

1990 Dodge Dakota

ELECTRICAL WIRING DIAGRAMS

INDEX

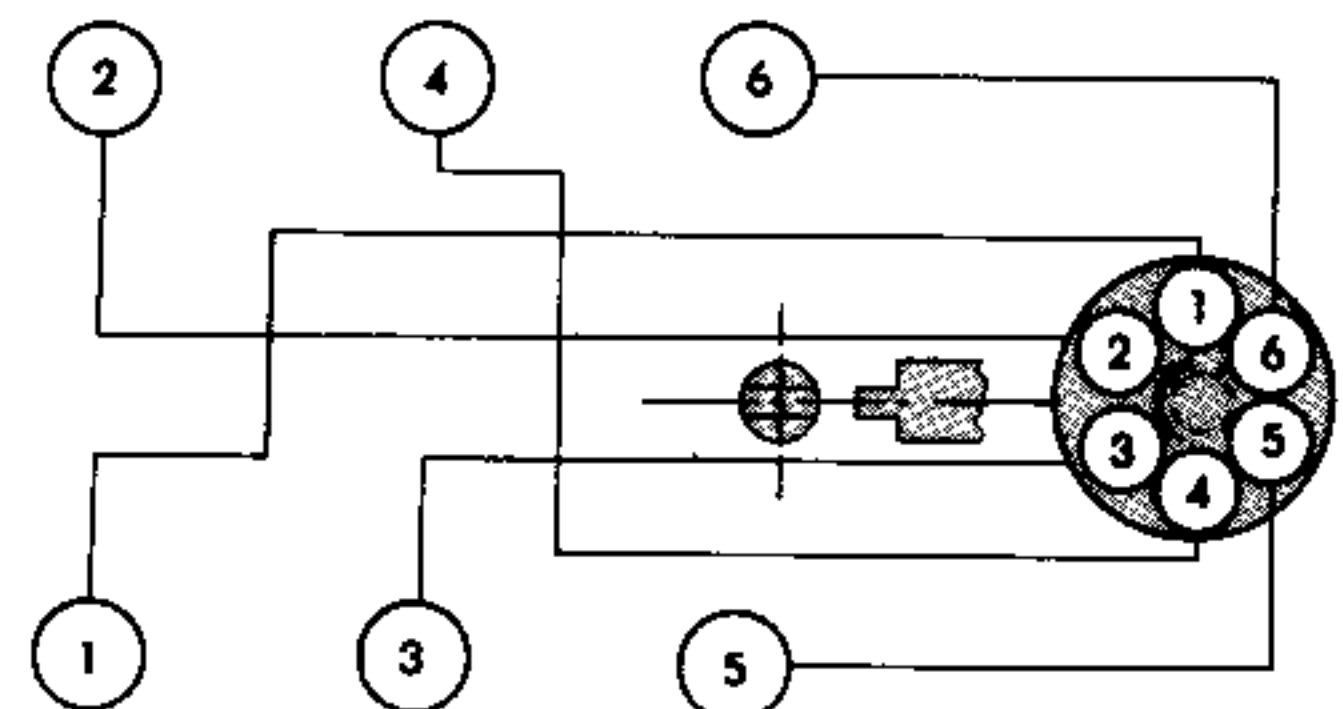
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MASTER WIRING DIAGRAMS

GENERAL INFORMATION

Master wiring diagrams contain the latest information available at time of publication. These diagrams contain various wires, wire routing, wire color codes, switches components, fuses, splices, connectors, connector cavities and other information except distributor secondary wiring, see (Figs. 1 and 2). Most main circuits are identified by a main circuit identification code. Some codes will not apply to all vehicles. Secondary codes are not shown. See main circuit codes. Each wire also contains a code (Fig. 3) which identifies main circuit identification, part of a main circuit, color of wire which is shortened to two letters see wire color code chart and if used a colored tracer identified by a slash(/) followed by two letters and an asterisk or an asterick by itself.

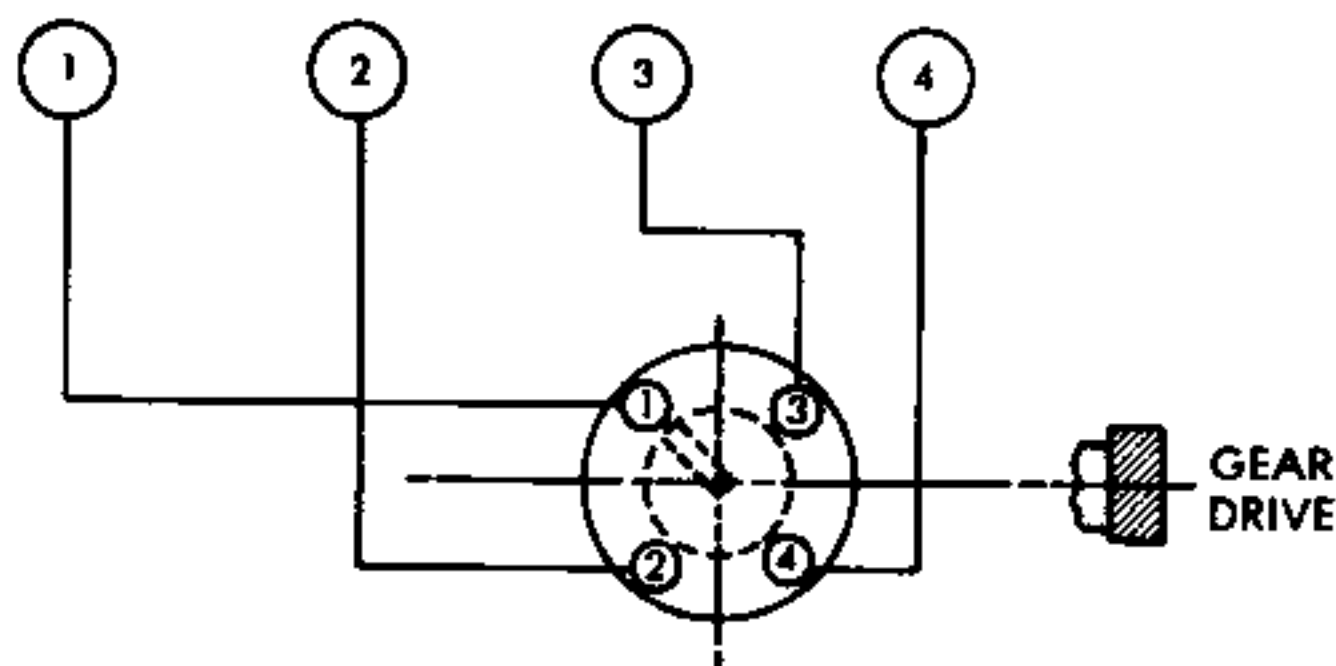
Wiring harnesses that have substitute wires of a different color then called out on wiring diagrams should have an identifying tape with specified wire color code (Fig. 4).



3.9L SIX-CYLINDER ENGINE
DISTRIBUTOR—CLOCKWISE ROTATION
FIRING ORDER 1-6-5-4-3-2

RN755

Fig. 2—Distributor Secondary Wiring 3.9L Engine



FIRING ORDER-1-3-4-2
DISTRIBUTOR-CLOCKWISE ROTATION

RP31

Fig. 1—Distributor Secondary Wiring 2.5L Engine

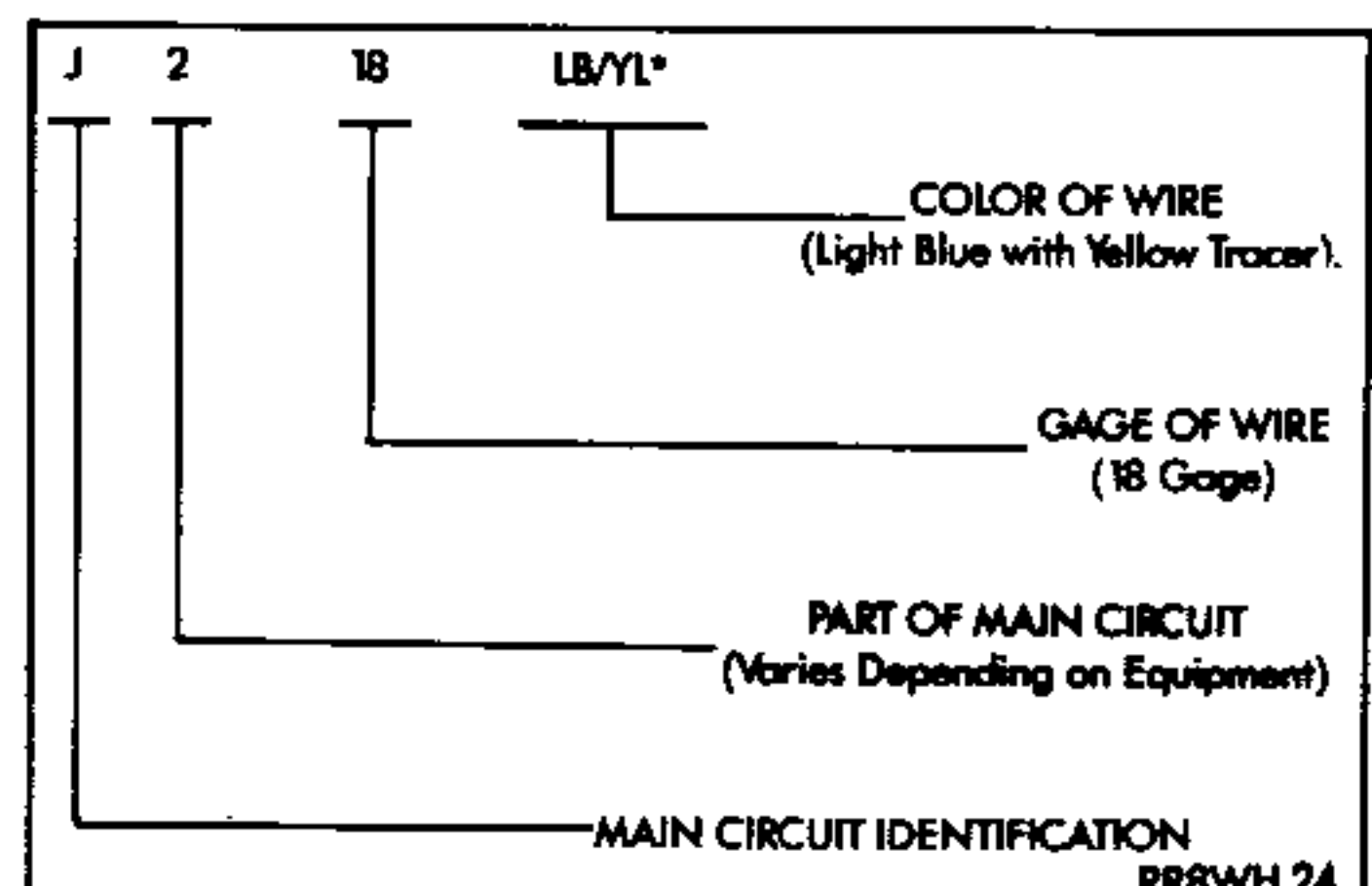


Fig. 3—Wire Color Codes Identification

LOCATING A SYSTEM OR COMPONENT

In order to locate a system or component use alphabetical index to determine diagram sheet number and turn to that sheet for wiring diagram.

Sheet numbers for each wiring diagram are located at lower right or left hand corner of each sheet. Page numbers at top of page do not apply to diagram sheets.

WIRE COLOR CODE CHART					
COLOR CODE	COLOR	STANDARD TRACER COLOR	COLOR CODE	COLOR	STANDARD TRACER CODE
BK	BLACK	WT	PK	PINK	BK OR WH
BR	BROWN	WT	RD	RED	WT
DB	DARK BLUE	WT	TN	TAN	WT
DG	DARK GREEN	WT	VT	VIOLET	WT
GY	GRAY	BK	WT	WHITE	BK
LB	LIGHT BLUE	BK	YL	YELLOW	BK
LG	LIGHT GREEN	BK	*	WITH TRACER	
OR	ORANGE	BK			

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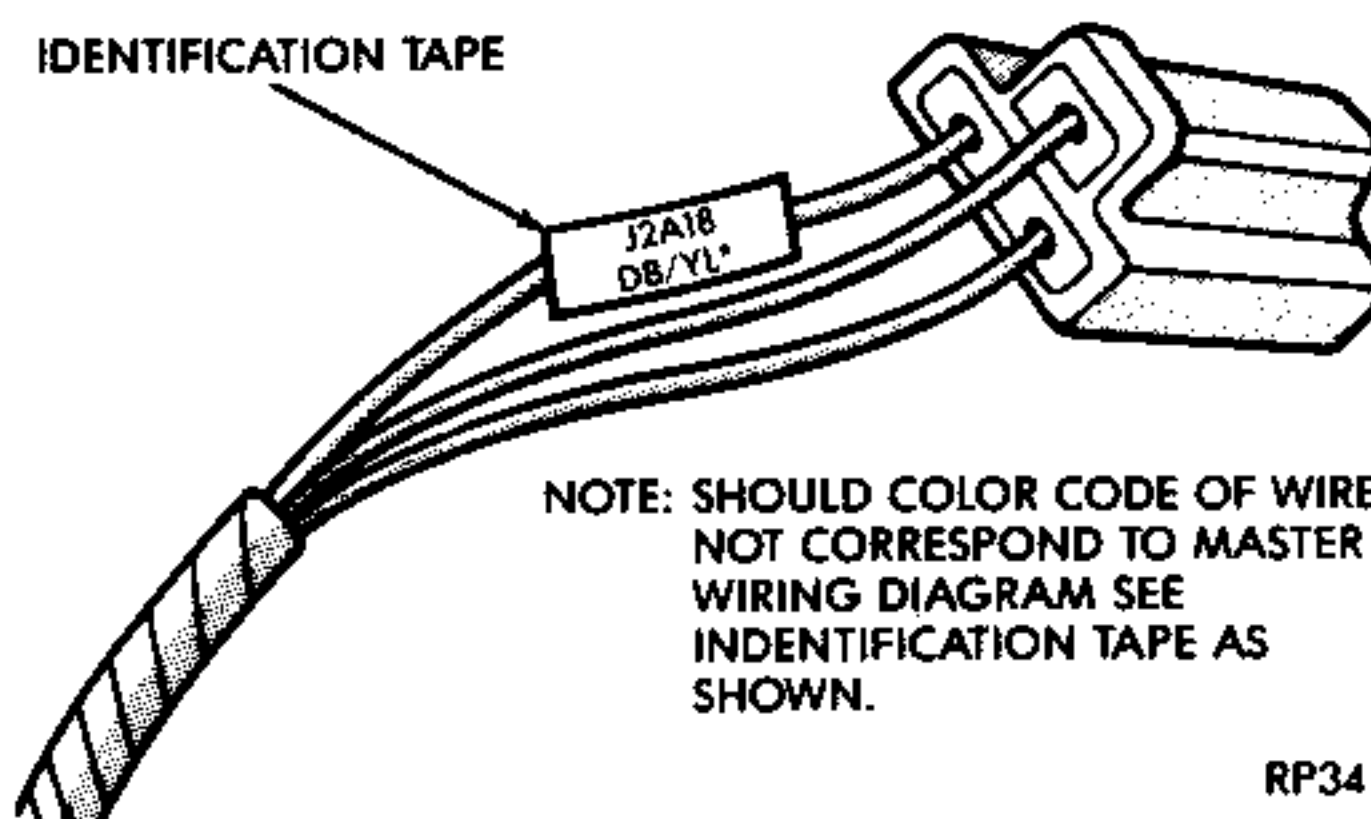


Fig. 4—Identification of Substitute Wiring Circuits

MAIN CIRCUIT IDENTIFICATION CODES

- | | |
|--|---|
| A1 Battery Positive Circuit. | L Lighting Circuit Feed (Exterior Lamps). |
| A2 Battery Negative Circuit. | M1 Lighting Circuit Feed (Interior Lamps). |
| B Back Up Lamp Circuit. | M2 Lighting Circuit Ground (Interior Lamps). |
| B3 Hazard Warning Flasher Feed. | P Brake Checking Circuit. |
| C Air Conditioning and Heater Circuits, Heated Rear Window, Radiator Fan Motor. | Q2 Accessory Buss Bar Feed (Fuse Block). |
| D Emergency, Stop Lamp and Turn Signal Circuits, Lamp Outage, Brake Pad Sensor, Diagnostic Connector. | Q3 Battery Buss Bar Feed (Feed). |
| E Instrument Panel Cluster, Switches and Illumination Circuits. | R3 Alternator Circuit to Electronic Regulator (Field). |
| F Power Assist Systems, Seats, Windows, and Door Locks. | R6 Alternator Circuit Feed. |
| G Gauges, Warning Lamp Circuits and Voice Alert. | S Starter Motor and Starter Relay Circuit. |
| H Horn Circuit. | T Tachometer. |
| J1 Ignition Switch Feed Circuit. | V Windshield Wiper and Washer Circuit. |
| J2 Ignition System Run Circuit. | W Power Window Circuit. |
| J3 Starter Relay to Ballast Resistor. | X Grounds For Radio Speakers, Cigar Lighter, Lamps, Clock, Speed Control, Power Antenna, Power Amplifier, Power Windows, Power Mirrors, Deck Lid Release and Door Locks. |
| J10 Ignition Switch Accessory Feed. | Y5 EFI or Turbo Ground. |
| K Logic and Power Modules. | Z1 Turbo Fuel Injectors EFI and Turbo Ignition Coil and Fuel Pump Motor. |

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SPLICE LOCATIONS

Splice locations are indicated on master wiring diagrams by a diamond with splice circuit code within it (example 1). If there is more than one splice per circuit splice code a small box will be connected to the diamond with the splice number in it (example 2) (Fig. 5).



Fig. 5—Wiring Splice Examples

In order to locate a particular splice determine splice number from master wiring diagram. Refer to pictorial splice index to find figure number then turn to that figure to determine splice location within a wiring harness (Fig. 6).

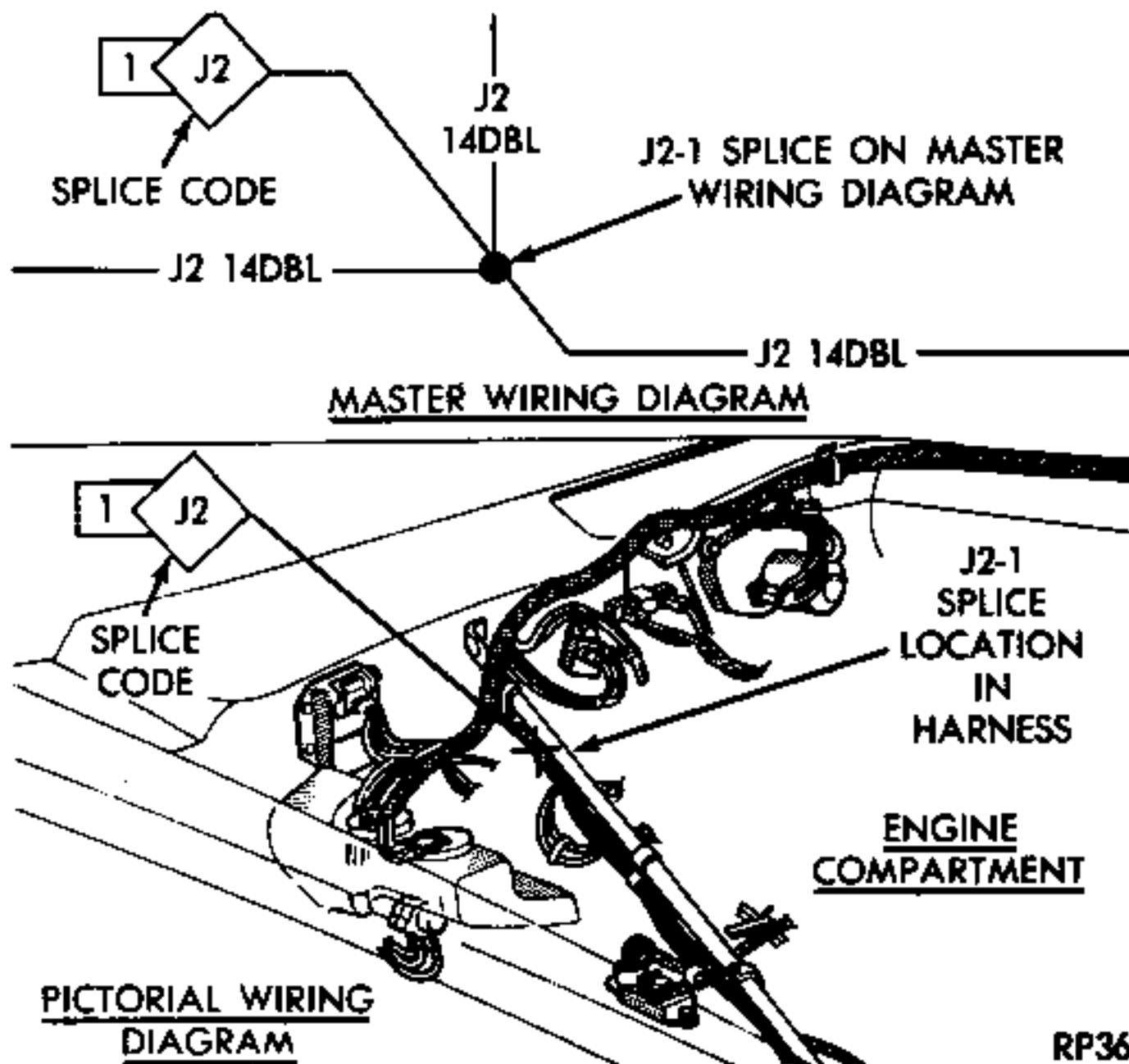


Fig. 6—Locating a Wiring Harness Splice

FUSIBLE LINKS

Vehicle wiring harnesses are equipped with fusible links to protect against harness damage in the event of a short in the electrical system.

Fusible links are color coded as to wire gauge size. See fusible link chart.

FUSIBLE LINK REPLACEMENT

CAUTION: Do not replace blown fusible links with standard wire. Only fusible type wire with hypalon

insulation can be used or damage to the electrical system will occur. Also make sure correct gauge of wiring is used. Refer to Master Wiring Diagrams for proper gauge size.

(1) When a fusible link blows it is very important to find out why it blew. They are placed in vehicle electrical systems for protection against dead shorts to ground which can be caused by electrical component failure or various wiring failures. **Do not just replace fusible link to correct problem.**

(2) When replacing fusible links that are connected to battery terminal of starter relay, they are to be serviced with the same type of prefabricated fusible link.

All other fusible links are replaced with a piece of fusible link wire cut from bulk reels. Care must be taken that the same gauge and color wire as the original fusible link be used (see Fusible Link Chart).

FUSIBLE LINK CHART		
Wire Gauge	Color Code	Color
12 Ga.	BK	Black
14 Ga.	RD	Red
16 Ga.	DB	Dark Blue
18 Ga.	GY	Gray
20 Ga.	OR	Orange
22 Ga.	WT	White

Multiple Fusible Link Replacement

- (1) Disconnect negative battery cable.
- (2) Cut off any remaining portion of blown fusible link flush with multiple connection insulator, taking care not to cut into other fusible links (Fig. 7).
- (3) Remove 1 inch of insulation from main harness wire about 1 inch from multiple connection insulator (Fig. 7).

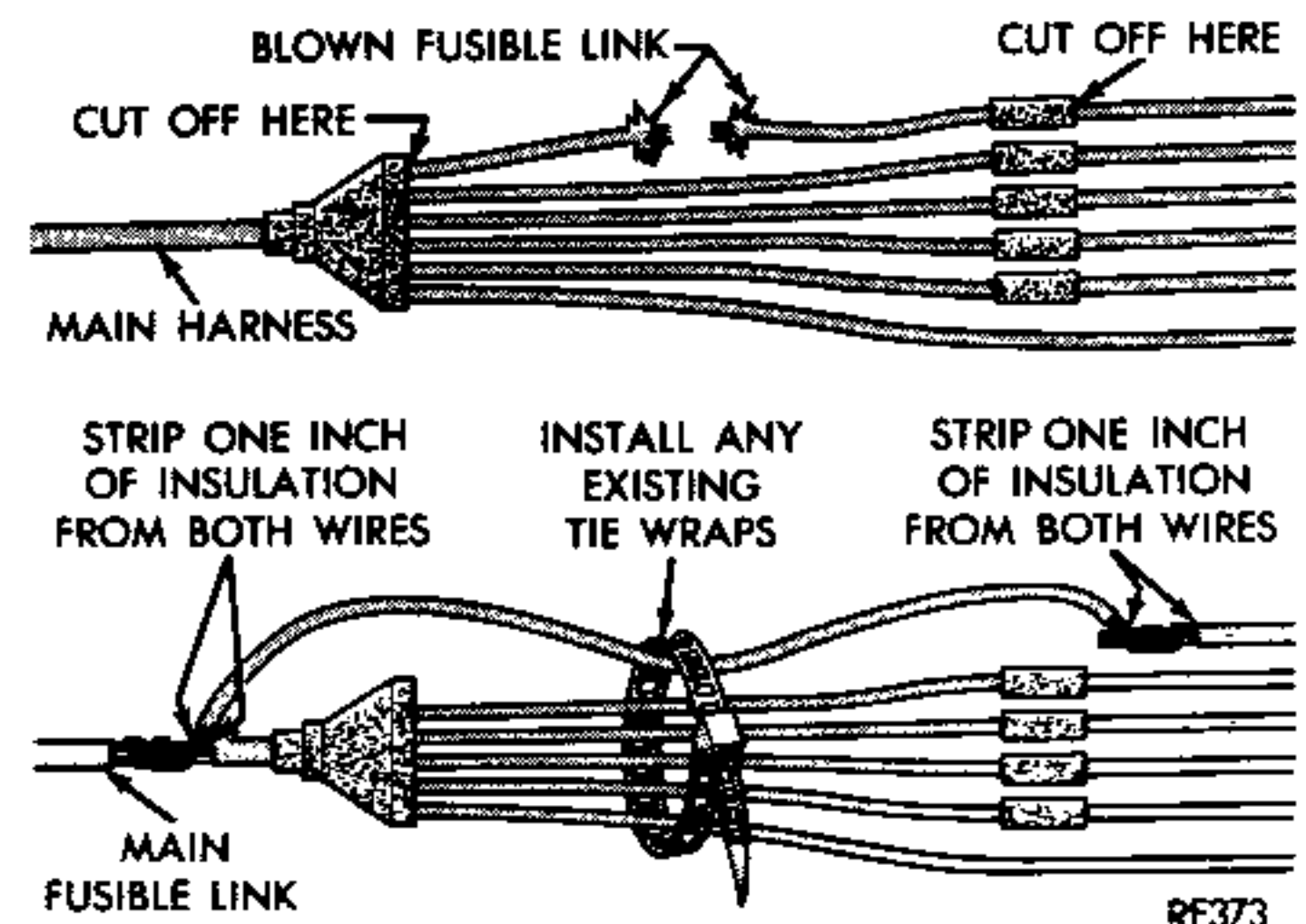


Fig. 7—Fusible Link Repair

(4) Remove 1 inch of insulation from one end of new fusible link and wrap it around main harness wire that was stripped (Fig. 7).

(5) Heat splice with a high temperature soldering gun, apply rosin type solder until it flows freely, and remove soldering gun. **Do not use acid core solder.**

(6) Allow to cool and wrap new splice with a minimum of 3 layers of suitable electrical tape.

Single Fusible Link Replacement

(1) Disconnect negative battery cable.

(2) Cut fusible link including connection insulator from main harness wire (Fig. 7).

(3) Remove 1 inch of insulation from both new fusible link and main harness wire and wrap together (Fig. 7).

(4) Heat splice with a high temperature soldering gun, apply rosin type solder until it flows freely and remove soldering gun. **Do not use acid core solder.**

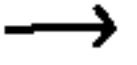
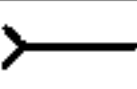
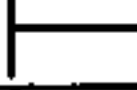
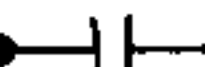
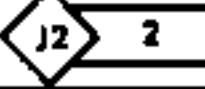
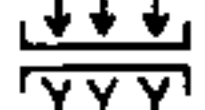
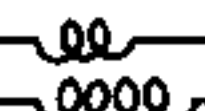
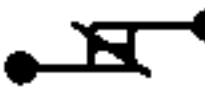
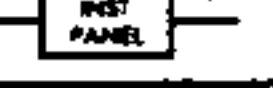
(5) Allow to cool and wrap new splice with a minimum of 3 layers of suitable electrical tape.

SYMBOLS, FUSES AND CONNECTORS

Various symbols are used on wiring diagrams. These symbols can be identified by referring to symbol identification (Fig. 8).

Additional fuse and connector information may be found on (Fig. 9).

CAUTION: When replacing a blown fuse, it is important to replace it with a fuse having the correct amperage rating. The use of a fuse with a rating other than indicated may result in a dangerous electrical overload. If a proper rated fuse continues to blow, it indicates a problem that should be corrected

LEGEND OF SYMBOLS USED ON WIRING DIAGRAMS			
	POSITIVE		CONNECTOR
	NEGATIVE		MALE CONNECTOR
	GROUND		FEMALE CONNECTOR
	FUSE		DENOTES WIRE CONTINUES ELSEWHERE
	GANG FUSES WITH BUSS BAR		DENOTES WIRE GOES TO ONE OF TWO CIRCUITS
	CIRCUIT BREAKER		SPLICE
	CAPACITOR		SPLICE IDENTIFICATION
	OHMS		THERMAL ELEMENT
	RESISTOR		TIMER
	VARIABLE RESISTOR		MULTIPLE CONNECTOR
	SERIES RESISTOR		OPTIONAL WIRING WITH WIRING WITHOUT
	COIL		"Y" WINDINGS
	STEP UP COIL		DIGITAL READOUT
	OPEN CONTACT		SINGLE FILAMENT LAMP
	CLOSED CONTACT		DUAL FILAMENT LAMP
	CLOSED SWITCH		L.E.D. — LIGHT EMITTING DIODE
	OPEN SWITCH		THERMISTOR
	CLOSED GANGED SWITCH		GAUGE
	OPEN GANGED SWITCH		SENSOR
	TWO POLE SINGLE THROW SWITCH		FUEL INJECTOR
	PRESSURE SWITCH		DENOTES WIRE GOES THROUGH BULKHEAD DISCONNECT
	SOLENOID SWITCH		DENOTES WIRE GOES THROUGH STEERING COLUMN CONNECTOR
	MERCURY SWITCH		DENOTES WIRE GOES THROUGH INSTRUMENT PANEL CONNECTOR
	DIODE OR RECTIFIER		DENOTES WIRE GOES THROUGH GROMMET TO ENGINE COMPARTMENT
	BY-DIRECTIONAL ZENER DIODE		DENOTES WIRE GOES THROUGH GROMMET
	MOTOR		HEATED GRID ELEMENTS
	ARMATURE AND BRUSHES		

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Fig. 8—Legend

CAVITY	FUSE/ COLOR	ITEMS FUSED	CAVITY	FUSE/ COLOR	ITEMS FUSED																								
1	20 AMP YL	HAZARD FLASHERS	13	5 AMP TN	GAUGES, LOW FUEL RELAY, LOW OIL AND WASHER LAMP, EMISSION MAINTENANCE REMINDER LAMP, TRANS OIL, BRAKE WARNING, CHECK ENGINE, ANTI-LOCK, FUEL PACER, FOUR WHEEL DRIVE LAMPS, BUZZER, SPEED CONTROL																								
2	20 AMP YL	A/C CYCLING CLUTCH SWITCH BACK-UP LAMP FEED	14	5 AMP TN	DOME-GLOVE BOX-UNDERHOOD-COURTESY-READING-AND KEY-IN LAMPS, POWER MIRRORS, RADIO CLOCK MEMORY, IGNITION TIME DELAY RELAY																								
3	30 AMP C/BRKR SILVER CAN	POWER WINDOW LIFT MOTORS	15																										
4	30 AMP LG	A/C & HEATER BLOWER MOTOR	16	4 AMP PK	PANEL ILLUMINATION, CLUSTER, RADIO, A/C CONTROLS, ASH RECEIVER, OVERDRIVE SWITCH																								
5	20 AMP YL	PANEL ILLUMINATION CAV 16, PARK, TAIL, SIDE MARKER & LICENSE LAMPS CLOCK ELECTRONICS DISPLAY INTENSITY	FUSE BLOCK AND RELAY BANK HAZARD FLASHER TIME DELAY RELAY SEAT BELT BUZZER TURN SIGNAL FLASHER HORN RELAY																										
6	20 AMP YL	STOP LAMPS & BUZZER	<table><tr><th>AMPS</th><th>FUSE</th><th>COLOR CODE</th></tr><tr><td>3</td><td>VT</td><td>VIOLET</td></tr><tr><td>4</td><td>PK</td><td>PINK</td></tr><tr><td>5</td><td>TN</td><td>TAN</td></tr><tr><td>10</td><td>RD</td><td>RED</td></tr><tr><td>20</td><td>YL</td><td>YELLOW</td></tr><tr><td>25</td><td>NAT</td><td>NATURAL</td></tr><tr><td>30</td><td>LG</td><td>LIGHT GREEN</td></tr></table>			AMPS	FUSE	COLOR CODE	3	VT	VIOLET	4	PK	PINK	5	TN	TAN	10	RD	RED	20	YL	YELLOW	25	NAT	NATURAL	30	LG	LIGHT GREEN
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30	LG	LIGHT GREEN																											
7	20 AMP YL	HORNS, HORN RELAY, TACHOMETER																											
8	20 AMP YL	POWER DOOR LOCKS																											
9	10 AMP RD	RADIO																											
10	20 AMP YL	TURN SIGNALS, RWAL MODULE																											
11	20 AMP YL	WINDSHIELD WIPER & WASHER																											
12	15 AMP	CIGAR LIGHTER																											

FUSE BLOCK AND
RELAY BANK

HAZARD
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FUSE BLOCK AND
RELAY BANK

HAZARD
FLASHER

Fig. 9—Fuse Chart and Relay Bank

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COMPONENT IDENTIFICATION

INDEX

Splice Number	Fig.	Splice Number	Fig.
Battery and Starter Wiring 2.5L Engine	13	Engine Wiring and Component Identification	
Battery and Starter Wiring 3.9L Engine	14	3.9L Engine	19
Cab and Engine Compartment Grounds	5	Extended Cab Wiring and Component	
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Component Identification	12	Steering Column Component Identification	10
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Identification	11	Transmission Wiring	17
Engine Wiring and Component Identification		Underhood Lamp Wiring	15
2.5L Engine	18		

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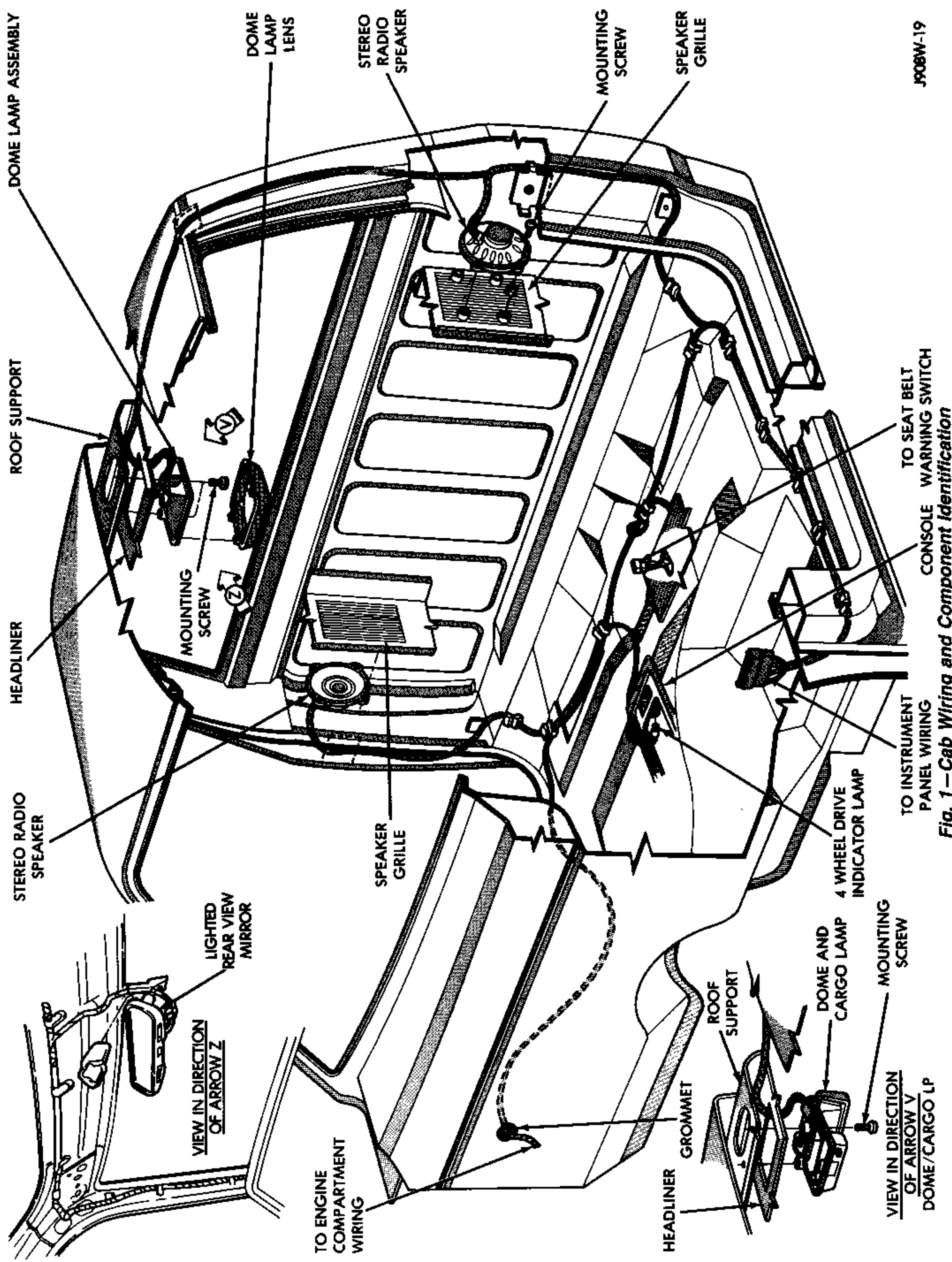


Fig. 1—Cab Wiring and Component Identification

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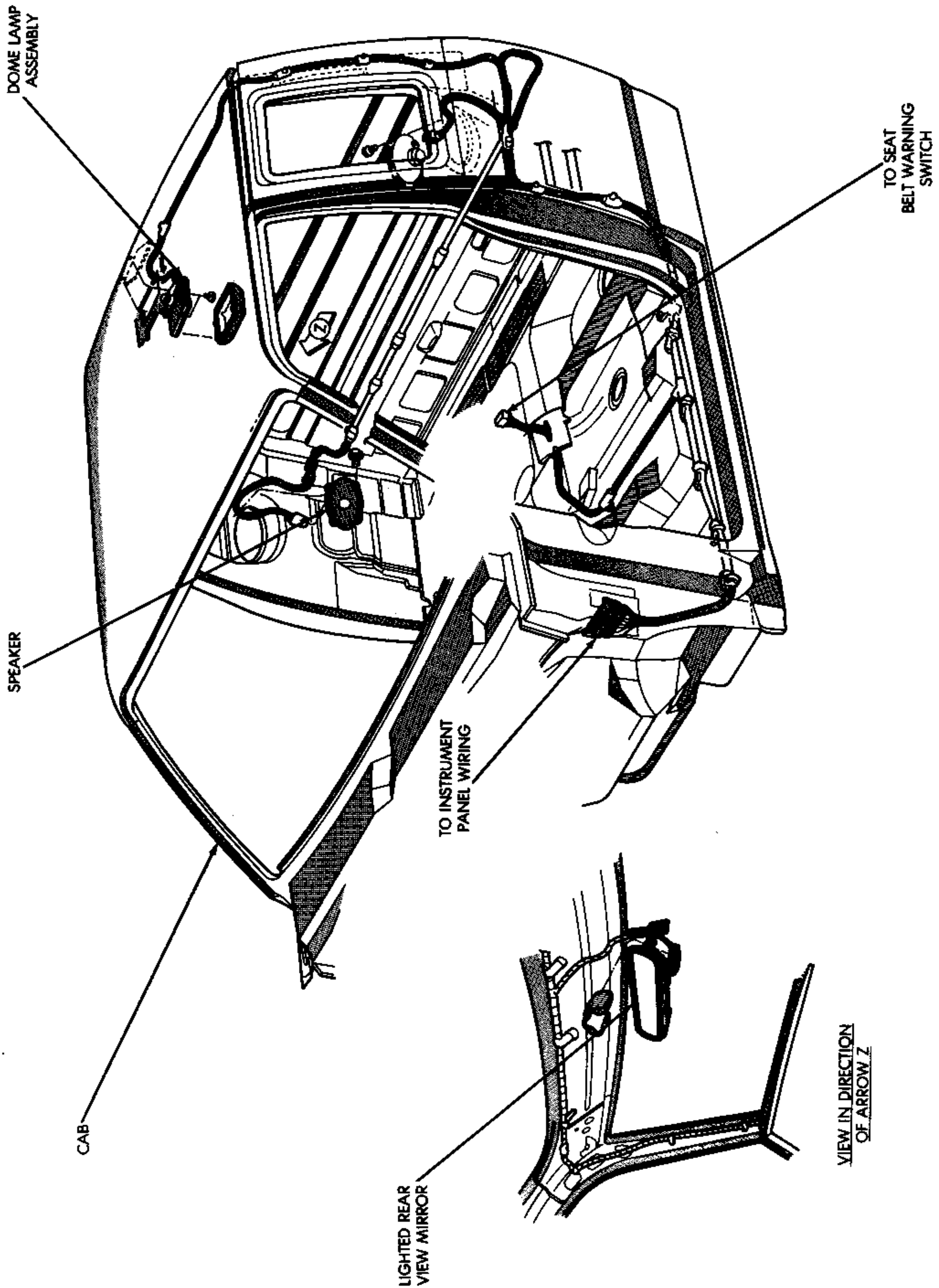
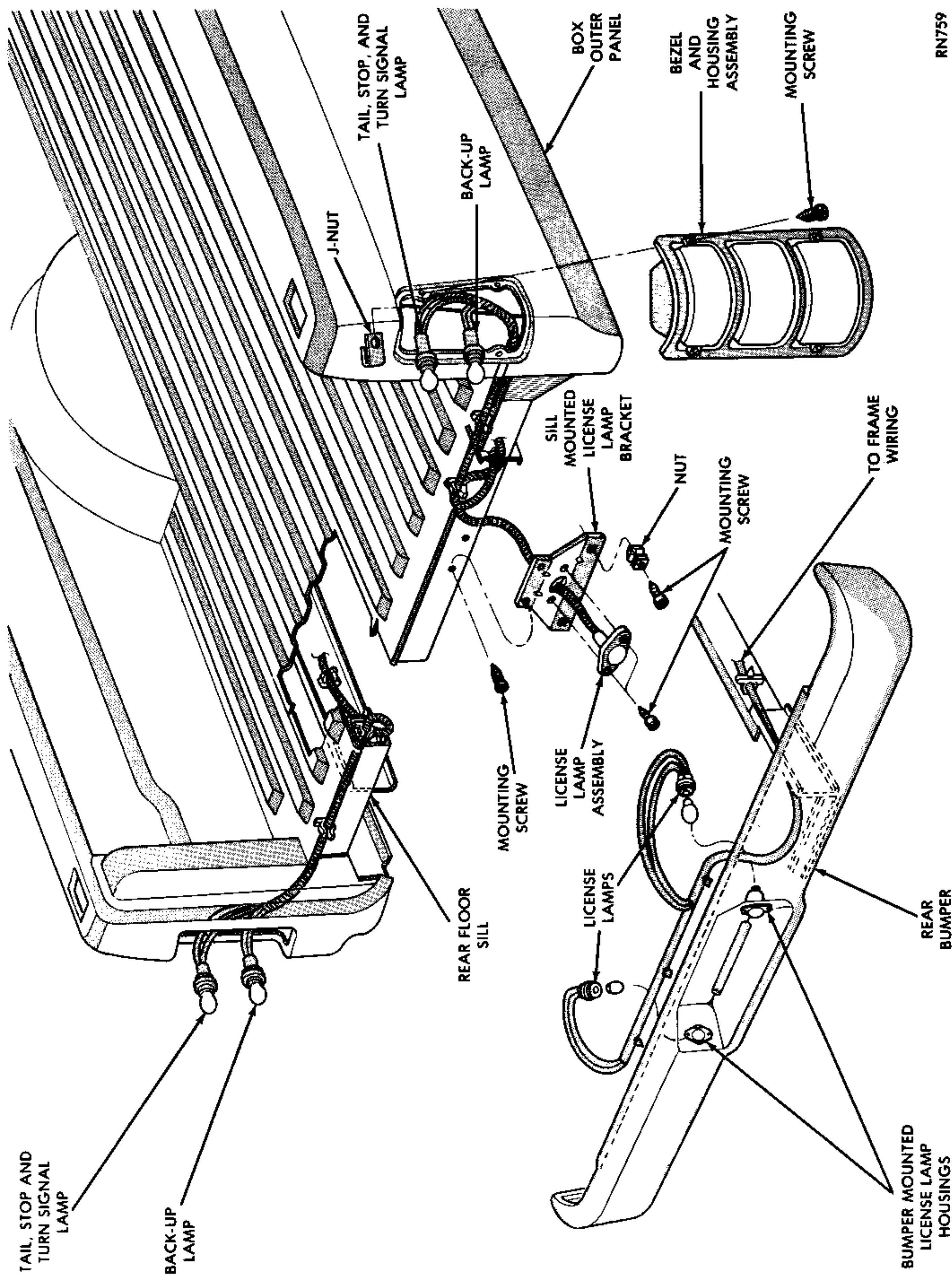


