

Figure A-2 - ECM Wiring Diagram 5.0L (VIN F) & 5.7L (VIN 8) "F" Carline (1 of 4)

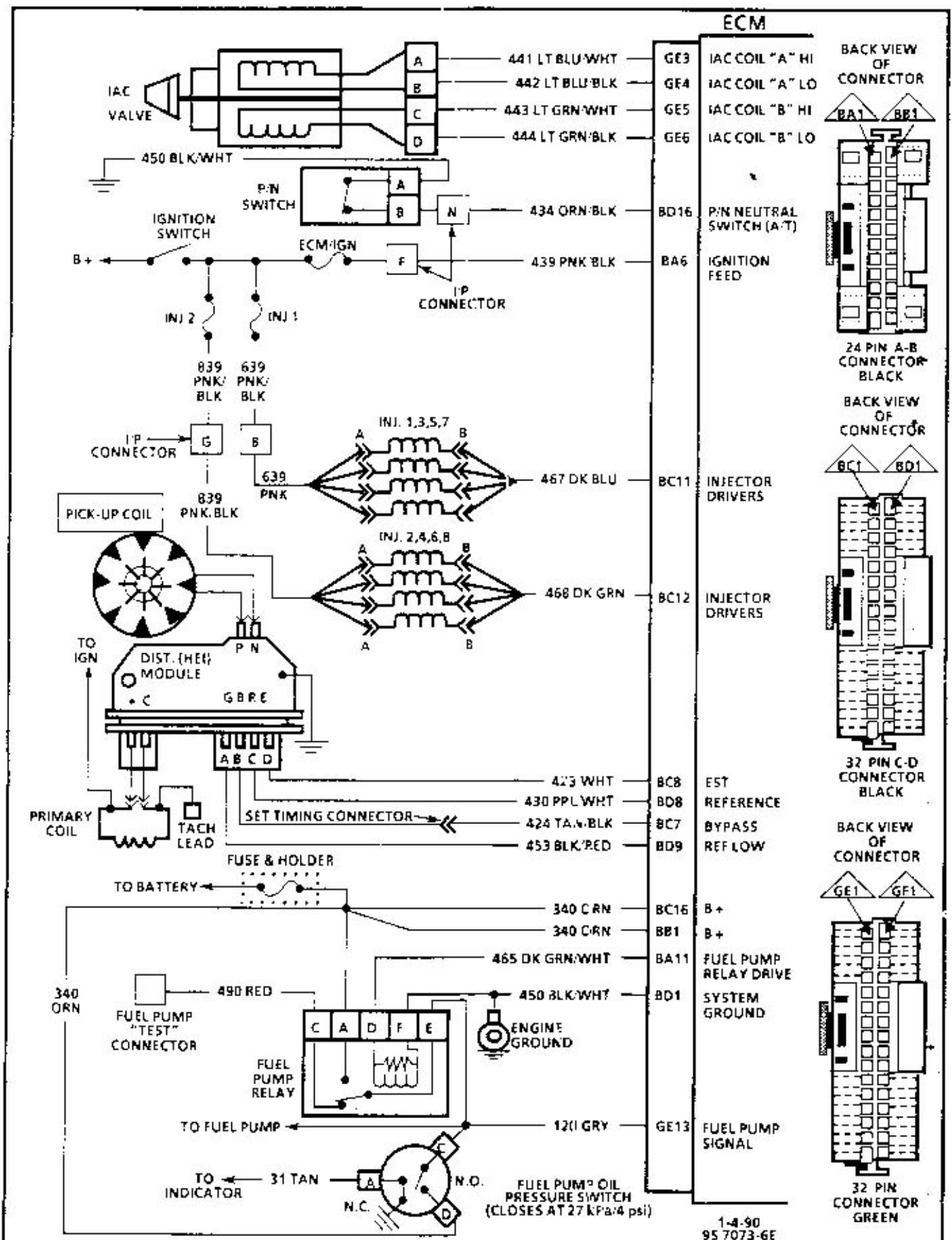


Figure A-3 - ECM Wiring Diagram 5.0L (VIN F) & 5.7L (VIN 8) "F" Carline (2 of 4)

