

TOYOTA

ELECTRICAL WIRING DIAGRAM

FR

AE86 series May, 1983

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FOREWORD

This wiring diagram has been prepared to provide information on the electrical system of the TOYOTA COROLLA FR series.

All information in the manual is based on the latest product information at the time of publication. However, specifications and procedures are subject to change without notice.

TOYOTA MOTOR CORPORATION

Name of your TOYOTA

COROLLA: except in Australia
SPRINTER: in Australia

TOYOTA COROLLA FR ELECTRICAL WIRING DIAGRAM

INTRODUCTION	A
TROUBLESHOOTING	B
POWER SOURCE	1
STARTING AND IGNITION SYSTEMS	2
CHARGING SYSTEM	3
EFI SYSTEM	4
CARBURETOR	5
OVERDRIVE	6
IDLE-UP	7
HEADLIGHTS	8
TURN SIGNAL AND HAZARD WARNING LIGHTS	9
TAILLIGHTS AND ILLUMINATION	10
INTERIOR LIGHTS	11
STOP LIGHTS	12
BACK-UP LIGHTS	13
REAR FOG LIGHTS	14
HEADLIGHT CLEANER	15
SEAT BELT WARNING	16
FRONT WIPERS AND WASHER	17
REAR WIPER AND WASHER	18
REAR WINDOW DEFOGGER	19
CIGARETTE LIGHTER AND CLOCK	20
RADIO AND HORN	21
COMBINATION METER	22
AIR CONDITIONER	23
SUN ROOF	24
GROUND POINTS	25
RELAY LOCATIONS	
ELECTRICAL WIRING ROUTING	
COMPLETE ELECTRICAL WIRING DIAGRAM	

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A INTRODUCTION

As shown in the index, the entire electrical system is composed of 25 systems, including the power source and ground points.

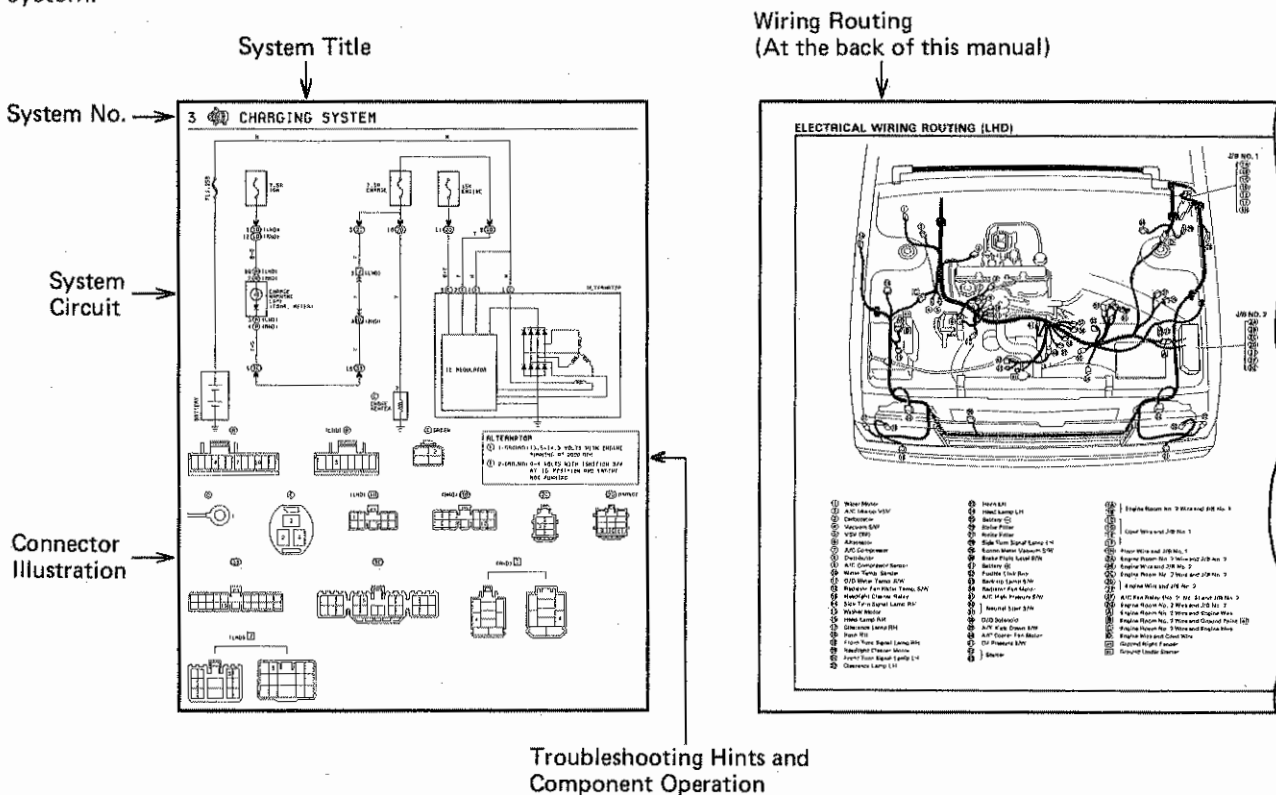
The power source illustrations show how battery power is distributed to each fuse and which loads in the system the fuses protect.

Most systems are drawn from the fuse location. Joining the power source with any system will result in the complete system.

All ground points are illustrated along with the relationship between component grounds.

The wiring routings and relay locations can be found at the back of this manual.