Fig. 2—Extended Cab Wiring and Component Identification



RN759

Fig 3—Cargo Box Wiring and Component Identification

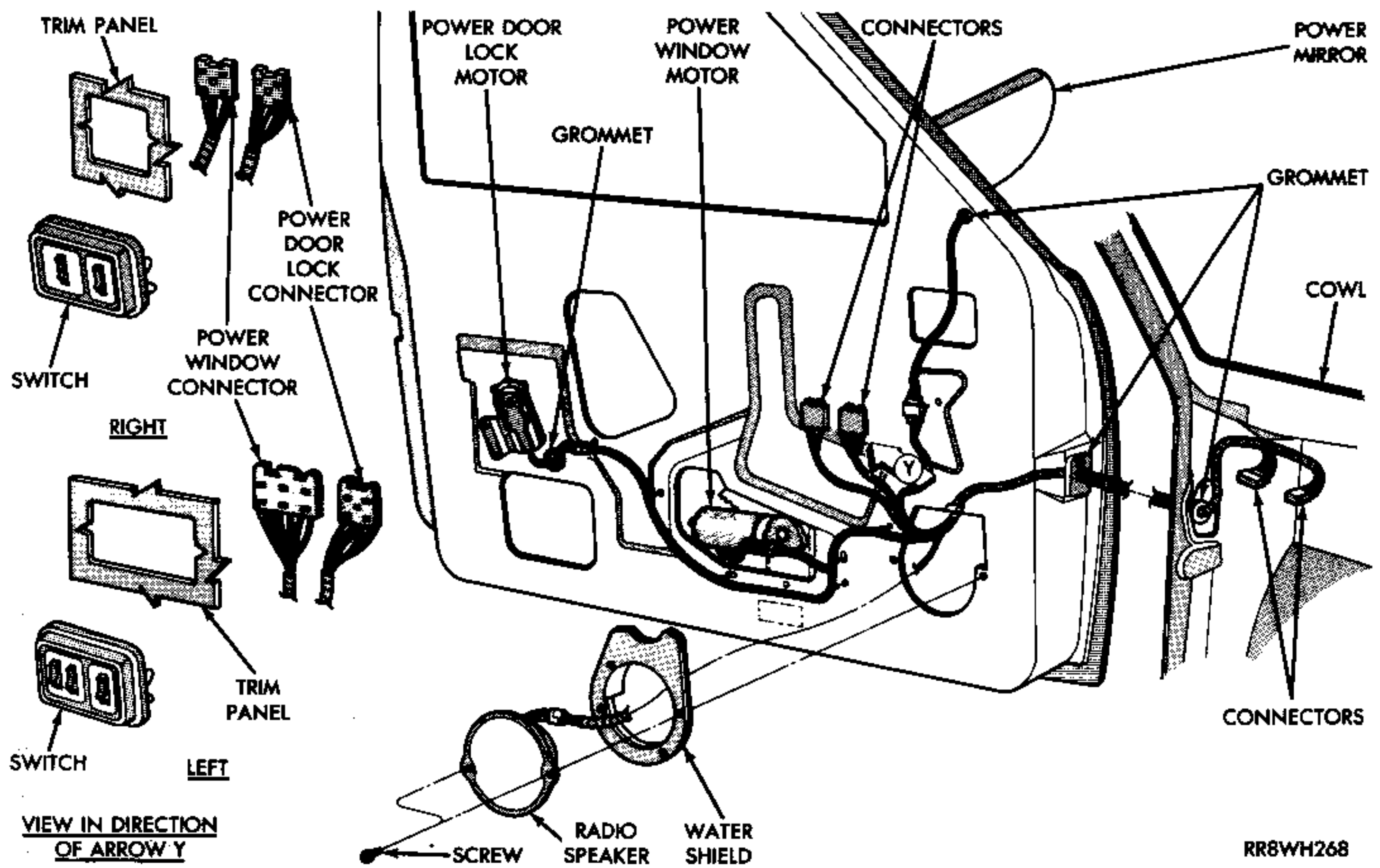


Fig. 4—Door Wiring and Component Identification

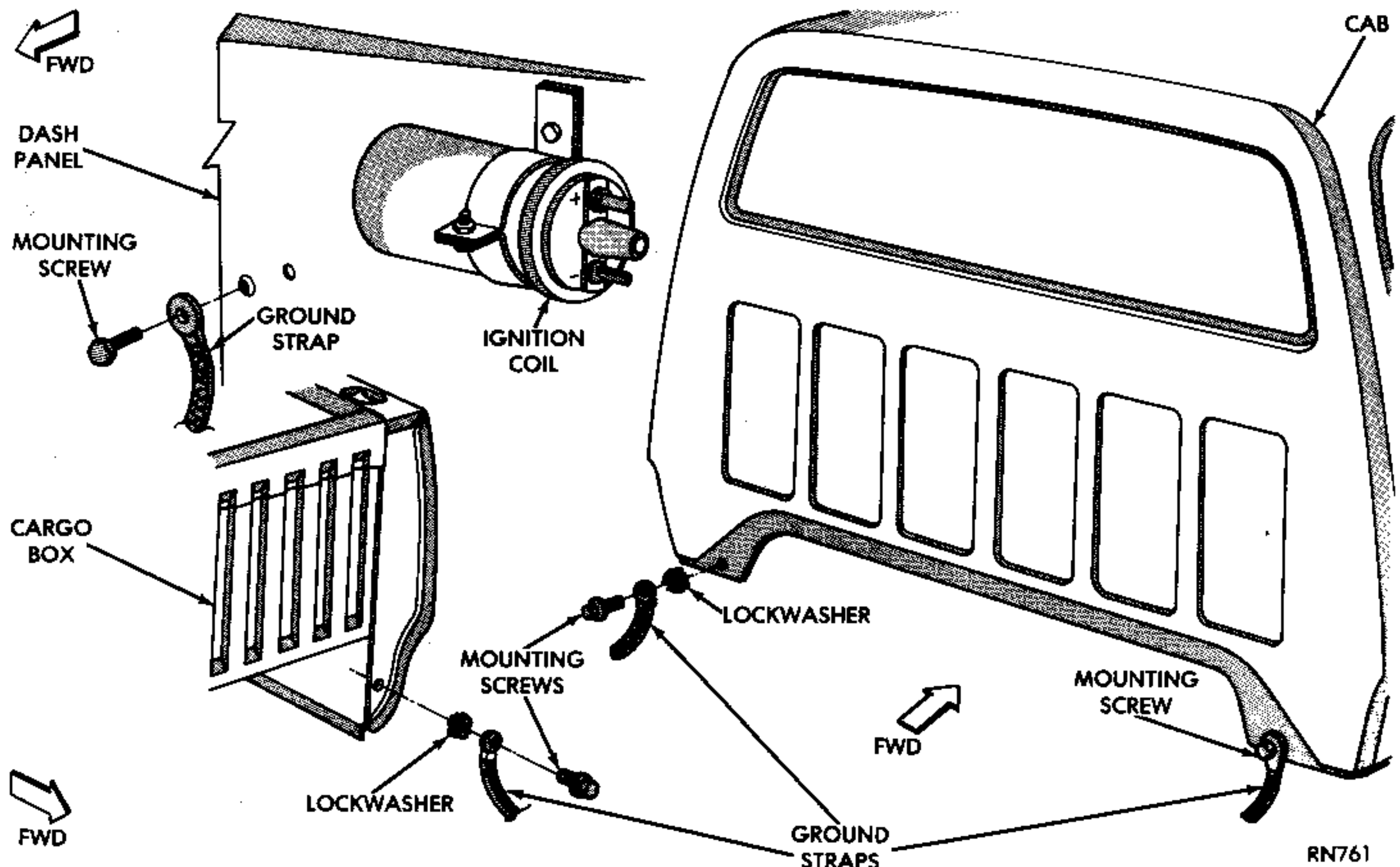
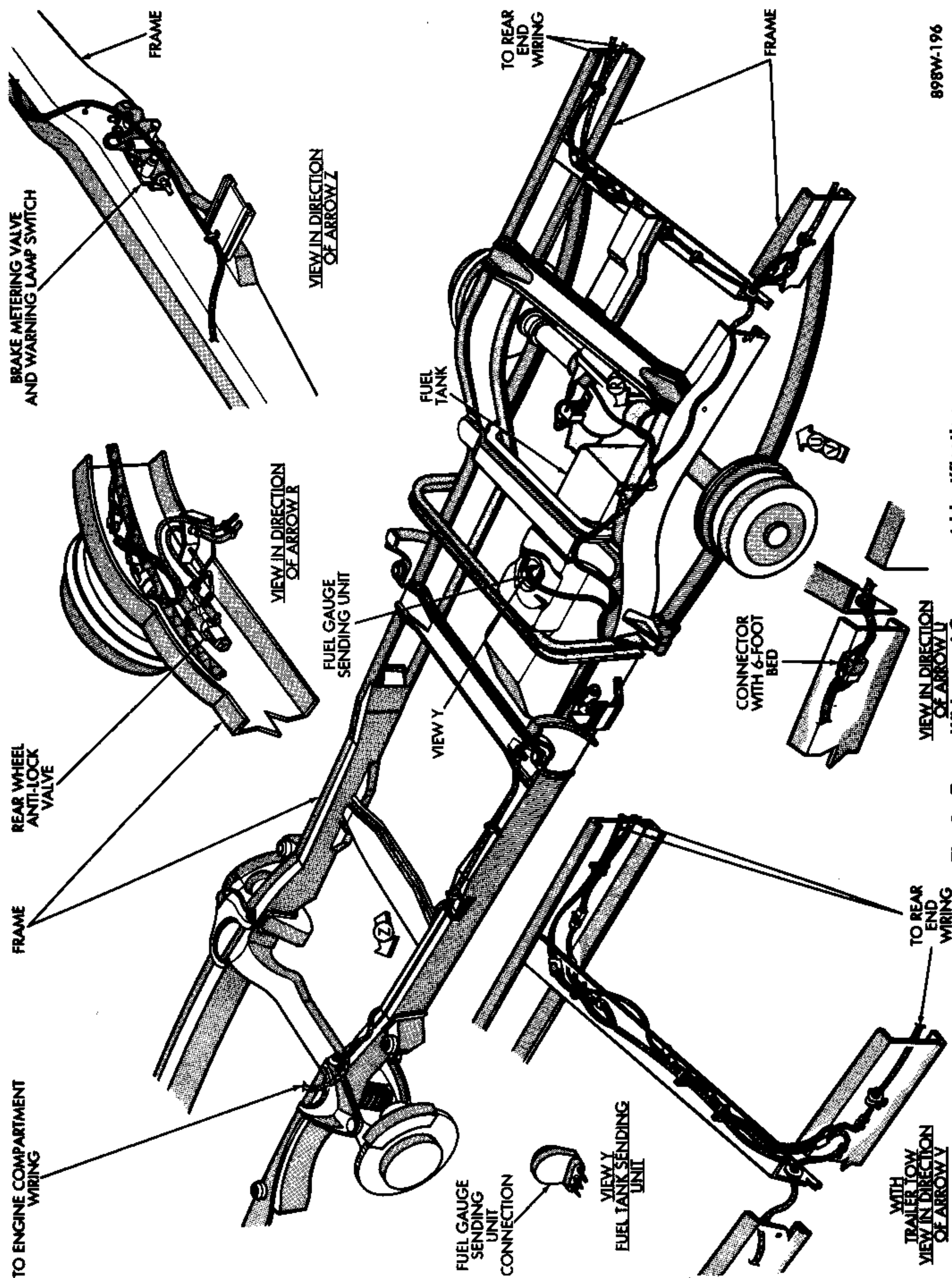
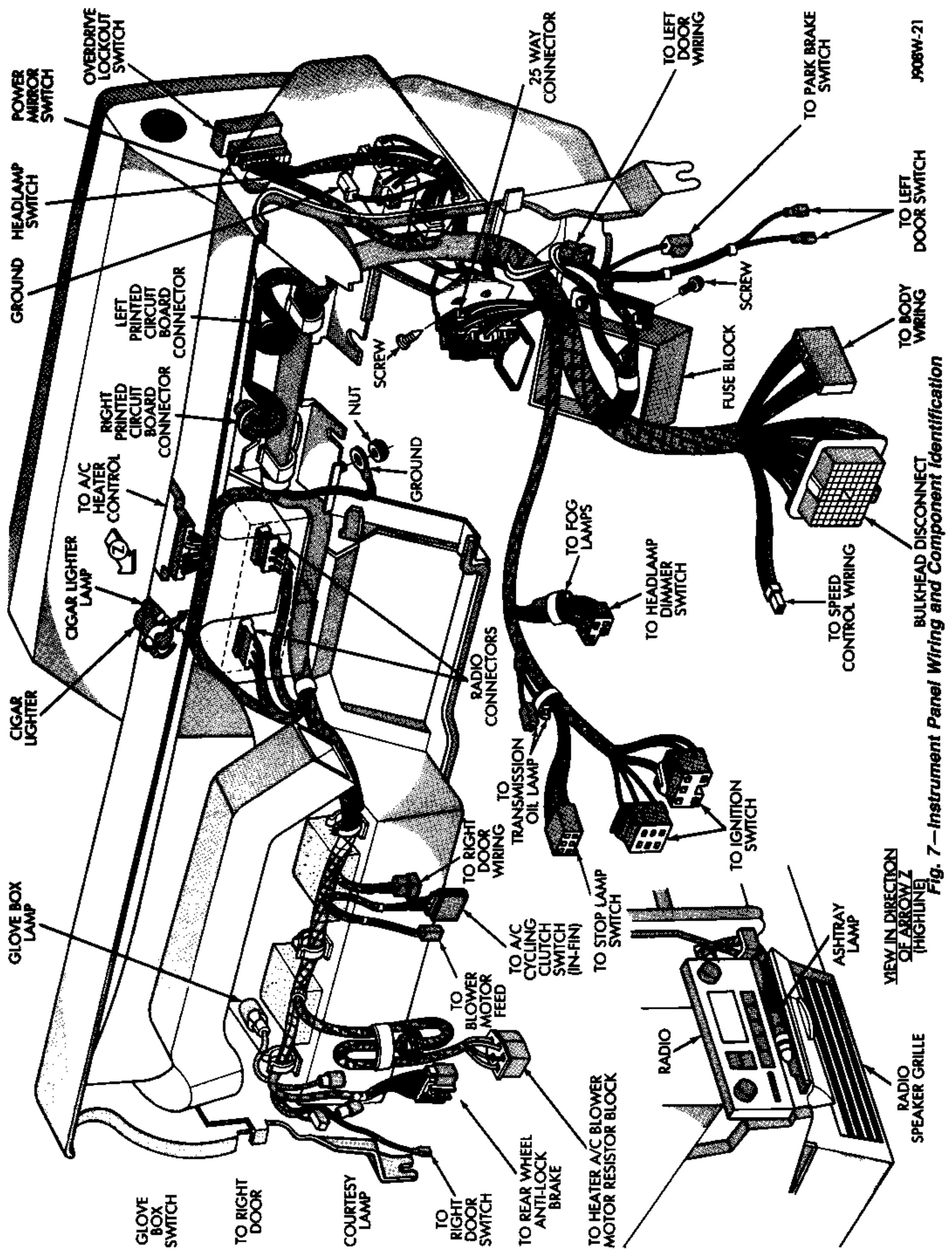


Fig. 5—Cab and Engine Compartment Grounds



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Fig. 6--Frame Wiring and Component Identification



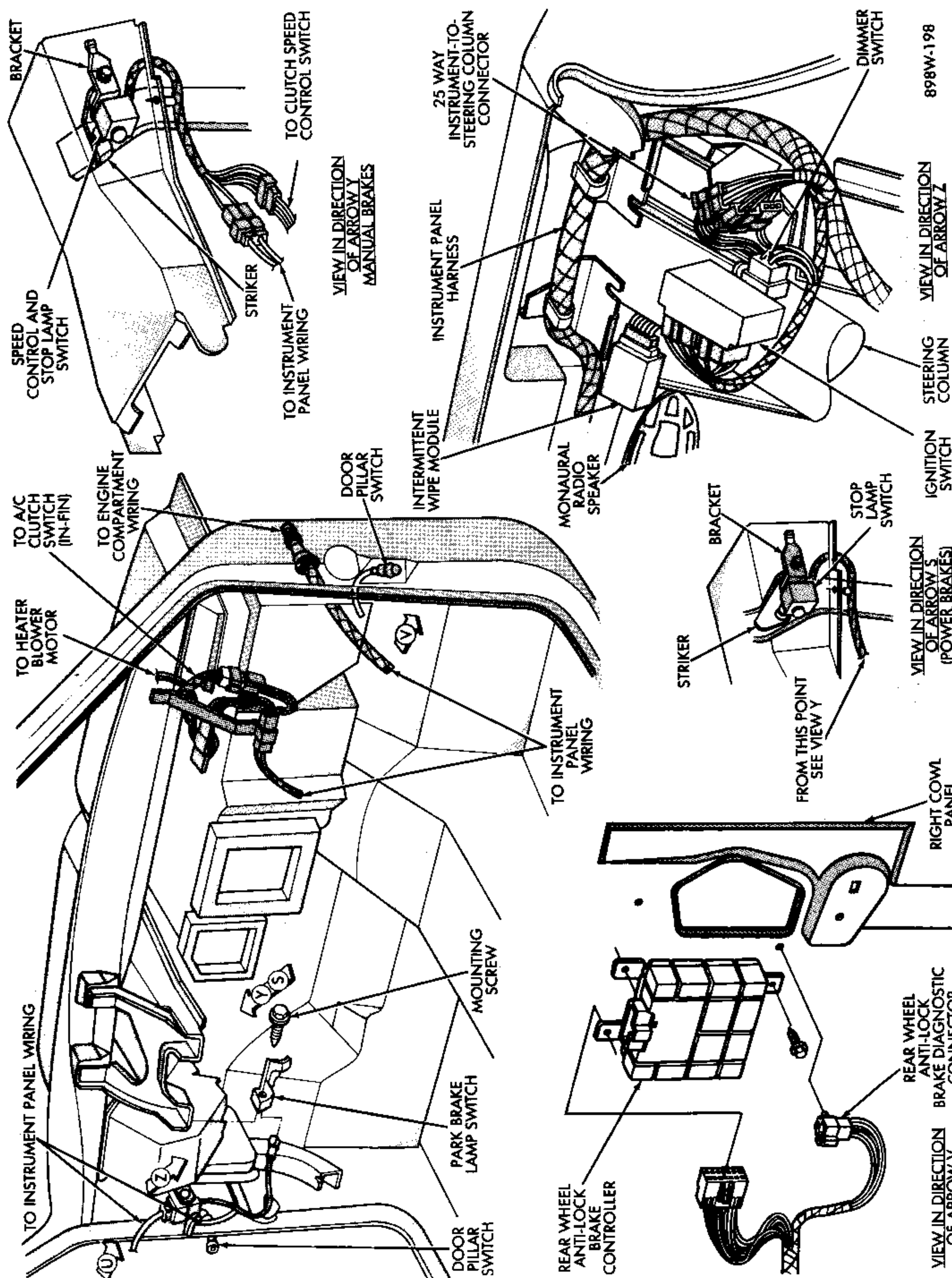
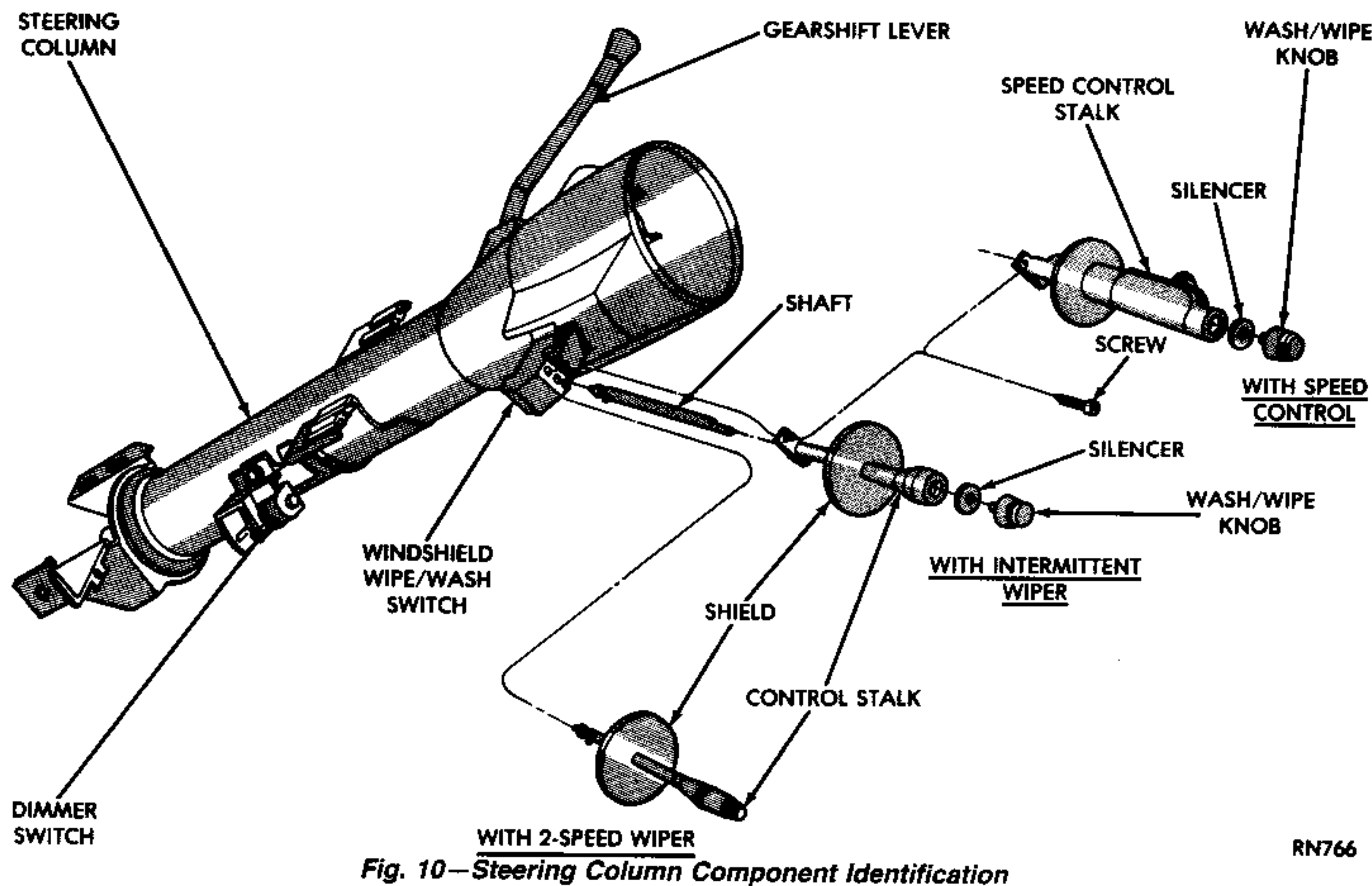
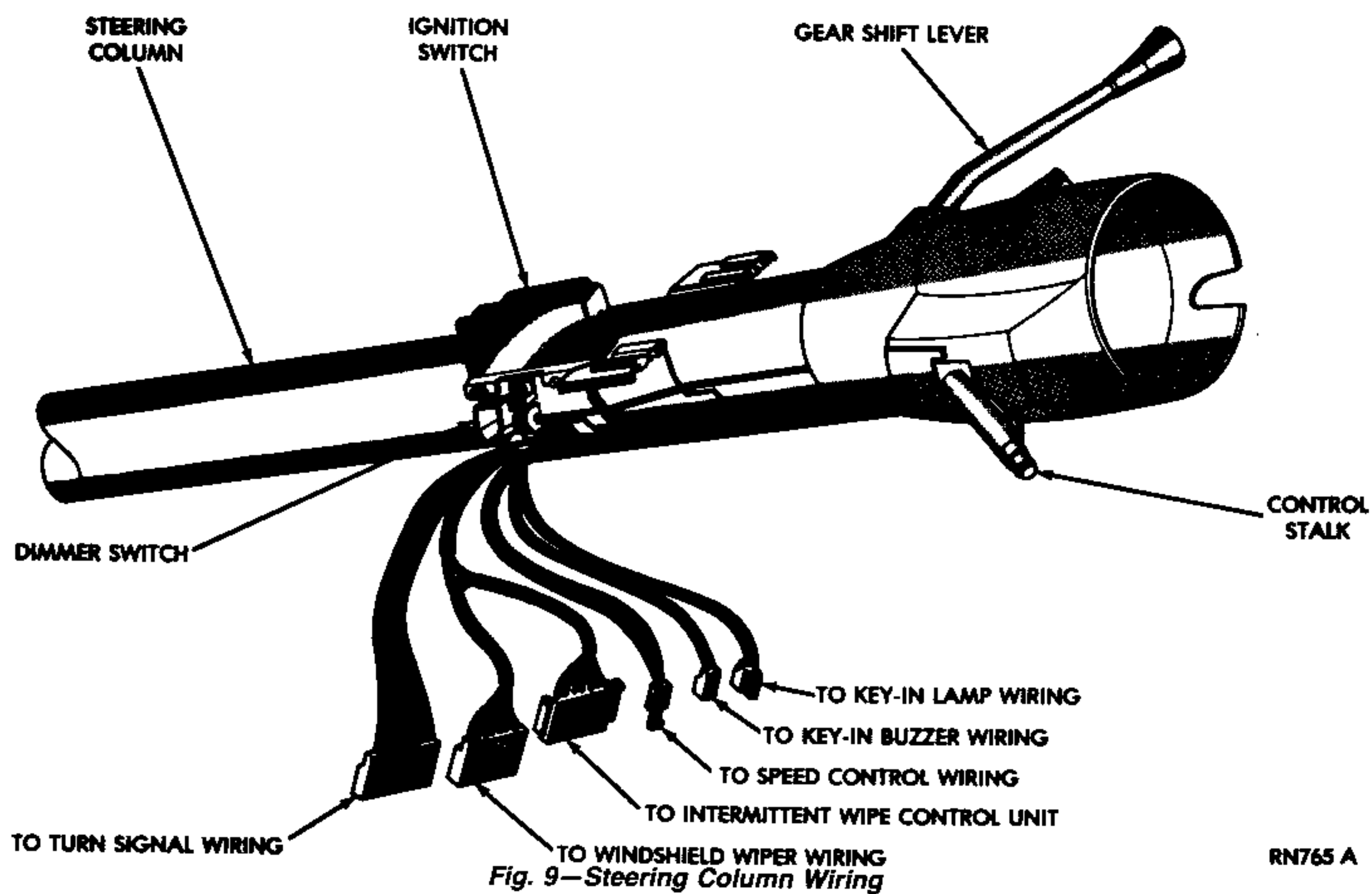


Fig. 8—Cowl Wiring and Component Identification



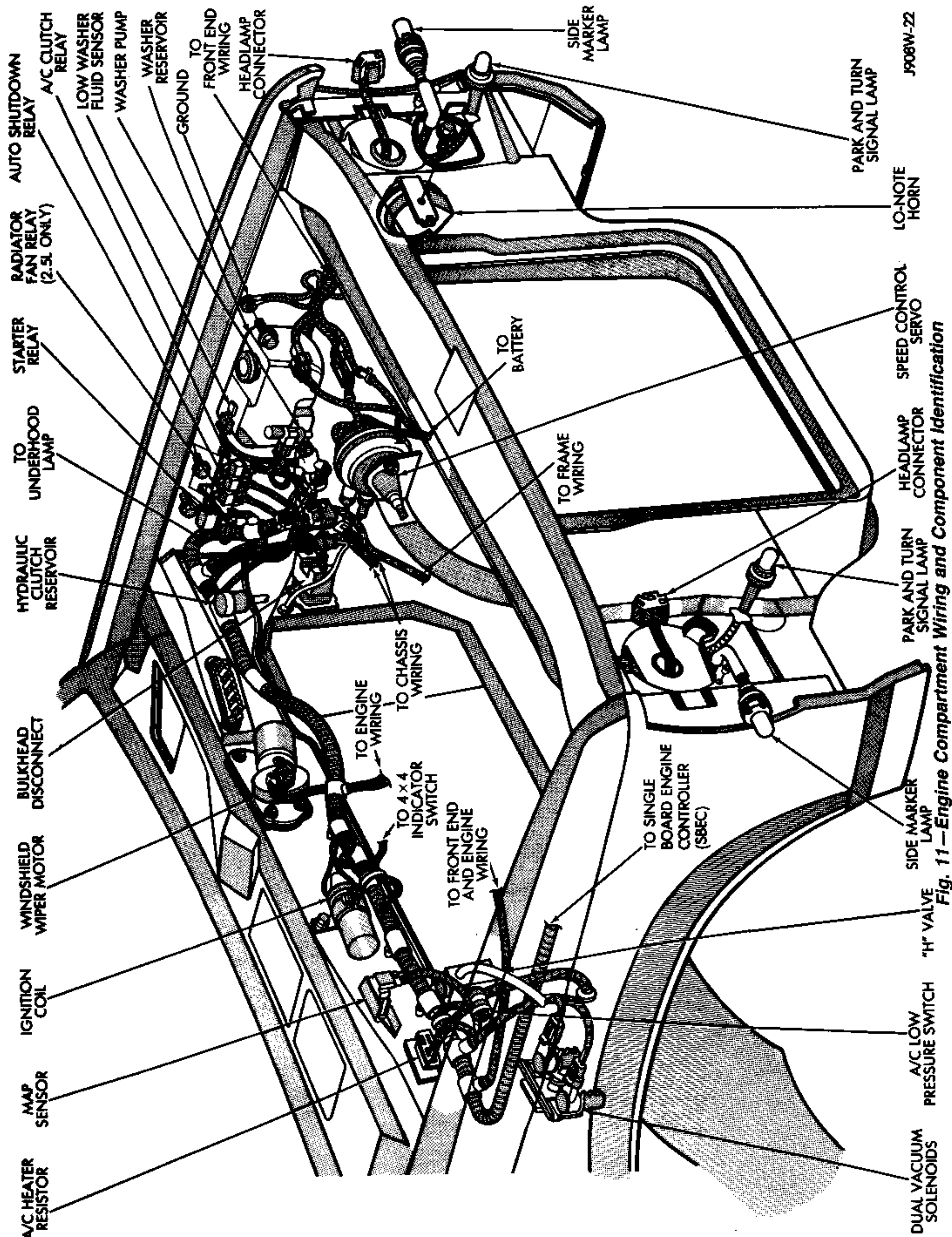
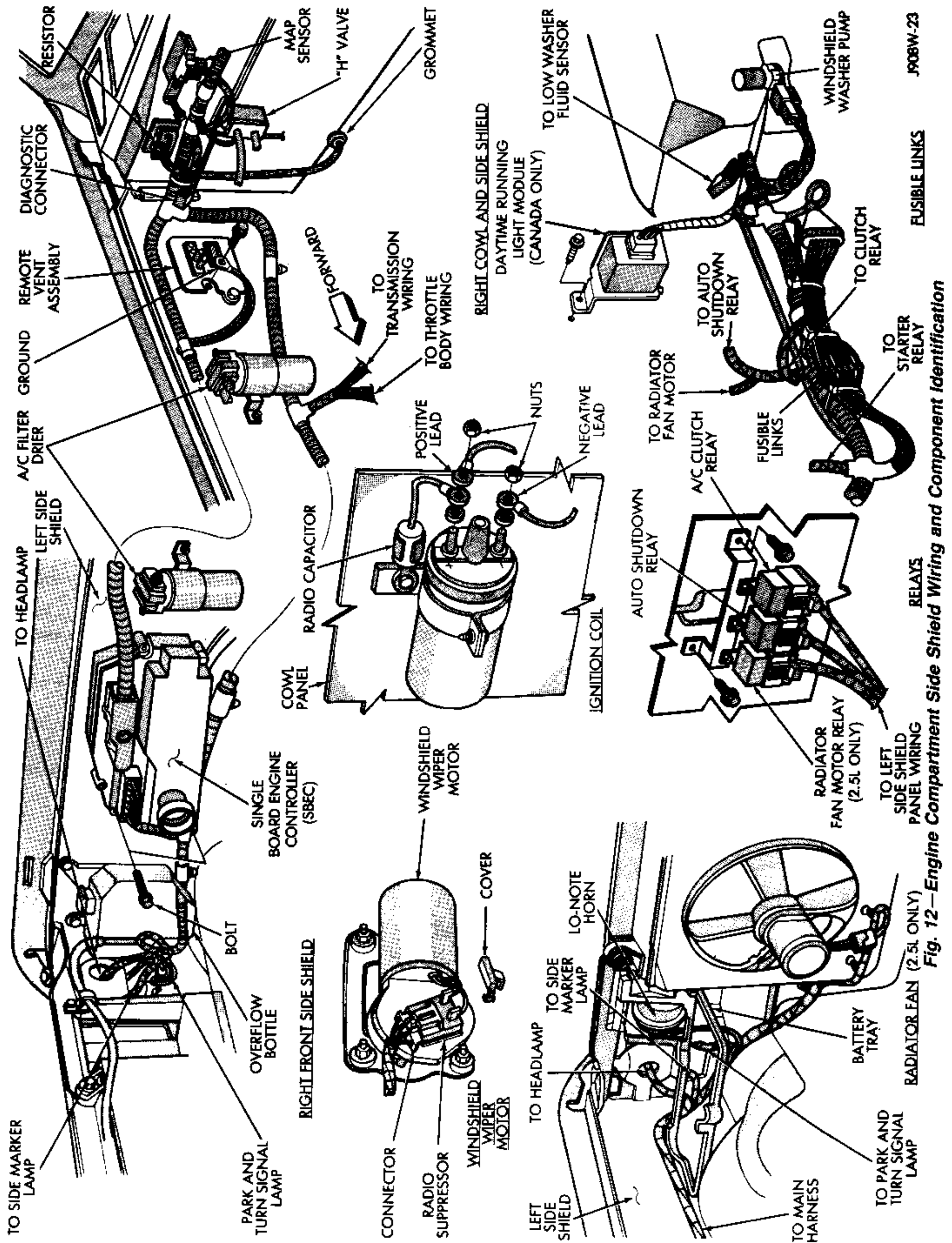


Fig. 11—Engine Compartment Wiring and Component Identification



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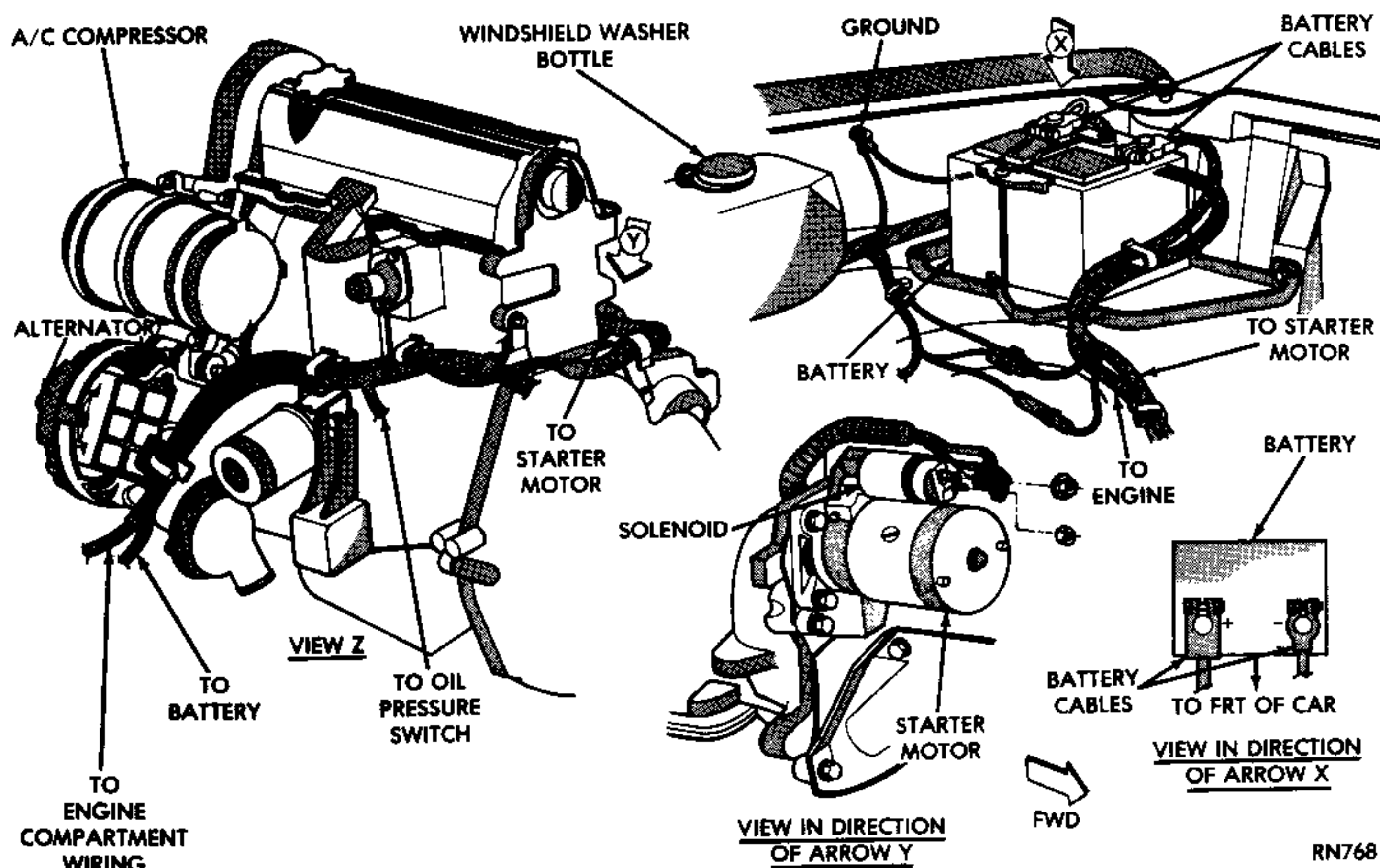


Fig. 13—Battery and Starter Wiring 2.5L Engine

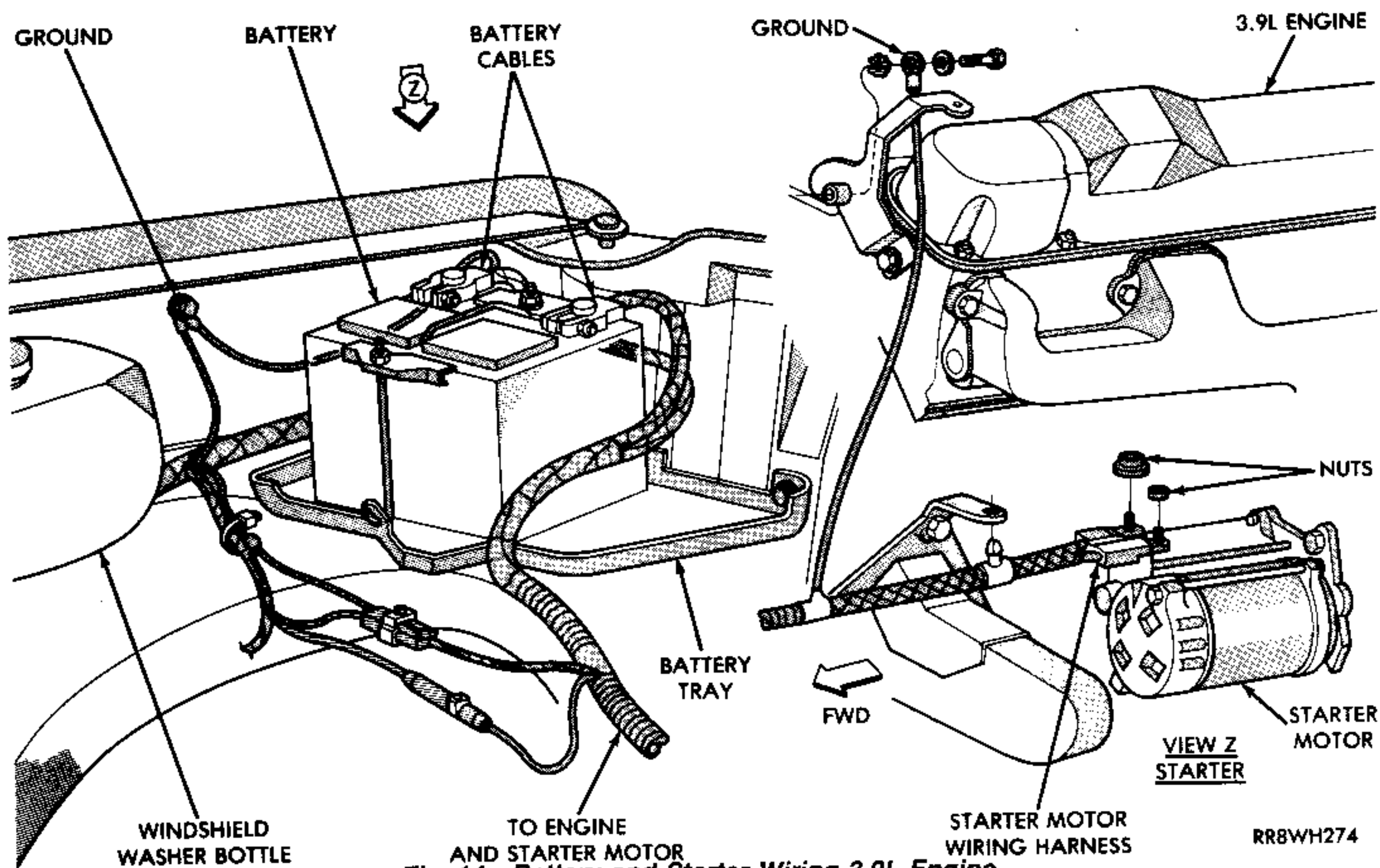


Fig. 14—Battery and Starter Wiring 3.9L Engine

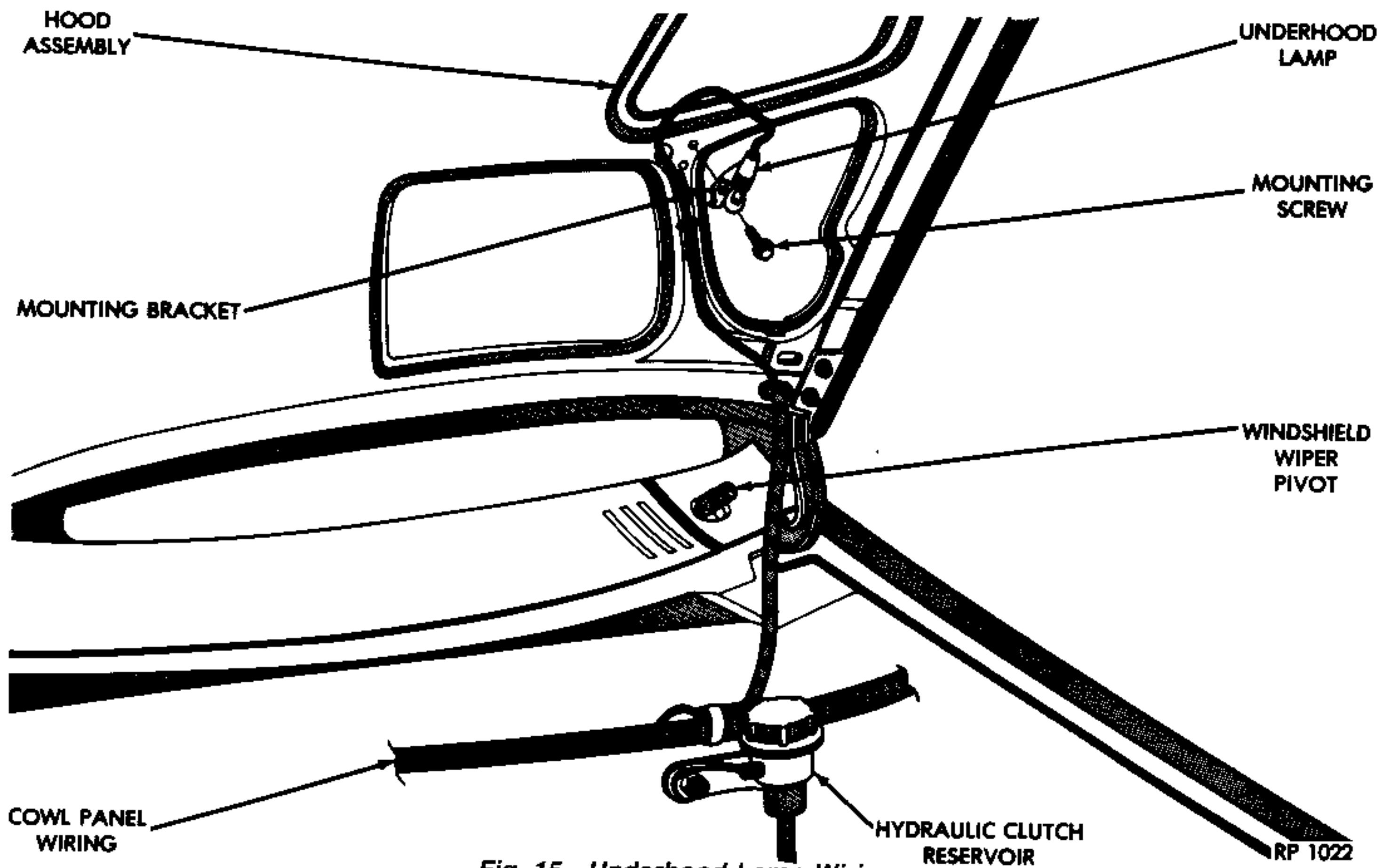


Fig. 15—Underhood Lamp Wiring

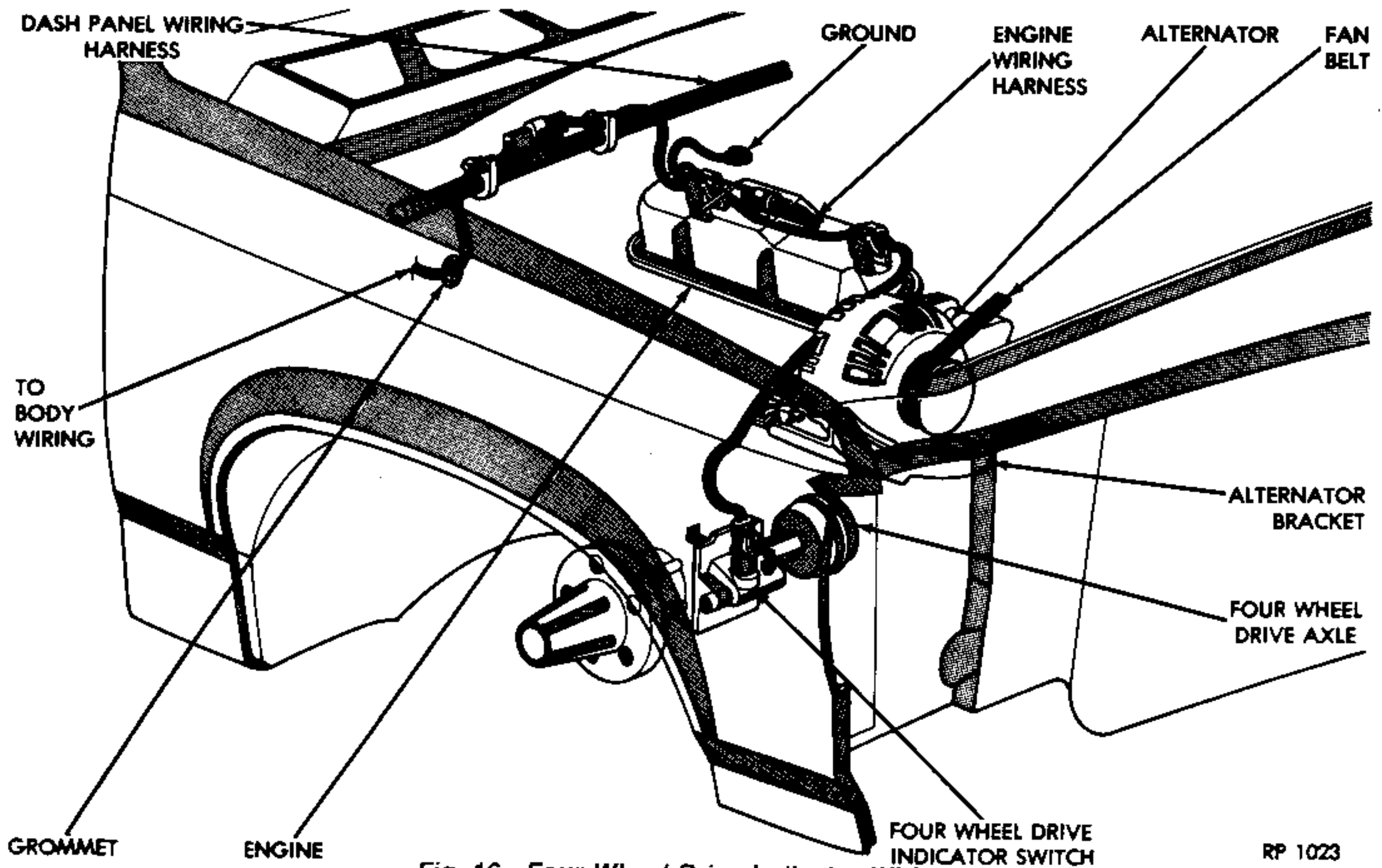
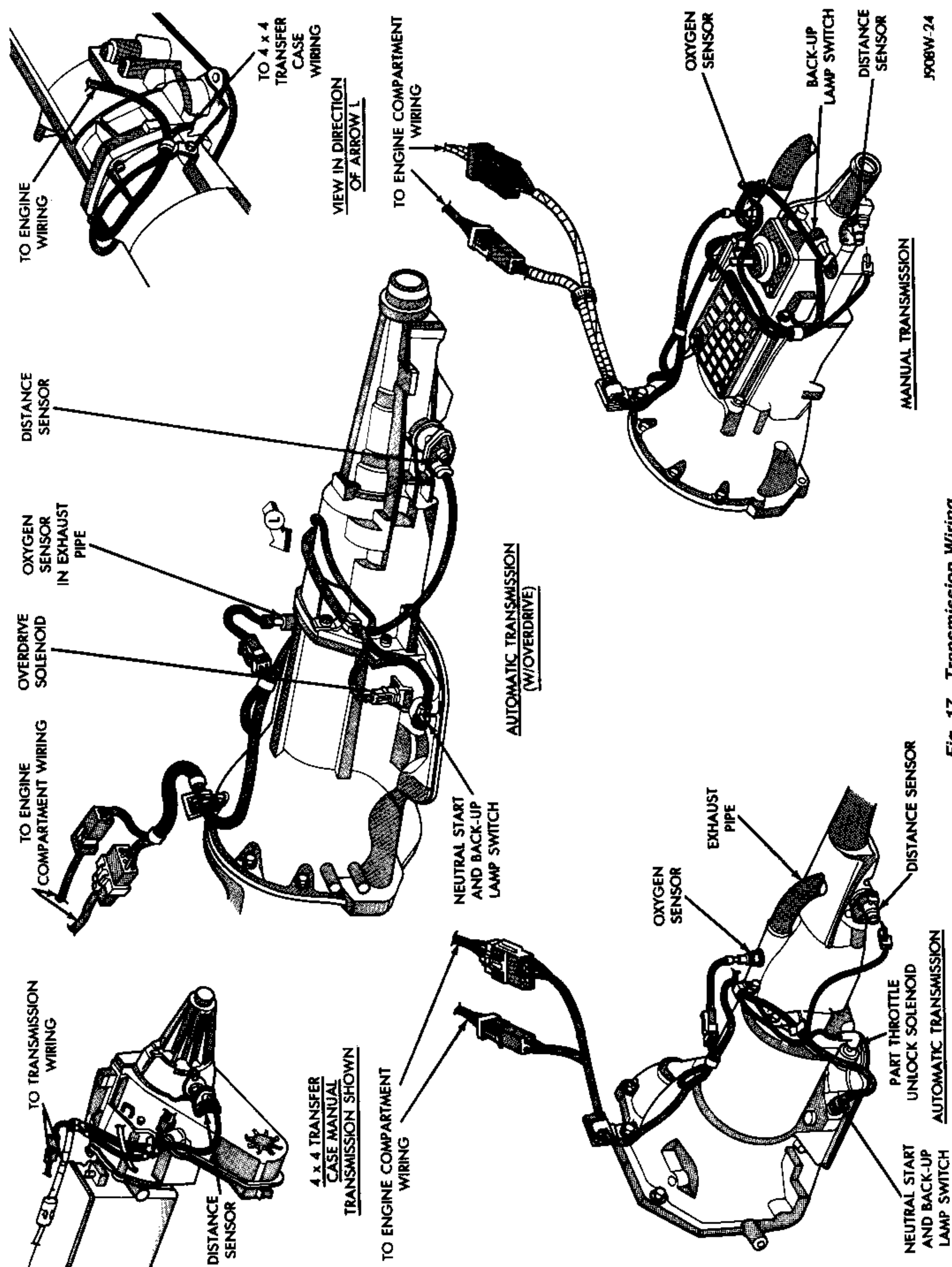
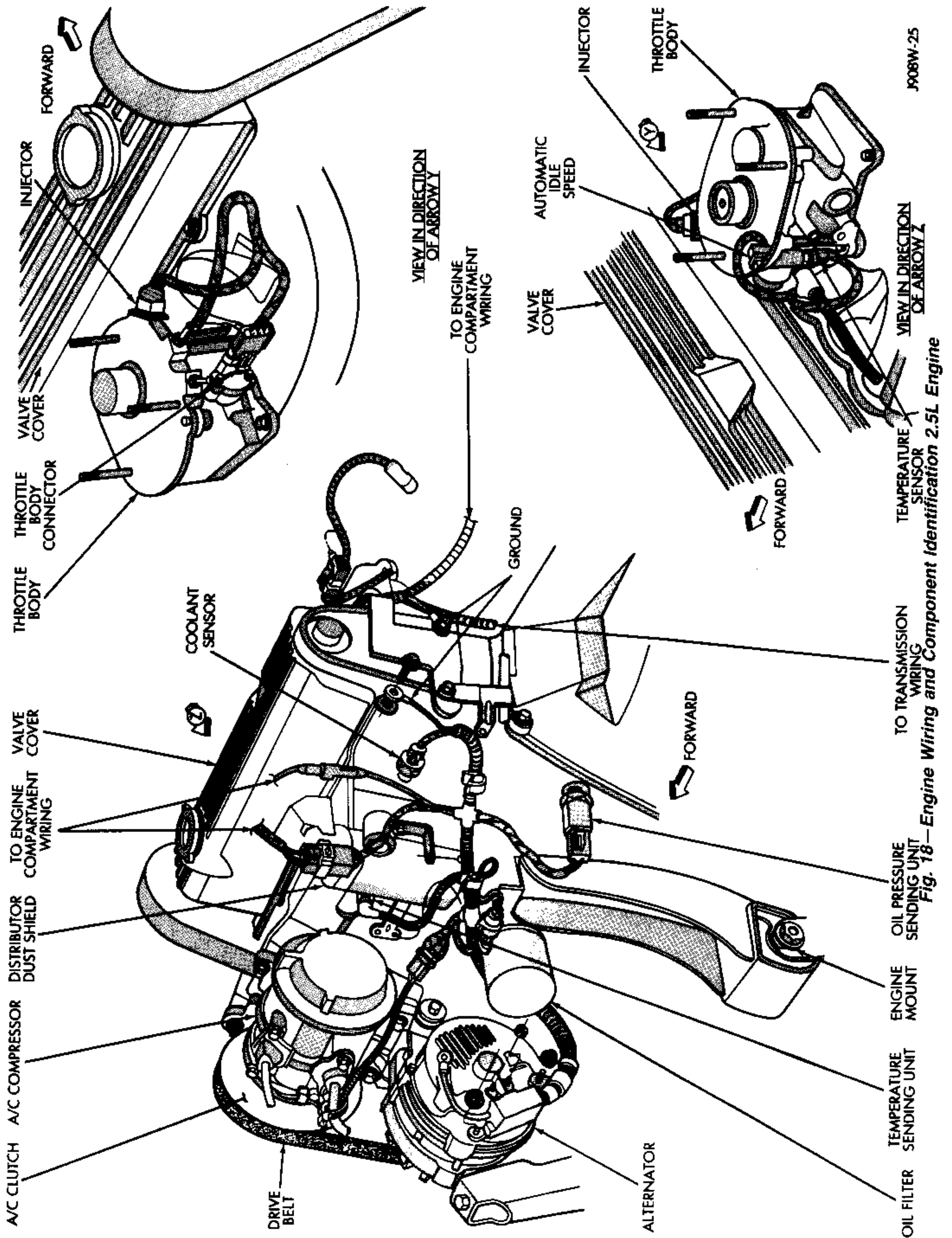


