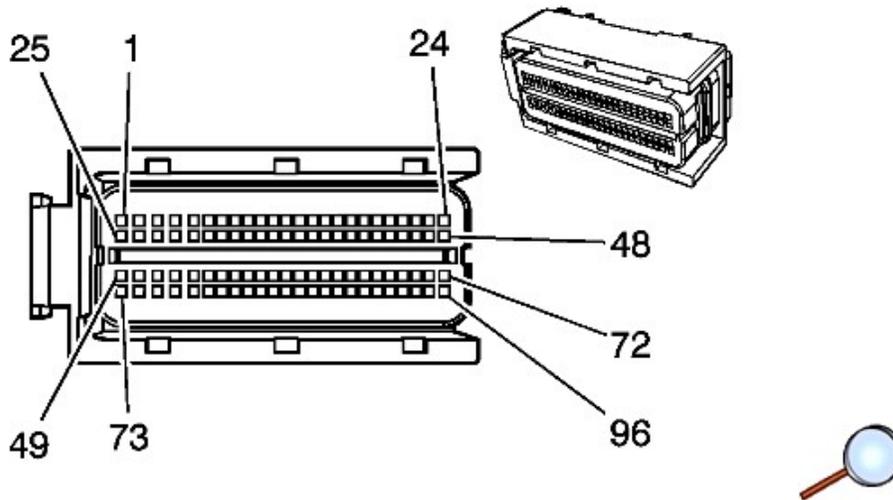


Engine Control Module (ECM) X1 (LNF)



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

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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

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Pin	Wire	Circuit	Function
74	—	—	Not Used
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