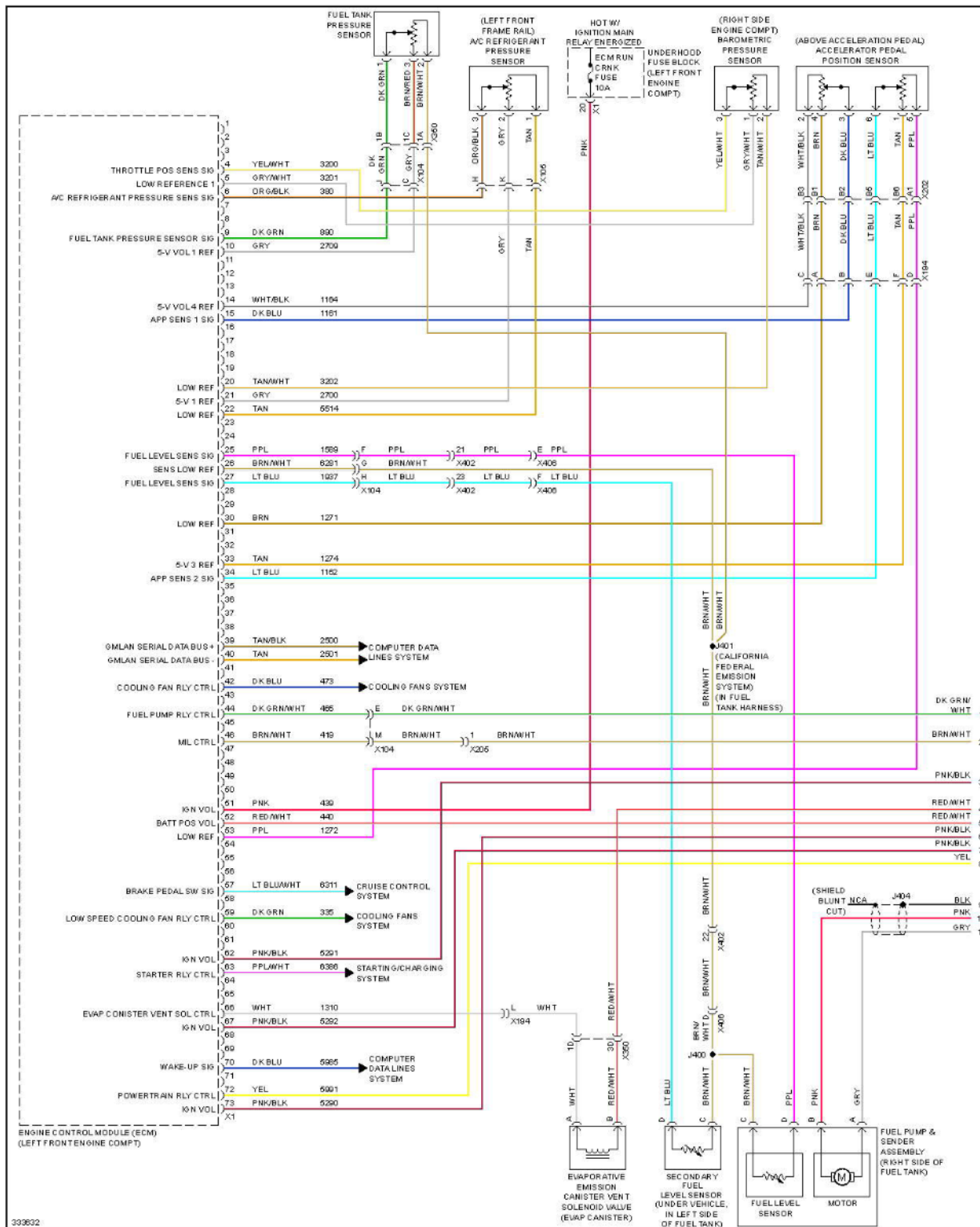


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SYSTEM WIRING DIAGRAMS

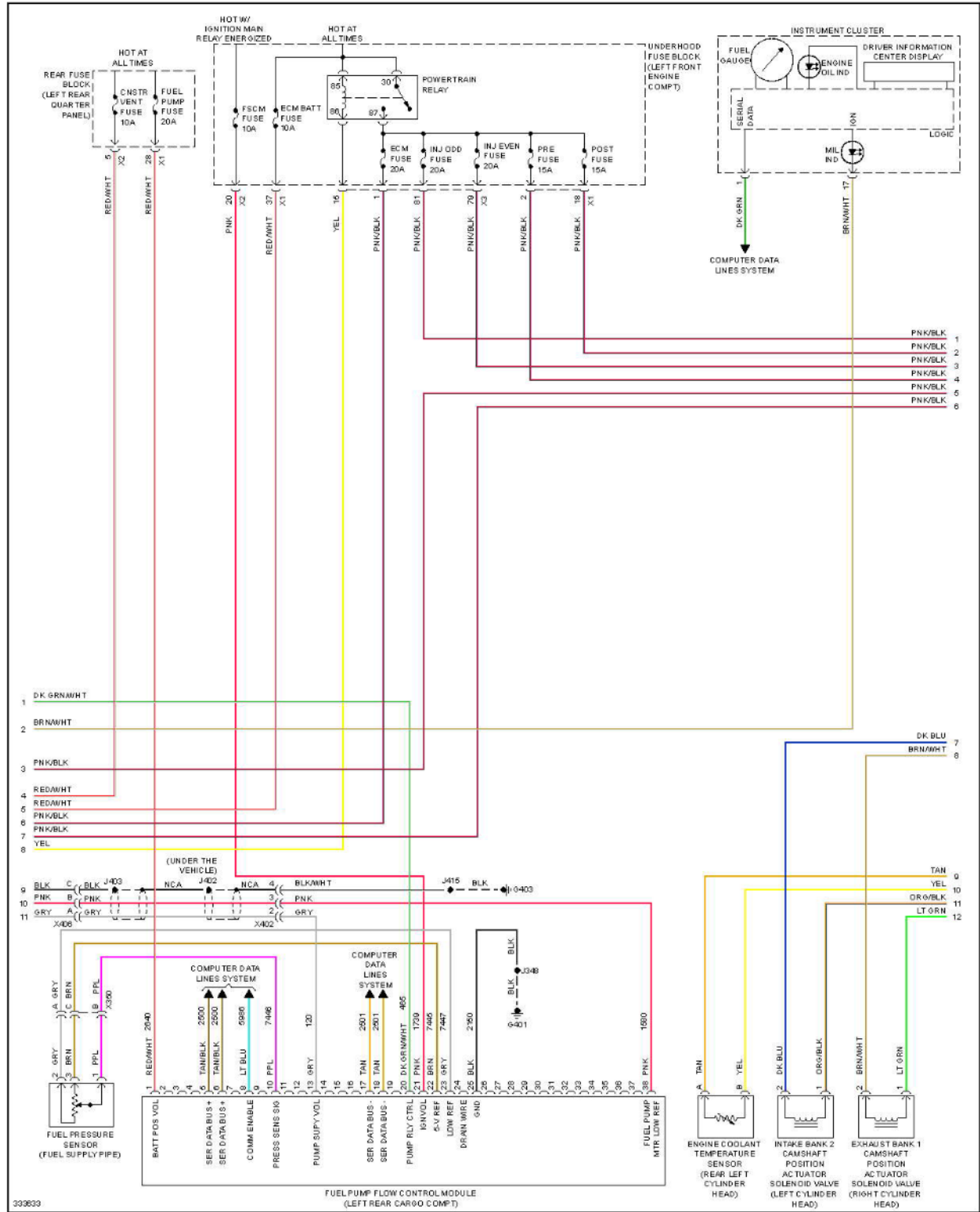
Fig. 28: 3.0L VIN Y, Engine Performance Circuit (1 of 5)