Fig. 16—Four-Wheel-Drive Indicator Wiring





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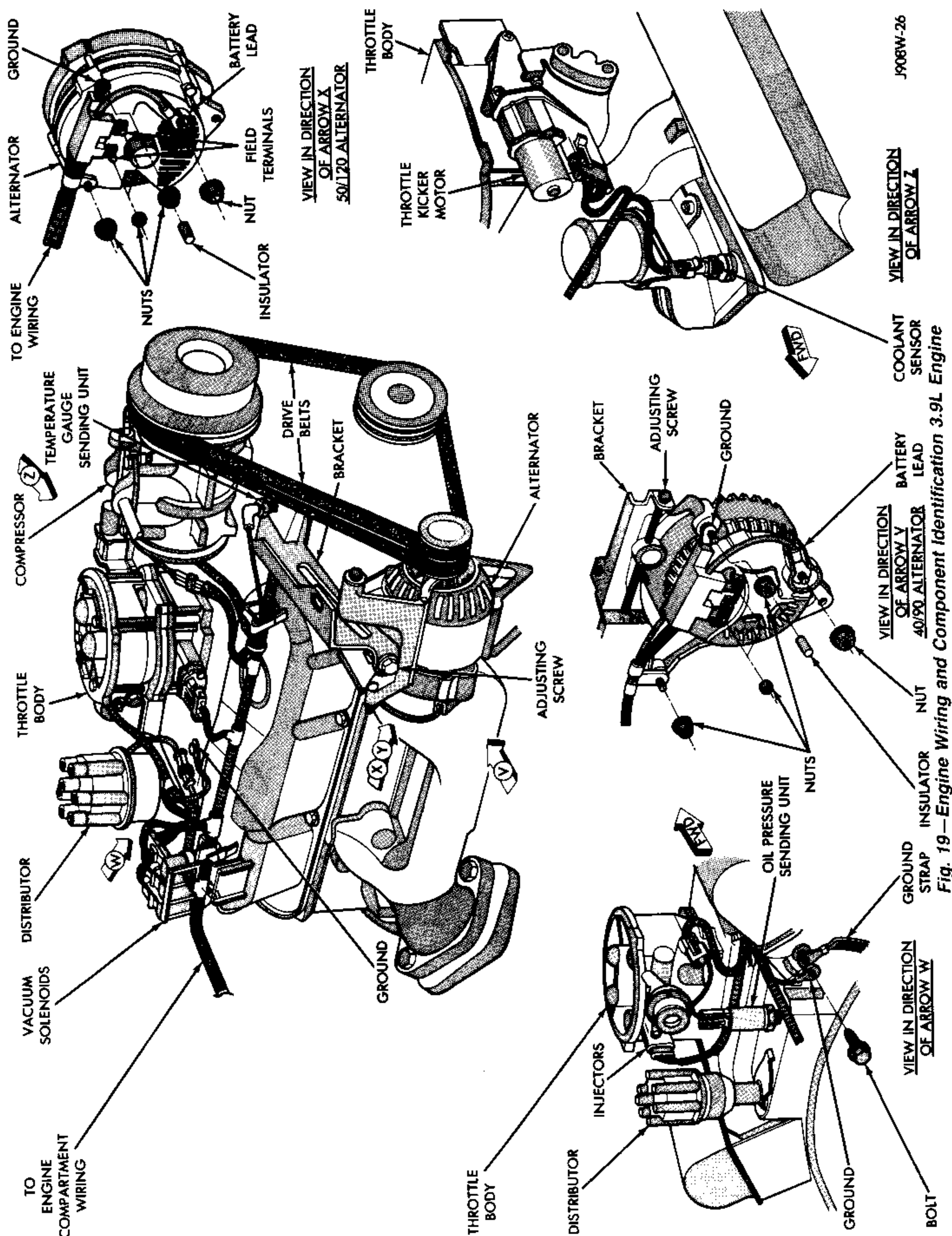


Fig. 19—Engine Wiring and Component Identification 3.9L Engine

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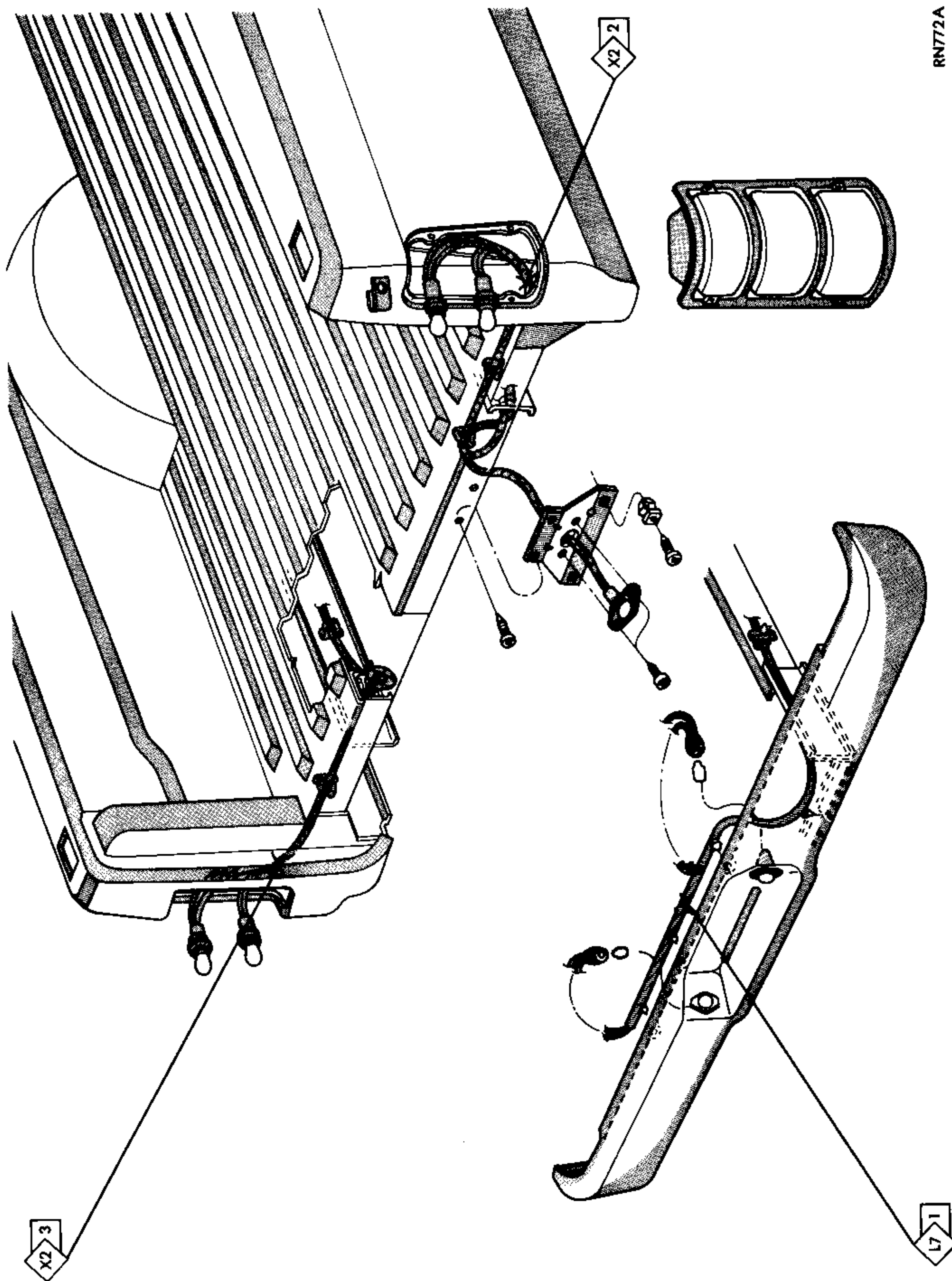


Fig. 1—Cargo Box Splices

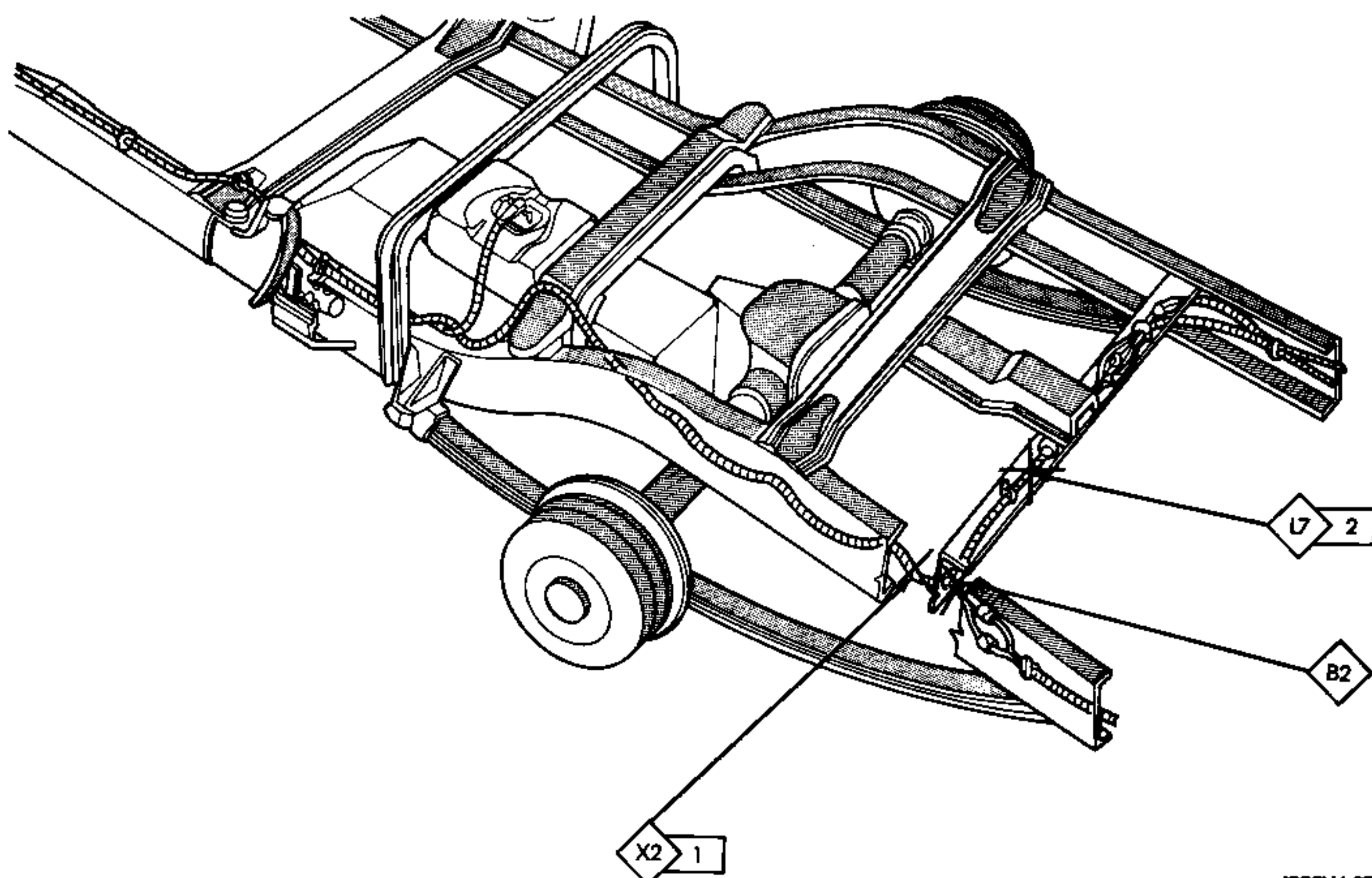


Fig. 2—Frame Splices

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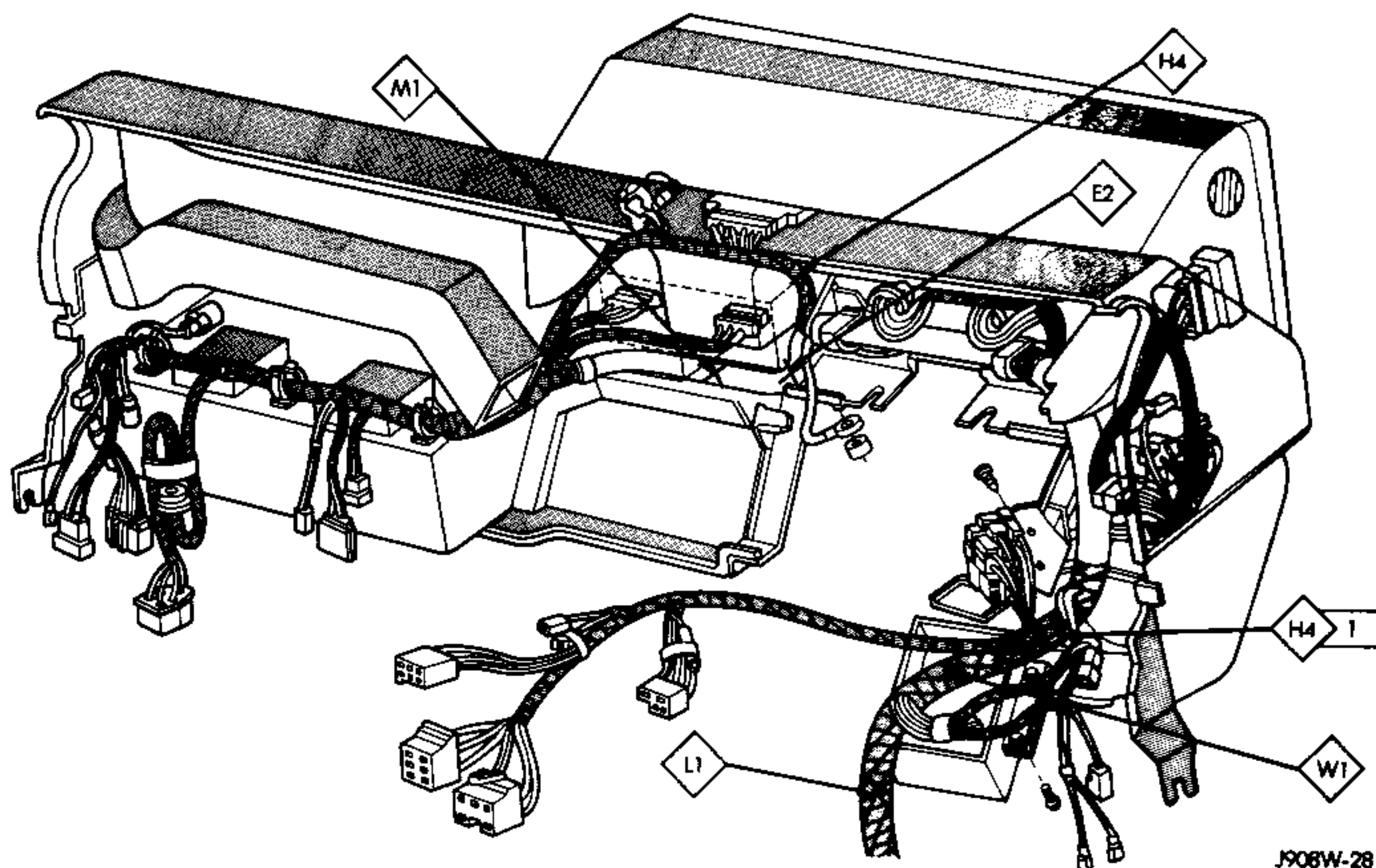


Fig. 3—Instrument Panel Splices

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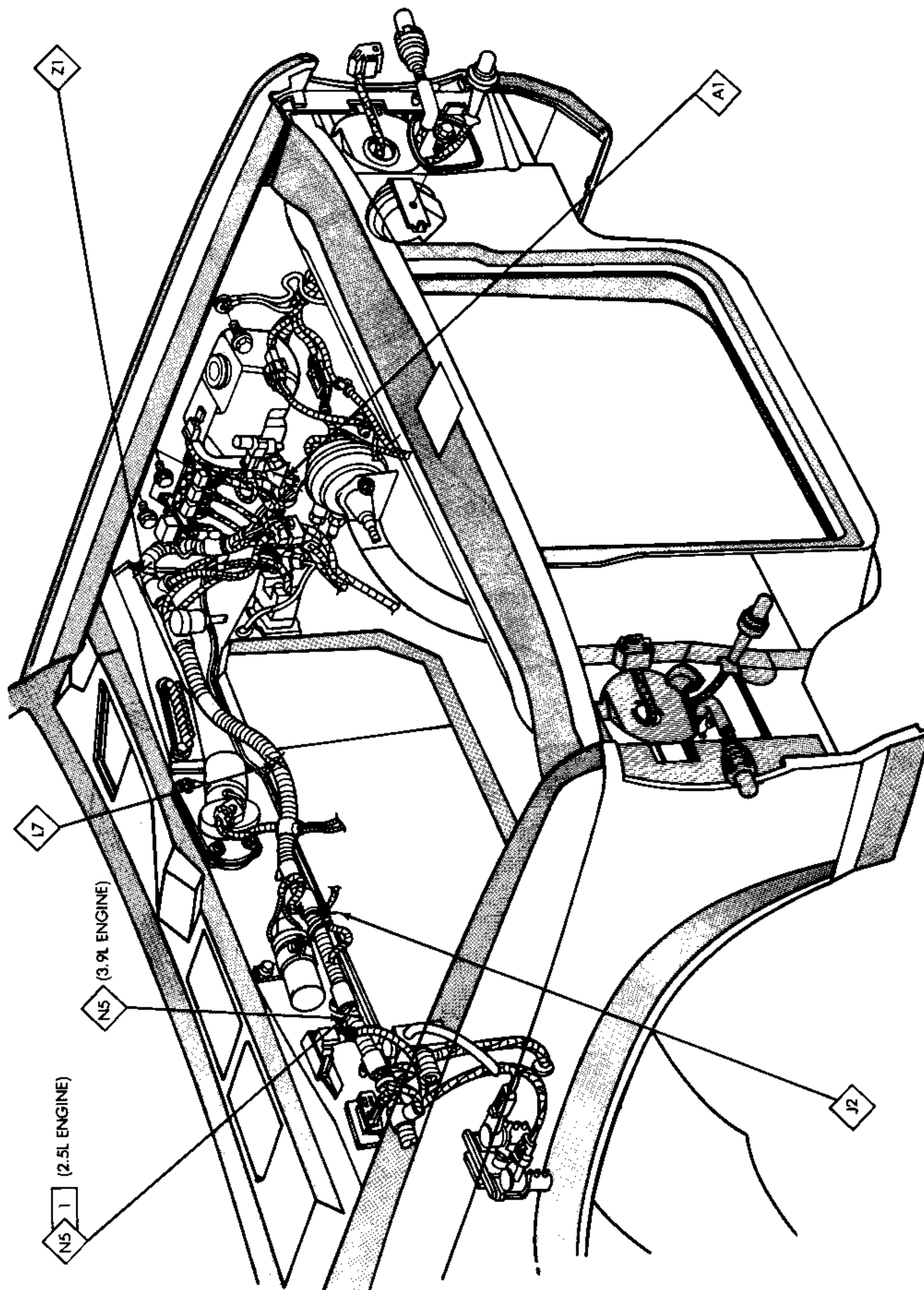
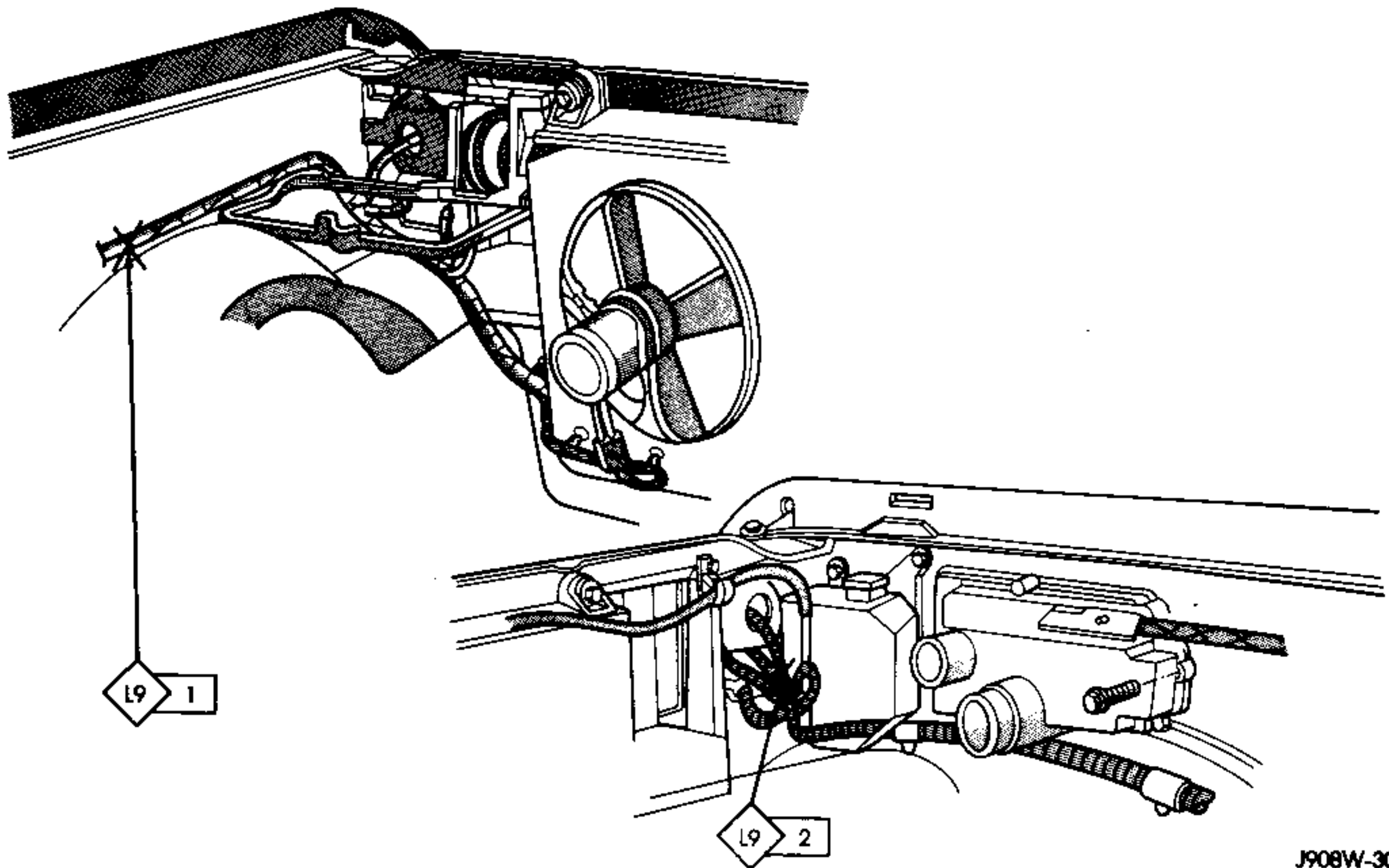
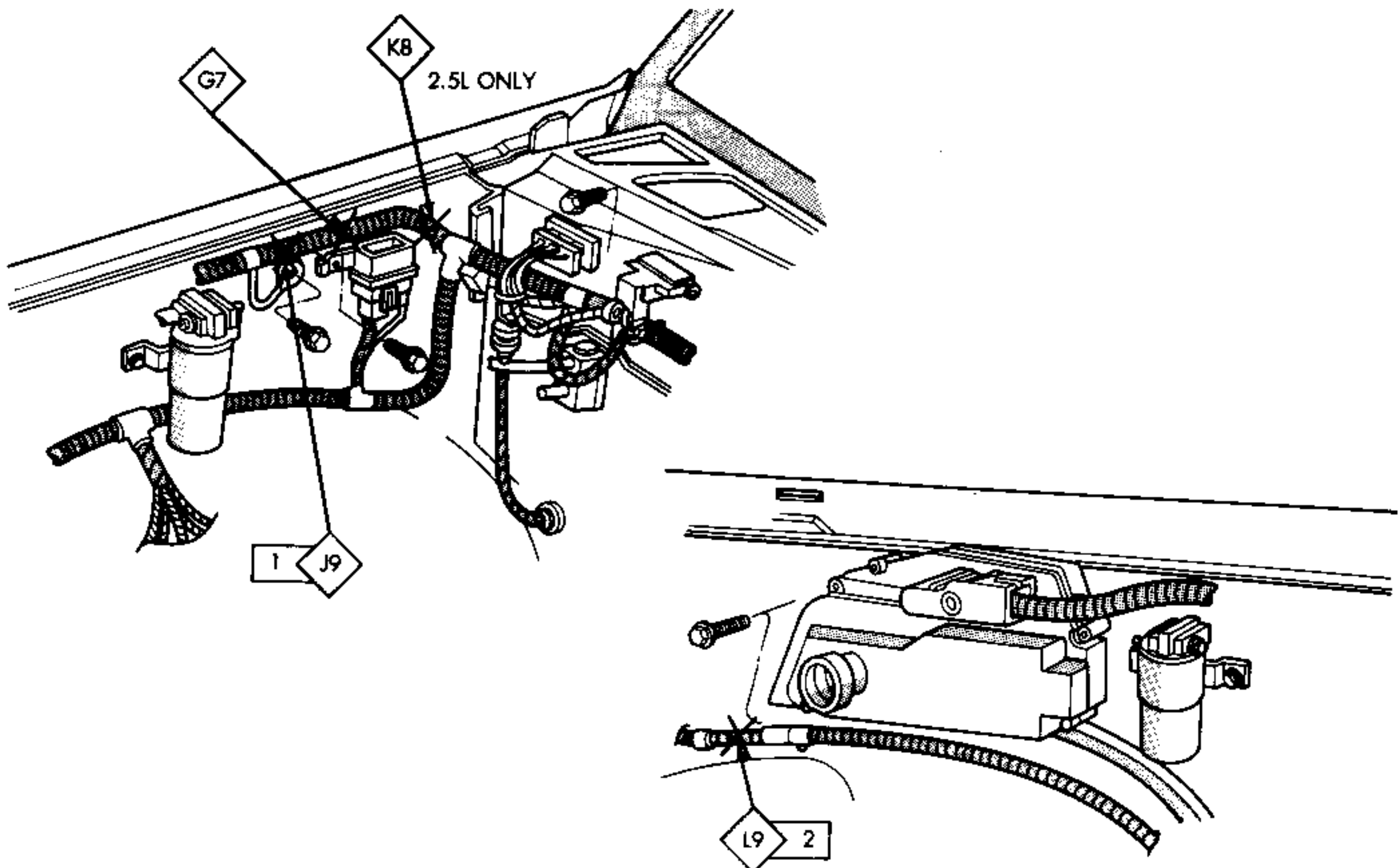


Fig. 4—Engine Compartment Splices 2.5L and 3.0L Engine



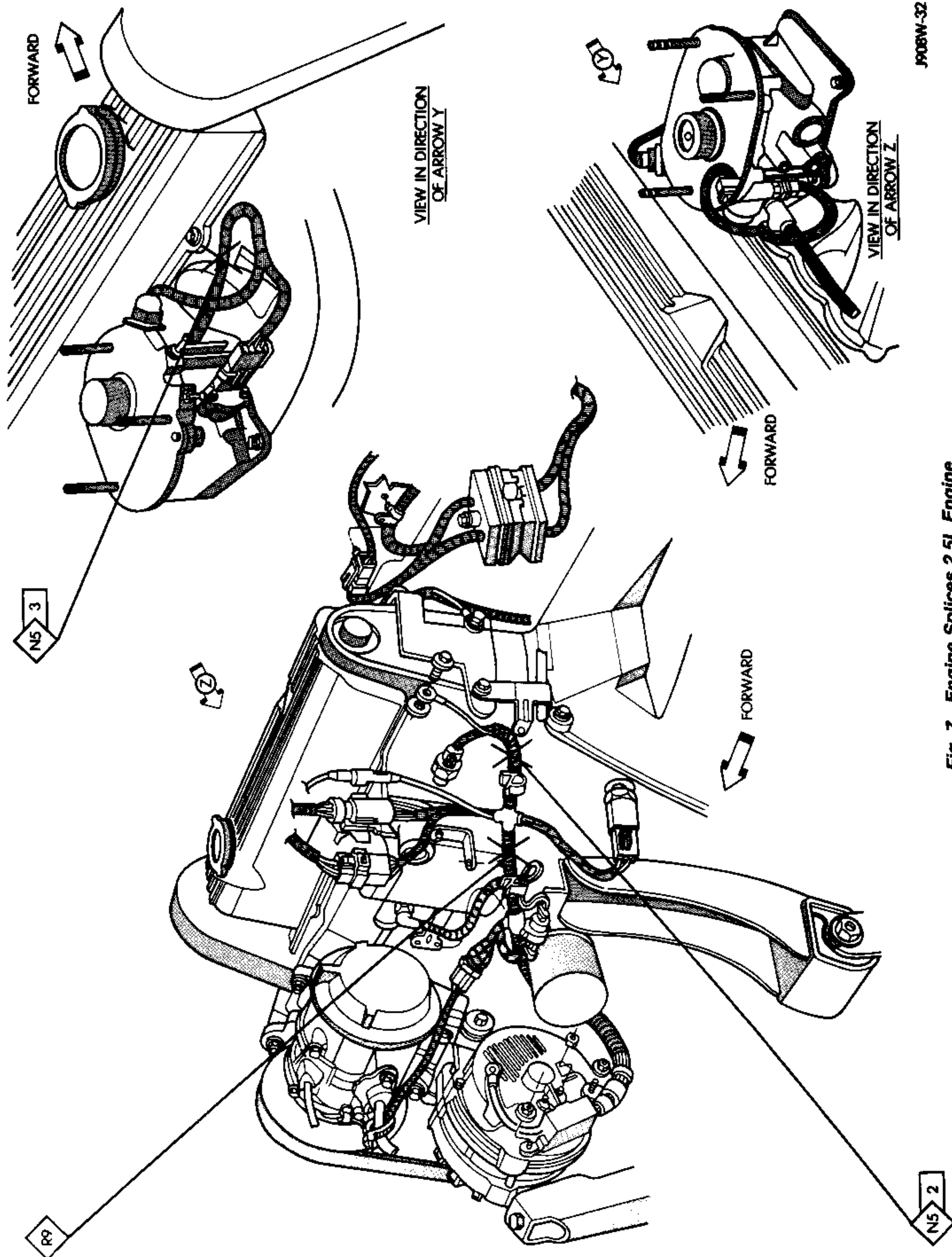
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Fig. 5—Engine Compartment Side Shield Splices 2.5L and 3.9L Engine



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Fig. 6—Engine Compartment Side Shield Splices 2.5L and 3.9L Engine



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Fig. 7—Engine Splices 2.5L Engine

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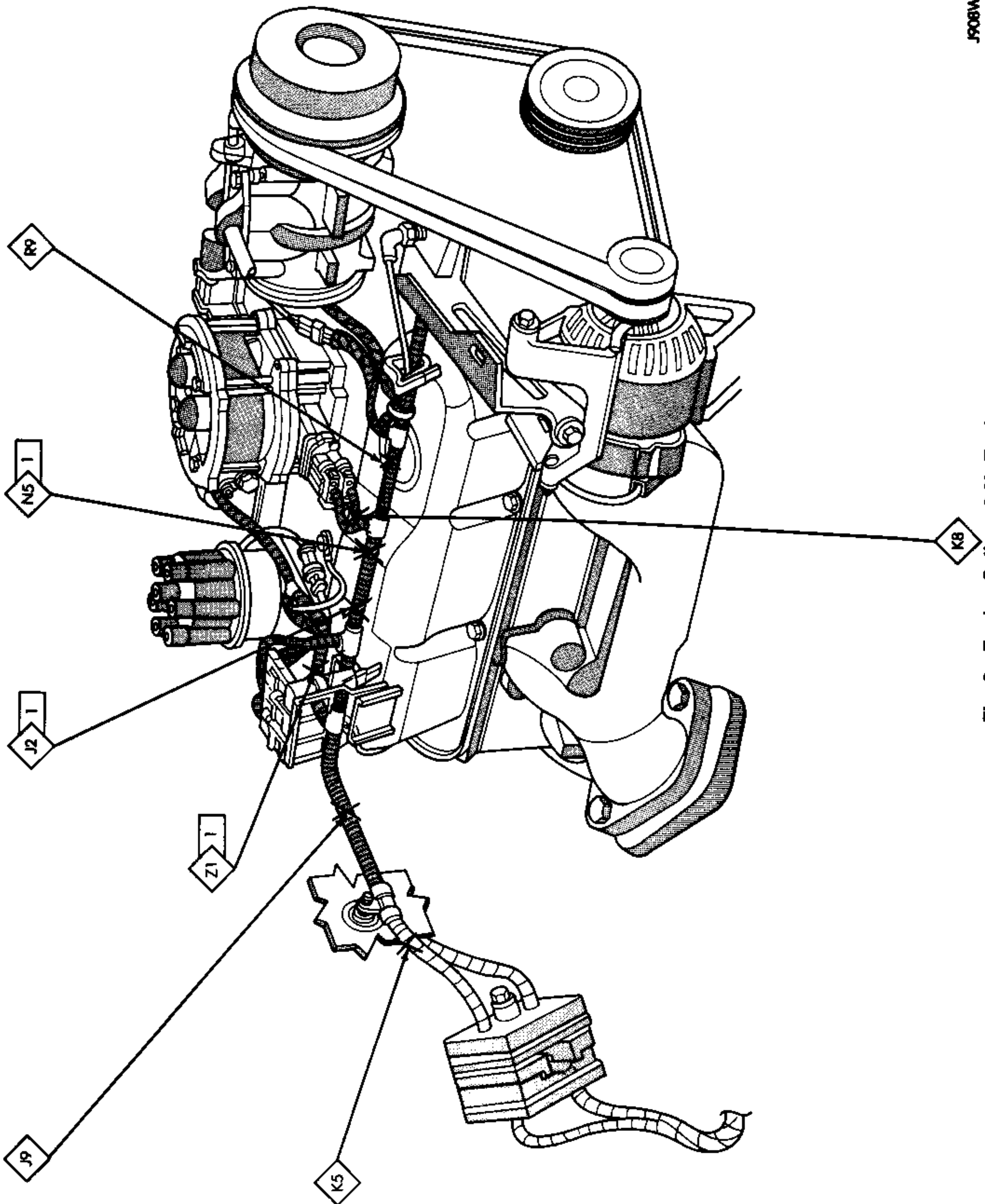


