



Converting a 1998 LS1 PCM to 1999+ LS1 PCM

To begin the process of converting the 1998 Fbody harness to the 1999-2002 Fbody harness start with C1 RED connector. Take notice, the 1998 PCM C1 is RED and the C2 connector is BLUE. The opposite is true for the 1999–2002 PCM. C1 is BLUE and C2 is RED. If you are performing this “in car,” you must disconnect the battery to avoid arc welding. Remove the Red and Blue covers and label the aluminum connector housings using a permanent marker with the colors red and blue. Some terminal locations in the connector will need to be perforated with a small sharp pick to allow the terminal to slide into its new location.

The numbered instructions have the color of the connector noted “Red” or “Blue.” The 1998 location & wire color (in Caps) are next then followed by “TO” where it goes on the later model harness. Some circuits will be deleted if present. EGR circuits will be shown for 1999/2000 conversions. The EGR wires can be installed in 2001-2002 applications if desired. Some circuits will fit best if extended. Label them and extend them after swapping is finished. Use the “Check Auto/Manual” Excel file to verify the swap. The colors and circuits reflect the 1998 color code that is sometimes different from the later models.

Red Connector

orig. 98 Pin	98 Color	New 99 Pin/Color	Comments
3	WHT	Red C2-45	
4	BRN/WHT	Blue C1-73	
7	YEL	Red C2-21	
9	PNK/BLK	Blue C1-3	
11	DK BLU	Red C2-30	
12	LT BLU/BLK	Blue C1-44	

Blue Connector

orig. 98 Pin	98 Color	New 99 Pin/Color	Comments
1	TAN	Blue C1-25	
2	TAN/WHT	Blue C1-28	
3	TAN	delete	
4	RED	Red C2-39	
5	TAN	Blue C1-26	
6	TAN/WHT	Blue C1-29	
7	RED/BLK	Red C2-14	Recommended to

13	RED/WHT	Red C2-67					Extend
14	DK GRN	Red C2-18		8	TAN	Red C2-25	
15	BLK/WHT	Blue C1-76		9	BRN	Blue C1-55	
18	YEL/BLK	Blue C1-37		10	PPL	Red C2-54	
21	PPL	Red C2-57		12	DK BLU	Red C2-24	
22	DK BLUE	Blue C1-17		13	YEL/BLK	Red C2-51	
23	LT GRN/BLK	Blue C1-4		14	ORG/BLK	Blue C1-53	
24	BLK/WHT		If present discard it and Red C2-24	19	PNK	Blue C1-19	
25	PNK	Red C2-63		20	ORN	Blue C1-20	
27	RED/BLK	Blue C1-43		21	BLK	Blue C1-40	
30	GRY/BLK	Red C2-53	if not present, skip this step.	22	YEL/BLK	Blue C1-21	
31	DK BLU/WHT	Blue C1-77		23	BLK	Blue C1-60	
32	ORG/BLK	Blue C1-34		25	BRN	Blue C1-80	
33	BLK	Blue C1-36		26	ORN/BLK	Blue C1-54	
34	WHT (auto) GRAY (manual)	Blue C1-79		28	DK BLU	Red C2-33	Recommended to Extend
35	LT GRN	Red C2-48		30	BRN	Red C2-36	Recommended to Extend
36	DK BLU	Red C2-38	TEST FIRST! 99-02 PCMs	31	PPL	Red C2-4	Recommended to Extend
37	BRN/WHT	Red C2-46		32	TAN/BLK	Red C2-42	
39	DK GRN/WHT	Red C2-43		33	BRN	Red C2-2	
40	YEL/BLK	Red C2-47	for manual trans discard WHT (Note 1)	34	GRY	Red C2-41	for 99/00 w/EGR 01/02 discard
41	BRN/WHT	delete	was for low oil light.	35	WHT	Red C2-10	
42	LT GRN	Red C2-44	manual trans only.	36	LT BLU/WHT	Red C2-8	
43	DK GRN	Blue C1-42		37	DK GRN/WHT	Red C2-9	Recommended to Extend
44	YEL	Blue C1-12		38	LT BLU	Red C2-7	for 99-00 w/EGR. 01/02 Discard
45	DK GRN/WHT	Red C2-34		39	RED/BLK	Red C2-6	
47	DK GRN/WHT	Red C2-17		41	PPL	Blue C1-65	
48	YEL	Red C2-31		42	PPL/WHT	Blue C1-68	
49	PPL	Red C2-26		43	GRY	Blue C1-8	
52	PPL/WHT	Red C2-66		46	PPL	Blue C1-66	
53	RED	Red C2-27		47	PPL/WHT	Blue C1-69	
				48	LT GRN	Red C2-32	
				49	YEL	Blue C1-74	
				52	DK GRN	Red C2-64	
				54	LT GRN/BLK	Red C2-77	

54	LT BLU/WHT	Red C2-28		55	LT BLU/BLK	Red C2-78	
55	DK GRN/WHT	Red C2-50		56	LT BLU/WHT	Red C2-79	
56	DK GRN	Red C2-68		57	LT GRN/WHT	Red C2-76	
57	DK GRN/WHT	Red C2-29		58	PPL	Blue C1-58	
58	LT BLU	Red C2-69		60	BLK	Blue C1-1	
59	BRN/WHT	Red C2-61		61	ORN	Blue C1-57	
60	BRN	Red C2-60		62	LT GRN	Blue C1-2	Recommended to Extend
61	RED	Blue C1-18		64	GRY	Blue C1-48	
62	BLK	Blue C1-41		65	GRY	Blue C1-47	
63	BLK	Red C2-57	SPLICE? Or Blue C1-63	66	GRY	Blue C1-45	
71	PPL	Red C2-20		67	GRY	Blue C1-46	
72	BLK	Red C2-1		68	LT BLU	Blue C1-11	
75	GRY	Blue C1-23		69	DK BLU	Blue C1-51	
76	BLK	Red C2-40		70	PNK/BLK	Blue C1-61	
77	PPL	Blue C1-33		76	BRN	Blue C1-70	

NOTE: Red C1-60 BRN, Blue C2-19 PNK, C2-58 PPL and C2-20 ORN remain in the same locations.

The low oil light will not work in the dash of the 1998 car. It can be wired in elsewhere if desired. See omitted wire from RED C1-41 BRN/WHT.

Additional notes for manuals:

1. The skip shift light will not function with the 1998 cluster. It can be wired in elsewhere if desired. See omitted wire from Red C1-40 WHT.
2. The clutch pedal position sensor needs to be wired in. If not code P0704 should be disabled and a grounded pigtail inserted in the Blue C1-32 connector.

Notes:

1. Cruise Control is not affected by the 1998 PCM; hence no wires to the later model PCM. The cruise will work as normal for the 1998 vehicle.
2. You now have the option to make a direct PCM connected performance mode transmission switch on LS1 PCM's you need to do the following:
 - 2a. Change the Perf Option to "1 Switch" in the pcm (HP Tuners Required)

2b. Wire a momentary ground switch to pin J1-71 on the PCM (the blue connector).

Note: Momentary ground means a switch that is grounded when depressed and open circuit when released again. DO NOT use a regular toggle or latching style switch or it won't work. The PCM expects this pin to be grounded only when the switch is pressed to toggle the shift mode.