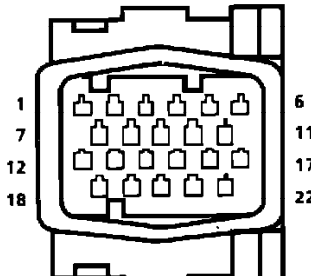


1992 "W" CARLINE		22 PIN ECM CONNECTOR			3.4L (VIN X)	
* USE T-100 YELLOW BREAKOUT BOX (BOB)				RPO: <u>LQ1</u>		
ECM PIN/FUNCTION	BOB PIN #	WIRE COLOR	CKT #	VOLTAGE		
				KEY "ON"	ENG "RUN"	
A1 IAC "A" HIGH	104	LT BLU/WHT	441	NOT USEABLE		
A2 IAC "B" LOW	101	LT GRN/BLK	444	NOT USEABLE		
A3 FAN #2 CONTROL	112	DK BLU/WHT	473	FAN "OFF" B+	FAN "ON" D*	
A4 EGR SOLENOID #1	109	LT BLU	697	B+	B+	
A5	119					
A6	117					
A7 IAC "A" LOW	103	LT BLU/BLK	442	NOT USEABLE		
A8 IAC "B" HIGH	102	LT GRN/WHT	443	NOT USEABLE		
A9 FAN #1 CONTROL	111	DK GRN/WHT	335	FAN "OFF" B+	FAN "ON" 0*	
A10 CANISTER PURGE	110	DK GRN/YEL	428	0*	0*	
A11 ESC SIGNAL	118	DK BLU	496	2.5	2.5	
A12 A/C RELAY CONTROL	108	DK GRN/WHT	459	A/C "OFF" B+	A/C "ON" 0*	
A13 SHIFT SOLENOID "B"	105	LT BLU	582	0*	0*	
A14	116					
A15	113					
A16 O <sub>2</sub> SIGNAL	122	PPL	412	(3)	(3)	
A17	120					
A18 SHIFT SOLENOID "A"	107	DRN	581	0*	0*	
A18 AIR PUMP RELAY (M/T 3.4L)	107	BLK/PNK	429	B+	*	
A19 EGR SOLENOID #2	106	BRN	698	B+	B+	
A20 FUEL PUMP SIGNAL	115	GRY	120	(4)	B+	
A21	114					
A22 SENSOR GROUND	121	TAN	413	0*	0*	

**\*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) INCREASES WITH VEHICLE SPEED (MEASURE ON A/C SCALE).  
 (2) NORMAL OPERATING TEMPERATURE.  
 (3) VARIES.  
 (4) 12 VOLTS FIRST TWO SECONDS.  
 (5) VARIES WITH TEMPERATURE.  
 \* LESS THAN 1 VOLT.



**ECM CONNECTOR A ORANGE**

5-17-91  
MS 11916

Control Module Connector ID And Pin/Voltage Reference Chart (1 Of 4)

**1992 "W" CARLINE 22 PIN ECM CONNECTOR** **3.4L (VIN X)**  
**RPO: LQ1**

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

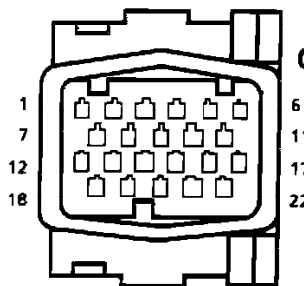
ECM PIN/FUNCTION	BOB PIN #	WIRE COLOR	CKT #	VOLTAGE	
				KEY "ON"	ENG "RUN"
B1 "SES" LIGHT	204	BRN/WHT	419	0*	B+
B2	201				
B3 DIAGNOSTIC/TEST	212	WHT/BLK	451	(5)	(5)
B4	209				
B5 SERIAL DATA	219	ORN	461	4.8 (3)	4.8 (3)
B6	217				
B7 TCC (A/T) SHIFT LIGHT (M/T)	203	TAN/BLK	422	A/T 0* M/T B+	A/T 0* M/T B+
B8 BUFFERED SPEED OUT	202	DK GRN	389	B+	B+
B9	211				
B10 ISOLATED IGNITION FEED	210	PNK/BLK	439	B+	B+
B11	218				
B12	208				
B13	205				
B14	216				
B15	213				
B16	222				
B17	220				
B18	207				
B19	206				
B20	215				
B21	214				
B22	221				

**\*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) INCREASES WITH VEHICLE SPEED (MEASURE ON A/C SCALE).
- (2) NORMAL OPERATING TEMPERATURE.
- (3) VARIES.
- (4) 12 VOLTS FIRST TWO SECONDS.
- (5) VARIES WITH TEMPERATURE.
- \* LESS THAN 1 VOLT.



