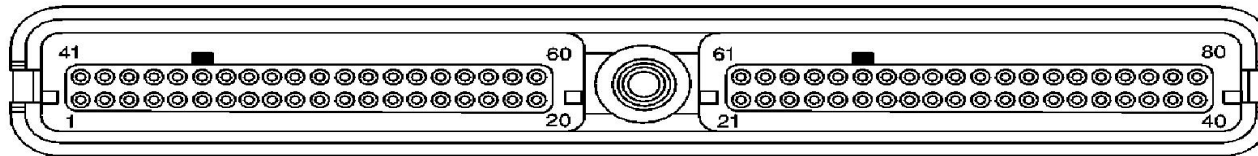


**BLOCKS HIGHLIGHTED LIKE THIS, ARE WIRES THAT ARE NEEDED, AND GO TO EXTERNAL**  
**BLOCKS HIGHLIGHTED LIKE THIS, ARE WIRES THAT CAN BE REMOVED FROM PCM**

Note: Removing all of these will result in a non-emissions friendly harness. If  
 When you are removing wires from the harness, for instance pin 70 of blue connector,



KEY

x Don't need

v Match

Don't know

Maybe?

**F Body 99-02 LS1 Connector C1 BLUE**

Pin	Wire Color	Circuit No.	Function
1	BLK	451	PCM Ground
2	LT GRN	1867	12 Volt Reference
3	PNK/BLK	1746	Fuel Injector 3 Control
4	LT GRN/BLK	1745	Fuel Injector 2 Control
5	--	--	Not Used
6	--	--	Not Used
7	--	--	Not Used
8	GRA	596	5 Volt Reference (TPS)
9	--	--	Not Used
10	--	--	Not Used
11	LT BLU	1876	KS [2] Signal

**F Body V6 98 Connector C1 BLUE**

Pin	Wire Color	Circuit No.	Function
1			
2	PPL/WHT	1572	2nd Gear Start Indicator (A4)
3			
4	LT GRN	1222	1-2 Shift Solenoid Control (A4)
5	DK BLU	473	Hi Speed Cool Fan Control
6	DK GRN	335	Low Speed Cool Fan Control
7	BLK	630	Camshaft Position Input
8	PPL/WHT	430	3x Reference
9	LT BLU/BLK	647	18x Reference
10			
11			

v

v

v

x

x

x

x

x

v

x

x

x

R33

B42

B61 B73, R39

B12, B21,

x

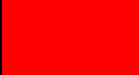
x

12	DK BLU/WHT	1869	CKP Sensor Signal		12	BRN	718	ECT Sensor Ground	B80
13	--	--	Not Used	x	13	ORN/BLK	469	MAP Sensor Ground	B54
14	--	--	Not Used	x	14				
15	--	--	Not Used	x	15	TAN	800	Serial Data (UART)	
16	--	--	Not Used	x	16	BLK/WHT	51	PCM Ground	
17	DK BLU	1225	Transmission Fluid Pressure Switch Signal B	x	17	PPL	719	IAT Sensor Ground	
18	RED	1226	Transmission Fluid Pressure Switch Signal C	x	18				x
19	PNK	439	Ignition 1 Voltage	v	19	PNK	439	Ignition Feed (Underhood)	B19
20	ORN	340	Battery Positive Voltage	v	20	ORN	340	Battery Feed (Underhood)	B20
21	YEL/BLK	1868	Low Reference CKP		21				x
22	--	--	Not Used	x	22	PNK	1224	Trans Range 'A' Input (A4)	x
23	GRA	720	Low Reference not needed (C2xx Plug)	x	23				x
24	--	--	Not Used	x	24				x
25	TAN	1671	HO2S Low Signal [Bank 2 Sensor 2]	x	25				x
26	TAN	1667	HO2S Low Signal [Bank 2 Sensor 1]	v	26				x
27	--	--	Not Used	x	27	TAN/WHT	1653	Bank 1 HO2S 1 Low	B29
28	TAN/WHT	1669	HO2S Low Signal [Bank 1 Sensor 2]	x	28	GRY	1981	Bank 1 HO2S 3 Low	x
29	TAN/WHT	1653	HO2S Low Signal [Bank 1 Sensor 1]	v	29	TAN	1667	Bank 2 HO2S 1 Low	B26
30	--	--	Not Used	x	30	PPL	420	TCC Brake Switch	B33
31	--	--	Not Used	x	31	BLK	552	EGR Pos Sensor Ground	
32	GRY	48	CPP Switch Signal (clutch switch)	v	32	GRY	435	EGR Valve Control Ground	
33	PPL	420	TCC Brake Switch Signal	v	33	DK BLU	496	Bank 1 Knock Sensor Signal	B51