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SYSTEM WIRING DIAGRAMS

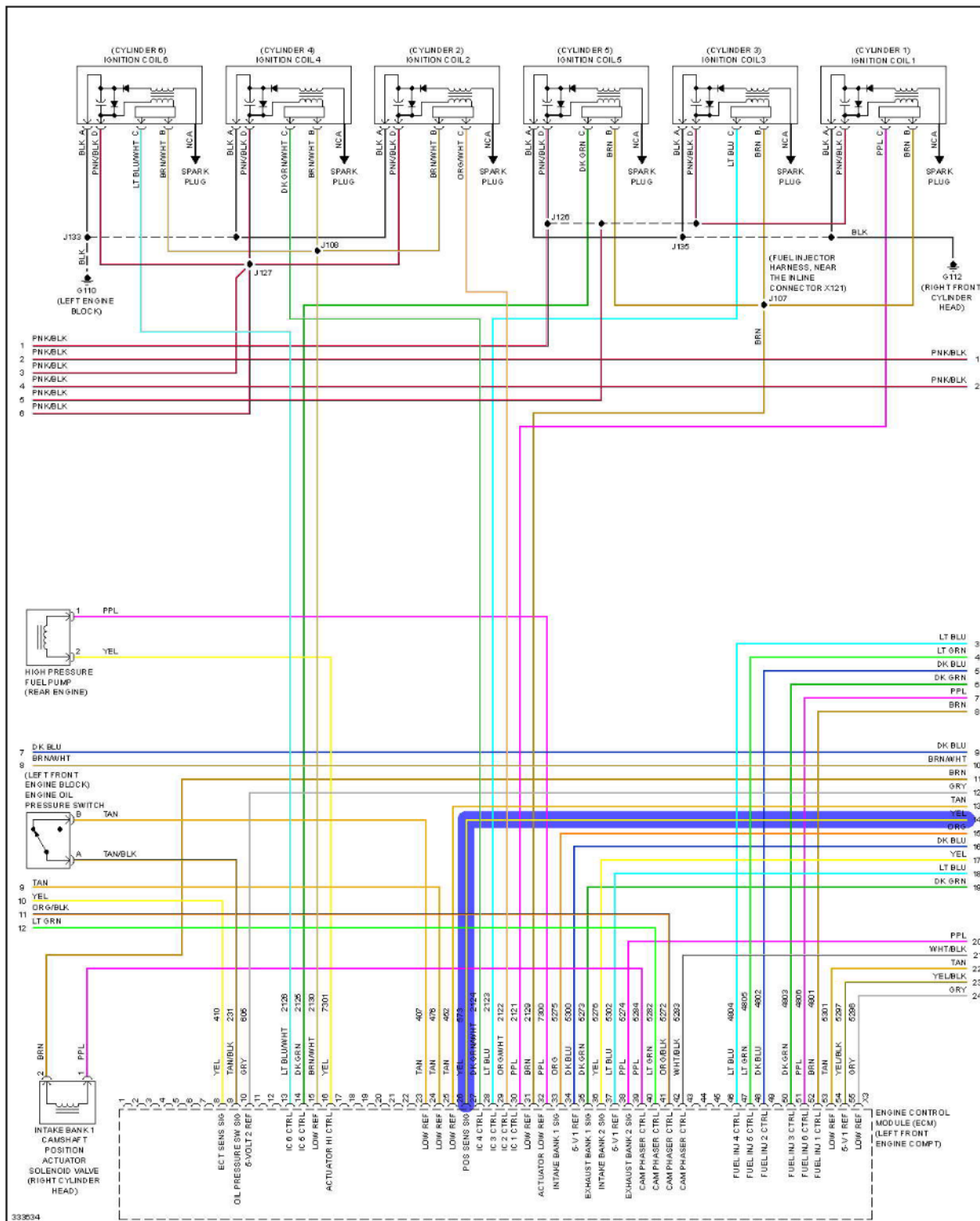
Fig. 29: 3.0L VIN Y, Engine Performance Circuit (2 of 5)



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SYSTEM WIRING DIAGRAMS

Fig. 30: 3.0L VIN Y, Engine Performance Circuit (3 of 5)



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SYSTEM WIRING DIAGRAMS

Fig. 31: 3.0L VIN Y, Engine Performance Circuit (4 of 5)

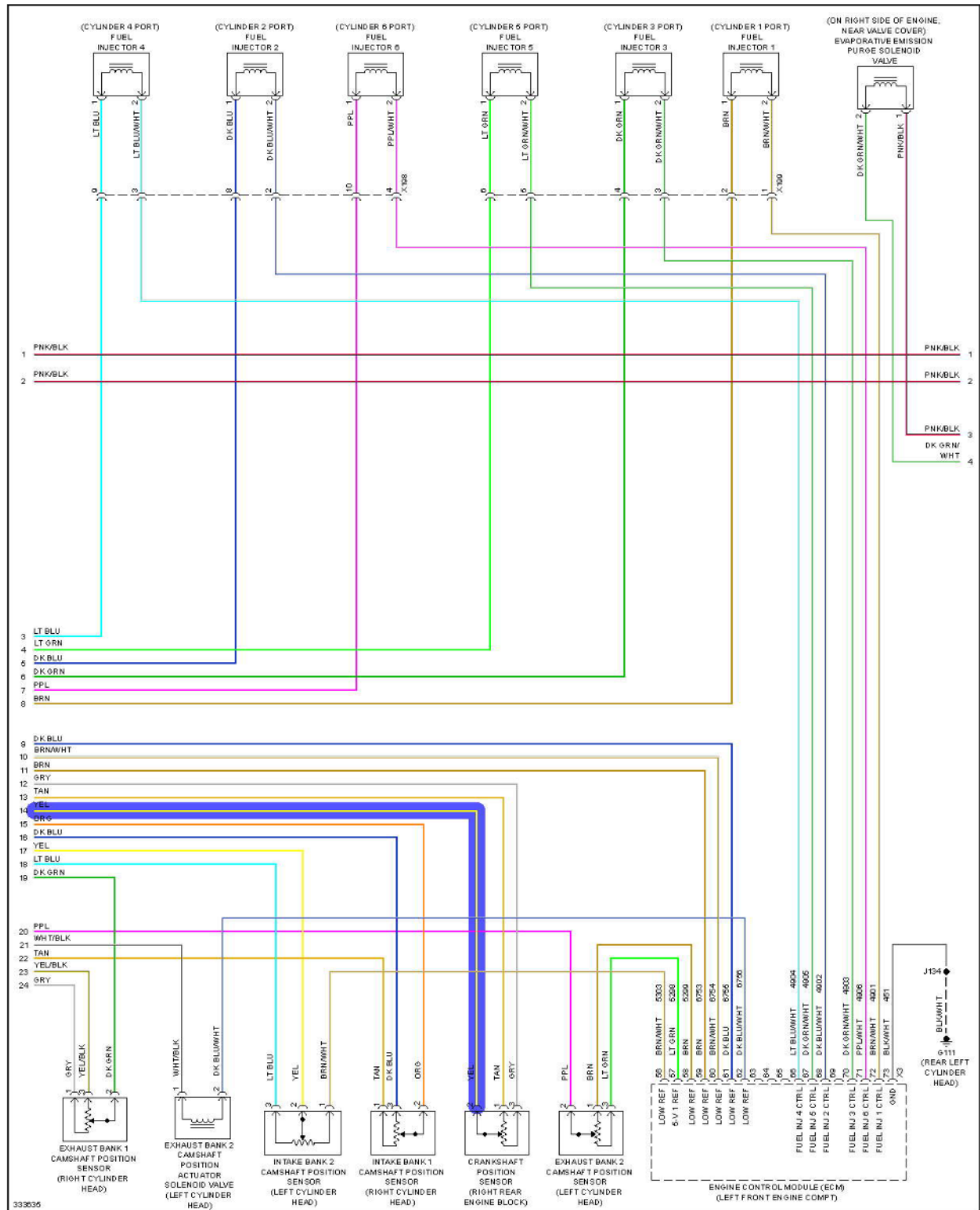


Fig. 32: 3.0L VIN Y, Engine Performance Circuit (5 of 5)



