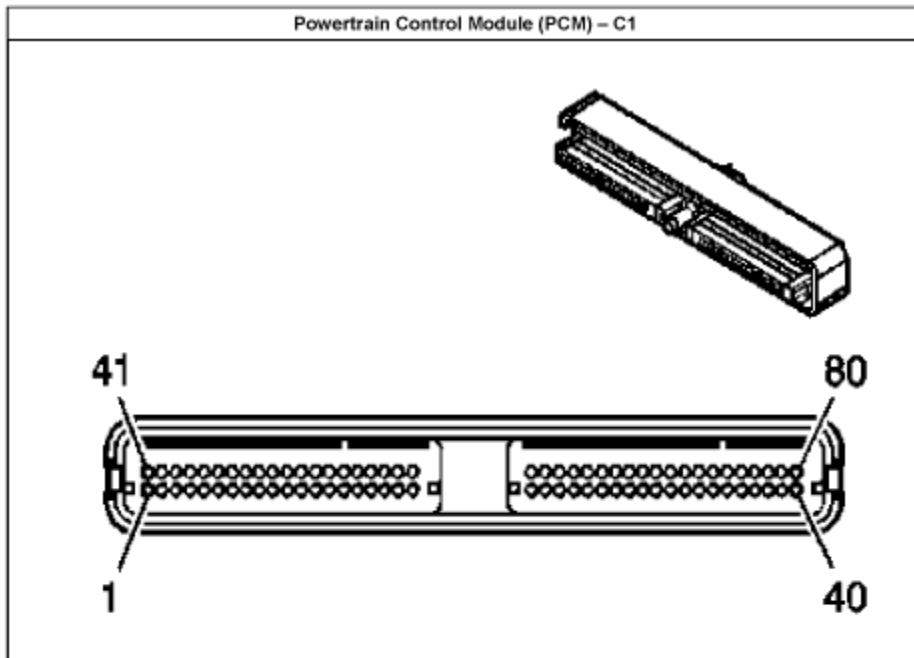
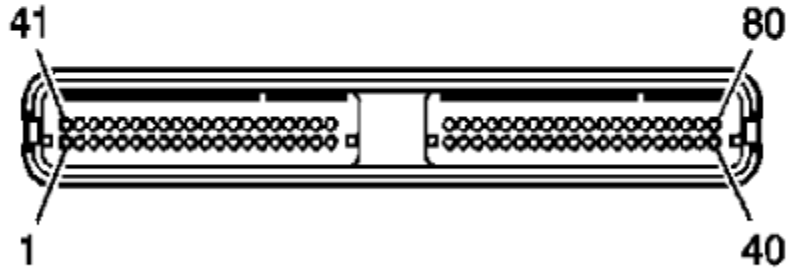
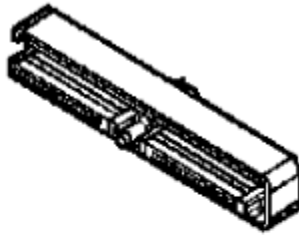


Engine Control Module



Connector Part Information		<ul style="list-style-type: none"> • 12191489 • 80-Way F Micro-Pack 100W Sealed (BU) 	
Pin	Wire Color	Circuit No.	Function
1	BK	750	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 A
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	TN	800	UART Serial Data
15	D-BU/WH	774	UART Serial Data
16-18	—	—	Not Used
19	PK	239	Ignition 1 Voltage
20	RD/WH	1440	Battery Positive Voltage
21	YE/BK	1868	Low Reference
22	—	—	Not Used
23	TN	452	Low Reference
24	BK/WH	1451	Ground
25	TN	1671	HO2S Low Signal - Bank 2 Sensor 2

Powertrain Control Module (PCM) – C1



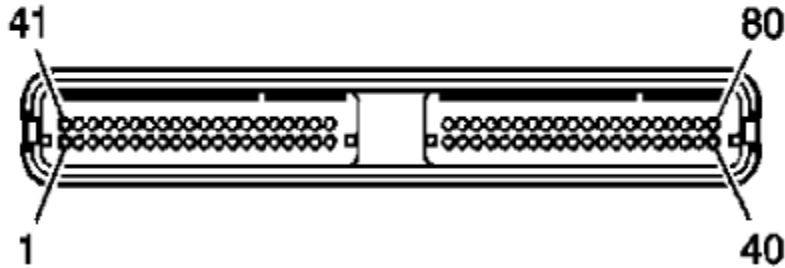
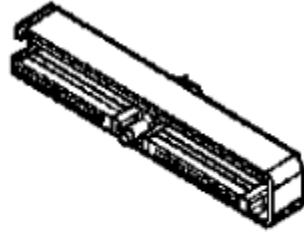
Connector Part Information

- 12191489
- 80-Way F Micro-Pack 100W Sealed (BU)

