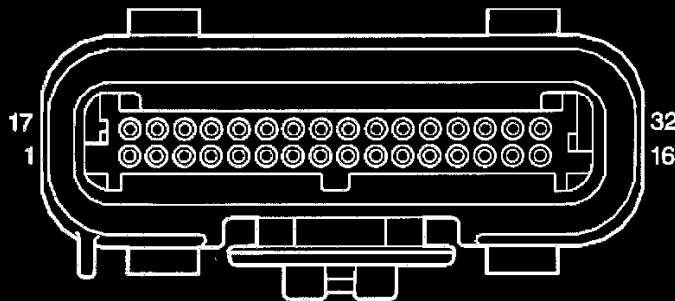


Vehicle: Connector Views

Engine Control Module

C001 Connector End View



358779

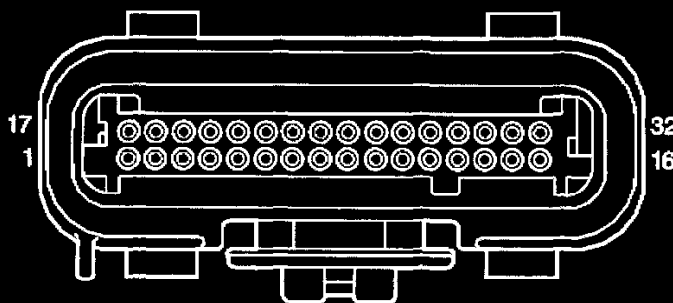
Connector Part Information

- Connector – 12129025
- Terminal – 12084912
- Seal – 12129026
- TPA (CLR) – 12129022
- 32 Pin (GRY/WHT/CLR)

Pin	Wire Color	Circuit No.	Function
1	LT BLU	901	Low Pressure Lock-Off Solenoid Control
2	DK GRN	903	Idle Solenoid Control
3	LT GRN	911	Fuel Control Solenoid Control
4	PPL	1666	Bank 2 Sensor 1 (Right Bank) HO2S High Signal Input
5	TAN	1667	Bank 2 Sensor 1 (Right Bank) HO2S Low (Ground)
6	PPL/WHT	1665	Bank 1 Sensor 1 (Left Bank) HO2S High Signal Input
7	TAN/WHT	1653	Bank 1 Sensor 1 (Left Bank) HO2S Low (Ground)
8-13	—	—	Not Used
14	BRN	912	Fuel Gauge Select Switch Signal Input
15	PNK	1020	AF ECM Power Supply - Ignition
16	ORN	1340	AF ECM Power Supply - Battery
17	—	—	Not Used
18	ORN	931	Fuel Tank Pressure (FTP) Sensor 5 Volt Reference
19	DK BLU	930	Sensor Ground (FTP/FTT)
20	BLK	925	Production Use - Serial Data Ground
21	BLK	450	AF ECM Ground
22	BLK	450	AF ECM Ground
23	BLK	450	AF ECM Ground
24	BLK	450	AF ECM Ground
25	—	—	Not Used
26	DK GRN/WHT	428	EVAP Canister Purge Signal
27-31	—	—	Not Used
32	RED	926	Production Use - Serial Data Power

C001 Connector End View

C002 Connector End View



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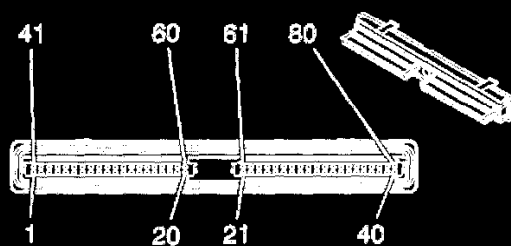
Connector Part Information

- Connector – 12129025
- Terminal – 12084912
- Seal – 12129026
- TPA (BLU) – 12129023
- 32 Pin

Pin	Wire Color	Circuit No.	Function
1	PPL	1807	Serial Data (Class 2)
2	DK BLU	919	Malfunction Indicator Lamp (MIL) Control
3	RED	2531	Natural Gas Operation (NGO) Enable
4	—	—	Not Used
5	WHT	924	Production Use - Serial Data Transmit
6	—	—	Not Used
7	DK GRN	2532	EVAP Canister Purge Enable
8	TAN/WHT	928	Fuel Level Output (CNG)
9	BLK	933	Lock-Off Relay Control
10	DK GRN	923	Production Use - Serial Data Receive
11	—	—	Not Used
12	YEL	410	Engine Coolant Temperature (ECT) Sensor Signal Input
13	TAN	472	Intake Air Temperature (IAT) Sensor Signal Input
14	LT GRN	432	Manifold Absolute Pressure (MAP) Sensor Signal Input
15	DK GRN	817	Vehicle Speed Input (4K Pulses Per Mile)
16	—	—	Not Used
17	YEL	492	Mass Air Flow (MAF) Sensor Signal Input
18	WHT	121	Engine Speed Signal Input (Tach)
19-21	—	—	Not Used
22	BRN/WHT	419	MIL Control Input (from gasoline control module MIL Output)
23	BRN	929	Fuel Tank Temperature (FTT) Sensor Signal Input (CNG)
24	GRY	932	Fuel Tank Pressure (FTP) Sensor Signal Input (CNG)
25-26	—	—	Not Used
27	DK BLU	417	Throttle Position (TP) Sensor Signal Input
28	ORN/BLK	469	Sensor Ground (from gasoline control module)
29	GRY	2704	5 Volt Reference Input (from gasoline control module)
30	BRN	905	Fuel Pump Relay Control (disables gasoline fuel pump when energized)
31	PPL	914	Fuel Indicator Lamp Control
32	GRY	904	Fuel Gauge Relay Control

