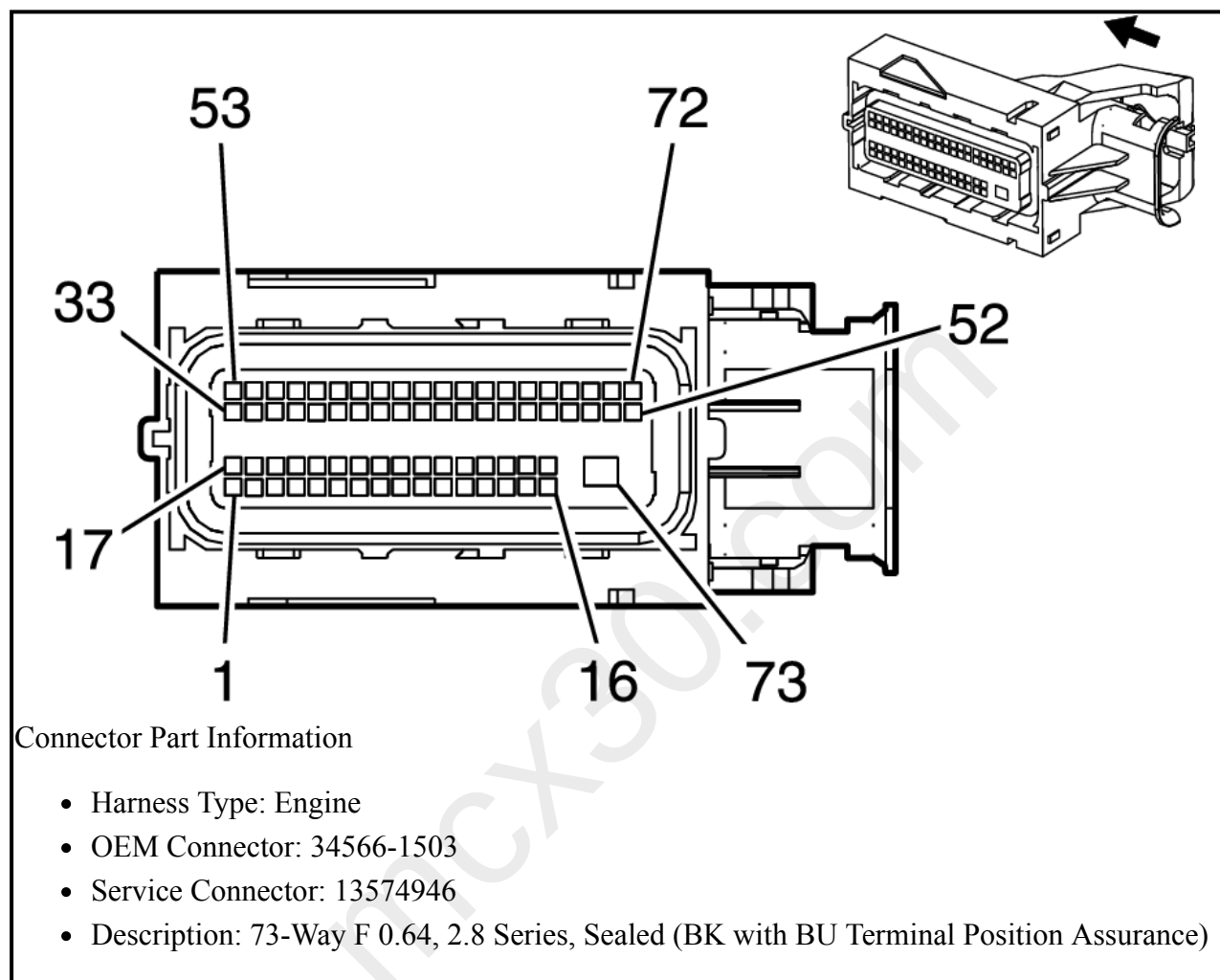


2017 ELECTRICAL**Wiring Systems and Power Management - Component Locator - Component Connector
End Views (Buick) - Encore****COMPONENT CONNECTOR END VIEWS (BUICK)****K20 ENGINE CONTROL MODULE X1 (LE2)****Terminal Part Information**

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575812	J-35616-64B (LT BU)	J-38125-213	Not Available	Not Available	Not Available	Not Available
II	13576392	J-35616-4A (PU)	J-38125-11A	7116-4152-02	Yazaki 9	A	5

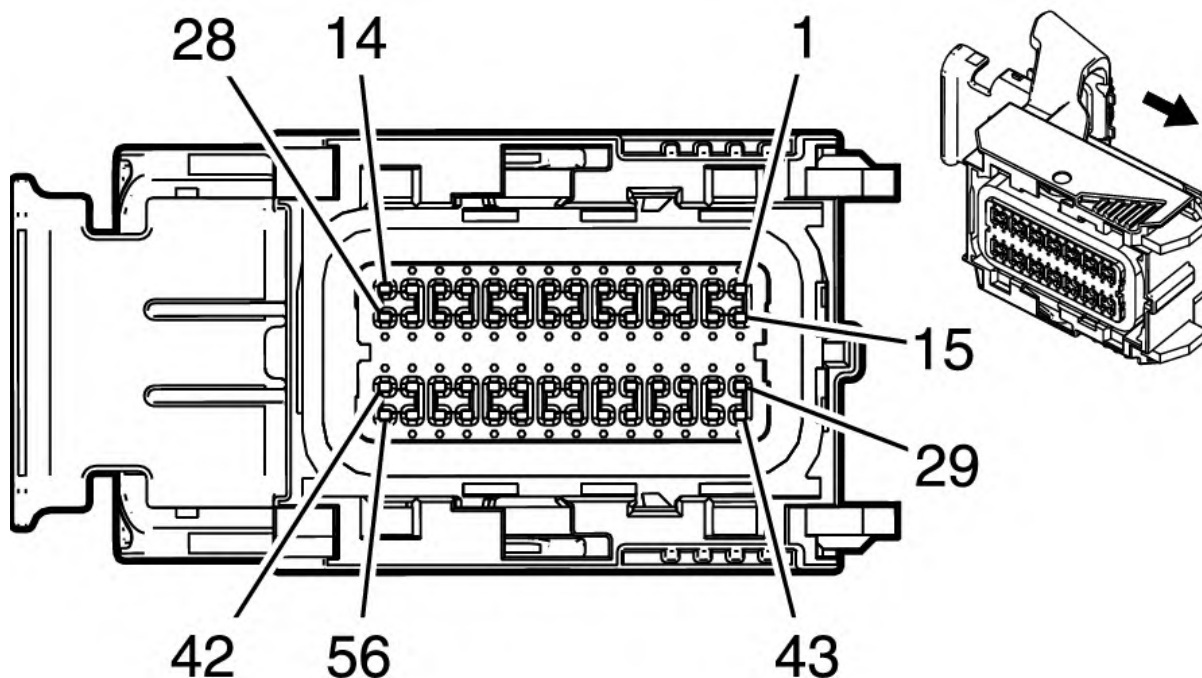
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 6	-	-	-	Not Occupied	-	-
7	0.5	WH	7494	High Speed GMLAN Serial Data (-) 3	I	LE2
8	0.5	BU/BK	7493	High Speed GMLAN Serial Data (+) 3	I	LE2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
9	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	I	LE2+MM1
10	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	LE2+MM1
11	0.5	BN/RD	1274	Accelerator Pedal Position 5V Reference 2	I	LE2
12	0.5	WH/RD	1164	Accelerator Pedal Position 5V Reference 1	I	LE2
13	0.5	VT/YE	5985	Accessory Wakeup Serial Data	I	LE2+MM1
14	0.5	VT/GY	139	Run/Crank Ignition 1 Voltage	I	LE2
15	0.5	RD/WH	140	Battery Positive Voltage	I	LE2
16	0.75	VT/BU	5292	Powertrain Main Relay Fused Supply 3	I	LE2
17	0.5	YE	5530	Hood Open Switch Signal	I	LE2+KL9
18	0.5	GY/RD	3053	Turbo Intake Pressure Sensor High Reference Bank 1	I	LE2
19 - 24	-	-	-	Not Occupied	-	-
25	0.5	BK/YE	5382	Brake Position Sensor Low Reference	I	LE2+MM1
26	-	-	-	Not Occupied	-	-
27	0.5	BK/VT	1272	Accelerator Pedal Position Low Reference 2	I	LE2
28	0.5	BK/BU	1271	Accelerator Pedal Position Low Reference 1	I	LE2
29 - 31	-	-	-	Not Occupied	-	-
32	0.5	YE/VT	6030	Brake Vacuum Sensor Signal	I	LE2+KL9
33	0.5	GN/WH	1162	Accelerator Pedal Position Signal 2	I	LE2
34	0.5	GN/WH	492	Mass Air Flow Sensor Signal	I	LE2
35 - 36	-	-	-	Not Occupied	-	-
37	0.5	BN/RD	2700	A/C Pressure Sensor 5V Reference	I	LE2+C67/CJ2
38 - 40	-	-	-	Not Occupied	-	-
41	0.5	WH/RD	5381	Brake Position Sensor 5V Reference	I	LE2+MM1
42 - 43	-	-	-	Not Occupied	-	-
44	0.5	YE/VT	4325	Starter Pinion Solenoid Relay Control	I	LE2+MM1+KL9
45	0.5	YE/WH	1161	Accelerator Pedal Position Signal 1	I	LE2
46	-	-	-	Not Occupied	-	-
47	0.5	BU/GY	636	Outside Ambient Air Temperature Sensor Signal	I	LE2
48	0.5	WH/BU	6289	Induction Air Temperature Sensor Signal	I	LE2
49	0.5	WH/GY	1786	Transmission Park/Neutral Signal 1	I	LE2+MM1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
50	0.5	WH/BU	6311	Cruise/ETC/TCC Brake Signal	I	LE2
51	0.5	VT/BU	5291	Powertrain Main Relay Fused Supply 2	I	LE2
52	0.5	GN/VT	335	Low Speed Cooling Fan Relay Control	I	LE2
53	-	-	-	Not Occupied	-	-
54	0.5	WH/GY	459	A/C Compressor Clutch Relay Control	I	LE2+C67/CJ2
55 - 56	-	-	-	Not Occupied	-	-
57	0.5	GN	380	A/C Refrigerant Pressure Sensor Signal	I	LE2+C67/CJ2
58 - 59	-	-	-	Not Occupied	-	-
60	0.5	BN/GY	4008	Humidity Sensor Signal	I	LE2
61	0.5	WH/GN	5380	Brake Position Sensor Signal	I	LE2+MM1
62 - 63	-	-	-	Not Occupied	-	-
64	0.5	GN/GY	465	Fuel Pump Primary Relay Control	I	LE2
65	0.5	WH	1310	EVAP Canister Vent Solenoid Control	I	LE2
66	0.5	BN/YE	473	High Speed Cooling Fan Relay Control	I	LE2
67	0.5	YE	5991	Powertrain Relay Coil Control	I	LE2
68 - 69	-	-	-	Not Occupied	-	-
70	0.5	YE/BK	625	Starter Enable Relay Control	I	LE2+MM1+KL9
71	0.5	BN/WH	419	Check Engine Indicator Control	I	LE2
72	-	-	-	Not Occupied	-	-
73	2.5	VT/BU	5290	Powertrain Main Relay Fused Supply 1	II	LE2

K20 ENGINE CONTROL MODULE X1 (LUV)





Connector Part Information

- Harness Type: Engine
- OEM Connector: 34576-7133
- Service Connector: 13395411
- Description: 56-Way F 0.64 Series, Sealed (BK with BU Terminal Position Assurance)

Terminal Part Information

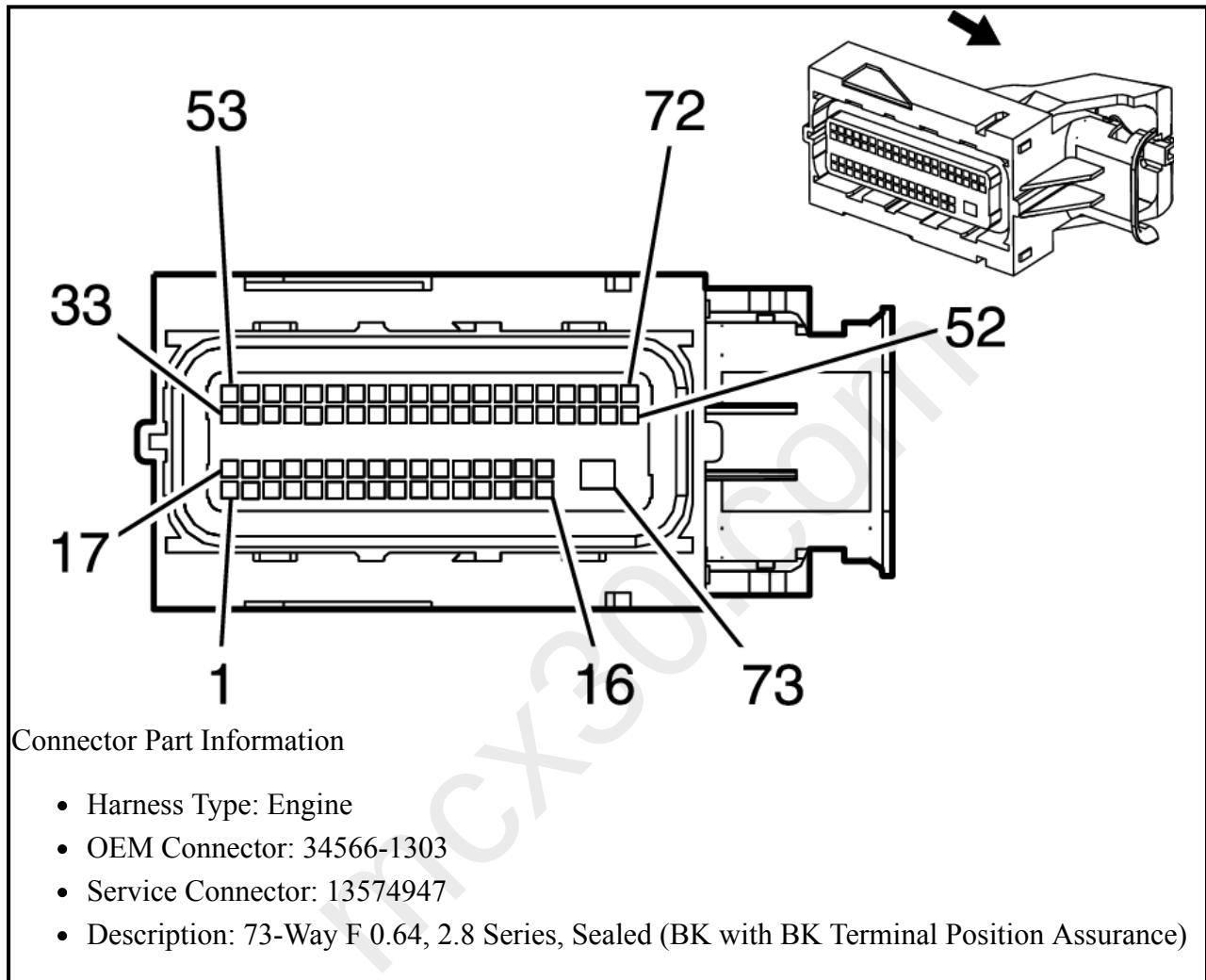
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575812	J-35616-64B (LT BU)	J-38125-213	33467-0003	Delphi 23	Not Available	J
II	19301532	J-35616-64B (LT BU)	J-38125-213	Not Available	Not Available	Not Available	Not Available

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	0.5	GN/WH	1162	Accelerator Pedal Position Signal 2	II	-
3	0.5	GN/WH	492	Mass Air Flow Sensor Signal	II	-
4 - 7	-	-	-	Not Occupied	-	-
8	0.5	BN/GY	4008	Humidity Sensor Signal	II	-
9	0.5	YE/WH	3200	Throttle Inlet Absolute Pressure Sensor Signal	II	-
10	0.5	YE/WH	1161	Accelerator Pedal Position Signal 1	II	-
11	0.5	YE/WH	3200	Throttle Inlet Absolute Pressure Sensor Signal	II	-
12	0.5	GN	380	A/C Refrigerant Pressure Sensor Signal	II	-
13	0.5	BK/BN	5514	A/C Refrigerant Pressure Sensor Low Reference	II	-
14 - 15	-	-	-	Not Occupied	-	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
16	0.5	BN/RD	1274	Accelerator Pedal Position 5V Reference 2	II	-
17	-	-	-	Not Occupied	-	-
18	0.5	VT/YE	5985	Accessory Wakeup Serial Data	II	-
19	0.5	VT/GY	139	Run/Crank Ignition 1 Voltage	II	-
20	0.75	RD/WH	140	Battery Positive Voltage	II	-
21 - 22	-	-	-	Not Occupied	-	-
23	0.5	WH/RD	3201	Throttle Inlet Absolute Pressure Sensor 5V Reference	II	-
24	0.5	WH/RD	1164	Accelerator Pedal Position 5V Reference 1	II	-
25	0.5	WH/RD	3201	Throttle Inlet Absolute Pressure Sensor 5V Reference	II	-
26	0.5	BN/RD	2700	A/C Pressure Sensor 5V Reference	II	-
27	0.5	YE/BK	625	Starter Enable Relay Control	II	-
28	0.5	GN/GY	465	Fuel Pump Primary Relay Control	II	-
29	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	II	-
30	0.5	BK/VT	1272	Accelerator Pedal Position Low Reference 2	II	-
31	0.5	BK/VT	2760	Intake Air Temperature Sensor Low Reference	II	-
32	0.5	BK/BU	6813	Coolant Temperature Sensor 2 Low Reference	II	-
33	0.5	WH/BU	6311	Cruise/ETC/TCC Brake Signal	II	-
34	0.5	WH/GY	1786	Transmission Park/Neutral Signal 1	II	-
35 - 37	-	-	-	Not Occupied	-	-
38	0.5	BK/BU	1271	Accelerator Pedal Position Low Reference 1	II	-
39	0.5	WH/YE	3202	Throttle Inlet Absolute Pressure Sensor Low Reference	II	-
40	0.5	YE	5991	Powertrain Relay Coil Control	II	-
41	0.5	GN/VT	335	Low Speed Cooling Fan Relay Control	II	-
42	-	-	-	Not Occupied	-	-
43	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	II	-
44	-	-	-	Not Occupied	-	-
45	0.5	WH/BU	6289	Induction Air Temperature Sensor Signal	II	-
46	0.5	GN/VT	2032	Coolant Temperature Sensor Signal	II	-
47	0.5	BN	25	Charge Indicator Control	II	-
48	0.5	VT/BU	6091	Crankshaft Position Sensor Replicated Signal	I	-
49 - 51	-	-	-	Not Occupied	-	-
52	0.5	BN/WH	419	Check Engine Indicator Control	II	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
53	0.5	WH/GY	459	A/C Compressor Clutch Relay Control	II	-
54	0.5	BN/YE	473	High Speed Cooling Fan Relay Control	II	-
55	-	-	-	Not Occupied	-	-
56	0.5	WH	1310	EVAP Canister Vent Solenoid Control	II	-