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	--	--	Not Used
39	--	--	Not Used
40	BLK	451	Ground
41	--	--	Not Used
X	DK GRN	335	Low Speed Cooling Fan Relay Control
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)
46	GRA	474	5 Volt Reference (Fuel Tank Pressure Sensor)
47	GRA	--	5 Volt Reference (EGR) 99-00
48	GRA	416	5 Volt Reference (MAP Sensor)
49	--	--	Not Used
50	--	--	Not Used
51	DK BLU	496	KS [1] Signal
52	--	--	Not Used
53	BLK	407	Low Reference (Transmission Temperature Sensor)
54	BLK	407	Low Reference (MAP Sensor Ground)

√  
x  
√  
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x  
x  
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x  
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x  
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x  
√

34	LT BLU	1876	Bank 2 Knock Sensor Signal
35			
36	RED	225	Generator Control
37			
39	LT GRN/WHT	1749	IAC Valve B High
39			
40			
41			
X			
43	YEL/BLK	846	Injector Control Cyl 6
44	YEL/BLK	1223	2-3 Shift Solenoid Control (A4)
45			
46	LT BLU/BLK	844	Injector Control Cyl 4
47	BLK/WHT	845	Injector Control Cyl 5
48	RED/BLK	453	Ignition Control Reference Low
49			
50			
51			
52			
53	TAN/BLK	424	ICM Module Bypass
54	WHT	423	Ignition Control

B11  
x  
x  
R76  
x  
x  
x  
x  
B37  
x  
x  
B44  
B76  
  
x  
x  
x  
x  
convert to coils

55	BRN	1456	EGR Pintle Position Sensor Signal
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
61	PNK/BLK	632	Low Reference (Camshaft Position Sensor)
62	--	--	Not Used
63	--	--	Not Used
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	--	--	Not Used
72	--	--	Not Used
73	BRN/WHT	633	CMP Sensor Signal
74	YEL	410	ECT Sensor Signal
75	--	--	Not Used
76	BLK/WHT	845	Fuel Injector 5 Control

x	55	DK GRN/WHT	817	VSS Output	R50	R26 IC 1
x	56	BLK/WHT	451	PCM Ground	B1	R67 IC 2
	57	BLK/WHT	451	PCM Ground	B40	R69 IC 3
v	58				x	R29 IC 4
x	59	PPL	1807	Serial Data (Class 2)	B58	R68 IC 5
	60	BLK/WHT	51	PCM Ground	R1	R28 IC 6
v	61	BLK	452	TP Sensor Ground		
x	62				x	
x	63				x	
x	64	YEL	400	VSS High	R123	
x	65	PPL	401	VSS Low	R122	
v	66				x	
x	67				x	
x	68				x	
v	69	YEL	492	MAF Sensor Input	R31, R32	
v	70					
x	71					
x	72	DK GRN	83	Cruise Control Inhibit	R37	
v	73	LT GRN/BLK	1745	Injector Control Cyl 2	B4	
v	74				x	
x	75				x	
v	76	DK GRN/WHT	428	EVAP Purge Valve Control	R34	

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)
80	BLK	407	Low Reference ECT

x

x

x

v

77			
78			
79	BLK	1744	Injector Control Cyl 1
80			

x

x

B36

x

### F Body 99-02 LS1 Connector C2 RED

Pin	Wire Color	Circuit No.	Function
1	BLK	451	Ground
2	BRN	418	TCC Solenoid - Output - PWM
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)
7	--	--	Not Used
8	LT BLU/WHT	1229	PC Solenoid Valve Low Control (Sol.A)
9	DK GRN/WHT	465	Fuel Pump Relay Control [Primary]
10	WHT	121	Engine Speed Signal

v

x

x

x

x

x

x

x

v

v

### F Body 98 V6 Connector C2 RED

Pin	Wire Color	Circuit No.	Function
1			
2	WHT	1310	EVAP Vent Valve Control
3	DK GRN/WHT	465	Fuel Pump Relay Control
4	LT BLU	697	EGR Valve Control
5	BRN/WHT	419	MIL Lamp Control
6	BRN/WHT	1173	Low Engine Oil Indicator
7	LT BLU/WHT	1747	IAC Valve A High
8			
9			
10	PPL	1666	Bank 2 HO2S 1 Signal