C002 Connector End View

PCM Connector C1

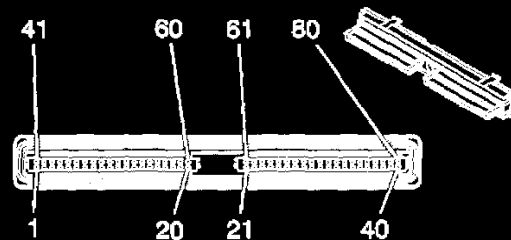


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Connector Part Information		<ul style="list-style-type: none"> • 12191110 • 80 pin PCM Connector C1 (BLU) 	
Pin	Wire Color	Circuit No.	Function
1	BLK/WHT	451	Ground
2	LT GRN	1867	12 Volt Reference
3	LT GRN/BLK	1745	Fuel Injector 2 Control
4	PNK/BLK	1746	Fuel Injector 3 Control
5-7	—	—	Not Used
8	GRY	2701	5 Volt Reference
9-11	—	—	Not Used
12	YEL	573	CKP Sensor [1] Signal
13-16	—	—	Not Used
17	DK BLU	1225	Transmission Fluid Pressure Switch Signal B
18	RED	1226	Transmission Fluid Pressure Switch Signal C
19	PNK	439	Ignition 1 Voltage
20	ORN	440	Battery Positive Voltage
21	YEL/BLK	1868	Low Reference
22	—	—	Not Used
23	BLK	470	Low Reference
24	—	—	Not Used
25	TAN	1671	HO2S Low Signal [- Bank 2 Sensor 2]
26	TAN	1667	HO2S Low Signal [- Bank 2 Sensor 1]
27	—	—	Not Used
28	TAN/WHT	1669	HO2S Low Signal [- Bank 1 Sensor 3]
29	TAN/WHT	1653	HO2S Low Signal [- Bank 1 Sensor 1]
30-31	—	—	Not Used
32	BLK/WHT	771	Transmission Range Switch Signal A
33	PPL	420	TCC Brake Switch Signal
34	WHT	776	Transmission Range Switch Signal P
35	—	—	Not Used
36	BLK	1744	Fuel Injector 1 Control
37	YEL/BLK	846	Fuel Injector 6 Control
38-39	—	—	Not Used
40	BLK/WHT	451	Ground
41	BLK	2753	EGR Sensor Ground

PCM Connector C1 (Part 1 Of 2)

PCM Connector C1

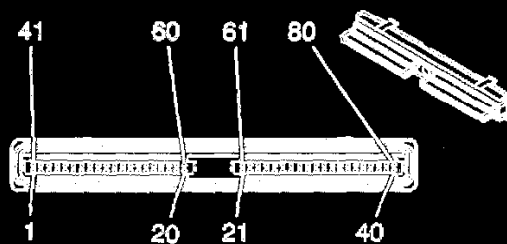


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Connector Part Information		<ul style="list-style-type: none"> • 12191110 • 80 pin PCM Connector C1 (BLU) 	
Pin	Wire Color	Circuit No.	Function
42	—	—	Not Used
43	LT BLU/BLK	844	Fuel Injector 4 Control
44	RED/BLK	877	Fuel Injector 7 Control
45	—	—	Not Used
47	GRY	2702	5 Volt Reference
48	GRY	2704	5 Volt Reference
49-50	—	—	Not Used
51	DK BLU	496	KS [1] Signal
52	—	—	Not Used
53	BLK	2762	Low Reference
54	ORN/BLK	469	Low Reference
55	BRN	1456	EGR Valve Position Signal
56	—	—	Not Used
57	ORN	440	Battery Positive Voltage
58	PPL	1807	Class 2 Serial Data (Primary)
59	PPL	1807	Class 2 Serial Data (Primary)
60	BLK	2752	Low Reference
61	PNK/BLK	632	Low Reference
62-84	—	—	Not Used
65	PPL	1670	HO2S High Signal [- Bank 2 Sensor 2]
66	PPL	1666	HO2S High Signal [- Bank 2 Sensor 1]
67	—	—	Not Used
68	PPL/WHT	1668	HO2S High Signal [- Bank 1 Sensor 3]
69	PPL/WHT	1665	HO2S High Signal [- Bank 1 Sensor 1]
70-71	—	—	Not Used
72	YEL	772	Transmission Range Switch Signal B
73	BRN/WHT	633	CMP Sensor Signal
74	YEL	410	ECT Sensor Signal
75	PNK	1020	Off/Run/Crank Voltage
76	BLK/WHT	845	Fuel Injector 5 Control
77	DK BLU/WHT	878	Fuel Injector 8 Control
78	—	—	Not Used
79	WHT	687	3-2 Shift Solenoid Valve Control
80	BLK	2761	Low Reference

