* USE T -100 YELLOW BREAKOUT BOX (BOB)					RPO: <u>LT1</u>			
ECM PIN/FUNCTION	BOB PIN #	WIRE COLOR	CKT #	NOT.	TAGE			
				CON-	ENG "RUN"	6E3 REFERENCE		
A1 EVAP CANISTER PURGE CONTROL	104	DK GRN/WHT	428	8+	B + (1)	SECTION C3		
A2 EGR SOLENOID VALVE CONTROL	101	GRY	435	8+	B + (1)	SECTION C7		
A3	112							
A4 IACCOIL "A" HIGH	109	LT BLU/WHT	1747	(3)	(3)	SECTION C2		
AS IACCOIL "B" LOW	119	LT GRN/BLK	444	(3)	(3)	SECTION C2		
A6 MIL (SERVICE ENGINE SOON) CONTROL	117	BRN/WHT	419	0.	8+	CHARTS A-1, A-2		
A7	103					T. 30 - 37		
AS AIR PUMP RELAY CONTROL	102	BRN	436	8+(1)	8+(1)	SECTION C6		
A9	111							
A10 IAC COIL "A" LOW	110	LT BLU/BLK	1748	(3)	(3)	SECTION CZ		
A11 IAC COIL "B" HIGH	118	LT GRN/WHT	1749	(3)	(3)	SECTION C2		
A12 IGNITION CONTROL	108	WHT	423	0.	1.1 (3)	SECTION C4		
A13 ECT SIGNAL	105	YEL	410	1.8 (4)	1.7 (4)	DTC(s)14, 15		
A14	116							
A15	113							
A16	122							
A17	120							
A18	107							
A19 PASS-Key <sup>®</sup> ll	106	DK 8LU	229	2.5	2.5	DTC 46		
A20	115							
A21 PNP SIGNAL	114	ORN/BLK	434	0 * (5)	0 * (5)	CHART C-1A		
		1						

22 PIN ECM CONNECTOR

## NOTICE: DO NOT BACKPROBE ECM CONNECTORS!

This Chart may be used in conjunction with the T-100 Yellow Breakout Box (48921) to obtain voltage present for each circuit listed. Install the BOB between the ECM harness connectors and the ECM, then probe the pin listed under "BOB PIN#". Voltage may vary due to low battery charge or other reasons, but should be very close. All voltages shown in the ENG "RUN" column are typical with engine at idle, closed throttle, normal operating temperature, park or neutral, system in "Closed Loop," all accessories "OFF," and scan tool not installed.

DK GRN/WHT

762

0 \* (6)

0 \* (6)

SECTION C10

121

DVM NEGATIVE (BLACK) LEAD MUST BE CONNECTED TO A KNOWN GOOD GROUND.

- (1) LESS THAN .5 VOLT WHEN SYSTEM ENABLED.
- (2) 12 VOLTS FOR FIRST TWO SECONDS WITH IGNITION "ON."
- (3) VARIES.

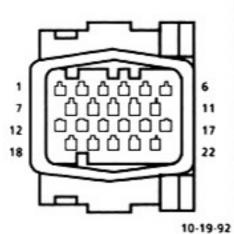
A22 A/C REQUEST

(4) VARIES WITH TEMPERATURE.

CARLINE

- (5) BATTERY VOLTAGE WHEN IN GEAR.
- (6) BATTERY VOLTAGE WHEN SYSTEM IS ENABLED.
  - LESS THAN .5 VOLT.

