

**Engine Control Module (ECM) X2 (LE5 or LE9)**



**Connector Part Information**

- Harness Type: Engine
- OEM Connector: 13724342
- Service Connector: 88988372
- Description: 73-Way F 64/2.8 Series, Sealed (GY)

**Terminal Part Information**

- Pins: 2-5, 13-15, 20-24, 26, 30-31, 33-34, 39-40, 42-43, 45-47, 49, 53-55, 57-60, 64, 67
- Terminated Lead: 13575811
- Release Tool: J-38125-213
- Diagnostic Test Probe: J-35616-64B (L-BU)

- Core/Insulation Crimp: H/H
- Pins: 6-10, 16, 32, 37, 38, 48, 50-51, 65-66, 68
- Terminated Lead: 13575575
- Release Tool: J-38125-213
- Diagnostic Test Probe: J-35616-64B (L-BU)
- Terminal/Tray: 33467-0005/23
- Core/Insulation Crimp:Pins: 6-10, 37, 38, 48, 50-51, 65-66, 68 - J/J
- Core/Insulation Crimp: Pins: 16, 32 - K/K
  
- Pins: 73
- Terminated Lead: Pending
- Release Tool: J-38125-11A
- Diagnostic Test Probe: J-35616-35 (VT)
- Terminal/Tray: 7116-4152-02/9
- Core/Insulation Crimp: 2/5

**Engine Control Module (ECM) X2 (LE5 or LE9)**

<b>Pin</b>	<b>Wire</b>	<b>Circuit</b>	<b>Function</b>
1	—	—	Not Used
2	0.35 BN/WH	6331	Air Injection Reaction Pump Signal (NU6 or NU5)
3	0.35 PU	421	Air Injection Reaction Solenoid Relay – Coil – Output (NU6)
4	0.35 TN	2761	Low Reference
5	0.35 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

<b>Pin</b>	<b>Wire</b>	<b>Circuit</b>	<b>Function</b>
9	0.5 BN	2129	Low Reference
10	0.5 L-GN/BK	1745	Fuel Injector 2 Control
11-12	—	—	Not Used
13	0.35 GY	2704	5-Volt Reference 2
14	0.35 L-GN	5282	Camshaft Phaser Exhaust Solenoid – 1
15	0.35 PU	5284	Camshaft Phaser Intake Solenoid – 1
16	0.8 YE	581	TAC Motor Control – 1
17-19	—	—	Not Used
20	0.35 TN	5301	Camshaft Position Intake Sensor Low Reference – 1
21	0.35 GY	5296	Camshaft Position Exhaust Sensor Low Reference – 1
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	0.35 D-GN/WH	428	EVAP Canister Purge Solenoid Control

<b>Pin</b>	<b>Wire</b>	<b>Circuit</b>	<b>Function</b>
31	0.35 OG	225	Generator Turn on Signal
32	0.8 BN	582	TAC Motor Control – 2
33	0.35 D-BU	5300	Camshaft Position Intake Sensor Supply Voltage – 1
34	0.35 YE/BK	5297	Camshaft Position Exhaust Sensor Supply Voltage – 1
35–36	—	—	Not Used
37	0.5 PU/WH	3110	Heated Oxygen Sensor High Signal Bank 1 Sensor 1
38	0.5 PU	3120	Heated Oxygen Sensor High Signal Bank 1 Sensor 2
39	0.35 L-GN	432	MAP Sensor Signal
40	0.35 TN	2752	Throttle Position Sensor Low Reference
41	—	—	Not Used
42	0.35 TN/BK	2760	Low Reference
43	0.35 GY	23	Generator Field Duty Cycle Signal
44	—	—	Not Used
45	0.35 YE	573	Crankshaft Position Sensor Signal 1
46	0.35 OG	5275	Camshaft Position Intake Sensor 1
47	0.35 D-GN	5273	Camshaft Position Exhaust Sensor 1
48	0.5 TN/WH	3111	Heated Oxygen Sensor Low signal Bank 1 Sensor 1

<b>Pin</b>	<b>Wire</b>	<b>Circuit</b>	<b>Function</b>
49	0.35 OG/BK	469	Low Reference
50	0.5 GY	1716	Knock Sensor Signal
51	0.5 D-BU	496	Knock Sensor Signal – 1
52	—	—	Not Used
53	0.35 GY	2701	5-Volt Reference 2
54	0.35 L-GN	2867	5-Volt Reference
55	0.35 WH	6452	Air Injection Reaction Pump Sensor Supply Voltage (NU6 or NU5)
56	—	—	Not Used
57	0.35 D-GN	485	TP Sensor 1 Signal
58	0.35 YE	410	ECT Sensor Signal
59	0.35 PU	486	TP Sensor 2 Signal
60	0.35 BN	6753	Low Reference
61	0.5 BN/WH	6754	Low Reference
62–63	—	—	Not Used
64	0.35 D-BU/WH	6785	Air Injection Reaction Control Valve #1 Low Reference (NU6 or NU5)
65	0.5 GY/WH	3113	HO2S Heater Low Control Bank 1 Sensor 1

<b>Pin</b>	<b>Wire</b>	<b>Circuit</b>	<b>Function</b>
66	0.5 GY/WH	3122	HO2S Heater Low Control Bank 2 Sensor 1
67	0.35 TN/BK	231	Oil Pressure Switch Signal
68	0.5 TN/WH	3121	HO2S Heater Low Control Bank 1 Sensor 2
69-72	—	—	Not Used
73	2 BK/WH	451	Signal Ground