Fig. 22: Ignition Controls Wiring Schematic - Crankshaft Position, Camshaft Position, Knock Sensors and Camshaft Position Actuator Solenoids
 Courtesy of GENERAL MOTORS CORP.
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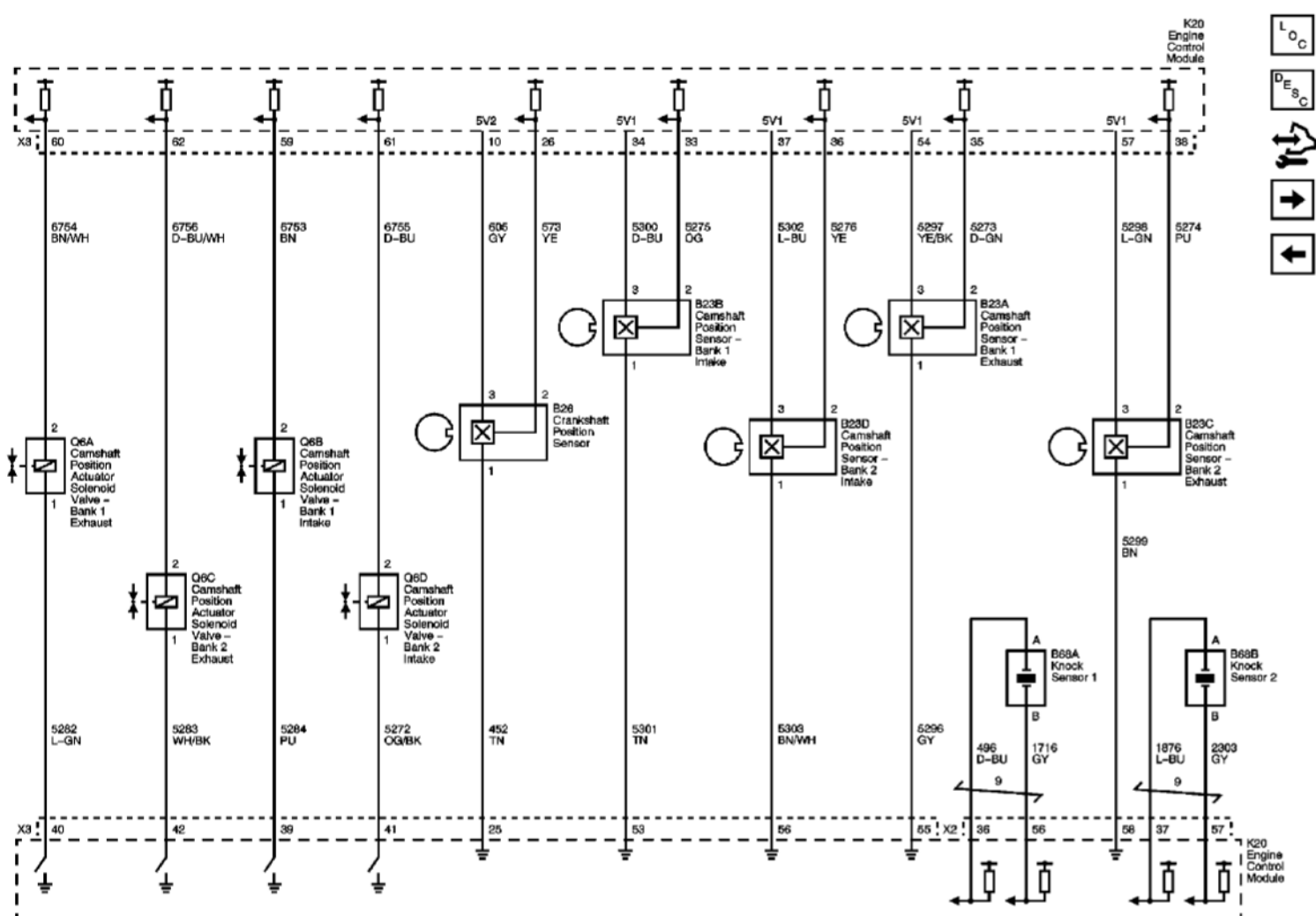