K20 ENGINE CONTROL MODULE X2 (LE2)



Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575812	J-35616-64B (LT BU)	J-38125-213	Not Available	Not Available	Not Available	Not Available
II	13576392	J-35616-4A (PU)	J-38125-11A	7116-4152-02	Yazaki 9	A	5

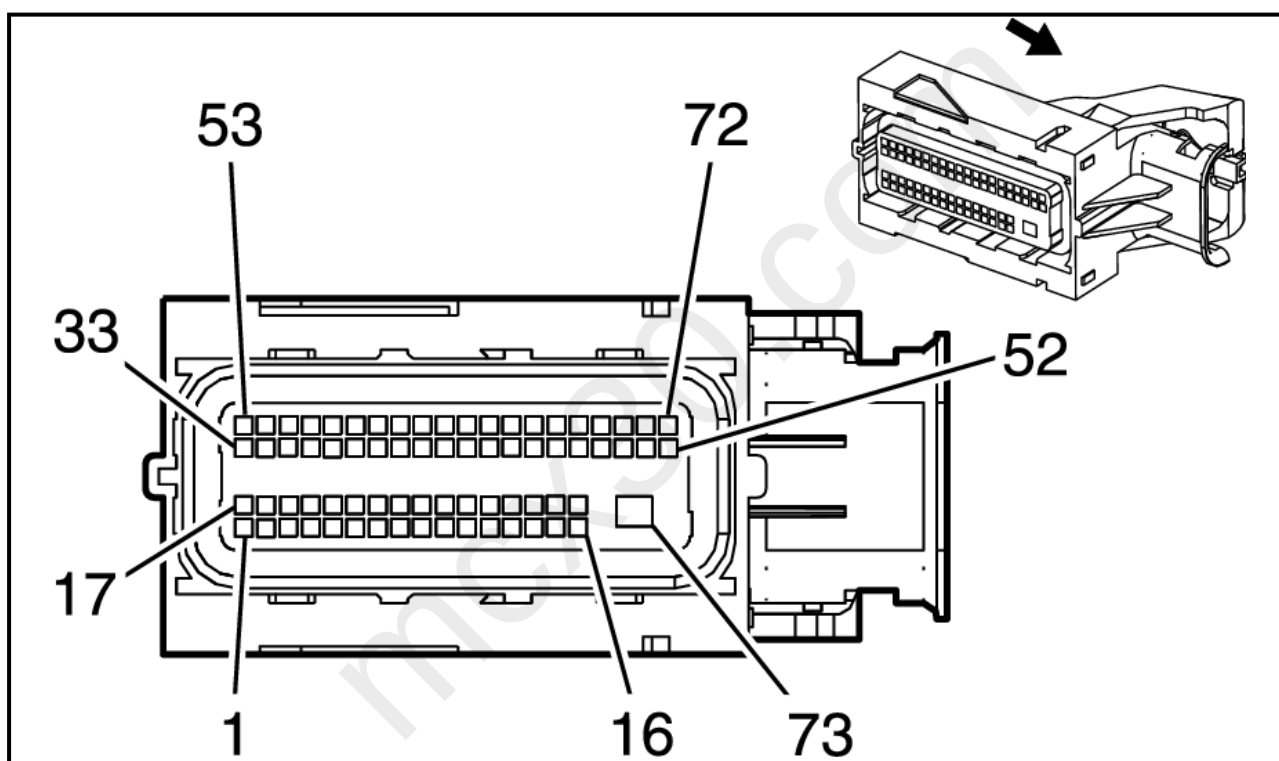
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	0.5	BU	410	Engine Coolant Temperature Sensor Signal	I	LE2
3 - 4	-	-	-	Not Occupied	-	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
5	0.5	GY/RD	7331	Pre Throttle Air Temp and Press (TMAP) 5V Reference	I	LE2
6	0.5	GY/YE	5297	Camshaft Position Exhaust Sensor Control 1	I	LE2
7	0.5	GY/BU	5300	Camshaft Position Intake Sensor Control 1	I	LE2
8 - 11	-	-	-	Not Occupied	-	-
12	0.5	BN/RD	2701	Throttle Position Sensor 5V Reference	I	LE2
13	0.5	BU/WH	3630	Throttle Position Sensor (SENT1) Signal	I	LE2
14	0.5	WH/RD	2705	Oil Pressure Sensor 5V Reference	I	LE2
15	0.5	VT/BU	6270	Crankshaft 60X Sensor 5V Reference	I	LE2
16	-	-	-	Not Occupied	-	-
17	0.5	GY/BK	3865	Heater Loop Auxiliary Pump Relay Control	I	LE2+KL9+ (MAH/MBC/MCX)
18 - 20	-	-	-	Not Occupied	-	-
21	0.5	BK/VT	7332	Pre Throttle Air Temp and Press (TMAP) Low Reference	I	LE2
22	0.5	BK/GY	5296	Camshaft Position Exhaust Sensor Low Reference 1	I	LE2
23	0.5	BK/GN	5301	Camshaft Position Intake Sensor Low Reference 1	I	LE2
24 - 27	-	-	-	Not Occupied	-	-
28	0.5	BK/BN	2752	Throttle Position Sensor Low Reference	I	LE2
29	0.5	YE/BN	331	Oil Pressure Sensor Signal	I	LE2
30	0.5	BK/VT	2755	Oil Pressure Sensor Low Reference	I	LE2
31	0.5	BK/VT	6272	Crankshaft 60X Sensor Low Reference	I	LE2
32	0.5	GN	3060	Turbo Bypass Solenoid Control Bank 1	I	LE2
33	0.5	WH/BK	3111	Heated Oxygen Sensor Low Signal Bank 1 Sensor 1	I	LE2
34	0.5	WH/YE	3121	Heated Oxygen Sensor Low Signal Bank 1 Sensor 2	I	LE2
35	-	-	-	Not Occupied	-	-
36	0.5	BK/VT	6754	Cam Phaser X Low Reference	I	LE2
37	0.5	BK/BN	6753	Cam Phaser W Low Reference	I	LE2
38	0.5	VT/BK	5273	Camshaft Position Exhaust Sensor 1	I	LE2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
39	0.5	YE/VT	5275	Camshaft Position Intake Sensor 1	I	LE2
40	0.5	GN	6271	Crankshaft 60X Sensor Signal	I	LE2
41	-	-	-	Not Occupied	-	-
42	0.5	VT/BU	6091	Crankshaft Position Sensor Replicated Signal	I	LE2+NKC
43	0.5	BK/WH	2051	Signal Ground	I	LE2
44	0.5	BK/BU	2129	Ignition Control Low Reference Bank 1	I	LE2
45	0.5	GN/BU	2123	Ignition Control 3	I	LE2
46	0.5	BU/VT	2121	Ignition Control 1	I	LE2
47	-	-	-	Not Occupied	-	-
48	0.75	BU	4802	Direct Fuel Injector (DFI) High Voltage Control Cylinder 2	I	LE2
49	0.75	GY/BU	4804	Direct Fuel Injector (DFI) High Voltage Control Cylinder 4	I	LE2
50	0.75	GN	4803	Direct Fuel Injector (DFI) High Voltage Control Cylinder 3	I	LE2
51	0.75	BN	4801	Direct Fuel Injector (DFI) High Voltage Control Cylinder 1	I	LE2
52	0.5	YE	581	Throttle Actuator Control Open	I	LE2
53	0.5	VT/GY	3110	Heated Oxygen Sensor High Signal Bank 1 Sensor 1	I	LE2
54	0.5	VT/BU	3120	Heated Oxygen Sensor High Signal Bank 1 Sensor 2	I	LE2
55	-	-	-	Not Occupied	-	-
56	0.5	GY/BU	5282	Camshaft Phaser Exhaust Solenoid 1	I	LE2
57	0.5	VT/BN	5284	Camshaft Phaser Intake Solenoid 1	I	LE2
58 - 59	-	-	-	Not Occupied	-	-
60	0.5	GY/WH	3122	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor 2	I	LE2
61	0.5	GY/WH	3113	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor 1	I	LE2
62	-	-	-	Not Occupied	-	-
63	0.5	BN/YE	258	Waste Gate Solenoid Control	I	LE2
64	0.5	BU	179	Oil Pump Command Signal	I	LE2
65	0.5	BU/WH	2122	Ignition Control 2	I	LE2
66	0.5	YE/BU	2124	Ignition Control 4	I	LE2
67	-	-	-	Not Occupied	-	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
68	0.75	BU/GY	4902	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 2	I	LE2
69	0.75	BU/WH	4904	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 4	I	LE2
70	0.75	GN/GY	4903	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 3	I	LE2
71	0.75	BN/WH	4901	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 1	I	LE2
72	0.5	BN/WH	582	Throttle Actuator Control Close	I	LE2
73	2.5	BK/WH	151	Signal Ground	II	LE2

K20 ENGINE CONTROL MODULE X2 (LUV)



Connector Part Information

- Harness Type: Engine
- OEM Connector: 34566-4883
- Service Connector: 13574947
- Description: 73-Way F 0.64, 2.8 Series, Sealed (BK with BK Terminal Position Assurance)

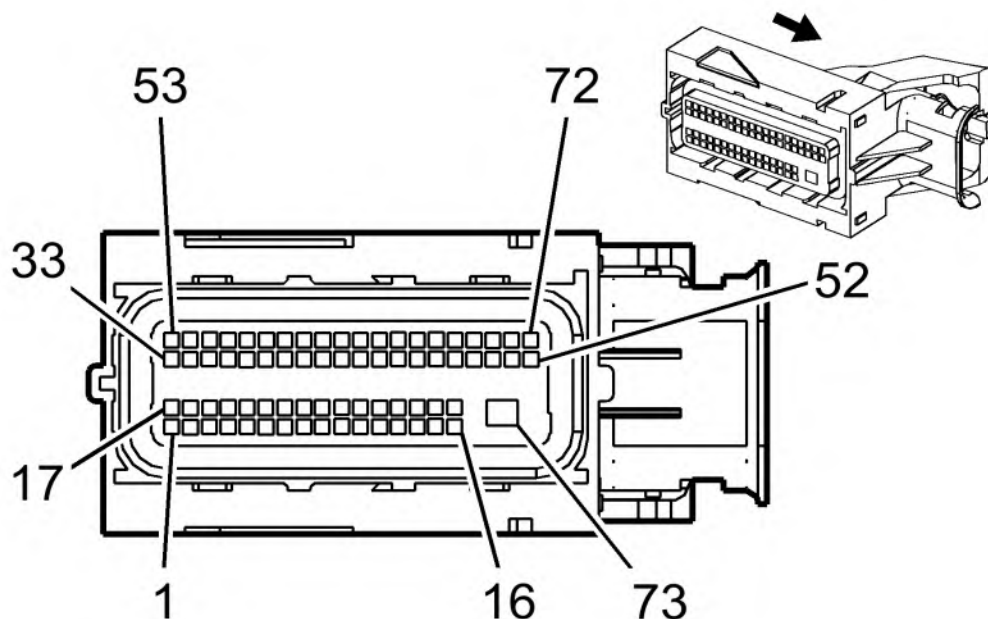
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13579770	J-35616-4A (PU)	J-38125-11A	7116-4152-02	Yazaki 9	A	5
II	19301532	J-35616-64B (LT BU)	J-38125-213	Not Available	Not Available	Not Available	Not Available

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BU/VT	2121	Ignition Control 1	II	-
2	0.5	GN/YE	1744	Fuel Injector Control 1	II	-
3	0.5	BN/VT	1746	Fuel Injector Control 3	II	-
4	0.5	BN/YE	844	Fuel Injector Control 4	II	-
5	0.5	YE/WH	1745	Fuel Injector Control 2	II	-
6 - 9	-	-	-	Not Occupied	-	-
10	0.5	GY/BU	5282	Camshaft Phaser Exhaust Solenoid 1	II	-
11	0.5	VT/BN	5284	Camshaft Phaser Intake Solenoid 1	II	-
12	-	-	-	Not Occupied	-	-
13	0.75	VT/BU	5290	Powertrain Main Relay Fused Supply 1	II	-
14	0.5	BU	6814	Thermostat Engine Cool Control	II	-
15	0.75	YE	581	Throttle Actuator Control Open	II	-
16	0.75	BN/WH	582	Throttle Actuator Control Close	II	-
17	0.5	GN/BU	2123	Ignition Control 3	II	-
18 - 19	-	-	-	Not Occupied	-	-
20	0.5	BK/VT	6272	Crankshaft 60X Sensor Low Reference	II	-
21	0.5	BK/GY	5296	Camshaft Position Exhaust Sensor Low Reference 1	II	-
22 - 23	-	-	-	Not Occupied	-	-
24	0.5	BK/GN	5301	Camshaft Position Intake Sensor Low Reference 1	II	-
25 - 27	-	-	-	Not Occupied	-	-
28	0.75	VT/BU	5290	Powertrain Main Relay Fused Supply 1	II	-
29	0.5	BK/BN	6753	Cam Phaser W Low Reference	II	-
30	0.5	BK/VT	6754	Cam Phaser X Low Reference	II	-
31	0.5	YE/BU	231	Oil Pressure Switch Signal	II	-
32	-	-	-	Not Occupied	-	-
33	0.5	YE/BU	2124	Ignition Control 4	II	-
34	-	-	-	Not Occupied	-	-
35	0.5	BK/BU	2129	Ignition Control Low Reference Bank 1	II	-
36	0.5	VT/BU	6270	Crankshaft 60X Sensor 5V Reference	II	-
37	0.5	GY/YE	5297	Camshaft Position Exhaust Sensor Control 1	II	-
38 - 39	-	-	-	Not Occupied	-	-
40	0.5	GY/BU	5300	Camshaft Position Intake Sensor Control 1	II	-
41 - 42	-	-	-	Not Occupied	-	-
43	0.5	BN/RD	2701	Throttle Position Sensor 5V Reference	II	-
44	0.5	BK/BN	2752	Throttle Position Sensor Low Reference	II	-
45	-	-	-	Not Occupied	-	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
46	0.5	BN	7348	Induction Air Temperature Sensor 2 Signal	II	-
47	0.5	WH/BK	3111	Heated Oxygen Sensor Low Signal Bank 1 Sensor 1	II	-
48	-	-	-	Not Occupied	-	-
49	0.5	BK/YE	1716	Knock Sensor Low Reference 1	II	-
50 - 52	-	-	-	Not Occupied	-	-
53	0.5	BU/WH	2122	Ignition Control 2	II	-
54 - 55	-	-	-	Not Occupied	-	-
56	0.5	GN	6271	Crankshaft 60X Sensor Signal	II	-
57	0.5	VT/BK	5273	Camshaft Position Exhaust Sensor 1	II	-
58 - 59	-	-	-	Not Occupied	-	-
60	0.5	YE/VT	5275	Camshaft Position Intake Sensor 1	II	-
61 - 62	-	-	-	Not Occupied	-	-
63	0.5	BN/GN	485	Throttle Position Sensor Signal 1	II	-
64	-	-	-	Not Occupied	-	-
65	0.5	BN/BU	486	Throttle Position Sensor Signal 2	II	-
66	-	-	-	Not Occupied	-	-
67	0.5	VT/GY	3110	Heated Oxygen Sensor High Signal Bank 1 Sensor 1	II	-
68	-	-	-	Not Occupied	-	-
69	0.5	VT/GY	496	Knock Sensor Signal 1	II	-
70 - 71	-	-	-	Not Occupied	-	-
72	0.5	GY/WH	3113	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor 1	II	-
73	2.5	BK	450	Ground	I	-

K20 ENGINE CONTROL MODULE X3 (LE2)



Connector Part Information

- Harness Type: Engine
- OEM Connector: 34566-1403
- Service Connector: 13574948
- Description: 73-Way F 0.64, 2.8 Series, Sealed (BK with GY Terminal Position Assurance)