**ECM CONNECTOR B WHITE**

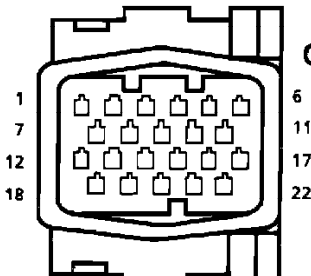
5-17-91  
MS 11917

1992 "W" CARLINE		22 PIN ECM CONNECTOR			3.4L (VIN X)	
* USE T-100 YELLOW BREAKOUT BOX (BOB)					RPO: LQ1	
ECM PIN/FUNCTION	BOB PIN #	WIRE COLOR	CKT #	VOLTAGE		
				KEY "ON"	ENG "RUN"	
C1	304					
C2	MAG. VSS SIGNAL LOW	PPL	401	0*	(1)	
C3	DIS BYPASS	TAN/BLK	424	0*	5	
C4	IAT SENSOR SIGNAL	TAN	472	(5)	(5)	
C5	SENSOR GROUND	BLK	802	0*	0*	
C6	GROUND	BLK/WHT	450	0*	0*	
C7	+ 5 VOLT REFERENCE (MAP)	GRY	474	5	5	
C8	MAG. VSS SIGNAL HIGH	YEL	400	0*	(1)	
C9	EST CONTROL	WHT	423	0*	1.3 (3)	
C10	SENSOR GROUND	BLK	808	0*	0*	
C11						
C12	+ 5 VOLT REFERENCE (TPS)	GRY	416	5	5	
C13	EGR SOLENOID #3	RED	699	B +	B +	
C14						
C15	TPS SIGNAL	DK BLU	417	.88	.88	
C16	COOLANT TEMPERATURE SIGNAL	YEL	410	(5)	(5)	
C17	A/C REQUEST	LT GRN	86	A/C REQUEST 0*	A/C "ON" B +	
C18						
C19						
C20	4 <sup>th</sup> GEAR SIGNAL	LT BLU	446	0*	0*	
C21	A/C PRESSURE SIGNAL	DK BLU	732	A/C OFF 0* A/C ON 12V	A/C OFF 0* A/C ON 12V	
C22	MAP SIGNAL	LT GRN	432	4.75	(3)	

**\*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) INCREASES WITH VEHICLE SPEED (MEASURE ON A/C SCALE).  
(2) NORMAL OPERATING TEMPERATURE.  
(3) VARIES.  
(4) 12 VOLTS FIRST TWO SECONDS.  
(5) VARIES WITH TEMPERATURE.  
\* LESS THAN 1 VOLT.



**ECM CONNECTOR C GREEN**

5-17-91  
MS 1191B

Control Module Connector ID And Pin/Voltage Reference Chart (3 Of 4)

## 1992 "W" CARLINE

## 22 PIN ECM CONNECTOR

3.4L (VIN X)

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

RPO: LQ1

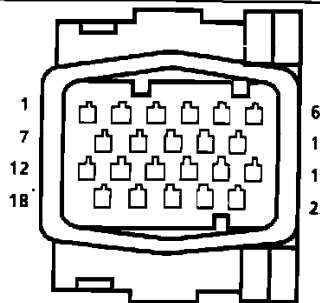
ECM PIN/FUNCTION	BOB PIN #	WIRE COLOR	CKT #	VOLTAGE	
				KEY "ON"	ENG "RUN"
D1	404				
D2	401				
D3 INJECTOR DRIVER (1,3,5)	412	DK BLU	467	B +	B +
D4 GROUND	409	BLK/WHT	450	0*	0*
D5	419				
D6 TRANSAXLE MODE SWITCH	417	DK BLU	1493	B +	B +
D7 FUEL PUMP RELAY DRIVER	403	DK GRN/WHT	465	0* (4)	B +
D8	402				
D9 INJECTOR DRIVER (2,4,6)	411	DK BLU	467	B +	B +
D10 GROUND	410	TAN/WHT	551	0*	0*
D11 P/N SWITCH (A/T)	418	ORN/BLK	434	0*	0*
D12 GROUND	408	TAN/WHT	551	0*	0*
D13 DIS REFERENCE HIGH	405	PPL/WHT	430	0*	2.3 (3)
D14	416				
D15	413				
D16 P/S PRESSURE SIGNAL	422	LT BLU/ORN	495	B +	B +
D17 BATTERY FEED	420	ORN	480	B +	B +
D18	407				
D19 DIS REFERENCE LOW	406	BLK/RED	453	0*	0*
D20	415				
D21	414				
D22 MANUAL TRANSMISSION CLUTCH SWITCH	421	PNK	90	0*	DEPRESSED B +
D22 1 <sup>st</sup> GEAR SIGNAL	421	RED	1457	0*	0*

**\*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) INCREASES WITH VEHICLE SPEED (MEASURE ON A/C SCALE).  
 (2) NORMAL OPERATING TEMPERATURE.  
 (3) VARIES.  
 (4) 12 VOLTS FIRST TWO SECONDS.  
 (5) VARIES WITH TEMPERATURE.  
 \* LESS THAN 1 VOLT.



**ECM  
CONNECTOR D  
BLUE**

6-17-91  
MS 11919