

1999-2002 TRUCK Connector C1 BLUE

Pin	Wire Color	Circuit No.	Function	Pin	Wire Color	Circuit No.	Function
1	BLK/WHT	451	PCM Ground	41	BLK	407	Sensor Ground (TRANS & CTS) with isolate ground o2 (8.1L PPL - 719 EGR Low Reference)
2	LT GRN	1867	Crankshaft Position Sensor B+ Supply	42	--	--	Low Speed Cooling Fan Relay Control
3	PNK/BLK	1746	Injector 3 Control	43	RED/BLK	877	Injector 7 Control
4	LT GRN/BLK	1745	Injector 2 Control	44	BLU/BLK	844	Injector 4 Control
5	--	--	Not Used	45	GRA	474	Fuel Tank Pressure Sensor 5V Reference
6	--	--	Not Used	46	GRA	416	TP Sensor 5V Reference (8.1L Fuel Tank Pressure Sensor)
7	--	--	Not Used	47	GRA	597	MAP Sensor 5V Reference (8.1L EGR 5V Reference)
8	--	--	Not Used	48	GRA	596	EGR Pintle Position Sensor 5V Reference (8.1L MAP)
9	--	--	Not Used	49	--	--	Not Used
10	--	--	Not Used	50	--	--	Not Used
11	LT BLU	1876	Knock Sensor Signal Rear	51	DK BLU	496	Knock Sensor Signal Front
12	BLU/WHT	1869	Crankshaft Position Sensor Signal	52	--	--	Not Used
13	ORN/BLK	463	Requested Torque Signal (NW7)	53	BLK	470	Fuel Tank Pressure Sensor Ground
14	ORN/BLK	1061	UART Serial Data (drive by wire only)	54	BLK	452	TP Sensor Ground (8.1L MAP)
15	BLU/WHT	774	UART Serial Data (drive by wire only)	55	BRN	1456	EGR Pintle Position Sensor Signal
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	PCM Battery Supply
18	RED	1226	Transmission Fluid Pressure Switch Signal C (A/T)	58	DK GRN	1049	Serial Data to OBD2 Port
19	PNK	439	PCM Ignition Supply	59	YEL	710	Serial Data to BCM
20	ORN	440	PCM Battery Supply	60	ORN/BLK	469	MAP Sensor Ground
21	YEL/BLK	1868	Crankshaft Position Sensor Ground	61	PNK/BLK	632	CMP Sensor Ground
22	--	--	Not Used	62	--	--	Not Used
23	PPL	719	Sensor Ground EGR (8.1L BLK - 470 Ground to C2 Connector)	63	GRA or TAN	720	GRA - Engine Coolant Temperature (ECT) Sensor Ground
24	--	--	Not Used	64	--	--	TAN - O2 Sensor Low Ref Ground
25	TAN	1671	HO2S Signal Low Bank 2 Sensor 2	65	PPL	1670	HO2S Signal High Bank 2 Sensor 2
26	TAN	1667	HO2S Signal Low Bank 2 Sensor 1	66	PPL	1666	HO2S Signal High Bank 2 Sensor 1
27	--	--	Not Used	67	--	--	Not Used
28	TAN/WHT	1669	HO2S Signal Low Bank 1 Sensor 2	68	PPL/WH T	1668	HO2S Signal High Bank 1 Sensor 2
29	TAN/WHT	1653	HO2S Signal Low Bank 1 Sensor 1	69	PPL/WHT	1665	HO2S Signal High Bank 1 Sensor 1
30	LT GRN	1478	Engine Coolant Level Switch	70	BRN	1174	Low Oil Level Switch
31	--	--	Not Used	71	--	--	PERFORMANCE MODE SWITCH
32	BLK/WHT	771	PRND A Input (may need grounded as well for CKP relearn)	72	YEL	772	PRND B Input
33	PPL	420	TCC Brake Switch	73	BRN/WH T	633	Camshaft Position (CMP) Sensor Signal
34	WHT	776	PRND P Input	74	YEL	410	Engine Coolant Temperature (ECT) Sensor Signal
35	GRA	48	Clutch Switch Signal	75	PNK	1020	PCM Ignition Supply
36	BLK	1744	Injector 1 Control	76	BLK/WHT	845	Injector 5 Control
37	YEL/BLK	846	Injector 6 Control	77	DK BLU/WHT	878	Injector 8 Control
38	PNK/BLK	1101	Damping Lift/Drive Signal	78	--	--	Not Used
39	--	--	Not Used	79	WHT	687	3-2 Shift Solenoid Control
40	BLK/WHT	451	PCM Ground	80	ORN/BL K	510	Fuel Level Sensor Ground (8.1L CTS)