Fig. 9: Ignition Controls Wiring Schematic - Crankshaft Position, Camshaft Position, Knock Sensors and Camshaft Position Actuator Solenoids
GENERAL MOTORS CORP.
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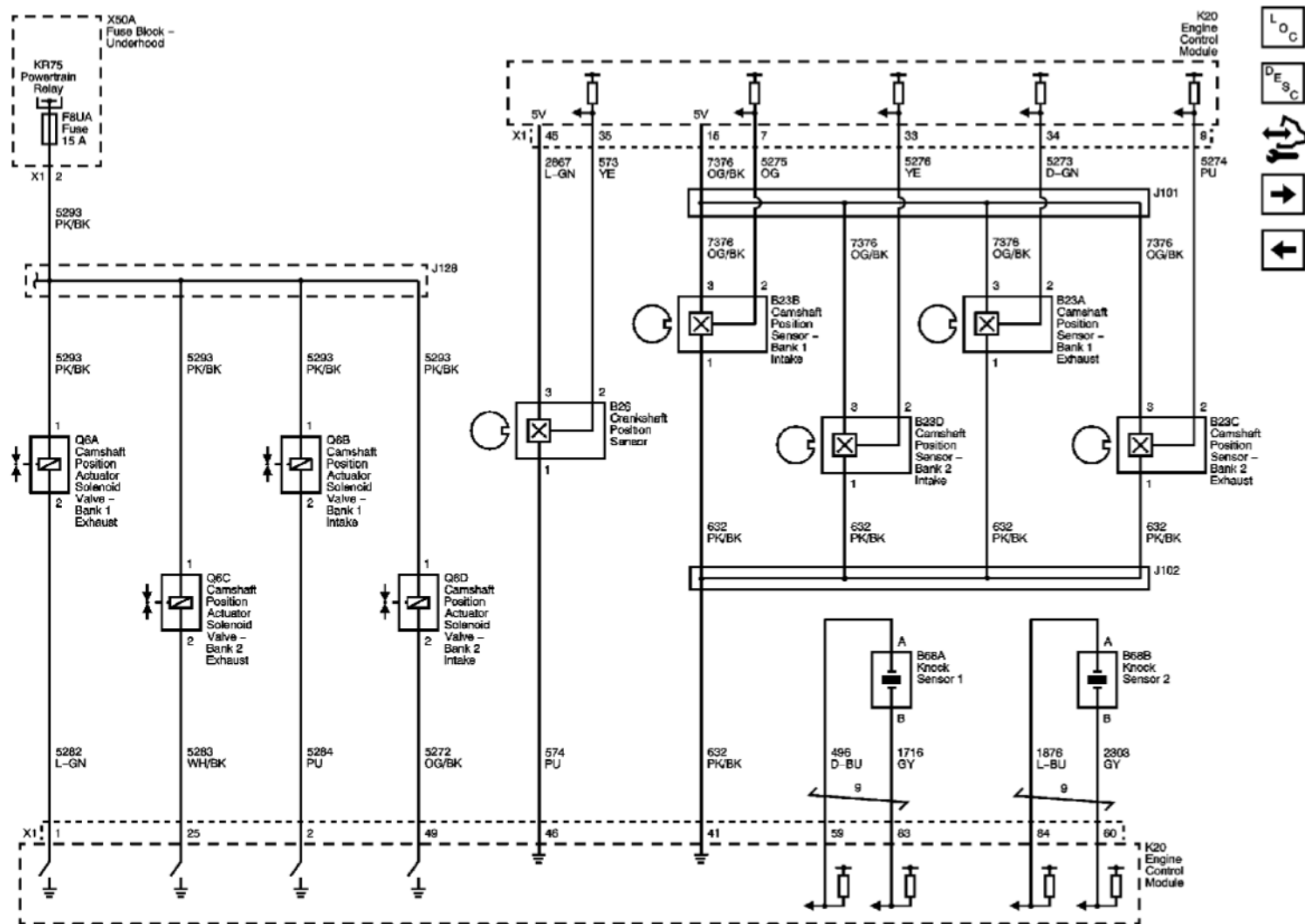
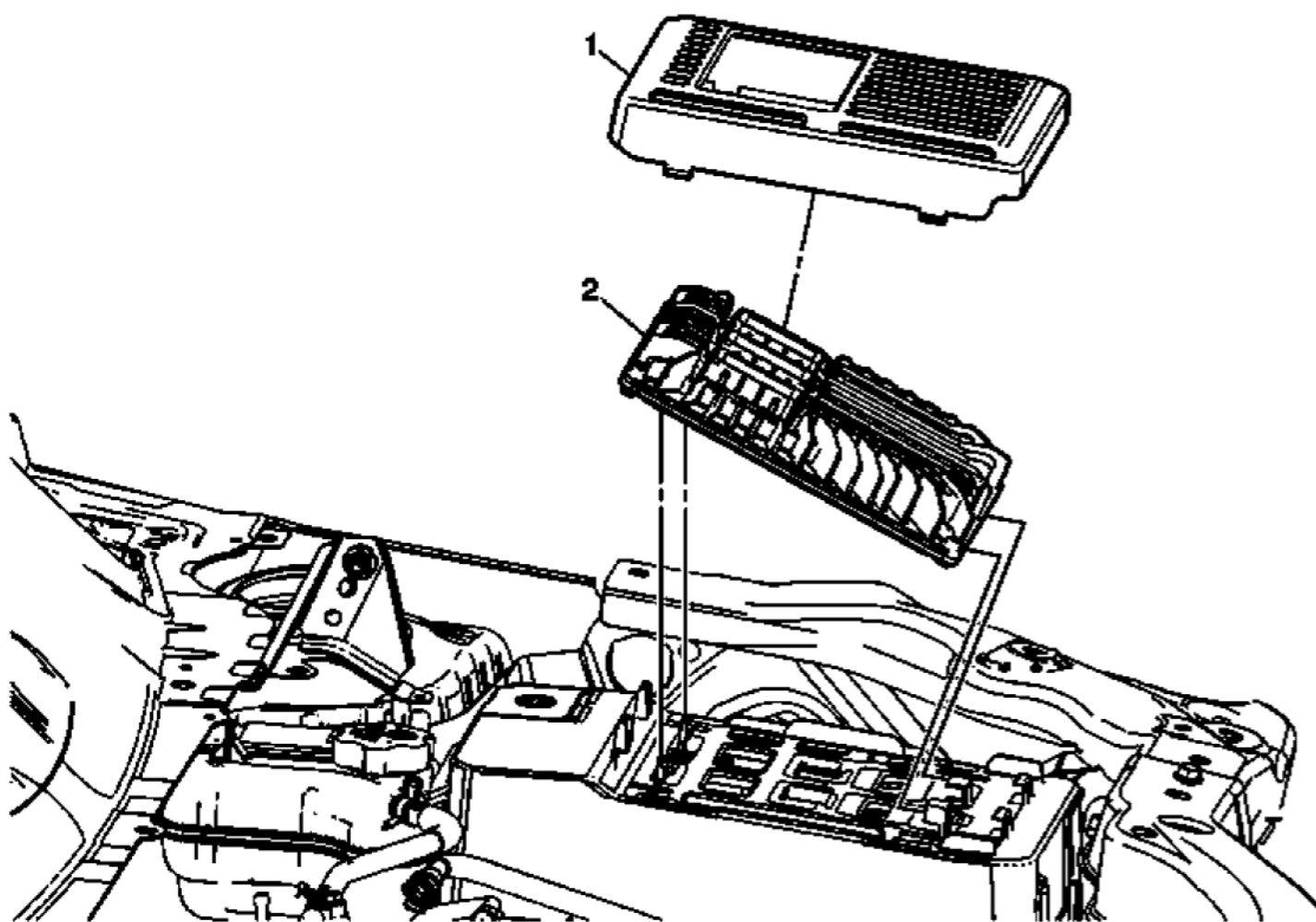


Fig. 1: Identifying Engine Control Module
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ENGINE PERFORMANCE Firing Order & Cylinder Identification - GM, & Saturn - All Models

All Other V6 Engines

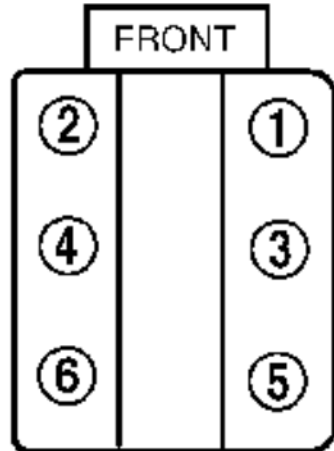
Engine Configuration	Firing Order	Cylinder Identification
All Others	1-2-3-4-5-6	 G00016203

Fig. 48: K20 Engine Control Module X1 (LAU) Connector End View

Courtesy of GENERAL MOTORS CORP.