Terminal Part Information

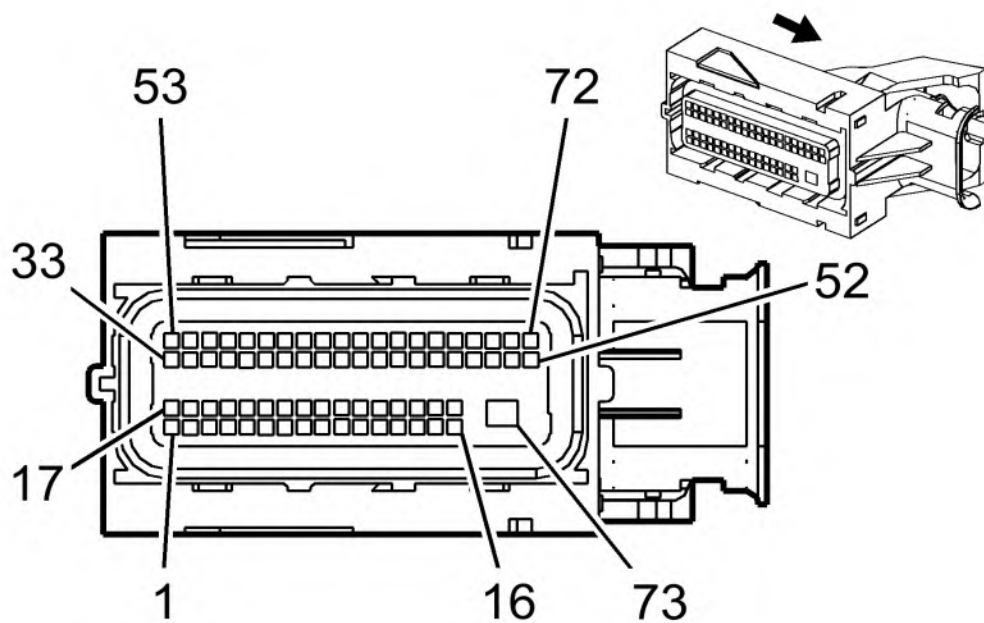
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575812	J-35616-64B (LT BU)	J-38125-213	Not Available	Not Available	Not Available	Not Available
II	13576392	J-35616-4A (PU)	J-38125-11A	7116-4152-02	Yazaki 9	A	5

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	0.5	BU/WH	3608	High Speed Mass Air Flow Sensor Control	I	LE2+KL9
3	-	-	-	Not Occupied	-	-
4	0.5	GN/BU	428	EVAP Canister Purge Solenoid Control	I	LE2
5	-	-	-	Not Occupied	-	-
6	0.5	BN/RD	2917	Fuel Rail Pressure Sensor 5V Reference	I	LE2
7	-	-	-	Not Occupied	-	-
8	0.5	YE/RD	2709	Fuel Tank Pressure Sensor 5V Reference	I	LE2
9 - 13	-	-	-	Not Occupied	-	-
14	0.5	WH/RD	3201	Throttle Inlet Absolute Pressure Sensor 5V Reference	I	LE2
15	0.5	YE/RD	6031	Brake Vacuum Sensor 5V Reference	I	LE2+KL9
16	0.5	VT/BU	5293	Powertrain Main Relay Fused Supply 4	I	LE2
17	0.5	WH/GY	4578	Surge Accumulator Solenoid Low Side Control	I	LE2+MM1+KL9
18	0.5	BN	25	Charge Indicator Control	I	LE2
19	0.5	GY	23	Generator Field Duty Cycle Signal	I	LE2
20	0.5	BK/WH	2151	Signal Ground	I	LE2
21	0.5	BU/WH	2918	Fuel Rail Pressure Sensor Signal	I	LE2
22	0.5	BK/GN	2919	Fuel Rail Pressure Sensor Low Reference	I	LE2
23 - 29	-	-	-	Not Occupied	-	-
30	0.5	WH/YE	3202	Throttle Inlet Absolute Pressure Sensor Low Reference	I	LE2
31 - 39	-	-	-	Not Occupied	-	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
40	0.5	VT/BU	7330	Pre Throttle Air Temp and Press (TMAP) Air Pressure Signal	I	LE2
41 - 42	-	-	-	Not Occupied	-	-
43	0.5	BU/VT	1589	Primary Fuel Level Sensor Signal	I	LE2
44	0.5	BU/WH	1937	Secondary Fuel Level Sensor Signal	I	LE2+F46
45	-	-	-	Not Occupied	-	-
46	0.5	YE/WH	3200	Throttle Inlet Absolute Pressure Sensor Signal	I	LE2
47	0.5	WH/BU	7329	Pre-Throttle Air Temp and Press (TMAP) Temperature Signal	I	LE2
48	0.5	YE	3054	Turbo Intake Pressure Sensor Signal Bank 1	I	LE2
49 - 51	-	-	-	Not Occupied	-	-
52	0.5	VT/BK	7300	High Pressure Fuel Pump Actuator Low - Control	I	LE2
53 - 54	-	-	-	Not Occupied	-	-
55	0.5	GN/VT	4621	Local Interconnect Network Serial Data Bus 21	I	LE2
56 - 60	-	-	-	Not Occupied	-	-
61	0.5	BK/YE	1716	Knock Sensor Low Reference 1	I	LE2
62	0.5	VT/GY	496	Knock Sensor Signal 1	I	LE2
63 - 67	-	-	-	Not Occupied	-	-
68	0.5	BU/WH	890	Fuel Tank Pressure Sensor Signal	I	LE2
69 - 71	-	-	-	Not Occupied	-	-
72	0.5	YE	7301	High Pressure Fuel Pump Actuator High - Control	I	LE2
73	2.5	BK/WH	151	Signal Ground	II	LE2

K20 ENGINE CONTROL MODULE X3 (LUV)





Connector Part Information

- Harness Type: Engine
- OEM Connector: 34566-5013
- Service Connector: 13574948
- Description: 73-Way F 0.64, 2.8 Series, Sealed (BK with GY Terminal Position Assurance)

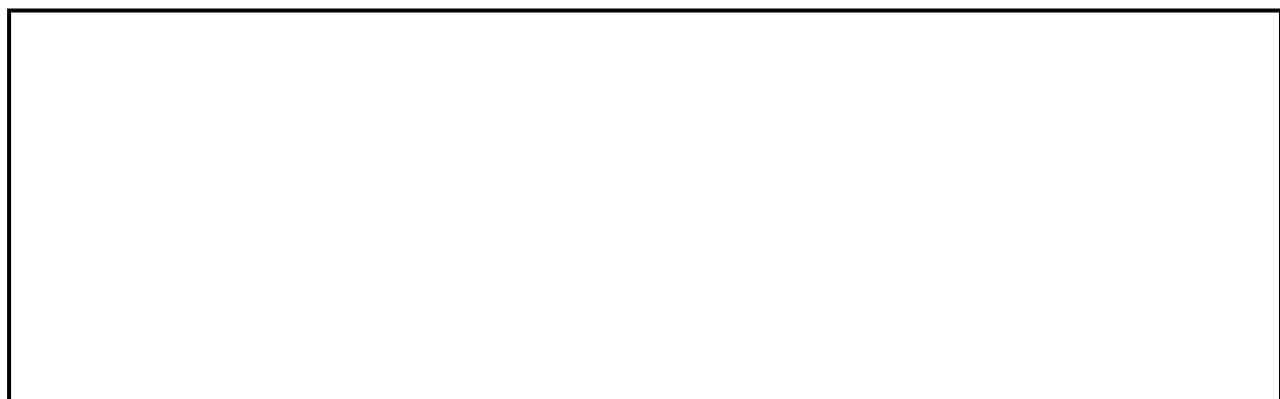
Terminal Part Information

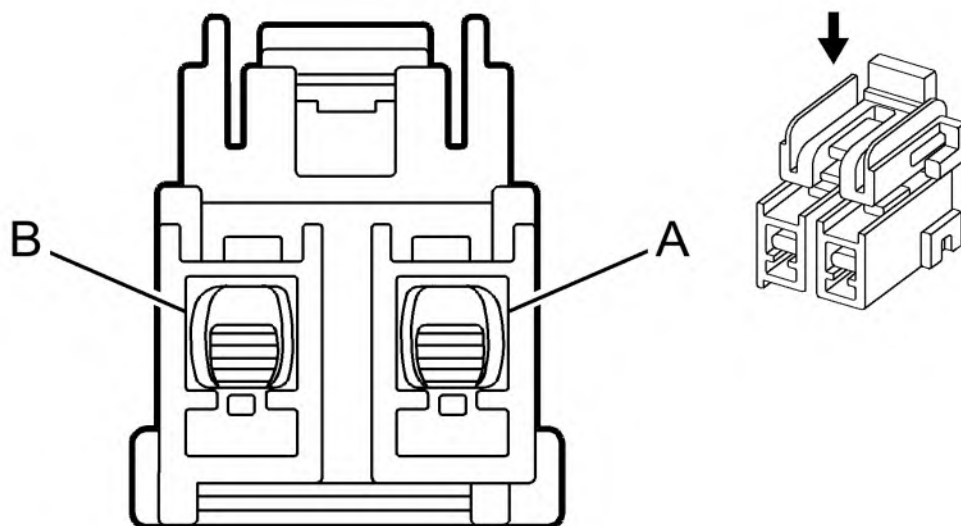
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19301532	J-35616-64B (LT BU)	J-38125-213	Not Available	Not Available	Not Available	Not Available

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GN/WH	5007	Reverse Switch Signal	I	-
2 - 9	-	-	-	Not Occupied	-	-
10	0.5	GN/BU	428	EVAP Canister Purge Solenoid Control	I	-
11 - 12	-	-	-	Not Occupied	-	-
13	0.75	GN	3060	Turbo Bypass Solenoid Control Bank 1	I	-
14	-	-	-	Not Occupied	-	-
15	0.75	YE	3058	Turbo Waste Gate Solenoid Control Bank 1	I	-
16	-	-	-	Not Occupied	-	-
17	0.5	GY	23	Generator Field Duty Cycle Signal	I	-
18	-	-	-	Not Occupied	-	-
19	0.5	WH/BK	3097	Output Speed (Digital) Sensor Low Reference	I	-
20 - 21	-	-	-	Not Occupied	-	-
22	0.5	BK/YE	5382	Brake Position Sensor Low Reference	I	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
23 - 26	-	-	-	Not Occupied	-	-
27	0.5	BK/GN	6281	Fuel Level Sensor Low Reference	I	-
28	0.5	GY/RD	2704	Manifold Absolute Pressure Sensor 5V Reference	I	-
29	0.5	BK/GN	469	Manifold Absolute Pressure Sensor Low Reference	I	-
30	0.5	BK/BN	2761	Coolant Temperature Sensor Low Reference	I	-
31	-	-	-	Not Occupied	-	-
32	0.5	GY/WH	3122	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor 2	I	-
33 - 34	-	-	-	Not Occupied	-	-
35	0.5	GY/BK	3096	Output Speed (Digital) Sensor 5V Reference	I	-
36 - 37	-	-	-	Not Occupied	-	-
38	0.5	WH/RD	5381	Brake Position Sensor 5V Reference	I	-
39 - 42	-	-	-	Not Occupied	-	-
43	0.5	YE/RD	2709	Fuel Tank Pressure Sensor 5V Reference	I	-
44	0.5	BU/WH	1937	Secondary Fuel Level Sensor Signal	I	-
45	0.5	GN/WH	432	Manifold Absolute Pressure Sensor Signal	I	-
46	0.5	BU	410	Engine Coolant Temperature Sensor Signal	I	-
47 - 54	-	-	-	Not Occupied	-	-
55	0.5	GN	3098	Output Speed (Digital) Signal	I	-
56 - 57	-	-	-	Not Occupied	-	-
58	0.5	WH/GN	5380	Brake Position Sensor Signal	I	-
59 - 62	-	-	-	Not Occupied	-	-
63	0.5	BU/WH	890	Fuel Tank Pressure Sensor Signal	I	-
64	0.5	BU/VT	1589	Primary Fuel Level Sensor Signal	I	-
65 - 66	-	-	-	Not Occupied	-	-
67	0.5	VT/BU	3120	Heated Oxygen Sensor High Signal Bank 1 Sensor 2	I	-
68	0.5	WH/YE	3121	Heated Oxygen Sensor Low Signal Bank 1 Sensor 2	I	-
69 - 73	-	-	-	Not Occupied	-	-

K29 SEAT HEATING CONTROL MODULE X1





Connector Part Information

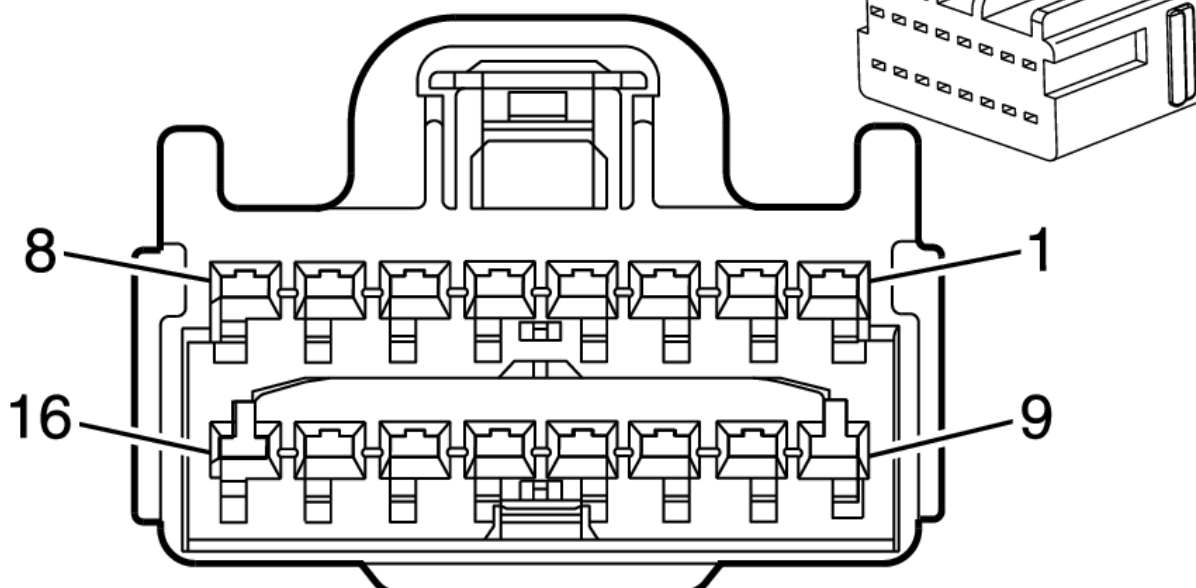
- Harness Type: Driver Seat
- OEM Connector: 13527997
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 280 Metri-Pack Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1.5	BK	850	Ground	I	KA1
B	1.5	RD/YE	3740	Battery Positive Voltage	I	KA1

K29 SEAT HEATING CONTROL MODULE X2



Connector Part Information

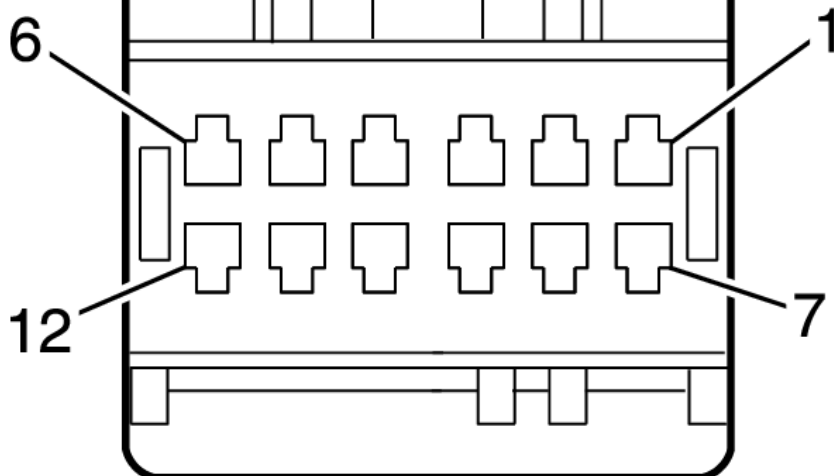
- Harness Type: Driver Seat
- OEM Connector: 7283-6453-60
- Service Connector: Service by Harness - See Part Catalog
- Description: 16-Way F 1.5 Kaizen Series (GN)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	VT/BK	2424	Driver Heated Back Element Low Reference	I	KA1
2	1	BU/BK	2433	Passenger Heated Back Element Low Reference	I	KA1
3	1	BN/VT	2077	Driver Heated Seat Element Control	I	KA1
4	-	-	-	Not Occupied	-	-
5	1	BN/BU	2479	Passenger Heated Seat Element Control	I	KA1
6 - 12	-	-	-	Not Occupied	-	-
13	0.5	BK/YE	2080	Driver Heated Seat NTC Low Reference	I	KA1
14	0.5	BK/GY	2435	Passenger Heated Seat NTC Low Reference	I	KA1
15 - 16	-	-	-	Not Occupied	-	-

K29 SEAT HEATING CONTROL MODULE X3



Connector Part Information

- Harness Type: Driver Seat
- OEM Connector: 31410-1120
- Service Connector: Service by Harness - See Part Catalog
- Description: 12-Way F 0.64 Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	-	-	-	Not Occupied	-	-
3	0.5	YE/GY	2079	Driver Heated Seat NTC Signal	I	KA1
4	0.5	WH/GY	2434	Passenger Heated Seat NTC Signal	I	KA1
5 - 10	-	-	-	Not Occupied	-	-
11	0.35	GN	5060	Low Speed GMLAN Serial Data	I	KA1
12	-	-	-	Not Occupied	-	-

