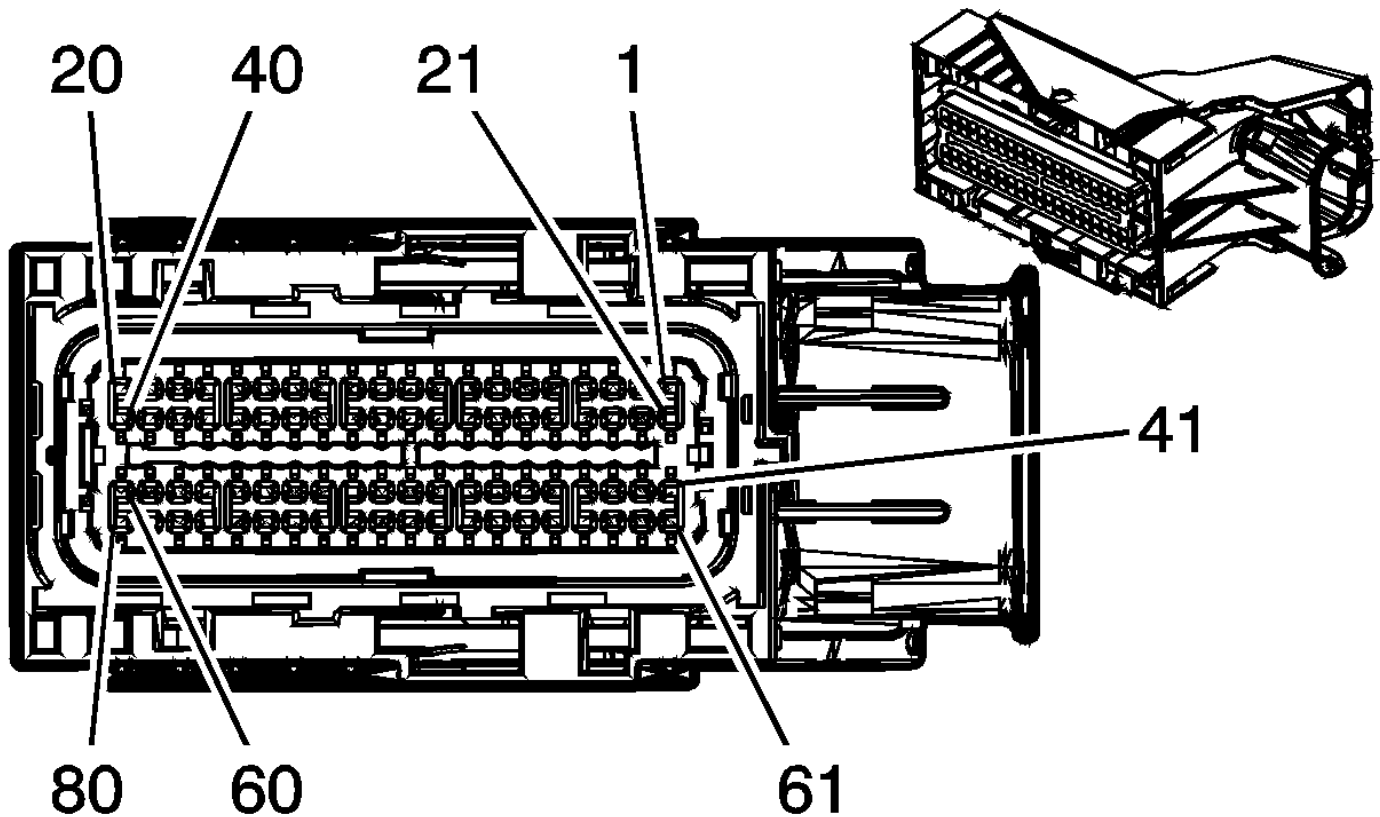


ENGINE CONTROL MODULE (ECM) X...

ENGINE CONTROL MODULE (ECM) X2 (LS3 OR LS7) (WIRING SYSTEMS AND POWER MANAGEMENT)

Document ID# 2328531

Engine Control Module (ECM) X2 (LS3 or LS7)



Connector Part Information

- OEM: 34566-4503 (LS3/LS7 with MM6/MZ6)
- OEM: 34566-4603 (LS3 with MYC)
- Service: See Catalog
- Description: 80-Way F MX123 Harness Connector Assembly, Sealed (GY)

Terminal Part Information

- Pins: 2, 3, 5, 6, 8, 11-13, 17-24, 26, 27, 29, 30, 32, 34, 35, 37-41, 43, 44, 50, 53, 56-60, 61, 63-66, 68-79
- Terminal/Tray: 33467-0003/23
- Core/Insulation Crimp: Pins 2, 3, 21-24, 26, 27, 29, 30, 32, 34, 35, 41, 43, 44, 50, 53, 58, 61, 63-66, 68, 69 - H/H
- Core/Insulation Crimp: Pins 5, 6, 8, 11-13, 17-20, 37-40, 56, 57, 59, 60, 70-79 - See Terminal Repair Kit
- Release Tool/Test Probe: J-38125-213/J-35616-64B (L-BU)