x

R45

R9

x

R46

B70

R79

B66

11	--	--	Not Used	x	11	DK BLU	1980	Bank 1 HO2S 3 Signal	x
12	--	--	Not Used	x	12	PPL/WHT	1665	Bank 1 HO2S 1 Signal	B69
13	WHT	85	Cruise Control Engage Signal	v	13				x
14	RED/BLK	380	A/C Refrigerant Pressure Sensor Signal	v	14				x
15	RED	225	Generator Turn ON Signal	v	15				x
16	--	--	Not Used		16	ORN/BLK	434	Park/Neutral Pos Switch Signal	B34
17	DK GRN/WHT	762	A/C Request Signal	v	17	RED	1226	Trans Range 'C' Input (A4)	x
18	DK GRN	59	A/C Compressor Clutch Supply Voltage		18	GRY	48	Clutch Anticipate/Cruise Release Switch (M5)	B32
19	--	--	Not Used	x	19				x
20	LT GRN/BLK	822	VSS Low Signal	v	20				x
21	PPL/WHT	821	VSS High Signal	v	21	BRN/WHT	1571	2nd Gear Start Signal (A4)	x
22	--	--	Not Used	x	22	DK GRN/WHT	762	A/C Request	R17
23	--	--	Not Used	x	23	PPL/WHT	1035	Ignition	
24	DK BLU	417	TP Sensor Signal		24				
25	TAN	472	IAT Sensor Signal	v	25	LT GRN	432	MAP Sensor Input	R32
26	PPL	2121	IC 1 Control	v	26	YEL	410	ECT Sensor Input	B74
27	RED	2127	IC 7 Control	x	27	RED/BLK	380	A/C Refrigerant Pressure Sensor Signal	B45, R14
28	LT BLU/WHT	2126	IC 6 Control	v	28	BRN	1456	EGR Pintle Position Signal	x
29	DK GRN/WHT	2124	IC 4 Control	v	29				x
30	DK BLU	229	Fuel Enable Control	v	30				x
31	YEL	492	MAF Sensor Signal	v	31				x

32	LT GRN	432	MAP Sensor Signal
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
40	BLK	451	Ground
41	GRY	--	EGR Solenoid Ground 99-00
42	TAN/BLK	422	TCC Solenoid Valve Control
43	DK GRN/WHT	459	A/C Clutch Relay Control
44	WHT	1652	Reverse Lock Out Solenoid Control (MANUAL TRANS T56 ONLY)
45	WHT	1310	EVAP Canister Vent Solenoid Control
46	BRN/WHT	419	MIL Control (CHECK ENGINE LIGHT)
47	YEL/BLK	1223	2 - 3 Shift Solenoid Valve Control
48	LT GRN	1222	1 - 2 Shift Solenoid Valve Control

v	32				x
v	33	GRY	598	5 Volt Reference A	
v	34	LT BLU/BLK	1688	5 Volt Reference B	
x	35	GRY	720	Sensor Ground	
x	36				x
v	37				x
x	38				x
v	39	DK GRN/WHT	459	A/C Compressor Clutch Relay Control	R43
	40				x
x	41				x
x	42	PNK/BLK	1746	Injector Control Cyl 3	B3
v	43				x
	44	LT BLU/BLK	1748	IAC Valve A Low	R78
v	45	RED/BLK	1228	Pressure Control Solenoid High (A4)	x
v	46	LT BLU/WHT	1229	Pressure Control Solenoid Low (A4)	x
x	47				
x	48	WHT	687	3-2 Downshift Control Solenoid (A4)	x

Route to solenoid

49	--	--	Not Used
50	DK GRN/WHT	817	VSS Signal
51	YEL/BLK	1227	TFT Sensor Signal
52	--	--	Not Used
53	GRA/BLK	1687	Ignition Retard Signal
54	PPL	1589	Fuel Level Sensor Signal
55	--	--	Not Used
56	--	--	Not Used
57	PPL	719	Low Reference IAT
58	--	--	Not Used
59	--	--	Not Used
60	BRN	2129	Ignition Control Low Reference
61	BRN/WHT	2130	Ignition Control Low Reference
62	--	--	Not Used
63	PNK	1224	Transmission Fluid Pressure Switch Signal A
64	DK GRN	890	Fuel Tank Pressure Sensor Signal
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	--	--	Not Used
71	--	--	Not Used

x	49	LT GRN/BLK	444	IAC Valve B Low	R77
v	50	TAN	472	IAT Sensor Input	R25
x	51				x
x	52				x
x	53				x
v	54				x
x	55	DK GRN	890	Fuel Tank Pressure Sensor Signal	R64
x	56				x
	57	DK BLU	1225	Trans Range 'B' Input (A4)	
x	58	BRN	1174	Engine Oil Level Input	B70
x	59	WHT	85	Cruise Engaged Signal	R13
	60				x
	61	BRN	25	Generator Control	R15
x	62				x
x	63				x
v	64				x
x	65				x
x	66	DK BLU	417	Trottle Position Sensor Signal	
v	67				x
v	68	YEL/BLk	1227	A/T Fluid Temp Sensor Input (A4)	x
v	69	PPL	30	Fuel Level Input	R54
x	70				x
x	71				x



72	--	--	Not Used
73	--	--	Not Used
74	--	--	Not Used
75	--	--	Not Used
76	LT GRN/WHT	1749	IAC Coil B High Control
77	LT GRN/BLK	444	IAC Coil B Low Control
78	LT BLU/BLK	1748	IAC Coil A Low Control
79	LT BLU/WHT	1747	IAC Coil A High Control
80	--	--	Not Used

x	72				x
x	73				x
x	74				x
x	75				x
v	76				
v	77				x
v	78	BRN	418	TCC PWM Solenoid Control (A4)	x
v	79	TAN/BLK	422	TCC Solenoid Control (A4)	x
x	80				x