GRAY ECM CONNECTOR A



MS 12315

5.7L (VIN P)

"F" CARLINE

22 PIN ECM CONNECTOR

\* USE T-100 YELLOW BREAKOUT BOX (BOB)

5.7L (VIN P) RPO: LT1

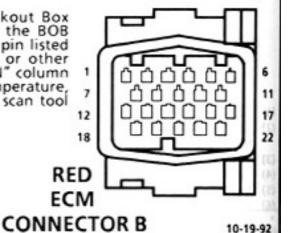
ECM PIN/FUNCTION	BOB PIN #	WIRE COLOR	CKT	VOT.	TAGE		
				KEY "ON"	ENG "RUN"	6E3 REFERENCE	
B1 REVERSE LOCKOUT SOLENOID CONTROL (MANUAL TRANSMISSION)	204	LT GRN	1652	0 * (2)	0 * (2)	SECTION C8	
B2 TCC (AUTOMATIC TRANSMISSION)	201	TAN/BLK	422	B+	8+(1)	SECTION C8	
B3 MAP, IAT, & A/C REFRIGERANT SENSOR GND	212	BLK	808	0.	0.	DTC(s) AFFECTED	
B4 PRIMARY COOLING FAN	209	DK GRN	335	B+	B + (1)	SECTION C12	
BS A/C CLUTCH CONTROL	219	DK GRN/WHT	459	B+	8 + (1)	SECTION C10	
B6 ECM GROUND	217	BLK/WHT	451	0.	0 *	SECTION B	
87	203						
88	202						
89	211						
B10 SECONDARY COOLING FAN (WITH C60)	210	DK BLU	473	8+	8 + (1)	SECTION C12	
811	218						
812	208						
813	205						
B14 4th GEAR SIGNAL	216	LT BLU	446	B +	B + (1)	SECTION C8	
B15	213						
B16	222						
B17 ECM GROUND	220	BLK/WHT	451	0.	0 *	SECTION B	
B18 TP SENSOR, ECT GROUND	207	BLK	470	0.	0.	DTC(s) AFFECTED	
B19 3rd GEAR SIGNAL	206	DK GRN/WHT	438	0.	0.	SECTION C8	
B20 2nd GEAR SIGNAL	215	WHT	232	0.	0.	SECTION C8	
B21	214						
B22 ECM GROUND	221	TAN/WHT	551	0.	0.	SECTION B	

## **NOTICE**: DO NOT BACKPROBE ECM CONNECTORS!

This Chart may be used in conjunction with the T-100 Yellow Breakout Box (48921) to obtain voltage present for each circuit listed. Install the BOB between the ECM harness connectors and the ECM, then probe the pin listed under "BOB PIN#". Voltage may vary due to low battery charge or other reasons, but should be very close. All voltages shown in the ENG "RUN" column are typical with engine at idle, closed throttle, normal operating temperature, park or neutral, system in "Closed Loop," all accessories "OFF," and scan tool not installed.

DVM NEGATIVE (BLACK) LEAD MUST BE CONNECTED TO A KNOWN GOOD GROUND.

- (1) LESS THAN .5 VOLT WHEN SYSTEM IS ENABLED.
- (2) BATTERY VOLTAGE ABOVE 5 MPH.
  - LESS THAN .5 VOLT.



10-19-92 MS 12316

		T			TAGE		
ECM PIN/FUNCTION	BOB PIN #	WIRE COLOR	CKT#	KEY "ON"	ENG "RUN"	6E3 REFERENCE	
C1 A/C STATUS	304	DK GRN	59	0	0 (3)	SECTION C10	
C2 + 5 VOLTS REFERENCE	301	GRY	474	5	5	DTC(s) AFFECTED	
C3 TP SENSOR SIGNAL	312	DK BLU	417	.62	.62	DTC(s) 21, 22	
C4	309						
CS LOWRESOLUTION	319	RED/BLK	453	1.0 OR 5.0	1.0(4)	DTC 16	
C6 BATTERY FEED	317	ORN	340	8+	8+	CHART A-1	
C7 + S VOLTS REFERENCE	303	GRY	416	5	5	DTC(s) AFFECTED	
C8 KNOCK SENSOR SIGNAL	302	DK BLU	496	2.5	2.5	DTC 43, SECTION CS	
C9 REFERENCE LOW	311	PNK/BLK	632	0	0	SECTION C4	
C10	310	-					
C11 A/C REFRIGERANT PRESSURE SENSOR SIGNAL	318	RED/BLK	380	.78	.6-1.0 (5)	DTC(s) 66, 67	
C12 IGNITION FEED	308	PNK	439	8+	8+	CHART A-1	
C13	305						
C14 HIGH RESOLUTION	316	LT BLU/BLK	647	0.	2.5 (4)	DTC 36	
C15	313						
C16 A/C EVAPORATOR TEMPERATURE SENSOR SIGNAL	322	DK BLU	732	1.4 (2)	1.4 (2)	CHART C-10 DTC 71	
C17 BATTERY FEED	320	ORN	340	B+	8+	CHART A-1	
C18 DISTRIBUTOR IGNITION FEED	307	RED	631	B+	8+	SECTION C4	
C19	306						
C20 FUEL PUMP SIGNAL	315	GRY	120	0*(6)	8+	( = = = = = = = = = = = = = = = = = = =	
C21 MAP SIGNAL	314	LT GRN	432	4.8 (1)	1.2 (1)	DTC(s) 33, 34	

