

PCM Connector C1 (RED)				
Pin	Wire Color	Circuit No	Function	L31 4X
1	YEL	573	CKP Signal (4X / 24X signal)	BLU 12
2	BLK/WHT	451	PCM Ground	BLU 40
3	BLK	1744	Inj #1 Control	BLU 36
4	LT BLU/BLK	844	Inj #4 Control	BLU 43
5	YEL/BLK	846	Inj #6 Control	BLU 37
6	RED/BLK	877	Inj #7 Control	BLU 44
7	DK GRN/WHT	465	FP Relay Control (PCM Supplies 12v+)	RED 9
8				
9	GRY	435	EGR Solenoid Control (Can be used for Wideband O2)	BLU 55
10	DK BLU	473	Cooling Fan #2 & #3 Relay Control (PCM Supplies GROUND)	RED 33
11	DK GRN	335	Cooling Fan #1 Relay Control (PCM Supplies GROUND)	BLU 42
12	TAN/BLK	464	EBTCM TP Sensor Signal	
13	WHT	121	Engine Speed Output Signal (TACH)	RED 10
14	BRN	436	AIR Pump Relay Control	
15	DK/BLU	1493	Transmission Mode Lamp Control (F-Body ONLY)	
16				
17				
18	TAN/WHT	551	PCM Ground	RED 1
19	LT GRN/BLK	1745	Inj #2 Control	BLU 3
20	BLK/WHT	845	Inj #5 Control	BLU 76
21	PNK/BLK	1746	Inj #3 Control	BLU 4
22	DK BLU/WHT	878	Inj #8 Control	BLU 77
23	ORN/BLK	463	Traction Control Spark Retard Request	
24				
25	BLU	229	Fuel Enable Signal	
26				
27				
28				
29				
30				
31	PPL	401	VSS Signal Low	RED 20
32	YEL	400	VSS Signal High	RED 21

PCM Connector C2 (BLACK)				
Pin	Wire Color	Circuit No	Function	L31 4X
1	DK GRN/WHT	762	A/C Request Signal	RED 17
2	RED/BLK	453	Low Resolution Signal	
3	PNK/BLK	632	Distributor Reference Low Signal (4X / 1X Signal Ground)	BLU 21
4				
5	WHT	423	Ignition Control	RED 26
6	BLK	470	Sensor Ground (TPS & ECT)	BLU 60 & 80
7	LT GRN	1222	Transmission 1-2 Shift Sol Control	RED 48
8	DK GRN/WHT	817	VSS Output (4000 Pulse/Mile)	RED 50
9				
10				
11	BRN/WHT	1173	Low Oil Lamp Control (B-Body ONLY)	
12	YEL/BLK	1223	Transmission 2-3 Shift Sol Control	RED 47
13	WHT or GRY	687 or 587	Transmission 3-2 Shift Sol Control / Skip Shift Sol Control MANUAL	BLU 79
14	RED	631	Distributor Ignition Feed	
15	ORN	340	PCM Battery Positive Voltage	BLU 20
16	BLK	452	Sensor Ground (Fuel Level Sensor / MAP Sensor)	RED 57 & BLUE 54
17				
18	PNK/BLK		1994 B-Body ONLY - NOT NEEDED	
19	YEL	492	MAF Sensor Signal	RED 31
20	PPL/WHT	430	High Resolution Signal	
21	DK GRN	59	A/C Clutch Status	RED 18
22	TAN/WHT	585	TCC Fluid Temp Switch Signal (5.7L B-Body ONLY)	
23	PPL	1986	EVAP Vacuum Switch Signal (OBD2 ONLY)	RED 45
24				
25				
26	ORN/BLK	495	Power Steering Pressure Switch Signal (B-Body ONLY)	
27	BRN	1174	Engine Oil Level Sensor Signal (B-Body ONLY)	
28	GRY	474	5 Volt Reference TPS	BLU 8
29	GRY	416	5 Volt Reference MAP	BLU 48