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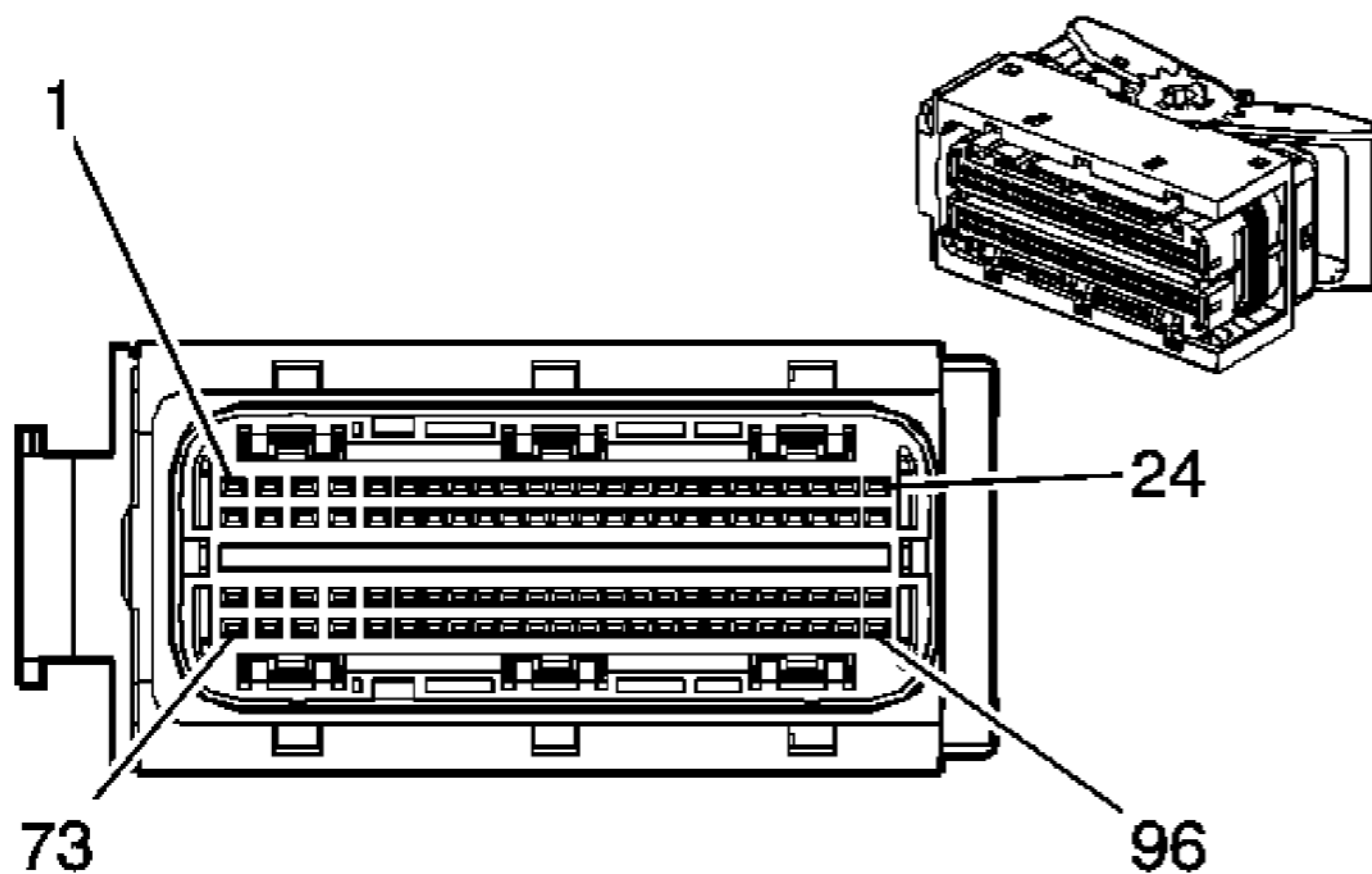
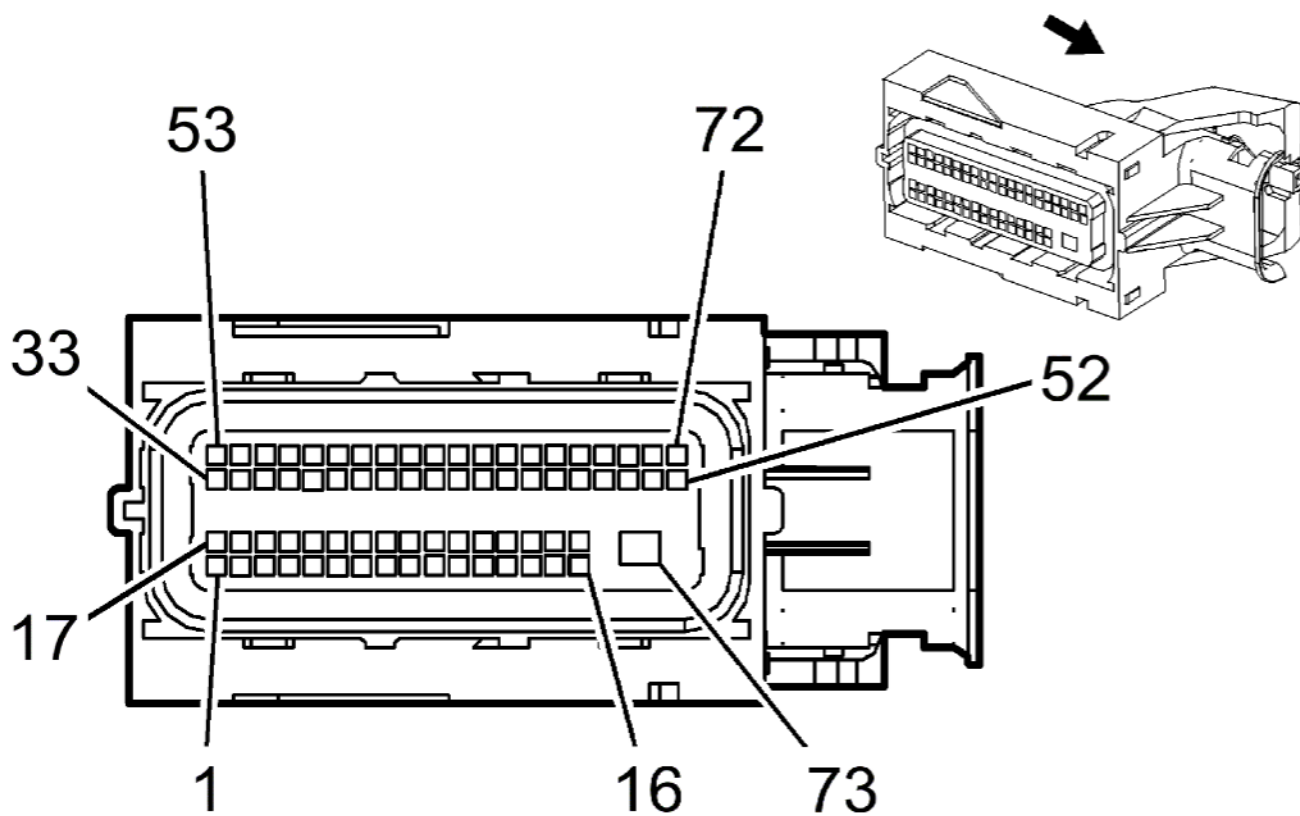


Fig. 49: K20 Engine Control Module X1 Connector End View (LF1)
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K20 ENGINE CONTROL MODULE X2 CONNECTOR END VIEW (LAU)

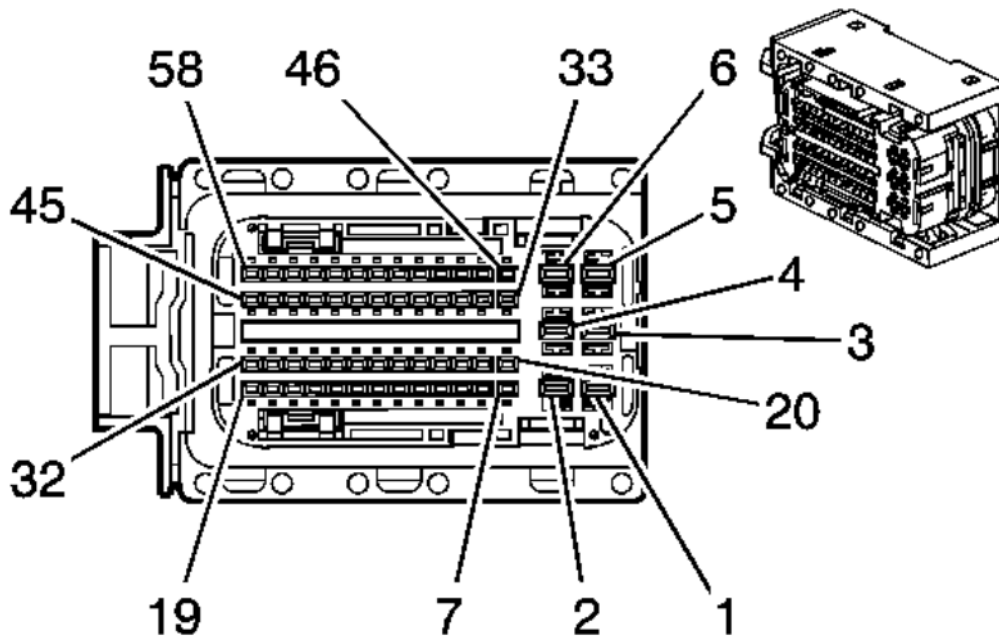


Fig. 1: K20 Engine Control Module X2 Connector End View (LAU)
Courtesy of GENERAL MOTORS CORP.

