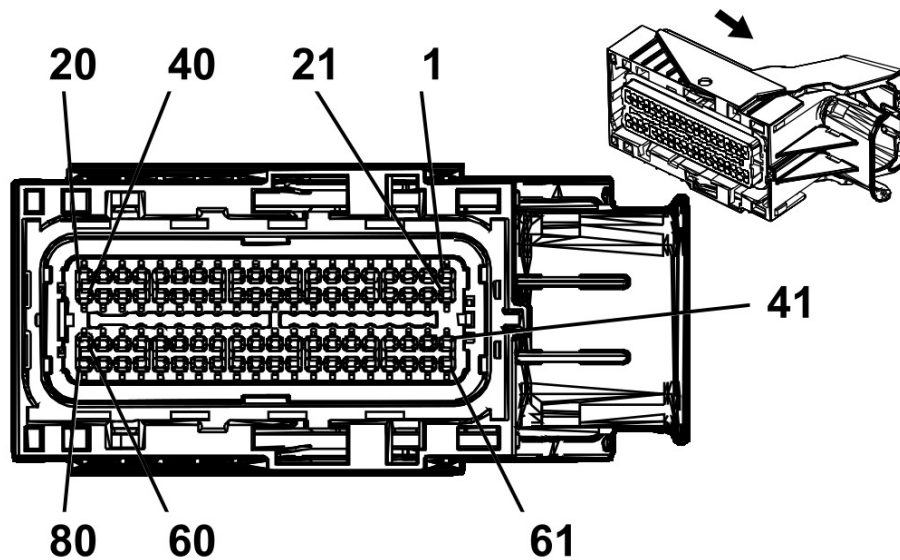


2012 GMC Truck Sierra 1500 4WD V8-5.3L

Vehicle > Diagrams > Connector Views

Engine Control Module (ECM) X2 (LMG, LC9, LY5, LH6, L76 or L9H without Y91)



Connector Part Information

- Harness Type: Engine
- OEM Connector: 13528613
- Service Connector: 19115670
- Description: 80-Way F 0.64 Sealed (GY)

Terminal Part Information

- Pins: 2, 3, 16, 35, 44, 52, 63-66, 68, 69
- Terminated Lead: Not Available
- Release Tool: J-38125-213
- Diagnostic Test Probe: J-35616-64B (L-BU)
- Terminal/Tray: 33467-0003/23
- Core/Insulation Crimp: H/H
- Pins: 6, 8-14, 17-22, 26, 27, 29, 30, 32, 34, 37-41, 43, 50, 53, 56-61, 70-79
- Terminated Lead: Not Available
- Release Tool: J-38125-213
- Diagnostic Test Probe: J-35616-64B (L-BU)
- Terminal/Tray: 33467-0005/23
- Core/Insulation Crimp: J/J

Pin	Wire	Circuit	Function
1	—	—	Not Used
2	0.35 PU/WH	6270	5-Volt Reference 2
3	0.35 GY	2701	5-Volt Reference 2
4	—	—	Not Used
5	0.5 BN	582	TAC Motor Control – 2
6	0.5 YE	581	TAC Motor Control – 1
7	—	—	Not Used
8	0.5 D- GN/WH	428	EVAP Canister Purge Solenoid Control
9	0.5 GY	5493	Cylinder Shutoff Solenoid Control (3) (except L9H)
10	0.5 D-BU	5491	Cylinder Shutoff Solenoid Control (1) (except L9H)
11	0.5 OG	5494	Cylinder Shutoff Solenoid Control (4) (except L9H)
12	0.5 GY/WH	3113	H02S Heater Low Control – Bank 1 Sensor 1
13	0.5 L-GN	3212	H02S Heater Low Control – Bank 2 Sensor 1
14	0.5 L- GN/BK	5492	Cylinder Shutoff Solenoid Control (2) (except L9H)
15	—	—	Not Used

Pin	Wire	Circuit	Function
16	0.35 PU	5284	Camshaft Actuator Solenoid Control (L76 or L9H)
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	0.5 YE	410	ECT Sensor Signal
22	0.5 TN	2761	Low Reference
23–25	—	—	Not Used
26	0.8 D-BU	496	KS 1 Signal
27	0.8 GY	1716	KS 1 Signal
28	—	—	Not Used
29	0.8 L-BU	1876	KS 2 Signal
30	0.8 GY	2303	KS 2 Signal
31	—	—	Not Used
32	0.5 GY	23	Generator Field Duty Cycle Signal
33	—	—	Not Used
34	0.5 BK	2755	Low Reference
35	0.35 TN	2752	Low Reference
36	—	—	Not Used
37	0.5 L-GN/BK	1745	Fuel Injector 2 Control

Pin	Wire	Circuit	Function
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	0.5 GY/WH	2705	5-Volt Reference 1
42	—	—	Not Used
43	0.5 GY	2704	5-Volt Reference 1
44	0.35 D-BU	6259	5-Volt Reference 1
45–49	—	—	Not Used
50	0.5 TN/WH	331	Oil Pressure Sensor Signal
51	—	—	Not Used
52	0.35 TN	2199	Low Reference (L76 or L9H)
53	0.5 OG/BK	469	Low Reference
54–55	—	—	Not Used
56	0.5 TN	1664	H02S Low Signal – Bank 1 Sensor 1
57	0.5 PU/WH	1665	H02S High Signal – Bank 1 Sensor 1
58	0.5 L-GN	432	MAP Sensor Signal
59	0.5 PU	1666	H02S High Signal – Bank 2 Sensor 1
60	0.5 TN	1667	H02S Low Signal – Bank 2 Sensor 1

Pin	Wire	Circuit	Function
61	0.5 BN	25	Charge Indicator Signal
62	—	—	Not Used
63	0.35 PU	486	TP Sensor 2 Signal
64	0.35 D-BU/WH	6265	CMP Sensor Signal
65	0.35 D-GN	485	TP Sensor 1 Signal
66	0.35 BN	6266	Low Reference
67	—	—	Not Used
68	0.35 WH/BK	6271	CKP 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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