K32 STEERING WHEEL HEATING CONTROL MODULE

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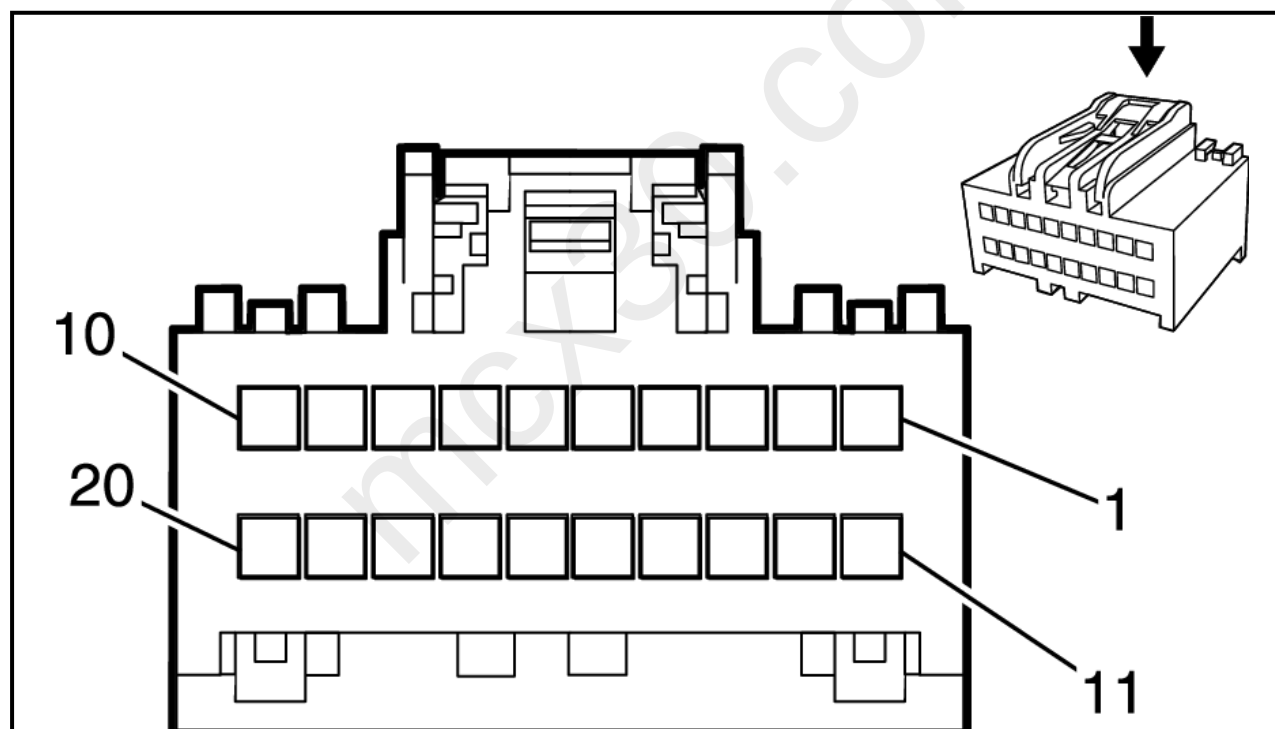
Connector Part Information

- Harness Type: Steering Wheel
- OEM Connector: Not Available
- Service Connector: Not Available
- Description: Not Available

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	RD	941	Heated Steering Wheel Control Module Supply Voltage	I	UVD
2	0.35	BK	950	Ground	I	UVD
3	0.35	WH	5883	Heated Steering Wheel Switch Signal	I	UVD
4	0.35	L-GN	5884	Heated Steering Wheel Switch LED Control	I	UVD
5	0.35	VT/BU	5886	Heated Steering Wheel Sensor Signal	I	UVD
6	0.35	YE	5888	Heated Steering Wheel High Control	I	UVD

K33 HVAC CONTROL MODULE X1**Connector Part Information**

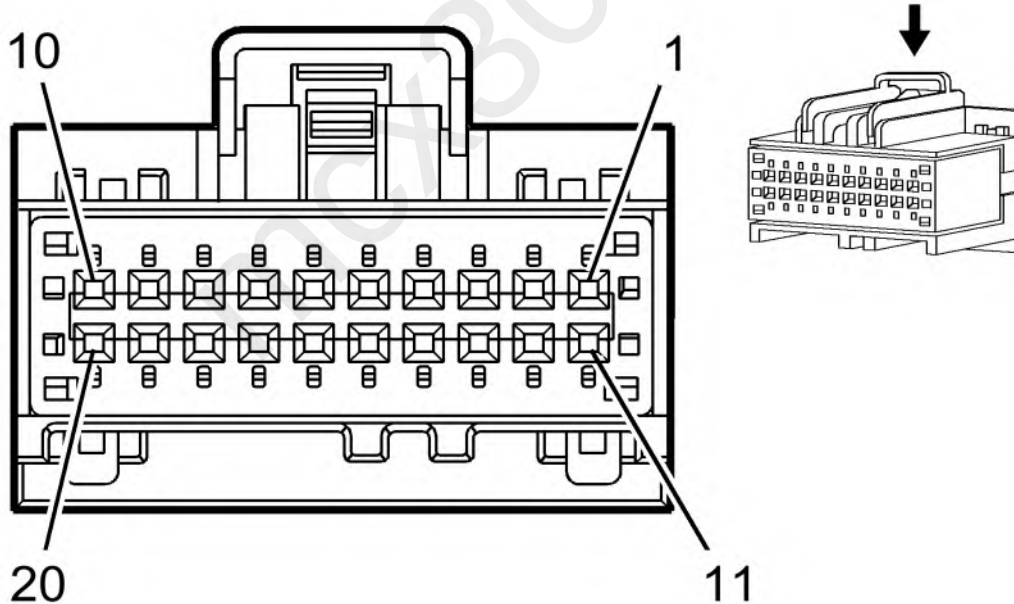
- Harness Type: Instrument Panel
- OEM Connector: 31410-1203
- Service Connector: 13576644
- Description: 20-Way F 0.64 Series (GN)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575867	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	0.35	GY/GN	7565	Windscreen Temp Sensor Signal	I	-
3	-	-	-	Not Occupied	-	-
4	0.35	BU/WH	734	Inside Air Temperature Sensor Signal	I	CJ2/C4P
5	0.35	YE/BU	3197	Humidity Temperature Sensor Signal	I	-
6	0.35	YE/RD	597	5V Reference	I	-
7	0.5	BK/BU	7566	Humidity/Windscreen Temp Sensor Low Reference	I	-
8 - 11	-	-	-	Not Occupied	-	-
12	0.35	GY/BU	7564	Humidity Sensor Signal	I	-
13	0.35	BU	1120	Solar Sensor Pulsed Voltage Reference	I	CJ2
14	0.35	BU	1120	Solar Sensor Pulsed Voltage Reference	I	C4P
15 - 17	-	-	-	Not Occupied	-	-
18	0.35	BN	404	Upper Air Temperature Sensor Signal	I	C4P
19	-	-	-	Not Occupied	-	-
20	0.35	GN/WH	1121	Solar Sensor Combined Signal	I	CJ2

K33 HVAC CONTROL MODULE X2



Connector Part Information

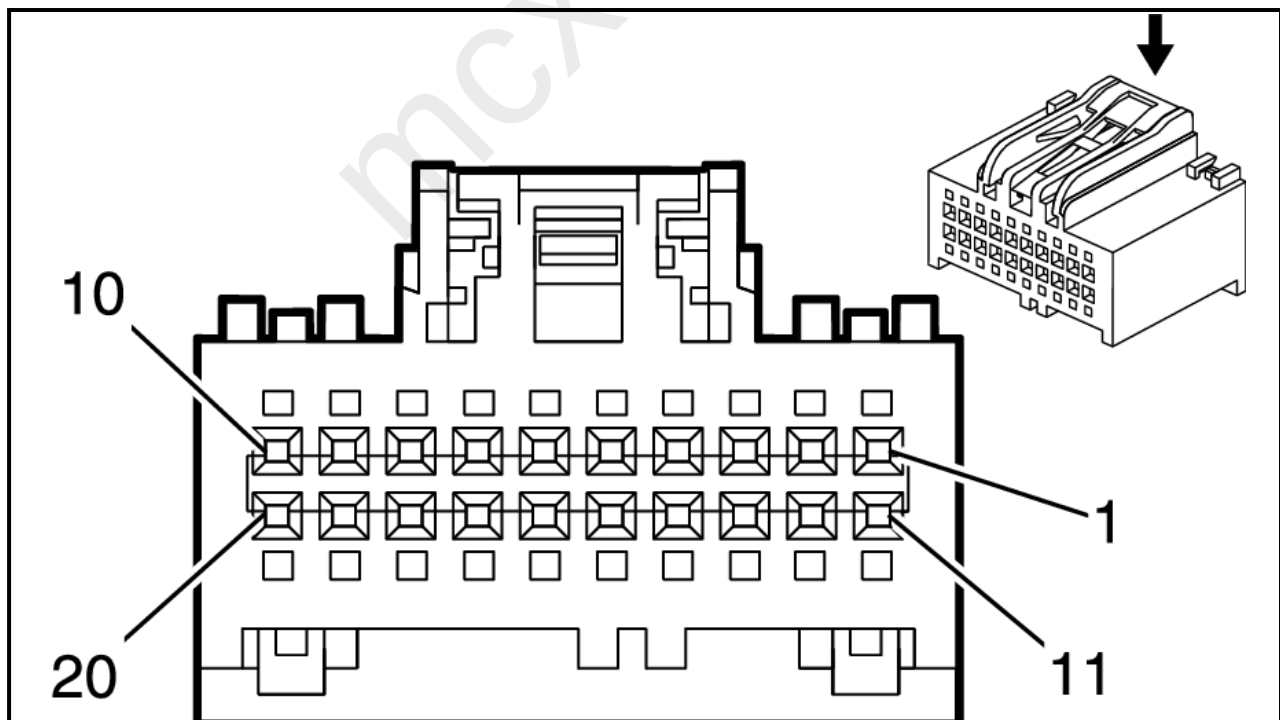
- Harness Type: Instrument Panel
- OEM Connector: 31410-1202
- Service Connector: 15126709
- Description: 20-Way F 64 Series, Sealed (BN)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575867	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35 0.35	RD/BN RD/BN	440 440	Battery Positive Voltage Battery Positive Voltage	I I	C67/CJ2 C67/CJ2/C4P
2	0.35	GN	5060	Low Speed GMLAN Serial Data	I	C67/CJ2/C4P
3	-	-	-	Not Occupied	-	-
4	0.35	GN/YE	7531	Local Interconnect Network Serial Data Bus 9	I	C67/CJ2/C4P
5	0.35	YE/GN	3196	Auxiliary Heater Status Signal	I	C32
6	-	-	-	Not Occupied	-	-
7	0.35	VT	3195	Auxiliary Heater Control	I	C32
8	0.5	BK	1550	Ground	I	C67/CJ2/C4P
9	0.35	VT/BN	141	Run Ignition 3 Voltage	I	C67/CJ2/C4P
10 - 14	-	-	-	Not Occupied	-	-
15	0.35	BU/GY	754	Blower Motor Speed Control	I	C67/CJ2/C4P
16 - 18	-	-	-	Not Occupied	-	-
19	0.35	BN/VT	193	Rear Defog Relay Control	I	C67/CJ2/C4P
20	-	-	-	Not Occupied	-	-

K33 HVAC CONTROL MODULE X3



Connector Part Information

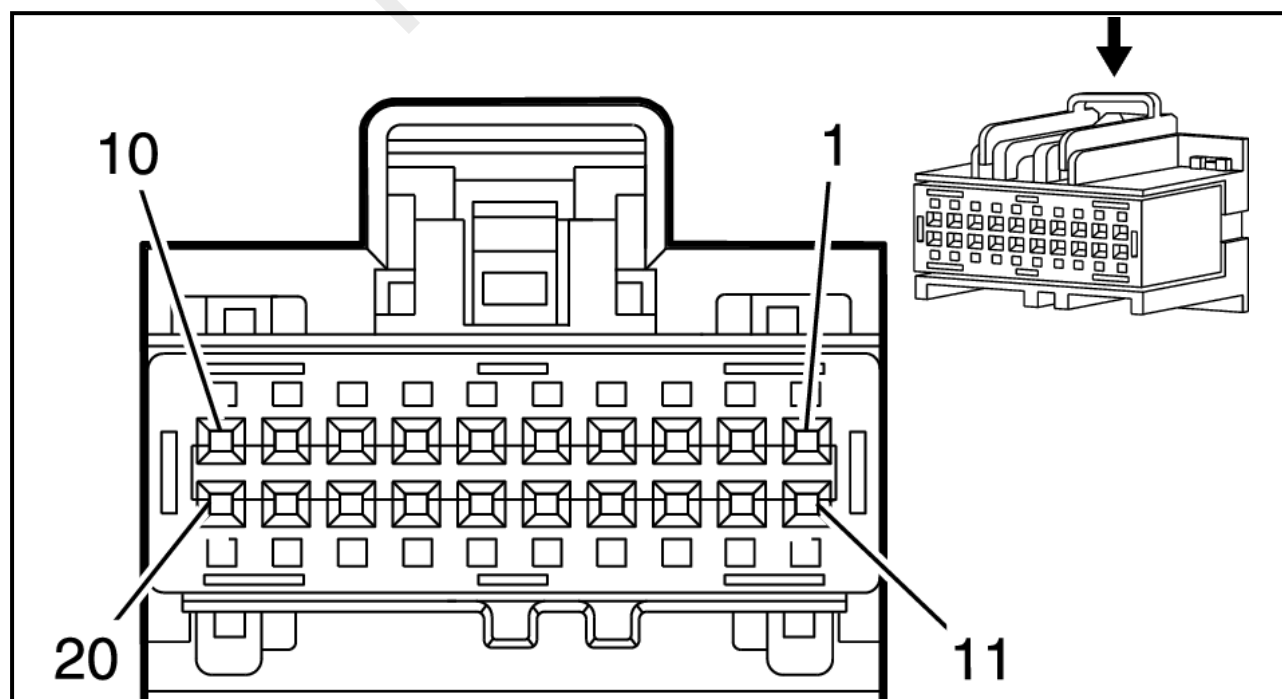
- Harness Type: HVAC
- OEM Connector: 31410-1200
- Service Connector: Service by Harness - See Part Catalog
- Description: 20-Way F 64 Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575867	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GY/GN	12A	Air Temperature Sensor - Duct Left Upper Signal	I	-
2	0.35	YE	6A	Mode Door Control A	I	-
3	0.35	WH/RD	6B	Mode Door Control B	I	-
4	0.35	GY/BN	6C	Mode Door Control C	I	-
5	0.35	GN/WH	6D	Mode Door Control D	I	-
6 - 8	-	-	-	Not Occupied	-	-
9	0.35	BK	7G	Sensor Ground	I	-
10	-	-	-	Not Occupied	-	-
11	0.35	GN	5A	Air Temperature Door Control A	I	-
12	0.35	WH/PK	5B	Air Temperature Door Control B	I	-
13	0.35	GY/RD	5C	Air Temperature Door Control C	I	-
14	0.35	RD/BK	5D	Air Temperature Door Control D	I	-
15	0.35	OG	3D	Battery Positive Voltage	I	-
16	0.35	GY	2A	Recirculation Door Control A	I	-
17	0.35	BU/WH	2B	Recirculation Door Control B	I	-
18	0.35	BN/GN	2C	Recirculation Door Control C	I	-
19	0.35	RD/GN	2D	Recirculation Door Control D	I	-
20	0.35	BK/GY	13A	A/C Evaporator Temperature Sensor Sense	I	-

K33 HVAC CONTROL MODULE X4



Connector Part Information

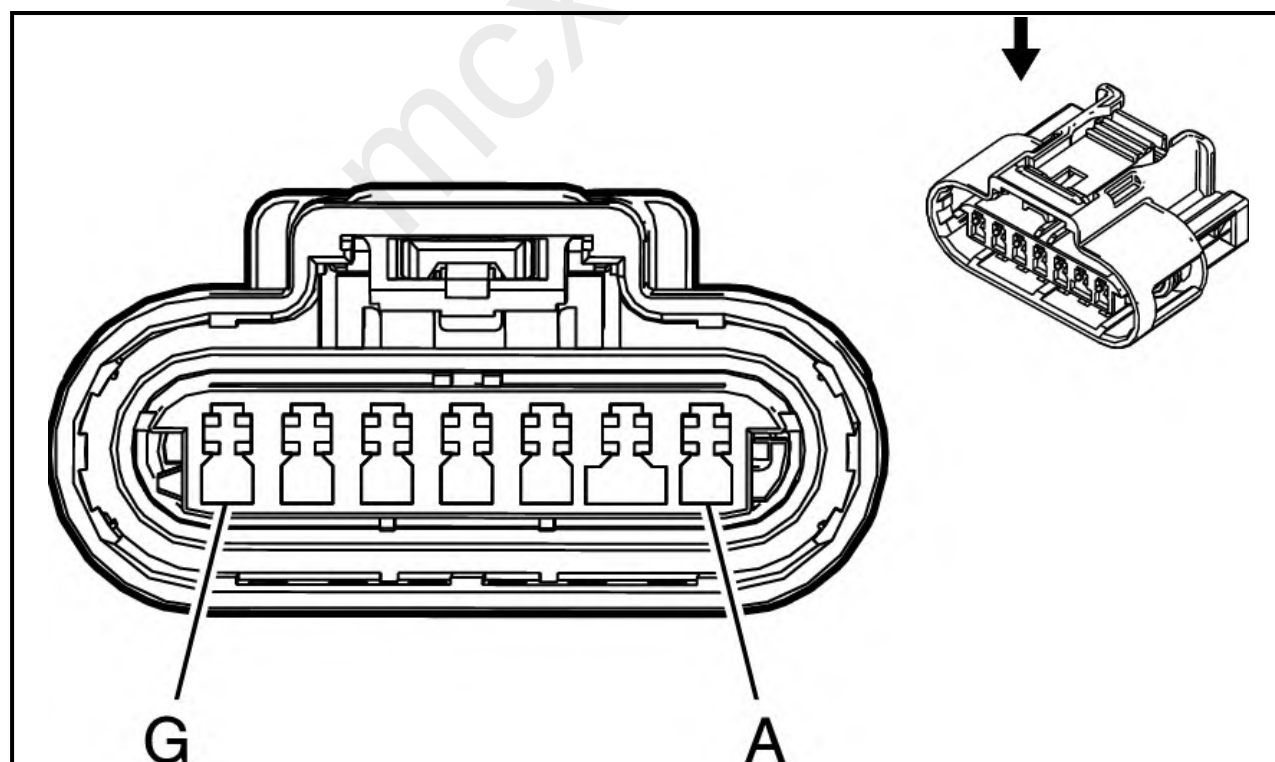
- Harness Type: HVAC
- OEM Connector: 31410-1201
- Service Connector: Service by Harness - See Part Catalog
- Description: 20-Way F 64 Series, Sealed (GY)

