

ENGINE CONTROL MODULE (ECM) X1 (L61/LE5)

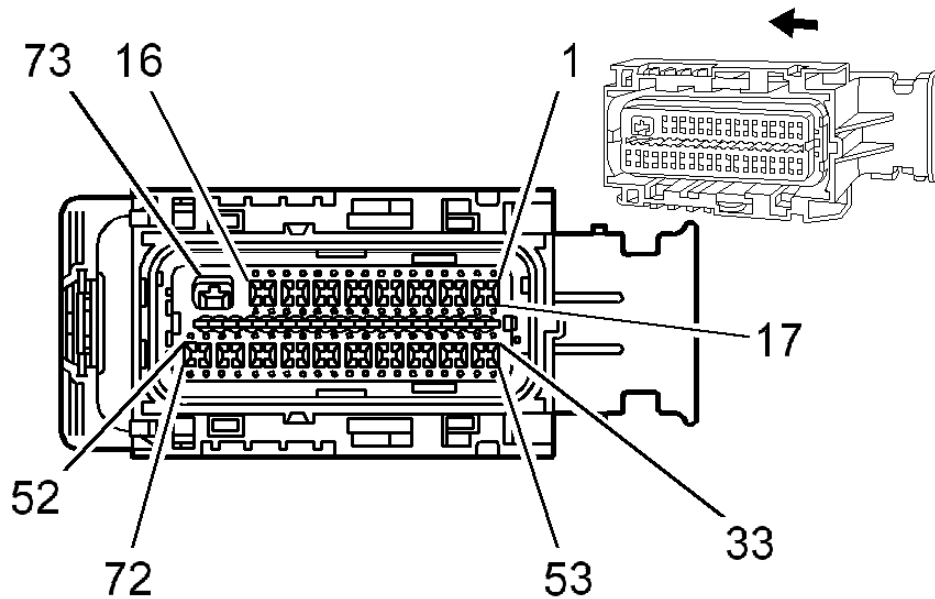


Fig. 91: Engine Control Module (ECM) X1 (L61/LE5) Connector End View
 Courtesy of GENERAL MOTORS CORP.

Connector Part Information

- OEM: 34566-0103
- Service: See Catalog
- Description: 73-Way F MX 123 Series (BK)

Terminal Part Information

- Terminal/Tray: See Terminal Repair Kit
- Core/Insulation Crimp: See Terminal Repair Kit
- Release Tool/Test Probe: See Terminal Repair Kit

Engine Control Module (ECM) X1 (L61/LE5)

Pin	Wire	Circuit	Function
1	0.35 D-BU	1161	APP Sensor 1 Signal
2	-	-	Not Used
3	0.35 BN	4	Accessory Voltage
4	-	-	Not Used
5	0.35 D-GN	335	Low Speed Cooling Fan Relay Control
6	0.35 L-GN/WH	465	Fuel Pump Relay Control (-Primary)