30	PNK	439	PCM Ignition Positive Voltage	BLUE 75
31	ORN	340	PCM Battery Positive Voltage	BLU 57
32				

PCM Connector C3 (CLEAR)				
Pin	Wire Color	Circuit No	Function	L31 4X
1	LT BLU/WHT	1747	IAC Coil A High	RED 79
2	LT BLUE/BLK	1748	IAC Coil A Low	RED 78
3	TAN	1671	HO2S B2S2 Low 1996+	BLU 25
4	PPL	1670	HO2S B2S2 High 1996+	BLU 65
5	LT GRN/BLK	444	IAC Coil B Low	RED 77
6	LT GRN/WHT	1749	IAC Coil B High	RED 76
7	TAN	1667	HO2S B2S1 Low	BLU 26
8	PPL	1666	HO2S B2S1 High	BLU 66
9				
10				
11	LT BLU	832	Traction Control System Active Signal (F-Body ONLY)	
12				
13	LT BLU	553	Performance Mode Switch Signal (F-Body ONLY)	
14	LT BLU/BLK or PPL	583 or 420	Brake Switch Signal (F/B-Body) 12v+ When brakes are NOT pressed.	BLU 33
15	ORN/BLK	434	PNP Switch	BLU 34
16	RED/BLK	1228	Transmission Pressure Control Sol	RED 6
17	TAN/WHT	1669	HO2S B1S2 Low 1996+	BLU 28
18	PPL/WHT	1668	HO2S B1S2 High 1996+	BLU 68
19	TAN/WHT	1653	HO2S B1S1 Low	BLU 29
20	PPL/WHT	1665	HO2S B1S1 High	BLU 69
21	TAN	472	IAT Sensor Signal	RED 25
22	DK BLU	417	TP Sensor Signal	RED 24
23	LT GRN	432	MAP Sensor Signal	RED 32
24				
25	YEL	410	ECT Sensor Signal	BLU 74
26				
27				
28	PNK	1224	Transmission Fluid Pressure Switch Signal A	RED 63
29	DK BLU	1225	Transmission Fluid Pressure Switch Signal B	BLU 17
30	RED	1226	Transmission Fluid Pressure Switch Signal C	BLU 18
31				
32	BLK/WHT	451	PCM Ground	BLUE 1

PCM Connector C4 (BLUE)				
Pin	Wire Color	Circuit No	Function	L31 4X
1	TAN/WHT	551	PCM Ground	RED 40
2	LT BLU/WHT	1229	Transmission Pressure Control Sol Low	RED 8
3	PNK	439	PCM Ignition Postive Voltage	BLU 19
4				
5				
6	BRN or LT GRN	418 or 1652	Transmission TCC PWM Sol Control / Reverse Inhibit Sol Control Manual	RED 2 / 44
7	PPL	1807	Serial Data (Class 2) 1996+ (OBD2 Port Pin 2)	BLU 58
8	DK GRN/WHT	459	A/C Clutch Relay Control	RED 43
9	BRN/WHT	419	MIL Control (PCM Supplies GROUND for light)	RED 46
10	DK GRN/WHT	428	EVAP Canister Purge Sol Control	RED 34
11	TAN/BLK	422	Transmission TCC Sol Control	RED 42
12	RED/BLK	380	A/C Refrigerant Pressure Sensor Signal (Or can be used for Wideband O2)	RED 14
13				
14				
15	WHT	375	Skip Shift Lamp Control (Manual)	
16	PNK	1439	Change Oil Lamp Control (B-Body ONLY)	
17				
18				
19				
20	WHT/BLK	448	Output/Field Service Enable (Diag Port)	
21	LT BLU	1876	Knock Sensor Signal Left (1996+ B-Body ONLY)	
22	DK BLU	496	Knock Sensor Signal F-Body, 1994-95 B-Body (1996+ Right B-Body)	BLU 51
23				