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-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 4	-	-	-	Not Occupied	-	-
5	0.35	YE/BK	4A	Air Temperature Door Control A	I	-
6	0.35	VT/BU	4B	Air Temperature Door Control B	I	-
7	0.35	GY/WH	4C	Air Temperature Door Control C	I	-
8	0.35	YE/GY	4D	Air Temperature Door Control D	I	-
9	0.35	VT/GN	10A	Air Temperature Sensor - Duct Right Upper Signal	I	-
10	-	-	-	Not Occupied	-	-
11	0.35	BU	11A	Air Temperature Sensor - Duct Left Lower Signal	I	-
12	0.35	WH/VT	9A	Air Temperature Sensor - Duct Right Lower Signal	I	-
13 - 20	-	-	-	Not Occupied	-	-

K35 IGNITION COIL MODULE (LUV)



Connector Part Information

- Harness Type: Engine
- OEM Connector: F444110
- Service Connector: 19300475

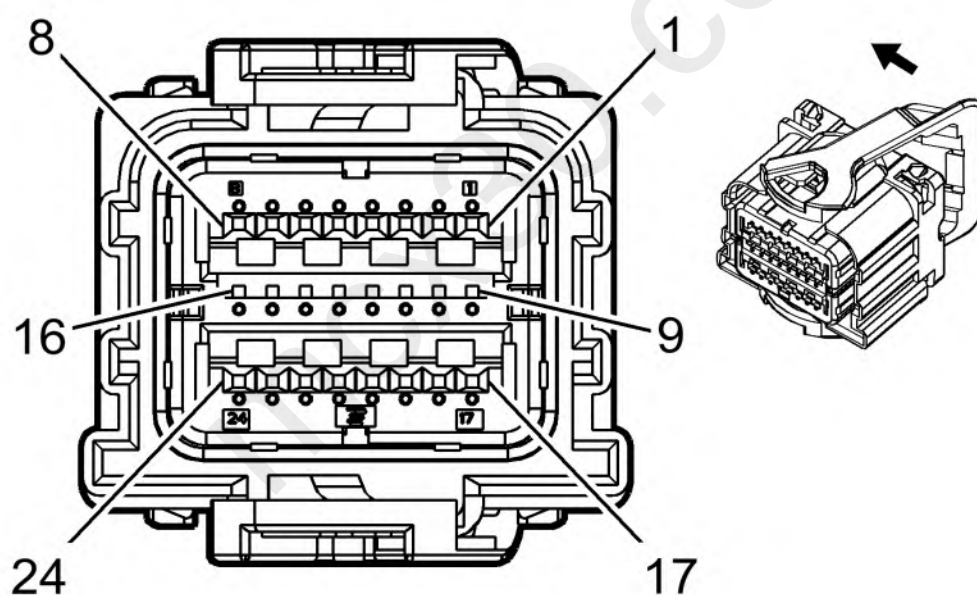
- Description: 7-Way F 2.8 Series, Sealed

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-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	VT/BU	5291	Powertrain Main Relay Fused Supply 2	I	LUV
B	0.75	BK	250	Ground	I	LUV
C	0.5	BK/BU	2129	Ignition Control Low Reference Bank 1	I	LUV
D	0.5	BU/VT	2121	Ignition Control 1	I	LUV
E	0.5	BU/WH	2122	Ignition Control 2	I	LUV
F	0.5	GN/BU	2123	Ignition Control 3	I	LUV
G	0.5	YE/BU	2124	Ignition Control 4	I	LUV

K36 INFLATABLE RESTRAINT SENSING AND DIAGNOSTIC MODULE X1 (AY0)



Connector Part Information

- Harness Type: Instrument Panel
- OEM Connector: 2098923-7
- Service Connector: 19299778
- Description: 24-Way F 0.64 Series, Sealed (YE)

Terminal Part Information

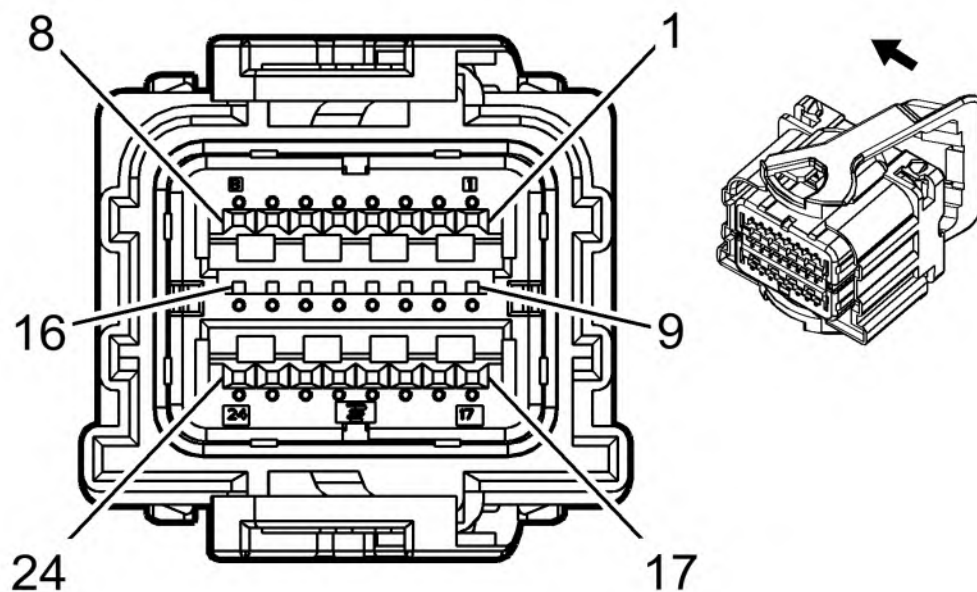
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
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Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19328872	J-35616-64B (LT BU)	J-38125-11A	Not Available	Not Available	Not Available	Not Available

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	OG/GN	3023	Steering Wheel Module Stage 2 High Control	I	-
2	0.35	WH/OG	3022	Steering Wheel Module Stage 2 Low Control	I	-
3	0.35	BN/OG	3020	Steering Wheel Module Stage 1 Low Control	I	-
4	0.35	OG/VT	3021	Steering Wheel Module Stage 1 High Control	I	-
5	0.35	YE/OG	3025	Passenger IP Module Stage 1 High Control	I	-
6	0.35	OG/WH	3024	Passenger IP Module Stage 1 Low Control	I	-
7	0.35	OG/VT	3026	Passenger IP Module Stage 2 Low Control	I	-
8	0.35	GY/OG	3027	Passenger IP Module Stage 2 High Control	I	-
9	0.35	RD/GN	1202	Battery Positive Voltage	I	-
10	0.35	VT/WH	5234	Passenger Seat Belt Indicator Control	I	-
11	0.35	BU	2307	Passenger Air Bag On Indicator Control	I	-
12	0.35	GN	2308	Passenger Air Bag Off Indicator Control	I	-
13 - 14	-	-	-	Not Occupied	-	-
15	0.35	GN	5060	Low Speed GMLAN Serial Data	I	-
16	-	-	-	Not Occupied	-	-
17	0.5	WH/BU	5986	Serial Data Communication Enable	I	-
18	0.5	BU/YE	6105	High Speed GMLAN Serial Data (+) 2	I	-
19	0.5	BK/WH	1951	Signal Ground	I	-
20	0.5	WH	6106	High Speed GMLAN Serial Data (-) 2	I	-
21 - 24	-	-	-	Not Occupied	-	-

K36 INFLATABLE RESTRAINT SENSING AND DIAGNOSTIC MODULE X1 (AYF)

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Connector Part Information

- Harness Type: Instrument Panel
- OEM Connector: 2098923-1
- Service Connector: 19299778
- Description: 24-Way F 0.64 Series, Sealed (YE)

Terminal Part Information

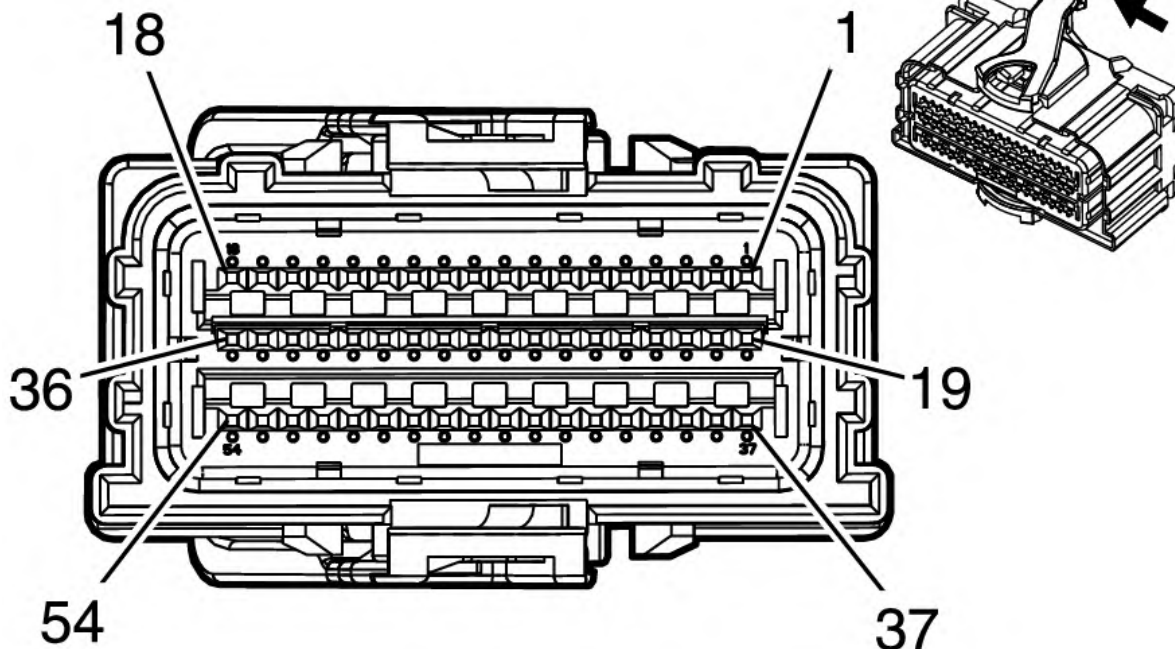
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19328872	J-35616-64B (LT BU)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
II	19368490	J-35616-64B (LT BU)	J-38125-11A	Not Available	Not Available	Not Available	Not Available

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35 0.35	OG/GN OG/GN	3023 3023	Steering Wheel Module Stage 2 High Control Steering Wheel Module Stage 2 High Control	I I	AYF AYF+BTM
2	0.35 0.35	WH/OG WH/OG	3022 3022	Steering Wheel Module Stage 2 Low Control Steering Wheel Module Stage 2 Low Control	I I	AYF AYF+BTM
3	0.35 0.35	BN/OG BN/OG	3020 3020	Steering Wheel Module Stage 1 Low Control Steering Wheel Module Stage 1 Low Control	I I	AYF AYF+BTM
4	0.35 0.35	OG/VT OG/VT	3021 3021	Steering Wheel Module Stage 1 High Control Steering Wheel Module Stage 1 High Control	I I	AYF AYF+BTM

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
5	0.35	YE/OG	3025	Passenger IP Module Stage 1 High Control	I	AYF
6	0.35	OG/WH	3024	Passenger IP Module Stage 1 Low Control	I	AYF
7	0.35	OG/VT	3026	Passenger IP Module Stage 2 Low Control	I	AYF
8	0.35	GY/OG	3027	Passenger IP Module Stage 2 High Control	I	AYF
9	0.35	RD/GN	1202	Battery Positive Voltage	I	AYF
10	0.35	VT/WH	5234	Passenger Seat Belt Indicator Control	I	AYF
11	0.35	BU	2307	Passenger Air Bag On Indicator Control	I	AYF
12	0.35	GN	2308	Passenger Air Bag Off Indicator Control	I	AYF
13 - 14	-	-	-	Not Occupied	-	-
15	0.35	GN	5060	Low Speed GMLAN Serial Data	I	AYF
16	-	-	-	Not Occupied	-	-
17	0.5	WH/BU	5986	Serial Data Communication Enable	II	AYF
18	0.5	BU/YE	6105	High Speed GMLAN Serial Data (+) 2	I	AYF
	0.5	BU/YE	6105	High Speed GMLAN Serial Data (+) 2	II	AYF+BTM
19	0.5	BK/WH	1951	Signal Ground	II	AYF
20	0.5	WH	6106	High Speed GMLAN Serial Data (-) 2	I	AYF
	0.5	WH	6106	High Speed GMLAN Serial Data (-) 2	II	AYF+BTM
21	0.35	OG/BU	3078	Driver Knee Module High Control	I	AYF
22	0.35	GY/OG	3079	Driver Knee Module Low Control	I	AYF
23	0.35	WH/OG	3077	Passenger Knee Module Low Control	I	AYF
24	0.35	OG/BU	3076	Passenger Knee Module High Control	I	AYF

K36 INFLATABLE RESTRAINT SENSING AND DIAGNOSTIC MODULE X2 (AY0/AYF)

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Connector Part Information

- Harness Type: Body
- OEM Connector: 4-2098922-4
- Service Connector: 19300394
- Description: 54-Way F 0.64 Series, Sealed (YE)

Terminal Part Information

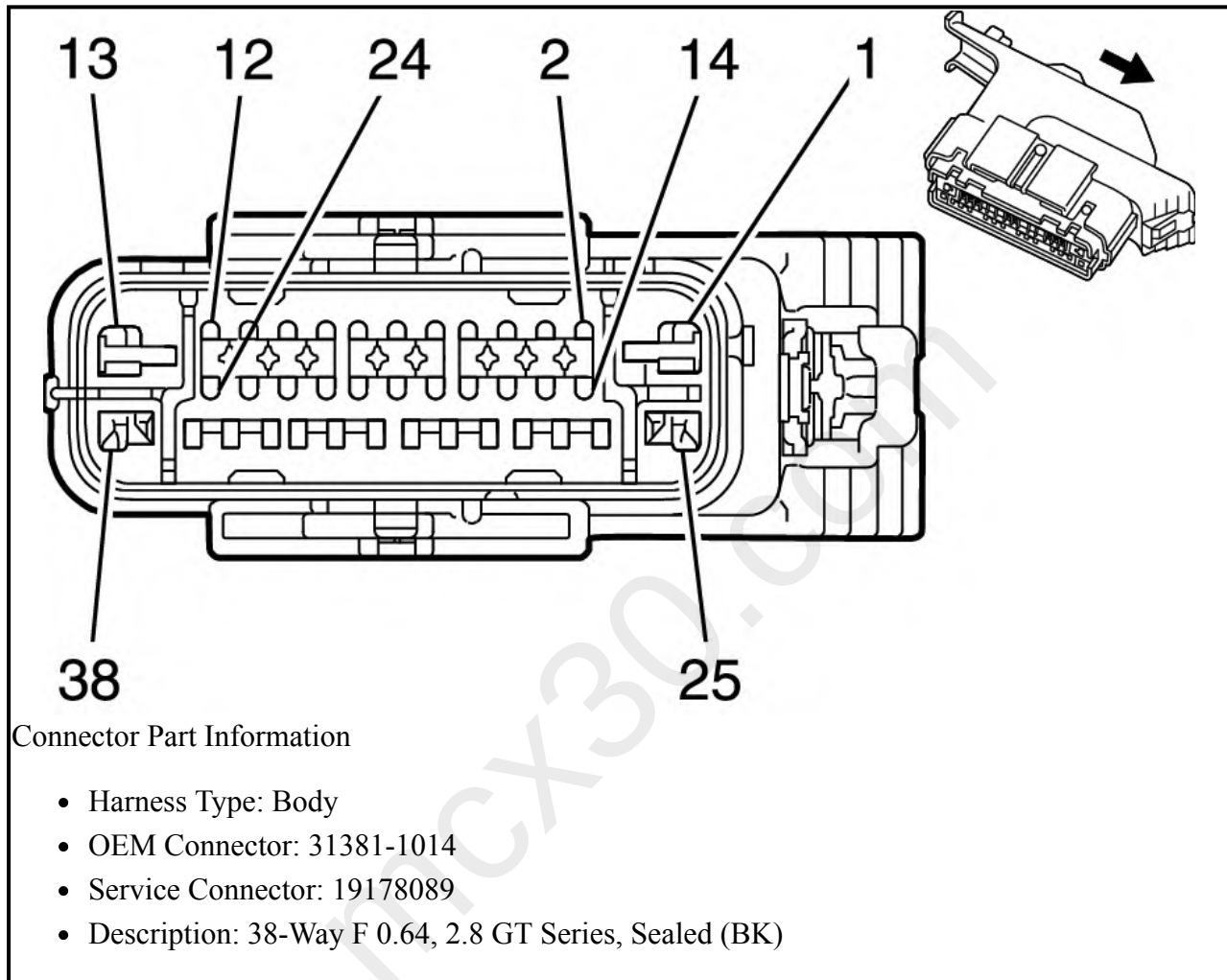
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19328872	J-35616-64B (LT BU)	J-38125-11A	Not Available	Not Available	Not Available	Not Available