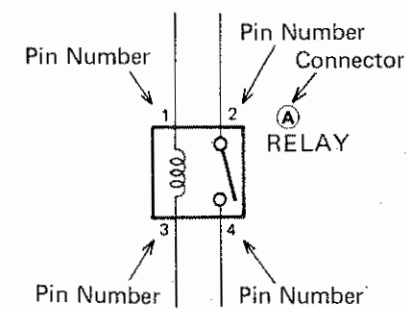
The circuit, connectors, troubleshooting hints and component operation are illustrated for each system.



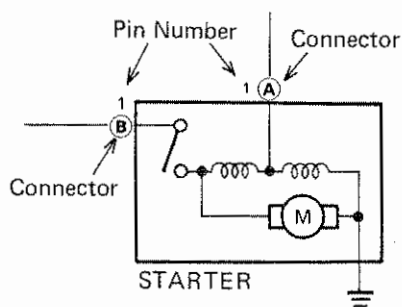
CONNECTORS

Connectors and connector pin numbers are indicated in each circuit. Wires and pins of the connectors are also clearly illustrated.

a. Connector to Component **(A)** **(B)** **(C)**

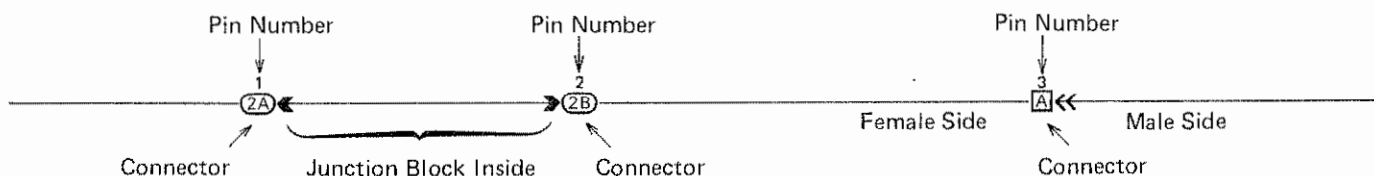


Single Connector to One Component



Multiple Connectors to One Component

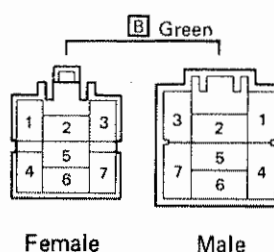
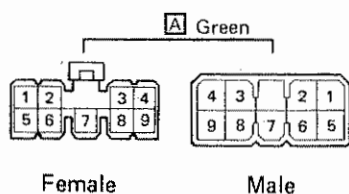
- b. Connector to Junction Block No. 1 (Cowl Side) (1A) (1B) (1J)
 Connector to Junction Block No. 2 (Engine Room) (2A) (2B) (2G)
 Connector to Junction Block No. 3 (Instrument Panel) (3A) (3B) (3F)
 Connector to Junction Block No. 4 (Cowl Side) (4A)
 Connector Joining Wire Harness and Wire Harness (A) (B) (C)



These connector locations can be found in the wiring routing at the back of this manual.

The connectors are illustrated in relation to the wiring side and not the component side, and these are seen from the open end. Connector colors are shown to assist in location.

Connector pins are numbered in each connector. Female connectors are numbered from left to right and from top to bottom. Male connectors are numbered from right to left and from top to bottom. (i.e., a male connector is numbered in relation to its female connector.)



WIRE COLOR

Wire colors are indicated by an alphabetical code.

B = Black	V = Violet	P = Pink	LG = Light Green
GR = Grey	BR = Brown	W = White	R = Red
O = Orange	L = Light Blue	G = Green	Y = Yellow

The first letter indicates the basic wire color and the second letter indicates the color of the stripe.

Example: R—G indicates a Red wire with a Green stripe.

ABBREVIATIONS

The following abbreviations are used in this manual.

A/C = Air Conditioner	FL = Fusible Link
CB = Circuit Breaker	GEN = General
ECU = Electronic Control Unit	J/B = Junction Block
EFI = Electronic Fuel Injection	LHD = Left-hand Drive Vehicle
EUR = Europe	RHD = Right-hand Drive Vehicle
Ex. = Except	VSV = Vacuum Switching Valve

TROUBLESHOOTING HINTS AND COMPONENT OPERATION

For assistance in understanding the system and help in repair, voltage, resistance or operation of each component is shown in the box.

B TROUBLESHOOTING

TROUBLESHOOTING PROCEDURE

1. Determine what is wrong with the system.
2. First read the diagram so you understand the system. Refer to the component operation boxed within the system circuit.
3. Locate the cause of the problem.
 - a. Determine whether the problem is with the common circuit (power source or ground) or individual circuit.

Check other loads or switches which are in parallel with the problem component.

If they are normal, the problem lies within the particular system itself.

Refer to the POWER SOURCE or GROUND POINTS and check the related systems.

(NOTE: Each component is grounded at 2 or 3 points.)

If the related systems are normal, the common circuit (power source or ground points) is okay.

The problem lies within the individual system.
 - b. Locate the exact point of the problem by narrowing down the area with a voltmeter or test lamp.
4. Repair and re-check the circuit.

If any wiring was disconnected for troubleshooting, reconnect it and check the related circuits.