1999-2002 TRUCK Connector C2 RED

Pin	Wire Color	Circuit No.	Function	Pin	Wire Color	Circuit No.	Function
1	BLK/WHT	451	PCM Ground	41	WHT	257	EGR Solenoid Ground
2	BRN	418	TCC Control Solenoid	42	TAN/BLK	422	TCC Enable Circuit (4L60-E only)
3	TAN	1465	Fuel Pump Relay Control - Secondary	43	DK GRN/WH T	459	A/C Clutch Relay Control
4	--	--	Not Used	44	--	--	Not Used
5	TAN/BLK	464	Delivered Torque Signal	45	WHT	1310	EVAP Canister Vent Valve Control
6	RED/BLK	1228	Transmission Fluid Pressure Control Solenoid High	46	BRN/WH T	419	Malfunction Indicator Lamp (MIL) Control
7	RED	1676	EGR Solenoid Supply	47	YEL/BLK	1223	Transmission Shift Solenoid B
8	LT BLU/WHT	1229	Transmission Fluid Pressure Control Solenoid Low	48	LT GRN	1222	Transmission Shift Solenoid A
9	DK GRN/WHT	465	Fuel Pump Relay Control	49	YEL/BLK	1827	Vehicle Speed Output Circuit 128K
10	WHT	121	Engine Speed (Tach) Output Signal	50	DK GRN/WH T	817	Vehicle Speed Output Circuit 4K
11	DK BLU	604	Secondary A/C High Pressure Switch	51	YEL/BLK	1227	Transmission Temperature Sensor Signal
12	--	--	Not Used	52	GRY	23	Generator Field Duty Cycle Signal
13	LT BLU/BLK	396	Cruise Control Engage Signal	53	--	--	Not Used
14	--	--	Not Used	54	PPL	1589	Fuel Level Sensor Signal
15	BRN	25	Generator L Terminal	55	DK GRN	603	A/C Compressor Cycling Switch Signal
16	GRA/BLK	1694	4 Wheel Drive Switch Signal Low	56	--	--	Not Used
17	DK GRN/WHT	762	A/C Request Signal	57	BLK	552	IAT Sensor Ground
18	--	--	Not Used	58	--	--	Not Used
19	BLK/WHT	1695	4 Wheel Drive Front Axle Switch	59	--	--	Not Used
20	LT GRN/BLK	822	Vehicle Speed Sensor (VSS) Reference Low	60	BRN	2129	Ignition Control Reference Low Bank 1
21	PPL/WHT	821	Vehicle Speed Sensor (VSS) Signal	61	BRN/WH T	2130	Ignition Control Reference Low Bank 2
22	RED/BLK	1230	Vehicle Speed Sensor (VSS) Signal (6.0L Only)	62	GRA	773	PRND C
23	DK BLU/WHT	1231	Vehicle Speed Sensor (VSS) Reference Low (6.0L Only)	63	PNK	1224	Transmission Fluid Pressure Switch Signal A (A/T)
24	DK BLU	417	TP Sensor Signal	64	DK GRN	890	Fuel Tank Pressure Sensor Signal
25	TAN	472	IAT Sensor Signal	65	--	--	Not Used
26	PPL	2121	Ignition Control 1	66	PPL/WHT	2128	Ignition Control 8
27	RED	2127	Ignition Control 7	67	RED/WH T	2122	Ignition Control 2
28	LT BLU/WHT	2126	Ignition Control 6	68	DK GRN	2125	Ignition Control 5
29	DK GRN/WHT	2124	Ignition Control 4	69	LT BLU	2123	Ignition Control 3
30	--	--	Not Used	70	--	--	Not Used
31	YEL	492	MAF Sensor Signal	71	--	--	Not Used
32	LT GRN	432	MAP Sensor Signal	72	--	--	Not Used
33	DK GRN	1614	HVAC Recirculation Door Control (or use this pin for FAN 2 Control)	73	DK BLU	1936	Fuel Level Sensor Signal - Secondary
34	DK GRN/WHT	428	EVAP Canister Purge Solenoid Control	74	LT GRN/WH T	3213	HO2S Heater Control (w/isolated grounded o2 sensors 2001-02 6.0L ONLY)
35	--	--	Not Used	75	--	--	Not Used
36	BRN	436	AIR Pump Relay Control (w/NC1)	76	LT GRN/WH T	1749	IAC Coil B High - IAC BIN B
37	--	--	Not Used	77	LT GRN/BLK	444	IAC Coil B Low - IAC PIN A
38	--	--	(express fuel level sensor PWM output)	78	LT BLU/BLK	1748	IAC Coil A Low - IAC PIN C
39	RED	631	CMP Sensor B+ Supply	79	LT BLU/WHT	1747	IAC Coil A High - IAC PIN D
40	BLK/WHT	451	PCM Ground	80	LT GRN	3212	HO2S Heater Low Reference (w/isolated grounded sensors 2001-02 6.0L ONLY)