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	-	-	-	Not Occupied	-	-
3	0.35	OG/GY	5226	Right Rear Side Impact SIR Inflator Control	I	-
4	0.35	VT/OG	5225	Right Rear Side Impact SIR Inflator Control	I	-
5 - 6	-	-	-	Not Occupied	-	-
7	0.35	BN/OG	5224	Left Rear Side Impact SIR Inflator Control	I	-
8	0.35	OG/GY	5223	Left Rear Side Impact SIR Inflator Control	I	-
9	0.35	OG/WH	3064	Driver Seat Belt Buckle Pretensioner High Control	I	-
10	0.35	YE/OG	3065	Driver Seat Belt Buckle Pretensioner Low Control	I	-
11	0.35	BU/OG	3063	Passenger Seat Belt Buckle Pretensioner Low Control	I	-
12	0.35	OG/BN	3062	Passenger Seat Belt Buckle Pretensioner High Control	I	-
13	0.35	OG/BU	3068	Driver Side Impact Module High Control	I	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
14	0.35	GN/OG	3069	Driver Side Impact Module Low Control	I	-
15	0.35	BN/OG	3067	Passenger Side Impact Module Low Control	I	-
16	0.35	OG/GY	3066	Passenger Side Impact Module High Control	I	-
17	0.5	OG/GN	5019	Left Front Head Curtain Module High Control	I	-
18	0.5	VT/OG	5020	Left Front Head Curtain Module Low Control	I	-
19	0.35	OG/GN	2132	Left Front Side Impact Sensing Module Signal	I	-
20	0.35	BK/OG	6628	Left Front Side Impact Sensing Module Low Reference	I	-
21	0.35	BK/OG	6629	Right Front Side Impact Sensing Module Low Reference	I	-
22	0.35	BN/OG	2134	Right Front Side Impact Sensing Module Signal	I	-
23	0.35	OG/YE	354	Left Front Discriminating Sensor Signal	I	-
24	0.35	BK/OG	5045	Left Front Discriminating Sensor Low Reference	I	-
25	0.35	BK/OG	5600	Right Front Discriminating Sensor Low Reference	I	-
26	0.35	OG/GN	1409	Right Front Discriminating Sensor Signal	I	-
27	0.35	OG/BU	6622	Left Rear Side Impact Sensing Module Signal	I	-
28	0.35	BK/OG	6623	Left Rear Side Impact Sensing Module Low Reference	I	-
29	0.35	BK/OG	6627	Right Rear Side Impact Sensing Module Low Reference	I	-
30	0.35	OG/WH	6626	Right Rear Side Impact Sensing Module Signal	I	-
31 - 36	-	-	-	Not Occupied	-	-
37	0.35	OG/WH	3477	Driver Seat Belt Retractor Pretensioner High Control	I	-
38	0.35	GY/OG	3478	Driver Seat Belt Retractor Pretensioner Low Control	I	-
39	0.35	WH/OG	3476	Passenger Seat Belt Retractor Pretensioner Low Control	I	-
40	0.35	OG/GN	3475	Passenger Seat Belt Retractor Pretensioner High Control	I	-
41	0.35	OG/BN	238	Driver Seat Belt Switch Signal	I	-
42	-	-	-	Not Occupied	-	-
43	0.35	BK/OG	1363	Driver Seat Belt Switch Low Reference	I	-
44	0.35	BK/OG	1361	Passenger Seat Belt Switch Low Reference	I	-
45	0.35	OG/VT	1362	Passenger Seat Belt Switch Signal	I	-
46	-	-	-	Not Occupied	-	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
47	0.35	OG/BN	7571	Passenger Seat Belt Reminder Signal	I	-
48 - 52	-	-	-	Not Occupied	-	-
53	0.5	OG/GY	5021	Right Front Head Curtain Module High Control	I	-
54	0.5	WH/OG	5022	Right Front Head Curtain Module Low Control	I	-

K38 CHASSIS CONTROL MODULE



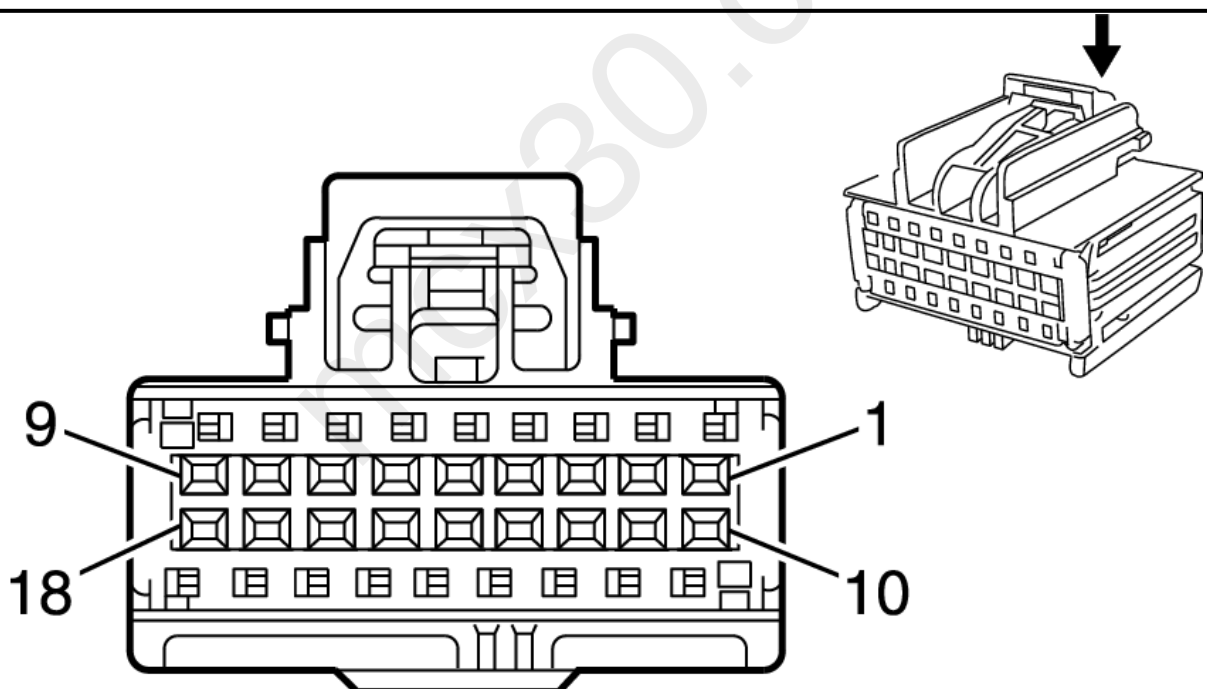
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13576407	J-35616-4A (PU)	J-38125-553	15304720	Delphi 19	4	5
II	13578924	J-35616-64B (LT BU)	J-38125-215A	SAITS-A03T-M064	Yazaki 14	9	9

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	RD/GN	3140	Battery Positive Voltage	I	-
2 - 4	-	-	-	Not Occupied	-	-
5	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	II	-
6 - 7	-	-	-	Not Occupied	-	-
8	0.5	VT/YE	5985	Accessory Wakeup Serial Data	II	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
9	-	-	-	Not Occupied	-	-
10	0.5	BU/WH	7446	Fuel Line Pressure Sensor Signal	II	-
11 - 12	-	-	-	Not Occupied	-	-
13	1.5	GY	120	Fuel Pump Control	I	-
14 - 16	-	-	-	Not Occupied	-	-
17	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	II	-
18 - 19	-	-	-	Not Occupied	-	-
20	0.5	GN/GY	465	Fuel Pump Primary Relay Control	II	-
21	0.5	VT/GN	839	Run/Crank Ignition 1 Voltage	II	-
22	0.5	BN/RD	7445	Fuel Line Pressure Sensor 5V Reference	II	-
23	0.5	BK/YE	7447	Fuel Line Pressure Sensor Low Reference	II	-
24	0.35	BU	7443	Fuel System Control Module Shield Ground Extension	II	-
25	1.5	BK	1350	Ground	I	-
26 - 37	-	-	-	Not Occupied	-	-
38	1.5	BK/GN	1580	Fuel Pump Low Reference	I	-

K40 SEAT MEMORY CONTROL MODULE X1 (AAG)



Connector Part Information

- Harness Type: DRIVER SEAT
- OEM Connector: 7283-4544-30
- Service Connector: Service by Harness - See Part Catalog
- Description: 18-Way F 0.64 Kaizen Series (BK)

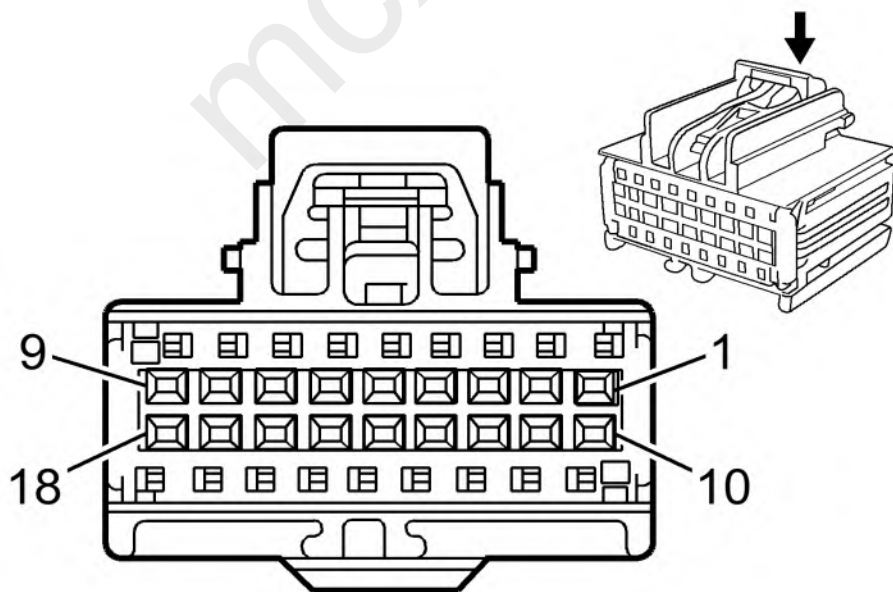
Terminal Part Information

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

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
1	-	-	-	Not Occupied	-	-
2	-	GN/BN	1518	Power Seat Front Vertical Up Switch Signal	I	-
3	-	YE	1519	Power Seat Rear Vertical Up Switch Signal	I	-
4	-	YE/BU	1521	Power Seat Rear Vertical Down Switch Signal	I	-
5 - 10	-	-	-	Not Occupied	-	-
11	-	GN/WH	7530	Local Interconnect Network Serial Data Bus 8	I	-
12	-	BU/VT	1520	Power Seat Front Vertical Down Switch Signal	I	-
13	-	WH/RD	3298	Memory Sensor High Reference 2	I	-
14	-	-	-	Not Occupied	-	-
15	-	GN	569	Memory Seat Horizontal Motor Position Sensor Signal	I	-
16	-	YE/BU	568	Memory Seat Rear Vertical Motor Position Sensor Signal	I	-
17	-	BN/WH	557	Memory Seat Front Vertical Motor Position Sensor Signal	I	-
18	-	-	-	Not Occupied	-	-

K40 SEAT MEMORY CONTROL MODULE X2 (AAG)



Connector Part Information

- Harness Type: DRIVER SEAT
- OEM Connector: 7283-4548-60

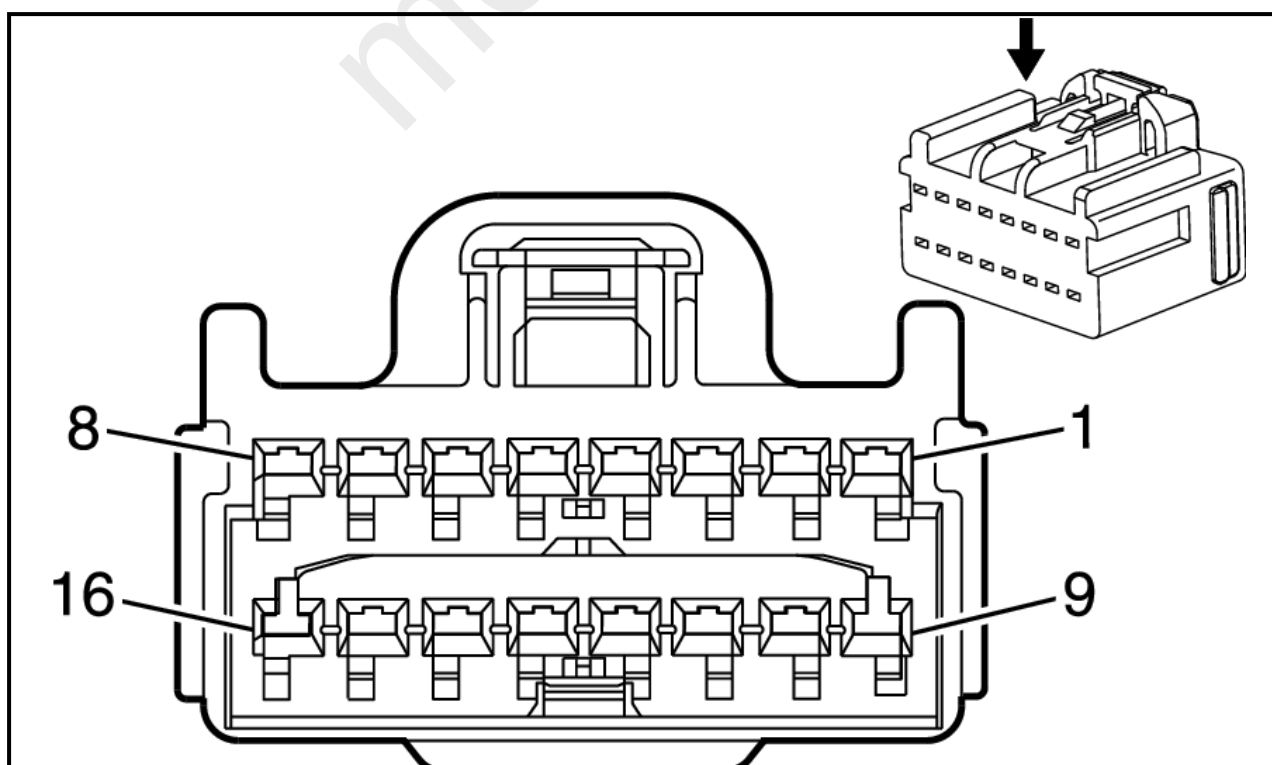
- Service Connector: Service by Harness - See Part Catalog
- Description: 18-Way F 0.64 Kaizen Series (GN)

Terminal Part Information

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	YE/BN	1522	Power Seat Horizontal Forward Switch Signal	I	-
2 - 3	-	-	-	Not Occupied	-	-
4	-	BU/GN	614	Memory Seat Switch Set Signal	I	-
5 - 6	-	-	-	Not Occupied	-	-
7	-	WH/GY	2434	Passenger Heated Seat NTC Signal	I	-
8 - 10	-	-	-	Not Occupied	-	-
11	-	GY/GN	1523	Power Seat Horizontal Rearward Switch Signal	I	-
12 - 13	-	-	-	Not Occupied	-	-
14	-	WH	615	Memory Seat Switch Signal 1	I	-
15	-	-	-	Not Occupied	-	-
16	-	YE/GY	2079	Driver Heated Seat NTC Signal	I	-
17	-	-	-	Not Occupied	-	-
18	-	GN	5060	Low Speed GMLAN Serial Data	I	-

K40 SEAT MEMORY CONTROL MODULE X3 (AAG)



Connector Part Information

- Harness Type: DRIVER SEAT

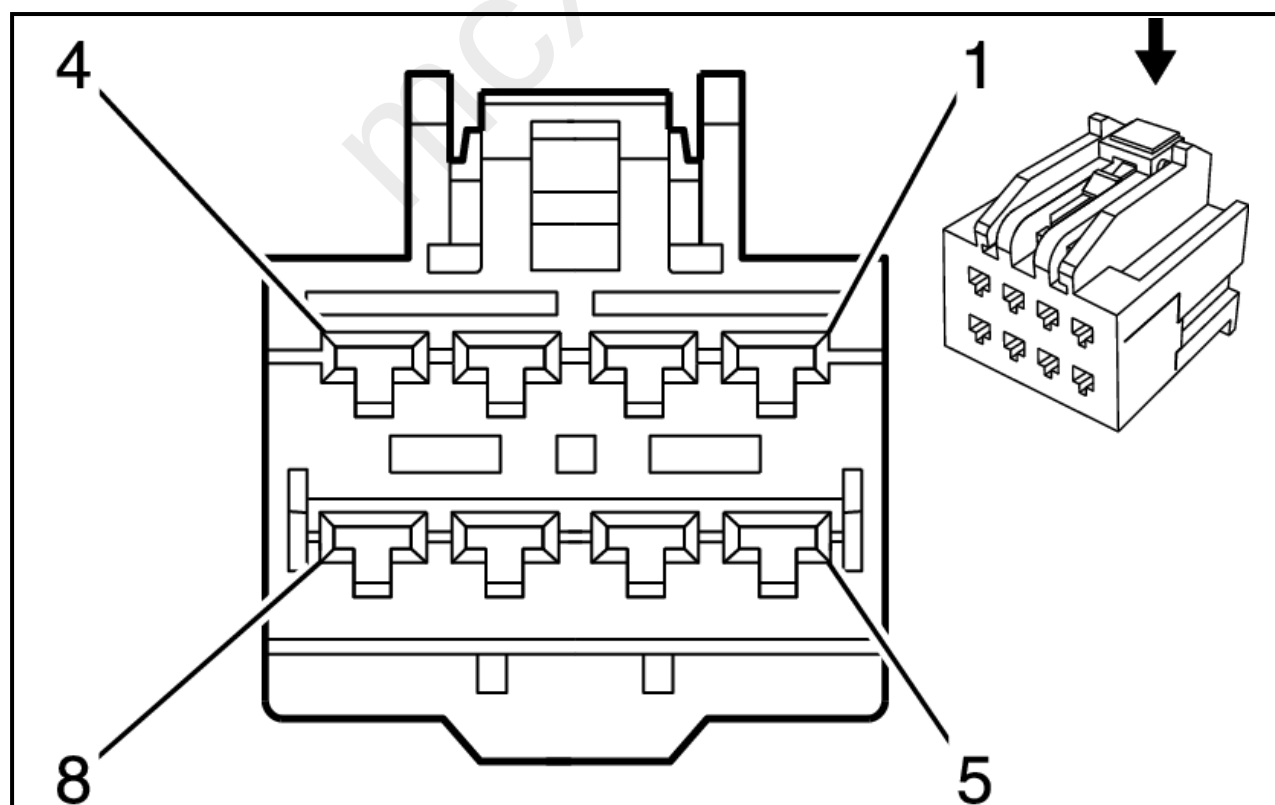
- OEM Connector: 7283-6453-60
- Service Connector: Service by Harness - See Part Catalog
- Description: 16-Way F 1.5 Kaizen Series (GN)