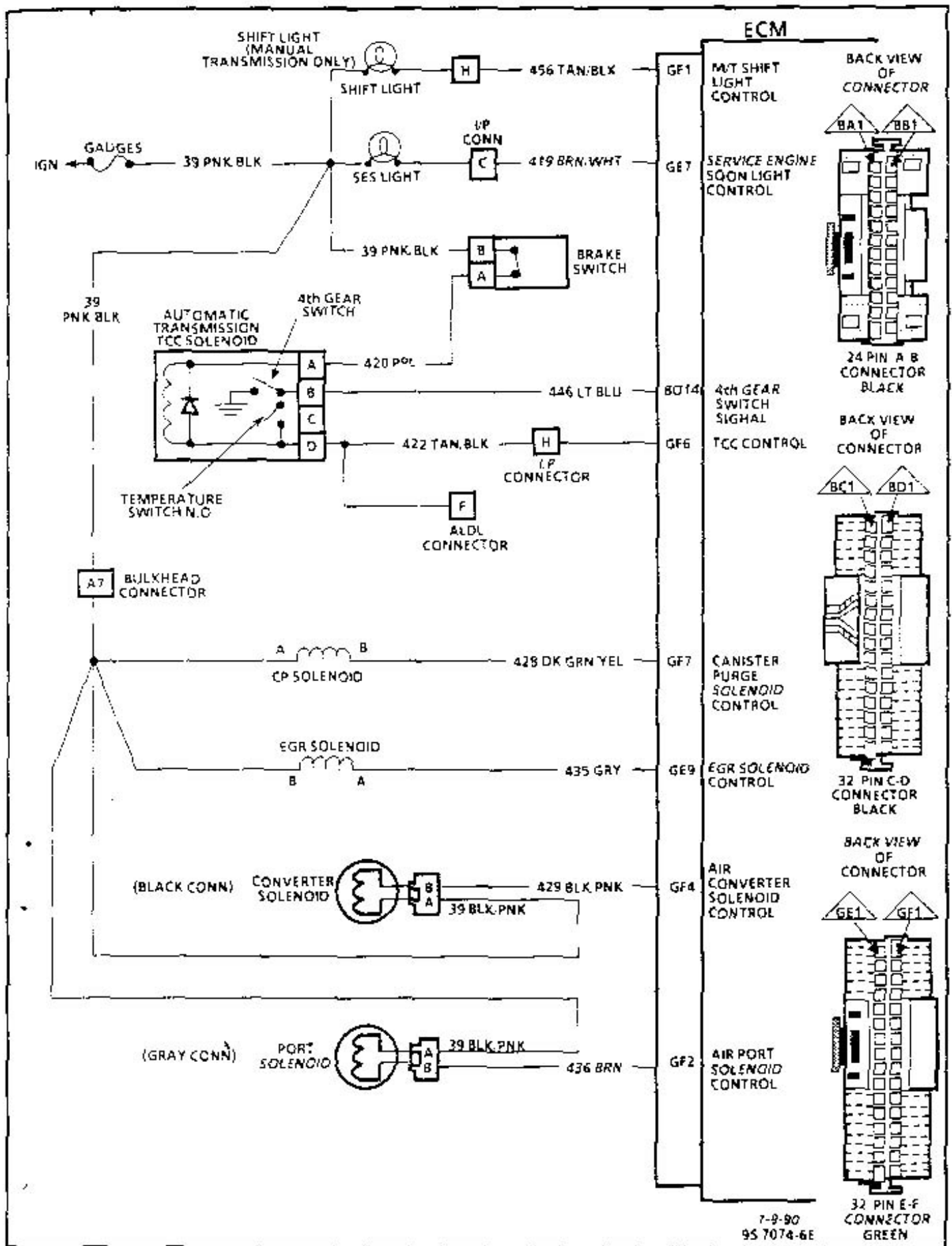


Figure A-4 - ECM Wiring Diagram 5.0L (VIN F) & 5.7L (VIN 8) "F" Carline (3 of 4)