Pin	Wire Color	Circuit No.	Function
26	TN	1667	HO2S Low Signal - Bank 2 Sensor 1
27	BK/WH	1551	Ground
28	TN/WH	1669	HO2S Low Signal - Bank 1 Sensor 2
29	TN	1664	HO2S Low Signal - Bank 1 Sensor 1
30-34	—	—	Not Used
35	BN/WH	379	CPP Switch Signal
36	TN	1744	Fuel Injector 1 Control
37	YE/BK	846	Fuel Injector 6 Control
38	—	—	Not Used
39	YE	447	Starter Relay Coil Control
40	BK	750	Ground
41	—	—	Not Used
42	D-GN	335	Low Speed Cooling Fan Relay Control
43	OG/BK	877	Fuel Injector 7 Control
44	L-BU/BK	844	Fuel Injector 4 Control
45	GY	2700	5-Volt Reference B
46	GY	596	5-Volt Reference B
47	—	—	Not Used
48	GY	2704	5-Volt Reference A
49-50	—	—	Not Used
51	D-BU	496	Knock Sensor 1 Signal
52	—	—	Not Used
53	OG/BK	1057	Low Reference

Powertrain Control Module (PCM) - C1 Part 2

Powertrain Control Module (PCM) – C1

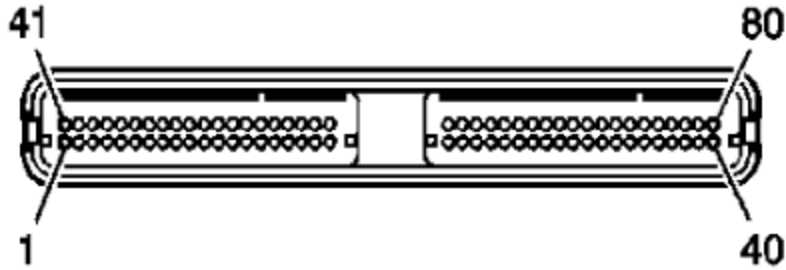
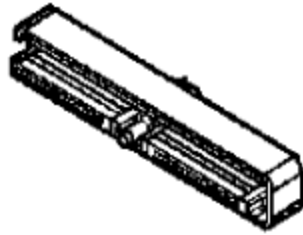


Connector Part Information

- 12191489
- 80-Way F Micro-Pack 100W Sealed (BU)

Pin	Wire Color	Circuit No.	Function
54	OG/BK	469	Low Reference
55–56	—	—	Not Used
57	RD/WH	1440	Battery Positive Voltage
58	PU	1807	Class 2 Serial Data
59	PU	1807	Class 2 Serial Data
60	—	—	Not Used
61	PK/BK	632	Low Reference
62	GY	847	Extended Travel Brake Switch Signal
63	BK	2755	Low Reference
64	BK/WH	1451	Ground
65	PU	1670	HO2S High Signal - Bank 2 Sensor 2
66	PU	1666	HO2S High Signal - Bank 2 Sensor 1
67	BK/WH	1551	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
71–72	—	—	Not Used
73	BN/WH	633	CMP Sensor Signal
74	YE	410	ECT Sensor Signal
75	—	—	Not Used
76	TN/WH	845	Fuel Injector 5 Control
77	D-BU/WH	878	Fuel Injector 8 Control
78	—	—	Not Used

Powertrain Control Module (PCM) – C1



Connector Part Information

- 12191489
- 80-Way F Micro-Pack 100W Sealed (BU)

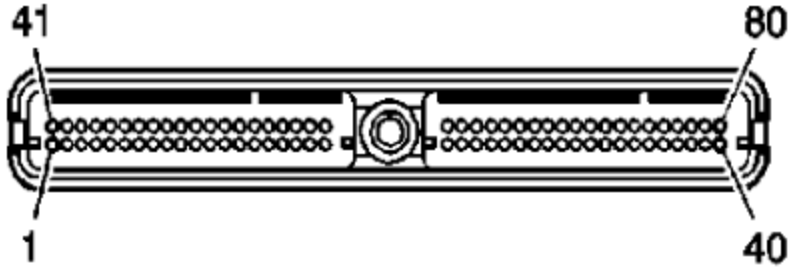
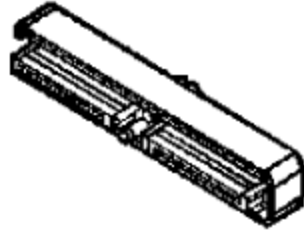
Pin	Wire Color	Circuit No.	Function
79	GY	587	Skip/Shift Solenoid Control
80	TN	2761	Low Reference