VOLTAGE CHECK

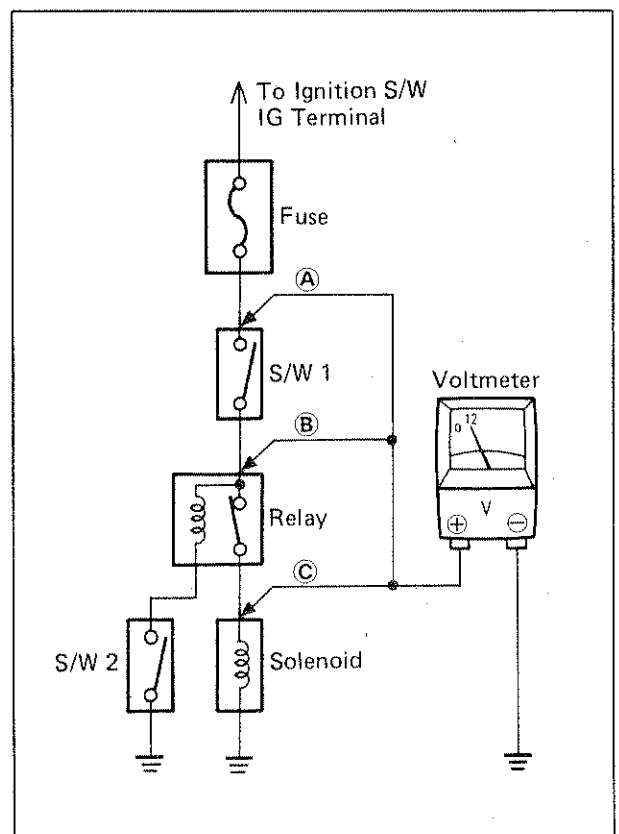
1. Establish conditions in which voltage is present at the check point.

(Refer to component operations.)

Example:

- Ⓐ — Ignition S/W on
- Ⓑ — Ignition S/W and S/W 1 on
- Ⓒ — Ignition S/W, S/W 1 and Relay on (S/W 2 off)

2. Using a voltmeter, connect the negative lead to a good ground point or negative battery terminal and the positive lead to the connector or component terminal. This check can be done with a test lamp instead of a voltmeter.



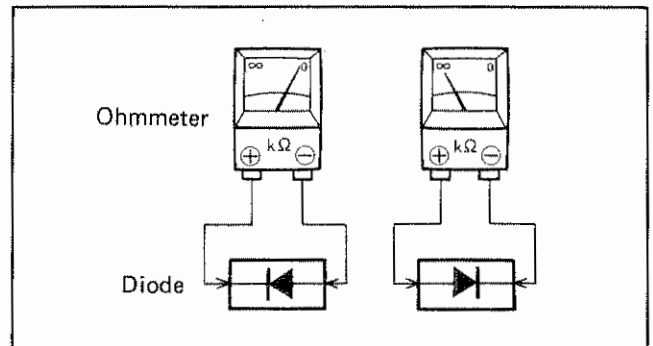
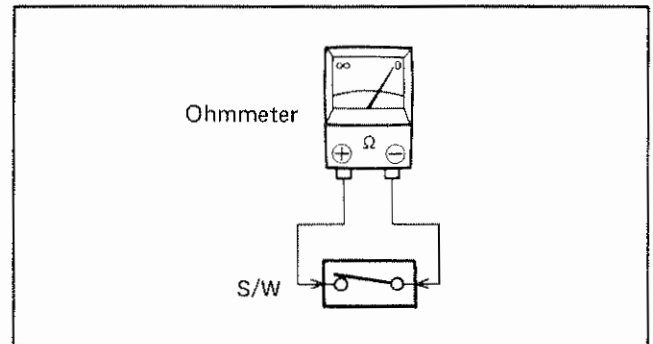
CONTINUITY AND RESISTANCE CHECK

1. Disconnect the battery terminal or wire so there is no voltage between the check points.
2. Contact the two leads of an ohmmeter to each of the check points.

If the circuit has diodes, reverse the two leads and check again.

When contacting the negative lead to the diode positive side and the positive lead to the negative side, there should be continuity.

When contacting the two leads in reverse, there should be no continuity.



FINDING A SHORT CIRCUIT

1. Remove the blown fuse and disconnect all loads of the fuse.
2. Connect a test lamp in place of the fuse.
3. Establish conditions in which the test lamp comes on.

(Refer to component operations.)

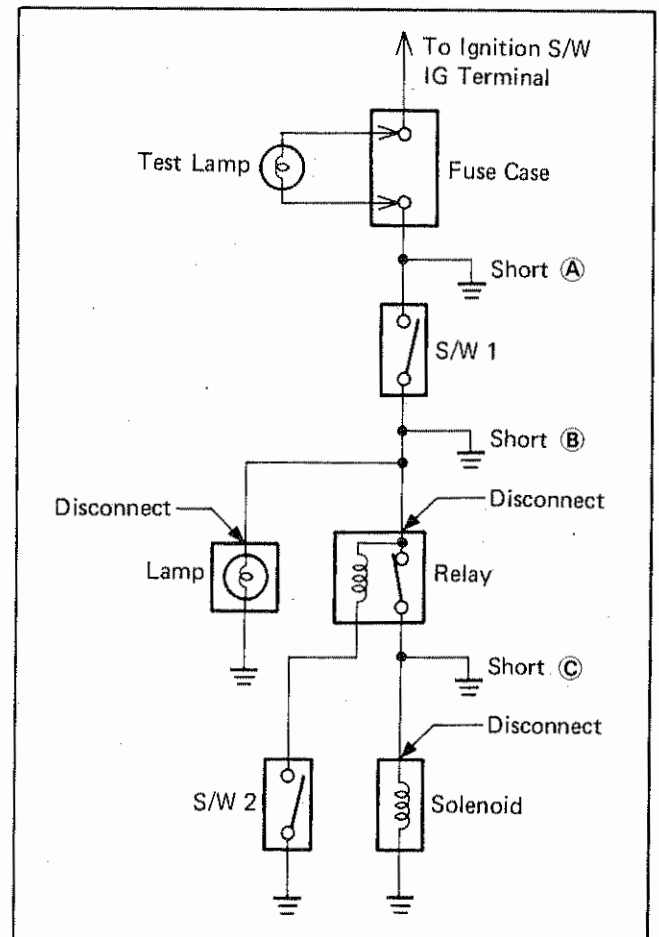
Example:

- Ⓐ — Ignition S/W on
- Ⓑ — Ignition S/W and S/W 1 on
- Ⓒ — Ignition S/W, S/W 1 and Relay on (Connect the Relay) and S/W 2 off (or Disconnect S/W 2)

4. Disconnect and reconnect the connectors while watching the test lamp.

The short lies between the connector where the test lamp stays lit and the connector where the lamp goes out.

5. Find the exact location of the short by lightly shaking the problem wire along the body.





J/B No.1

Power		Load	System No.
7.5A	DOME	Digital Clock	20
		Interior Lamp, Map Lamp, Door Warning Lamp, Luggage Room Lamp	11
		Rear Fog Light Relay, Rear Fog Lamp	14
30A	ECU-IG	Sun Roof Motor	24
7.5A	RADIO NO. 2	Radio and Stereo Player	21
15A	CIG	Cigarette Lighter, Digital Clock	20
7.5A	TURN	Turn Signal Flasher, Turn Signal Lamp, Turn Signal S/W	9
7.5A	GAUGE	Combination Meter, Chime	22
		Back-up Light S/W, Back-up Lamp	13
		Overdrive Relay	6
		Defogger S/W, Defogger Relay	19
		Heater Relay	23
		Seat Belt Warning Relay, Seat Belt Warning Lamp	16
7.5A	IGN	Engine Main Relay	1
		Charge Warning Lamp	3
20A	WIPER	Washer Motor, Wiper Motor	17
		Rear Washer Motor, Rear Wiper Motor, Washer Valve	18
		Headlight Cleaner Relay (EUR LHD)	15
15A	STOP	Stop Light S/W, Stop Lamp	12
10A	RTR	Retract Control Relay	8
10A	TAIL LH (W. Germany)	Clearance Lamp LH, Taillamp LH	10
10A	TAIL RH (W. Germany)	Clearance Lamp, Taillamp, Licence Plate Lamp, Radio Lamp, Cigarette Lighter Lamp, Heater Control Lamp, Combination Meter Lamp, A/T Indicator Lamp, Overdrive S/W Lamp	10
		Digital Clock	20
		Headlight Cleaner Relay (EUR LHD)	15
15A	TAIL (Ex. W. Germany)	Clearance Lamp, Taillamp, Licence Plate Lamp, Radio Lamp, Cigarette Lighter Lamp, Heater Control Lamp, Combination Meter Lamp, A/T Indicator Lamp	10
		Digital Clock	20
		Headlight Cleaner Relay (EUR LHD)	15
30A	DEFOG CB (LHD)	Rear Window Defogger	19
20A	DEFOG CB (RHD)	Rear Window Defogger, Defogger S/W	19

J/B No.2

Power		Load	System No.
10A	HEAD LH (Ex. W. Germany)	Headlamp LH	8
10A	HEAD RH (Ex. W. Germany)	Headlamp RH	8
10A	HEAD LH-UPR (W. Germany)	Headlamp LH (Upper), High Beam Indicator Lamp	8
10A	HEAD RH-UPR (W. Germany)	Headlamp RH (Upper)	8
10A	HEAD LH-LWR (W. Germany)	Headlamp LH (Lower)	8
10A	HEAD RH-LWR (W. Germany)	Headlamp RH (Lower)	8
10A	ENGINE	Voltage Regulator	3
		Fuel Cut Solenoid	5
10A	RADIO NO. 1	Radio and Stereo Player	21
10A	HAZ-HORN	Horn	21
		Hazard S/W, Hazard Lamp	9
7.5A	CHARGE	Charge Warning Lamp	3
		Choke Heater	5
15A	EFI	EFI Main Relay	4
30A	FL RTR	Retract Relay	8

J/B No.4

10A	A/C	A/C S/W, A/C Amplifier	23
30A	HEATER CB	Heater Relay, Blower Motor	23

Fusible Link Box

60A	FL AM1	Engine Main Relay, Ignition S/W (AM1)	1
		Alternator	3
		Defogger Relay	19
		Headlight Cleaner Relay (EUR LHD)	15
		Taillight Relay	10
30A	FL AM2	Ignition S/W (AM2)	1

Fusible Link (Near the Battery)

FL 0.5G	Headlight Relay, Dimmer Relay (W. Germany)	8
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(A) FUSIBLE LINK BOX

AM1: 80A EFI
60A EXCEPT EFI
AM2: 30A

TAILLIGHT RELAY

CLOSED WITH LIGHT CONTROL S/W AT TAIL OR HEAD POSITION

ENGINE MAIN RELAY

CHANGED WITH IGNITION S/W AT IG OR ST POSITION

HEADLIGHT RELAY

CLOSED WITH LIGHT CONTROL S/W AT HEAD POSITION
OR DIMMER S/W AT FLASH POSITION

DIMMER RELAY

CHANGED FROM HEAD-LWR TO HEAD-UPR WITH
DIMMER S/W AT FLASH POSITION OR WITH
HEADLIGHT RELAY ON AND DIMMER S/W AT HIGH POSITION