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7-10	-	-	Not Used
11	0.35 OG/D-GN	7360	Manual Transmission Clutch Position Sensor Return
12	-	-	Not Used
13	0.35 BN	5991	Powertrain Relay Control
14-17	-	-	Not Used
18	0.35 L-BU	1162	APP Sensor 2 Signal
19	0.5 PK/BK	1039	Ignition 1 Voltage
20	0.5 RD/WH	840	Battery Positive Voltage
21	0.35 PU	1272	Low Reference
22-23	-	-	Not Used
24	0.5 TN	2759	Low Reference
25	0.35 OG/BK	380	A/C Refrigerant Pressure Sensor Signal
26	-	-	Not Used
27	0.35 BN/WH	419	MIL Control
28-29	-	-	Not Used
30	0.35 D-GN/WH	459	A/C Compressor Clutch Relay Control
31	-	-	Not Used
32	0.35 PU/WH	6386	Starter Enable Relay Control
33	-	-	Not Used
34	0.35 PU/WH	6356	VSS Signal Low
35-36	-	-	Not Used
37	0.35 YE	492	Mass Air Flow Sensor Signal
38	-	-	Not Used
39	0.35 PU	1589	Fuel Level Sensor Signal (+Primary)
40	-	-	Not Used
41	0.35 BN	1271	Low Reference
42	0.35 D-GN	890	Fuel Tank Pressure Sensor Signal
43	0.35 TN/BK	2500	High Speed GMLAN Serial Data (+)
44	0.35 TN	2501	High Speed GMLAN Serial Data (-)
45	0.5 D-BU/WH	7361	Manual Transmission Clutch Position Sensor Supply
46	-	-	Not Used
47	0.35 WH/BK	1164	5-Volt Reference
48-53	-	-	Not Used
54	0.35 BN/WH	6354	VSS Signal High
55	0.35 L-BU	20	Stop Lamp Supply Voltage
56	-	-	Not Used
57	0.35 D-GN	6307	Clutch Start Neutral Start Signal
58	0.35 L-BU	6289	Intake Air Temperature Sensor Signal
59-60	-	-	Not Used

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61	0.35 L-GN	6338	Manual Transmission Clutch Position Sensor Signal Position
62-65	-	-	Not Used
66	0.5 GY	2709	5-Volt Reference
67	0.35 TN	1274	5-Volt Reference
68-69	-	-	Not Used
70	0.5 WH	1310	EVAP Canister Vent Solenoid Control
71-72	-	-	Not Used
73	0.8 PK/BK	6341	Powertrain Relay Contact Signal

ENGINE CONTROL MODULE (ECM) X2 (L61/LE5)

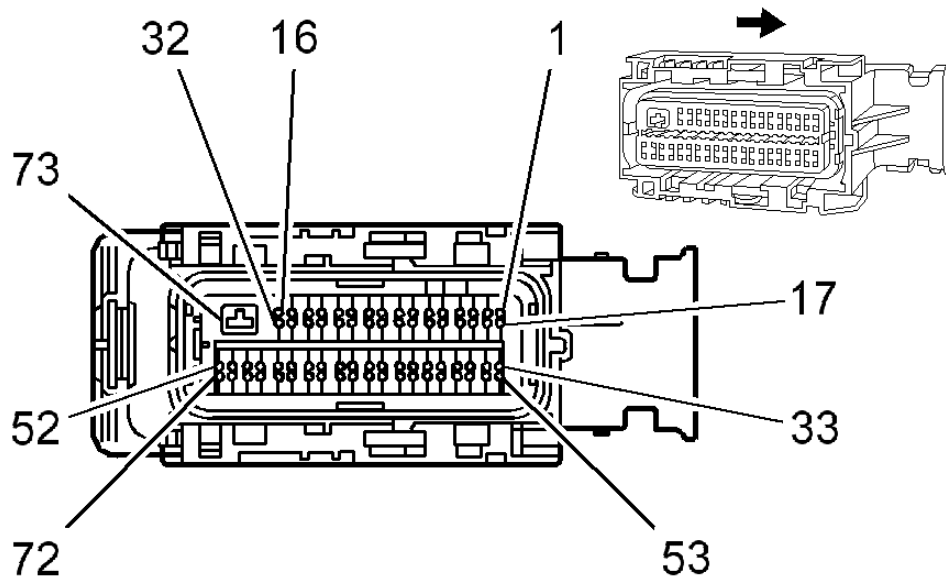


Fig. 93: Engine Control Module (ECM) X2 (L61/LE5) Connector End View
 Courtesy of GENERAL MOTORS CORP.

