

99-02 4.8/5.3/6.0L Connector C1 BLUE

Pin	Wire Color	Circuit No.	Function
1	BLK/WHT	451	PCM Ground
2	LT GRN	1867	Crankshaft Position Sensor B+ Supply
3	PNK/BLK	1746	Injector 3 Control
4	LT GRN/BLK	1745	Injector 2 Control
5	--	--	Not Used
6	--	--	Not Used
7	--	--	Not Used
8	--	--	Not Used
9	--	--	Not Used
10	--	--	Not Used
11	LT BLU	1876	Knock Sensor Signal Rear
12	DK BLU/WHT	1869	Crankshaft Position Sensor Signal
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 (A/T)
18	RED	1226	Transmission Fluid Pressure Switch C (A/T)
19	PNK	439	PCM Ignition Supply
20	ORN	440	PCM Battery Supply
21	YEL/BLK	1868	Crankshaft Position Sensor Ground
22	--	--	Not Used
23	PPL	719	Sensor Ground EGR (8.1L BLK - 470 Ground to C2 Connector)
24	--	--	Not Used
25	TAN	1671	HO2S Signal Low Bank 2 Sensor 2
26	TAN	1667	HO2S Signal Low Bank 2 Sensor 1
27	--	--	Not Used
28	TAN/WHT	1669	HO2S Signal Low Bank 1 Sensor 2
29	TAN/WHT	1653	HO2S Signal Low Bank 1 Sensor 1
30	LT GRN	1478	Engine Coolant Level Switch
31	--	--	Not Used
32	BLK/WHT	771	PRND A Input (may need grounded as well for CKP relearn)
33	PPL	420	TCC Brake Switch
34	WHT	776	PRND P Input - PCM can be programmed to accept a SINGLE WIRE park/neutral signal on this PIN, if no trans mounted range sensor is present
35	GRA	48	Clutch Switch Signal
36	BLK	1744	Injector 1 Control
37	YEL/BLK	846	Injector 6 Control
38	PNK/WHT	1101	Damping Lift/Drive Signal
39	--	--	Not Used
40	BLK/WHT	451	PCM Ground

41	BLK	407	Sensor Ground (TRANS & CTS) with isolate ground o2 (8.1L PPL - 719 EGR Low Reference)
42	--	--	Low Speed Cooling Fan Relay Control
43	RED/BLK	877	Injector 7 Control
44	LT BLU/BLK	844	Injector 4 Control
45	GRA	474	Fuel Tank Pressure Sensor 5V Reference
46	GRA	416	TP Sensor 5V Reference (8.1L Fuel Tank Pressure Sensor)
47	GRA	597	MAP Sensor 5V Reference (8.1L EGR 5V Reference)
48	GRA	596	EGR Pintle Position Sensor 5V Reference (8.1L MAP)
49	--	--	Not Used
50	--	--	Not Used
51	DK BLU	496	Knock Sensor Signal Front
52	--	--	Not Used
53	BLK	470	Fuel Tank Pressure Sensor Ground
54	BLK	452	TP Sensor Ground (8.1L MAP)
55	BRN	1456	EGR Pintle Position Sensor Signal
56	WHT	1579	Fuel Temp/Composition Signal (L59 Flex Fuel)
57	ORN	440	PCM Battery Supply
58	DK GRN	1049	Serial Data to OBD2 Port
59	YEL	710	Serial Data to BCM
60	ORN/BLK	469	MAP Sensor Ground
61	PNK/BLK	632	CMP Sensor Ground
62	--	--	Not Used
63	GRA or TAN	720	GRA - Engine Coolant Temperature (ECT) Sensor Ground TAN - O2 Sensor Low Ref Ground
64	--	--	Not Used
65	PPL	1670	HO2S Signal High Bank 2 Sensor 2
66	PPL	1666	HO2S Signal High Bank 2 Sensor 1
67	--	--	Not Used
68	PPL/WHT	1668	HO2S Signal High Bank 1 Sensor 2
69	PPL/WHT	1665	HO2S Signal High Bank 1 Sensor 1
70	BRN	1174	Low Oil Level Switch
71	--	--	PERFORMANCE MODE SWITCH
72	YEL	772	PRND B Input
73	BRN/WHT	633	Camshaft Position (CMP) Sensor Signal
74	YEL	410	Engine Coolant Temperature (ECT) Sensor Signal
75	PNK	1020	PCM Ignition Supply
76	BLK/WHT	845	Injector 5 Control
77	DK BLU/WHT	878	Injector 8 Control
78	--	--	Not Used
79	WHT	687	3-2 Shift Solenoid Control
80	ORN/BLK	510	Fuel Level Sensor Ground