(C) HEATER RELAY

4-5: CLOSED WITH IGNITION S/W ON AND BLOWER S/W ON

DEFOGGER RELAY

CLOSED WITH IGNITION S/W AT IG POSITION
AND DEFOGGER S/W ON

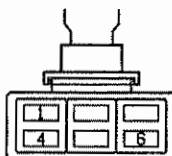
(E) IGNITION S/W

4-3: CLOSED WITH IGNITION KEY AT ACC OR IG POSITION

4-2: CLOSED WITH IGNITION KEY AT IG OR ST POSITION

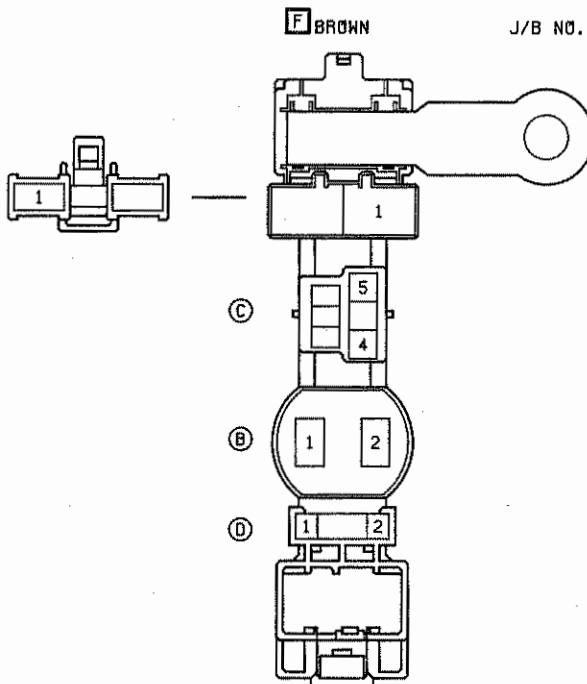
8-7: CLOSED WITH IGNITION KEY AT IG OR ST POSITION

(A) BLACK

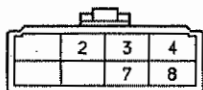


(F) BROWN

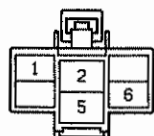
J/B NO.4



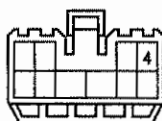
(E) BLACK



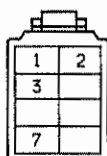
(1B) BLACK



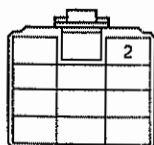
(1C)



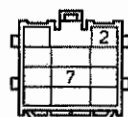
(1F) ORANGE



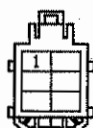
(1G)



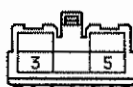
(2A)



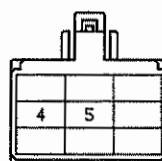
(2C)



(2E) BLACK



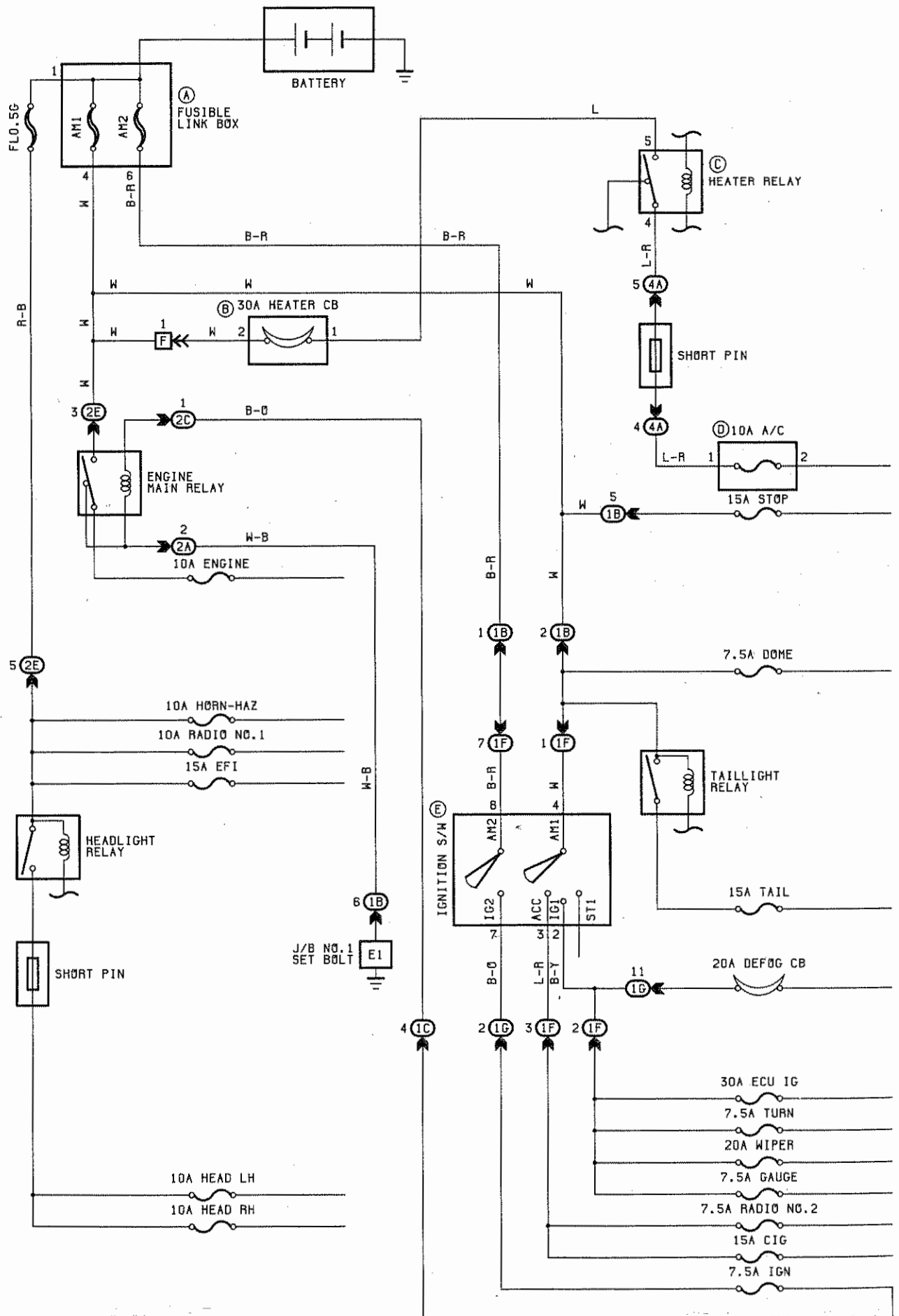
(4A)