Engine Control Module (ECM) X2 (LS3 or LS7)

Pin	Wire	Circuit	Function

1	—	—	Not Used
2	0.35 PU/WH	6270	5-Volt Reference 2
3	0.35 L-BU/BK	1688	5-Volt Reference 2
4	—	—	Not Used
5	0.5 BN	582	Throttle Actuator Control (TAC) Motor Control - 2
6	0.5 YE	581	Throttle Actuator Control (TAC) Motor Control - 1
7	—	—	Not Used
8	0.5 D-GN/WH	428	EVAP Canister Purge Solenoid Valve Control
9-10	—	—	Not Used
11	0.5 L-GN	1652	Reverse Lockout Solenoid Control (MM6/MZ6/MN6)
12	0.5 GY/WH	3113	HO2S Heater Low Control Bank 1 Sensor 1
13	0.5 L-GN	3212	HO2S Heater Low Control Bank 2 Sensor 1
14-16	—	—	Not Used
17	0.5 D-BU/WH	878	Fuel Injector 8 Control
18	0.5 TN/WH	845	Fuel Injector 5 Control
19	0.5 YE/BK	846	Fuel Injector 6 Control
20	0.5 TN	1744	Fuel Injector 1 Control
21	0.35 YE	410	Engine Coolant Temperature Sensor Signal
22	0.35 TN	2761	Low Reference
23	0.35 TN/WH	585	Transmission Fluid Temperature (TFT) Sensor Signal (MN6)
24	0.35 OG/BK	586	Low Reference (MN6)
25	—	—	Not Used

26	0.35 D-BU	496	Knock Sensor 1 Signal
27	0.35 GY	1716	Knock Sensor 1 Signal
28	—	—	Not Used
29	0.35 L-BU	1876	Knock Sensor 2 Signal
30	0.35 GY	2303	Knock Sensor 2 Signal
31	—	—	Not Used
32	0.35 GY	23	Generator Field Duty Cycle Signal
33	0.35 BN	1174	Oil Pressure Switch Signal (LS3 without Z52)
34	0.35 BK	2755	Low Reference
35	0.35 TN/WH	1704	Low Reference
36	—	—	Not Used
37	0.5 L-GN/BK	1745	Fuel Injector 2 Control
38	0.5 PK/BK	1746	Fuel Injector 3 Control
39	0.5 L-BU/BK	844	Fuel Injector 4 Control
40	0.5 OG/BK	877	Fuel Injector 7 Control
41	0.35 GY	2705	5-Volt Reference 1
42	—	—	Not Used
43	0.5 GY	2704	5-Volt Reference 1
	0.35 GY	2704	5-Volt Reference 1 (LS7)
44	0.35 D-BU	6259	5-Volt Reference 1
45-49	—	—	Not Used
50	0.35 TN/WH	331	Oil Pressure Sensor Signal

51-52	—	—	Not Used
53	0.5 OG/BK	469	Low Reference (LS3)
	0.35 OG/BK	469	Low Reference (LS7)
54-55	—	—	Not Used
56	0.5 TN	1664	HO2S Low Signal Bank 1 Sensor 1
57	0.5 PU/WH	1665	HO2S High Signal Bank 1 Sensor 1
58	0.35 L-GN	432	Manifold Absolute Pressure (MAP) Sensor Signal
59	0.5 PU	1666	HO2S High Signal Bank 2 Sensor 1
60	0.5 TN	1667	HO2S Low Signal Bank 2 Sensor 1
61	0.35 OG	225	Generator Turn On Signal
62	—	—	Not Used
63	0.35 PU	486	Throttle Position Sensor 2 Signal
64	0.35 D-BU/WH	6265	Camshaft Position Sensor (CMP) Signal
65	0.35 D-GN	485	Throttle Position Sensor 1 Signal
66	0.35 BN	6266	Low Reference
67	—	—	Not Used
68	0.35 WH/BK	6271	Crankshaft Position Sensor Signal
69	0.35 GY/BK	6272	Low Reference
70	0.5 PU	2121	IC 1 Control
71	0.5 PU/WH	2128	IC 8 Control
72	0.5 OG	2127	IC 7 Control
73	0.5 OG/WH	2122	IC 2 Control

74	0.5 L-BU/WH	2126	IC 6 Control
75	0.5 D-GN	2125	IC 5 Control
76	0.5 D-GN/WH	2124	IC 4 Control
77	0.5 L-BU	2123	IC 3 Control
78	0.5 BN	2129	Low Reference
79	0.5 BN/WH	2130	Low Reference
80	—	—	Not Used

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