Powertrain Control Module (PCM) - C1 Part 4

Powertrain Control Module (PCM) - C2

Engine Control Module

Powertrain Control Module (PCM) – C2



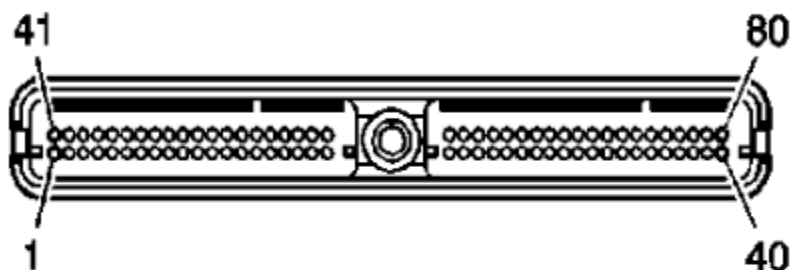
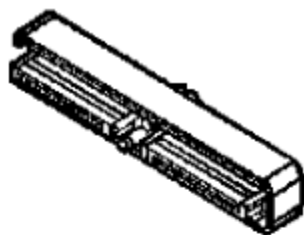
Connector Part Information

- 12191488
- 80-Way F Micro-Pack 100W Sealed (GN)

Pin	Wire Color	Circuit No.	Function
1	BK	750	Ground
2-4	—	—	Not Used
5	TN/BK	464	Delivered Torque Signal
6-8	—	—	Not Used
9	D-GN/WH	465	Fuel Pump Relay Control
10	WH	121	Engine Speed Signal
11-13	—	—	Not Used
14	OG/BK	380	A/C Refrigerant Pressure Sensor Signal
15	OG	225	Generator Turn On Signal
16-17	—	—	Not Used
18	PU/WH	1035	Starter Relay Coil Supply Voltage
19	—	—	Not Used
20	L-GN/BK	822	VSS Low Signal
21	PU/WH	821	VSS High Signal
22-24	—	—	Not Used
25	TN	472	IAT Sensor Signal
26	PU	2121	IC 1 Control
27	OG	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

Powertrain Control Module (PCM) - C2 Part 1

Powertrain Control Module (PCM) – C2



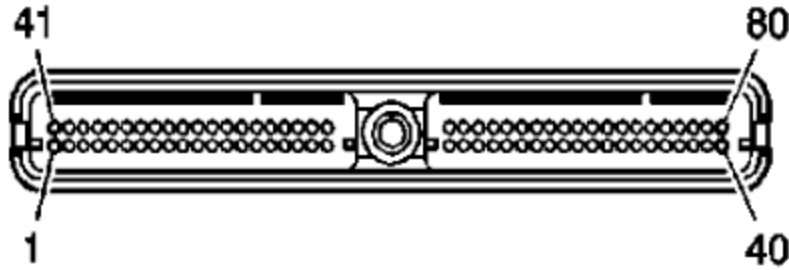
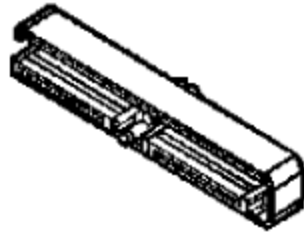
Connector Part Information

- 12191488
- 80-Way F Micro-Pack 100W Sealed (GN)

Pin	Wire Color	Circuit No.	Function
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	OG	631	12-Volt Reference
40	BK	750	Ground
41-42	—	—	Not Used
43	D-GN/WH	459	A/C Compressor Clutch Relay Control
44	L-GN	1652	Reverse Lockout Solenoid Control
45	WH	1310	EVAP Canister Vent Solenoid Control
46	BN/WH	419	MIL Control
47	WH	375	Skip Shift Indicator Control
48-49	—	—	Not Used
50	BN	818	Vehicle Speed Signal
51	YE/BK	1227	TFT Sensor Signal
52	BN	2391	HO2S Heater Low Control - Bank 1 Sensor 2
53	OG/WH	3223	HO2S Heater Low Control - Bank 2 Sensor 2
54	D-BU	1936	Fuel Level Sensor Signal - Primary
55-56	—	—	Not Used
57	TN	552	Low Reference
58	TN/WH	331	Oil Pressure Sensor Signal
59	YE	5	Crank Voltage
60	BN	2129	Low Reference

Powertrain Control Module (PCM) - C2 Part 2

Powertrain Control Module (PCM) – C2



Connector Part Information

- 12191488
- 80-Way F Micro-Pack 100W Sealed (GN)

Pin	Wire Color	Circuit No.	Function
61	BN/WH	2130	Low Reference
62-63	—	—	Not Used
64	D-GN	890	Fuel Tank Pressure Sensor Signal
65	BN	5069	MAIN Relay Control
66	PU/WH	2128	IC 8 Control
67	OG/WH	2122	IC 2 Control
68	D-GN	2125	IC 5 Control
69	L-BU	2123	IC 3 Control
70-71	—	—	Not Used
72	GY/WH	3113	HO2S Heater Low Control - Bank 1 Sensor 1
73	L-BU	1937	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	TN	5514	Low Reference

Powertrain Control Module (PCM) - C2 Part 3