1-3



POWER SOURCE (RHD)



Ⓐ FUSIBLE LINK BOX

AM1: 80A EFI
60A EXCEPT EFI
AM2: 30A

TAILLIGHT RELAY

CLOSED WITH LIGHT CONTROL S/W AT TAIL OR HEAD POSITION

ENGINE MAIN RELAY

CHANGED WITH IGNITION S/W AT IG OR ST POSITION

HEADLIGHT RELAY

CLOSED WITH LIGHT CONTROL S/W AT HEAD POSITION
OR DIMMER S/W AT FLASH POSITION

Ⓒ HEATER RELAY

4-5: CLOSED WITH IGNITION S/W ON AND BLOWER S/W ON

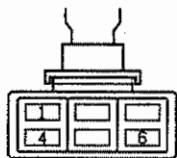
Ⓔ IGNITION S/W

4-3: CLOSED WITH IGNITION KEY AT ACC OR IG POSITION

4-2: CLOSED WITH IGNITION KEY AT IG OR ST POSITION

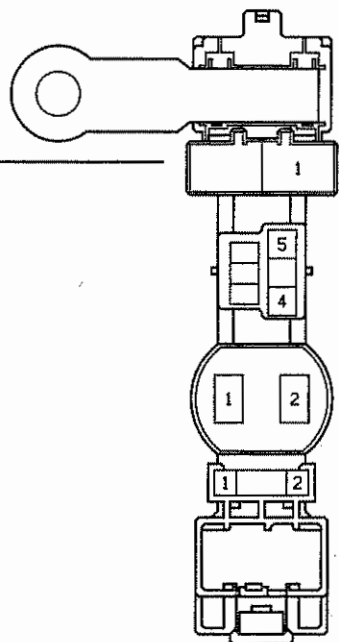
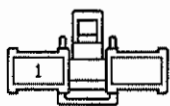
8-7: CLOSED WITH IGNITION KEY AT IG OR ST POSITION

Ⓐ BLACK



Ⓕ ORANGE

J/B NO.4

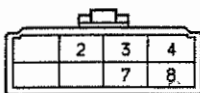


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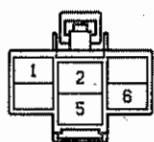
Ⓑ

