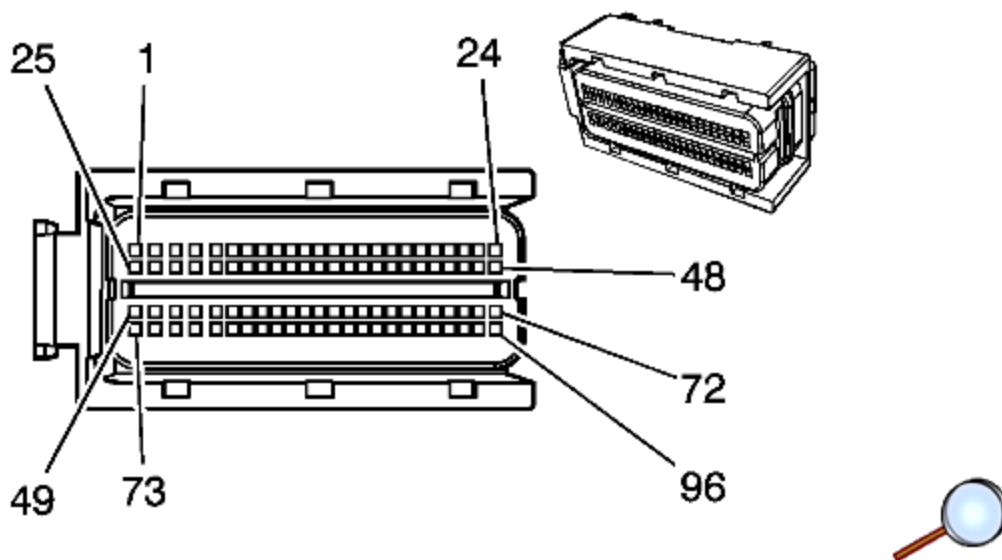


Engine Control Module (ECM) X1 (LNF)



Connector Part Information

- Harness: Engine
- OEM: 15438366
- Service: 88988373
- Description: 96-Way Sealed (BK)

Terminal Part Information

- Terminal/Tray: 1928498135/19
- Core/Insulation Crimp: P/P
- Release Tool/Test Probe: J-38125-213/J-35616-16 (L-GN)

Engine Control Module (ECM) X1 (LNF)

Pin	Wire	Circuit	Function
1	0.35 L-GN	5282	Camshaft Phaser Exhaust Solenoid Control
2	0.5 PU	5284	Camshaft Phaser Intake Solenoid Control
3-4	—	—	Not Used
5	0.35 YE	7301	High Pressure Fuel Pump Actuator – High Control
6	0.35 D-GN/WH	428	EVAP Canister Purge Solenoid Control
7	0.5 OG	5275	CMP Intake Sensor Signal
8-9	—	—	Not Used
10	0.35 OG	225	Generator Turn-On Signal

Pin	Wire	Circuit	Function
11-12	—	—	Not Used
13	0.35 BN/WH	2130	Low Reference
14	—	—	Not Used
15	0.35 GY	705	5-Volt Reference 2
16	0.35 D-GN	6391	Turbocharger Bypass Valve Control
17	0.35 TN/BK	231	Oil Pressure Switch Signal
18	0.35 YE	258	Wastegate Solenoid Control
19-23	—	—	Not Used
24	0.5 YE	581	TAC Motor Control 1
25	0.35 TN	891	Boost Gauge Signal
26	0.35 L-BU	4804	Direct Fuel Injector (DFI) High Voltage Control Cylinder 4
27	0.35 L-BU/WH	4904	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 4
28	0.35 D-BU	4802	Direct Fuel Injector (DFI) High Voltage Control Cylinder 2
29	0.35 D-BU/WH	4902	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 2
30	0.35 GY	23	Generator Field Duty Cycle Signal
31-33	—	—	Not Used
34	0.5 D-GN	5273	CMP Exhaust Sensor Signal
35	0.35 YE	573	CKP Sensor Signal
36	0.35 YE	2918	FRP Sensor Signal
37	0.5 L-GN	432	MAP Sensor Signal
38	0.35 GY	598	5-Volt Reference 1
39	0.35 GY	2701	5-Volt Reference 3
40	0.5 TN	407	Low Reference
41	0.35 TN	552	Low Reference
42	0.35 TN	808	Low Reference

Pin	Wire	Circuit	Function
43	0.5 GY	597	Low Reference
44	0.35 TN	2761	Low Reference
45	0.35 L-GN	2867	5-Volt Reference 3
46	0.35 PU	574	Low Reference
47	—	—	Not Used
48	0.5 BN	582	TAC Motor Control 2
49-50	—	—	Not Used
51	0.35 BN	4801	Direct Fuel Injector (DFI) High Voltage Control Cylinder 1
52	0.35 D-GN	4803	Direct Fuel Injector (DFI) High Voltage Control Cylinder 3
53	0.35 D-GN/WH	4903	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 3
54	0.35 BN/WH	419	MIL Control
55	0.35 PU	2121	IC 1 Control
56	0.35 D-GN/WH	2124	IC 4 Control
57-58	—	—	Not Used
59	0.5 D-BU	496	KS 1 Signal
60	0.35 GY	2303	KS 2 Signal
61-63	—	—	Not Used
64	0.5 OG/BK	469	Low Reference
65	—	—	Not Used
66	0.5 PU	7330	Pre-Throttle Air Temp and Press (TMAP) Air Pressure Signal
67	0.5 TN/WH	3111	HO2S Low Signal Sensor 1
68	0.35 WH	5279	HO2S Pump Current Sensor 1
69-72	—	—	Not Used
73	0.35 PU	7300	High Pressure Fuel Pump Actuator - Low Control
74	—	—	Not Used

Pin	Wire	Circuit	Function
75	0.35 BN/WH	4901	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 1
76-77	—	—	Not Used
78	0.35 BN	2129	Low Reference
79	0.35 L-BU	2123	IC 3 Control
80	0.35 OG/WH	2122	IC 2 Control
81	—	—	Not Used
82	0.35 YE	410	ECT Sensor Signal
83	0.5 GY	1716	KS 1 Signal
84	0.35 L-BU	1876	KS 2 Signal
85	—	—	Not Used
86	0.5 L-BU	7329	Pre-Throttle Air Temp and Press (TMAP) Temperature Signal
87	—	—	Not Used
88	0.35 TN	2752	Low Reference
89	0.35 PU	486	TP Sensor 2 Signal
90	0.35 D-GN	485	TP Sensor 1 Signal
91	0.35 L-GN	5278	HO2S Input Pump Current Sensor 1
92	0.5 PU/WH	3110	HO2S High Signal Sensor 1
93-94	—	—	Not Used
95	0.5 GY	2704	5-Volt Reference 1
96	0.5 GY/WH	3113	HO2S Heater Low Control – Sensor 1