24	DK BLU	732	A/C Evaporator Temp Sensor Signal (F-Body ONLY)	
25				
26	DK GRN/WHT	357	Engine Oil Temp Sensor Signal (Corvette)	
27				
28	YEL/BLK	1227	Transmission Fluid Temp Sensor Signal	RED 51
29	TAN	800	Serial Data (UART) (Some B-Body) (Diag Port)	
30	TAN	800	Serial Data (UART) (Most F-Body & B-Body) (Diag Port)	
31				
32				

Pin	Wire Color	Circuit No.	C1 Connector Function	LT1
1	BLK/WHT	451	PCM Ground	CLEAR 32
2	LT GRN	1867	Crankshaft Position Sensor B+ Supply	* (PNK wire on CKP sensor)
3	PNK/BLK	1746	Injector 3 Control	RED 19
4	LT GRN/BLK	1745	Injector 2 Control	RED 21
5	--	--	Not Used	
6	--	--	Not Used	
7	--	--	Not Used	
8	GRY	--	TPS 5V Ref	BLACK 28
9	--	--	Not Used	
10	--	--	Not Used	
11	LT BLU	1876	Knock Sensor Signal Rear	
12	DK BLU/WHT	1869	Crankshaft Position Sensor Signal	RED 1
13	ORN/BLK	463	Requested Torque Signal (NW7)	
14	ORN/BLK	1061	UART Serial Data (drive by wire only)	
15	DK BLU/WHT	774	UART Serial Data (drive by wire only)	
16	--	--	Not Used	
17	DK BLU	1225	Transmission Fluid Pressure Switch B	CLEAR 29
18	RED	1226	Transmission Fluid Pressure Switch C	CLEAR 30
19	PNK	439	PCM Ignition Supply	BLUE 3
20	ORN	440	PCM Battery Supply	BLACK 15
21	YEL/BLK	1868	Crankshaft Position Sensor Ground	BLACK 3
22	--	--	Not Used	
23	PPL	719	Sensor Ground EGR	WIDEBAND O2 Sensor -
24	--	--	Not Used	
25	TAN	1671	HO2S Signal Low B2S2 (w/Case Ground O2 Sensors)	CLEAR 3
26	TAN	1667	HO2S Signal Low B2S1 (w/Case Ground O2 Sensors)	CLEAR 7
27	--	--	Not Used	
28	TAN/WHT	1669	HO2S Signal Low B1S2 (w/Case Ground O2 Sensors)	CLEAR 17
29	TAN/WHT	1653	HO2S Signal Low B1S1 (w/Case Ground O2 Sensors)	CLEAR 19
30	LT GRN	1478	Engine Coolant Level Switch	
31	--	--	Not Used	
32	BLK/WHT	771	PRND A Input	
33	PPL	420	TCC Brake Switch	CLEAR 14
34	WHT	776	PRND P Input	CLEAR 15
35	GRA	48	Clutch Switch Signal (manual trans)	
36	BLK	1744	Injector 1 Control	RED 3
37	YEL/BLK	846	Injector 6 Control	RED 5
38	PNK/WHT	1101	Damping Lift/Drive Signal	
39	--	--	Not Used	
40	BLK/WHT	451	PCM Ground	RED 2
41	BLK	407	Sensor Ground (Trans) w/Case grounded o2 Sensors	
42	DK GRN	--	Fan 1 Relay Control	RED 11
43	RED/BLK	877	Injector 7 Control	RED 4
44	LT BLU/BLK	844	Injector 4 Control	RED 6
45	GRA	474	Fuel Tank Pressure Sensor 5V Reference	
46	GRA	416	Tank Pressure Sensor 5V Reference	
47	GRA	597	5V Reference	
48	GRA	596	MAP Sensor 5V Reference	BLACK 29
49	--	--	Not Used	
50	--	--	Not Used	
51	DK BLU	496	Knock Sensor Signal Front	BLUE 22
52	--	--	Not Used	