Ⓓ

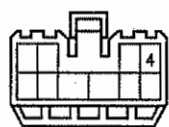
Ⓔ BLACK



ⒾB BLACK



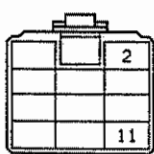
ⒿC



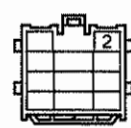
ⒿF ORANGE



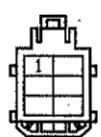
ⒿG



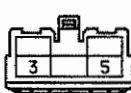
2A



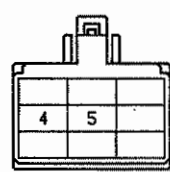
2C



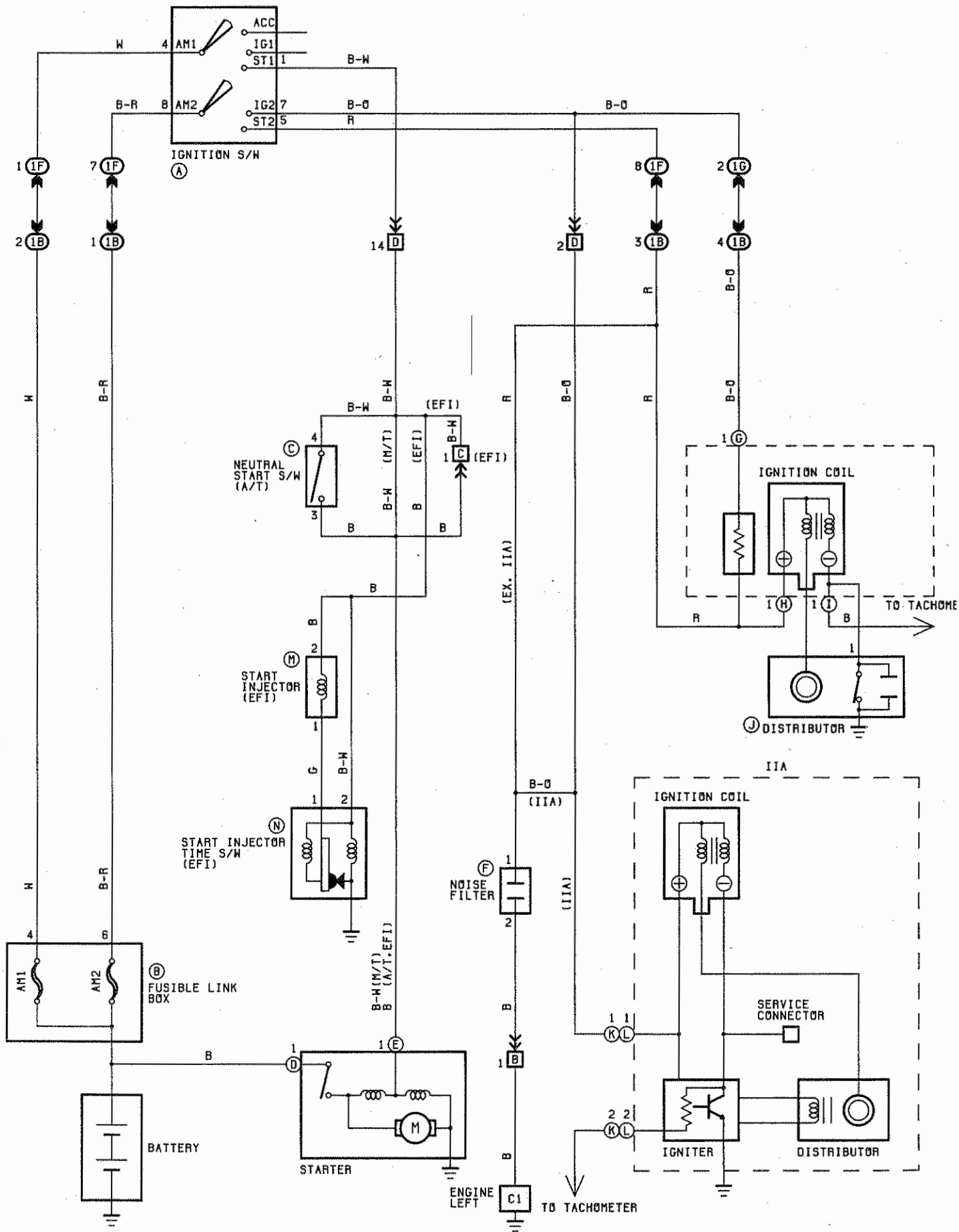
2E BLACK



4A



2 STARTING AND IGNITION SYSTEMS



⑧ FUSIBLE LINK BOX

AM1: 80 A EFI

60 A EXCEPT EFI

AM2: 30 A

① IGNITION S/W

4-1 : CLOSED WITH IGNITION S/W AT ST POSITION

8-5,8-7: CLOSED WITH IGNITION S/W AT IG OR ST POSITION

② NEUTRAL START S/W (A/T)

CLOSED WITH A/T SHIFT LEVER IN P OR N POSITION

STARTER

POINTS CLOSED WITH NEUTRAL START S/W ON (A/T) AND
IGNITION S/W AT ST POSITION

③ START INJECTOR (EFI)

1-2: 12VOLTS WHILE START INJECTOR TIME S/W POINTS ARE
CLOSED AND STARTER CRANKING

④ START INJECTOR TIME S/W (EFI)

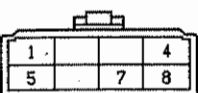
POINTS OPEN MORE THAN 35°C (95°F)

2-1 : 25-35Ω LESS THAN 35°C (95°F)

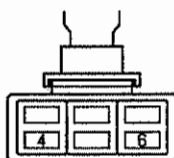
64-76Ω MORE THAN 35°C (95°F)