Terminal Part Information

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	BK/GY	2435	Passenger Heated Seat NTC Low Reference	I	-
2 - 3	-	-	-	Not Occupied	-	-
4	-	BU/BK	2433	Passenger Heated Back Element Low Reference	I	-
5	-	-	-	Not Occupied	-	-
6	-	VT/BK	2424	Driver Heated Back Element Low Reference	I	-
7 - 9	-	-	-	Not Occupied	-	-
10	-	BN/BU	2479	Passenger Heated Seat Element Control	I	-
11	-	BN/VT	2077	Driver Heated Seat Element Control	I	-
12	-	BK/YE	2080	Driver Heated Seat NTC Low Reference	I	-
13 - 16	-	-	-	Not Occupied	-	-

K40 SEAT MEMORY CONTROL MODULE X4 (AAG)



Connector Part Information

- Harness Type: DRIVER SEAT

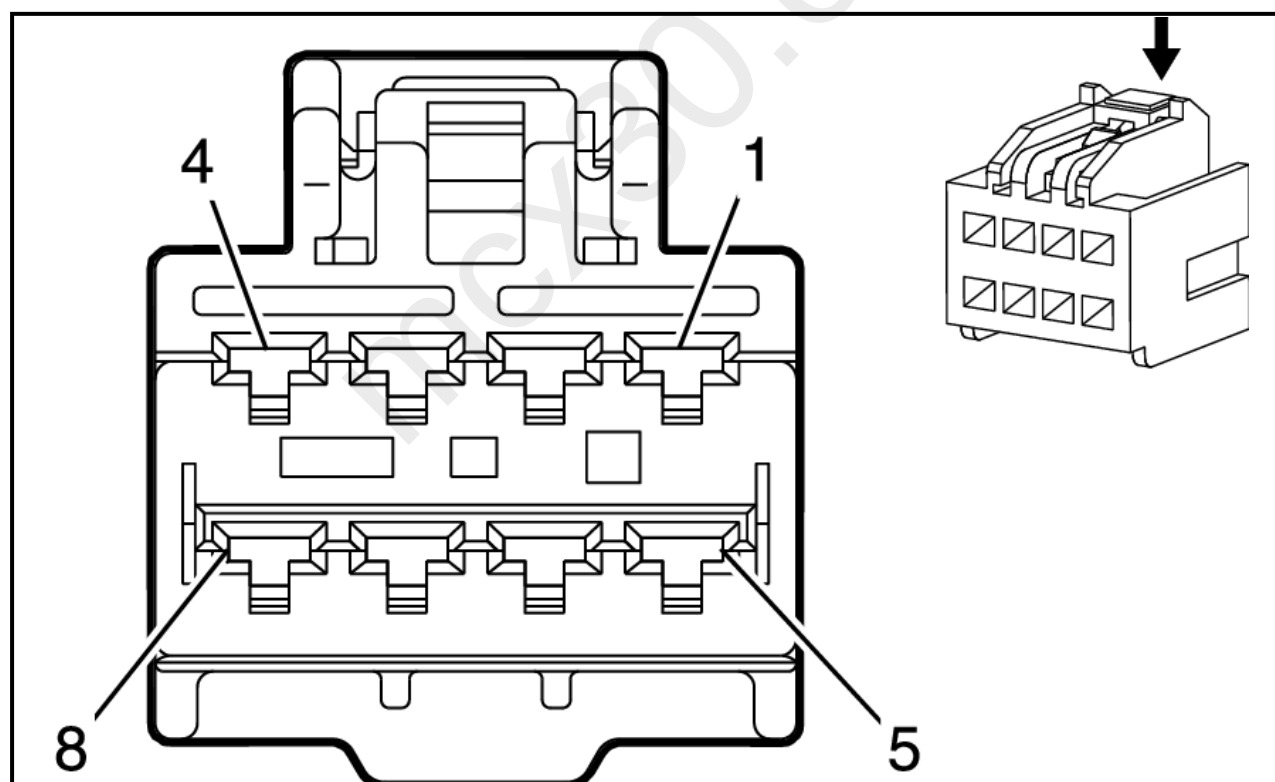
- OEM Connector: 6098-4798
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way F 2.8 Series (GY)

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	RD/YE	3740	Battery Positive Voltage	I	-
2	-	BK/BU	5978	Memory Switch Low Reference	I	-
3 - 4	-	-	-	Not Occupied	-	-
5	-	RD/WH	2040	Battery Positive Voltage	I	-
6	-	BK	850	Ground	I	-
7	-	GN/BN	286	Driver Power Seat Front Vertical Motor Up Control	I	-
8	-	BU/VT	287	Driver Power Seat Front Vertical Motor Down Control	I	-

K40 SEAT MEMORY CONTROL MODULE X5 (AAG)



Connector Part Information

- Harness Type: DRIVER SEAT
- OEM Connector: 6098-4713
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way F 2.8 Series (BK)

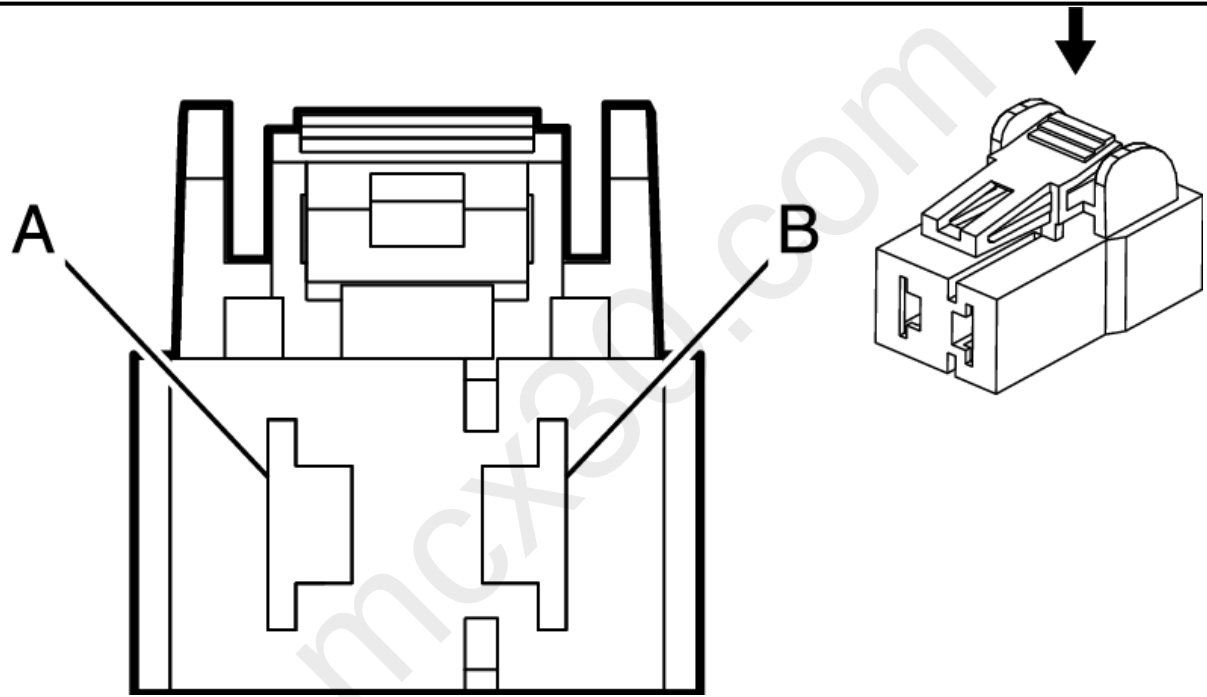
Terminal Part Information

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	YE/BU	285	Driver Power Seat Horizontal Motor Forward Control	I	-
2	-	GY/GN	284	Driver Power Seat Horizontal Motor Rearward Control	I	-
3	-	GY/BU	283	Driver Power Seat Rear Vertical Motor Down Control	I	-
4	-	YE	282	Driver Power Seat Rear Vertical Motor Up Control	I	-
5 - 8	-	-	-	Not Occupied	-	-

K43 POWER STEERING CONTROL MODULE X1



Connector Part Information

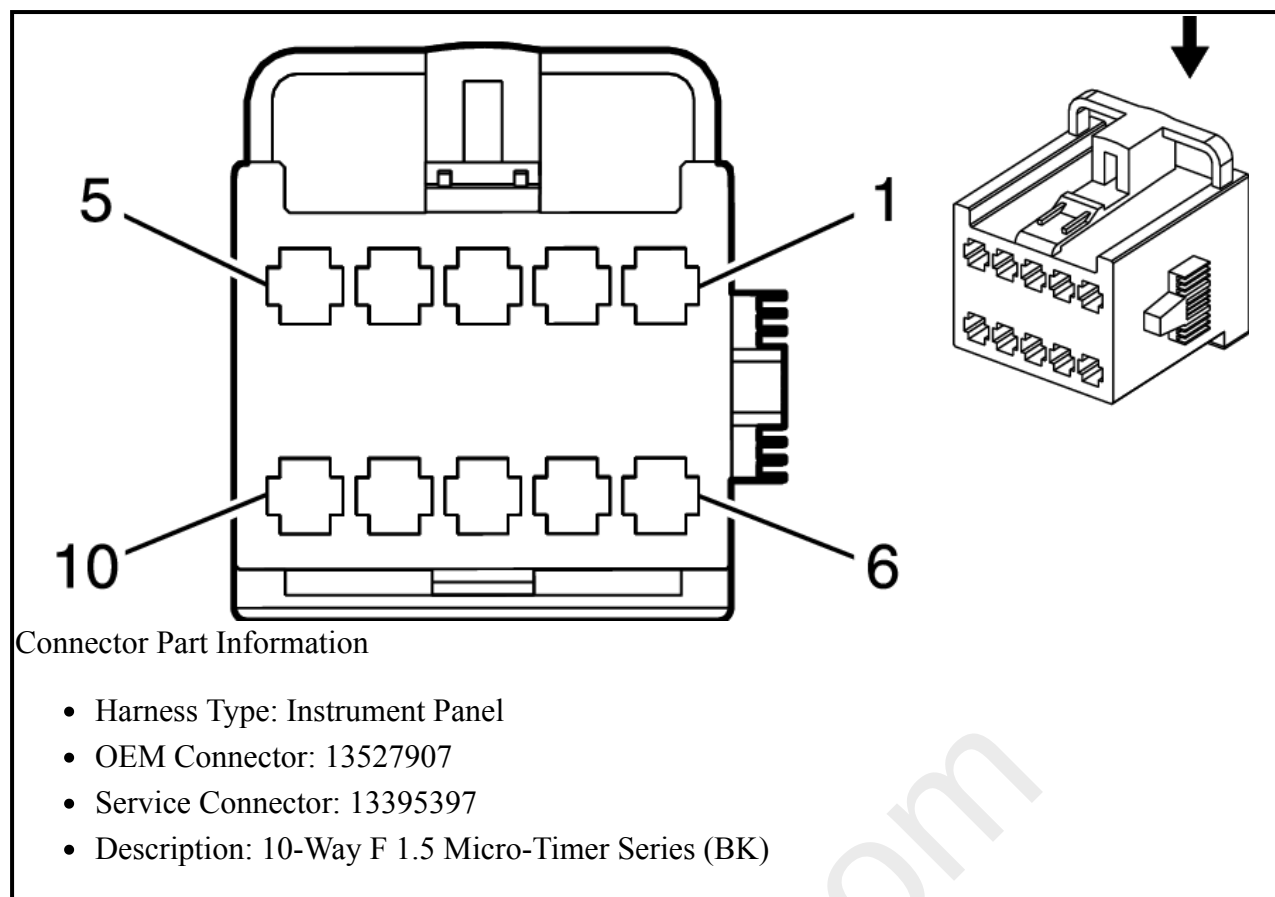
- Harness Type: Body
- OEM Connector: 45-40312
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 8.0 Series (BK)

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	8	RD/BN	202	Battery Positive Voltage	I	-
B	8	BK	650	Ground	I	-

K43 POWER STEERING CONTROL MODULE X2



Connector Part Information

- Harness Type: Instrument Panel
- OEM Connector: 13527907
- Service Connector: 13395397
- Description: 10-Way F 1.5 Micro-Timer Series (BK)

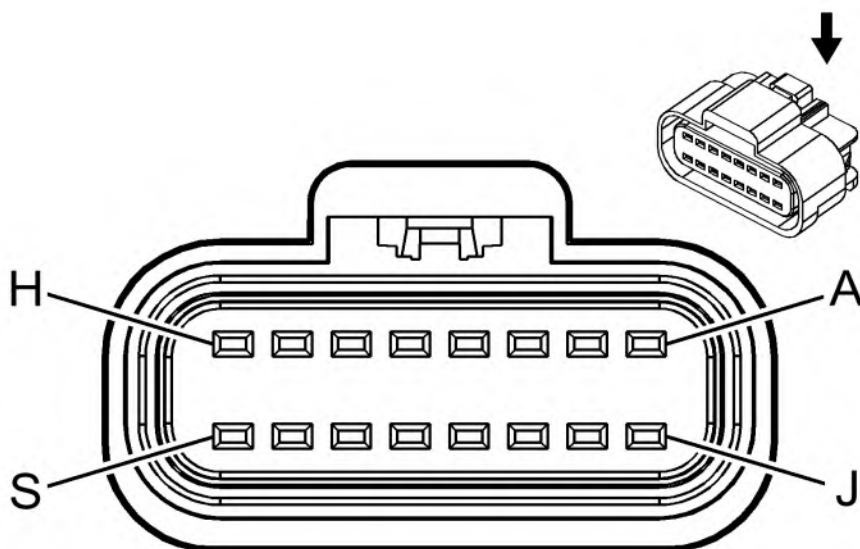
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575471	J-35616-14 (GN)	J-38125-560	964274-2	Lear 16	E	1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/BU	5986	Serial Data Communication Enable	I	-
2	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	I	-
3	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	-
4 - 10	-	-	-	Not Occupied	-	-

K47 REAR DIFFERENTIAL CLUTCH CONTROL MODULE X1





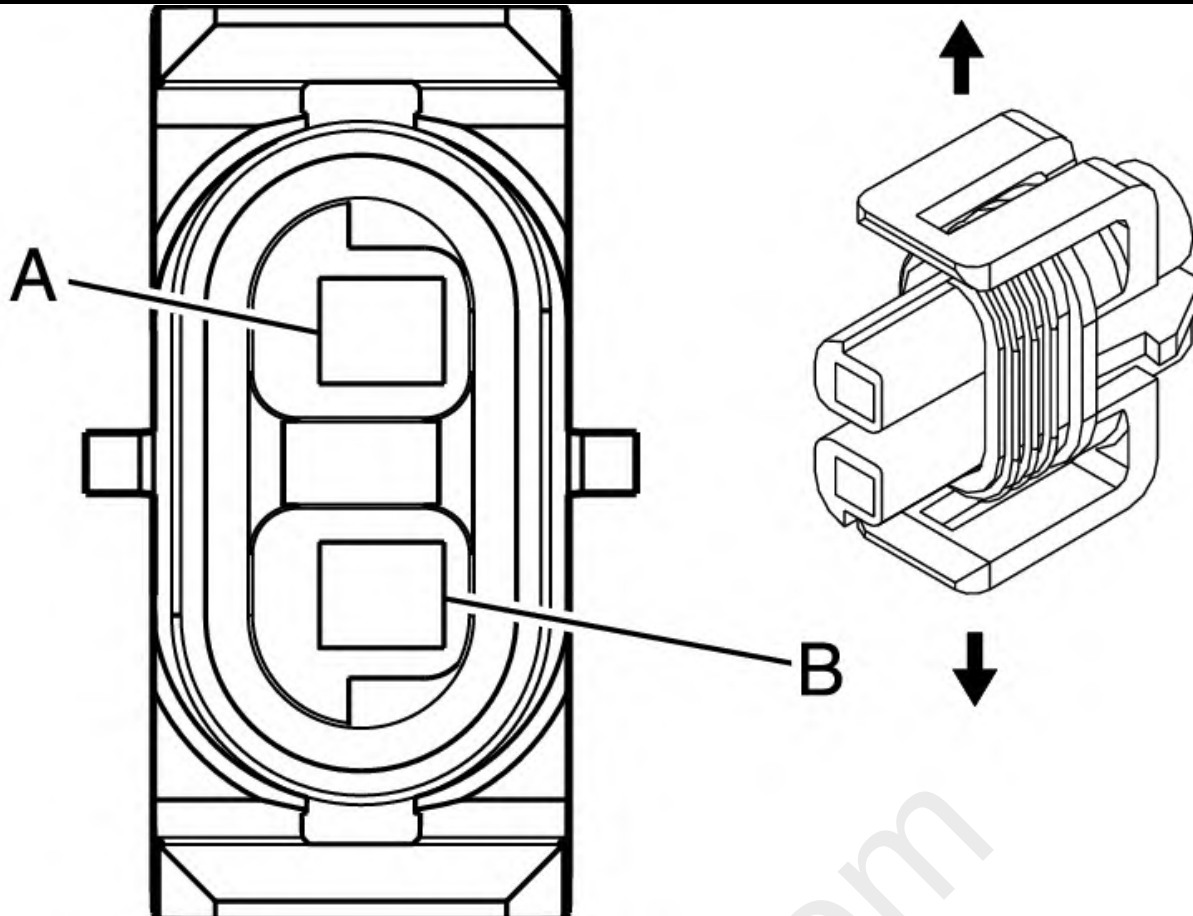
Connector Part Information

- Harness Type: Rear Axle
- OEM Connector: 15479300
- Service Connector: Service by Harness - See Part Catalog
- Description: 16-Way F 150 GT Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	RD/BN	2940	Battery Positive Voltage	I	F46
B - D	-	-	-	Not Occupied	-	-
E	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	I	-
F	-	-	-	Not Occupied	-	-
G	0.5	BU/YE	6105	High Speed GMLAN Serial Data (+) 2	I	-
H	-	-	-	Not Occupied	-	-
J	0.5	WH/BU	5986	Serial Data Communication Enable	I	-
K	0.5	BK	1250	Ground	I	F46
L - M	-	-	-	Not Occupied	-	-
N	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	F46
P	-	-	-	Not Occupied	-	-
R	0.5	WH	6106	High Speed GMLAN Serial Data (-) 2	I	F46
S	-	-	-	Not Occupied	-	-