PCM Connector C1 (Part 2 Of 2)

PCM Connector C2

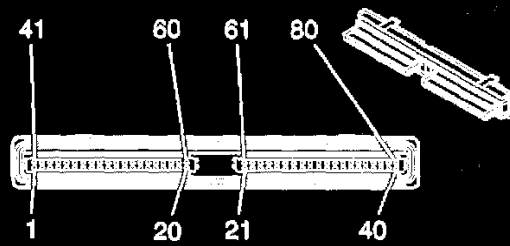


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Connector Part Information		<ul style="list-style-type: none"> • 12191110 • 80 Pin PCM Connector C2 (RED) 	
Pin	Wire Color	Circuit No.	Function
1	BLK/WHT	451	Ground
2	BRN	418	TCC PWM Solenoid Valve Control
3-5	—	—	Not Used
6	RED/BLK	1228	PC Solenoid Valve High Control (Sol. A)
7	RED	1676	EGR Valve Supply Voltage
8	LT BLU/WHT	1229	PC Solenoid Valve Low Control (Sol. A)
9	DK GRN/WHT	465	Fuel Pump Relay Control [- Primary]
10-12	—	—	Not Used
13	BLU/BLK	396	Cruise Control Engaged Signal
14	—	—	Not Used
15	RED	225	Generator Turn On Signal
16	—	—	Not Used
17	DK GRN/WHT	2523	A/C Request Signal
18-19	—	—	Not Used
20	LT GRN/BLK	822	VSS Low Signal
21	PPL/WHT	821	VSS High Signal
22	RED/BLK	1230	AT ISS High Signal
23	DK BLU/WHT	1231	AT ISS Low Signal
24	DK BLU	417	TP Sensor Signal
25	TAN	472	IAT Sensor Signal
26	WHT	423	IC Timing Control
27-30	—	—	Not Used
31	YEL	492	MAF Sensor Signal
32	LT GRN	432	MAP Sensor Signal
33	—	—	Not Used
34	DK GRN/WHT	428	EVAP Canister Purge Solenoid Control
35	BRN	25	Charge Indicator Control
36	BRN	436	AIR Pump Relay Control
37	—	—	Not Used
38	PPL	30	Fuel Level Sensor Signal
39	RED	631	12 Volt Reference
40	BLK/WHT	451	Ground
41	WHT	257	EGR Solenoid Control
42	TAN/BLK	422	TCC Solenoid Valve Control
43	DK GRN/WHT	459	A/C Clutch Relay Control

PCM Connector C2 (Part 1 Of 2)

PCM Connector C2



73173

Connector Part Information		<ul style="list-style-type: none"> • 12191110 • 80 Pin PCM Connector C2 (RED) 	
Pin	Wire Color	Circuit No.	Function
44	—	—	Not Used
45	WHT	1310	EVAP Canister Vent Solenoid Control
46	BRN/WHT	419	MIL Control
47	YEL/BLK	1223	(2-3 Shift Solenoid or Shift Solenoid B) Valve Control
48	LT GRN	1222	(1-2 Shift Solenoid or Shift Solenoid A) Valve Control
49	YEL/BLK	1827	Vehicle Speed Signal
50	DK GRN/WHT	817	VSS Signal
51	YEL/BLK	1227	TFT Sensor Signal
52	GRY	23	Generator Field Duty Cycle Signal
53	—	—	Not Used
54	PPL	1589	Fuel Level Sensor Signal [- Primary]
55	DK GRN	603	A/C Refrigerant Low Pressure Cut-Out Switch Signal
56	—	—	Not Used
57	BLK	2760	Low Reference
58-61	—	—	Not Used
62	GRY	773	Transmission Range Switch Signal C
63	PNK	1224	Transmission Fluid Pressure Switch Signal A
64	DK GRN	890	Fuel Tank Pressure Sensor Signal
65-75	—	—	Not Used
76	LT GRN/WHT	1749	IAC Coil B High Control
77	LT GRN/BLK	444	IAC Coil B Low Control
78	LT BLU/BLK	1748	IAC Coil A Low Control
79	LT BLU/WHT	1747	IAC Coil A High Control
80	—	—	Not Used

PCM Connector C2 (Part 2 Of 2)