Fig. 8—Engine Splices 3.9L Engine

WIRE ROUTING AND COMPONENT LOCATION

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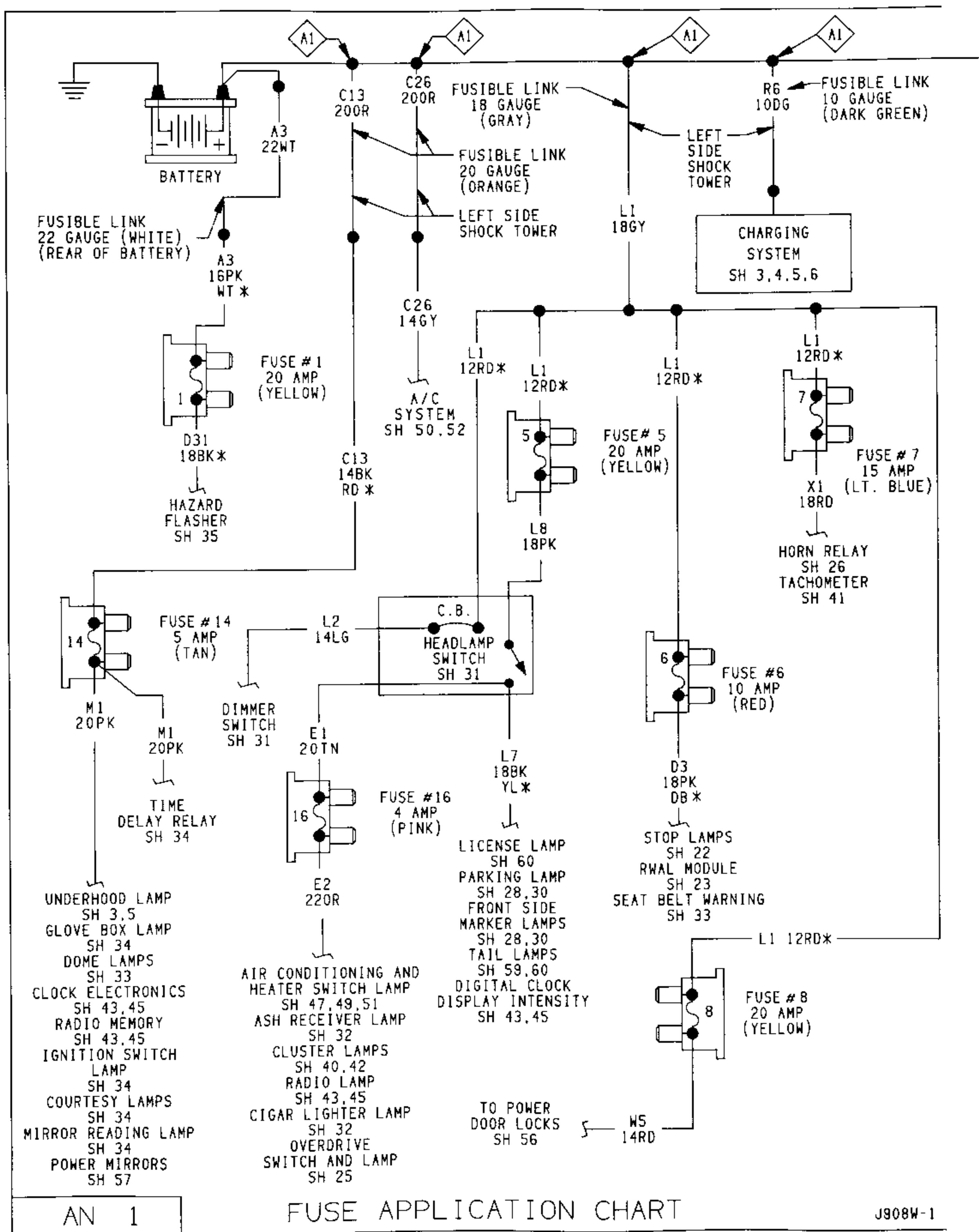
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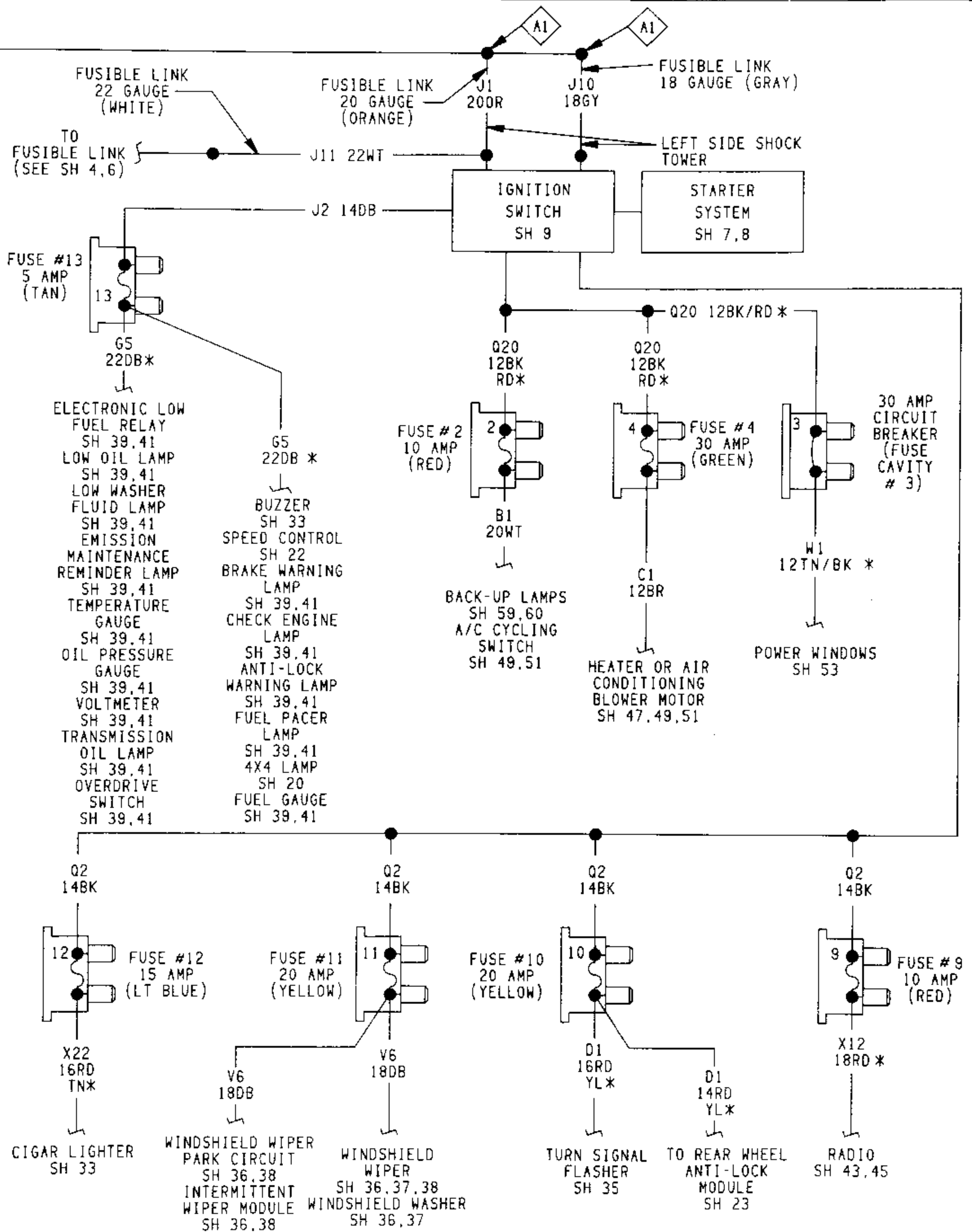
Name	Wiring Diagram Sheet Number
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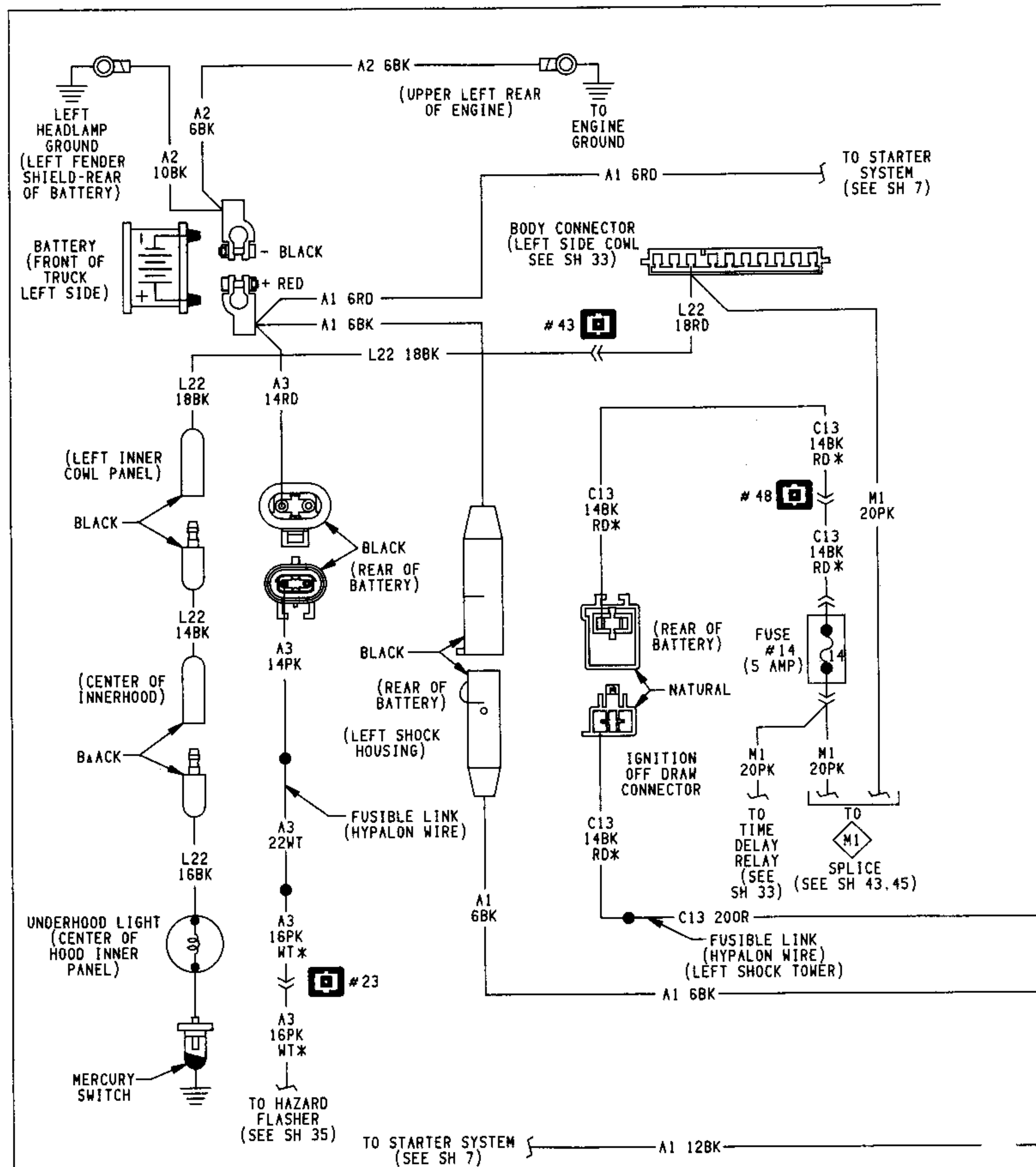
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Cavity 20	34
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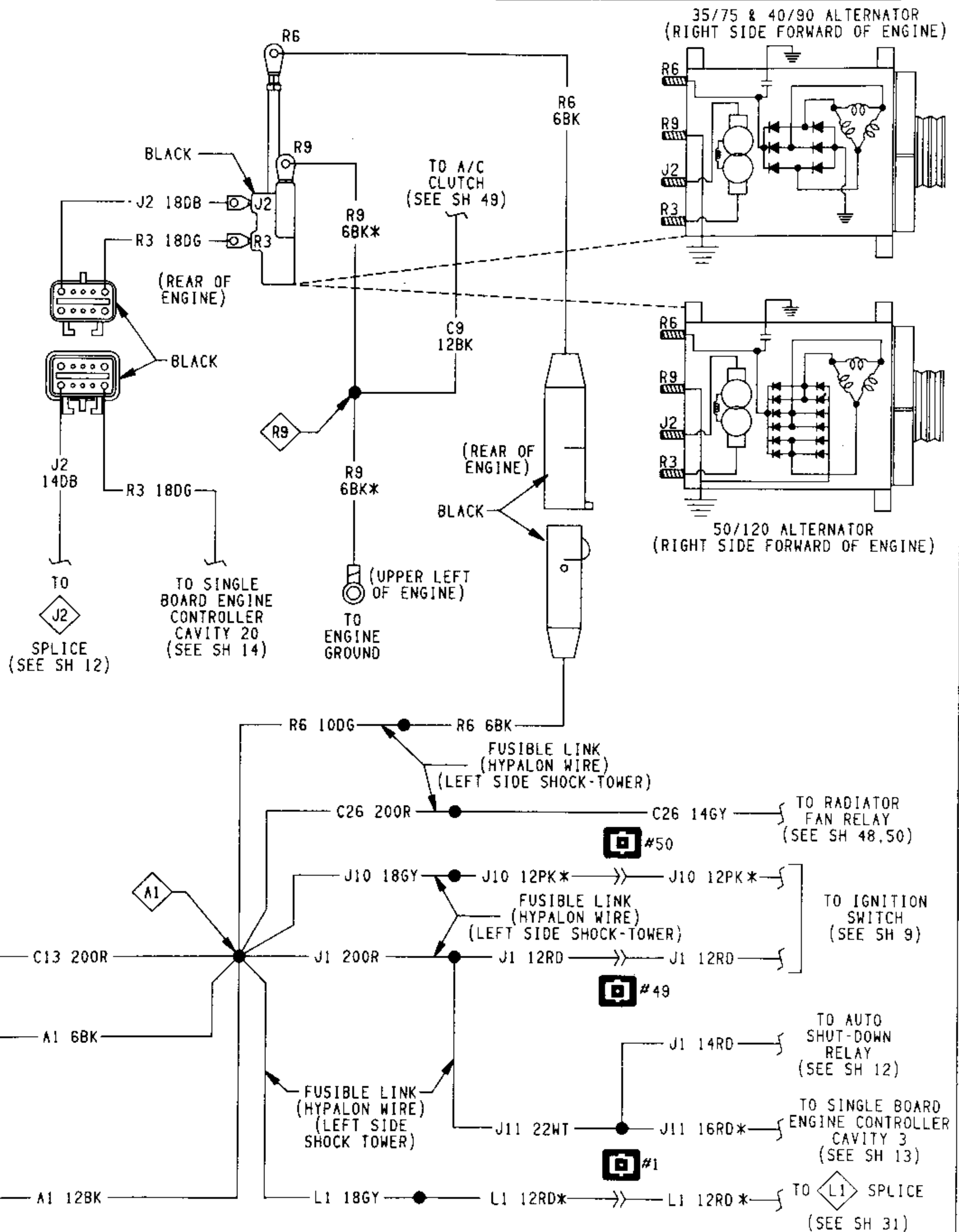
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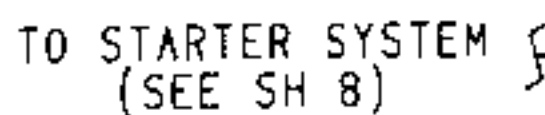
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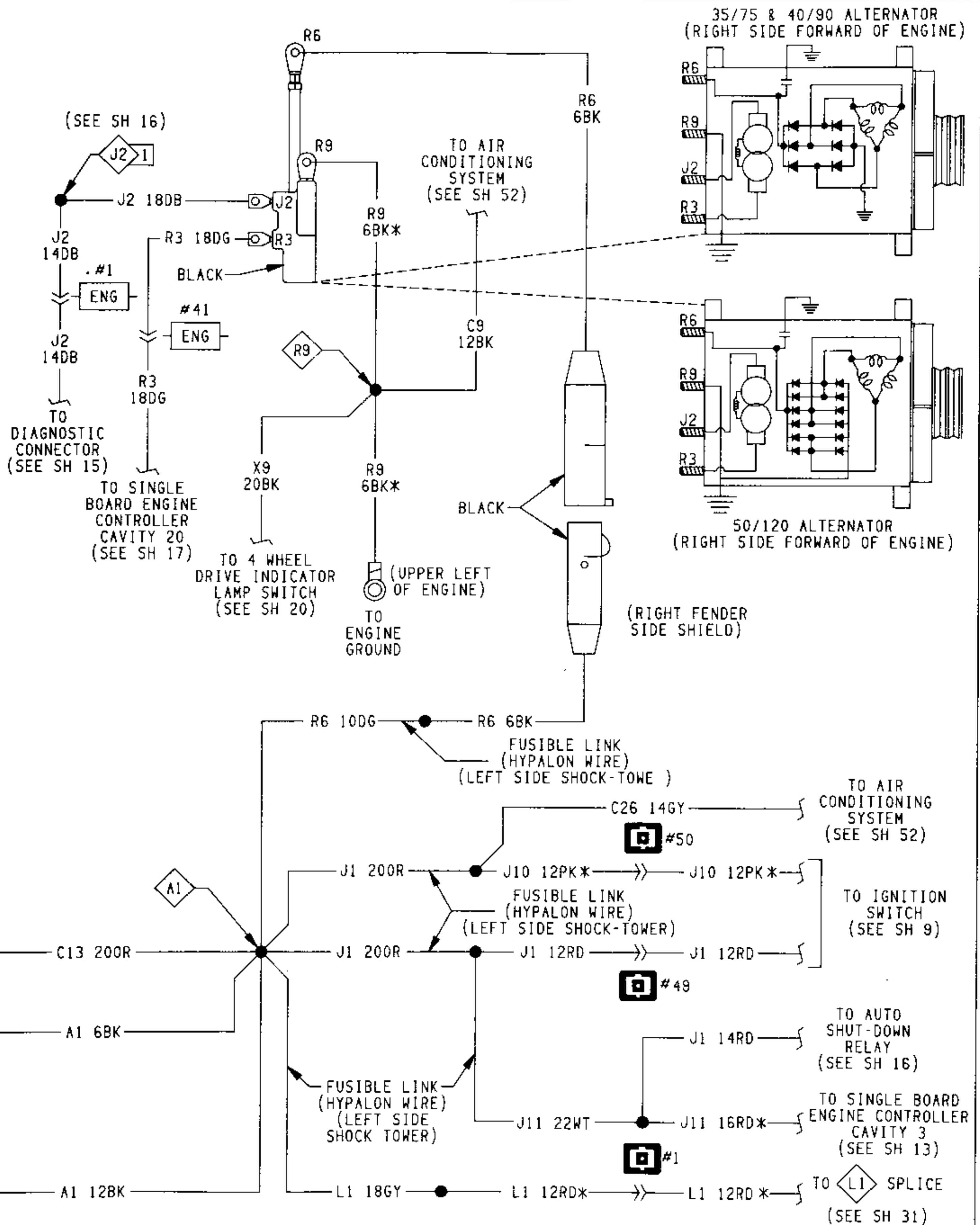