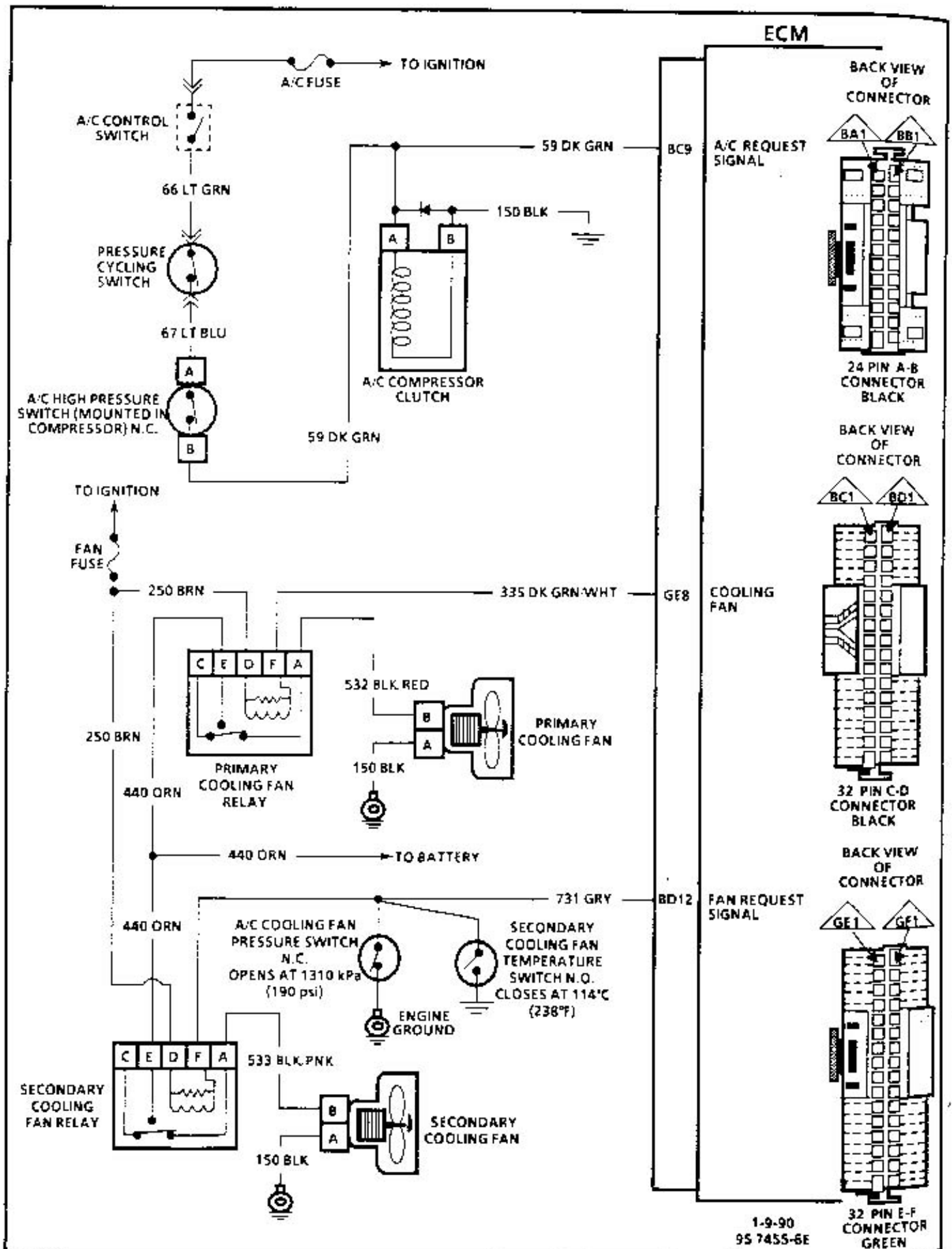


Figure A-5 - Wiring Diagram 5.0L (VIN F) & 5.7L (VIN 8) "F" Carline (4 of 4)