53	BLK	470	Fuel Tank Pressure Sensor Ground	
54	BLK	452	TP Sensor Ground	BLACK 16 (and C2 red 57)
55	BRN	1456	EGR Pintle Position Sensor Signal	WIDEBAND O2 Sensor +
56	WHT	--	Fuel Temp/Composition Signal (L59 Flex Fuel)	
57	ORN	440	PCM Battery Supply	BLACK 31
58	DK GRN	1049	Serial Data to OBD2 Port	BLUE 7
59	YEL	710	Serial Data to BCM	
60	ORN/BLK	469	MAP Sensor Ground	BLACK 6 (and this 80)
61	PNK/BLK	632	CMP Sensor Ground (1x signal)	
62	--	--	Not Used	
63	GRY	720	Sensor Ground (ETC) w/case grounded o2 sensors	
64	--	--	Not Used	
65	PPL	1670	HO2S Signal High Bank 2 Sensor 2	CLEAR 4
66	PPL	1666	HO2S Signal High Bank 2 Sensor 1	CLEAR 8
67	--	--	Not Used	
68	PPL/WHT	1668	HO2S Signal High Bank 1 Sensor 2	CLEAR 18
69	PPL/WHT	1665	HO2S Signal High Bank 1 Sensor 1	CLEAR 20
70	BRN	1174	Low Oil Level Switch	
71	--	--	Not Used	
72	YEL	772	PRND B Input	
73	BRN/WHT	633	Camshaft Position (CMP) Sensor Signal (1X Signal)	
74	YEL	410	Engine Coolant Temperature (ECT) Sensor Signal	CLEAR 25
75	PNK	1020	PCM Ignition Supply	BLACK 30
76	BLK/WHT	845	Injector 5 Control	RED 20
77	DK BLU/WHT	878	Injector 8 Control	RED 22
78	--	--	Not Used	
79	WHT	687	3-2 Shift Solenoid Control / Skip Shift Solenoid Manual	BLACK 13
80	BLK	510	Low Ref (Engine Coolant Temp)	BLACK 6 (and this 60)

*On 96-97 LT1 CKP is already B+ supplied by a B+ fuse. No need to do anything.

Pin	Wire Color	Circuit No.	C2 Connector Function	LT1
1	BLK/WHT	451	PCM Ground	RED 18
2	BRN	418	TCC Control Solenoid	BLUE 6
3	TAN	1465	Fuel Pump Relay Control - Secondary	
4	--	--	Not Used	
5	TAN/BLK	464	Deliverd Torque Signal	
6	RED/BLK	1228	Transmission Fluid Pressure Control Solenoid High	CLEAR 16
7	RED	1676	EGR Solenoid Supply	
8	LT BLU/WHT	1229	Transmission Fluid Pressure Control Solenoid Low	BLUE 2
9	DK GRN/WHT	465	Fuel Pump Relay Control	RED 7
10	WHT	121	Engine Speed (Tach) Output Signal	RED 13
11	DK BLU	604	A/C High Pressure Recirculation Switch	
12	--	--	Not Used	
13	LT BLU/BLK	396	Cruise Control Engage Signal	
14	--	--	A/C Pressure Signal	BLUE 12 / WIDEBAND O2
15	BRN	25	Generator L Terminal (Alternator turn on signal)	
16	GRA/BLK	1694	4 Wheel Drive Switch Signal Low	
17	DK GRN/WHT	762	A/C Request Signal	BLACK 1
18	--	--	Not Used	BLACK 21
19	BLK/WHT	1695	4 Wheel Drive Front Axle Switch	
20	LT GRN/BLK	822	Vehicle Speed Sensor (VSS) Reference Low	RED 31
21	PPL/WHT	821	Vehicle Speed Sensor (VSS) Signal	RED 32
22	RED/BLK	1230	Vehicle Speed Sensor (VSS) Signal (4L80E Only)	
