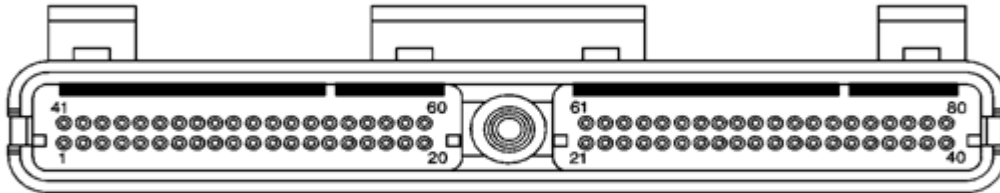




**1999-02 LS1 PCM pinouts (Camaro, Firebird) Corvette similar**

**PCM connector (BLUE)**

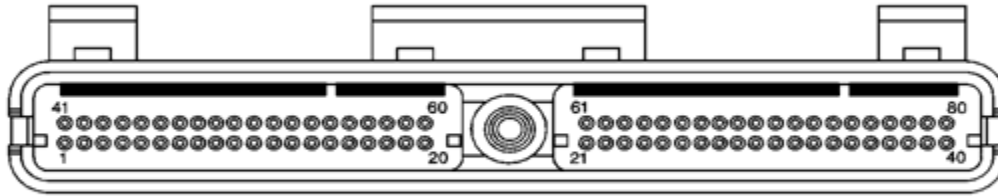


Pin	Wire Color	Circuit No.	Function
1	BLK	451	PCM Ground
2	LT GRN	1867	12 Volt Reference- CKP Pin "C"
3	PNK/BLK	1746	Fuel Injector 3 Control
4	LT GRN/BLK	1745	Fuel Injector 2 Control
5-7	--	--	Not Used
8	GRA	596	5 Volt Reference TPS Pin "A"
9-10	--	--	Not Used
11	LT BLU	1876	KS [2] Signal Rear Sensor Pin "B"
12	DK BLU/WHT	1869	CKP Sensor Signal Pin "A"
13-16	--	--	Not Used
17	DK BLU	1225	Transmission Fluid Pressure Switch Signal B Pin "R"
18	RED	1226	Transmission Fluid Pressure Switch Signal C Pin "P"
19	PNK	439	Ignition 1 Voltage

20	ORN	340	Battery Positive Voltage
21	YEL/BLK	1868	Low Reference CKP Pin "B"
22	--	--	Not Used
23	GRA	720	Low Reference Fuel Level Sensor (Factory)
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 2]
29	TAN/WHT	1653	HO2S Low Signal [Bank 1 Sensor 1]
30-31	--	--	Not Used
32	GRA	48	CPP Switch Signal (Manual Trans.)
33	PPL	420	TCC Brake Switch Signal (Auto. Trans)
34	ORN/BLK	434	Neutral Safety Switch Signal
35	--	--	Not Used
36	BLK	1744	Fuel Injector 1 Control
37	YEL/BLK	846	Fuel Injector 6 Control
38-39	--	--	Not Used
40	BLK	451	Ground
41	--	--	Not Used
42	DK GRN	335	Low Speed Cooling Fan Relay Control (Primary fan)
43	RED/BLK	877	Fuel Injector 7 Control
44	LT BLU/BLK	844	Fuel Injector 4 Control
45	GRA	474	5 Volt Reference (A/C Refrigerant Pressure Sensor) (Factory)
46	GRA	474	5 Volt Reference (Fuel Tank Pressure Sensor) (Factory)
47	--	--	Not Used
48	GRA	416	5 Volt Reference (MAP Sensor) Pin "C"
49-50	--	--	Not Used
51	DK BLU	496	KS [1] Signal Front sensor Pin "A"
52	--	--	Not Used
53	BLK	407	Low Reference (Transmission Temperature Sensor) Pin "M"
54	BLK	407	Low Reference (MAP Sensor Ground) Pin "A"
55	--	--	Not Used
56	--	--	Not Used

57	ORN	340	Battery Positive Voltage
58	DK GRN	1049	ECM/PCM/VCM Class 2 Serial Data
59	--	--	Not Used
60	BLK	452	Low Reference TPS Pin "B"
61	PNK/BLK	632	Low Reference (Camshaft Position Sensor) Pin "B"
62-64	--	--	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
71-72	--	--	Not Used
73	BRN/WHT	633	CMP Sensor Signal Pin "A"
74	YEL	410	ECT Sensor Signal Pin "B"
75	--	--	Not Used
76	BLK/WHT	845	Fuel Injector 5 Control
77	DK BLU/WHT	878	Fuel Injector 8 Control
78	--	--	Not Used
79	GRA or WHT	587 or 687	Skip Shift Solenoid Control (M/T) or 3-2 Shift Solenoid Control (A/T) Pin "S"
80	BLK	407	Low Reference ECT Pin "A"