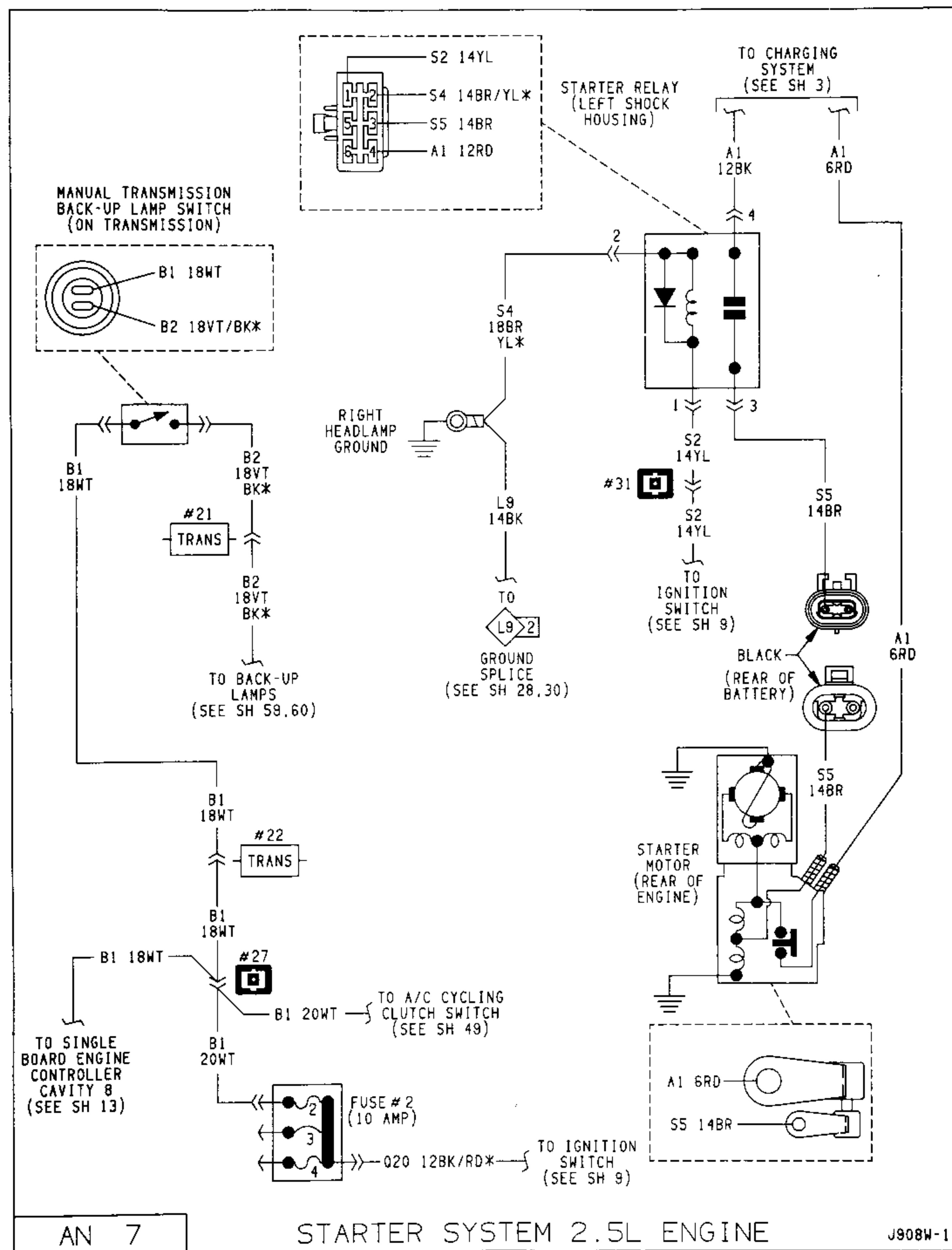


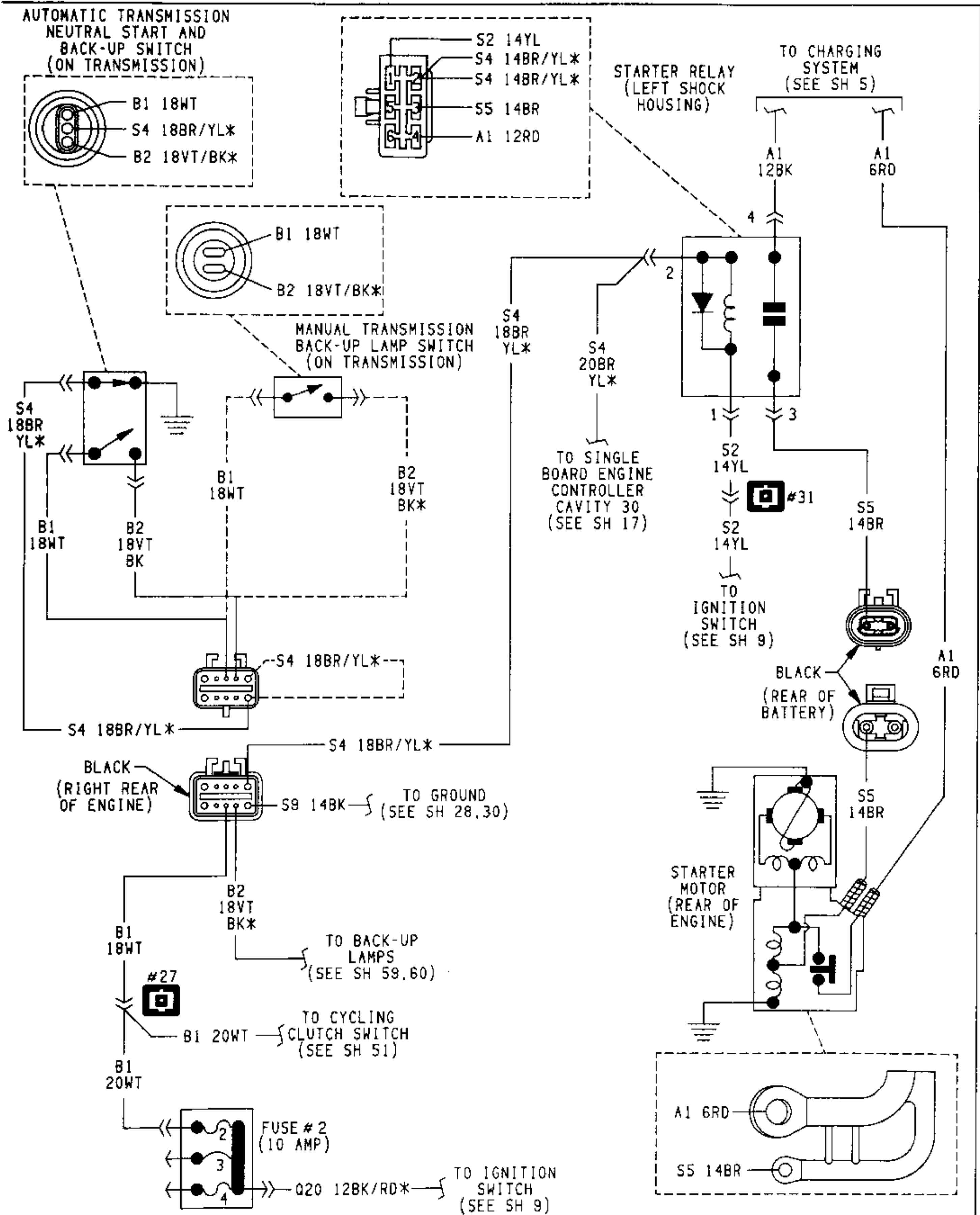


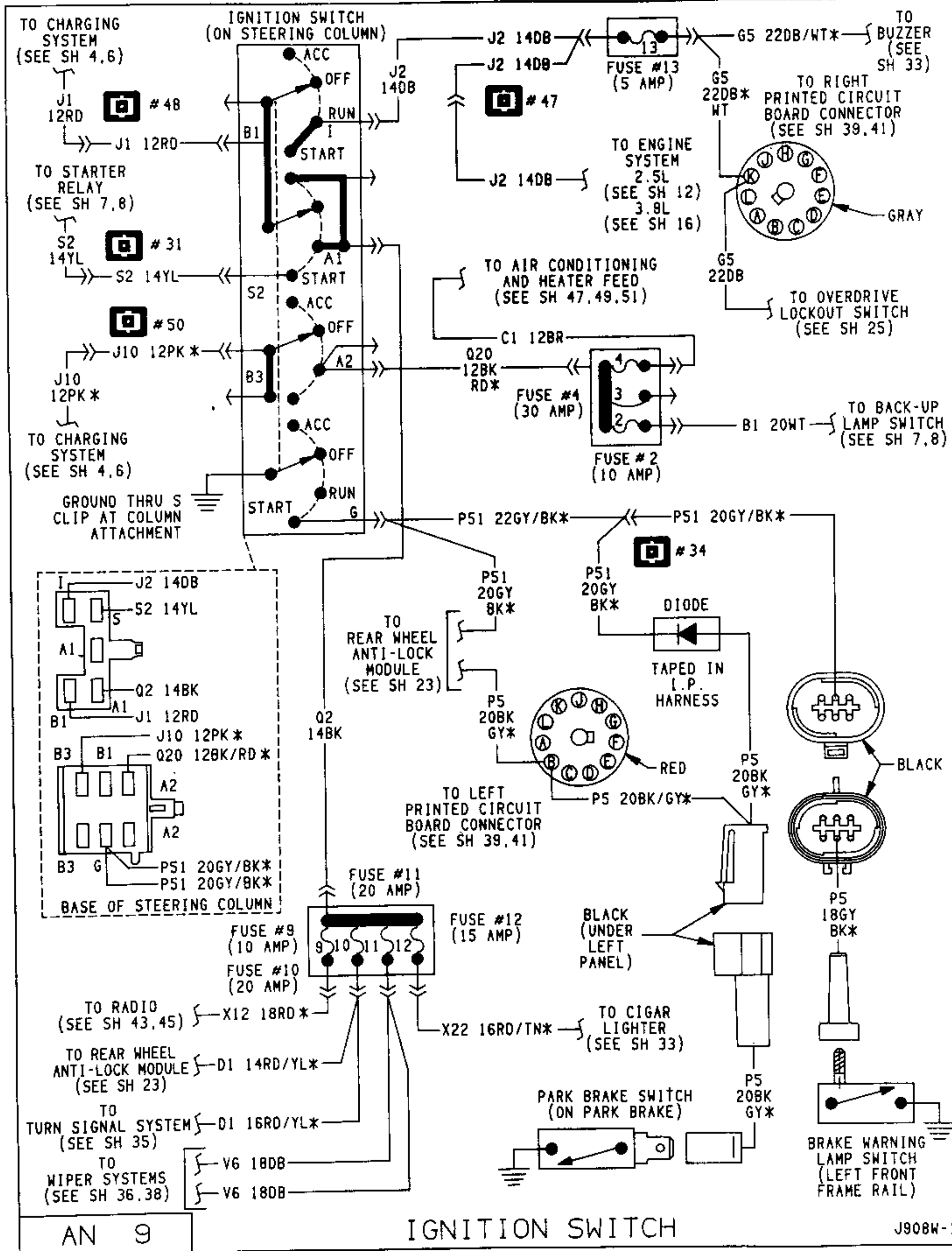


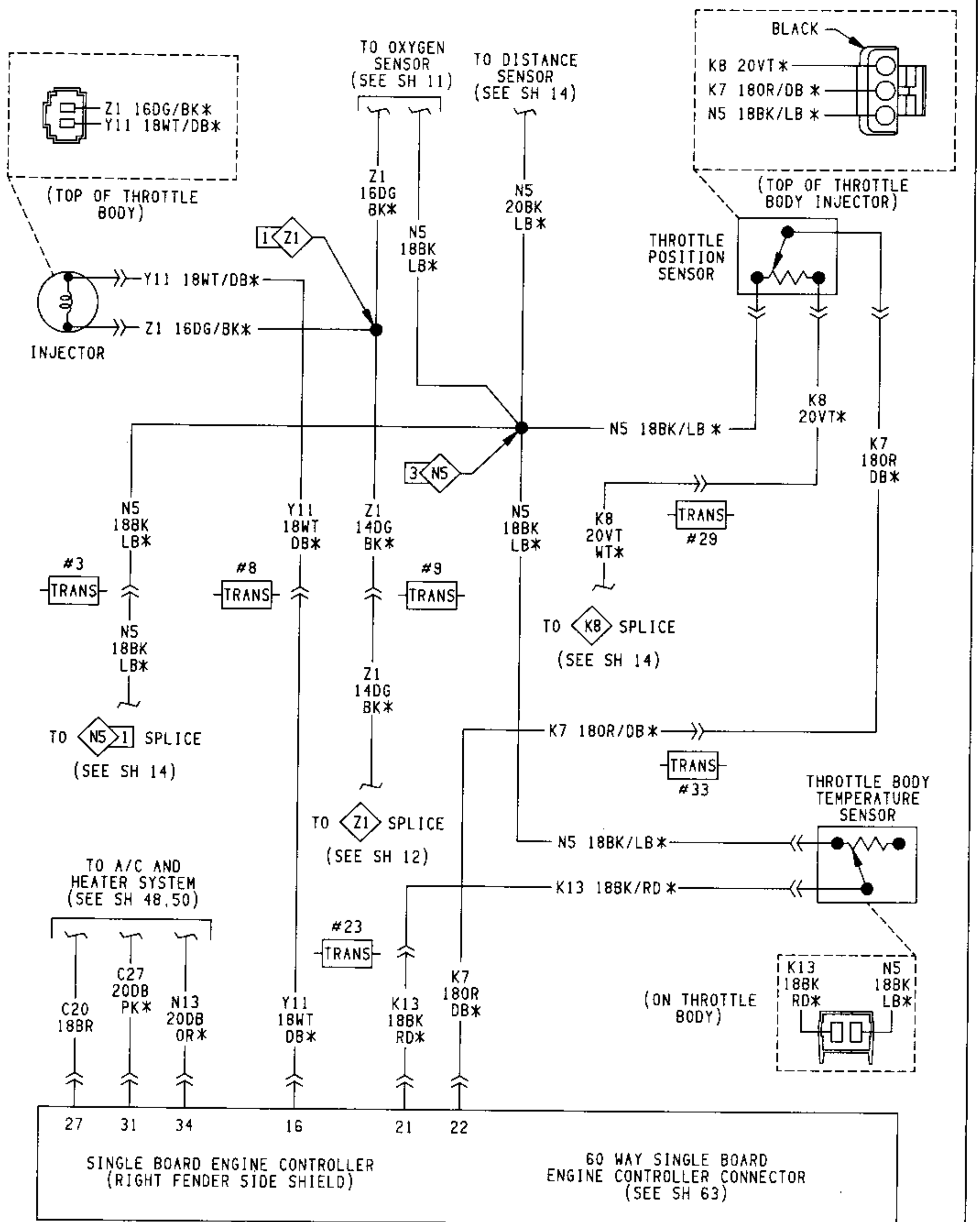


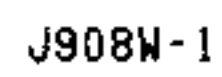




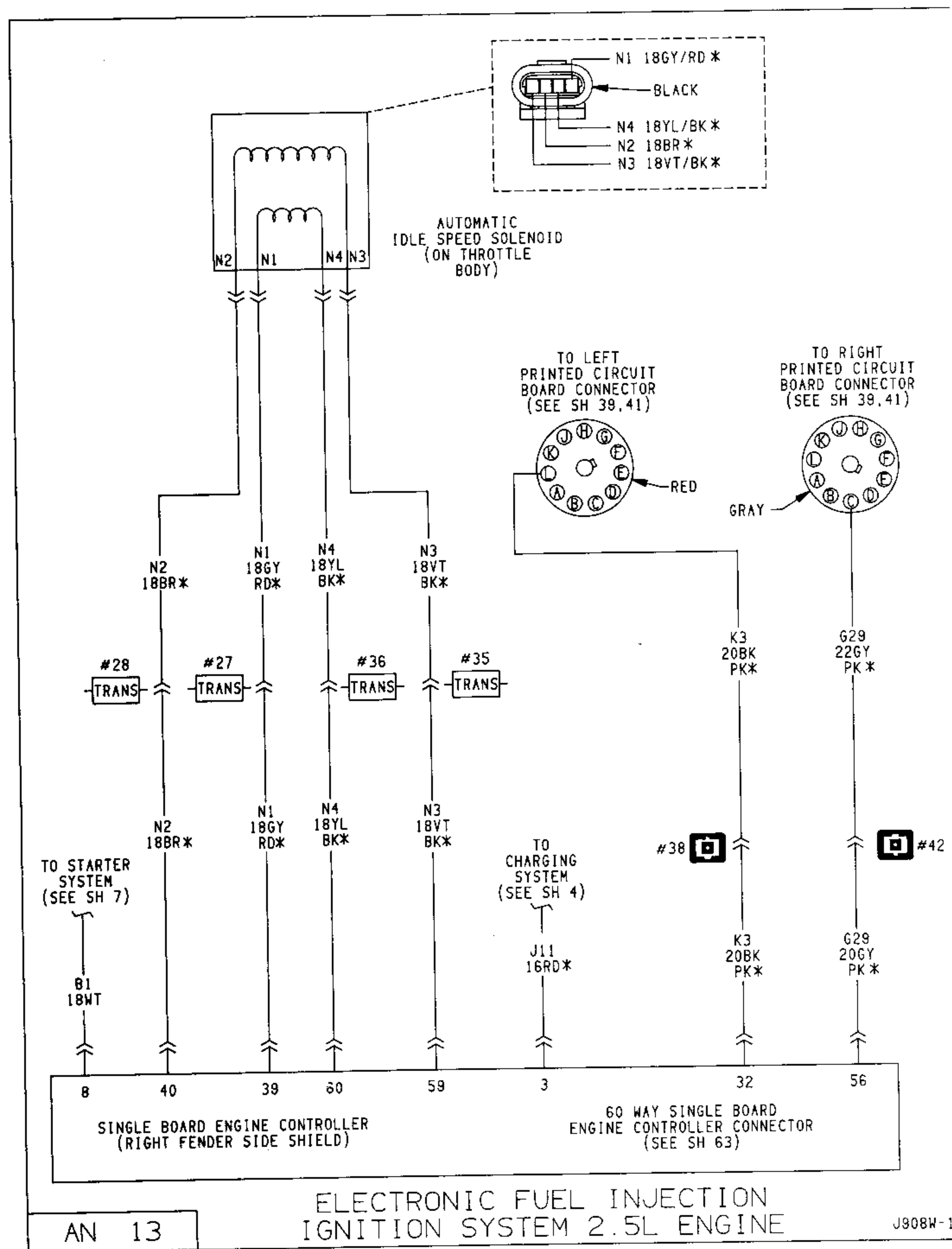




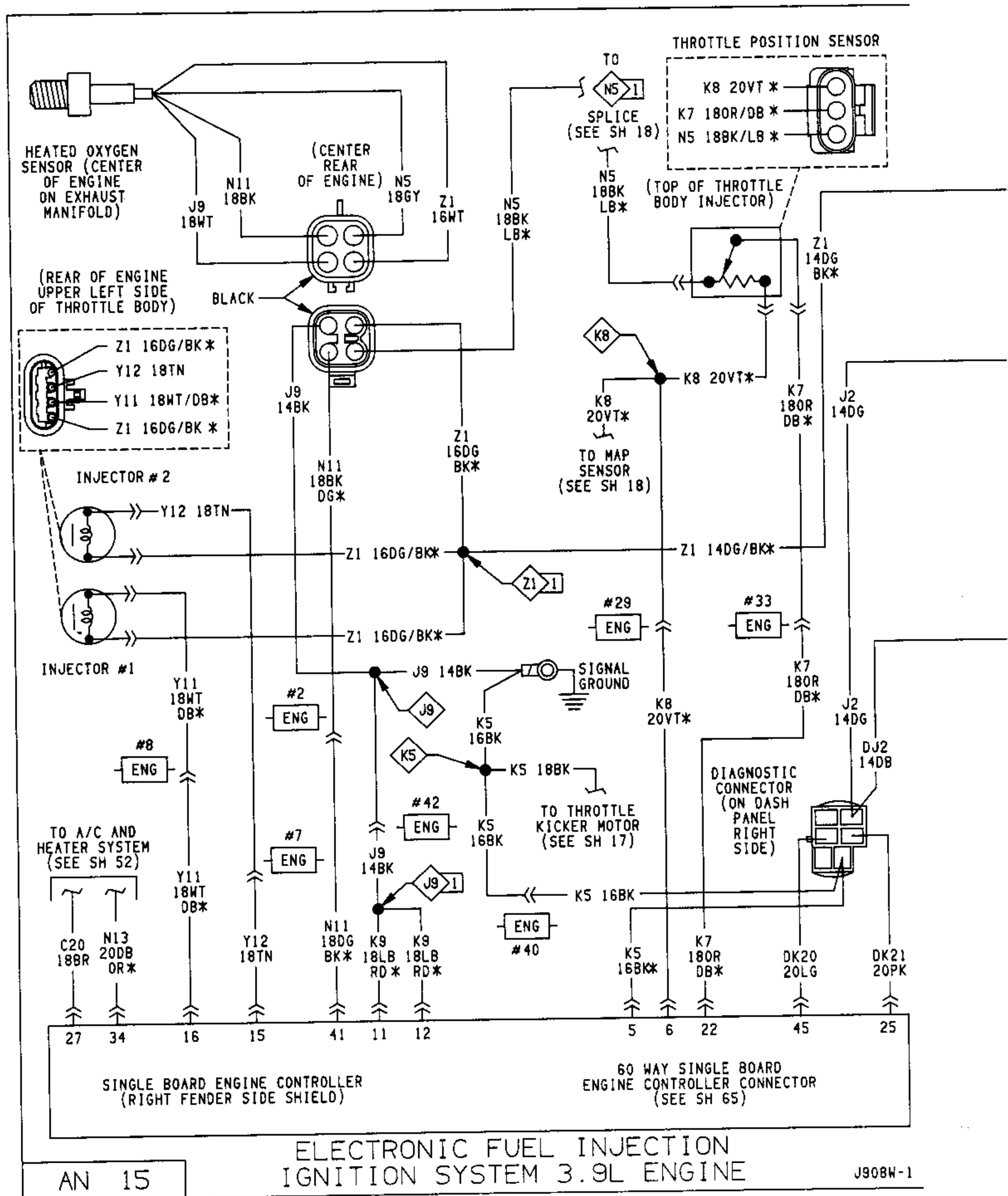
ELECTRONIC FUEL INJECTION
IGNITION SYSTEM 2.5L ENGINE



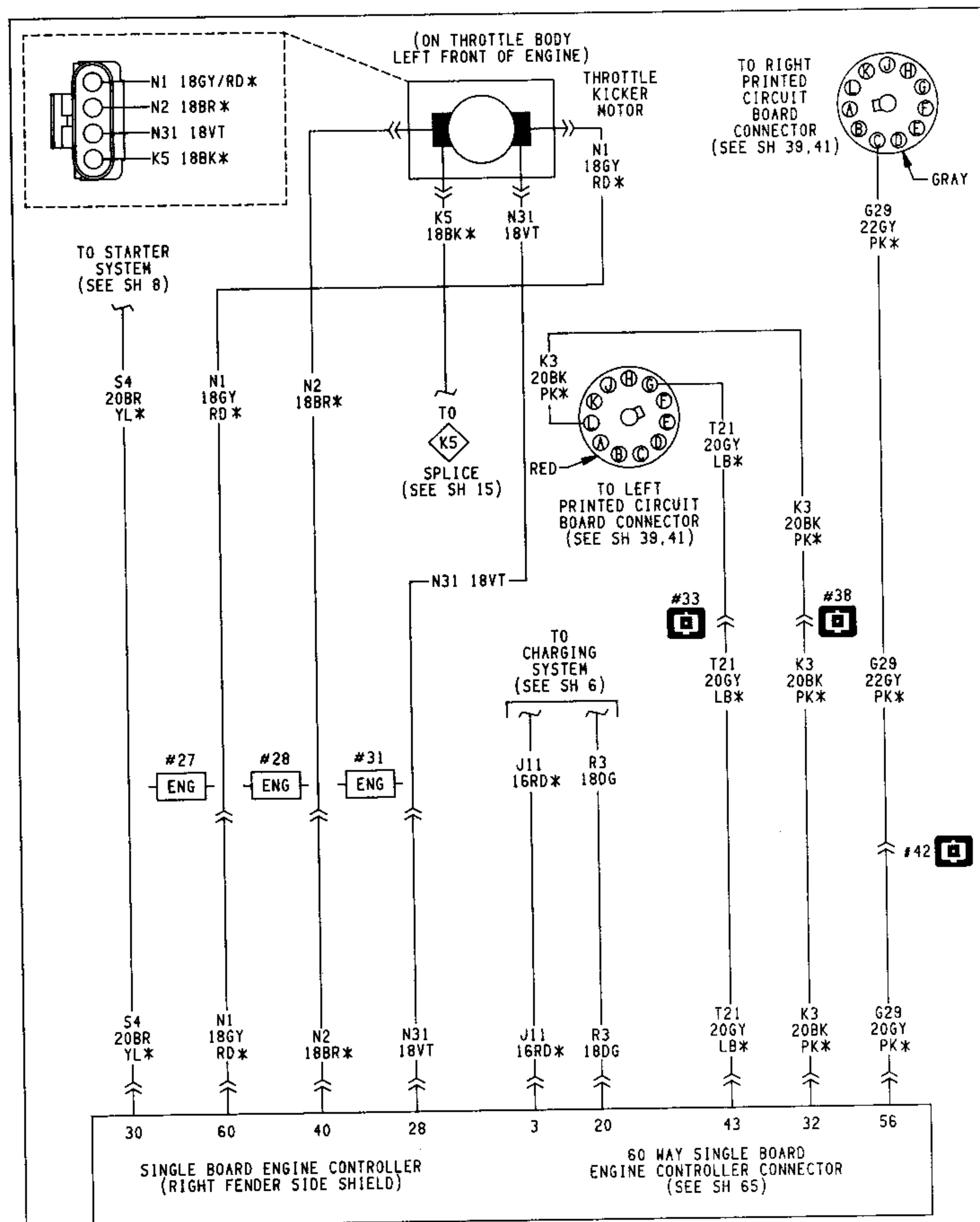




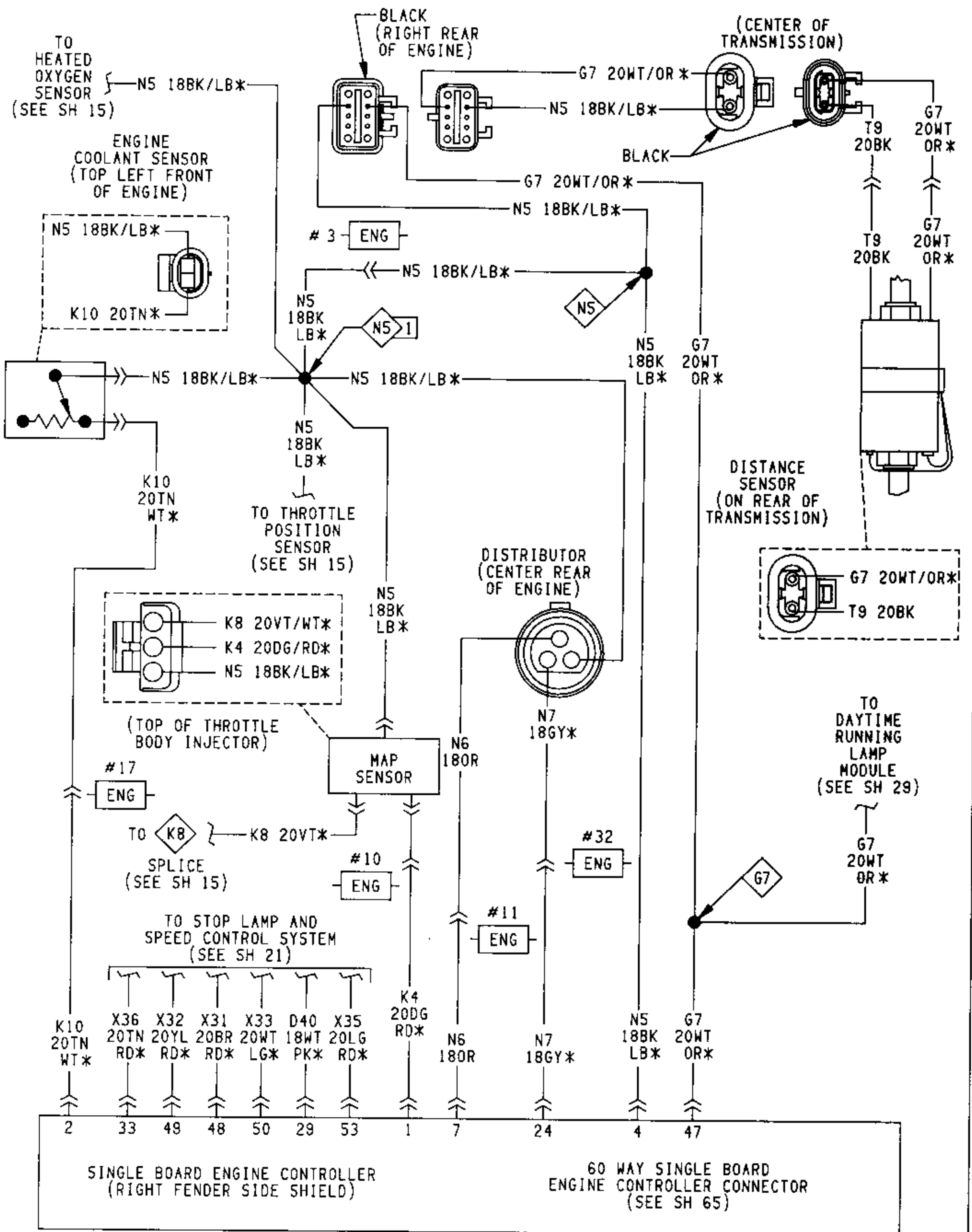


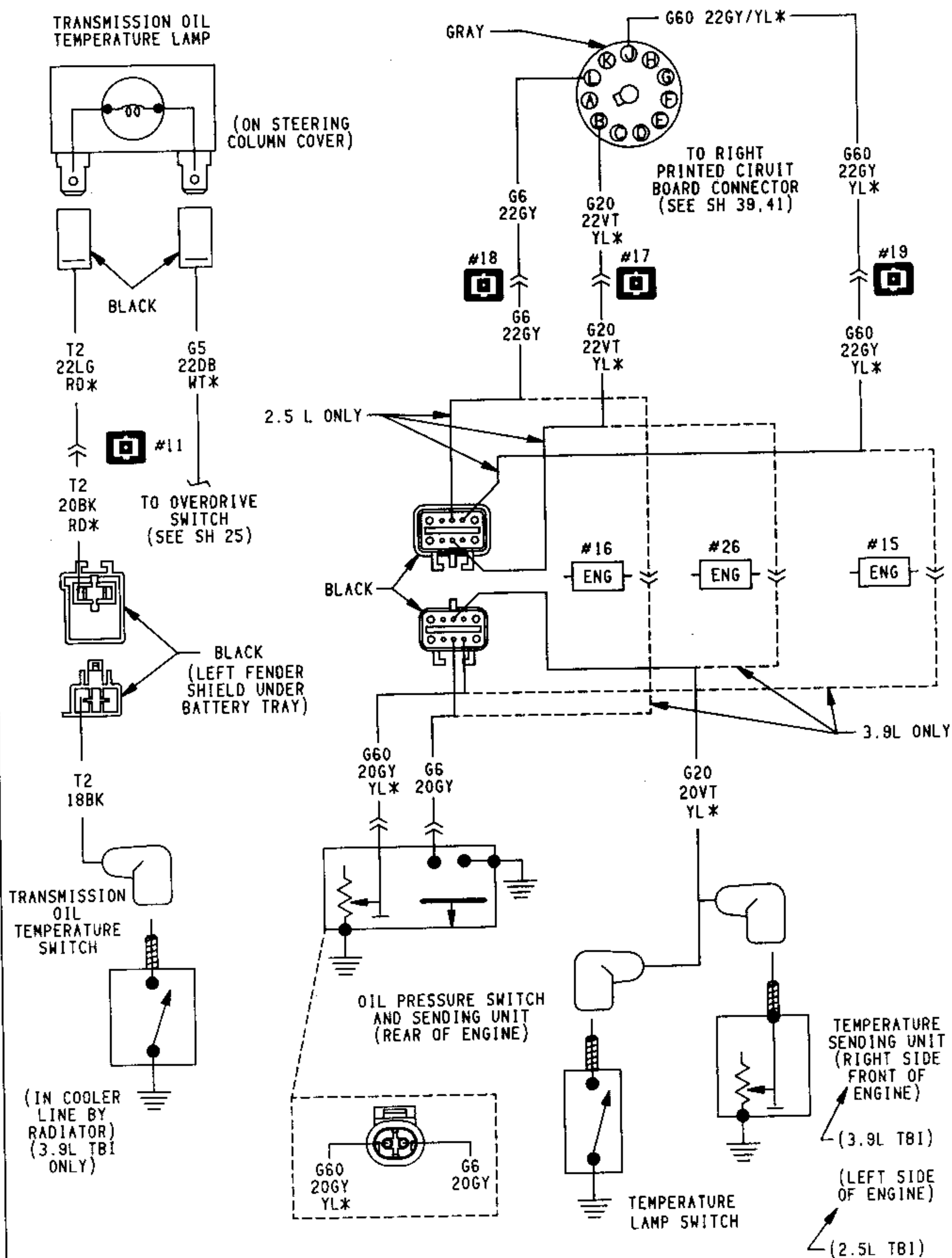


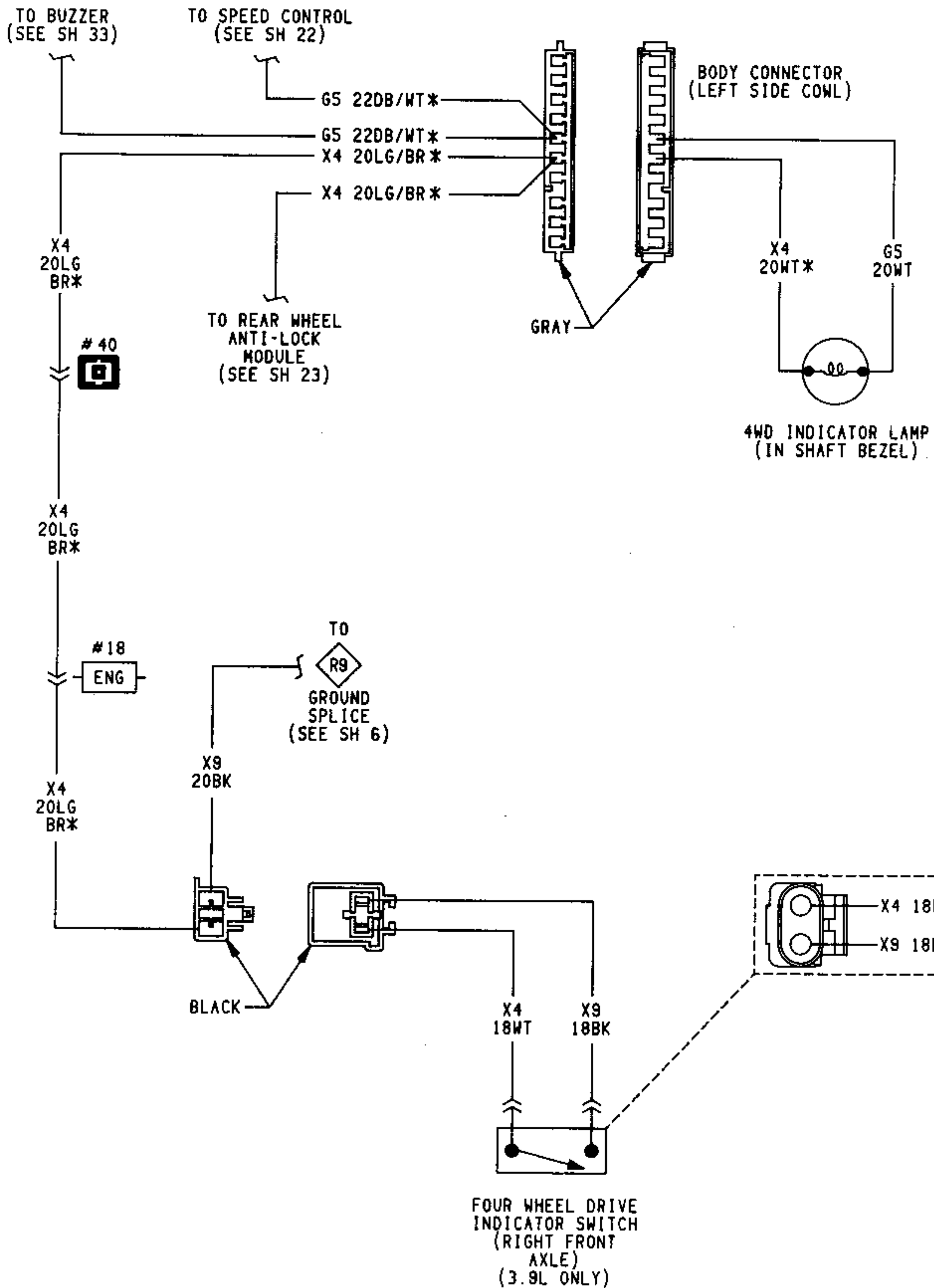


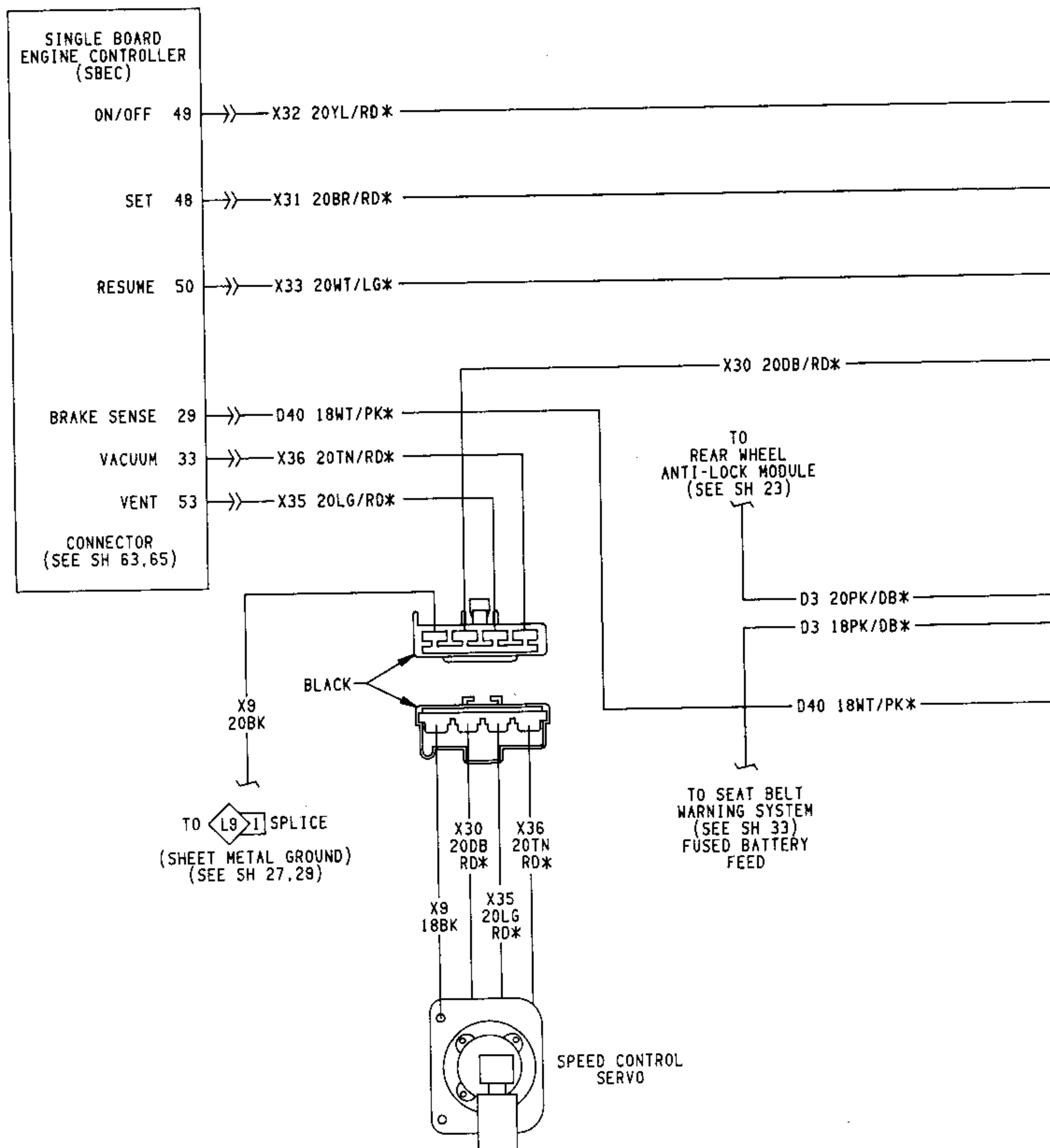


ELECTRONIC FUEL INJECTION
IGNITION SYSTEM 3.9L ENGINE

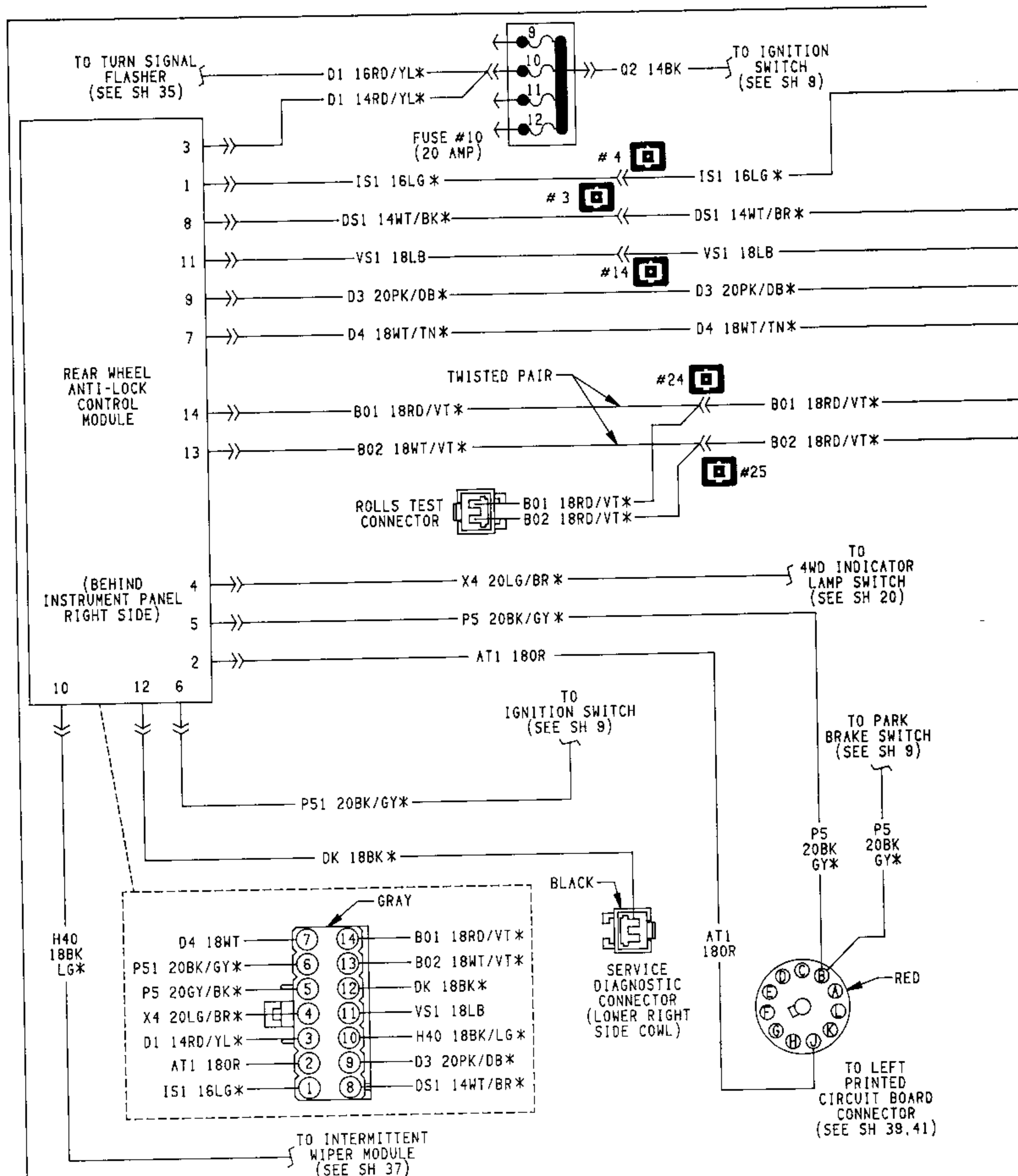
ELECTRONIC FUEL INJECTION
IGNITION SYSTEM 3.9L ENGINE

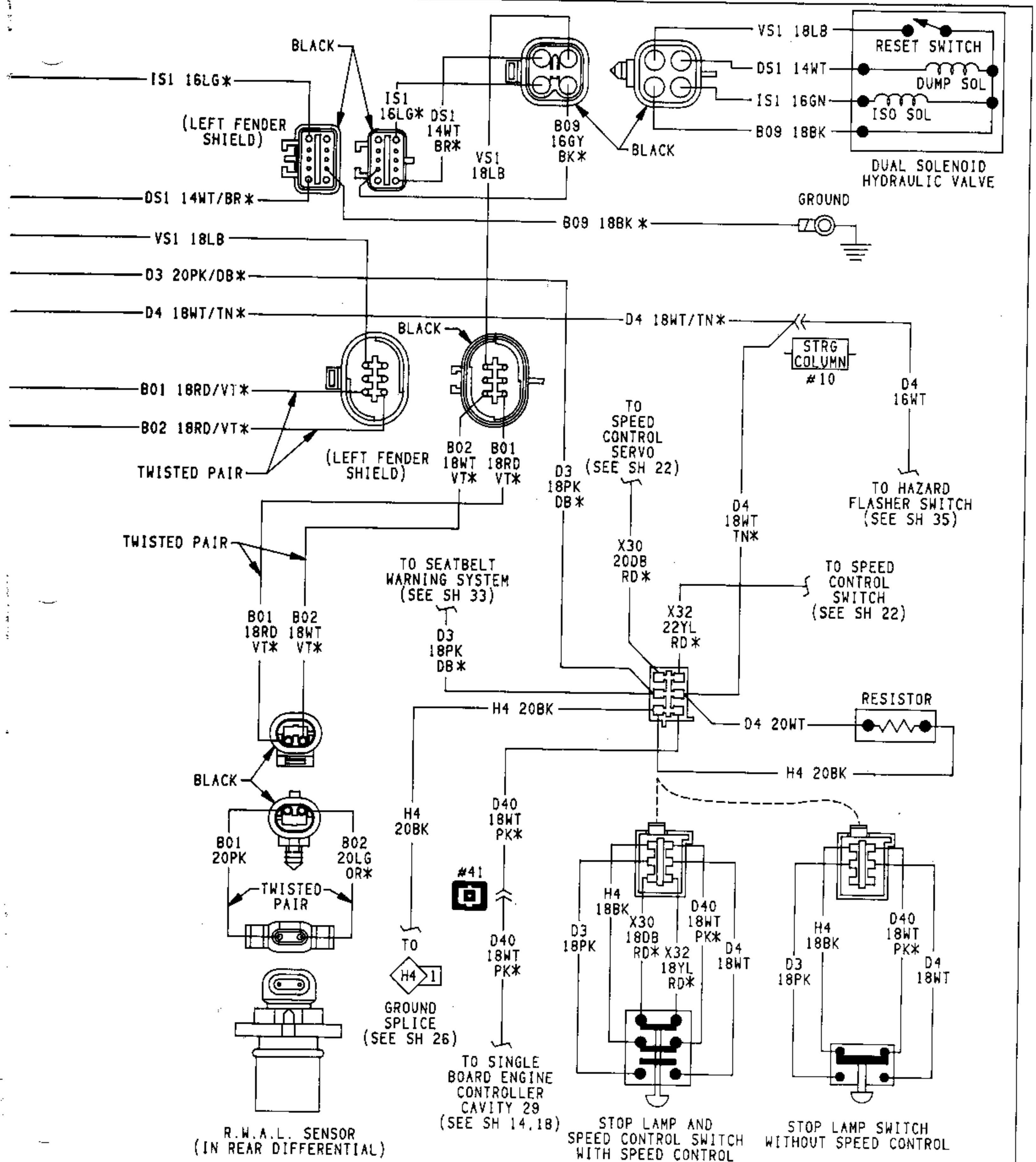


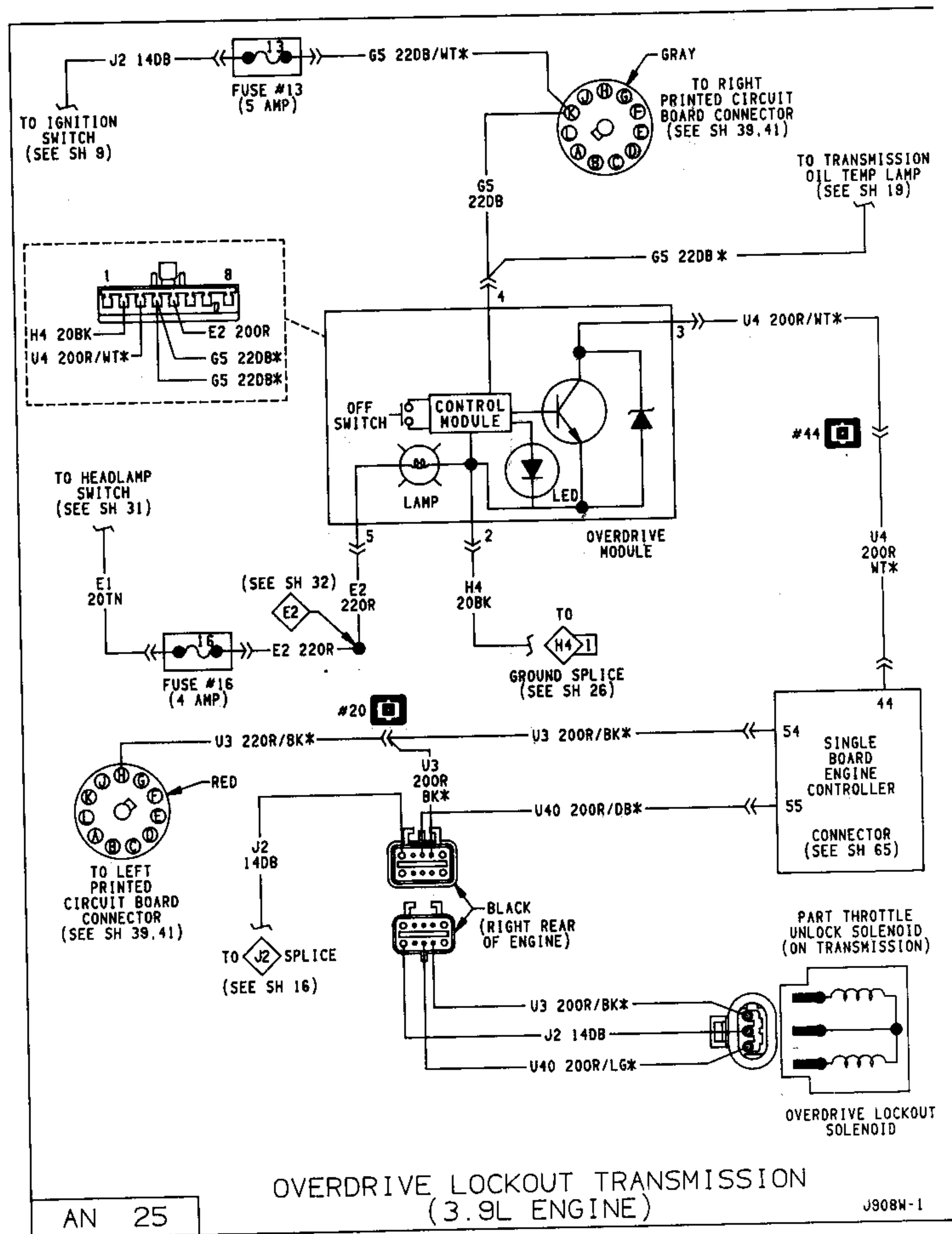
FOUR WHEEL DRIVE
INDICATOR LAMP & SWITCH