Connector Part Information

- Harness Type: Engine
- OEM Connector: 10866294
- Service Connector: 19115599
- Description: 58-Way F 280 Series Sealed (BK)

Terminal Part Information

- Pins: 1, 2, 4
- Terminated Lead: 13575442
- Release Tool: J-38125-561
- Diagnostic Test Probe: J-35616-35 (VT)
- Terminal/Tray: 1928498059/24
- Core/Insulation Crimp: 2/5
- Pins: 3, 5, 6
- Terminated Lead: 13575411
- Release Tool: J-38125-561

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- Diagnostic Test Probe: J-35616-35 (VT)
- Terminal/Tray: 1928498058/8
- Core/Insulation Crimp: E/1

- Pins: 7-15, 17, 19, 23, 25-27, 29, 34-36, 38-39, 41-42, 45-49, 52, 54-58
- Terminated Lead: 13575545
- Release Tool: J-38125-213
- Diagnostic Test Probe: J-35616-16 (L-GN)
- Terminal/Tray: 1928498135/19
- Core/Insulation Crimp: J/J

K20 Engine Control Module X2 (LAU)

Pin	Wire	Circuit	Function
1	2 BK/WH	451	Ground
2	2 BK/WH	451	Ground
3	0.8 PK/BK	5290	Ignition Voltage
4	2 BK/WH	451	Ground
5	0.8 PK/BK	5290	Ignition Voltage
6	0.8 PK/BK	5290	Ignition Voltage
7	0.5 TN/WH	1423	HO2S Heater Low Control - Bank 2
8	0.5 BN	436	AIR Pump Relay Control
9	0.5 BN/WH	6281	Low Reference
10	0.5 D-GN/WH	465	Fuel Pump Relay Control
11	0.5 TN	5514	Low Reference
12	0.5 BN/WH	419	MIL Control
13	0.5 YE	492	MAF Sensor Signal
14	0.5 GY	2709	5-Volt Reference 1
15	0.5 D-BU	1161	APP Sensor 1 Signal
16	-	-	Not Used
17	0.5 OG/BK	1786	Park/Neutral Signal
18	-	-	Not Used
19	0.5 WH	1310	EVAP Canister Vent Solenoid Control
20-22	-	-	Not Used
23	0.5 TN/WH	1669	HO2S Low Signal - Sensor 2
24	-	-	Not Used
25	0.5 L-BU	1162	APP Sensor 2 Signal
26	0.5 L-BU	1937	Fuel Level Sensor Signal - Secondary
27	0.5 D-GN	890	Fuel Tank Pressure Sensor Signal
28	-	-	Not Used
29	0.5 PK/WH	2092	Fuel Economy Mode Switch Signal
30-33	-	-	Not Used
34	0.5 BN	1271	Low Reference
35	0.5 GY	2700	5-Volt Reference
36	0.5 PU	1589	Fuel Level Sensor Signal - Primary

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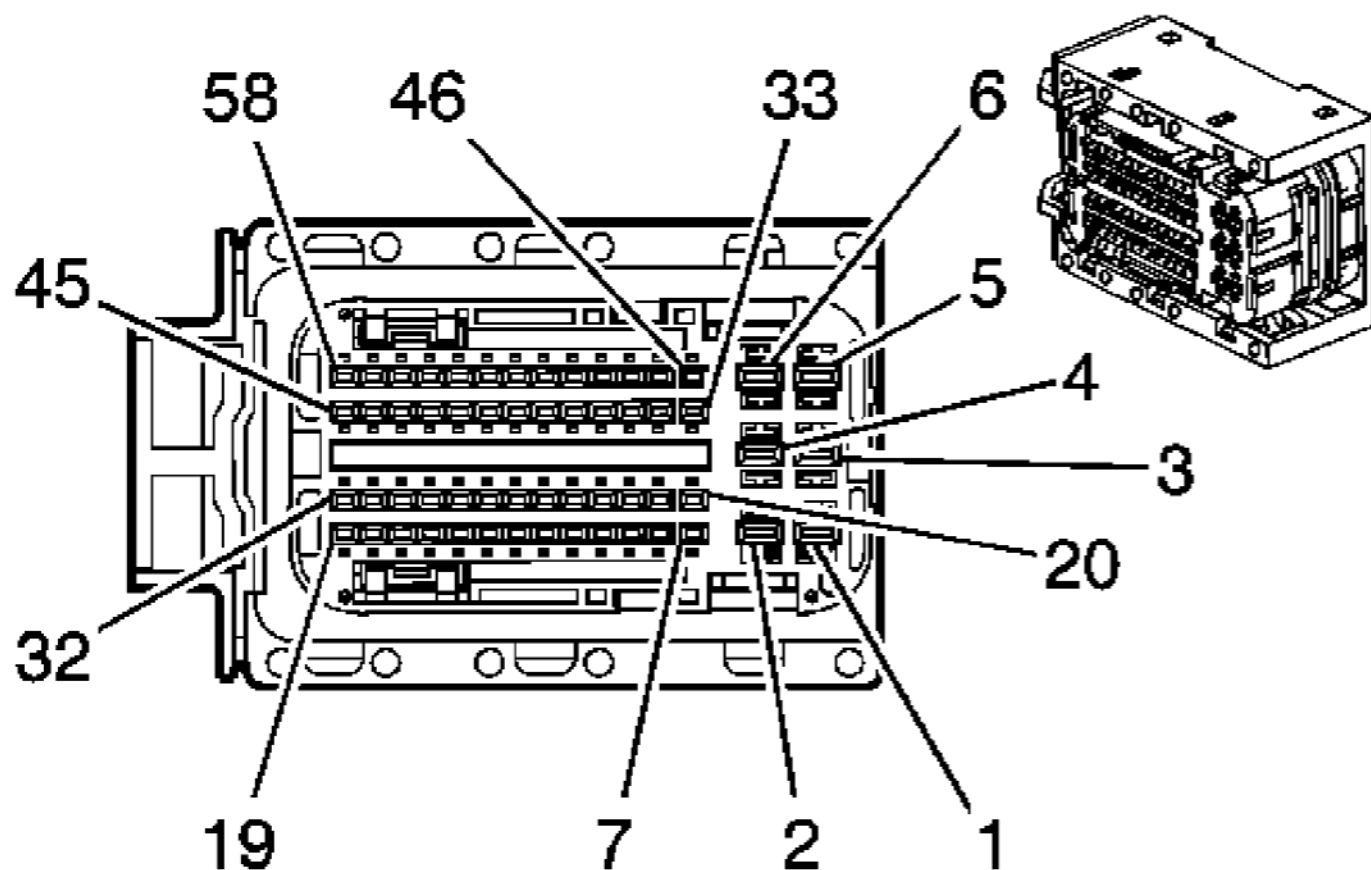
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37	-	-	Not Used
38	0.5 PU/WH	1668	HO2S High Signal - Sensor 2
39	0.5 OG/BK	380	A/C Refrigerant Pressure Sensor Signal
40	-	-	Not Used
41	0.5 D-BU	5985	Serial Data Wake - Up Signal
42	0.5 TN/BK	2500	High Speed GMLAN Serial Data Bus+
43-44	-	-	Not Used
45	0.5 GY	5127	Afterboil Coolant Pump Supply Voltage
46	0.5 D-GN	335	Low Speed Cooling Fan Relay Control
47	0.5 PU	1272	Low Reference
48	0.5 TN	1274	5-Volt Reference
49	0.5 WH/BK	1164	5-Volt Reference
50-51	-	-	Not Used
52	0.5 L-BU/WH	6311	Brake Pedal Switch Signal
53	-	-	Not Used
54	0.5 PK	439	Ignition Voltage
55	0.5 TN	2501	High Speed GMLAN Serial Data Bus -
56	0.5 RD/WH	440	Battery Positive Voltage
57	0.5 PU/WH	6386	Starter Relay Control
58	0.5 YE	5991	Powertrain Relay Control

Fig. 1: K20 Engine Control Module X2 Connector End View (LAU)

Courtesy of GENERAL MOTORS CORP.