Connector Part Information

- OEM: 34566-0203
- Service: See Catalog
- Description: 73-Way F MX123 34566 Series (BK)

Terminal Part Information

- Terminal/Tray: See Terminal Repair Kit
- Core/Insulation Crimp: See Terminal Repair Kit

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- Release Tool/Test Probe: See Terminal Repair Kit

Engine Control Module (ECM) X2 (L61/LE5)

Pin	Wire	Circuit	Function
1-3	-	-	Not Used
4	0.5 TN	2761	Low Reference
5	0.5 PU	574	Low Reference
6	0.5 TN	1744	Fuel Injector 1 Control
7	0.5 PK/BK	1746	Fuel Injector 3 Control
8	0.5 L-BU/BK	844	Fuel Injector 4 Control
9	0.35 BN	2129	Low Reference
10	0.5 L-GN/BK	1745	Fuel Injector 2 Control
11-12	-	-	Not Used
13	0.35 PK/BK	2704	5-Volt Reference
14	0.5 L-GN	5282	Exhaust Cam Solenoid Control (LE5)
15	0.5 PU	5284	Intake Cam Solenoid Control (LE5)
16	0.5 YE	581	TAC Motor Control - 1
17-19	-	-	Not Used
20	0.5 TN	5301	Camshaft Position Intake Sensor Low Reference (LE5)
21	0.5 GY	5296	Camshaft Position Exhaust Sensor Low Reference (LE5)
22	0.35 PU	2121	IC 1 Control
23	0.35 L-BU	2123	IC 3 Control
24	0.35 D-GN/WH	2124	IC 4 Control
25	-	-	Not Used
26	0.35 OG/WH	2122	IC 2 Control
27-29	-	-	Not Used
30	0.5 D-GN/WH	428	EVAP Canister Purge Solenoid Control
31	0.5 OG	225	Generator Turn On Signal
32	0.5 BN	582	TAC Motor Control - 2
33	0.5 D-BU	5300	Camshaft Position Intake Sensor Supply Voltage (LE5)
34	0.5 YE/BK	5297	Camshaft Position Exhaust Sensor Supply Voltage (LE5)
35	0.5 GY	6255	Low Reference
36	-	-	Not Used
37	0.5 PU/WH	3110	HO2S Reference Voltage (Bank 1 Sensor 1)
38	0.5 PU	3120	HO2S High Signal (Bank 1 Sensor 2)
39	0.35 L-GN	432	MAP Sensor Signal
40	0.35 TN	2752	Low Reference
41	0.5 PU/WH	6256	A/C High Side Pressure Sensor Ground

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42	0.35 TN	2760	Low Reference
43	0.5 GY	23	Generator Field Duty Cycle Signal
44	-	-	Not Used
45	0.5 YE	573	CKP Sensor 1 Signal
46	0.5 OG	5275	Camshaft Position Intake Sensor (LE5)
47	0.5 D-GN	5273	Camshaft Position Exhaust Sensor (LE5)
48	0.5 TN/WH	3111	HO2S Low Reference (Bank 1 Sensor 1)
49	0.35 OG/BK	469	Low Reference
50	0.5 GY	1716	Knock Sensor 2 Signal
51	0.5 D-BU	496	Knock Sensor 1 Signal
52	-	-	Not Used
53	0.35 GY	2701	5-Volt Reference
54	0.5 L-GN	2867	5-Volt Reference
55-56	-	-	Not Used
57	0.35 D-GN	485	TP Sensor 1 Signal
58	0.5 YE	410	ECT Sensor Signal
59	0.35 PU	486	TP Sensor 2 Signal
60	0.5 BN	6753	Intake Cam Solenoid Return (LE5)
61	0.5 BN/WH	6754	Exhaust Cam Solenoid Return (LE5)
62-64	-	-	Not Used
65	0.5 GY/WH	3113	HO2S Heater Low Control - Bank 1 Sensor 1
66	0.5 GY/WH	3122	HO2S Heater Low Control - Bank 1 Sensor 2
67	0.5 TN/BK	231	Oil Pressure Switch Signal
68	0.5 TN/WH	3121	HO2S Heater Low Control - Bank 1 Sensor 1
69-72	-	-	Not Used
73	2.0 BK/WH	451	Signal Ground