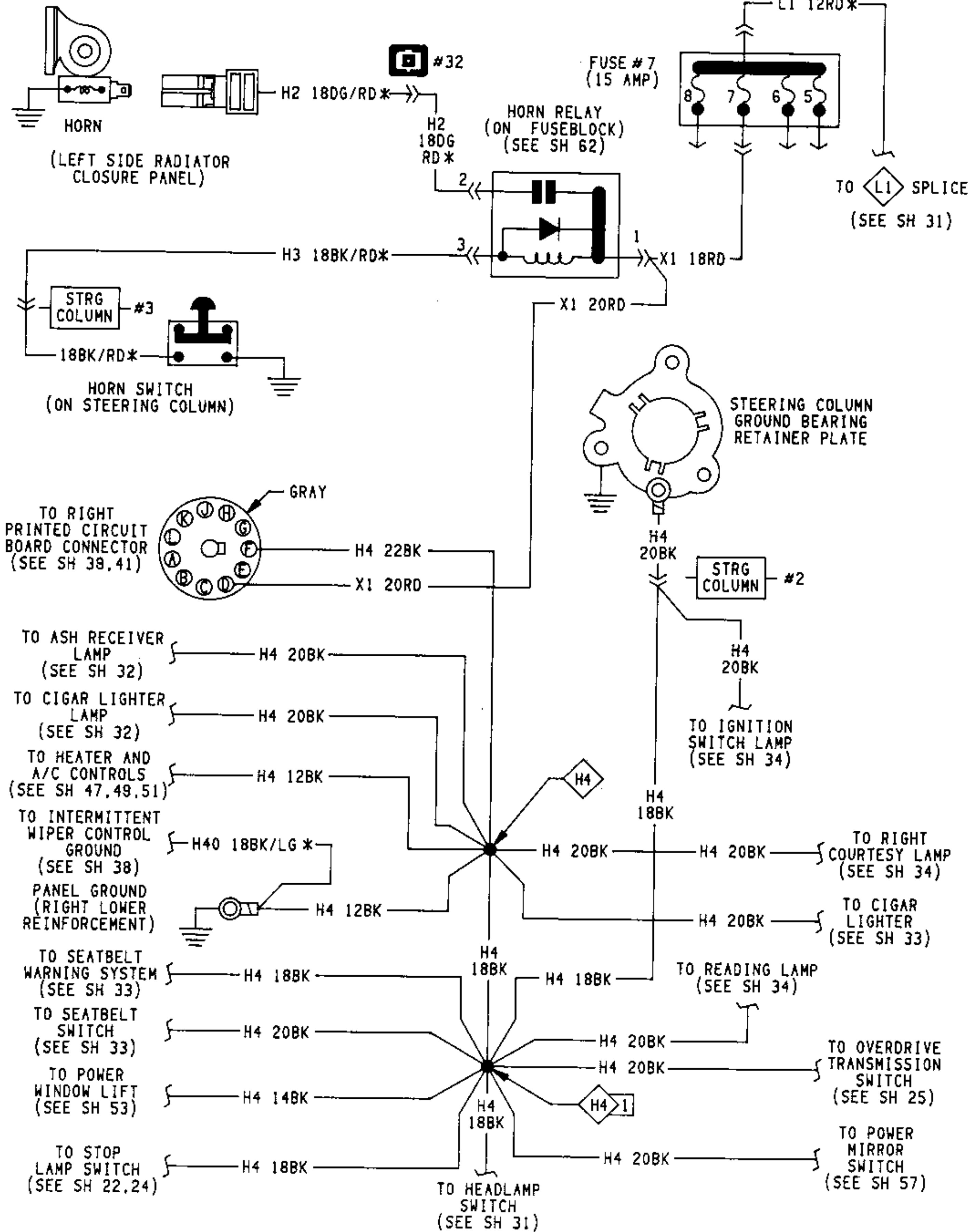


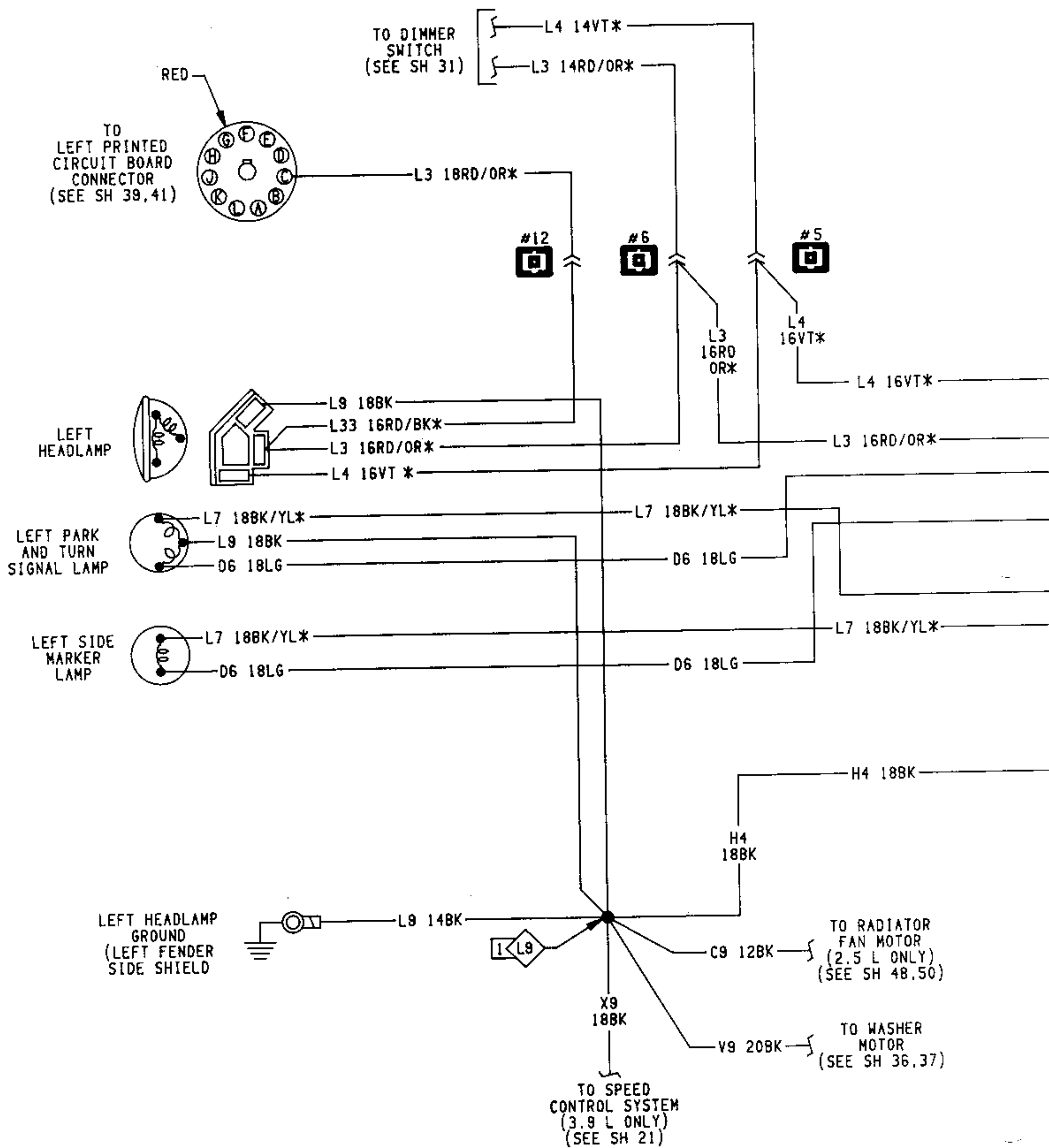


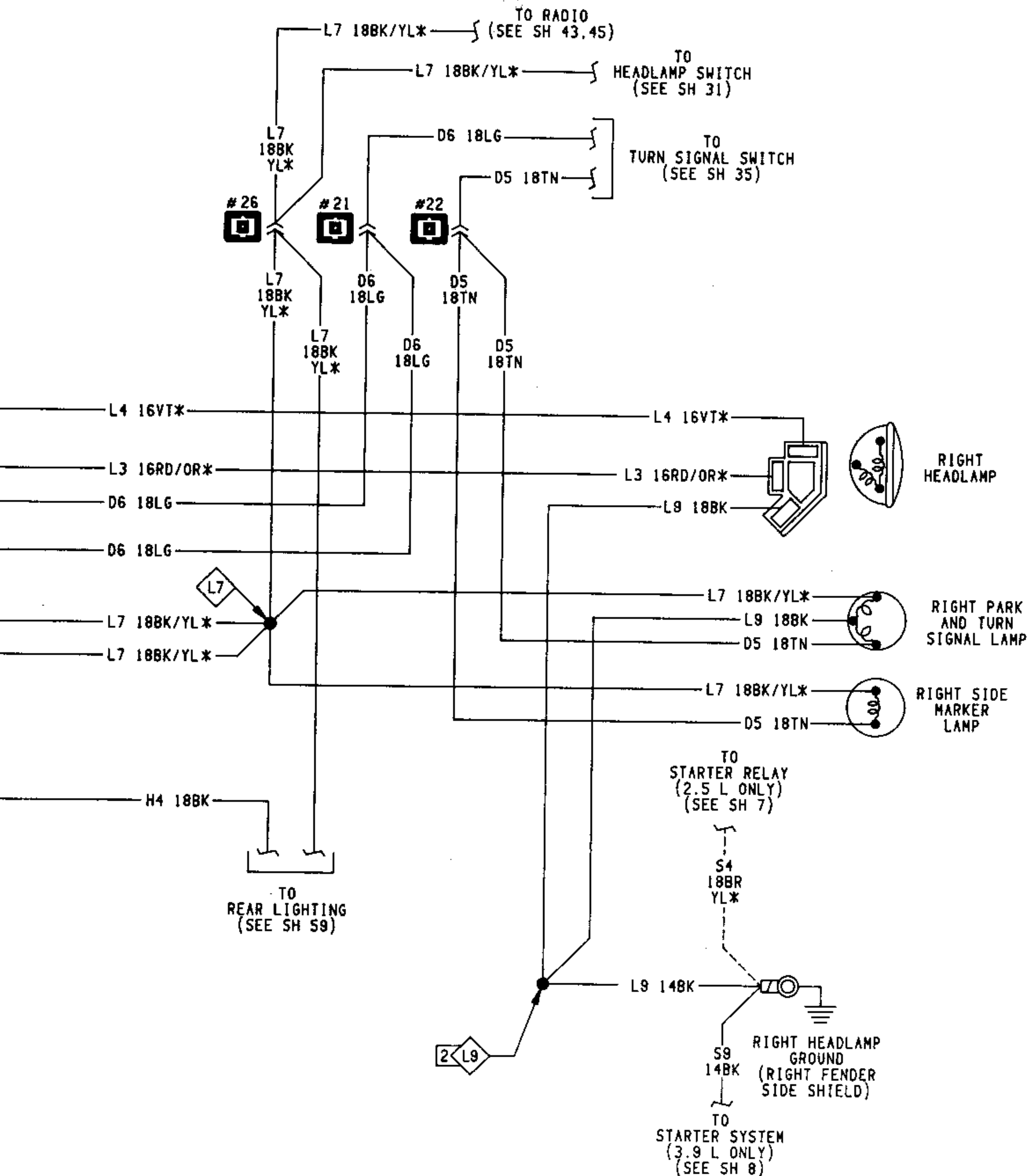


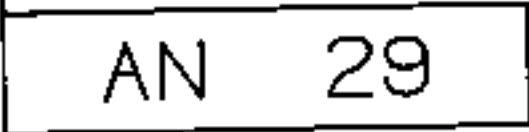


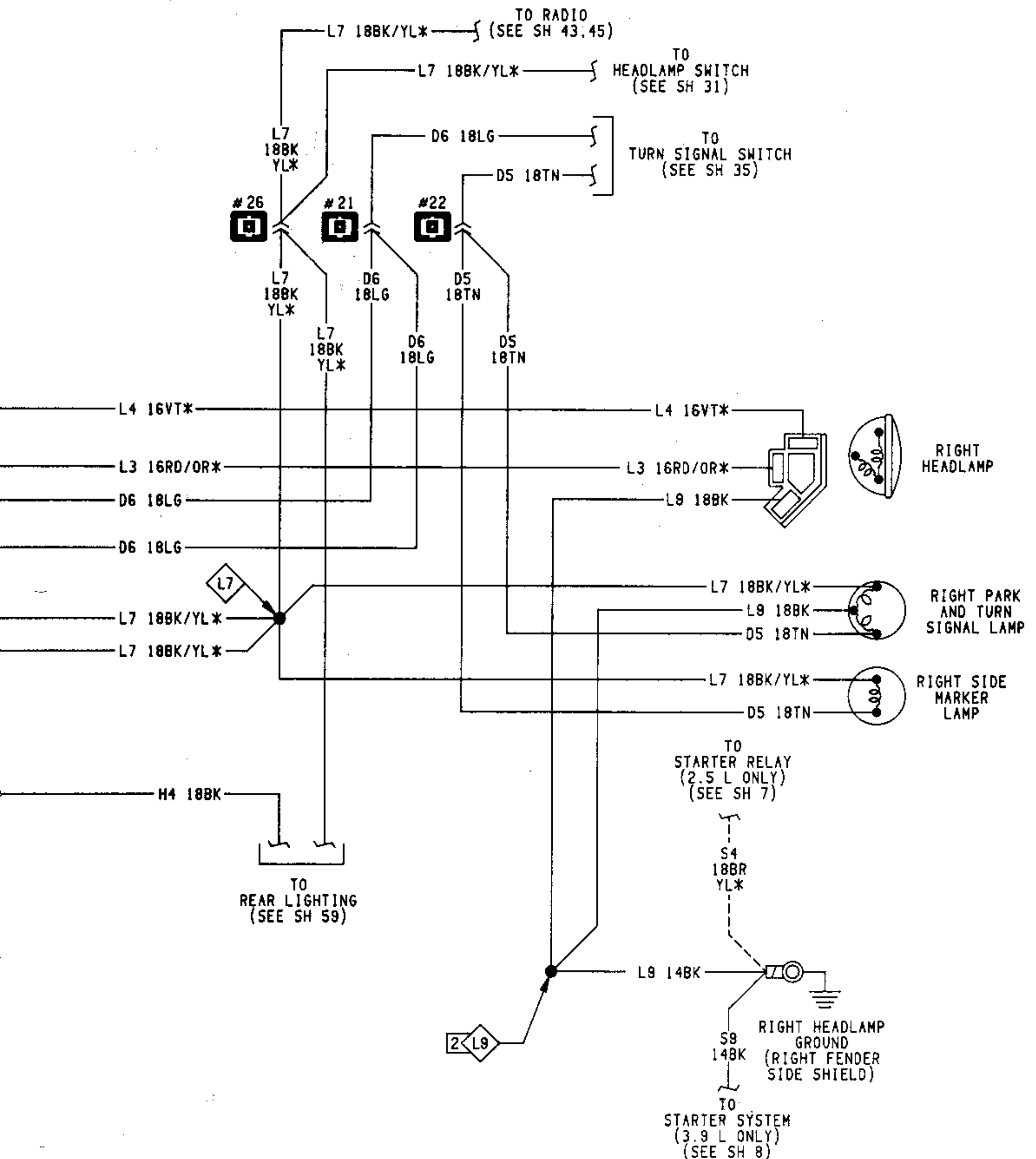




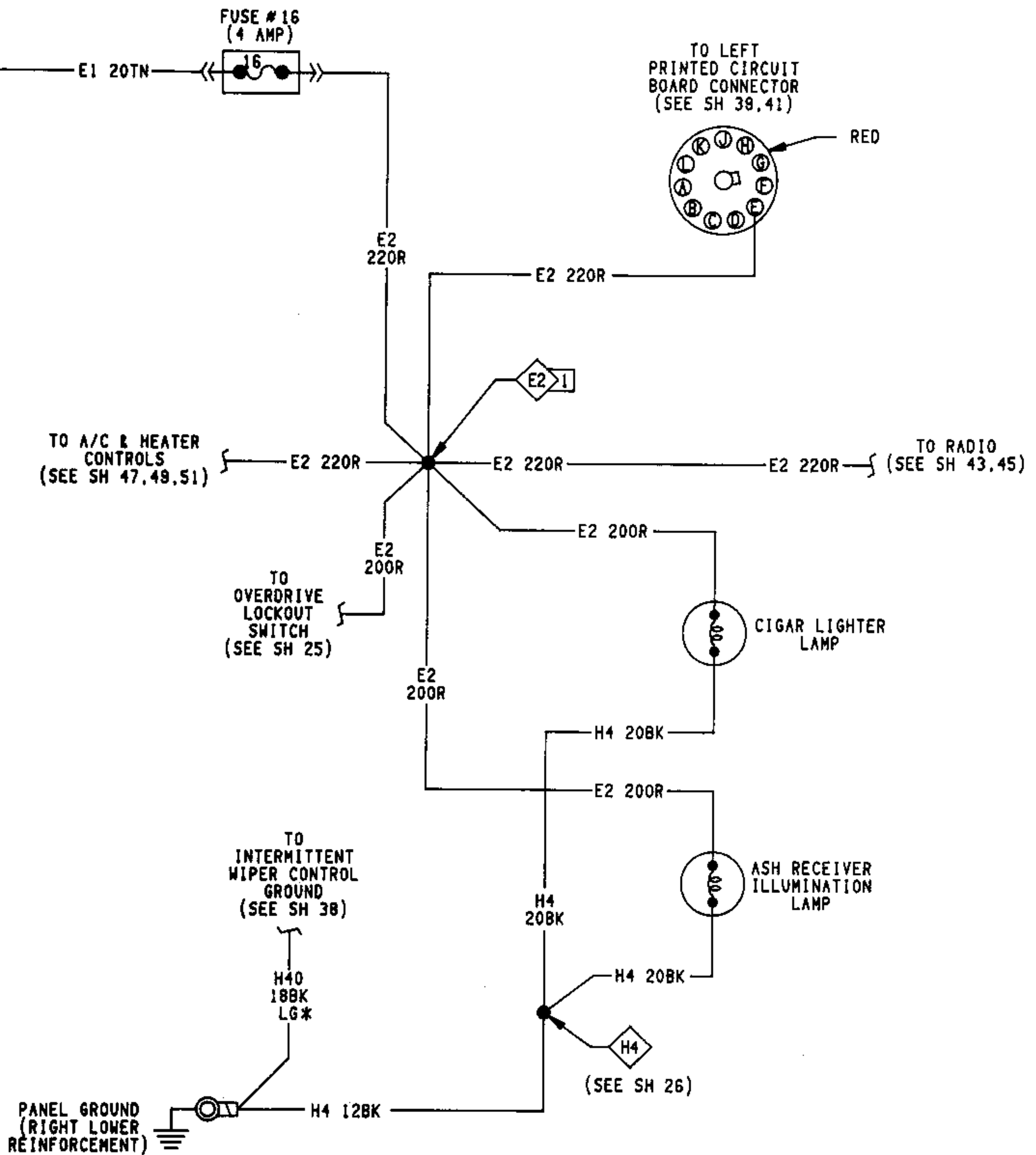




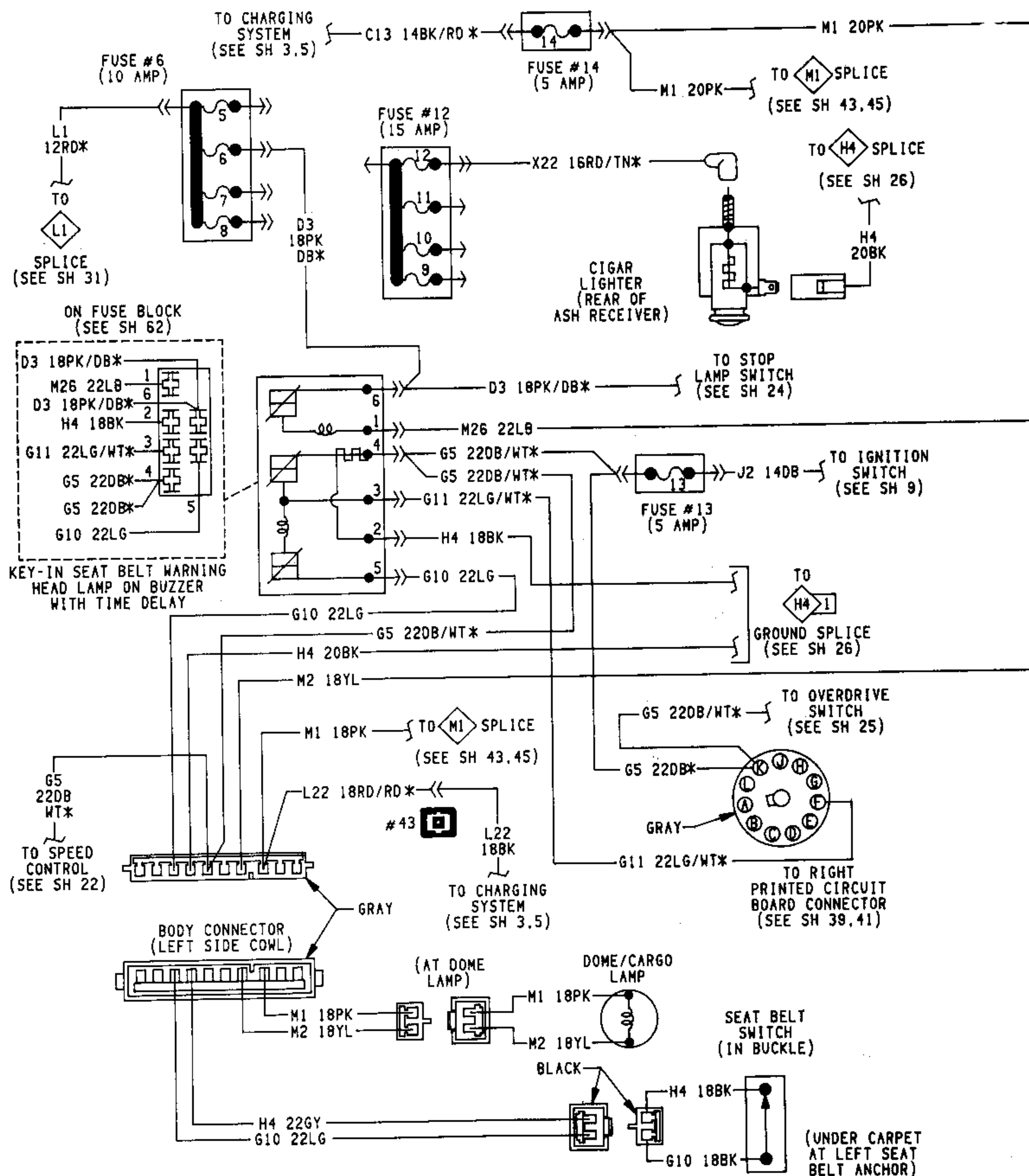


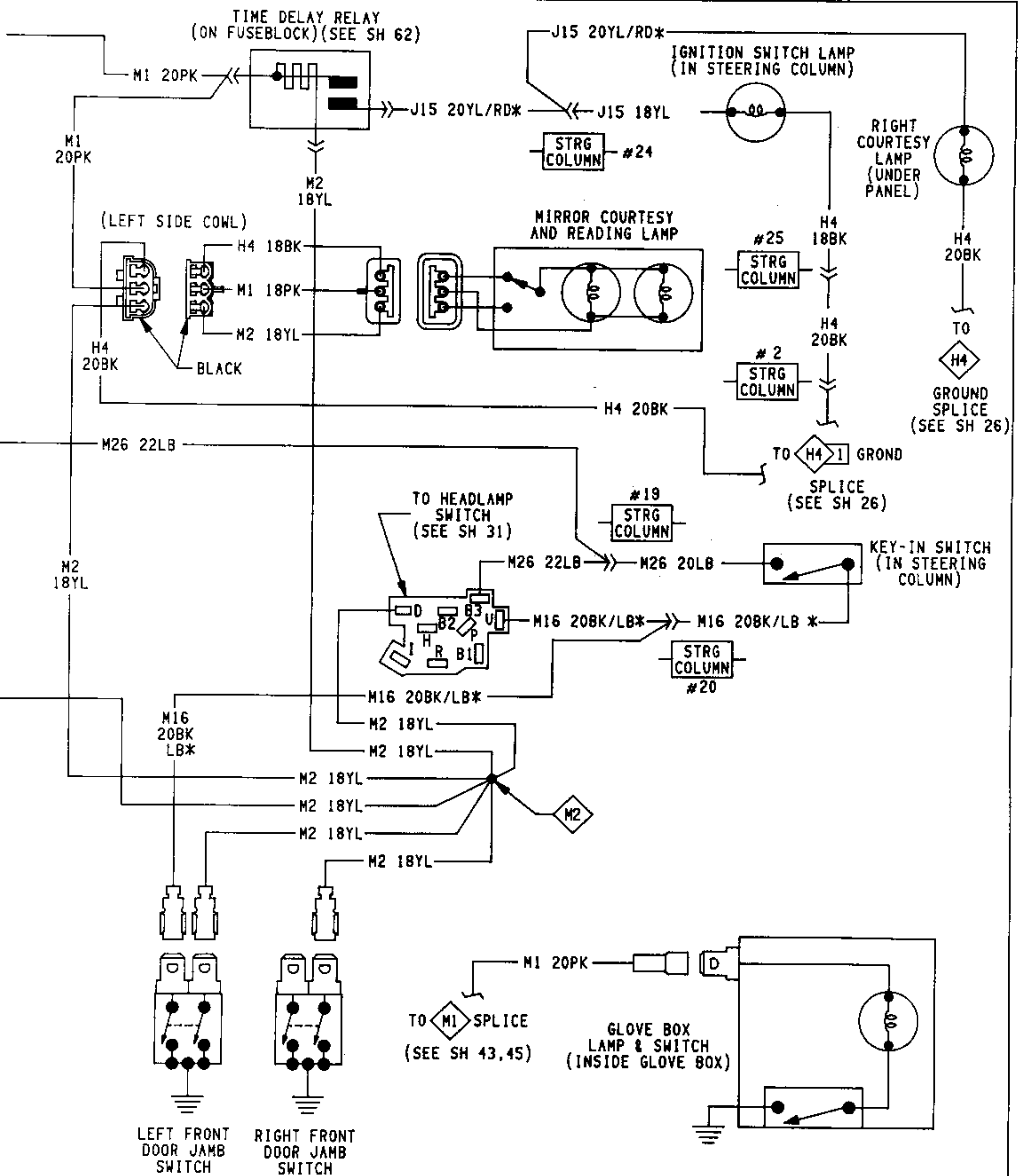


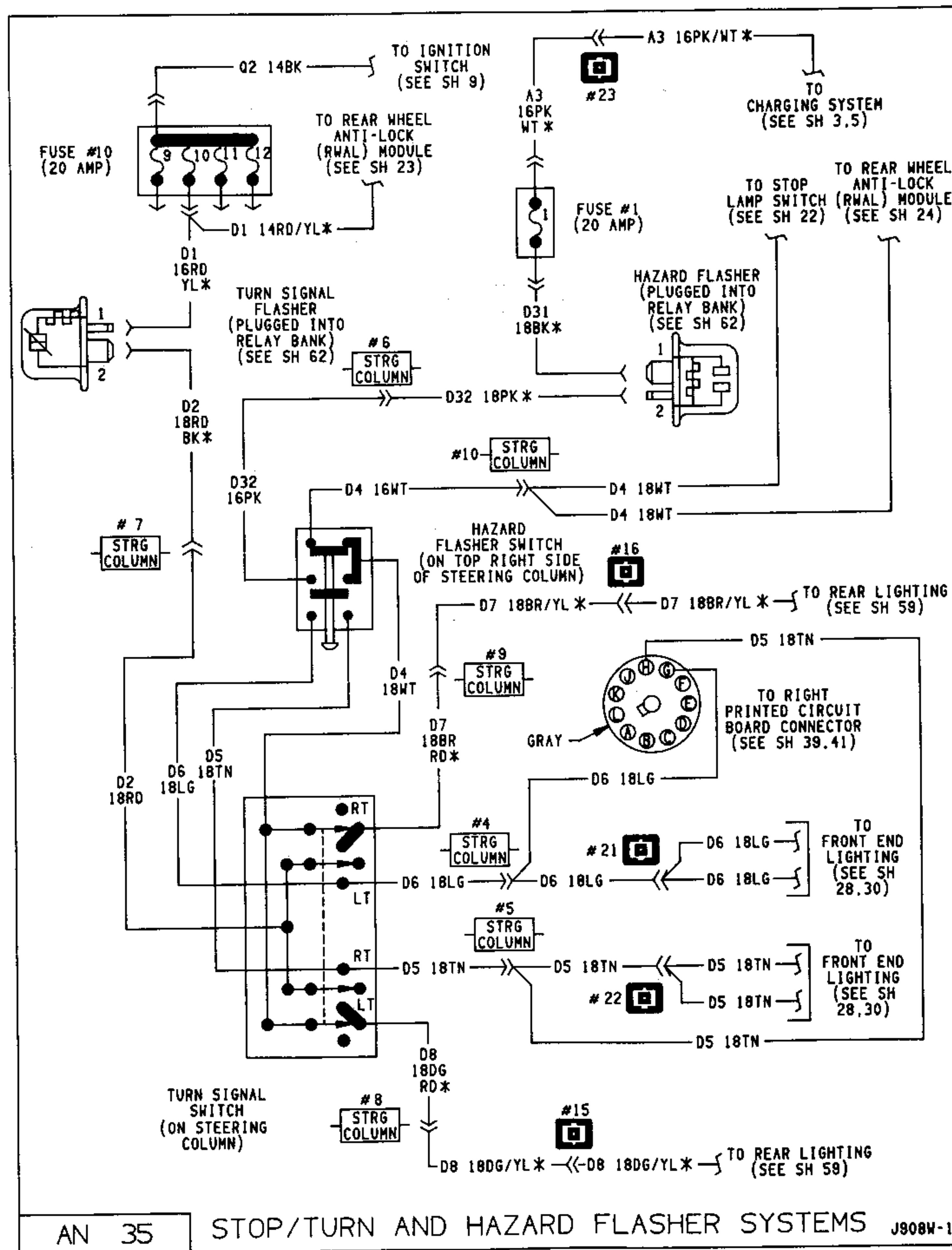


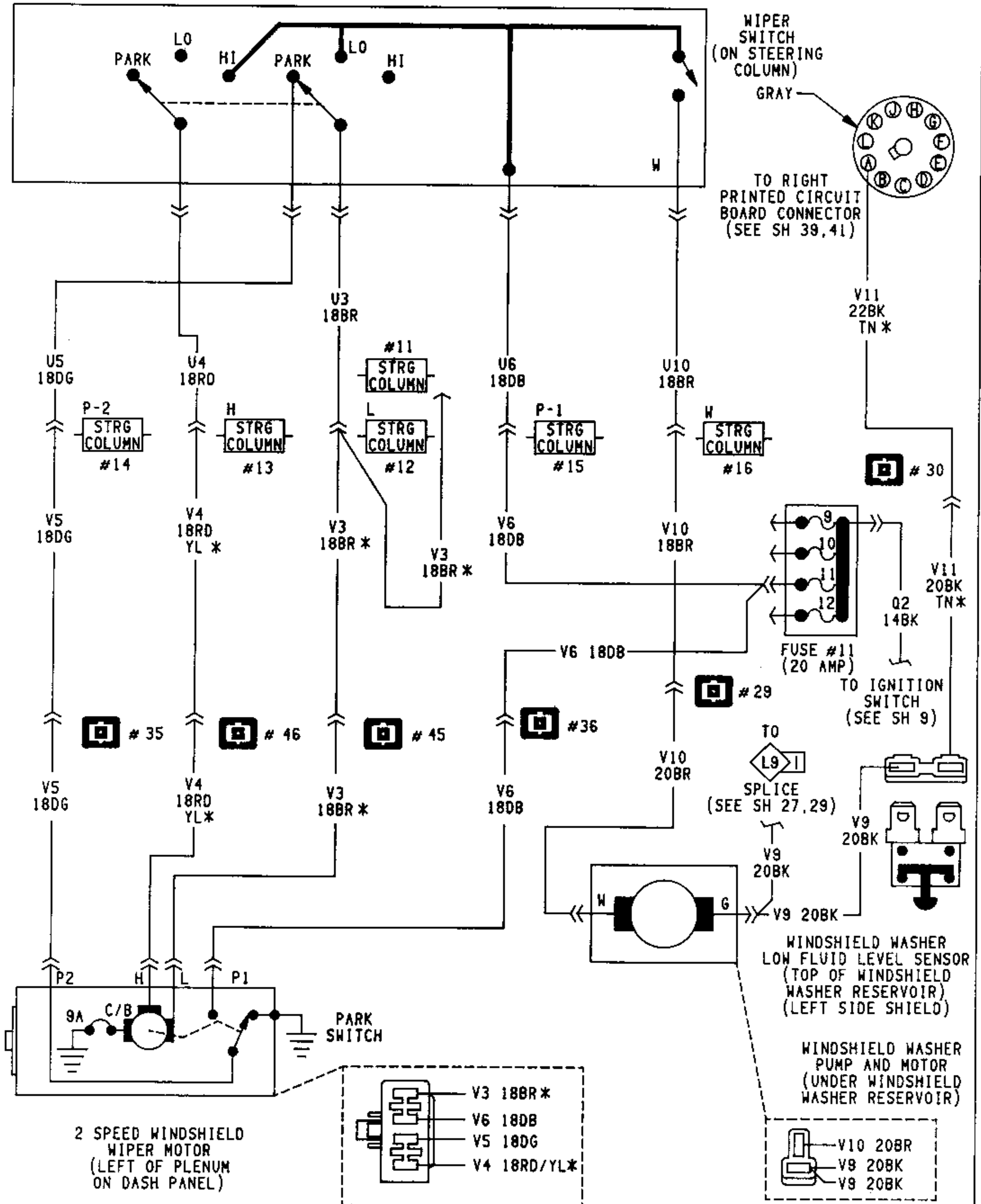


HEADLAMP SWITCH
CONTROLLED INTERIOR LIGHTING

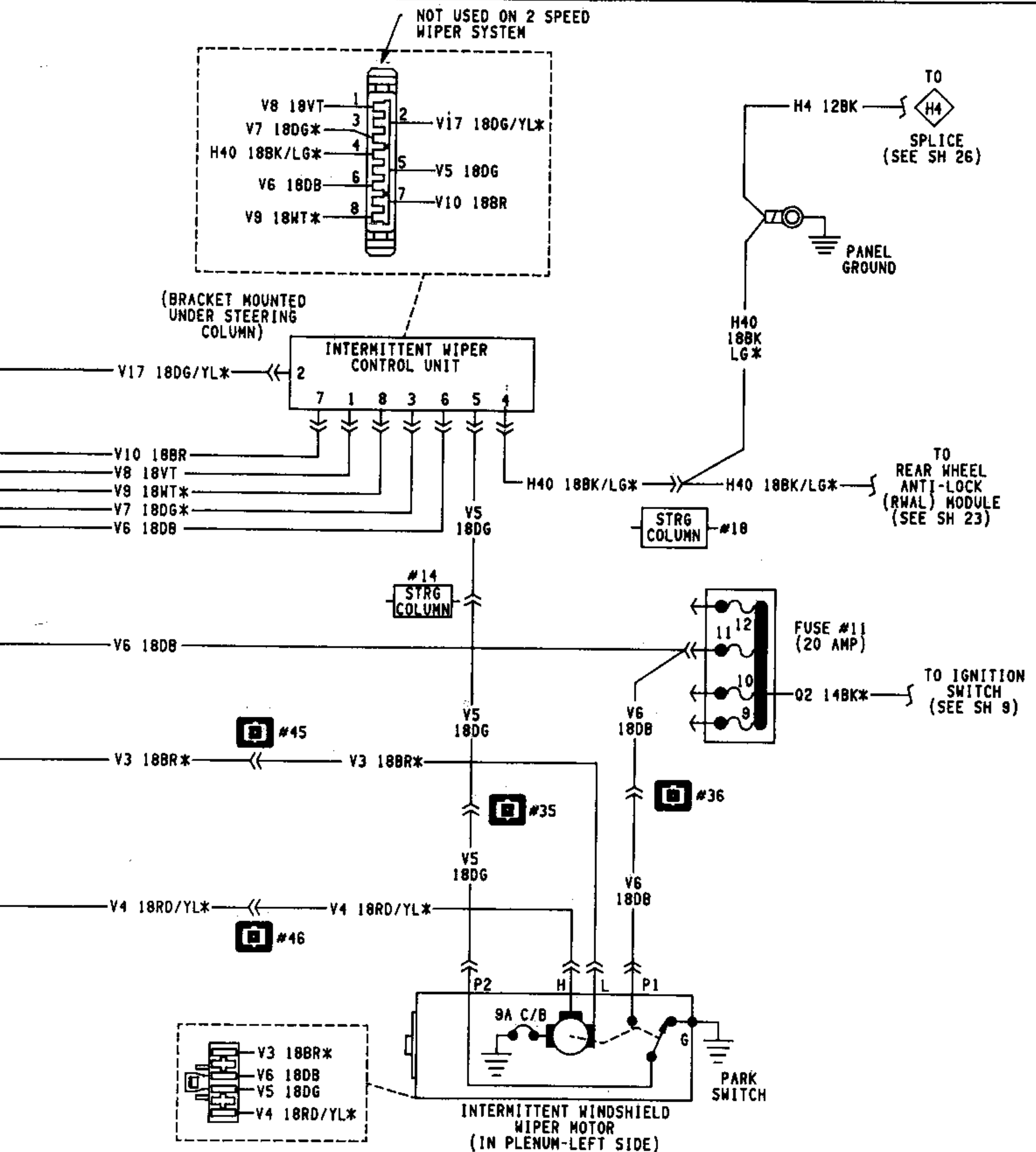


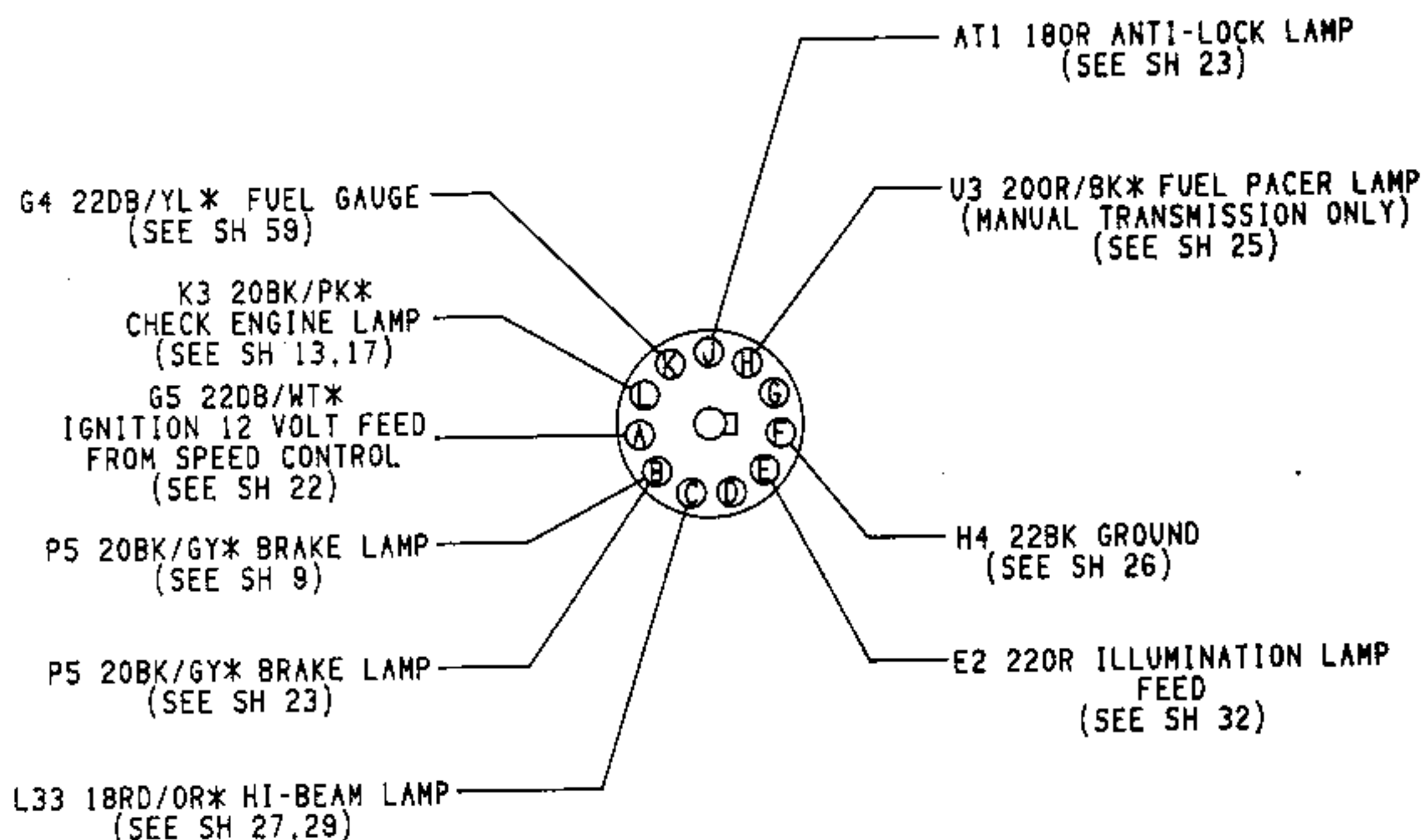
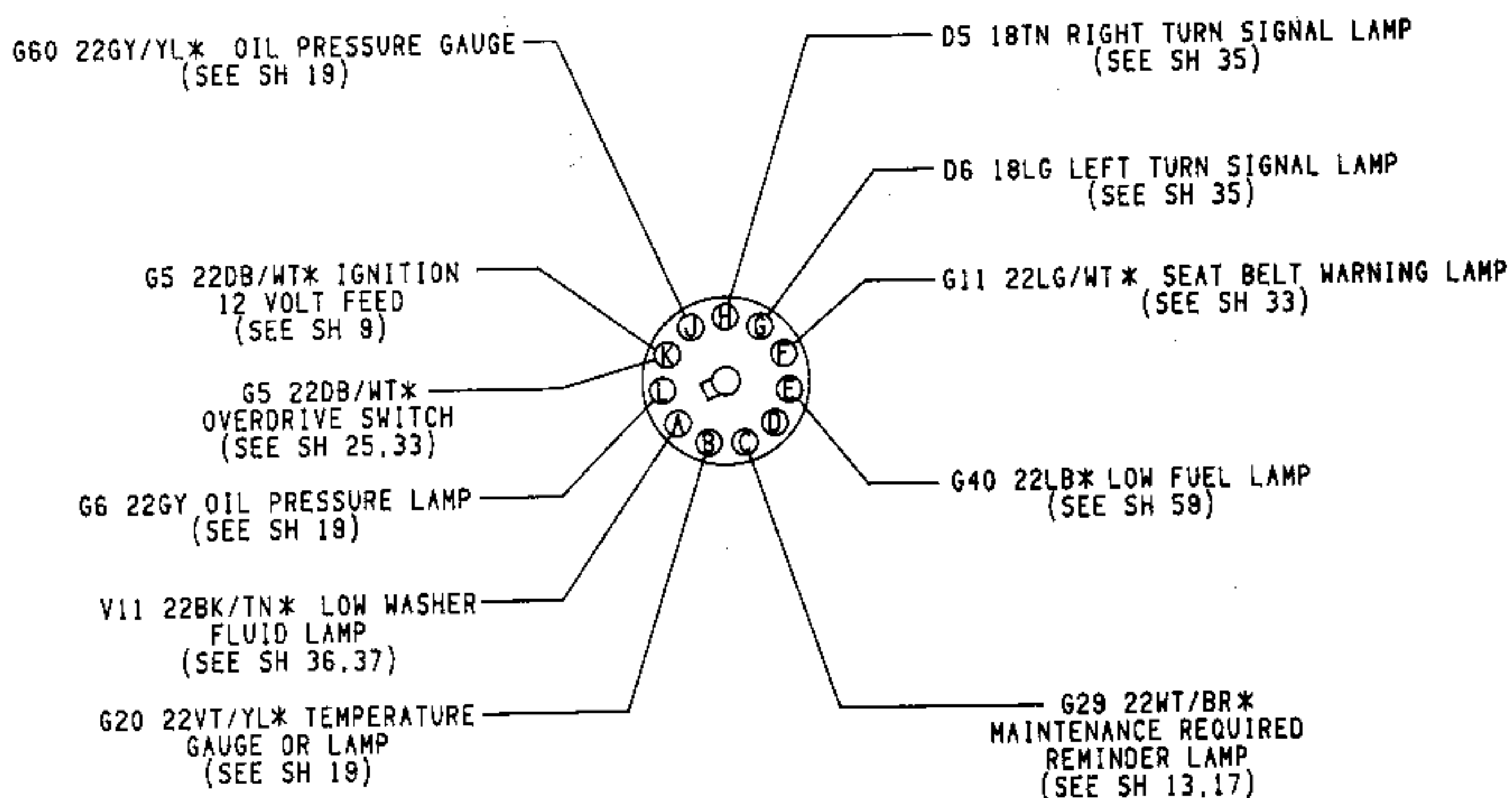


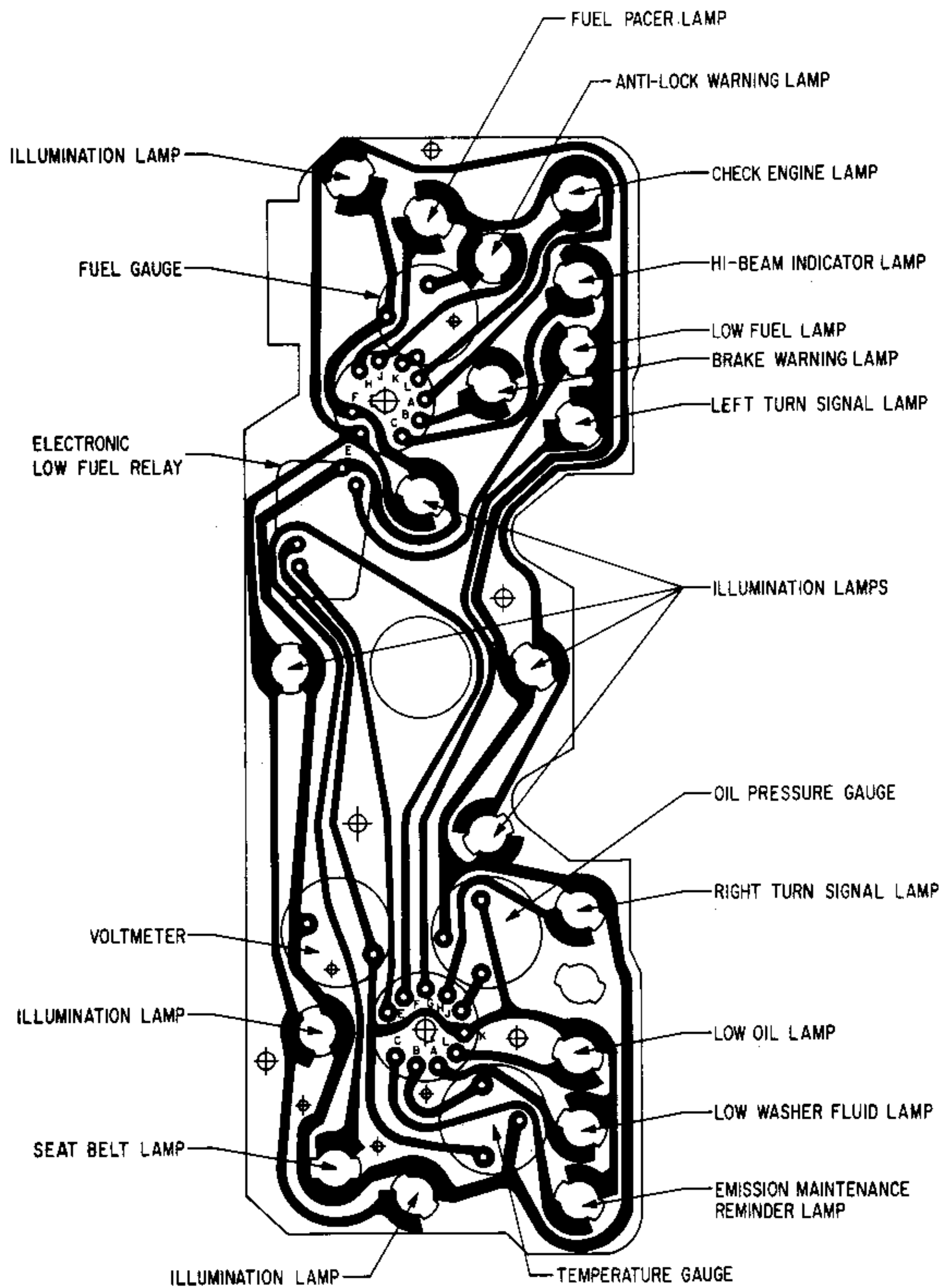




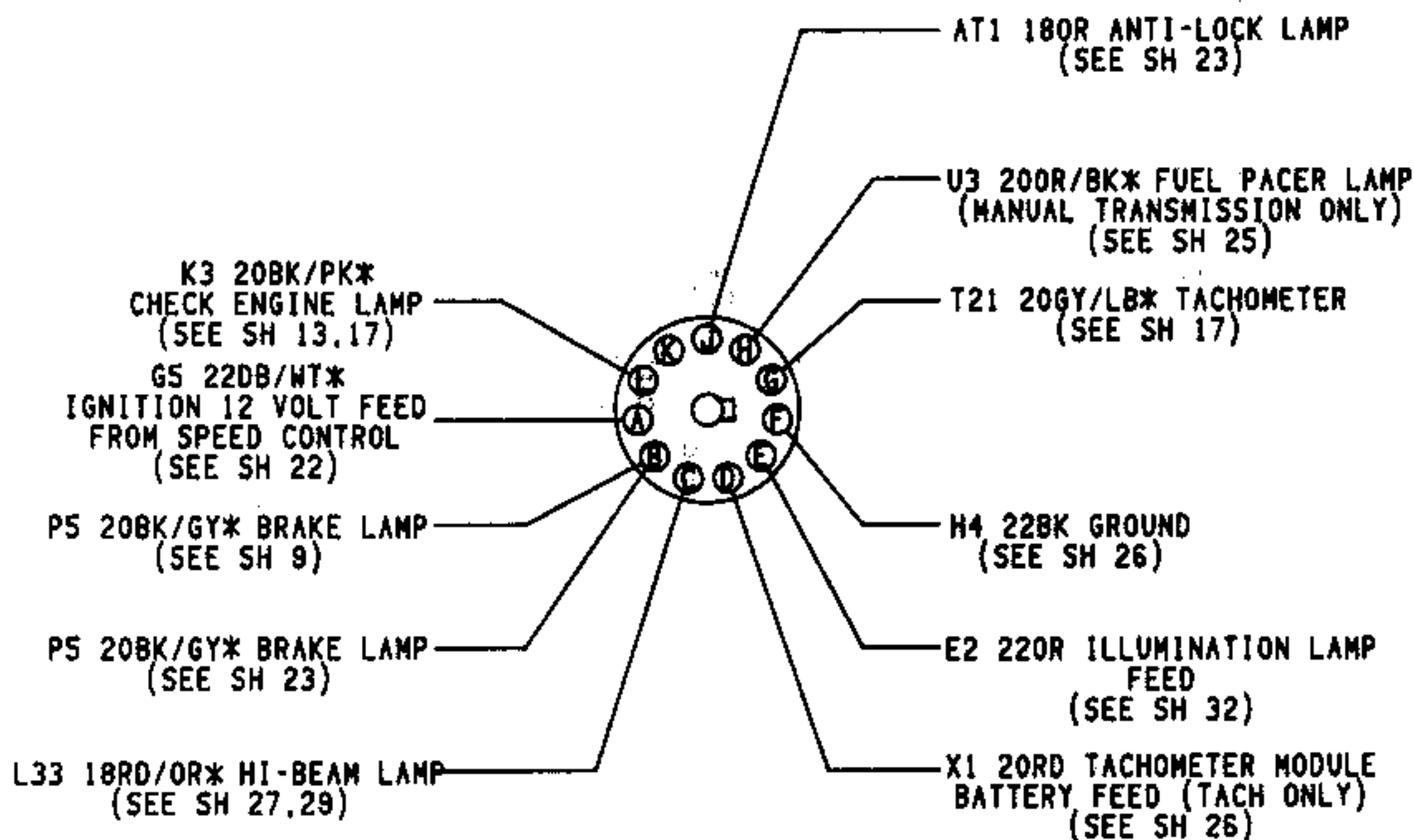
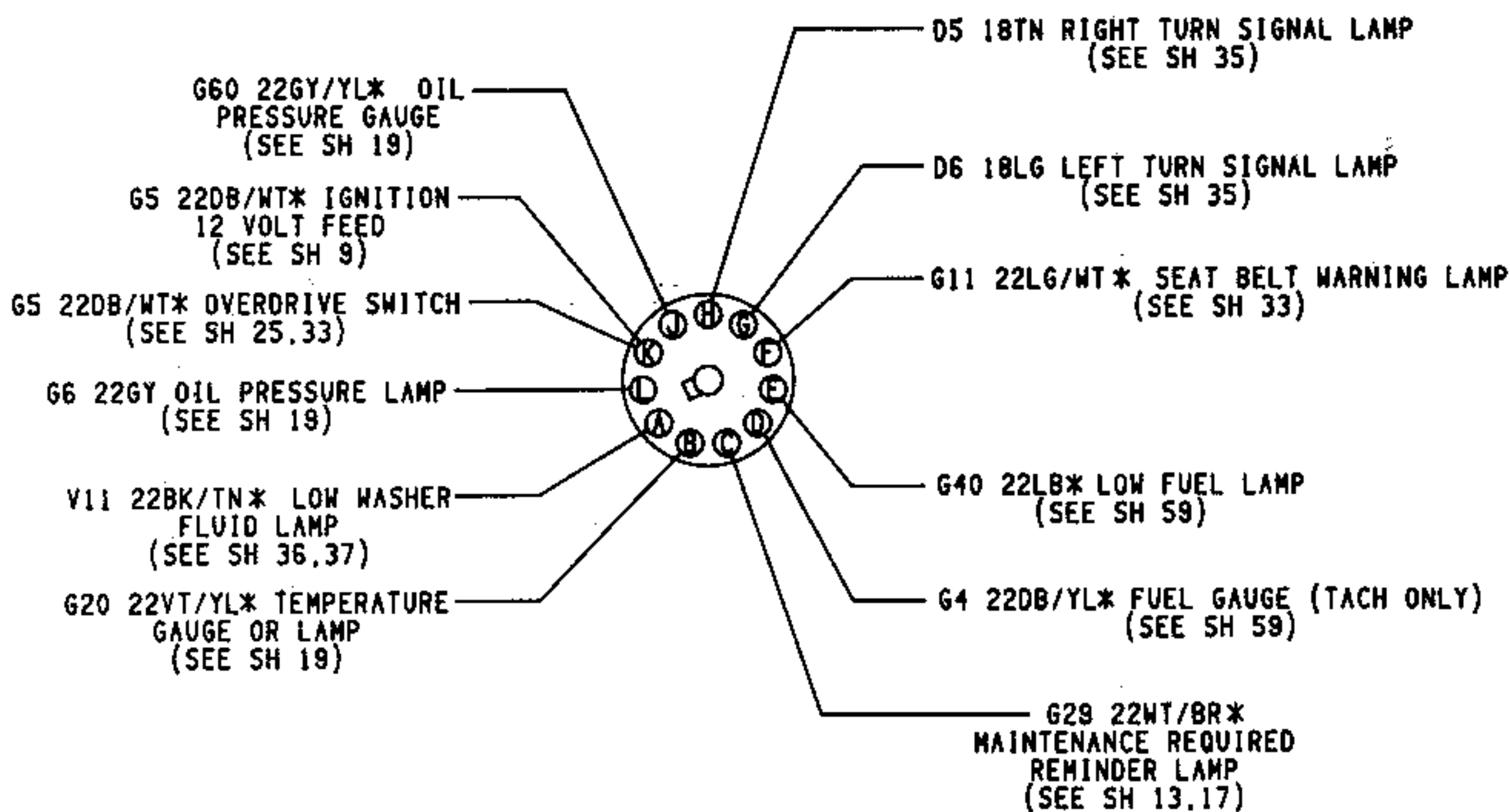


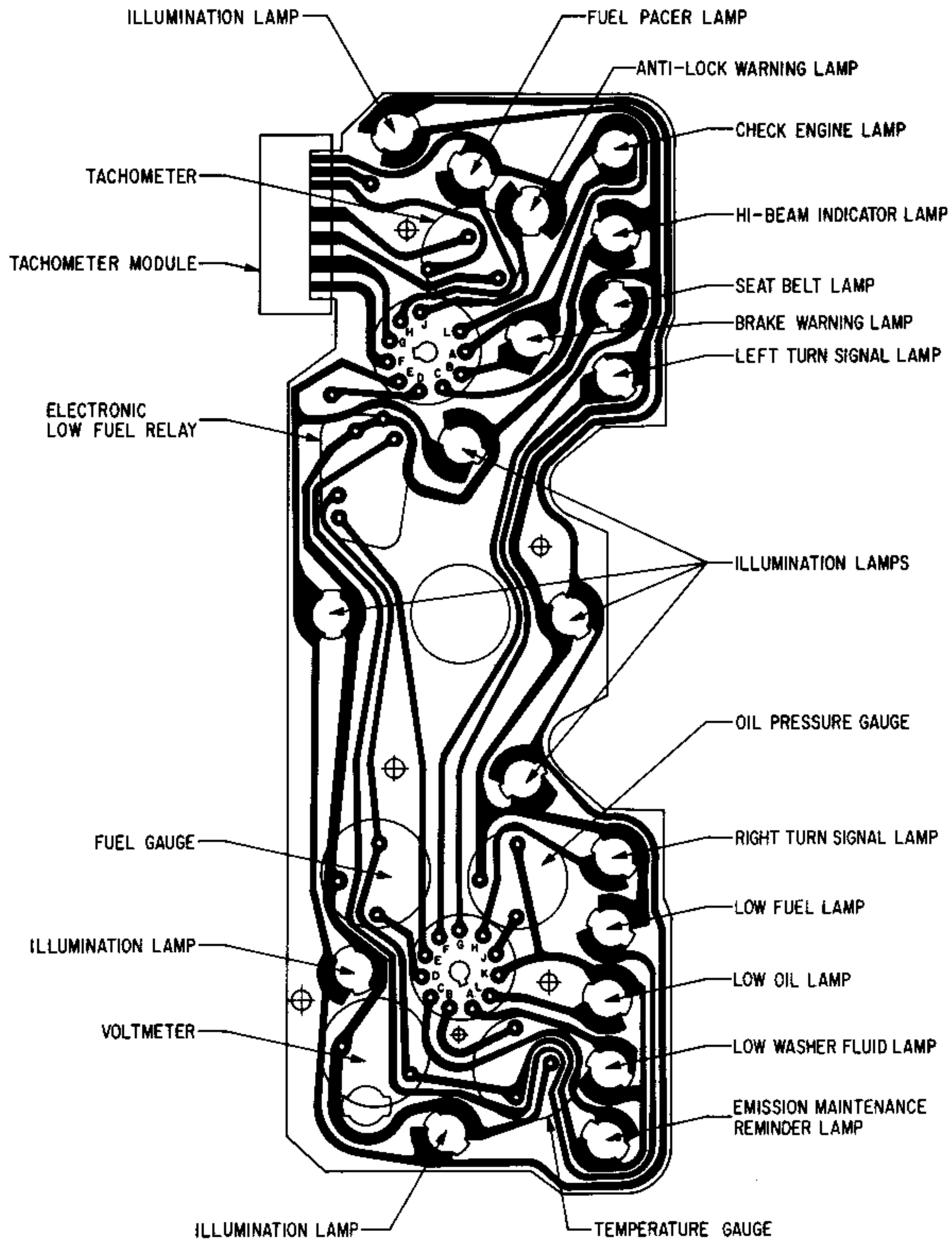


LEFT PRINTED CIRCUIT BOARD CONNECTOR WITHOUT TACHOMETER
(RED)

RIGHT PRINTED CIRCUIT BOARD CONNECTOR WITHOUT TACHOMETER
(GRAY)


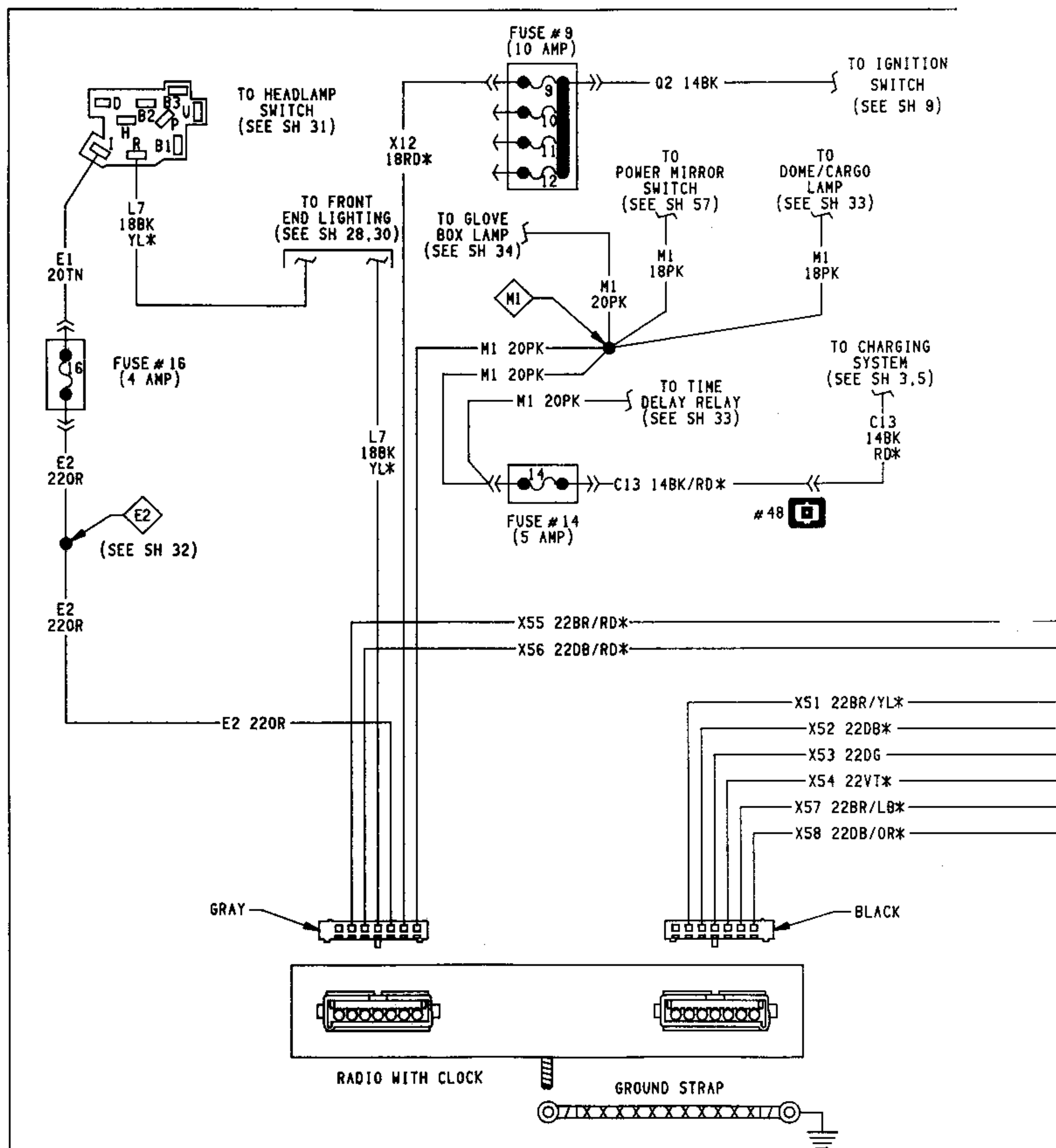


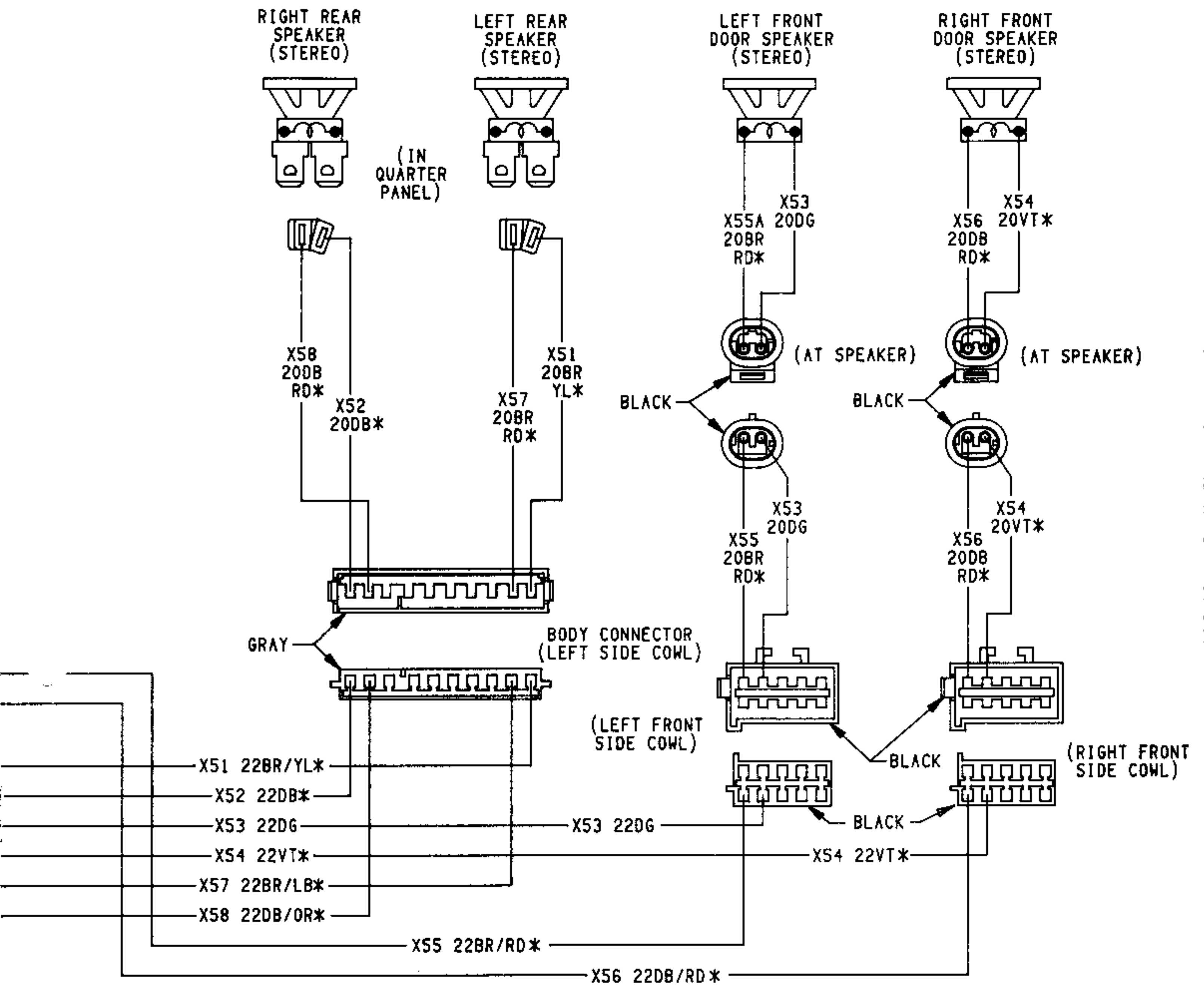
PRINTED CIRCUIT BOARD
WITHOUT TACHOMETER

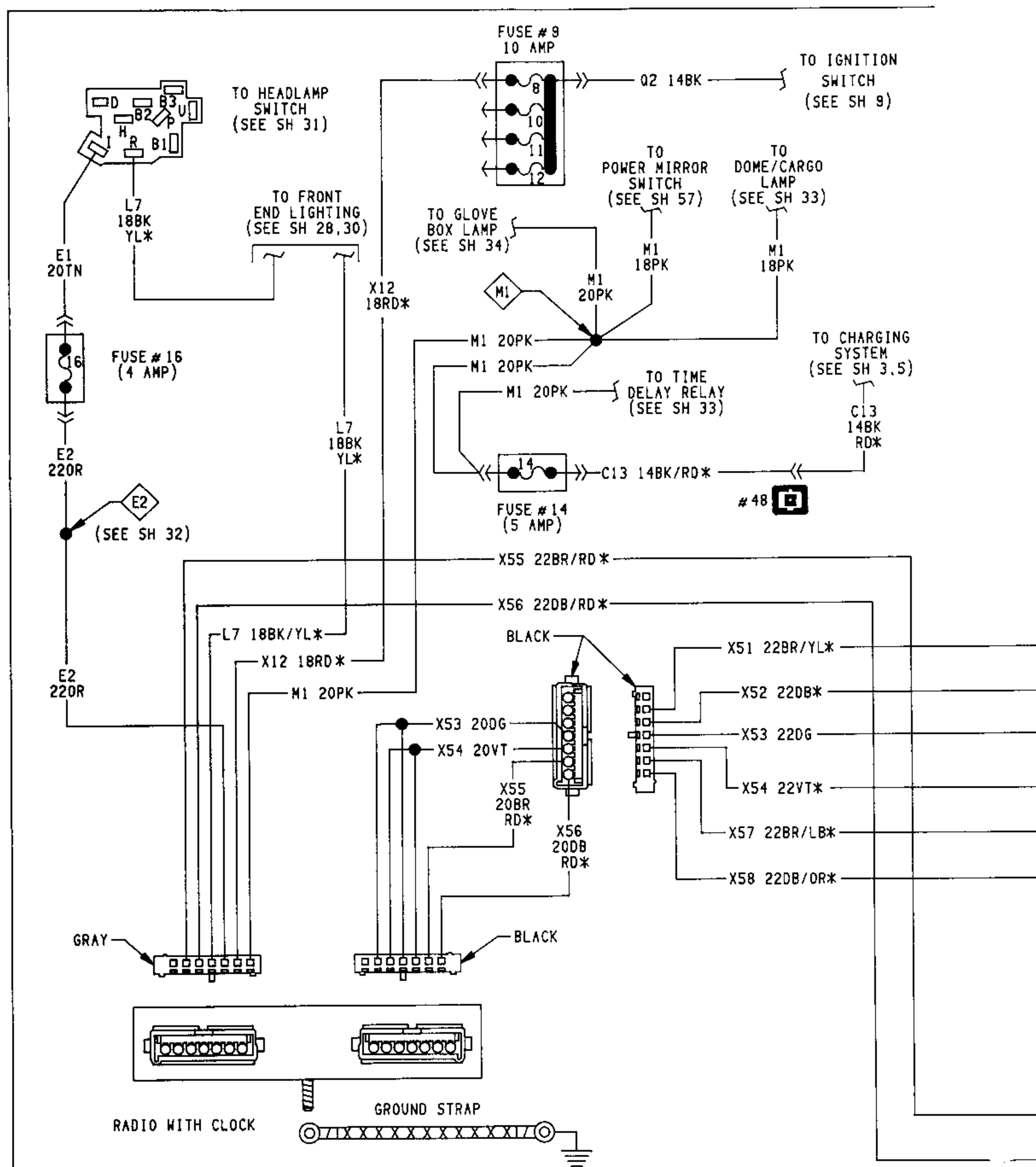
LEFT PRINTED CIRCUIT BOARD CONNECTOR WITH TACHOMETER
(RED)

RIGHT PRINTED CIRCUIT BOARD CONNECTOR WITH TACHOMETER
(GRAY)


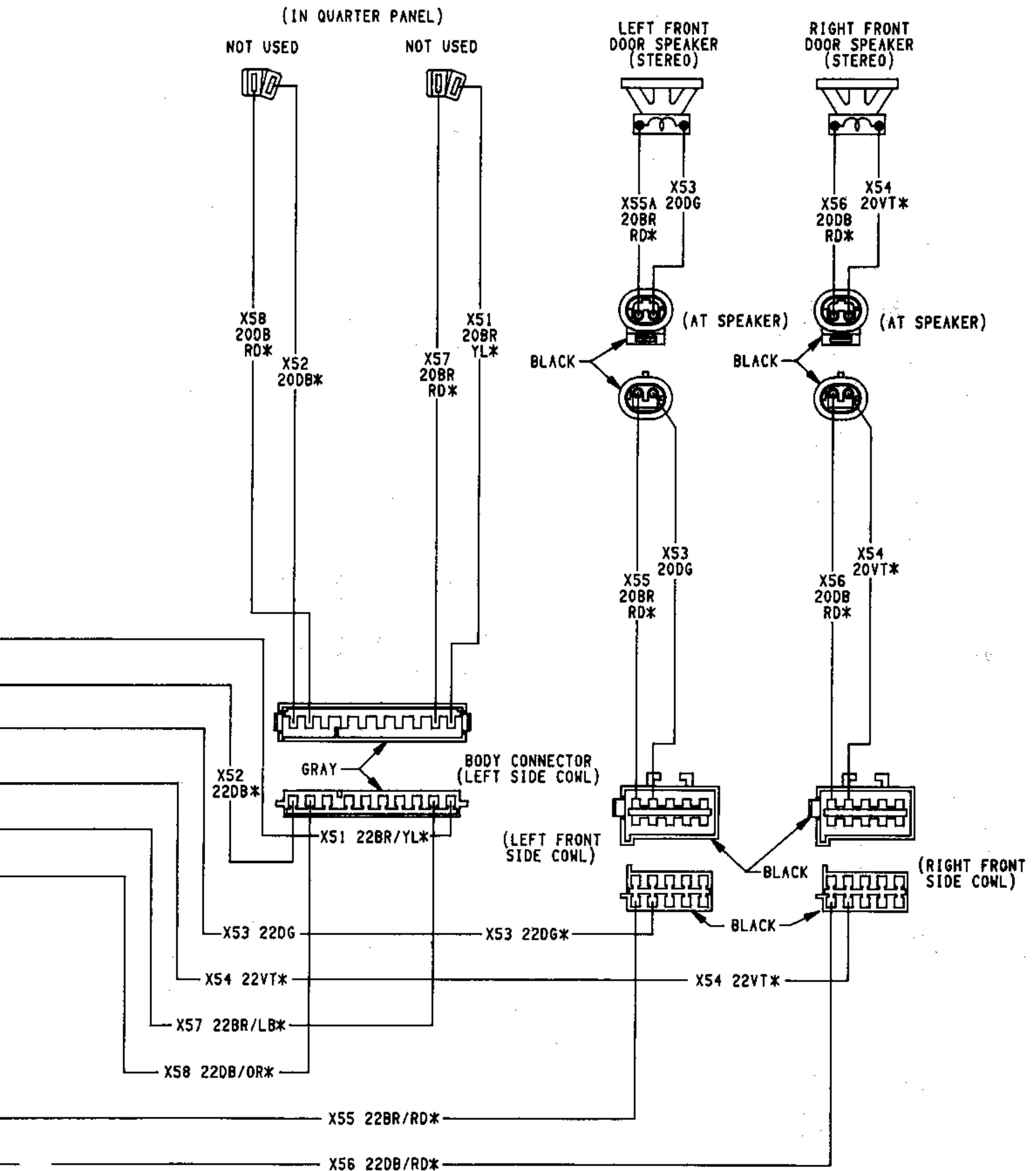


PRINTED CIRCUIT BOARD
WITH TACHOMETER

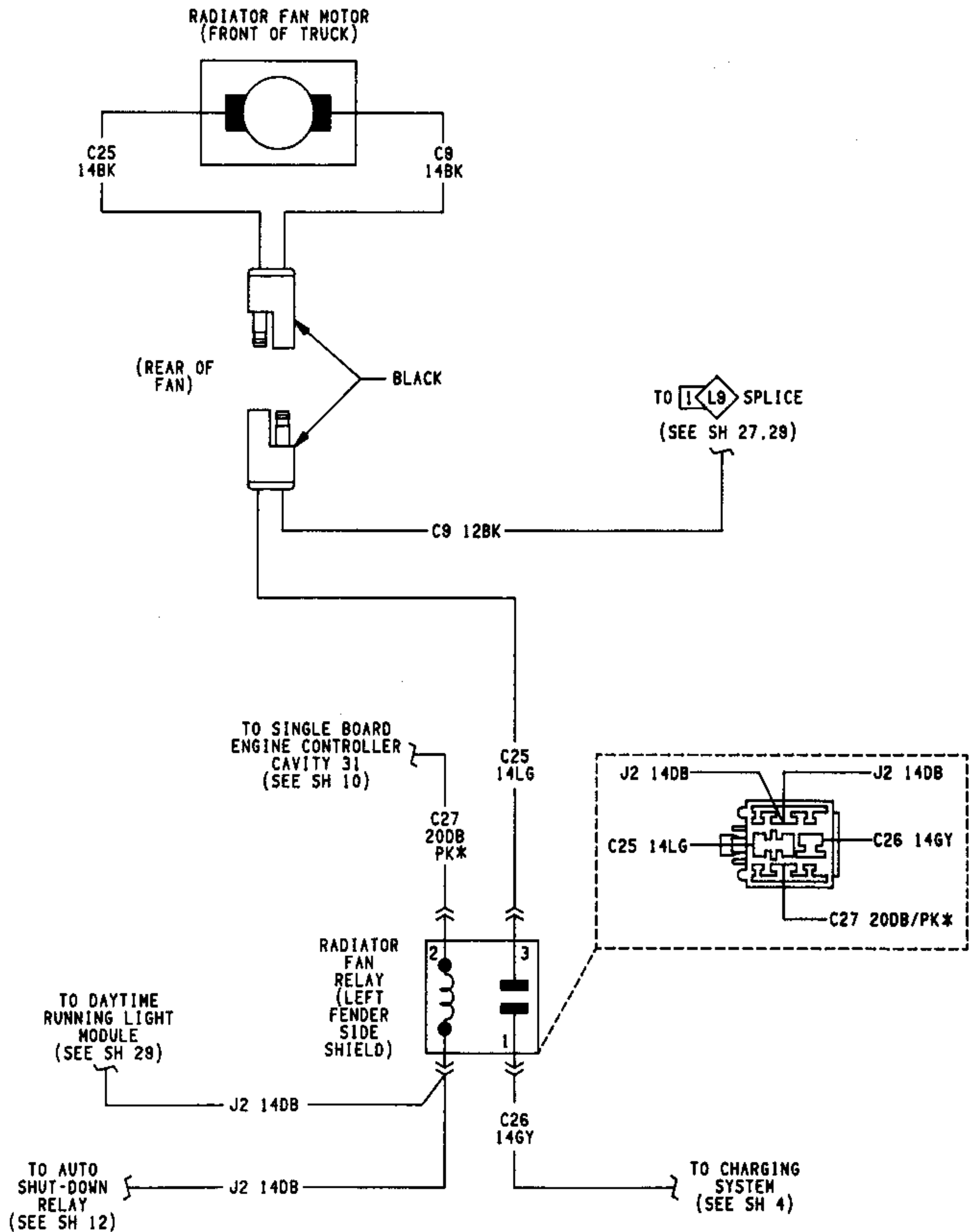




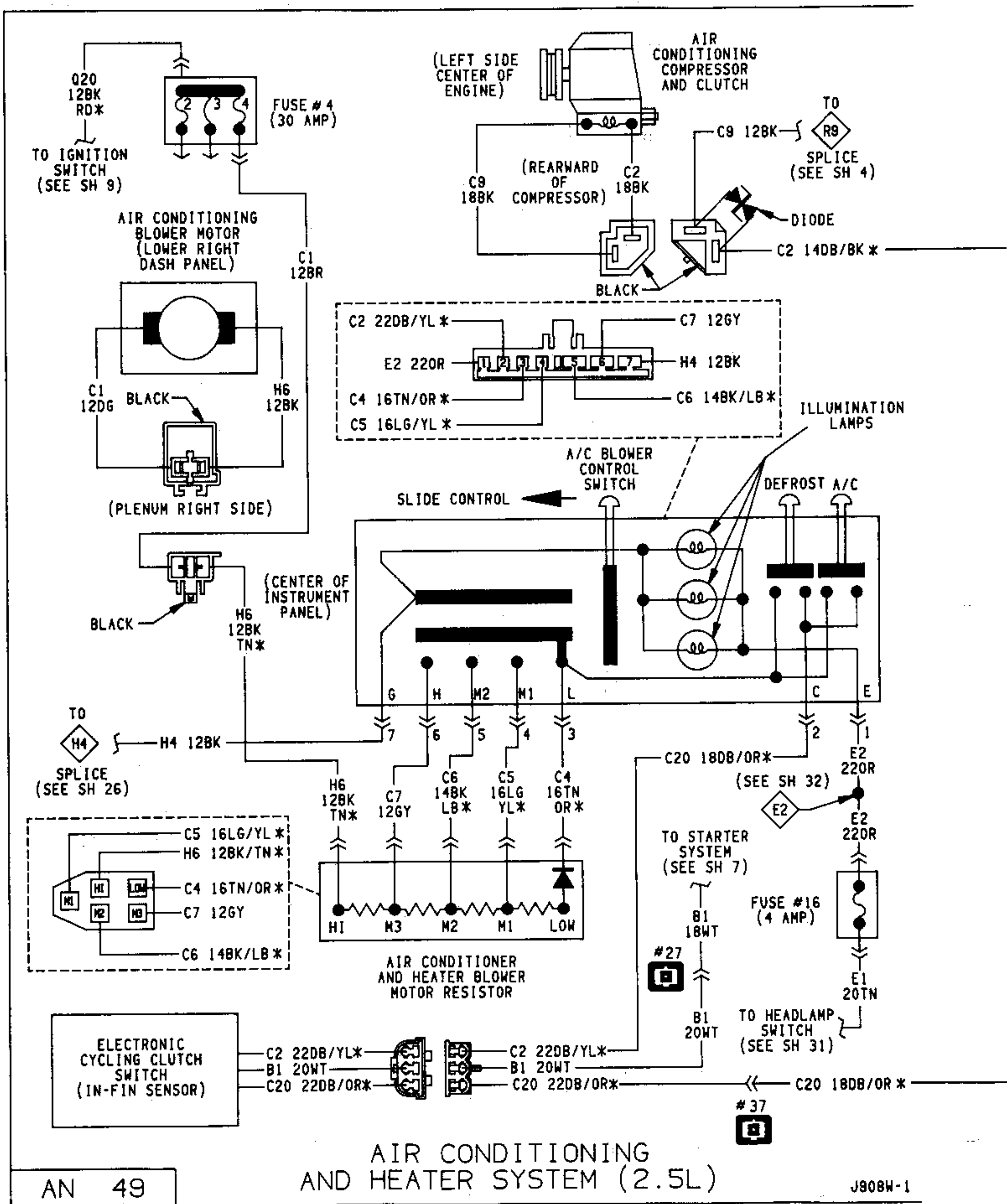


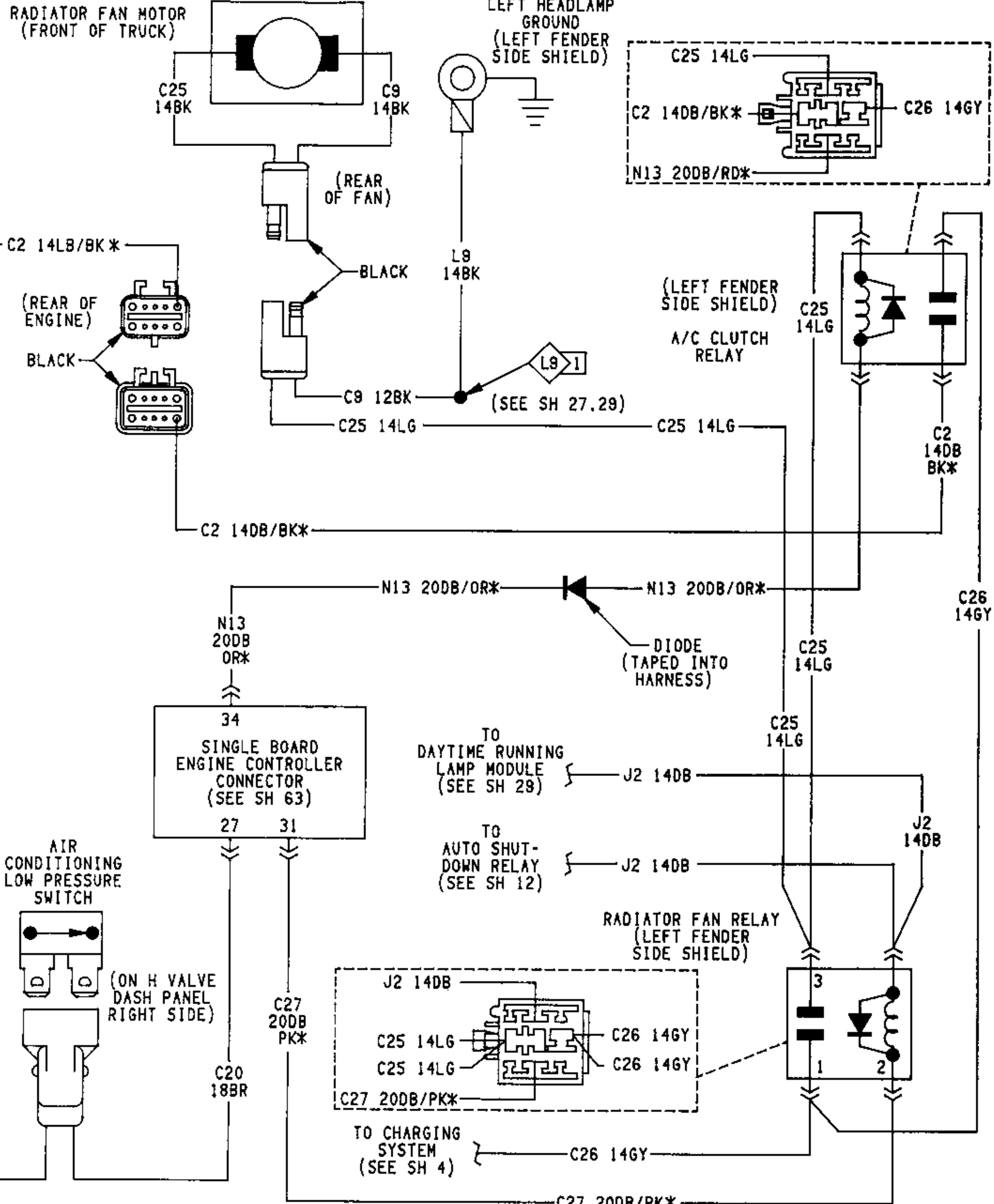






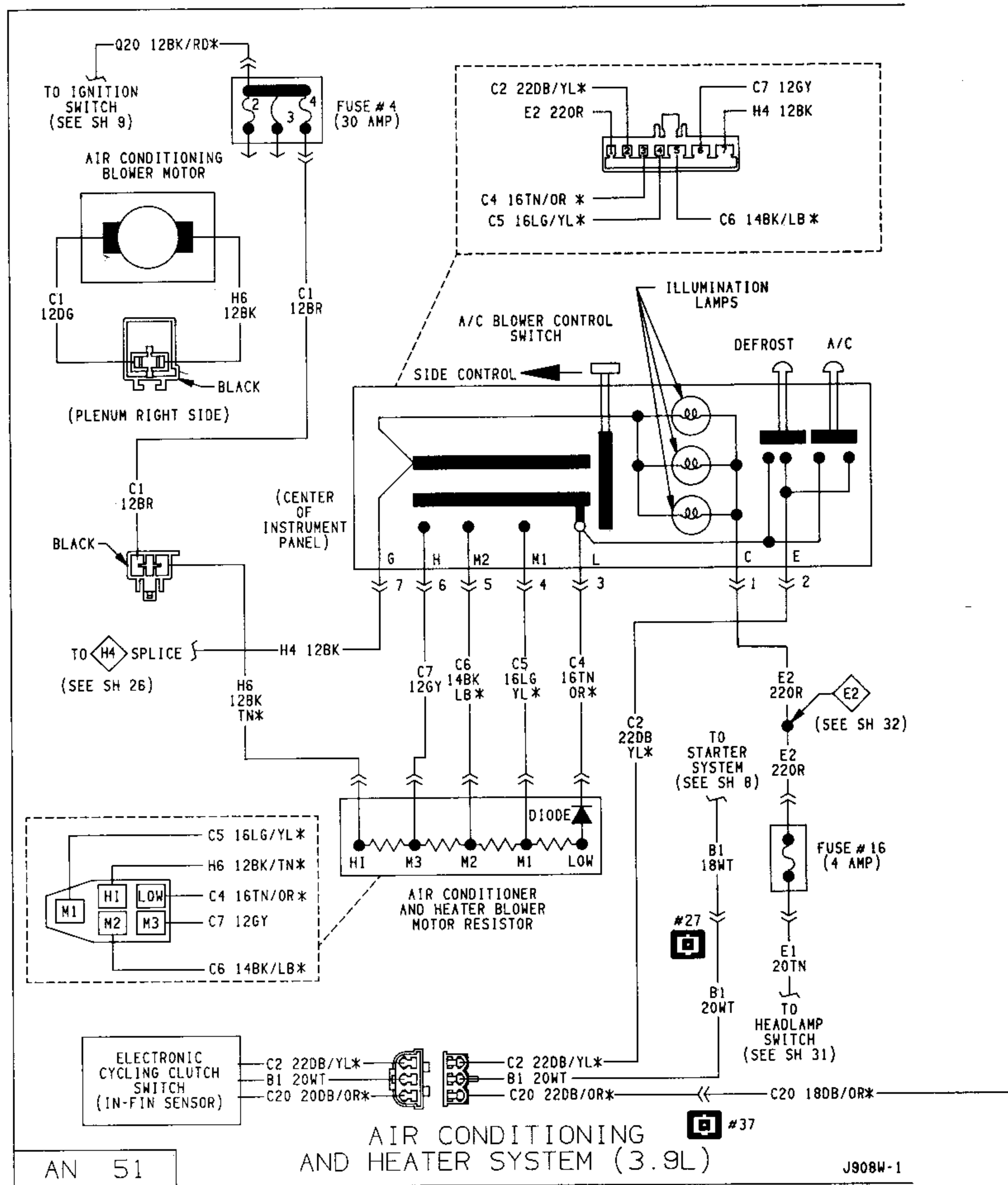
RADIATOR FAN SYSTEM WITH
HEATER 2.5L ENGINE