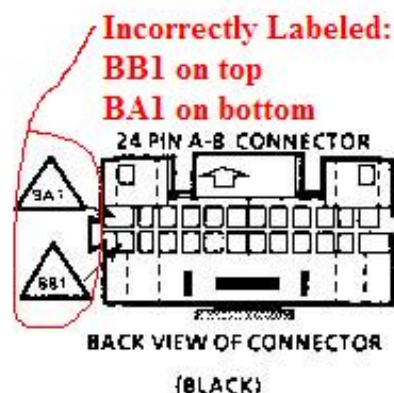
PORT FUEL INJECTION ECM CONNECTOR IDENTIFICATION

This ECM voltage chart is for use with a digital voltmeter to further aid in diagnosis. The voltages you get may vary due to low battery charge or other reasons, but they should be very close.

THE FOLLOWING CONDITIONS MUST BE MET BEFORE TESTING:

- Engine at operating temperature
- Engine idling in closed loop (For "Engine Run" column) in park or neutral
- Diagnostic "Test" terminal not grounded
- ALDL "Scan" tool not installed

VOLTAGE					
KEY "ON"	ENG. RUN	CIRCUIT	PIN	WIRE COLOR	CKT #
			BA1		
5	5	+5V REFERENCE (MAP)	BA4	GRY	474
5	5	+5V REFERENCE (TPS)	BA5	GRY	416
B+	B+	IGNITION FEED	BA6	PNK/BLK	439
② 4.8	4.8	SERIAL DATA	BA8	ORN	461
③ 0*	B+	FUEL PUMP RELAY DRIVE	BA11	DK GRN/WHT	465
④ 0*	0*	ECM GROUND	BA12	BLK.WHT	450



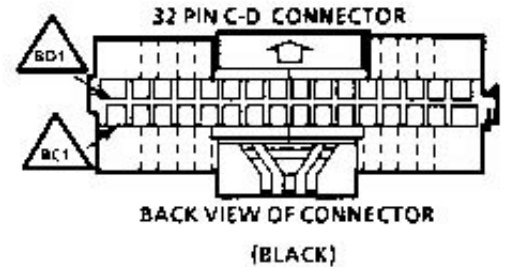
VOLTAGE					
KEY "ON"	ENG. RUN	CIRCUIT	PIN	WIRE COLOR	CKT #
B+	B+	BATTERY FEED	BB1	ORN	340
0*	0*	TPS & MAT SENSOR GROUND	BB5	BLK	452
0*	0*	CTS & MAP SENSOR GROUND	BB6	BLK	470
0*	⑤	VSS (LOW)	BB9	PPL	401
0*	⑥	VSS (HIGH)	BB10	YEL	400
B+	B+	VSS TO WP 4000 P/M	BB11	GRY	1019
			BB12		

- ▽ Less than 1 volt.
- * Less than .5 volt.
- ① Varies from .60 volt to Battery Voltage depending on position of drive wheels.
- ② Varies
- ③ Varies with temperature.
- ④ Battery Voltage for first two seconds.
- ⑤ Battery Voltage when fuel pump is running.
- ⑥ Reads battery voltage when in gear.

ENGINE 5.0L L89
 5.7L L98
 CARLINE "F"

Figure A-6 - ECM Connector Terminal End View 5.0L (VIN F) & 5.7L (VIN 8) "F" Carline (1 of 3)

VOLTAGE					
KEY "ON"	ENG. RUN	CIRCUIT	PIN	WIRE COLOR	CKT #
①		VEHICLE SPEED SIGNAL	BC1	RED	381
0*	5	BYPASS	BC7	TAN/BLK	424
0*	1.3	EST	BC8	WHT	423
B+ 0*	B+ 0*	WITH A/C "ON" A/C REQUEST	BC9	DK GRN	59
B+	B+	INJECTOR 1, 3, 5, 7	BC11	DK BLU	467
B+	B+	INJECTOR 2, 4, 6, 8	BC12	DK GRN	468
B+	B+	BATTERY FEED	BC16	ORN	340