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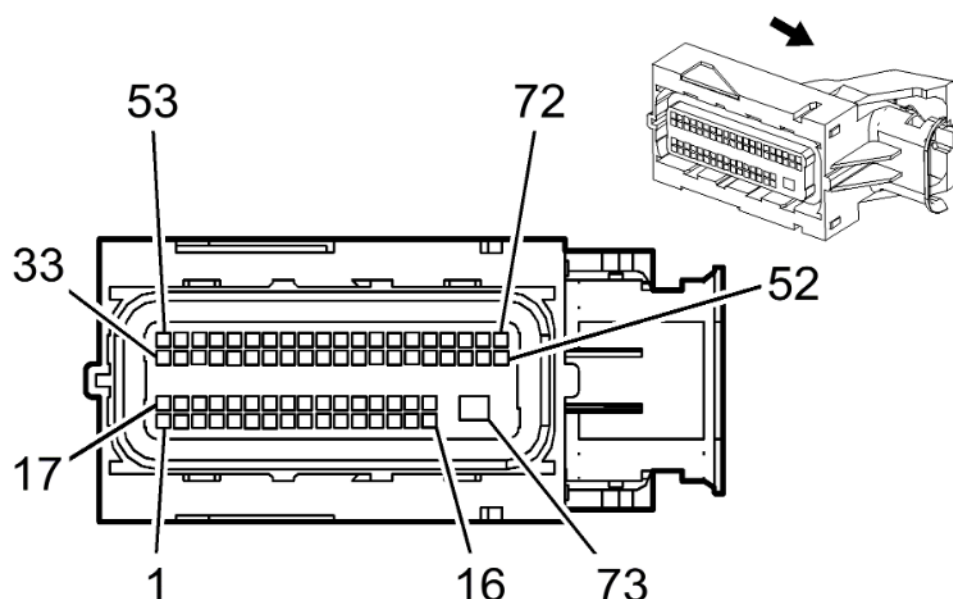
K20 ENGINE CONTROL MODULE X2 CONNECTOR END VIEW (LF1)

Fig. 2: K20 Engine Control Module X2 Connector End View (LF1)
 Courtesy of GENERAL MOTORS CORP.

Connector Part Information

- Harness Type: Engine
- OEM Connector: 13756653
- Service Connector: 13574947
- Description: 73-Way F MX123 34566 Series (BK with BK Insert)

Terminal Part Information

- Pins: 3, 10-13, 16, 18-19, 26-29, 32-37, 41-44, 49, 51-58, 61-63, 69
- Terminated Lead: 13575575
- Release Tool: J-38125-213
- Diagnostic Test Probe: J-35616-64B (L-BU)
- Terminal/Tray: 33467-0005/23
- Core/Insulation Crimp: J/J
- Pins: 73
- Terminated Lead: 13575351
- Release Tool: J-38125-12A
- Diagnostic Test Probe: J-35616-35 (VT)
- Terminal/Tray: 1326030-8/17
- Core/Insulation Crimp: A/4

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K20 Engine Control Module X2 (LF1)

Pin	Wire	Circuit	Function
1-2	-	-	Not Used
3	0.5 TN	808	Low Reference
4-9	-	-	Not Used
10	0.5 PU/WH	3110	HO2S Reference Voltage (Bank 1 Sensor 1)
11	0.5 PU/WH	3210	GMX215 HO2S Reference Voltage (Bank 2 Sensor 1)
12	0.5 PU	3120	HO2S High Signal (Bank 1 Sensor 2)
13	0.5 PU	3220	GMX215 HO2S High Signal (Bank 2 Sensor 2)
14	0.5 GY	2093	5-Volt Reference 2
15	-	-	Not Used
16	0.5 BN	582	TAC Motor Control - 2
17	-	-	Not Used
18	0.5 GY	598	5-Volt Reference 1
19	0.5 YE	2918	FRP Sensor Signal
20-25	-	-	Not Used
26	0.5 TN/WH	3111	HO2S Low Reference (Bank 1 Sensor 1)
27	0.5 TN/WH	3211	GMX215 HO2S Low Reference (Bank 2 Sensor 1)
28	0.5 TN/WH	3121	HO2S Low Signal (Bank 1 Sensor 2)
29	0.5 TN	3221	GMX215 HO2S Low Signal (Bank 2 Sensor 2)
30-31	-	-	Not Used
32	0.5 YE	581	TAC Motor Control - 1
33	0.5 D-GN	485	TP Sensor 1 Signal
34	0.5 GY	2701	5-Volt Reference 4
35	0.5 PU	486	TP Sensor 2 Signal
36	0.5 D-BU	496	Knock Sensor (KS) 1 Signal
37	0.5 L-BU	1876	Knock Sensor (KS) 2 Signal
38-40	-	-	Not Used
41	0.5 GY/WH	3113	HO2S Heater Low Control (Bank 1 Sensor 1)
42	0.5 GY/WH	3122	HO2S Heater Low Control (Bank 2 Sensor 1)
43	0.5 L-GN	432	MAP Sensor Signal
44	0.5 GY	2704	5-Volt Reference 1
45-48	-	-	Not Used
49	0.5 L-BU	6289	Intake Air Temperature Sensor Signal
50	0.5 PK/WH	2092	Brake Booster Vacuum Sensor Signal
51	0.5 D-GN/WH	428	EVAP Canister Purge Solenoid Control
52	0.5 YE	492	MAF Sensor Signal
53	0.5 BN	25	Charge Indicator Control/Charge Indicator Signal

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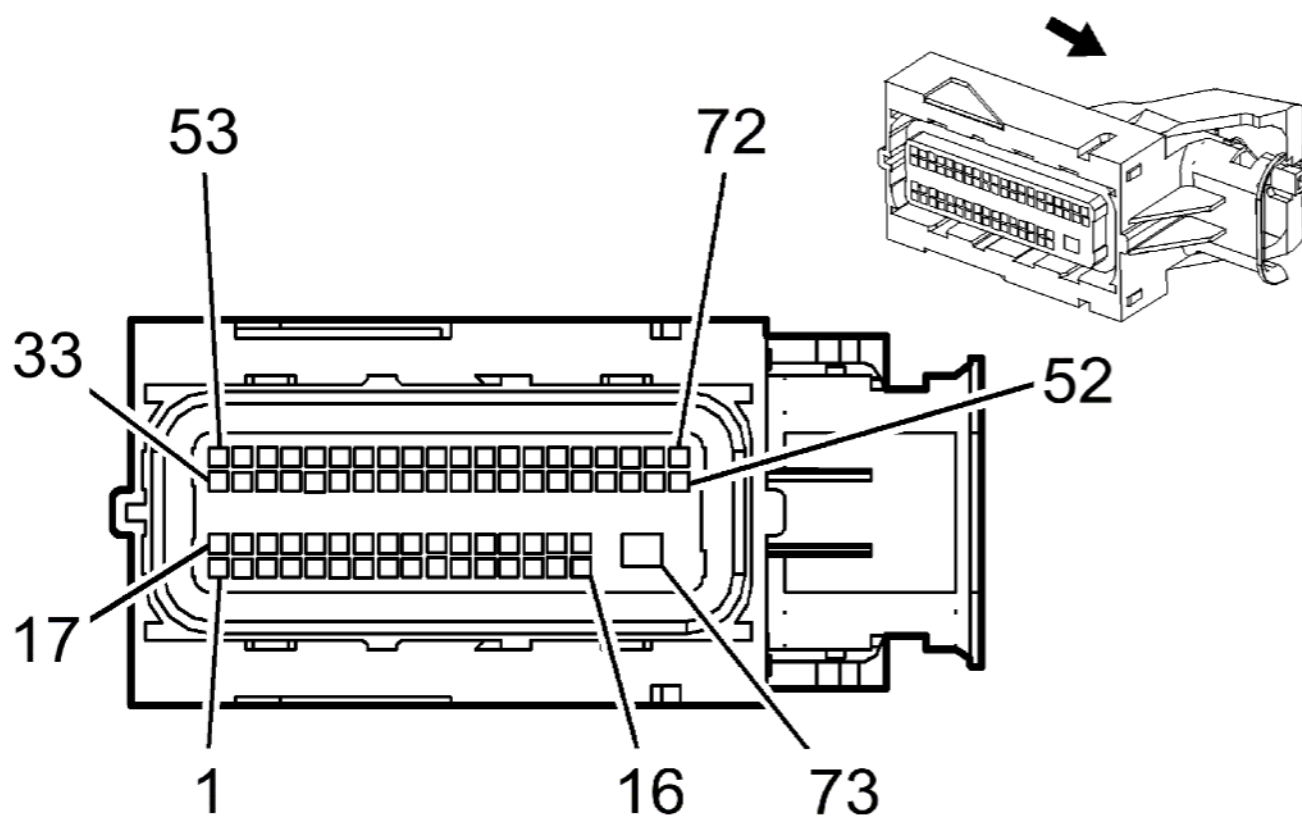
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54	0.5 TN	2752	Low Reference
55	0.5 GY	23	Generator Field Duty Cycle Signal
56	0.5 GY	1716	Knock Sensor (KS) 1 Signal
57	0.5 GY	2303	Knock Sensor (KS) 2 Signal
58	0.5 OG/BK	1786	Park/Neutral Signal
59-60	-	-	Not Used
61	0.5 L-GN	3212	HO2S Heater Low Control (Bank 2 Sensor 1)
62	0.5 OG/WH	3223	GMX215, GMX320 HO2S Heater Low Control (Bank 2 Sensor 2)
63	0.5 OG/BK	469	Low Reference
64-68	-	-	Not Used
69	0.5 TN	2760	Low Reference
70-72	-	-	Not Used
73	2 BK/WH	451	Ground

