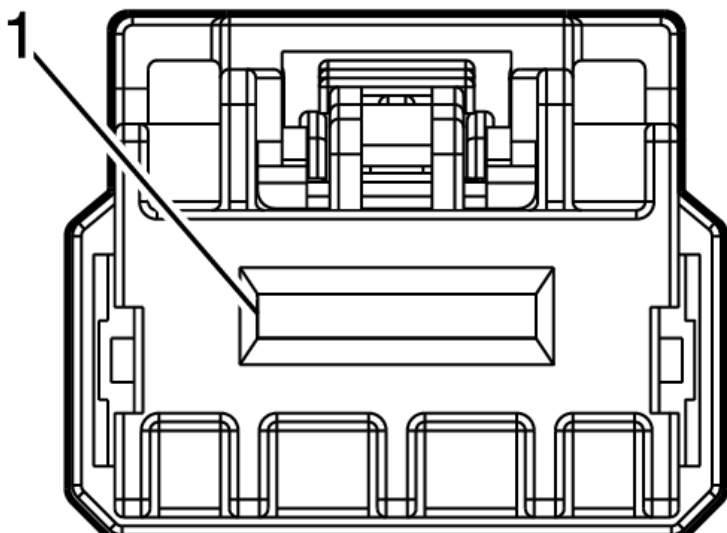
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575832	J-35616-4A (PU)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
II	13575839	J-35616-35 (VT)	J-38125-11A	7116-4111-02	Yazaki 9	C	A
III	13575850	J-35616-14 (GN)	J-38125-557	Not Available	Not Available	Not Available	Not Available
IV	19368264	J-35616-35 (VT)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
V	19368887	J-35616-42 (RD)	J-38125-11A	Not Available	Not Available	Not Available	Not Available

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 4	-	-	-	Not Occupied	-	-
5	0.5	RD/BN	4940	Battery Positive Voltage	III	-
6	-	-	-	Not Occupied	-	-
7	0.5	RD/GY	1740	Battery Positive Voltage	III	-
8	0.35	RD/WH	1340	Battery Positive Voltage	III	TC2
9	-	-	-	Not Occupied	-	-
10	0.35	RD/BU	3940	Battery Positive Voltage	III	-
11	-	-	-	Not Occupied	-	-
12	0.35	GY/VT	3264	Logistic Mode Relay Close Control	III	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
13	0.35	VT/BU	3263	Logistic Mode Relay Open Control	III	-
14	0.35	YE	5704	Endgate Latch Relay Coil Control	III	-
15	0.35	GN/BN	5706	Endgate Latch Relay Control	III	-
16	0.75	BU/WH	6128	Rear Closure Unlatch Motor Unlatch Control	III	-
17	0.75	RD/YE	5040	Battery Positive Voltage	III	-
18	2.5	RD/BU	1842	Battery Positive Voltage	IV	-
19	-	-	-	Not Occupied	-	-
20	1.5	RD/BN	4940	Battery Positive Voltage	IV	-
21	-	-	-	Not Occupied	-	-
22	2.5	RD/BU	1542	Battery Positive Voltage	IV	F48
23	2.5	RD/GY	1740	Battery Positive Voltage	IV	W49
	2.5	RD/GY	1740	Battery Positive Voltage	IV	X88
24 - 28	-	-	-	Not Occupied	-	-
29	1	RD/WH	4740	Battery Positive Voltage	II	KA6
30	4	RD/GN	1540	Battery Positive Voltage	I	TB5/TC2
31	-	-	-	Not Occupied	-	-
32	0.35	VT	1301	Retained Accessory Power Fuse Control	III	-
33	-	-	-	Not Occupied	-	-
34	0.5	BK	2150	Ground	III	-
35	0.35	RD/WH	2040	Battery Positive Voltage	III	-
36	-	-	-	Not Occupied	-	-
37	1	RD/GN	5140	Battery Positive Voltage	III	AHT+AAB
38	0.35	RD/YE	4340	Battery Positive Voltage	III	-
39	-	-	-	Not Occupied	-	-
40	0.35	BN/VT	193	Rear Defog Relay Control	III	-
41	0.35	RD/VT	1940	Battery Positive Voltage	III	W49
	0.35	RD/VT	1940	Battery Positive Voltage	III	X88
42	-	-	-	Not Occupied	-	-
43	0.35	VT	2401	Retained Accessory Power Fuse Ignition	III	-
44	-	-	-	Not Occupied	-	-
45	2.5	RD/BU	1842	Battery Positive Voltage	IV	-
46	-	-	-	Not Occupied	-	-
47	2.5	RD/WH	4042	Battery Positive Voltage	IV	-
48	2.5	RD/BU	840	Battery Positive Voltage	IV	-
49	3	RD/GN	742	Battery Positive Voltage	V	V92

X53A FUSE BLOCK - REAR BODY X3





Connector Part Information

- Harness Type: Body
- OEM Connector: 13594183
- Service Connector: Service by Harness - See Part Catalog
- Description: 1-Way F 14.5 HC Series (BK)