Connector Part Information

- Harness Type: REAR AXLE
- OEM Connector: 12162017
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 150 Metri-Pack Series, Sealed (GY)

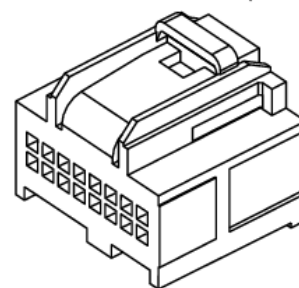
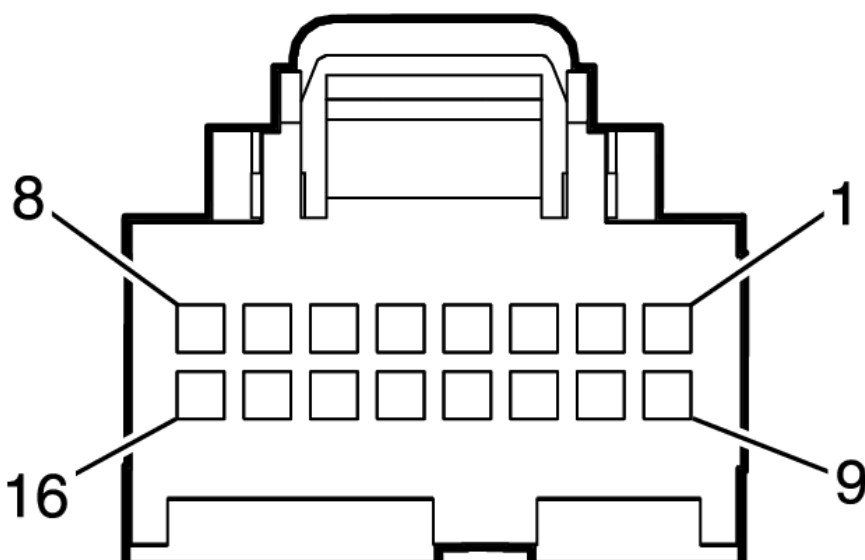
Terminal Part Information

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	-	BK	987	-	I	-
B	-	RD	933	-	I	-

K56 SERIAL DATA GATEWAY MODULE X1





Connector Part Information

- Harness Type: Instrument Panel
- OEM Connector: 33104224
- Service Connector: 13594065
- Description: 16-Way F 0.64 OCS Series (BK)

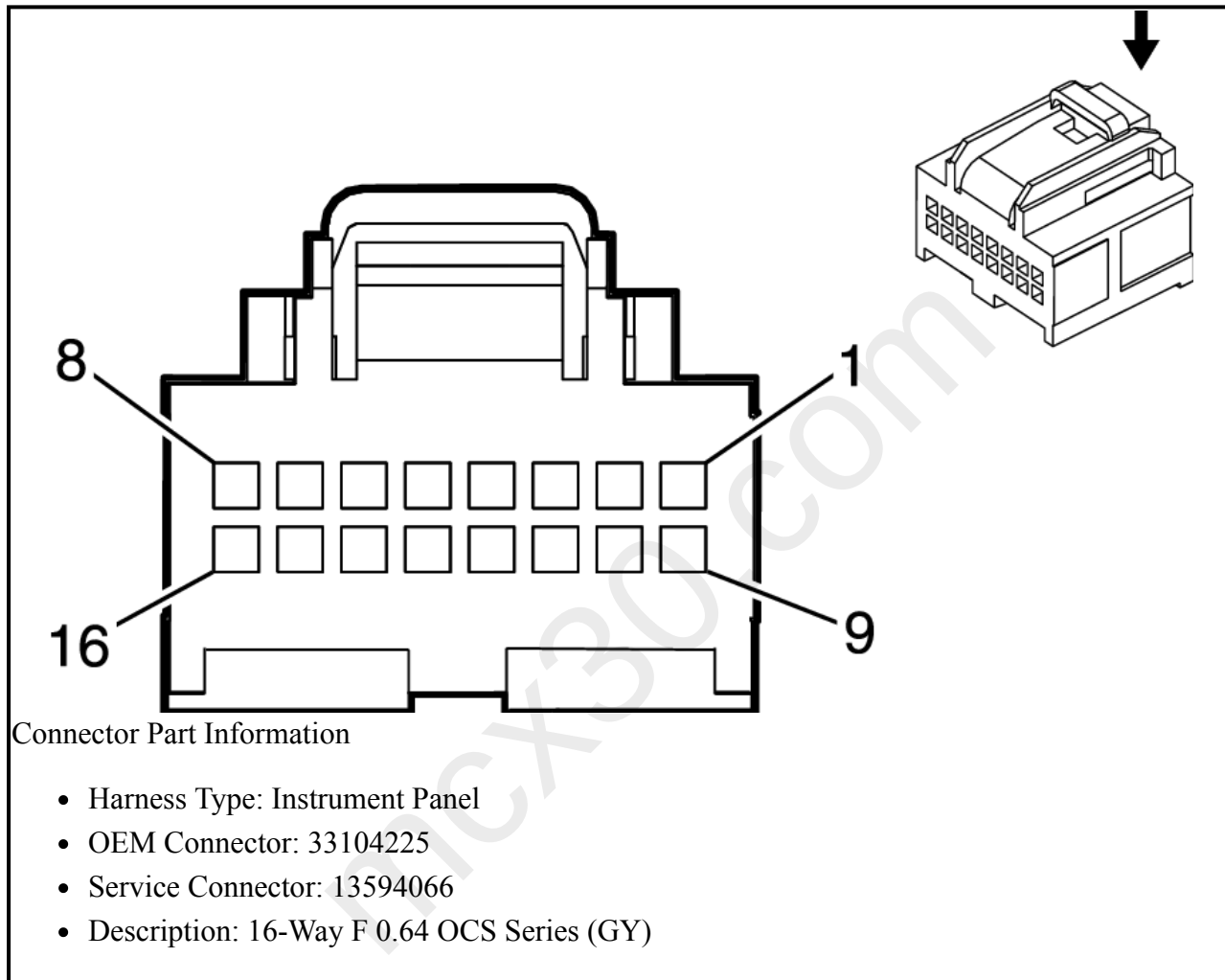
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13587581	J-35616-64B (LT BU)	J-38616-12A	Not Available	Not Available	Not Available	Not Available
II	19300660	J-35616-64B (LT BU)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	-	-	-	Not Occupied	-	-
3	0.35	BU/GN	1304	High Speed GMLAN Serial Data (+) 9	II	-
4	0.35	WH/GN	1305	High Speed GMLAN Serial Data (-) 9	II	-
5 - 6	-	-	-	Not Occupied	-	-
7	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	I	-
8	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	-
9	-	-	-	Not Occupied	-	-
10	0.5	WH/BU	5986	Serial Data Communication Enable	I	-
11	0.35	BU/GN	1304	High Speed GMLAN Serial Data (+) 9	II	-
12	0.35	WH/GN	1305	High Speed GMLAN Serial Data (-) 9	II	-

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
13	0.35	BU/GN	1304	High Speed GMLAN Serial Data (+) 9	II	-
14	0.35	WH/GN	1305	High Speed GMLAN Serial Data (-) 9	II	-
15	0.35	GN	5060	Low Speed GMLAN Serial Data	I	-
16	0.35	GY/GN	1102	Low Speed GMLAN Serial Data #2	I	-

K56 SERIAL DATA GATEWAY MODULE X2

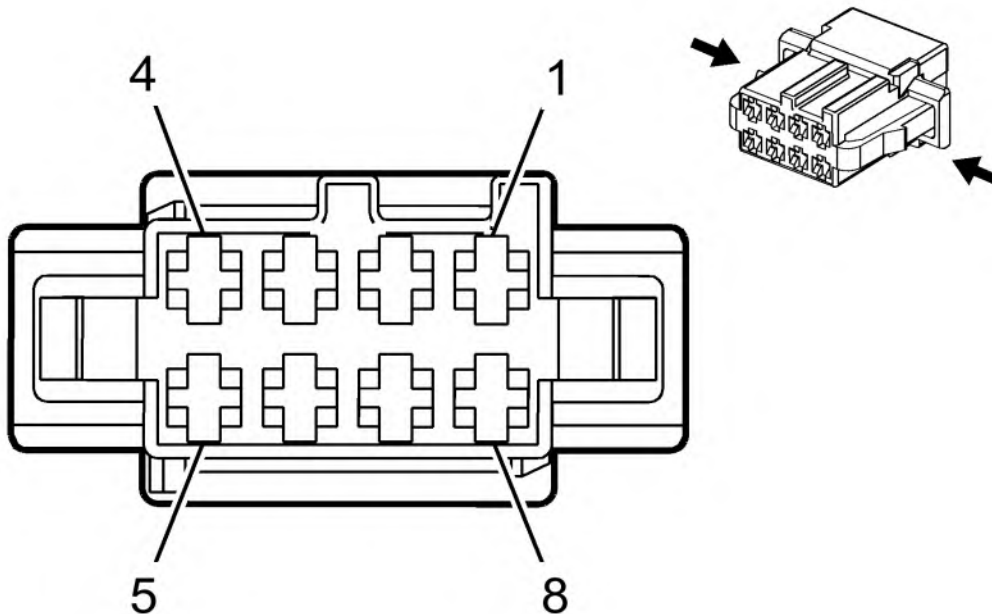


Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13587581	J-35616-64B (LT BU)	J-38616-12A	Not Available	Not Available	Not Available	Not Available

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	I	NJ1
2	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	NJ1
3 - 16	-	-	-	Not Occupied	-	-

K60 STEERING COLUMN LOCK MODULE



Connector Part Information

- Harness Type: Instrument Panel
- OEM Connector: 10718780
- Service Connector: 13576545
- Description: 8-Way F 1.6 Micro-Timer Series (BK)

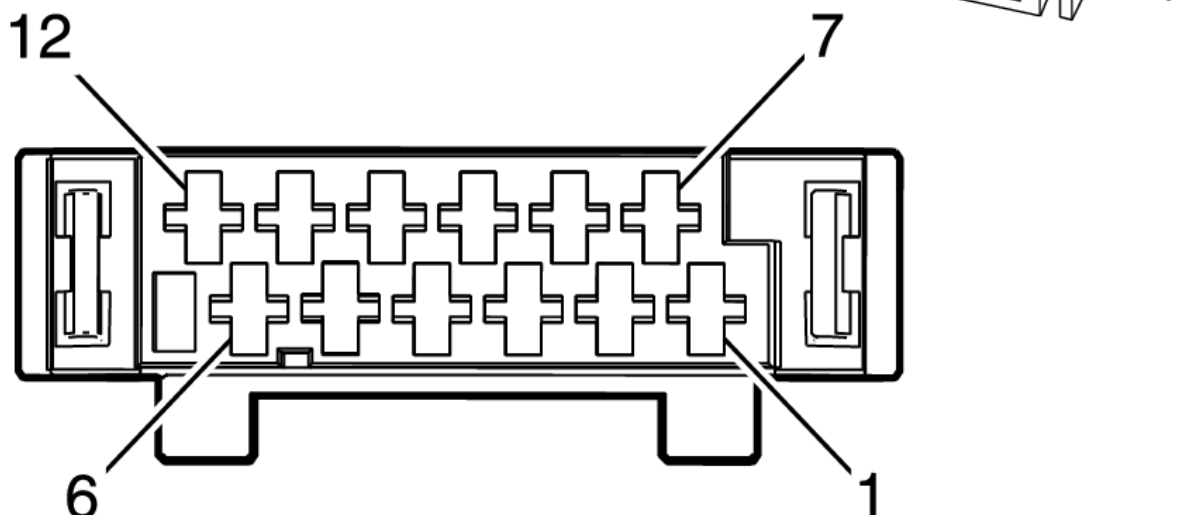
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	0.35	BU/VT	5904	Steering Column Lock Status Signal	I	N06
3	0.5	BU/VT	807	OFF/Accessory Ignition Voltage	I	N06
4	0.35	GN/VT	1601	Steering Column Lock Signal	I	N06
5	0.5	RD/GY	1740	Battery Positive Voltage	I	N06
6	0.5	BK	1550	Ground	I	N06
7	0.5	BK/WH	451	Signal Ground	I	N06
8	0.35	GN	5060	Low Speed GMLAN Serial Data	I	N06

K61 SUNROOF CONTROL MODULE





Connector Part Information

- Harness Type: Headliner
- OEM Connector: 929012-1
- Service Connector: 90221505
- Description: 12-Way F 2.8 Junior Power Timer Series (BK)

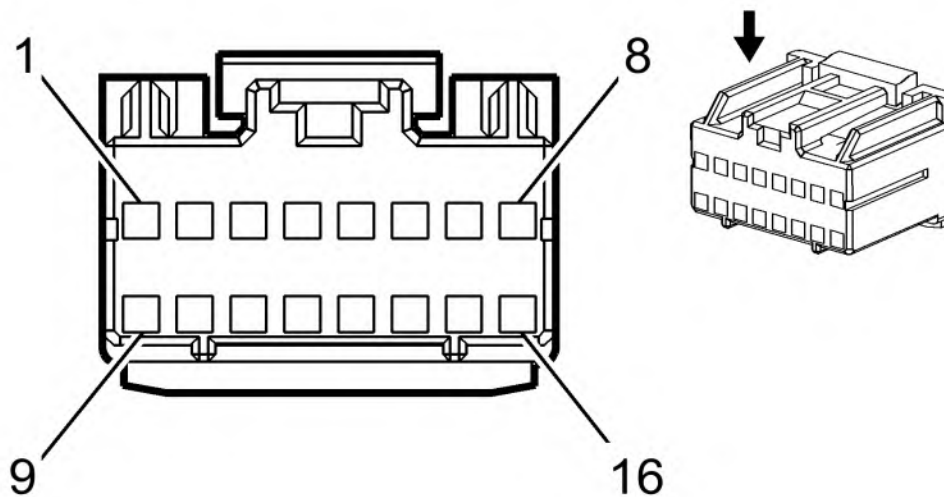
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19331559	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	RD/WH	2740	Battery Positive Voltage	I	-
2	1	BK	850	Ground	I	-
3	0.5	BK/GY	128	Sunroof Switch Low Reference	I	-
4	0.5	GN/BN	6132	Local Interconnect Network Serial Data Bus 1	I	-
5	0.5	BU/VT	5027	Sunroof Switch Data 1 Signal	I	-
6	0.5	WH/GN	3031	Sunroof Vent Switch Signal	I	-
7 - 12	-	-	-	Not Occupied	-	-

K73 TELEMATICS COMMUNICATION INTERFACE CONTROL MODULE X1





Connector Part Information

- Harness Type: Instrument Panel
- OEM Connector: 1456601-1
- Service Connector: 19153138
- Description: 16-Way F 040 Multilock II Series (WH)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575740	J-35616-16 (LT GN)	J-38125-559	15445905	Delphi 23	J	J

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GY/GN	1102	Low Speed GMLAN Serial Data #2	I	-
2	0.35	BN/WH	2517	Keypad Red LED Control	I	-
3	0.35	YE/VT	2516	Keypad Green LED Control	I	-
4 - 5	-	-	-	Not Occupied	-	-
6	0.35	GN/BK	2515	Keypad Control	I	-
7	0.35	BK/WH	2551	Signal Ground	I	-
8 - 9	-	-	-	Not Occupied	-	-
10	0.35	BU/GN	1304	High Speed GMLAN Serial Data (+) 9	I	-
11	0.35	GN/WH	2514	Keypad Signal	I	-
12	0.35	WH/GN	1305	High Speed GMLAN Serial Data (-) 9	I	-
13	0.5	BK/VT	5167	Battery Backup Low Reference	I	-
14	0.5	YE/VT	5235	Battery Backup Control	I	-
15	0.35	RD/GN	742	Battery Positive Voltage	I	-
16	-	-	-	Not Occupied	-	-

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