

Powertrain Control Module (PCM) Connector End Views

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

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

Powertrain Control Module (PCM) C1

Connector Part Information			
		<ul style="list-style-type: none"> • 12191489 • 80-Way F Micro-Pack 100 Series (BU) 	
Pin	Wire Color	Circuit No.	Function
1	BK/WH	451	Ground
2	L-GN	1867	12-Volt Reference
3	PK/BK	1746	Fuel Injector 3 Control
4	L-GN/BK	1745	Fuel Injector 2 Control
5-6	--	--	Not Used
7	GY	2705	5-Volt Reference
8-10	--	--	Not Used
11	L-BU	1876	Knock Sensor 2 Signal
12	D-BU/ WH	1869	CKP Sensor Signal
13	OG/BK	463	Requested Torque Signal
14	OG/BK	1061	UART Serial Data
15	D-BU/WH	774	UART Serial Data

16	--	--	Not Used
17	D-BU	1225	Transmission Fluid Pressure Switch Signal B
18	RD	1226	Transmission Fluid Pressure Switch Signal C
19	PK	439	Ignition 1 Voltage
20	OG	440	Battery Positive Voltage
21	YE/BK	1868	Low Reference
22	--	--	Not Used
23	BK	470	Low Reference
24	BK/WH	451	Ground
25	TN	1671	HO2S Low Signal - Bank 2 Sensor 2
26	TN	1667	HO2S Low Signal - Bank 2 Sensor 1
27	BK/WH	451	Ground
28	TN/WH	1669	HO2S Low Signal - Bank 1 Sensor 2
29	TN	1664	HO2S Low Signal - Bank 1 Sensor 1
30 - 31	--	--	Not Used
32	BK/WH	771	Transmission Range Switch Signal A
33	PU	420	TCC Brake Switch/Cruise Control Release Switch Signal
34	WH	776	Transmission Range Switch Signal P
35	GY	48	CPP Switch Signal

36	BK	1744	Fuel Injector 1 Control
37	YE/BK	846	Fuel Injector 6 Control
38	PK/WH	1101	Damping Lift/Dive Signal
39	YE/BK	625	Starter Enable Relay Control
40	BK/WH	451	Ground
42	D-GN	335	Low Speed Cooling Fan Relay Control
43	RD/BK	877	Fuel Injector 7 Control
44	L-BU/BK	844	Fuel Injector 4 Control
45	GY	2700	5-Volt Reference
46	GY	474	5-Volt Reference
47	--	--	Not Used
48	GY	597	5-Volt Reference
49-50	--	--	Not Used
51	D-BU	496	Knock Sensor 1 Signal
52	--	--	Not Used
53	GY	720	Low Reference
54	OG/BK	469	Low Reference
55	--	--	Not Used
56	WH	1579	Fuel Temperature/Composition Signal (L59)
57	OG	440	Battery Positive Voltage

58	D-GN	1049	Class 2 Serial Data
59-60	--	--	Not Used
61	PK/BK	632	Low Reference
62	--	--	Not Used
63	BK	2755	Low Reference
64	BK/WH	451	Ground
65	PU	1670	HO2S High Signal - Bank 2 Sensor 2
66	PU	1666	HO2S High Signal - Bank 2 Sensor 1
67	BK/WH	451	Ground
68	PU/WH	1668	HO2S High Signal - Bank 1 Sensor 2
69	PU/WH	1665	HO2S High Signal - Bank 1 Sensor 1
70	BN	1174	Oil Level Switch Signal
71	--	--	Not Used
72	YE	772	Transmission Range Switch Signal B
73	BN/WH	633	CMP Sensor Signal
74	YE	410	ECT Sensor Signal
75	PK	1020	Ignition 0 Voltage
76	BK/WH	845	Fuel Injector 5 Control
77	D-BU/ WH	878	Fuel Injector 8 Control

78	--	--	Not Used
79	WH	687	3-2 Shift Solenoid Valve Control (M30/M32)
80	BK	407	Low Reference