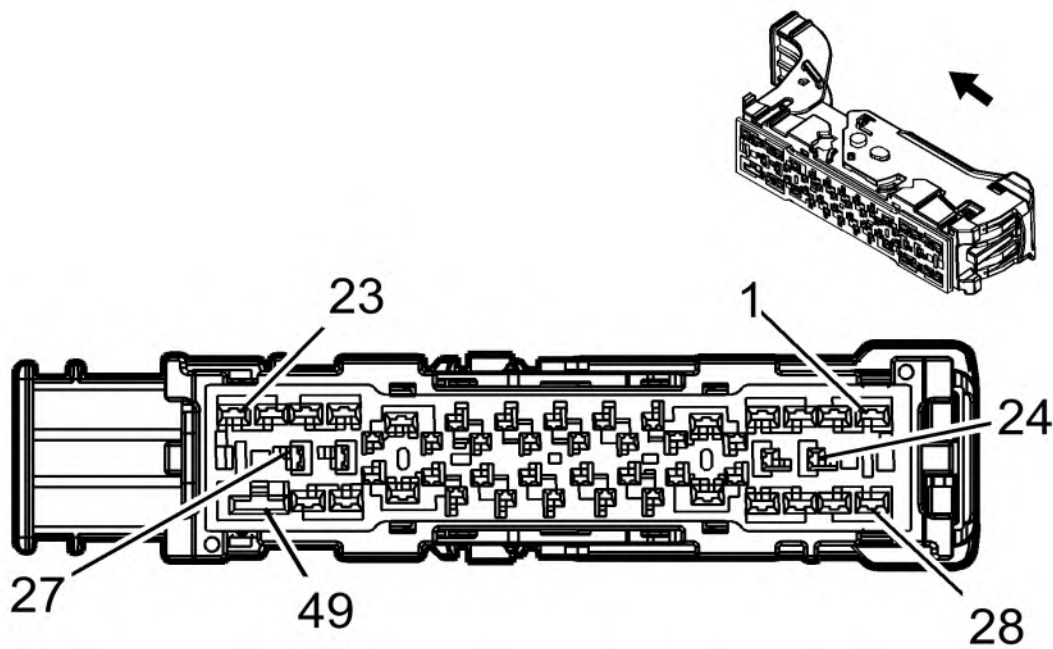
Terminal Part Information

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	20	RD/VT	1242	Battery Positive Voltage	I	-

X53A FUSE BLOCK - REAR BODY X8





Connector Part Information

- Harness Type: Body
- OEM Connector: 7289-3997-40
- Service Connector: 19352072
- Description: 49-Way F 1.5, 2.8, 6.3 Kaizen 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	13575835	J-35616-42 (RD)	J-38125-11A	7116-4122-02	Yazaki 10	A	B
II	13575838	J-35616-35 (VT)	J-38125-11A	7116-4110-02	Yazaki 9	E	C
III	13575838	J-35616-35 (VT)	J-38125-11A	7116-4111-02	Yazaki 9	C	A
IV	13575839	J-35616-35 (VT)	J-38125-11A	7116-4112-02	Yazaki 9	C	D
V	13575839	J-35616-35 (VT)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
VI	13575850	J-35616-2A (GY)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
VII	13578892	J-35616-2A (GY)	J-38125-11A	Not Available	Not Available	Not Available	Not Available

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 4	-	-	-	Not Occupied	-	-
5	0.5	RD/BN	4940	Battery Positive Voltage	VI	-
6	0.5	RD/GN	3140	Battery Positive Voltage	II	-
7	0.5	RD/GY	1740	Battery Positive Voltage	VI	-
8	0.35	RD/BU	4540	Battery Positive Voltage	VI	-
9	-	-	-	Not Occupied	-	-
10	0.35	RD/BU	3940	Battery Positive Voltage	VI	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
11	-	-	-	Not Occupied	-	-
12	0.35	GY/PU	3264	Logistic Mode Relay Close Control	VI	VG9
13	0.35	PU/BU	3263	Logistic Mode Relay Open Control	VI	VG9
14 - 16	-	-	-	Not Occupied	-	-
17	0.35	RD/BU	5240	Battery Positive Voltage	VI	AAB
18	2.5	RD/BU	1842	Battery Positive Voltage	IV	-
19	-	-	-	Not Occupied	-	-
20	1.5	RD/BN	4940	Battery Positive Voltage	V	-
21	-	-	-	Not Occupied	-	-
22	2.5	RD/BU	1542	Battery Positive Voltage	IV	F48
23	2.5	RD/GY	1740	Battery Positive Voltage	IV	CJ4
24	0.5	PU/BU	7598	Glass Breakage Sensor Signal 2	VI	UTR
25 - 28	-	-	-	Not Occupied	-	-
29	1	RD/WH	4740	Battery Positive Voltage	III	KA6
30	2.5	RD/GN	1540	Battery Positive Voltage	IV	TB5
31 - 32	-	-	-	Not Occupied	-	-
33	2.5	RD/PU	4640	Battery Positive Voltage	IV	U4G
34	1.5	BK	2150	Ground	VII	-
35	0.35	RD/WH	2040	Battery Positive Voltage	VI	-
36	-	-	-	Not Occupied	-	-
37	1	RD/GN	5140	Battery Positive Voltage	VI	AAB
38	0.5	RD/YE	4340	Battery Positive Voltage	VI	-
39	-	-	-	Not Occupied	-	-
40	0.35	BN/PU	193	Rear Defog Relay Control	VI	-
41	0.5	RD/PU	1940	Battery Positive Voltage	VI	-
42 - 44	-	-	-	Not Occupied	-	-
45	2.5	RD/BU	1842	Battery Positive Voltage	IV	-
46	-	-	-	Not Occupied	-	-
47	2.5	RD/WH	4042	Battery Positive Voltage	IV	-
48	2.5	RD/WH	4042	Battery Positive Voltage	IV	-
49	3	RD/GN	742	Battery Positive Voltage	I	-