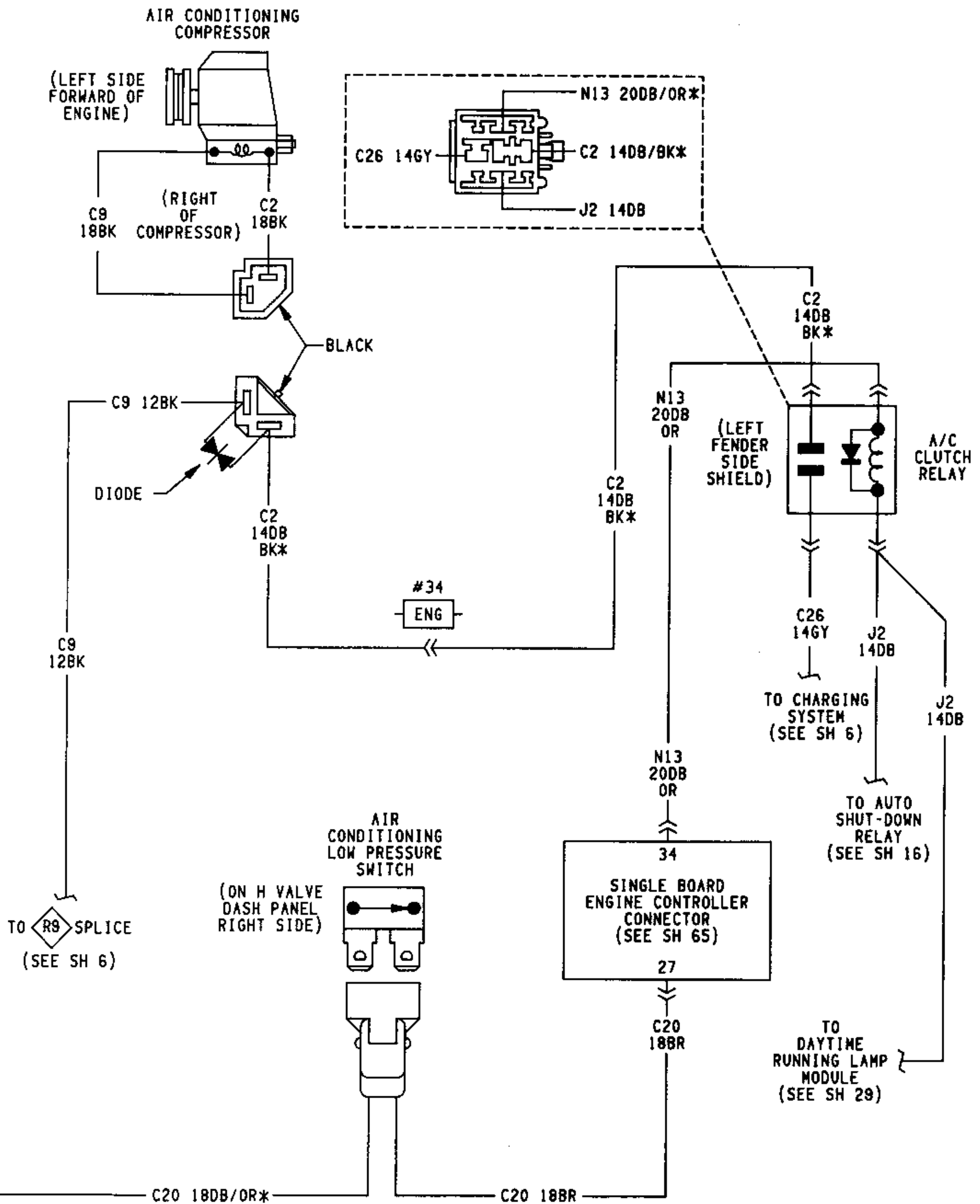




RADIATOR FAN SYSTEM WITH AIR
CONDITIONING AND HEATER SYSTEM 2.5L

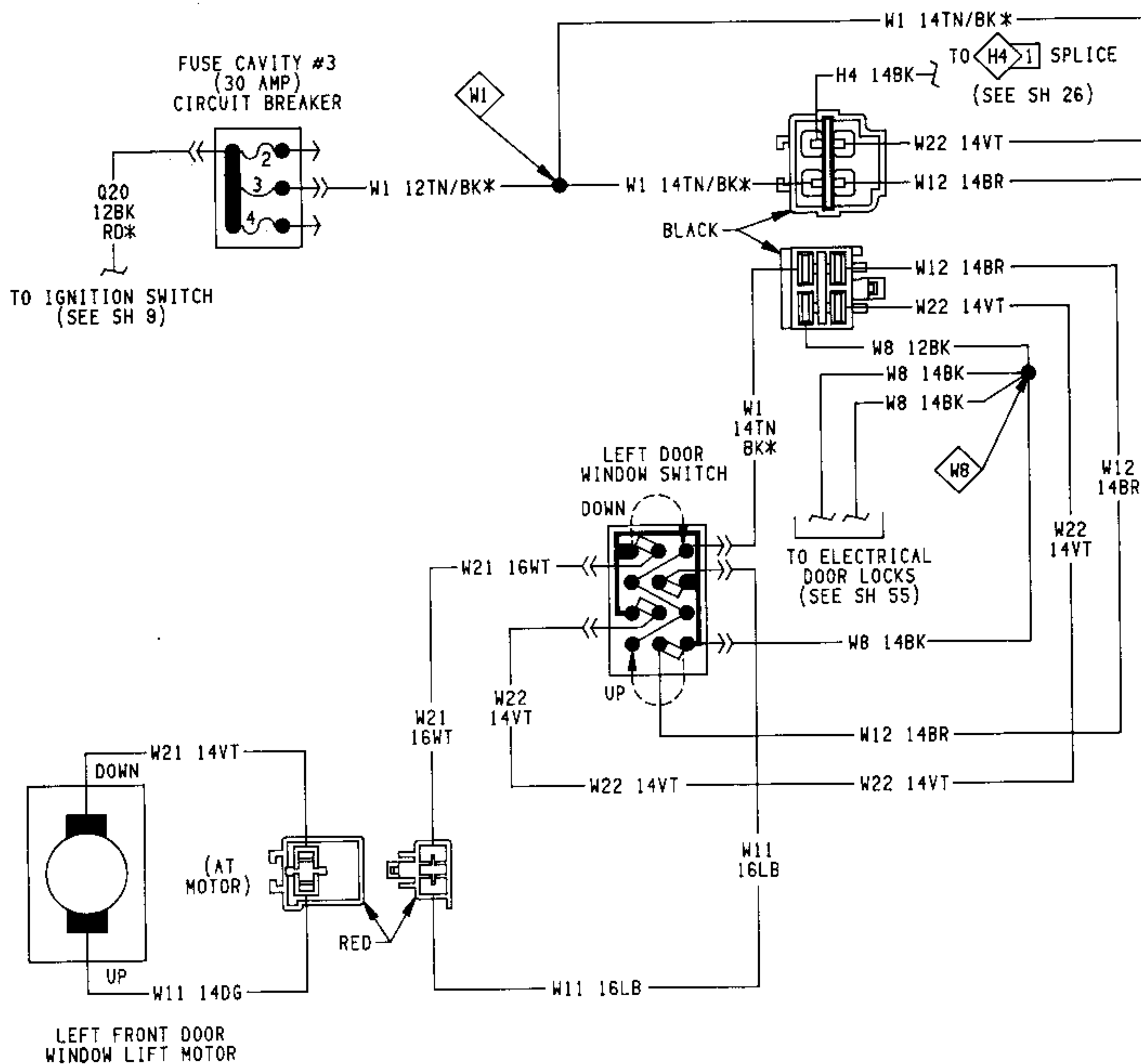
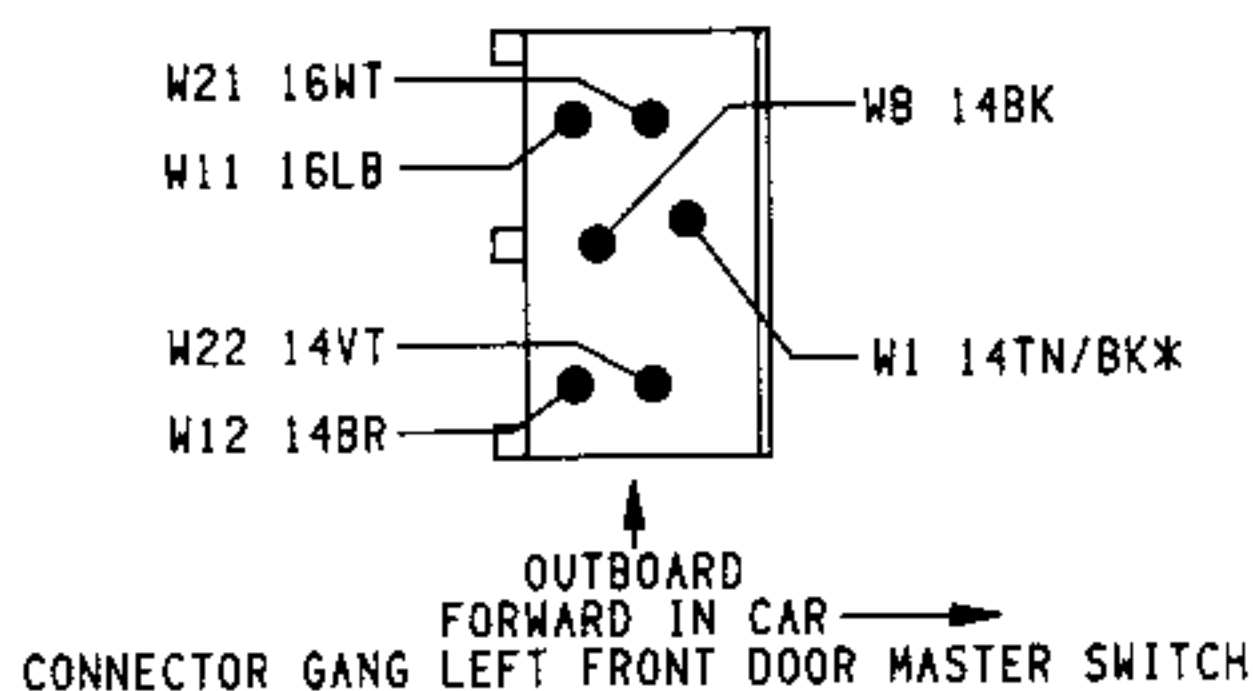
AN 50





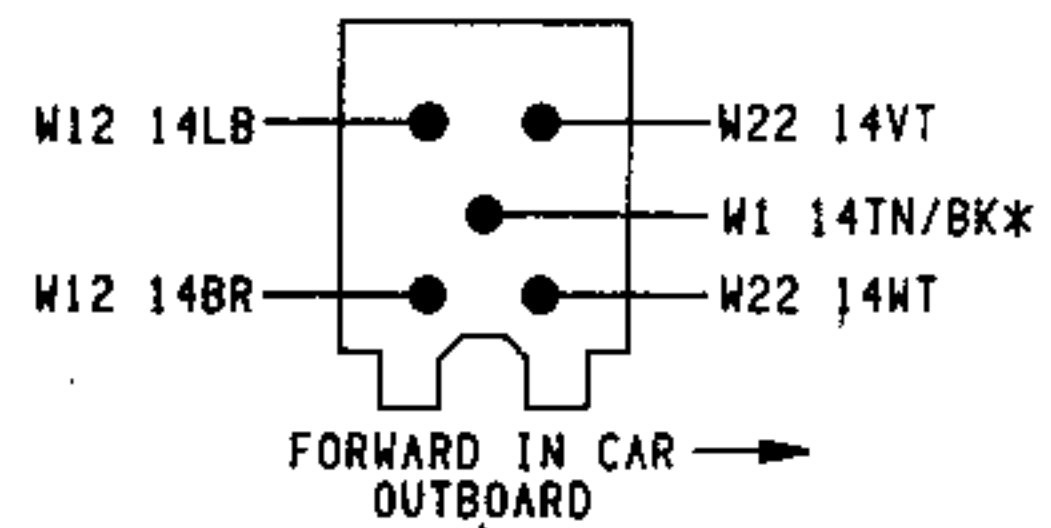
LEFT DOOR WINDOW SWITCH CONNECTOR AND LIFT SWITCH FUNCTION

B+ POLARITY	B- POLARITY	SWITCH SELECT	WINDOW AND MOVEMENT
LB	WT	1	LEFT FRONT UP
WT	LB	1	LEFT FRONT DOWN
BR	VT	2	RIGHT FRONT UP
VT	BR	2	RIGHT FRONT DOWN
TN	BK	SWITCH	FEED AND GROUND

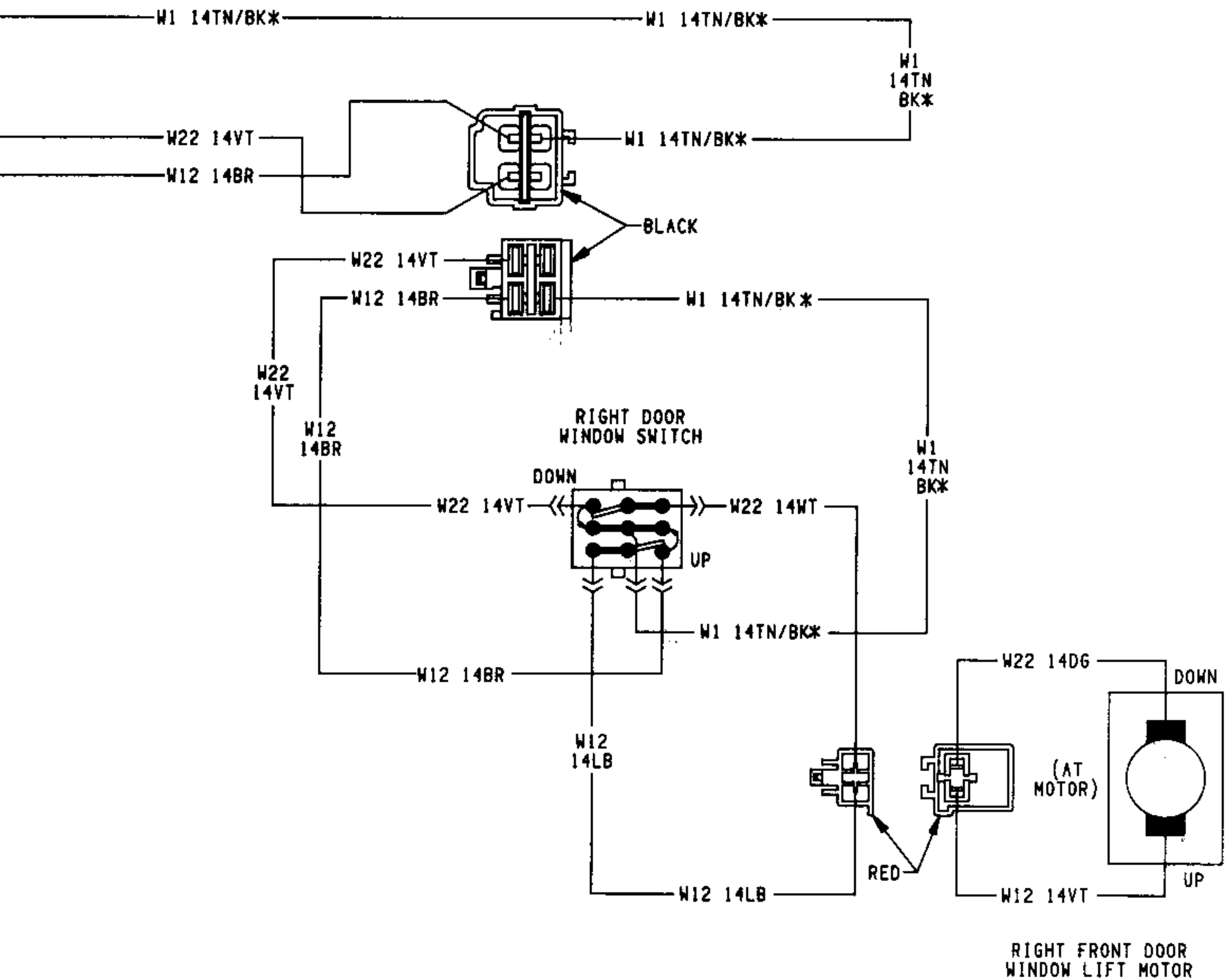


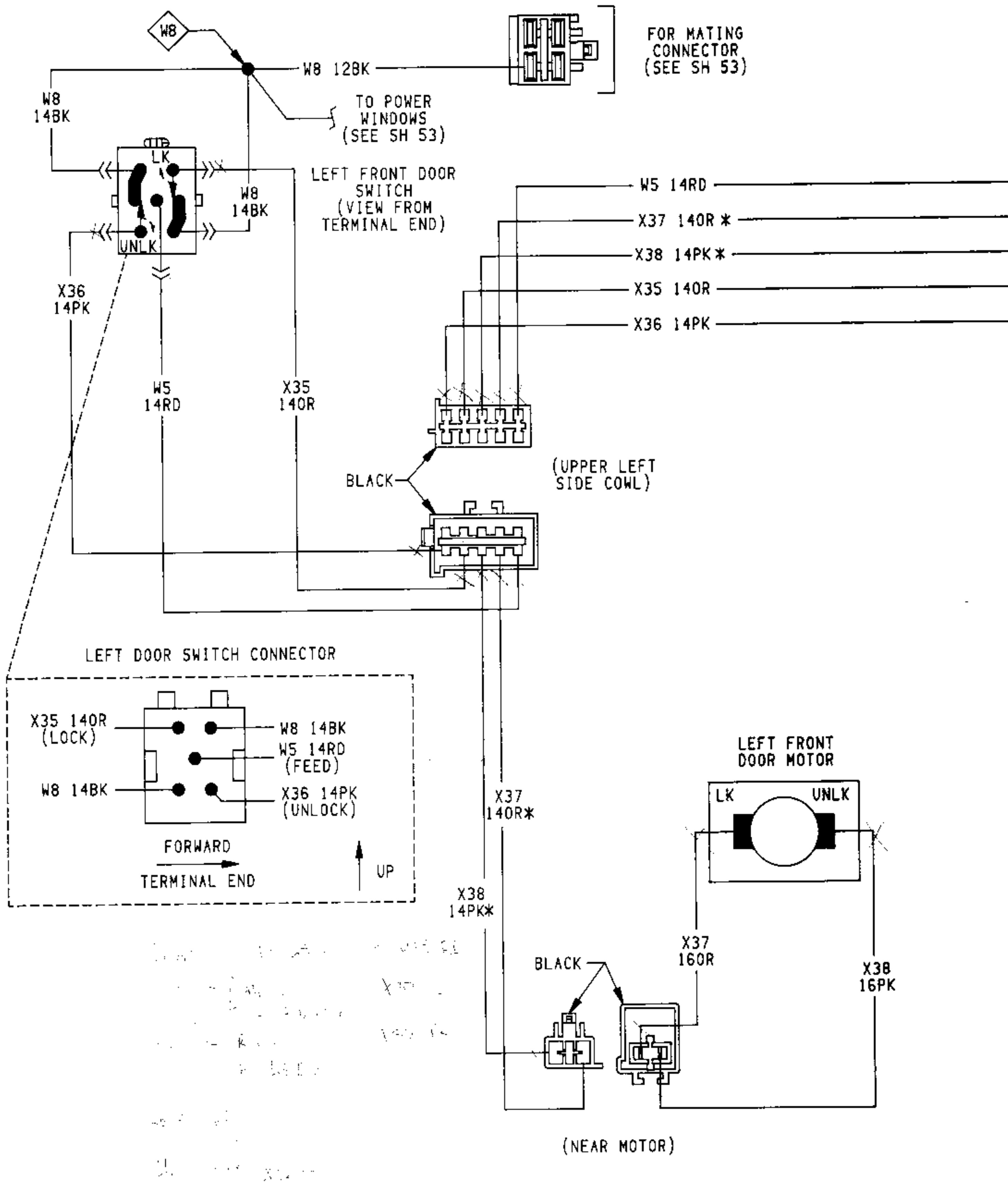
RIGHT DOOR WINDOW SWITCH CONNECTOR AND LIFT SWITCH FUNCTION

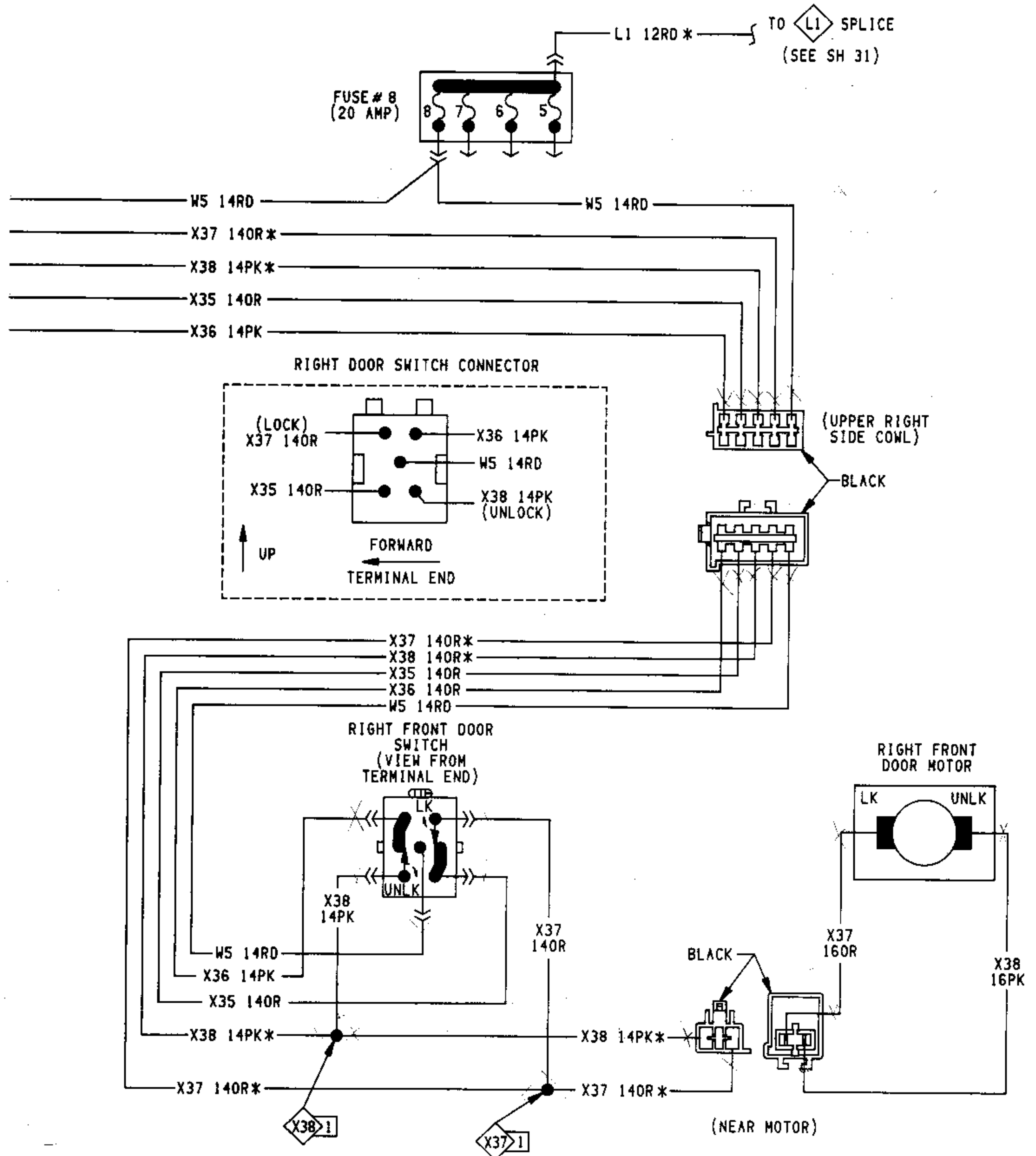
B+ POLARITY	B- POLARITY	WINDOW MOVEMENT AND SWITCH
WT	LB	DOWN FROM DOOR SWITCH
LB	WT	UP FROM DOOR SWITCH
VT	BR	DOWN FROM MASTER SWITCH
BR	VT	UP FROM MASTER SWITCH
TN	--	FEED

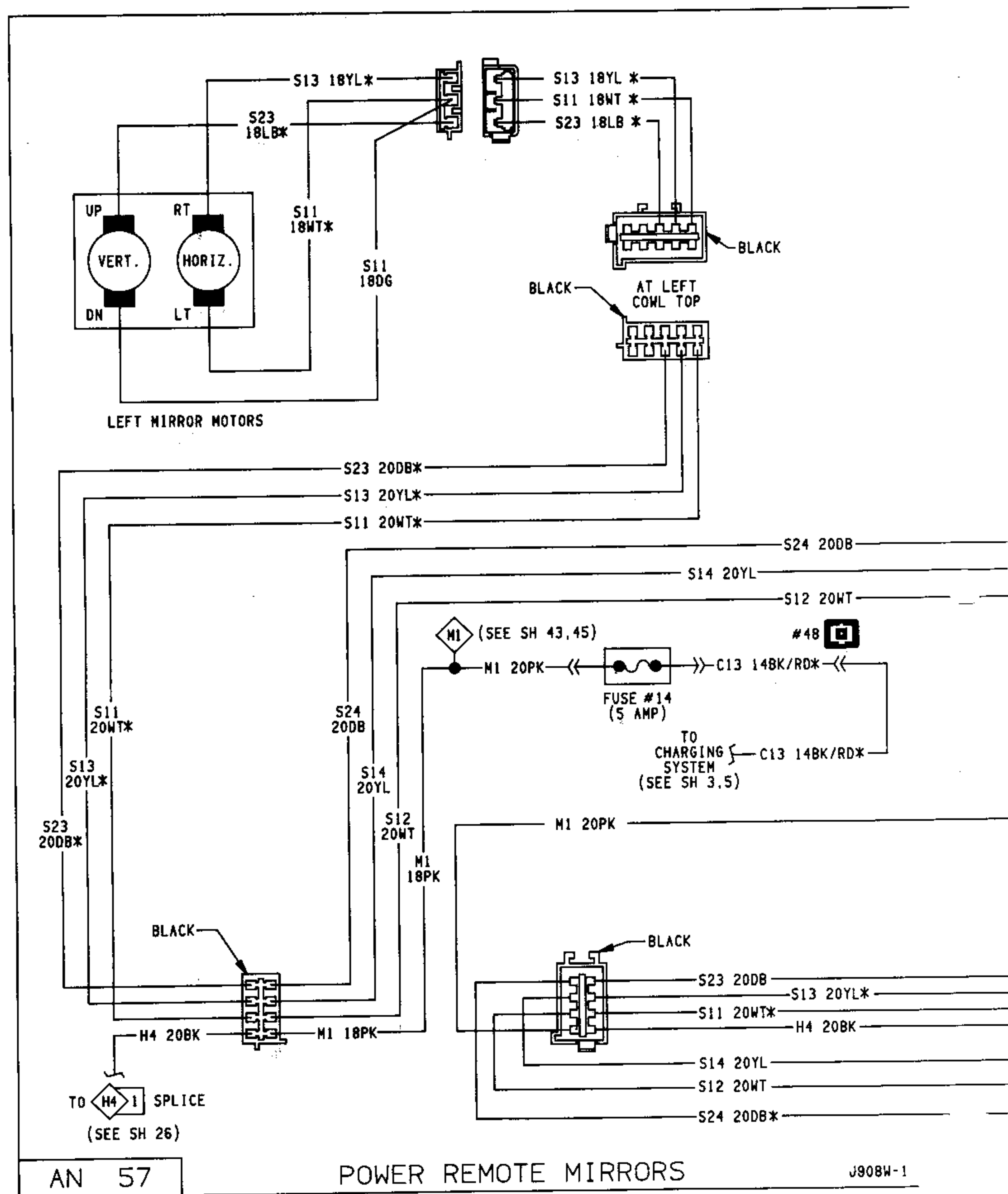


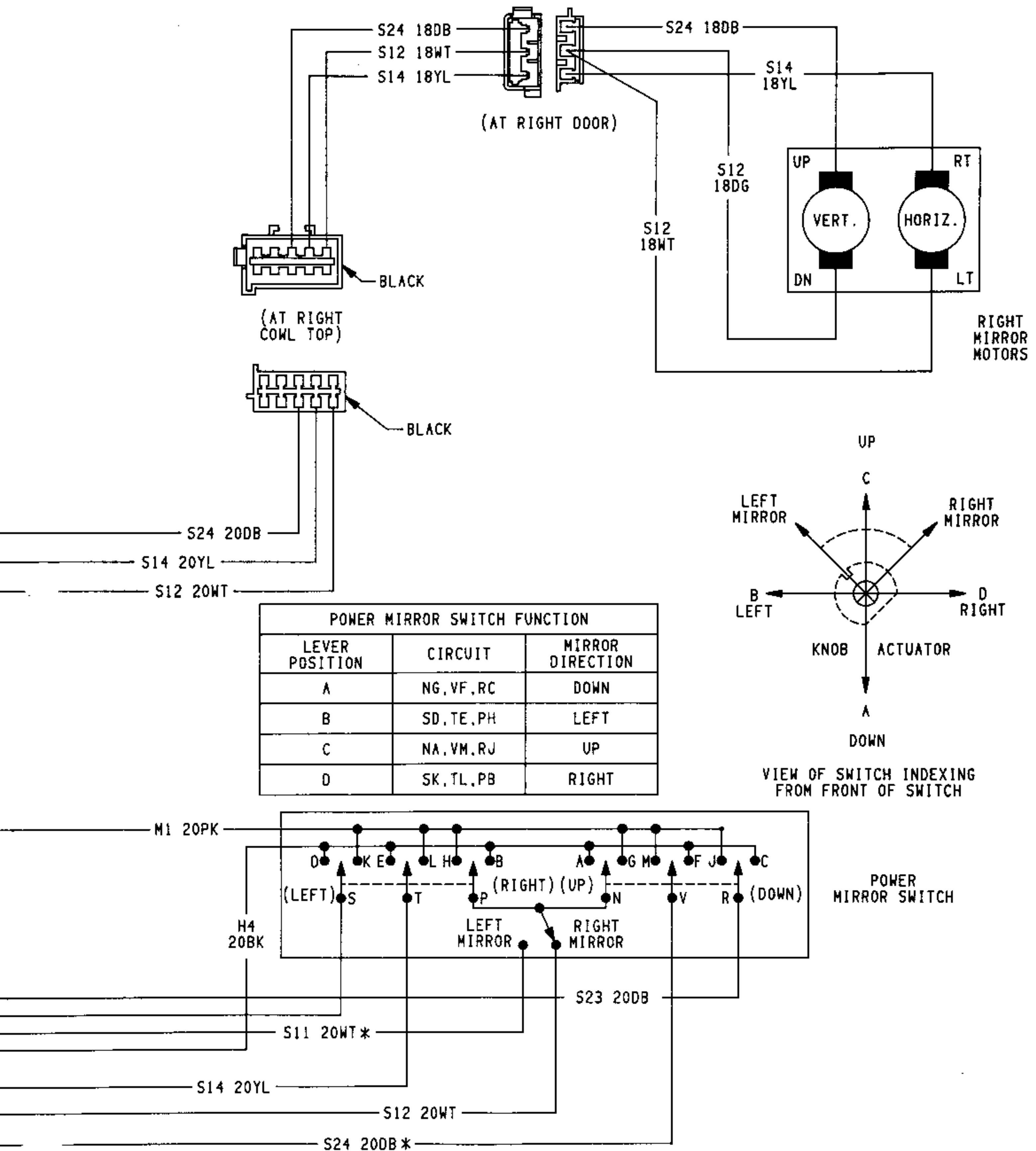
RIGHT FRONT WINDOW LIFT SWITCH CONNECTOR