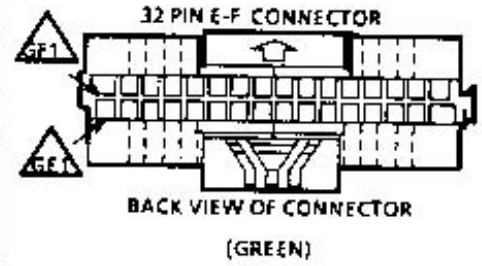
VOLTAGE					
KEY "ON"	ENG. RUN	CIRCUIT	PIN	WIRE COLOR	CKT #
0*	0*	ECM GROUND	BD1	BLK/WHT	450
0*	0*	INJECTOR GROUND	BD6	BLK/WHT	450
0*	0*	INJECTOR GROUND	BD7	BLK/WHT	450
0*	2.3	REFERENCE	BD8	PPL/WHT	430
0*	0*	REFERENCE LOW	BD9	BLK/RED	453
		FAN #2 REQUEST	BD12	GRY	731
0*	0*	4TH GEAR SWITCH	BD14	LT BLU	446
0*	0*	PARK/NEUTRAL (P/N) SWITCH SIG.	BD16	ORN/BLK	434

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- ④ Battery Voltage for first two seconds.
- ⑤ Battery Voltage when fuel pump is running.
- ⑥ Reads battery voltage when in gear.

5.0L LB9
ENGINE 5.7L L98
CARLINE "F"

Figure A-7 - ECM Connector Terminal End View 5.0L (VIN F) & 5.7L (VIN 8) "F" Carline (2 of 3)

VOLTAGE					
KEY "ON"	ENG. RUN	CIRCUIT	PIN	WIRE COLOR	CKT #
			GE1		
NOT USEABLE		IAC "A" HIGH	GE3	LT BLU/WHT	441
NOT USEABLE		IAC "A" LOW	GE4	LT BLU/BLK	442
NOT USEABLE		IAC "B" HIGH	GE5	LT GRN/WHT	443
NOT USEABLE		IAC "B" LOW	GE6	LT GRN/BLK	444
0*	B+	"SERVICE ENGINE SOON LIGHT"	GE7	BRN/WHT	419
0* B+	0* B+	"ON" FAN RELAY "OFF" CONTROL	GE8	DK GRN/WHT	335
B+	1▽	EGR SOLENOID CONTROL	GE9	GRY	435
5	5	DIAGNOSTIC "TEST" TERMINAL	GE12	BLK/WHT	451
④	B+	FUEL PUMP SIGNAL PPSW	GE13	GRY	120
35-.55	.1-.9	OXYGEN (O ₂) SENSOR SIGNAL	GE14	PPL	412
0*	0*	OXYGEN (O ₂) SENSOR GROUND	GE15	TAN	413
⑤	③	CTS SIGNAL	GE16	YEL	410



VOLTAGE					
KEY "ON"	ENG. RUN	CIRCUIT	PIN	WIRE COLOR	CKT #
0* B+	0* B+	M/T SHIFT LIGHT CONTROL	GF1	TAN/BLK	456
B+	B+	PORT (SWITCH) SOLENOID	GF2	BRN	436
B+	1▽	CONVERTER (DIVERT) SOLENOID	GF4	BLK/PNK	429
0* B+	0* B+	TCC CONTROL A/T	GF6	TAN/BLK	422
B+	B+	CANISTER PURGE SOL CONTROL	GF7	DK GRN/YEL	428
9.2	9.3	ESC KNOCK SENSOR SIGNAL	GF9	DK BLU	496
2.5	2.5	(PASS-KEY) VATS SIGNAL	GF10	DK BLU	229
.65	.65	TPS SIGNAL	GF13	DK BLU	417
4.57	②	MAP SIGNAL	GF15	LT GRN	432
⑥	③	MAT SIGNAL	GF16	TAN	472

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- ⑤ Battery Voltage when fuel pump is running.
- ⑥ Reads battery voltage when in gear.

5.0L LB9
ENGINE 5.7L L98
CARLINE "F"

Figure A-8 - ECM Connector Terminal End View 5.0L (VIN F) & 5.7L (VIN 8) "F" Carline (3 of 3)