**PCM connector (RED)**



Pin	Wire Color	Circuit No.	Function
1	BLK	451	Ground
2	BRN	418	TCC Solenoid - Output - PWM Pin "U"
3	--	--	Not Used
4	PNK/BLK	429	Air Injection Reaction Solenoid Relay - Coil - Control
5	--	--	Not Used
6	RED/BLK	1228	PC Solenoid Valve High Control (Sol.A) Pin "C"
7	--	--	Not Used
8	LT BLU/WHT	1229	PC Solenoid Valve Low Control (Sol.A) Pin "D"
9	DK GRN/WHT	465	Fuel Pump Relay Control [Primary]
10	WHT	121	Engine Speed Signal- Tachometer
11-12	--	--	Not Used
13	WHT	85	Cruise Control Engage Signal
14	RED/BLK	380	A/C Refrigerant Pressure Sensor Signal
15	RED	225	Generator Turn ON Signal
16	--	--	Not Used
17	DK GRN/WHT	762	A/C Request Signal
18	DK GRN	59	A/C Compressor Clutch Supply Voltage
19	--	--	Not Used
20	LT GRN/BLK	822	VSS Low Signal
21	PPL/WHT	821	VSS High Signal
22-23	--	--	Not Used

24	DK BLU	417	TPS Sensor Signal Pin "C"
25	TAN	472	IAT Sensor Signal Pin "B"
26	PPL	2121	IC 1 Control
27	RED	2127	IC 7 Control
28	LT BLU/WHT	2126	IC 6 Control
29	DK GRN/WHT	2124	IC 4 Control
30	DK BLU	229	Fuel Enable Control
31	YEL	492	MAF Sensor Signal Pin "A"
32	LT GRN	432	MAP Sensor Signal Pin "B"
33	DK BLU	473	High Speed Cooling Fan Relay Control
34	DK GRN/WHT	428	EVAP Canister Purge Solenoid Control
35	--	--	Not Used
36	BRN	436	AIR Pump Relay Control
37	DK GRN	83	Cruise Control Inhibit Signal
38	--	--	Not Used
39	RED	631	12 Volt Reference CMP Pin "C"
40	BLK	451	Ground
41	--	--	Not Used
42	TAN/BLK	422	TCC Solenoid Valve Control Pin "T"
43	DK GRN/WHT	459	A/C Clutch Relay Control
44	LT GRN	1652	Reverse Lock Out Solenoid Control
45	WHT	1310	EVAP Canister Vent Solenoid Control
46	BRN/WHT	419	MIL Control
47	YEL/BLK	1223	2 - 3 Shift Solenoid Valve Control Pin "B"
48	LT GRN	1222	1 - 2 Shift Solenoid Valve Control Pin "A"
49	--	--	Not Used
50	DK GRN/WHT	817	VSS Signal
51	YEL/BLK	1227	TFT Sensor Signal Pin "L"
52	--	--	Not Used
53	GRA/BLK	1687	Ignition Retard Signal EBCM only (Factory)
54	PPL	1589	Fuel Level Sensor Signal (Factory)
55-56	--	--	Not Used
57	PPL	719	Low Reference IAT Pin "A"
58-59	--	--	Not Used
60	BRN	2129	Low Reference Ignition Coils bank 1 (1-3-5-7)
61	BRN/WHT	2130	Low Reference Ignition Coils Bank 2 (2-4-6-8)

62	--	--	Not Used
63	PNK	1224	Transmission Fluid Pressure Switch Signal A Pin "N"
64	DK GRN	890	Fuel Tank Pressure Sensor Signal (Factory)
65	--	--	Not Used
66	PPL/WHT	2128	IC 8 Control
67	RED/WHT	2122	IC 2 Control
68	DK GRN	2125	IC 5 Control
69	LT BLU	2123	IC 3 Control
70-75	--	--	Not Used
76	LT GRN/WHT	1749	IAC Coil B High Control Pin "B"
77	LT GRN/BLK	444	IAC Coil B Low Control Pin "A"
78	LT BLU/BLK	1748	IAC Coil A Low Control Pin "C"
79	LT BLU/WHT	1747	IAC Coil A High Control Pin "D"
80	--	--	Not Used