

Truck 2003-07 5.3L Connector C1 BLUE				Truck 2003-07 5.3L Connector C1 BLUE			
Pin	Wire Color	Circuit No.	Function	Pin	Wire Color	Circuit No.	Function
1	BLK/WHT	451	Ground	41	--	--	Not Used
2	LT GRN	1867	12 Volt Reference	42	--	--	Low Speed Cooling Fan Relay Control
3	PNK/BLK	1746	Fuel Injector 3 Control	43	RED/BLK	877	Fuel Injector 7 Control
4	LT GRN/BLK	1745	Fuel Injector 2 Control	44	BLU/BLK	844	Fuel Injector 4 Control
5	--	--	Not Used	45	GRY	2700	5 Volt Reference (A/C)
6	--	--	Not Used	46	GRY	474	5 Volt Reference (EVA)
7	GRY	2705	5 Volt Reference (OIL PRESSURE)	47	--	--	Not Used
8	--	--	add pin for TPS 5 Volt Ref DBC - TPS Pin 1 (A)	48	GRY	597	5 Volt Reference (MAP)
9	--	--	Not Used	49	--	--	Not Used
10	--	--	Not Used	50	--	--	Not Used
11	LT BLU	1876	Knock Sensor 2 Signal	51	DK BLU	496	Knock Sensor 1 Signal
12	BLU/WHT	1869	CKP Sensor Signal	52	--	--	Not Used
13	ORN/BLK	463	Requested Torque Signal (NW7)	53	GRY	720	Low Reference (TRANS)
14	ORN/BLK	1061	UART Serial Data (drive by wire only)	54	ORN/BLK	469	Low Reference (MAP)
15	DK BLU/WHT	774	UART Serial Data (drive by wire only)	55	--	--	Not Used
16	--	--	Not Used	56	WHT	1579	Fuel Temperature/Composition Signal (L59 Flex Fuel)
17	DK BLU	1225	Transmission Fluid Pressure Switch Signal B (A/T)	57	ORN	440	Battery Positive Voltage
18	RED	1226	Transmission Fluid Pressure Switch Signal C (A/T)	58	DK GRN	1049	Class 2 Serial Data
19	PNK	439	Ignition 1 Voltage	59	YEL	710	Class 2 Serial Data
20	ORN	440	Battery Positive Voltage	60	--	--	add pin for TPS Low Ref DBC - TPS Pin 2 (B)
21	YEL/BLK	1868	Crankshaft Position Sensor Ground	61	PNK/BLK	632	Low Reference (CMP)
22	--	--	Not Used	62	--	--	Not Used
23	BLK	470	Low Reference (to C2 Underhood block)	63	BLK	2755	Low Reference (OIL PRESSURE SENSOR)
24	BLK/WHT	451	Ground	64	BLK/WHT	451	PCM Ground
25	TAN	1671	HO2S Low Signal - Bank 2 Sensor 2	65	PPL	1670	HO2S High Signal - Bank 2 Sensor 2
26	TAN	1667	HO2S Low Signal - Bank 2 Sensor 1	66	PPL	1666	HO2S High Signal - Bank 2 Sensor 1
27	BLK/WHT	451	Ground	67	BLK/WHT	451	PCM Ground
28	TAN/WHT	1669	HO2S Low Signal - Bank 1 Sensor 2	68	PPL/WHT	1668	HO2S High Signal - Bank 1 Sensor 2
29	TAN	1664	HO2S Low Signal - Bank 1 Sensor 1	69	PPL/WHT	1665	HO2S High Signal - Bank 1 Sensor 1
30	LT GRN	1478	Coolant Level Switch Signal	70	BRN	1174	Oil Level Switch Signal
31	--	--	Not Used	71	--	--	PERFORMANCE MODE SWITCH
32	BLK/WHT	771	Transmission Range Switch Signal A (A/T)	72	YEL	772	Transmission Range Switch Signal B (A/T)
33	PPL	420	TCC Brake Switch/Cruise Control Release Switch Signal	73	BRN/WH T	633	CMP Sensor Signal
34	WHT	776	Transmission Range Switch Signal P (A/T)	74	YEL	410	ECT Sensor Signal
35	GRY	48	CPP Switch Signal (M/T)	75	PNK	1020	Off/Run/Crank Voltage
36	BLK	1744	Fuel Injector 1 Control	76	BLK/WHT	845	Fuel Injector 5 Control
37	YEL/BLK	846	Fuel Injector 6 Control	77	DK BLU/WHT	878	Fuel Injector 8 Control
38	PNK/WHT	1101	Damping Lift/Dive Signal	78	--	--	Not Used
39	YEL/BLK	625	Starter Enable Relay Control	79	WHT	687	3-2 Shift Solenoid Valve Control (M30/M32)
40	BLK/WHT	451	Ground	80	BLK	407	Low Reference (ECT)