TAN

22 PIN ECM CONNECTOR

NOTICE: DO NOT BACKPROBE ECM CONNECTORS!

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321

DVM NEGATIVE (BLACK) LEAD MUST BE CONNECTED TO A KNOWN GOOD GROUND.

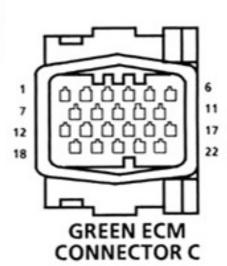
(1) VARIES WITH ALTITUDE.

"F" CARLINE

- (2) VARIES WITH TEMPERATURE.
- (3) B+ WHEN SYSTEM IS ENABLED.
- (4) VARIES.

C22 IAT SIGNAL

- (5) WITH A/C "OFF"
- (6) B + WHEN FUEL PUMP IS ENABLED
  LESS THAN .5 VOLT.



DTC(s) 23, 25

3.0(2)

2.0(2)

472

(VIN P)

	BOB PIN #	WIRE COLOR		VOL	TAGE	6E3
ECM PIN/FUNCTION			CKT#	KEY "ON"	ENG "RUN"	REFERENCE
D1 VSS GROUND	404	PPL	401	0,	0*	DTC 24
D2	401					
D3	412					
D4 SERIAL DATA	409	TAN	800	(1)	(1)	CHART A-2
D5	419					
D6 BANK 1 (LEFT) 02S SIGNAL	417	PPL/WHT	1665	.38 (1)	.19 (1)	DTC(s) 13, 44
D7 FUEL PUMP RELAY DRIVER	403	DK GRN/WHT	465	0 (2)	8+	CHART A-5
D8 VSS OUTPUT (4KPPM)	402	DK GRN/WHT	817	(3)	(3)	DTC 24
D9	411				¥.	
D10 INJECTOR DRIVER	410	DK GRN	468	B+	B +	CHART A-3
D11 INJECTOR DRIVER	418	DK BLU	467	8+	B+	CHART A-3
D12 VSS SIGNAL	408	YEL	400	(3)	(3)	DTC 24
D13	405					
D14	416					
D15	413					
D16 O25 GROUND	422	BLK/WHT	351	0 *	0 *	DTC(s) 13, 63
D17	420					
D18	407					
D19	406					
D20 DIAGNOSTIC ENABLE	415	WHT/BLK	448	5	5	CHART A-2
D21	414					
D22 BANK 2 (RIGHT) O25 SIGNAL	421	PPL	1666	.36	.19 (1)	DTC(s) 63, 64

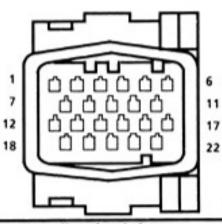
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DVM NEGATIVE (BLACK) LEAD MUST BE CONNECTED TO A KNOWN GOOD GROUND.

BROWN ECM CONNECTOR D

- (1) VARIES.
- (2) B + FOR TWO SECONDS WITH IGNITION "ON."
- (3) VARIES DEPENDING ON POSITION OF DRIVE WHEELS.
  - LESS THAN .5 VOLT.



10-9-92 MS 12314