Powertrain Control Module (PCM) C2

Connector Part Information		<ul style="list-style-type: none"> • 12191488 • 80-Way F Micro-Pack 100 Series (GN) 	
Pin	Wire Color	Circuit No.	Function
1	BK/WH	451	Ground
2	BN	418	TCC PWM Solenoid Valve Control
3	TN	1465	Fuel Pump Relay Control - Secondary (Except L59)
4	--	--	Not Used
5	TN/BK	464	Delivered Torque Signal
6	RD/BK	1228	PC Solenoid Valve High Control
7	--	--	Not Used
8	L-BU/WH	1229	PC Solenoid Valve Low Control
9	D-GN/ WH	465	Fuel Pump Relay Control
10	WH	121	Engine Speed Signal
11-13	--	--	Not Used
14	RD/BK	380	A/C Refrigerant Pressure Sensor Signal

15	PU	5428	Generator Regulator Control
16	GY/BK	1694	4WD Low Signal
17	--	--	Not Used
18	D-GN	1433	Clutch Start Switch Signal
19	BK/WH	1695	Axle Switch Signal (4WD)
20	L-GN/BK	822	VSS Low Signal
21	PU/WH	821	VSS High Signal
22	RD/BK	1230	AT ISS High Signal (MT1)
23	D-BU/ WH	1231	AT ISS Low Signal (MT1)
24	--	--	Not Used
25	TN	472	IAT Sensor Signal
26	PU	2121	IC 1 Control
27	RD	2127	IC 7 Control
28	L-BU/WH	2126	IC 6 Control
29	D-GN/ WH	2124	IC 4 Control
30	--	--	Not Used
31	YE	492	MAF Sensor Signal
32	L-GN	432	MAP Sensor Signal

33	D-BU	473	High Speed Cooling Fan Relay Control
34	D-GN/ WH	428	EVAP Canister Purge Solenoid Control
35-38	--	--	Not Used
39	RD	631	12-Volt Reference
40	BK/WH	451	Ground
41	--	--	Not Used
42	TN/BK	422	TCC Solenoid Valve Control (M30/M32)
43	D-GN/ WH	459	A/C Compressor Clutch Relay Control
44	--	--	Not Used
45	WH	1310	EVAP Canister Vent Solenoid Control
46	BN/WH	419	MIL Control
47	YE/BK	1223	2-3 Shift Solenoid Valve Control
48	L-GN	1222	1-2 Shift Solenoid Valve Control
49	YE/BK	1827	Vehicle Speed Signal
50	D-GN/ WH	817	Vehicle Speed Signal
51	YE/BK	1227	TFT Sensor Signal
52	BN	2391	HO2S Heater Low Control Bank 1 Sensor 2

53	RD/WH	3223	HO2S Heater Low Control Bank 2 Sensor 2
54	PU	1589	Fuel Level Sensor Signal - Primary
55-56	--	--	Not Used
57	BK	552	Low Reference
58	TN/WH	332	Oil Pressure Sensor Signal
59	PU	806	Crank Voltage
60	BN	2129	Low Reference
61	BN/WH	2130	Low Reference
62	GY	773	Transmission Range Switch Signal C
63	PK	1224	Transmission Fluid Pressure Switch Signal A
64	D-GN	890	Fuel Tank Pressure Sensor Signal
65	--	--	Not Used
66	PU/WH	2128	IC 8 Control
67	RD/WH	2122	IC 2 Control
68	D-GN	2125	IC 5 Control
69	L-BU	2123	IC 3 Control
70-71	--	--	Not Used
72	BK/WH	3113	HO2S Heater Low Control Bank 1 Sensor 1
73	D-BU	1936	Fuel Level Sensor Signal - Secondary
74	L-GN	3212	HO2S Heater Low Control Bank 2 Sensor 1

75	GY	23	Generator Field Duty Cycle Signal
76-79	--	--	Not Used
80	BK	2751	Low Reference