Truck 2003-2007 5.3L Connector C2 GREEN				Truck 2003-2007 5.3L Connector C2 GREEN			
Pin	Wire Color	Circuit No.	Function	Pin	Wire Color	Circuit No.	Function
1	BLK/WHT	451	PCM Ground	41	--	--	Not Used
2	BRN	418	TCC PWM Solenoid Valve Control (A/T)	42	TAN/BLK	422	TCC Solenoid Valve Control (M30/M32)
3	TAN	1465	Fuel Pump Relay Control - Secondary (Dual Tanks)	43	DK GRN/WH T	459	A/C Compressor Clutch Relay Control (A/C)
4	--	--	Not Used	44	--	--	Not Used
5	TAN/BLK	464	Delivered Torque Signal (NW7)	45	WHT	1310	EVAP Canister Vent Solenoid Control (EVA)
6	RED/BLK	1228	PC Solenoid Valve High Control (A/T)	46	BRN/WH T	419	MIL Control
7	--	--	Not Used	47	YEL/BLK	1223	2-3 Shift Solenoid Valve Control (A/T)
8	LT	1229	PC Solenoid Valve Low Control (A/T)	48	LT GRN	1222	1-2 Shift Solenoid Valve Control (A/T)
9	DK GRN/WHT	465	Fuel Pump Relay Control - Primary	49	YEL/BLK	1827	Vehicle Speed Signal
10	WHT	121	Engine Speed Signal	50	DK GRN/WH T	817	Vehicle Speed Signal
11	--	--	Not Used	51	YEL/BLK	1227	TFT Sensor Signal (A/T)
12	--	--	Not Used	52	BRN	2391	HO2S Heater Low Control Bank 1 Sensor 2
13	--	--	Not Used	53	RED/WH T	3223	HO2S Heater Low Control Bank 2 Sensor 2
14	RED/BLK	380	A/C Refrigerant Pressure Sensor Signal (A/C)	54	PPL	1589	Fuel Level Sensor Signal - Primary
15	BRN	25	Charge Indicator Control (Alt "turn on")	55	--	--	Not Used
16	GRY/BLK	1694	4WD Low Signal	56	--	--	Not Used
17	--	--	Not Used	57	BLK	552	Low Reference (IAT)
18	DK GRN	1433	Clutch Start Switch Signal (M/T)	58	TAN/WHT	332	Oil Pressure Sensor Signal
19	BLK/WHT	1695	Axle Switch Signal (NP2)	59	PPL	806	Crank Voltage
20	LT	822	VSS Low Signal	60	BRN	2129	Ignition Control Reference Low Bank 1
21	GRN/BLK	821	VSS High Signal	61	BRN/WH T	2130	Ignition Control Reference Low Bank 2
22	PPL/WHT	821	AT ISS High Signal (4WD w/MT1)	62	GRY	773	Transmission Range Switch Signal C (A/T)
23	RED/BLK	1230	AT ISS Low Signal (4WD w/MT1)	63	PNK	1224	Transmission Fluid Pressure Switch Signal A (A/T)
24	DK	1231	add pin for TPS Signal DBC - TPS Pin 3 (C)	64	DK GRN	890	Fuel Tank Pressure Sensor Signal (EVA)
25	--	--	IAT Sensor Signal	65	--	--	Not Used
26	TAN	472	IC 1 Control	66	PPL/WHT	2128	IC 8 Control
27	PPL	2121	IC 7 Control	67	RED/WH T	2122	IC 2 Control
28	RED	2127	IC 6 Control	68	DK GRN	2125	IC 5 Control
29	LT	2126	IC 4 Control	69	LT BLU	2123	IC 3 Control
30	DK	2124	IC 3 Control	70	--	--	Not Used
31	GRN/WHT	2124	IC 2 Control	71	--	--	Not Used
32	--	--	MAF Sensor Signal	72	BLK/WHT	3113	HO2S Heater Low Control Bank 1 Sensor 1
33	LT GRN	432	MAP Sensor Signal	73	DK BLU	1936	Fuel Level Sensor Signal - Secondary
34	--	--	Not Used (can be used for FAN 2 control)	74	LT GRN	3212	HO2S Heater Low Control Bank 2 Sensor 1
35	DK	428	EVAP Canister Purge Solenoid Control	75	GRY	23	Generator Field Duty Cycle Signal
36	GRN/WHT	428	Not Used	76	--	--	add pin for IAC Valve DBC - IAC Pin B
37	--	--	Not Used	77	--	--	add pin for IAC Valve DBC - IAC Pin A
38	--	--	Not Used	78	--	--	add pin for IAC Valve DBC - IAC Pin C
39	--	--	Not Used	79	--	--	add pin for IAC Valve DBC - IAC Pin D
40	RED	631	12 Volt Reference (CMP)	80	BLK	2751	Low Reference (A/C)
40	BLK/WHT	451	PCM Ground				