23	DK BLU/WHT	1231	Vehicle Speed Sensor (VSS) Reference Low (4L80E Only)	
24	DK BLU	417	TP Sensor Signal	CLEAR 22
25	TAN	472	IAT Sensor Signal	CLEAR 21
26	PPL	2121	Ignition Control 1	BLACK 5
27	RED	2127	Ignition Control 7	
28	LT BLU/WHT	2126	Ignition Control 6	
29	DK GRN/WHT	2124	Ignition Control 4	
30	--	--	Not Used	
31	YEL	492	MAF Sensor Signal	BLACK 19
32	LT GRN	432	MAP Sensor Signal	CLEAR 23
33	DK GRN	1614	Fan 2 Relay Control	RED 10
34	DK GRN/WHT	428	EVAP Canister Purge Solenoid Control	BLUE 10
35	--	--	Charge Indicator Control	
36	BRN	436	AIR Pump Relay Control (w/NC1)	
37	--	--	Not Used	
38	--	--	FUEL GAUGE SIGNAL OUTPUT (Only on factory fuel level gauge 96-99 trucks)	
39	RED	631	CMP Sensor B+ Supply (1X Signal)	
40	BLK/WHT	451	PCM Ground	BLUE 1
41	WHT	257	EGR Solenoid Ground	
42	TAN/BLK	422	TCC Enable Circuit (4L60-E only)	BLUE 11
43	DK GRN/WHT	459	A/C Clutch Relay Control	BLUE 8
44	--	--	Reverse Inhibit Sol Control (Manual)	BLUE 6
45	WHT	1310	EVAP Canister Vent Valve Control	BLACK 23
46	BRN/WHT	419	Malfunction Indicator Lamp (MIL) Control	BLUE 9
47	YEL/BLK	1223	Transmission Shift Solenoid B	BLACK 12
48	LT GRN	1222	Transmission Shift Solenoid A	BLACK 7
49	YEL/BLK	1827	Vehicle Speed Output Circuit 128K	
50	DK GRN/WHT	817	Vehicle Speed Output Circuit 4K	BLACK 8
51	YEL/BLK	1227	Transmission Temperature Sensor Signal	BLUE 28
52	GRY	23	Generator Field Duty Cycle Signal	
53	--	--	Not Used	
54	PPL	1589	Fuel Level Sensor Signal	
55	DK GRN	603	A/C Low Pressure Switch Signal	
56	--	--	Not Used	
57	BLK	552	IAT Sensor Ground	BLACK 16 (and C1 blue 54)
58	--	--	Not Used	
59	--	--	Not Used	
60	BRN	2129	Ignition Control Reference Low Bank 1	
61	BRN/WHT	2130	Ignition Control Reference Low Bank 2	
62	GRA	773	PRND C	
63	PNK	1224	Transmission Fluid Pressure Switch A	CLEAR 28
64	DK GRN	890	Fuel Tank Pressure Sensor Signal	
65	--	--	Not Used	
66	PPL/WHT	2128	Ignition Control 8	
67	RED/WHT	2122	Ignition Control 2	
68	DK GRN	2125	Ignition Control 5	
69	LT BLU	2123	Ignition Control 3	
70	--	--	Not Used	
71	--	--	Not Used -	
72	--	--	Not Used	
73	DK BLU	1936	Fuel Level Sensor Signal - Secondary	
74	LT GRN/WHT	3213	HO2S Heater Control (w/isolated grounded sensors) (2001-02 6.0L Only)	
75	--	--	Not Used	
76	LT GRN/WHT	1749	IAC Coil B High	CLEAR 6
77	LT GRN/BLK	444	IAC Coil B Low	CLEAR 5
78	LT BLU/BLK	1748	IAC Coil A Low	CLEAR 2
79	LT BLU/WHT	1747	IAC Coil A High	CLEAR 1
80	LT GRN	3212	HO2S Heater Low Reference (w/isolated grounded sensors) (2001-02 6.0L Only)	