99-02 4.8/5.3/6.0L Connector C2 **RED**

Pin	Wire Color	Circuit No.	Function
1	BLK/WHT	451	PCM Ground
2	BRN	418	TCC Control Solenoid
3	TAN	1465	Fuel Pump Relay Control - Secondary
4	--	--	Not Used
5	TAN/BLK	464	Delivered Torque Signal
6	RED/BLK	1228	Transmission Fluid Pressure Control Solenoid High
7	RED	1676	EGR Solenoid Supply
8	LT BLU/WHT	1229	Transmission Fluid Pressure Control Solenoid Low
9	DK GRN/WHT	465	Fuel Pump Relay Control
10	WHT	121	Engine Speed (Tach) Output Signal
11	DK BLU	604	Secondary A/C High Pressure Switch
12	--	--	Not Used
13	LT BLU/BLK	396	Cruise Control Engage Signal
14	--	--	Not Used
15	BRN	25	Generator L Terminal
16	GRA/BLK	1694	4 Wheel Drive Switch Signal Low
17	DK GRN/WHT	762	A/C Request Signal
18	--	--	Not Used
19	BLK/WHT	1695	4 Wheel Drive Front Axle Switch
20	LT GRN/BLK	822	Vehicle Speed Sensor (VSS) Reference Low
21	PPL/WHT	821	Vehicle Speed Sensor (VSS) Signal
22	RED/BLK	1230	Vehicle Speed Sensor (VSS) Signal (6.0L Only)
23	DK BLU/WHT	1231	Vehicle Speed Sensor (VSS) Reference Low (6.0L Only)
24	DK BLU	417	TP Sensor Signal
25	TAN	472	IAT Sensor Signal
26	PPL	2121	Ignition Control 1
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
32	LT GRN	432	MAP Sensor Signal
33	DK GRN	1614	HVAC Recirculation Door Control (or use this pin for FAN 2 Control)
34	DK GRN/WHT	428	EVAP Canister Purge Solenoid Control
35	--	--	Not Used
36	BRN	436	AIR Pump Relay Control (w/NC1)
37	--	--	Not Used
38	--	--	(express fuel level sensor PWM output)
39	RED	631	CMP Sensor B+ Supply
40	BLK/WHT	451	PCM Ground

41	WHT	257	EGR Solenoid Ground
42	TAN/BLK	422	TCC Enable Circuit (4L60-E only)
43	DK GRN/WHT	459	A/C Clutch Relay Control
44	--	--	Not Used
45	WHT	1310	EVAP Canister Vent Valve Control
46	BRN/WHT	419	Malfunction Indicator Lamp (MIL) Control
47	YEL/BLK	1223	Transmission Shift Solenoid B
48	LT GRN	1222	Transmission Shift Solenoid A
49	YEL/BLK	1827	Vehicle Speed Output Circuit 128K
50	DK GRN/WHT	817	Vehicle Speed Output Circuit 4K
51	YEL/BLK	1227	Transmission Temperature Sensor Signal
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
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 (A/T)
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 o2 sensors) (2001-02 6.0L Only)
75	--	--	Not Used
76	LT GRN/WHT	1749	IAC Coil B High - IAC BIN B
77	LT GRN/BLK	444	IAC Coil B Low - IAC PIN A
78	LT BLU/BLK	1748	AC Coil A Low - IAC PIN C
79	LT BLU/WHT	1747	IAC Coil A High - IAC PIN D
80	LT GRN	3212	HO2S Heater Low Reference (w/isolated grounded sensors (2001-02 6.0L Only)