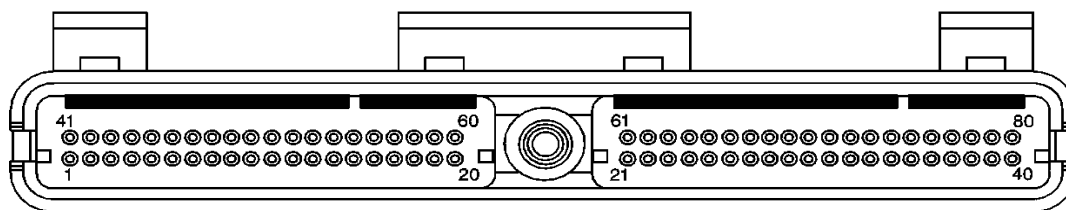


Powertrain Control Module Connector End Views

Table 1: [Powertrain Control Module \(PCM\) C1 \(BLU\)](#)

Table 2: [Powertrain Control Module \(PCM\) C2 \(RED\)](#)

Powertrain Control Module (PCM) C1 (BLU)



Connector Part Information		<ul style="list-style-type: none"> ● PCM Connector C1 Assembly 12191489 ● TPA (BLU) 12176408 ● Connector Cover 12191108 	
Pin	Wire Color	Circuit No.	Function
1	BLK/WHT	451	Ground
2	LT GRN	1867	12 Volt Reference
3	PNK/BLK	1746	Fuel Injector 3 Control

4	LT GRN/BLK	1745	Fuel Injector 2 Control
5-10	--	--	© 2014 General Motors Corporation. All rights reserved. Not Used
11	LT BLU	1876	Knock Sensor 2 Signal
12	DK BLU/WHT	1869	CKP Sensor Signal
13	ORN/BLK	463	Requested Torque Signal
14	ORN/BLK	1061	UART Serial Data [Secondary]
15	DRK BLU/WHT	774	UART Serial Data [Tertiary]
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	1868	Low Reference
22	--	--	Not Used

23	PPL	719	Low Reference
24	--	--	Not Used
25	TAN	1671	HO2S Low Signal [- Bank 2 Sensor 1]
25	TAN	413	HO2S Low Reference (Denso Sensors) HO2S Low Signal (Delphi Sensors)
26	TAN	1667	HO2S Low Signal [- Bank 2 Sensor 2]
26	TAN	413	HO2S Low Reference (Denso Sensors) HO2S Low Signal (Delphi Sensors)
27	--	--	Not Used
28	TAN/WHT	1669	HO2S Low Signal [- Bank 1 Sensor 2]
28	TAN	413	HO2S Low Reference (Denso Sensors) HO2S Low Signal (Delphi Sensors)
29	TAN/WHT	1653	HO2S Low Signal [- Bank 1 Sensor 1]
29	TAN	413	HO2S Low Reference (Denso Sensors) HO2S Low Signal (Delphi Sensors)
30	LT GRN	1478	Coolant Level Switch Signal
31	--	--	Not Used
32	BLK/WHT	771	Transmission Range Switch Signal A

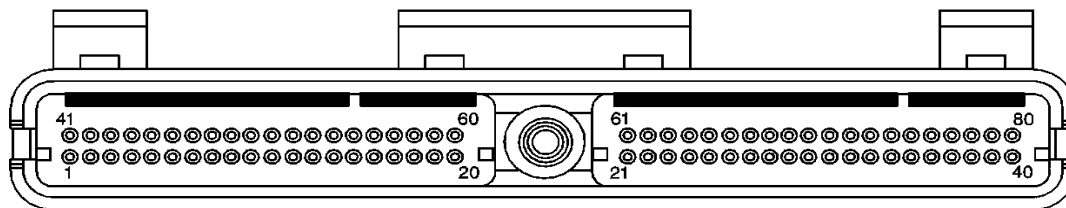
33	PPL	420	TCC Brake Switch Signal
34	WHT	776	Transmission Range Switch Signal P
35	GRA	48	CPP Switch Signal
36	BLK	1744	Injector 1 Control
37	YEL/BLK	846	Injector 6 Control
38	PNK/WHT	1101	Damping Lift/Dive Signal
39	--	--	Not Used
40	BLK/WHT	451	Ground
41	BLK	407	Low Reference
41	GRA	720	Low Reference (w/o Delphi HO2S)
42	--	--	Not Used
43	RED/BLK	877	Fuel Injector 7 Control
44	LT BLU/BLK	844	Fuel Injector 4 Control
45	GRA	474	5 Volt Reference (FTP Sensor)

46	GRY	474	5 Volt Reference (TPS Sensor)
47	GRY	597	5 Volt Reference (MAP Sensor)
48	GRA	596	5 Volt Reference (EGR Sensor)
49 50	--	--	Not Used
51	DK BLU	496	KS [1] Signal
52	--	--	Not Used
53	BLK	470	Low Reference
54	BLK	452	Low Reference
55	BRN	1456	EGR Valve Position Signal
56	--	--	Not Used
57	ORN	440	Battery Positive Voltage
58	DK GRN	1049	ECM/PCM/VCM Class 2 Serial Data
59	YEL	710	Class 2 Serial Data
60	ORN/BLK	469	Low Reference

61	PNK/BLK	632	Low Reference
62	--	--	Not Used
63	GRA	720	Low Reference
63	TAN	413	HO2S Low Reference (Denso Sensors) HO2S Low Signal (Delphi Sensors)
64	--	--	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 2]
69	PPL/WHT	1665	HO2S High Signal [- Bank 1 Sensor 1]
70	BRN	1174	Oil Level Switch Signal
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	ORN/BLK	510	Low Reference

Powertrain Control Module (PCM) C2 (RED)



Connector Part Information

- **PCM Connector C2 Assembly 12191488**
- **TPA (RED) 12176410**
- **Connector Cover 12191108**