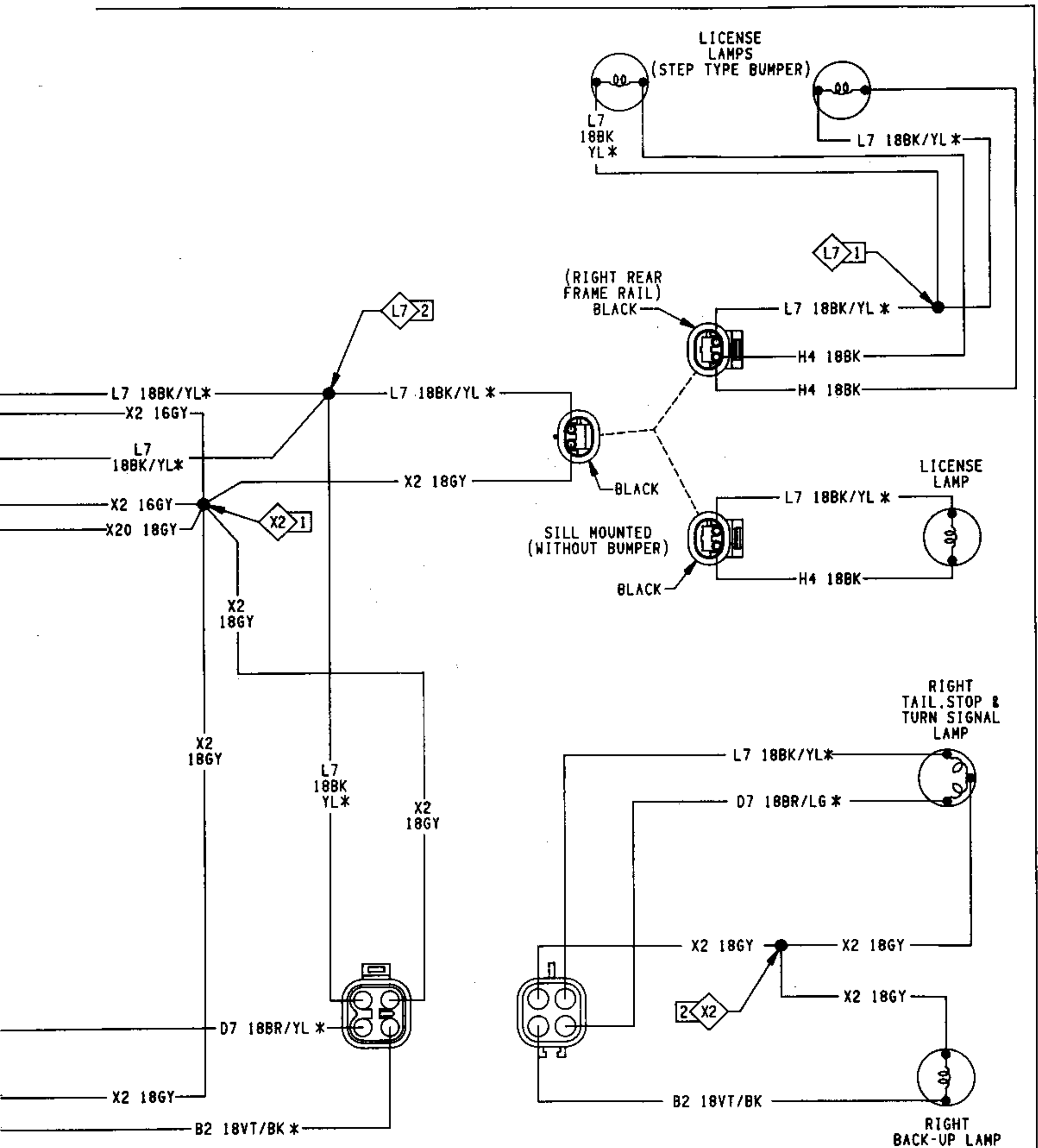


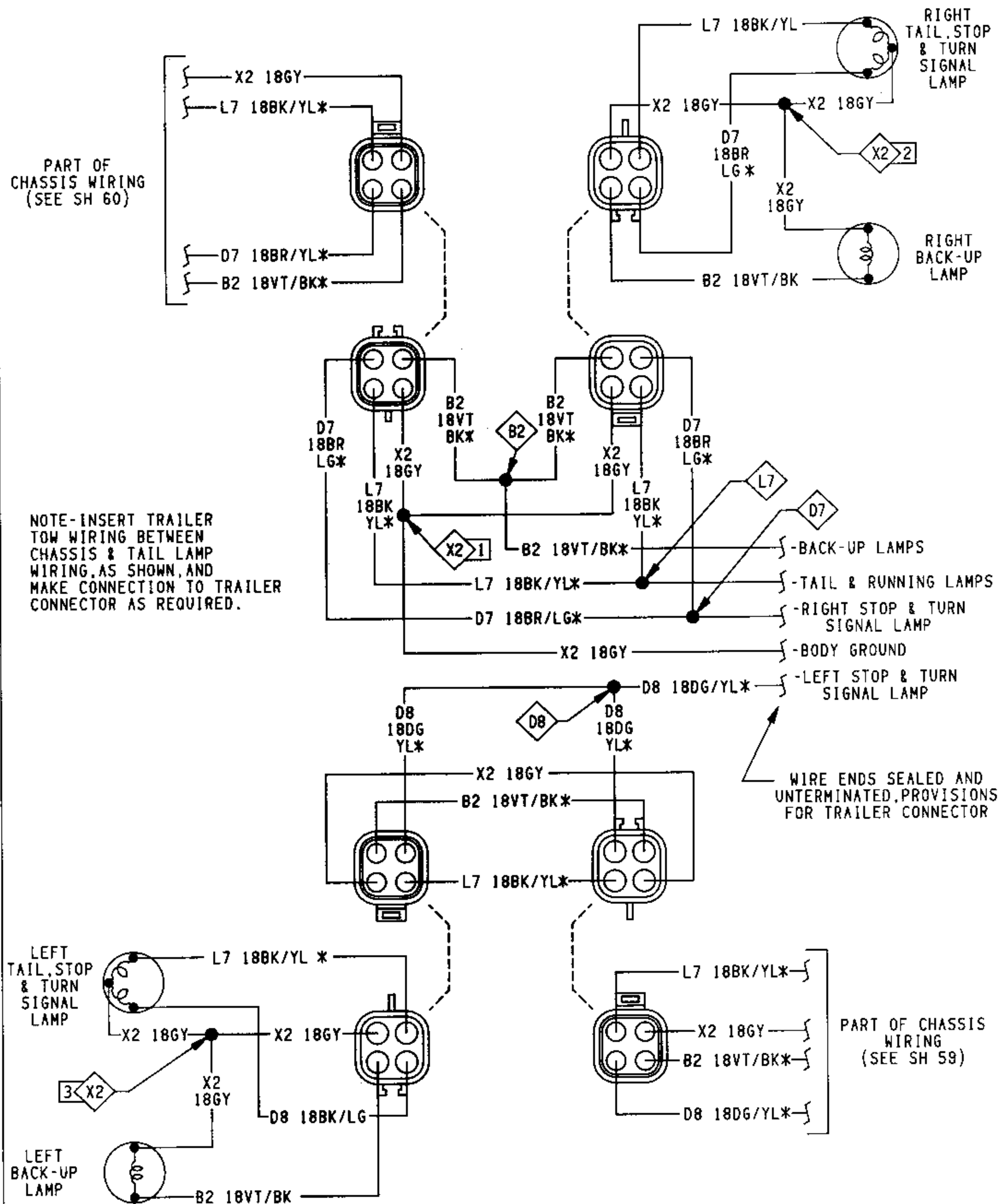


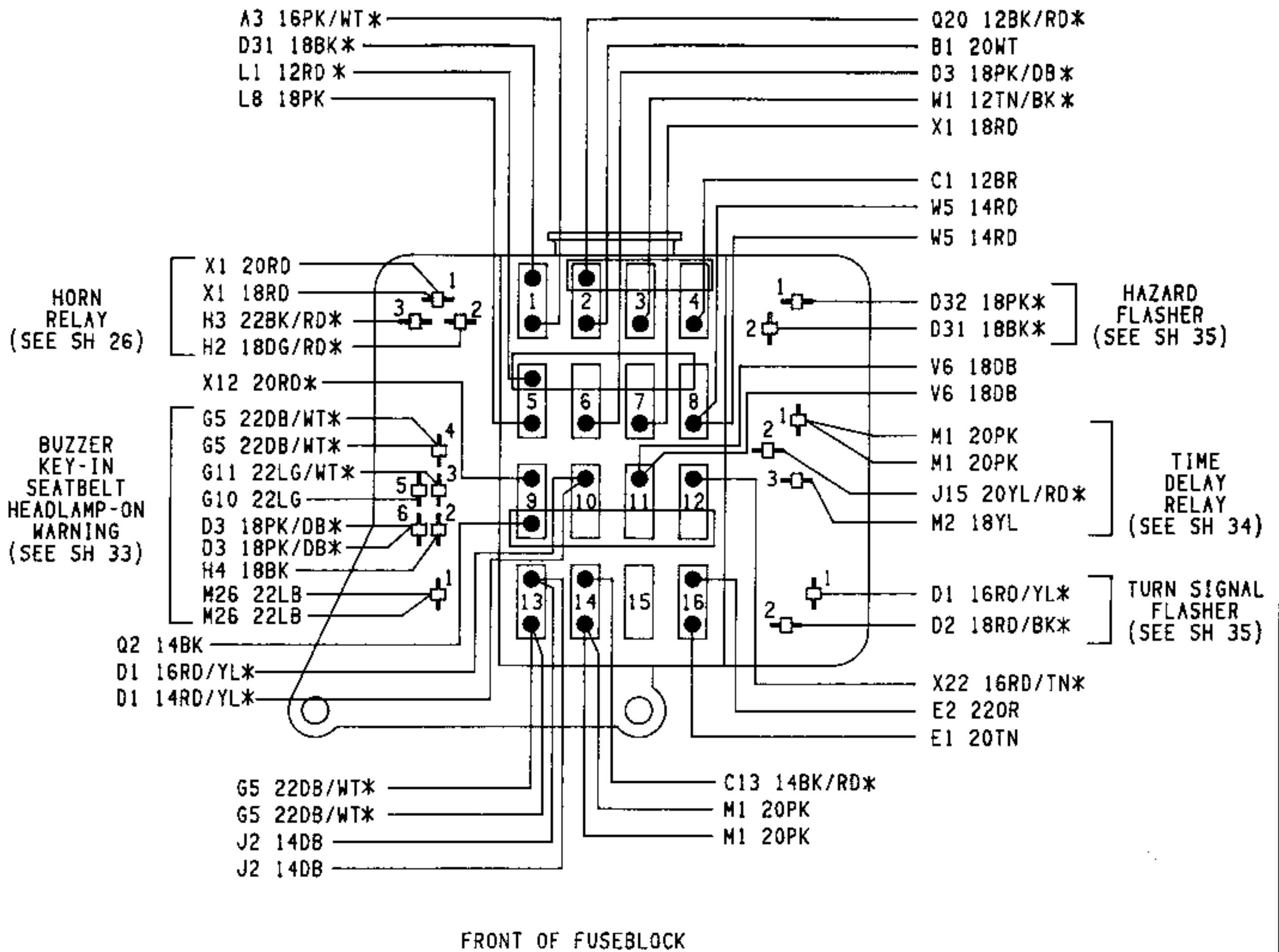




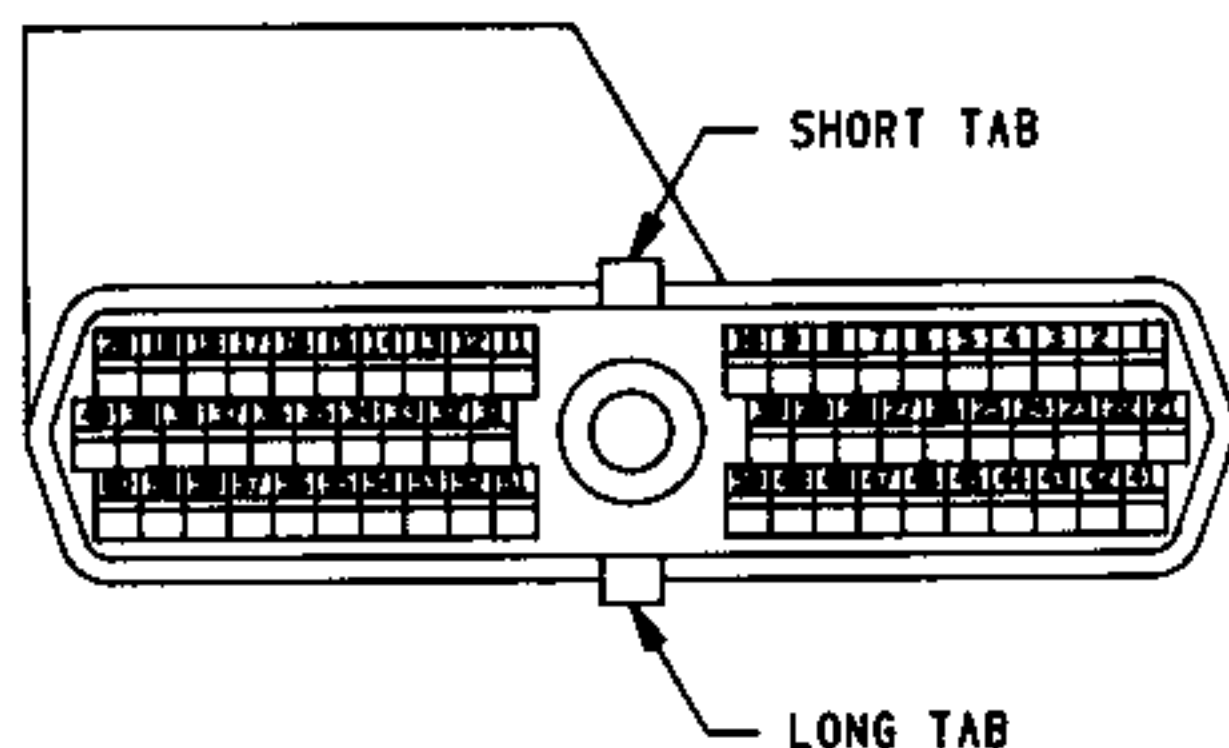






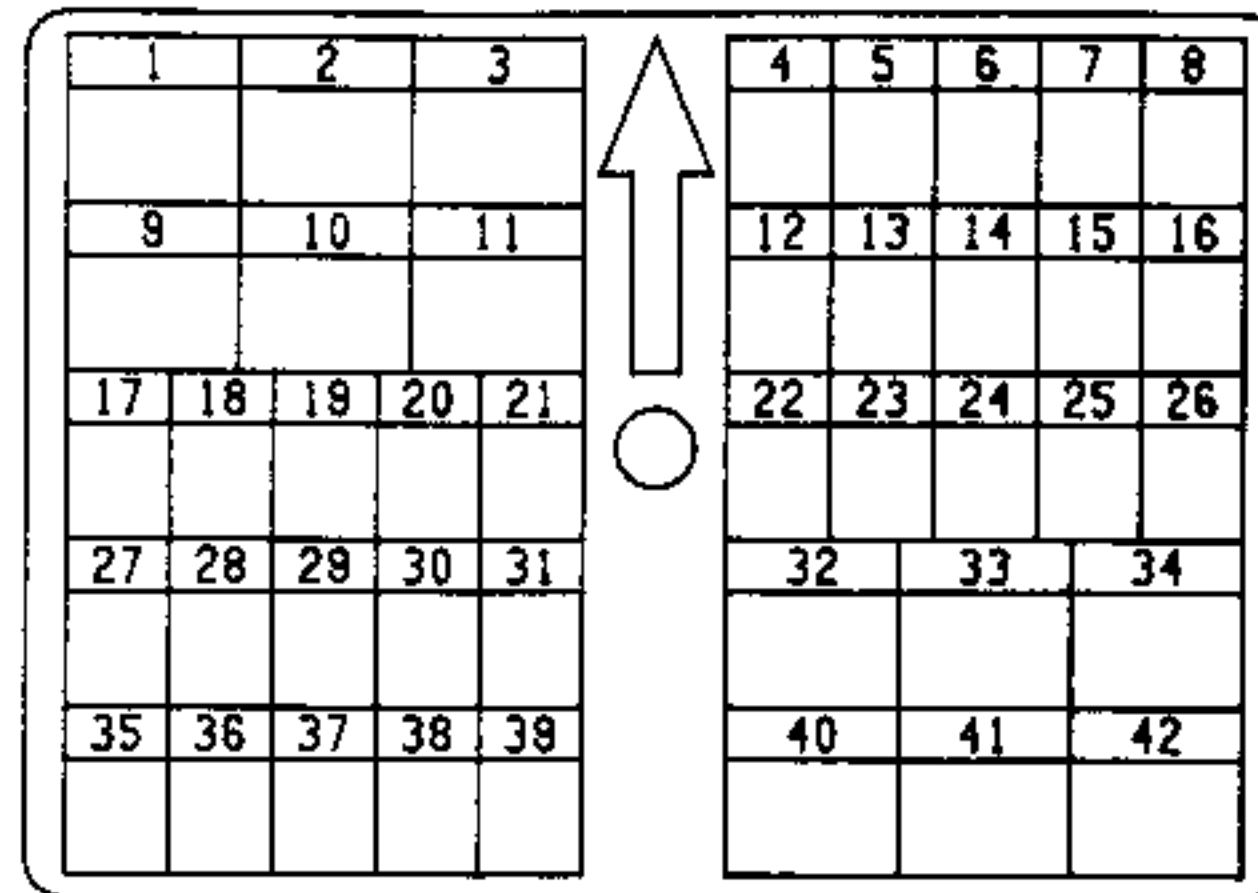


FUSE NUMBER	AMPS	COLOR	SHEET
1	20	YELLOW	1,35
2	10	RED	2,7,8,9
3	30 CIRCUIT BREAKER	SILVER CAN	2,53
4	30	LIGHT GREEN	2,9,47,49,51
5	20	YELLOW	1,31
6	10	RED	1,33
7	15	LIGHT BLUE	1,26
8	20	YELLOW	1,56
9	10	RED	2,9,43,45
10	20	YELLOW	2,9,23,35
11	20	YELLOW	2,9,36,38
12	15	LIGHT BLUE	2,9,33
13	5	TAN	2,9,25,33
14	5	TAN	1,3,5,33,43,45,57
15	—	—	—
16	4	PINK	1,25,32,43,45,47,49,51



CAV	IGNITION SYSTEM CIRCUITS		SHEET NO.
1	K4 20DG/RD*	MAP SENSOR	14
2	K10 20TN*	COOLANT SENSOR	14
3	J11 16RD*	DIRECT BATTERY	13
4	N5 18BK/LB*	SENSOR RETURN	14
5	K5 16BK/WT*	SIGNAL GROUND	11
6	K8 20VT/WT*	5 VOLT SUPPLY	14
7	N6 180R	8 VOLT INPUT	14
8	B1 18WT	IGNITION-RUN ONLY FEED	13
9	J2 14DB	IGNITION FEED	12
10	—	—	—
11	K9 16LB/RD*	POWER GROUND	11
12	K9 16LB/RD*	POWER GROUND	11
13	—	—	—
14	—	—	—
15	—	—	—
16	Y11 18WT/DB*	INJECTOR DRIVER	10
17	—	—	—
18	—	—	—
19	J5 18BK/GY*	IGNITION COIL DRIVER	12
20	R3 180G	ALTERNATOR FIELD DRIVER	14
21	K13 18BK/RD*	THROTTLE BODY TEMP. SENSOR	10
22	K7 180R/DB*	THROTTLE POSITION SENSOR	10
23	—	—	—
24	N7 18GY*	REFERENCE PICKUP	14
25	DK21 20PK	SCI TRANSMIT	11
26	—	—	—
27	C20 18BR	A/C CLUTCH INPUT	10,50
28	—	—	—
29	D40 18WT/PK*	BRAKE SENSE	14,21
30	—	—	—
31	C27 20DB/PK*	RADIATOR FAN RELAY	10,50
32	K3 20BK/PK*	CHECK ENGINE LAMP	13
33	—	—	—
34	N13 200B/OR*	A/C W.O.T. CUTOUT RELAY	10,50
35	SG 20GY/YL*	EGR SOLENOID	12
36	—	—	—
37	—	—	—
38	—	—	—
39	N1 18GY/RD*	AUTOMATIC IDLE SPEED MOTOR	13
40	N2 18BR*	AUTOMATIC IDLE SPEED MOTOR	13
41	N11 18BK/DG*	OXYGEN SENSOR	11
42	—	—	—
43	—	—	—
44	—	—	—
45	DK20 20LG	SCI RECEIVE	11
46	—	—	—
47	G7 20WT/OR*	SPEED SENSOR PICKUP	14
48	—	—	—
49	—	—	—
50	—	—	—
51	K19 20DB/YL*	AUTO SHUT-DOWN RELAY	12
52	K1 20PK*	PURGE SOLENOID	12
53	—	—	—
54	—	—	—
55	—	—	—
56	G29 20GY/PK*	EMISSION MAINT REMINDER LAMP	13
57	—	—	—
58	—	—	—
59	N3 18VT/BK*	AUTOMATIC IDLE SPEED MOTOR	13
60	N4 18YT/BK*	AUTOMATIC IDLE SPEED MOTOR	13

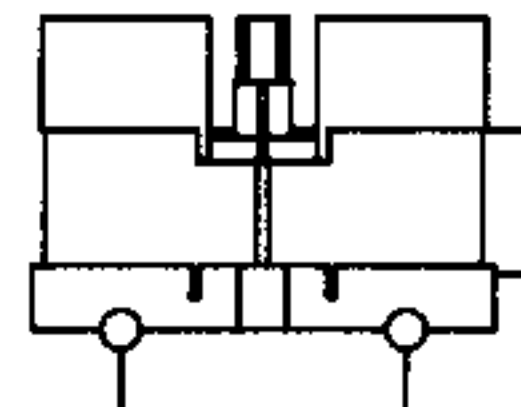
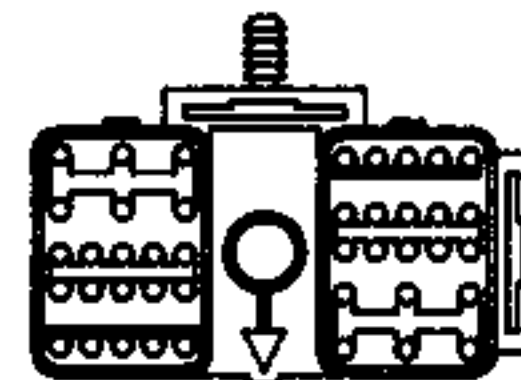
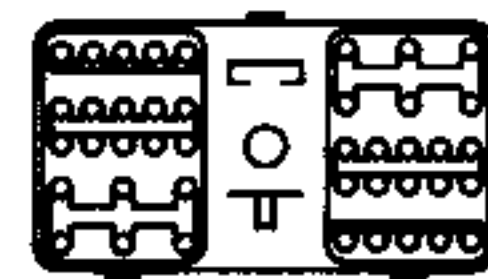
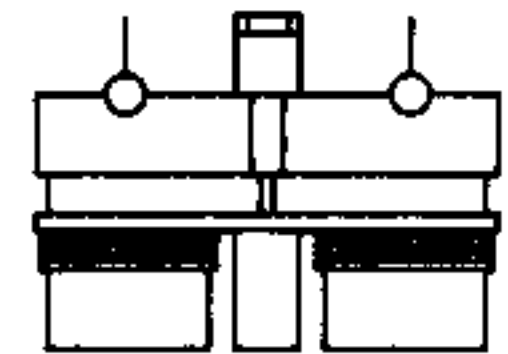
SINGLE BOARD ENGINE CONTROLLER
CONNECTOR (2.5L ENGINE)



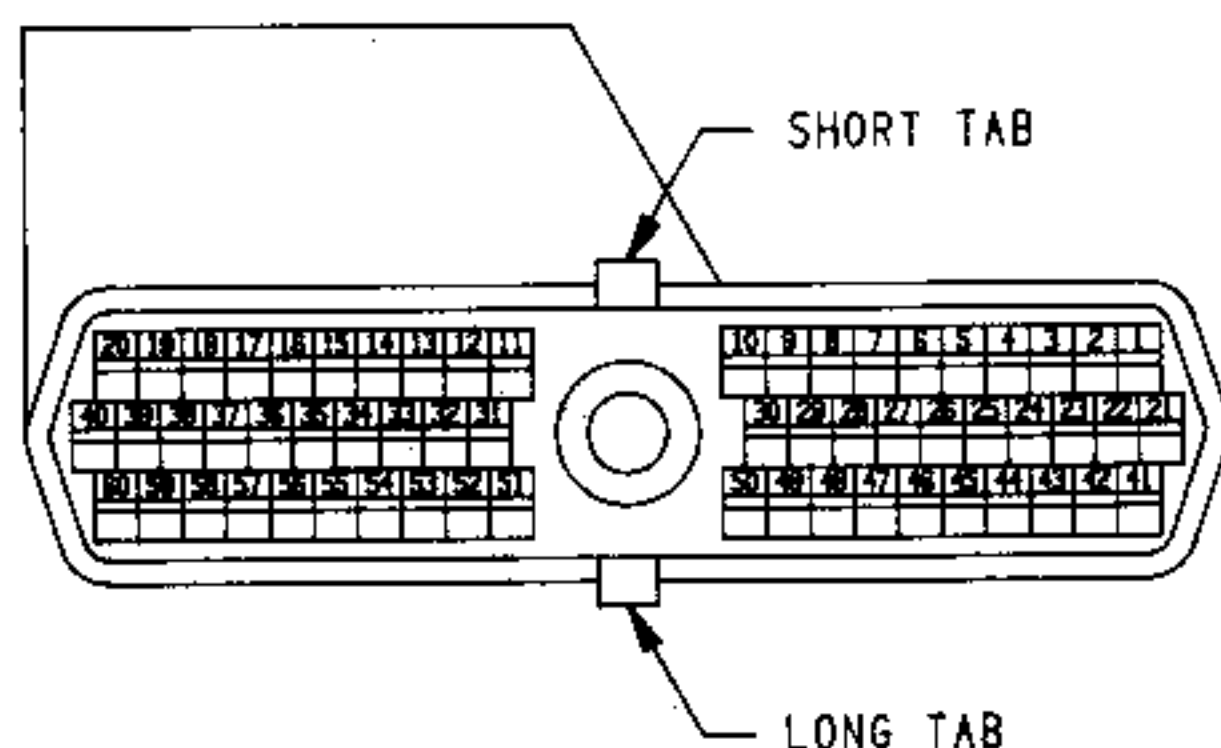
VIEW FROM WIRE END

-TRANS-

CAV	IGNITION SYSTEM CIRCUITS		SHEET NO
1			
2	N11 18BK/DG*	OXYGEN SENSOR	11
3	N5 18BK/LB*	SENSOR RETURN	10
4			
5			
6			
7			
8	Y11 18WT/DB*	INJECTOR DRIVE #1	10
9	Z1 14DG/BK*	INJECTOR FEED-BATTERY	10
10			
11			
12	G7 20WT/OR*	SPEED SENSOR PICKUP	14
13			
14			
15			
16			
17			
18			
19			
20			
21	B2 18WT/BK*	BACKUP LAMPS	7
22	B1 18WT	IGNITION FEED (BACKUP LAMPS)	7
23	K13 18BK/RD*	THROTTLE BODY TEMP SENSOR	10
24			
25			
26			
27	N1 18GY/RD*	AUTOMATIC IDLE SPEED MOTOR	13
28	N2 18BR*	AUTOMATIC IDLE SPEED MOTOR	13
29	K8 20VT/WT*	5 VOLT SUPPLY	10
30			
31			
32			
33	K7 18OR/DB*	THROTTLE POSITION SENSOR	10
34			
35	N3 18VT/BK*	AUTOMATIC IDLE SPEED MOTOR	13
36	N4 18YL/BK*	AUTOMATIC IDLE SPEED MOTOR	13
37			
38			
39			
40	K5 16BK/WT*	SIGNAL GROUND	11
41			
42	J9 14BK	POWER GROUND	11

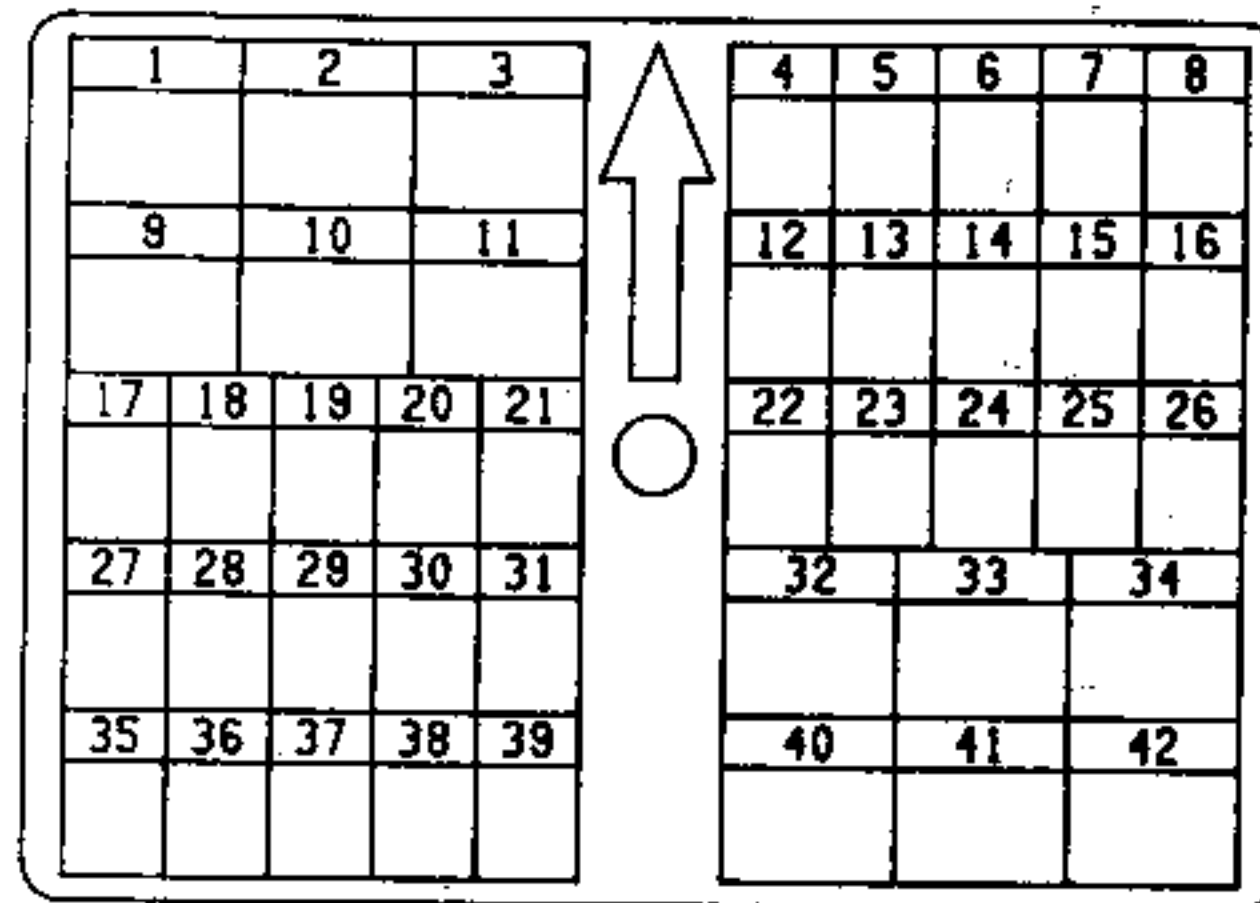


THROTTLE BODY AND TRANSMISSION
CONNECTOR (2.5L ENGINE)(FEDERAL)



CAV	IGNITION SYSTEM CIRCUITS		SHEET NO.
1	K4 20DG/RD*	MAP SENSOR	18
2	K10 20TN/WT*	COOLANT SENSOR	18
3	J11 16RD*	DIRECT BATTERY	17
4	N5 18BK/LB*	SENSOR RETURN	18
5	K5 16BK*	SIGNAL GROUND	15
6	K8 20VT*	5 VOLT SUPPLY	15
7	N6 18OR	8 VOLT INPUT	18
8	Z1 16DG/BK*	AUTO SHUT DOWN-BATTERY SUP	16
9	J2 14DB	IGNITION FEED	16
10	—	—	
11	K9 16LB/RD*	POWER GROUND	15
12	K9 16LB/RD*	POWER GROUND	15
13	—	—	
14	—	—	
15	Y12 18TN	INJECTOR DRIVER #2	15
16	Y11 18WT/DB*	INJECTOR DRIVER #1	15
17	—	—	
18	—	—	
19	J5 18BK/GY*	IGNITION COIL DRIVER	16
20	R3 18DG	ALTERNATOR FIELD DRIVER	17
21	—	—	
22	K7 18OR/DB*	THROTTLE POSITION SENSOR	15
23	—	—	
24	N7 18GY*	REFERENCE PICKUP	18
25	DK21 20PK	SCI TRANSMIT	15
26	—	—	
27	C20 18BR	A/C CLUTCH INPUT	15, 52
28	N31 18VT	CLOSED THROTTLE SWITCH	17
29	D40 18WT/PK*	BRAKE SENSE	18, 21
30	S4 18BR/YL*	PARK/NEUTRAL SWITCH	17
31	—	—	
32	K3 20BK/PK*	CHECK ENGINE LAMP	17
33	X36 20TN/RD*	SPEED CONTROL-VACUUM	18, 21
34	N13 20DB/OR*	A/C W.O.T. CUTOUT RELAY	15, 52
35	SG 20GY/YL*	EGR SOLENOID	16
36	N23 20BK/OR*	AIR SWITCHING SOLENOID	16
37	—	—	
38	—	—	
39	—	—	
40	N2 18BR*	AUTOMATIC IDLE SPEED MOTOR	17
41	N11 18BK/DG*	OXYGEN SENSOR	15
42	—	—	
43	T21 20GY/LB*	TACHOMETER SIGNAL OUTPUT	17
44	U4 20OR/WT*	OVERDRIVE LOCKOUT	25
45	DK20 20LG	SCI RECEIVE	15
46	—	—	
47	G7 20WT/OR*	SPEED SENSOR PICKUP	18
48	X31 20BR/RD*	SPEED CONTROL - SET	18, 21
49	X32 20YL/RD*	SPEED CONTROL - ON/OFF	18, 21
50	X33 20WT/LG*	SPEED CONTROL - RESUME	18, 21
51	K19 20DB/YL*	AUTO SHUT-DOWN RELAY	16
52	K1 20PK*	PURGE SOLENOID	16
53	X35 20LG/RD*	SPEED CONTROL - VENT	18, 21
54	U3 20OR/BK*	PART THROTTLE UNLOCK SOLENOID	25
55	U40 20OR/WT*	OVERDRIVE LOCKOUT SOLENOID	25
56	G29 20GY/PK*	EMISSION MAINT.REMINDER LAMP	17
57	—	—	
58	—	—	
59	—	—	
60	N4 18GY/RD*	AUTOMATIC IDLE SPEED MOTOR	17

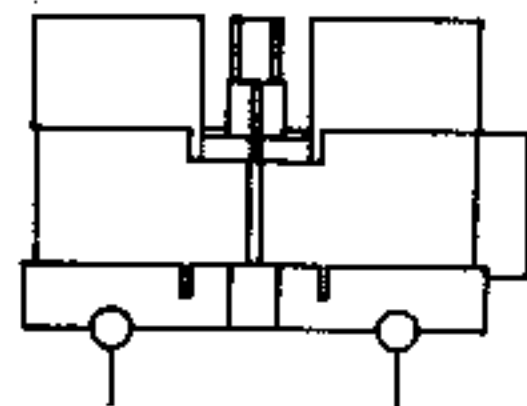
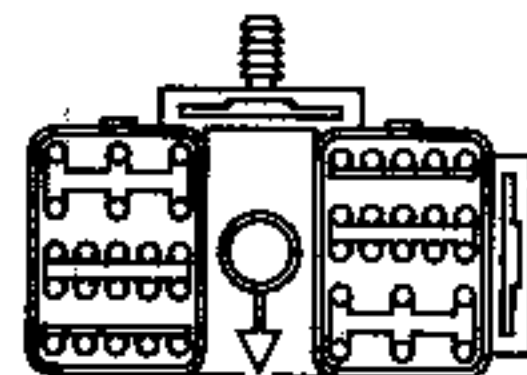
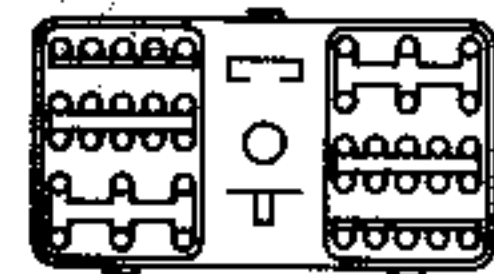
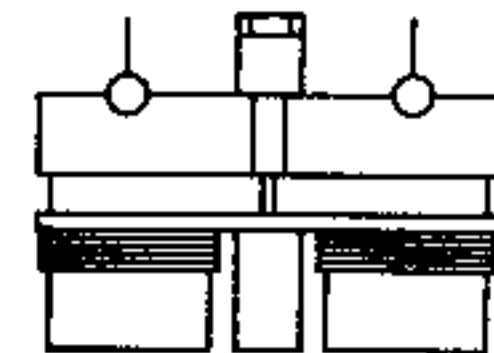
SINGLE BOARD ENGINE CONTROLLER
CONNECTOR (3.9L ENGINE)

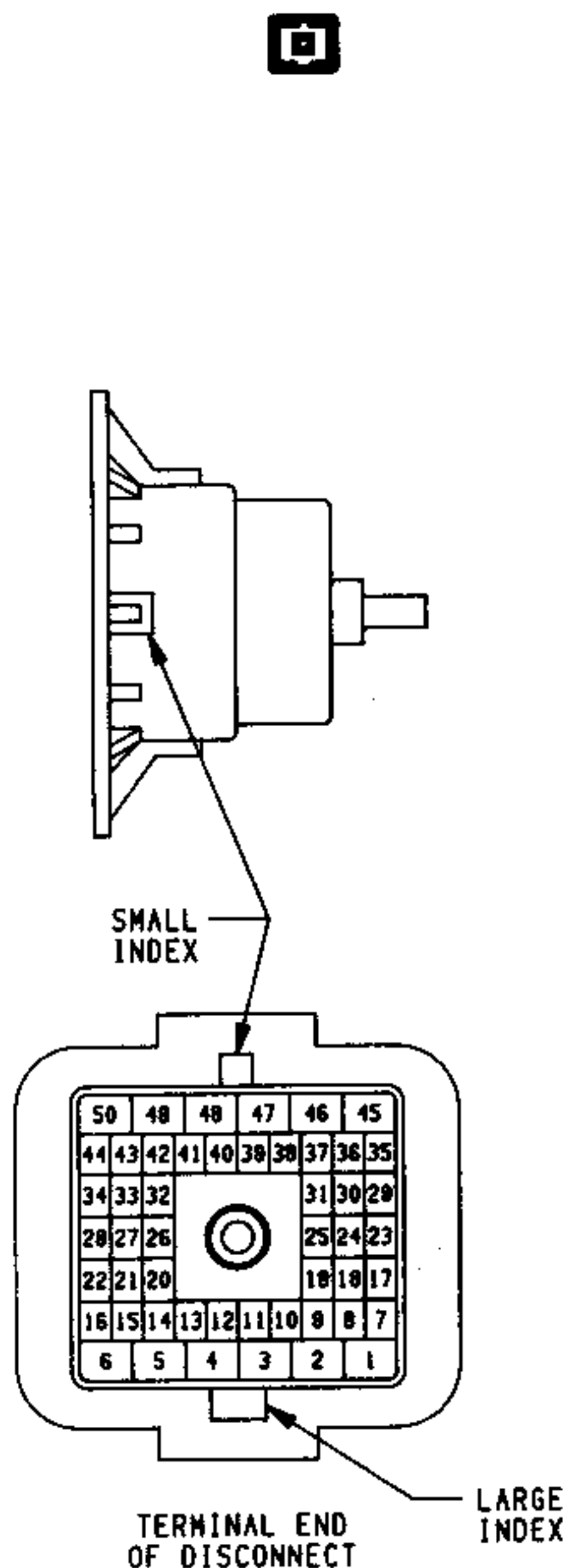


VIEW FROM WIRE END

ENG

CAV	IGNITION SYSTEM CIRCUITS		SHEET NO
1	J2 14DB	IGNITION FEED	6, 16
2	N11 18BK/DG*	OXYGEN SENSOR	15
3	N5 18BK/LB*	SENSOR RETURN	18
4			
5			
6			
7	Y12 18TN	INJECTOR DRIVE #2	15
8	Y11 18WT/DB*	INJECTOR DRIVE #1	15
9	Z1 14DG/BK*	INJECTOR FEED-BATTERY	16
10	K4 20DG/RD*	MAP SENSOR	18
11	N6 18OR	8 VOLT INPUT	18
12			
13			
14			
15	G60 20GY/YL*	OIL PRESSURE SENDING UNIT	19
16	G6 20GY	OIL PRESSURE SWITCH (LAMP)	19
17	K10 20TN/WT*	COOLANT SENSOR	18
18	X4 20LG/BR	4WD INDICATOR LAMP SWITCH	20
19			
20			
21			
22			
23			
24			
25			
26	G20 20VT/YL*	TEMPERATURE SENDING UNIT	19
27	N1 18GY/RD*	AUTOMATIC IDLE SPEED MOTOR	17
28	N2 18BR*	AUTOMATIC IDLE SPEED MOTOR	17
29	K8 20VT*	5 VOLT SUPPLY	15
30			
31	N31 18VT	AUTOMATIC IDLE SPEED MOTOR	17
32	N7 18GY*	DISTRIBUTOR REF PICKUP	18
33	K7 18OR/DB*	THROTTLE POSITION SENSOR	15
34	C2 14DB/BK*	A/C CLUTCH	52
35	S6 20GY/YL*	EGR SOLENOID	16
36	K1 20PK*	PURGE SOLENOID	16
37	N23 20BK/OR*	AIR SWITCHING SOLENOID	16
38			
39			
40	K5 16BK*	SIGNAL GROUND	15
41	R3 18DG	ALTERNATOR FIELD DRIVER	6
42	J9 14BK	POWER GROUND	15





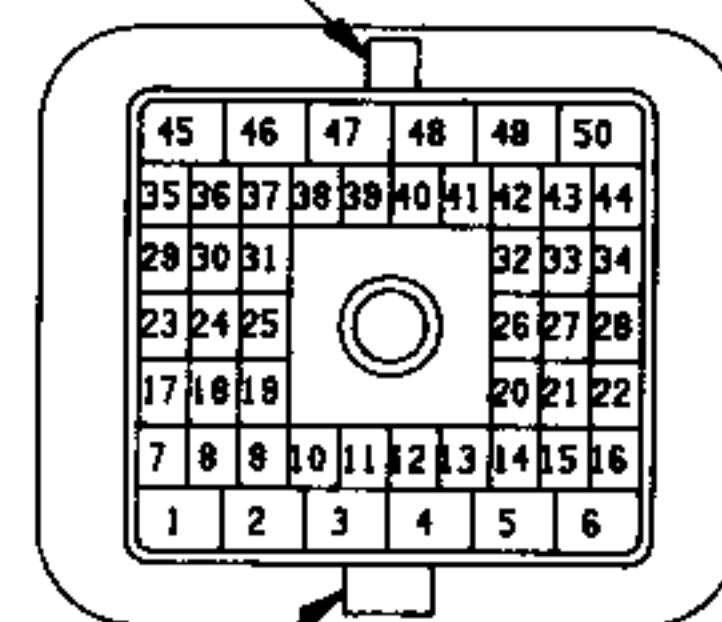
CAVITY		ENGINE COMPARTMENT CIRCUITS
1	L1 12RD*	BATTERY FEED
2	—	
3	DS1 14WT	REAR WHEEL ANTI-LOCK (DUMP SOLENIOD)
4	IS1 16LG*	REAR WHEEL ANTI-LOCK (ISO SOLENIOD)
5	L4 16VT*	HEADLAMP LOW BEAM
	L4 16VT*	HEADLAMP LOW BEAM
6	L3 16RD/OR*	HEADLAMP HIGH BEAM
	L3 16RD/OR*	HEADLAMP HIGH BEAM
7	X30 20DB/RD*	SPEED CONTROL (ON/OFF)
8	X31 20BR/RD*	SPEED CONTROL (SET)
9	X33 20WT/LG*	SPEED CONTROL (RESUME)
10	X32 20YL/RD*	SPEED CONTROL (ON/OFF)
11	T2 18BK/RD*	TRANS OIL TEMP (3.9L)
12	L33 16RD/BK*	HIGH BEAM INDICATOR LAMP
13	L20 14LG/BK*	HIGH BEAM FEED
14	VS1 18LB	REAR WHEEL ANTI-LOCK (VALVE SWITCH)
15	D8 18DG/YL*	LEFT REAR TURN SIGNAL LAMP
16	D7 18BR/YL*	RIGHT REAR TURN SIGNAL LAMP
17	G20 20VT/YL*	WATER TEMPERATURE SENDING UNIT
18	G6 22GY	OIL PRESSURE LAMP SWITCH
19	G60 20GY/YL*	OIL PRESSURE SENDING UNIT
20	U3 20OR/BK*	SHIFT INDICATOR LAMP
21	D6 18LG	LEFT TURN SIGNAL LAMP &
	D6 18LG	LEFT SIDE MARKER LAMP (2.5L)
22	D5 18TN	RIGHT TURN SIGNAL LAMP &
	D5 18TN	RIGHT SIDE MARKER LAMP (2.5L)
23	A3 16PK/WT*	HAZARD FLASHER FEED (BATTERY)
24	B01 18RD/VT*	REAR WHEEL ANTI-LOCK (HIGH SENSOR)
25	B02 18WT/VT*	REAR WHEEL ANTI-LOCK (LOW SENSOR)
26	L7 18BK/YL*	REAR LIGHTING, PARK & SIDE MARKER LAMPS
	L7 18BK/YL*	PARKING & SIDE MARKER LAMPS (SPLICE)
27	B1 18WT	BACK-UP LAMP SWITCH
28	G40 22LB*	LOW FUEL SWITCH
29	V10 20BR	WINDSHIELD WASHER MOTOR
30	V11 20BK/TN*	LOW WASHER FLUID SENSOR
31	S2 14YL	IGNITION-STARTER RELAY
32	H2 18DG/RD*	HORN
33	T21 20GY/LB*	TACHOMETER
34	P51 20GY/BK*	BRAKE WARNING LAMP SWITCH
35	V5 18DG	WINDSHIELD WIPER MOTOR (ON/OFF)
36	V6 18OB	WINDSHIELD WIPER MOTOR (PULSE)
37	C20 18DB/OR*	AIR CONDITIONING LOW PRESSURE SWITCH
38	K3 20BK/PK*	POWER LOSS LAMP
39	G4 22DB/YL*	FUEL SENDING UNIT
40	X4 20LG/BR*	4-WHEEL DRIVE INDICATOR LAMP (3.9L)
41	D40 18WT/PK*	BRAKE SENSOR
42	G29 20GY/PK*	EMISSION MAINTENANCE REMINDER LAMP
43	L22 18BK	I.O.D. UNDERHOOD LAMP
44	U4 20OR/WT	OVERDRIVE LOCKOUT SWITCH
45	V3 18BR*	WINDSHIELD WIPER MOTOR (LOW SPEED)
46	V4 18RO/YL*	WINDSHIELD WIPER MOTOR (HIGH SPEED)
47	J2 14DB	IGNITION RUN & START
	J2 14DB	IGNITION RUN & START
48	C13 14BK/RD*	I.O.D.
49	J1 12RD	IGNITION SWITCH FEED
50	J10 12PK*	IGNITION SWITCH FEED

CAVITY		INSTRUMENT PANEL CIRCUITS	SHEET NO.
1	L1 12RD*	BATTERY FEED	4,6,31
2	—		
3	DS1 14WT/BR*	REAR WHEEL ANTI-LOCK MODULE	23
4	IS1 16LG*	REAR WHEEL ANTI-LOCK MODULE	23
5	L4 14VT*	HEADLAMPS LOW BEAM	27,29,31
6	L3 14RD/OR*	HEADLAMPS HIGH BEAM	27,29,31
7	X30 22DB/RD*	SPEED CONTROL (OPTION)	22
8	X31 22BR/RD*	SPEED CONTROL (OPTION)	22
9	X33 22WT/LG*	SPEED CONTROL (OPTION)	22
10	X32 20YL/RD*	SPEED CONTROL (OPTION)	22
11	T2 22LG/RD*	ENGINE OIL TEMPERATURE	19
12	L33 18RD/OR*	HIGH BEAM INDICATOR LAMP	27,29
13	L20 18LG/BK*	HIGH BEAM FEED (DRL MODULE)	29
14	VS1 18LB	REAR WHEEL ANTI-LOCK MODULE	23
15	D8 18DG/YL*	LEFT REAR TURN SIGNAL LAMP	35
16	D7 18BR/YL*	RIGHT REAR TURN SIGNAL LAMP	35
17	G20 22VT/YL*	TEMPERATURE GAUGE	19
18	G6 22GY	OIL PRESSURE LAMP	19
19	G60 22GY/YL*	OIL PRESSURE GAUGE	19
20	U3 22OR/BK *	SHIFT INDICATOR LAMP	25
21	D6 18LG	LEFT TURN SIGNAL LAMP	28,30,35
22	D5 18TN	RIGHT TURN SIGNAL LAMP	28,30,35
23	A3 16PK/WT*	HAZARD FLASHER	3,5,35
24	B01 18RD/VT*	R.W.A.L. (HIGH SENSOR)	23
	B01 18RD/VT*	R.W.A.L. (HIGH SENSOR)	
25	B02 18WT/VT*	R.W.A.L. (LOW SENSOR)	23
	B02 18WT/VT*	R.W.A.L. (LOW SENSOR)	
26	L7 18BK/YL*	PARKING LAMPS	28,30,31
	L7 18BK/YL*	PARKING LAMPS	
27	B1 20WT	BACK-UP LAMP SWITCH FEED	7,8,49,
	B1 20WT	BACK-UP LAMP SWITCH FEED	51
28	G40 22LB*	LOW FUEL SWITCH	59
29	V10 18BR	WINDSHIELD WASHER MOTOR	36,37
30	V11 22BK/TN*	LOW WASHER FLUID	36,37
31	S2 14YL	IGNITION START	7,8,9
32	H2 18DG/RD*	HORN FEED	26
33	T21 20GY/LB*	TACHOMETER	33
34	P51 20GY/BK*	BRAKE WARNING LAMP	9
	P51 20GY/BK*	BRAKE WARNING LAMP	
35	V5 18DG	WINDSHIELD WIPER SWITCH	36,38
36	V6 18DB	WINDSHIELD WIPER SWITCH	36,38
37	C20 22DB/OR*	AIR CONDITIONER CLUTCH	49,51
38	K3 20BK/PK*	POWER LOSS LAMP	13,17
39	G4 22DB/YL*	FUEL GAUGE	59
40	X4 20LG/BR*	4 WHEEL DRIVE INDICATOR LAMP	20
41	D40 18WT/PK*	BRAKE SENSOR	22,24
42	G29 22GY/PK*	EMISSION MAINTENANCE REMINDER LAMP	13,17
43	L22 18BK/LG*	UNDER HOOD LAMP	3,5,33
44	U4 20OR/WT*	OVERDRIVE LOCKOUT SWITCH	25
45	V3 18BR *	WINDSHIELD WIPER LOW SPEED FEED	36,38
46	V4 18RD/YL*	WINDSHIELD WIPER HIGH SPEED FEED	36,38
47	J2 14DB	IGNITION RUN/START	9,12,16
	J2 14DB	IGNITION RUN/START	
48	C13 14BK/RD*	BATTERY FEED	3,5,9,43,45,57
49	J1 12RD	IGNITION SWITCH FEED	4,6
50	J10 12PK*	IGNITION SWITCH	4,6,9



TERMINAL END
OF DISCONNECT

SMALL
INDEX



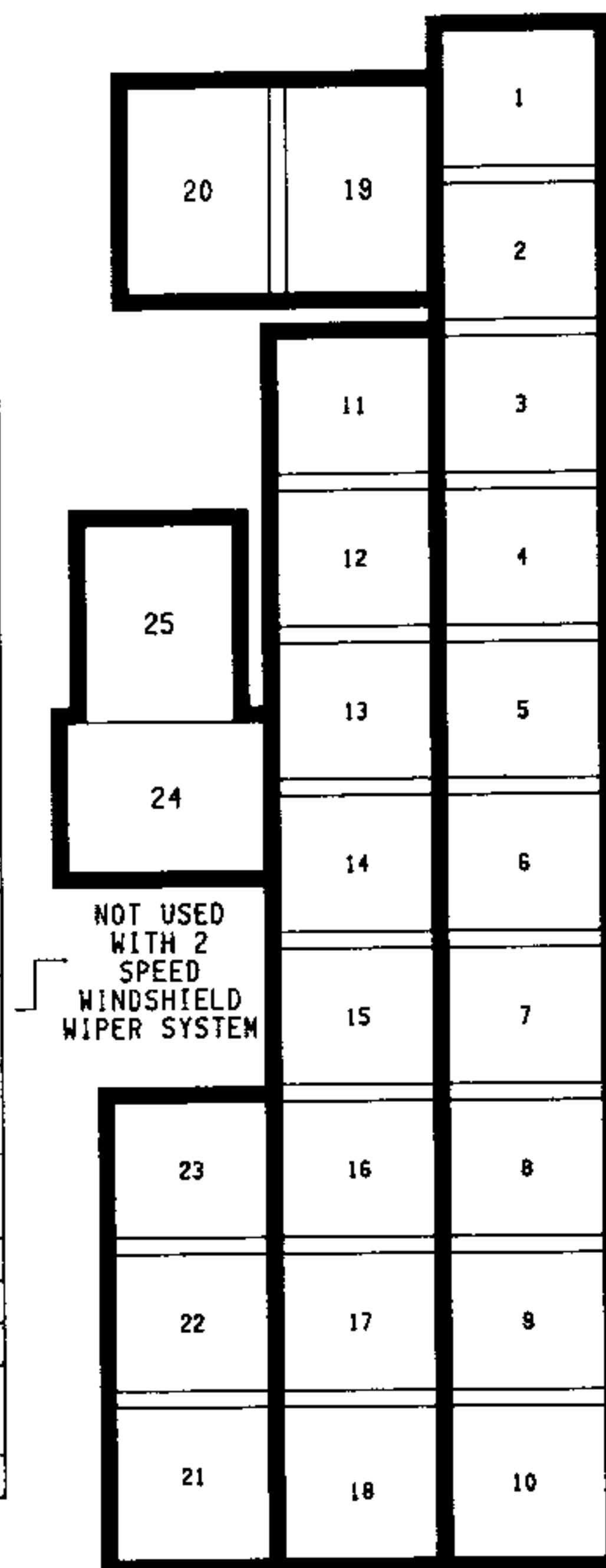
LARGE
INDEX



STRG
COLUMN

VIEWED FROM WIRE END

CAV	CIRCUIT	DESCRIPTION
1	_____	
2	H4 18BK H4 20BK	HORN AND KEY-IN LAMP GROUND (STANDARD COLUMN)
3	H3 22BK/RD *	GROUND FROM HORN SWITCH
4	D6 18LG D6 18LG	LEFT FRONT TURN SIGNAL
5	D5 18TN D5 18TN	RIGHT FRONT TURN SIGNAL
6	D32 18PK *	HAZARD FLASHER FEED
7	D2 18RD/BK *	FEED FROM TURN SIGNAL FLASHER
8	D8 18DG/YL *	LEFT REAR TURN SIGNAL
9	D7 18BR/YL *	RIGHT REAR TURN SIGNAL
10	D4 18WT D4 18WT	REAR WHEEL ANTI-LOCK MODULE FEED FROM BRAKE SWITCH
11	V3 18BR *	WINDSHIELD WIPER SWITCH
12	V3 18BR *	WINDSHIELD WIPER LOW SPEED
13	V4 18RD/YL *	WINDSHIELD WIPER HIGH SPEED
14	V5 18DG	WINDSHIELD WIPER MOTOR
15	V6 18DB	WINDSHIELD WIPER SWITCH FEED
16	V10 18BR	WINDSHIELD WASHER MOTOR
17		
18	H40 18BK/LG * H40 18BK/LG *	INTERMITTENT WIPER MODULE GROUND
19	M26 22LB M26 22LB	KEY-IN BUZZER
20	M16 20BK/LB * M16 20BK/LB *	LEFT FRONT DOOR JAMB SWITCH GROUND
21	_____	
22	_____	
23	_____	
24	J15 20YL/RD * J15 20YL/RD *	IGNITION KEY LAMP FEED
25	H4 20BK	IGNITION KEY LAMP GROUND



(LEFT OF STEERING COLUMN)

INSTRUMENT PANEL TO
STEERING COLUMN WIRING

CAV	CIRCUIT	DESCRIPTION	SHEET NO.
1	—		
2	H4 18BK	HORN AND KEY-IN LAMP GROUND	26,34
3	H3 18BK/RD*	HORN SWITCH GROUND	26
4	D6 18LG	LEFT FRONT TURN SIGNAL	35
5	D5 18TN	RIGHT FRONT TURN SIGNAL	35
6	D32 16PK	HAZARD FLASHER FEED	35
7	D2 18RD/8K*	TURN SIGNAL FLASHER FEED	35
8	D8 18DG/RD*	LEFT REAR TURN SIGNAL	35
9	D7 18BR/YL*	RIGHT REAR TURN SIGNAL	35
10	D4 16WT	BRAKE SWITCH FEED	35

STRG
COLUMNTURN SIGNAL
SWITCH
CONNECTOR

11	V3 18BR*	WINDSHIELD WIPER SWITCH	36,37
12	V3 18BR* V3 18BR*	INTERMITTENT WIPER MODULE WINDSHIELD WIPER LOW SPEED	36,37
13	V4 18RD/YL*	WINDSHIELD WIPER HIGH SPEED	36,37
14	V5 18DG V5 18DG	INTERMITTENT WIPER MODULE WINDSHIELD WIPER MOTOR	36,38
15	V6 18DB	WINDSHIELD WIPER SWITCH FEED	36,37
16	V10 18BR V10 18BR	INTERMITTENT WIPER MODULE WINDSHIELD WASHER MOTOR	36,37
17	—		
18	H40 18BK/LG*	INTERMITTENT WIPER MODULE GROUND	38

WINDSHIELD
WIPER SWITCH
CONNECTOR

19	M26 20LB	KEY-IN BUZZER OR CHIME	34
20	M16 20BK/LB*	LEFT FRONT DOOR JAMB SWITCH GROUND	34

KEY-IN BUZZER
SWITCH CONNECTOR

24	J15 18YL	IGNITION KEY LAMP FEED	34
25	H4 18BK	IGNITION KEY LAMP GROUND (TILT COLUMN)	34

IGNITION KEY LAMP
SWITCH CONNECTOR(PLUGGED INTO STEERING COLUMN
25 WAY CONNECTOR)STEERING COLUMN SWITCH
TO PANEL WIRING