Fig. 2: K20 Engine Control Module X2 Connector End View (LF1)

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K20 ENGINE CONTROL MODULE X3 CONNECTOR END VIEW (LF1)

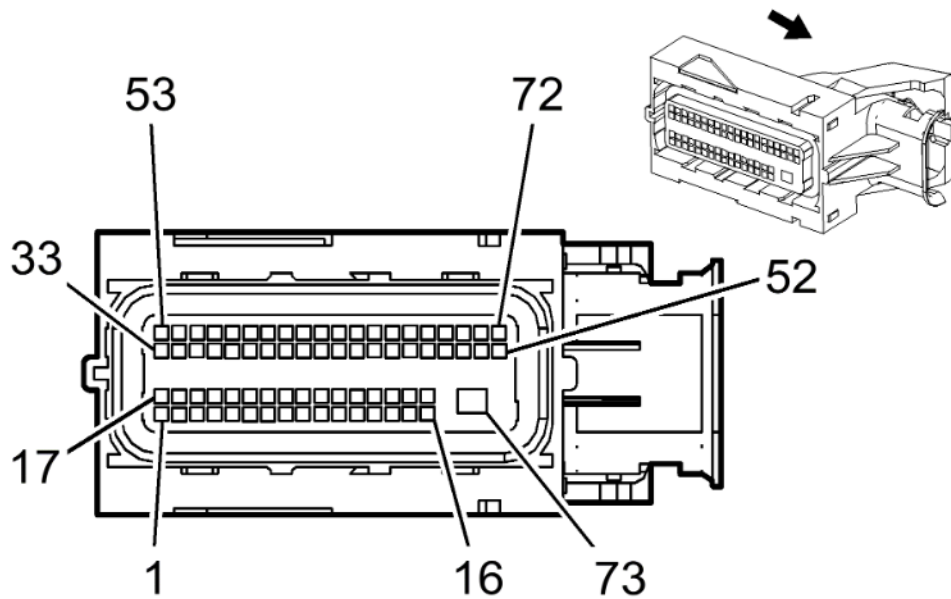


Fig. 3: K20 Engine Control Module X3 Connector End View (LF1)
Courtesy of GENERAL MOTORS CORP.

Connector Part Information

- Harness Type: Engine
- OEM Connector: 13742538
- Service Connector: 13574948
- Description: 73-Way F MX123 34566 Series (BK With GY Insert)

Terminal Part Information

- Pins: 8-10, 13-16, 23-42, 46-48, 50-62, 66-68, 70-72
- Terminated Lead: 13575575
- Release Tool: J-38125-213
- Diagnostic Test Probe: J-35616-64B (L-BU)
- Terminal/Tray: 33467-0005/23
- Core/Insulation Crimp: J/J
- Pins: 73
- Terminated Lead: 13575351
- Release Tool: J-38125-12A
- Diagnostic Test Probe: J-35616-35 (VT)
- Terminal/Tray: 1326030-8/17
- Core/Insulation Crimp: A/4

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K20 Engine Control Module X3 (LF1)

Pin	Wire	Circuit	Function
1-7	-	-	Not Used
8	0.5 YE	410	ECT Sensor Signal
9	0.5 TN/BK	231	Oil Pressure Switch Signal
10	0.5 GY	605	5-Volt Reference 2
11-12	-	-	Not Used
13	0.5 L-BU/WH	2126	IC 6 Control
14	0.5 D-GN	2125	IC 5 Control
15	0.5 BN/WH	2130	Low Reference
16	0.5 YE	7301	High Pressure Fuel Pump Actuator High Control
17-22	-	-	Not Used
23	0.5 TN	407	Low Reference
24	0.5 TN	476	Low Reference
25	0.5 TN	452	Low Reference
26	0.5 YE	573	CKP Sensor Signal
27	0.5 D-GN/WH	2124	IC 4 Control
28	0.5 L-BU	2123	IC 3 Control
29	0.5 OG/WH	2122	IC 2 Control
30	0.5 PU	2121	IC 1 Control
31	0.5 BN	2129	Low Reference
32	0.5 PU	7300	High Pressure Fuel Pump Actuator Low Control
33	0.5 OG	5275	Camshaft Position (CMP) Sensor - Intake Bank 1 Signal
34	0.5 D-BU	5300	5-Volt Reference 1
35	0.5 D-GN	5273	Camshaft Position (CMP) Sensor - Exhaust Bank 1 Signal
36	0.5 YE	5276	Camshaft Position (CMP) Sensor - Intake Bank 2 Signal
37	0.5 L-BU	5302	5-Volt Reference 1
38	0.5 PU	5274	Camshaft Position (CMP) Sensor - Exhaust Bank 2 Signal
39	0.5 PU	5284	CMP Actuator Solenoid Control - Intake Bank 1
40	0.5 L-GN	5282	CMP Actuator Solenoid Control - Exhaust Bank 1
41	0.5 OG/BK	5272	CMP Actuator Solenoid Control - Intake Bank 2
42	0.5 WH/BK	5283	CMP Actuator Solenoid Control - Exhaust Bank 2
43-45	-	-	Not Used
46	0.8 L-BU	4804	Fuel Injector 4 Control
47	0.8 L-GN	4805	Fuel Injector 5 Control
48	0.8 D-BU	4802	Fuel Injector 2 Control

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49	-	-	Not Used
50	0.8 D-GN	4803	Fuel Injector 3 Control
51	0.8 PU	4806	Fuel Injector 6 Control
52	0.8 BN	4801	Fuel Injector 1 Control
53	0.5 TN	5301	Low Reference
54	0.5 YE/BK	5297	5-Volt Reference 1
55	0.5 GY	5296	Low Reference
56	0.5 BN/WH	5303	Low Reference
57	0.5 L-GN	5298	5-Volt Reference 1
58	0.5 BN	5299	Low Reference
59	0.5 BN	6753	Low Reference
60	0.5 BN/WH	6754	Low Reference
61	0.5 D-BU	6755	Low Reference
62	0.5 D-BU/WH	6756	Low Reference
63-65	-	-	Not Used
66	0.8 L-BU/WH	4904	Fuel Injector 4 Control
67	0.8 L-GN/WH	4905	Fuel Injector 5 Control
68	0.8 D-BU/WH	4902	Fuel Injector 2 Control
69	-	-	Not Used
70	0.8 D-GN/WH	4903	Fuel Injector 3 Control
71	0.8 PU/WH	4906	Fuel Injector 6 Control
72	0.8 BN/WH	4901	Fuel Injector 1 Control
73	2 BK/WH	451	Ground

Fig. 3: K20 Engine Control Module X3 Connector End View (LF1)

Courtesy of GENERAL MOTORS CORP.

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