2-GROUND: 25-76Ω

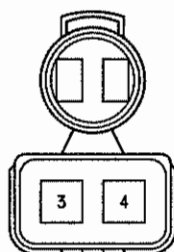
① BLACK



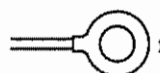
② BLACK



③



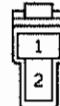
④ ⑤



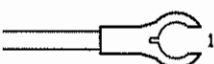
⑥ BLACK



⑦ BLUE



⑧ ⑨



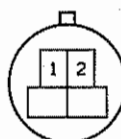
⑩ GREEN



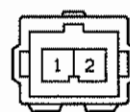
⑪ GREEN



⑫ GREEN



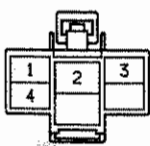
(EFI) ⑬ BLACK



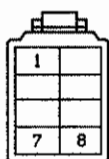
(EFI) ⑭ BROWN



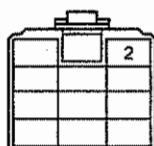
⑮ BLACK



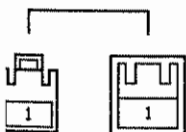
⑯ ORANGE



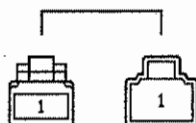
⑰



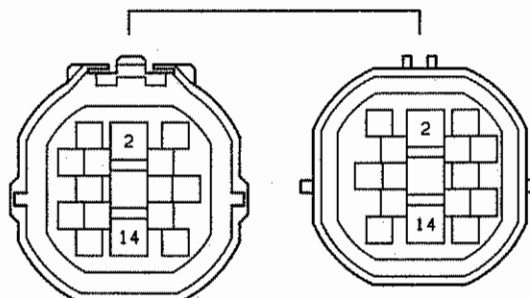
⑱



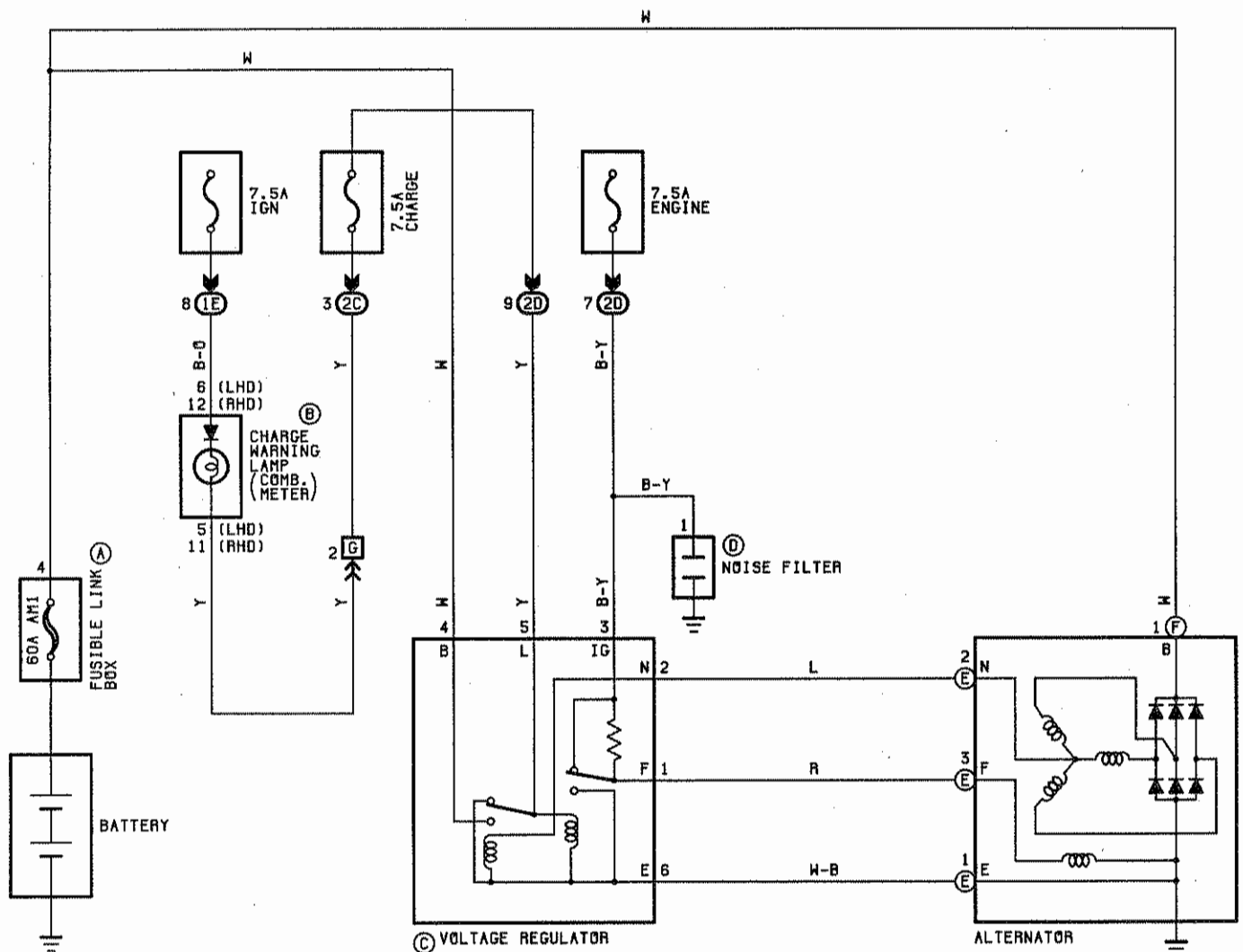
(EFI) ⑲ BLACK



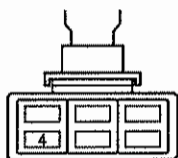
⑳ BLACK



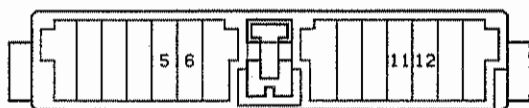
3-1 CHARGING SYSTEM



(A) BLACK



(B) BLUE



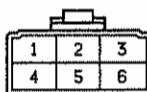
(B) CHARGE WARNING LAMP

5 (LHD), 11 (RHD) - GROUND: CONTINUITY WITH ALTERNATOR NOT RUNNING
5 (LHD), 11 (RHD) - GROUND: 12 VOLTS WITH ALTERNATOR RUNNING

(C) VOLTAGE REGULATOR

4-6 : 13.6-14.8 VOLTS WITH ENGINE RUNNING AT 2,000 RPM
4-5 : CLOSED WITH ALTERNATOR CHARGING
2-6 : 6.9-7.4 VOLTS WITH ALTERNATOR CHARGING
5-6 : CLOSED WITH ALTERNATOR NOT CHARGING
(2-6 : 0 VOLT WITH ALTERNATOR NOT RUNNING)

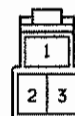
(C) BLACK



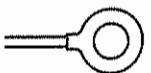
(D)



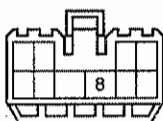
(E) BLACK



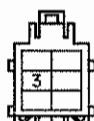
(F)



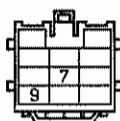
(1E)



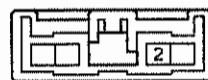
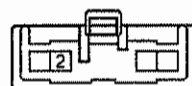
(2C)

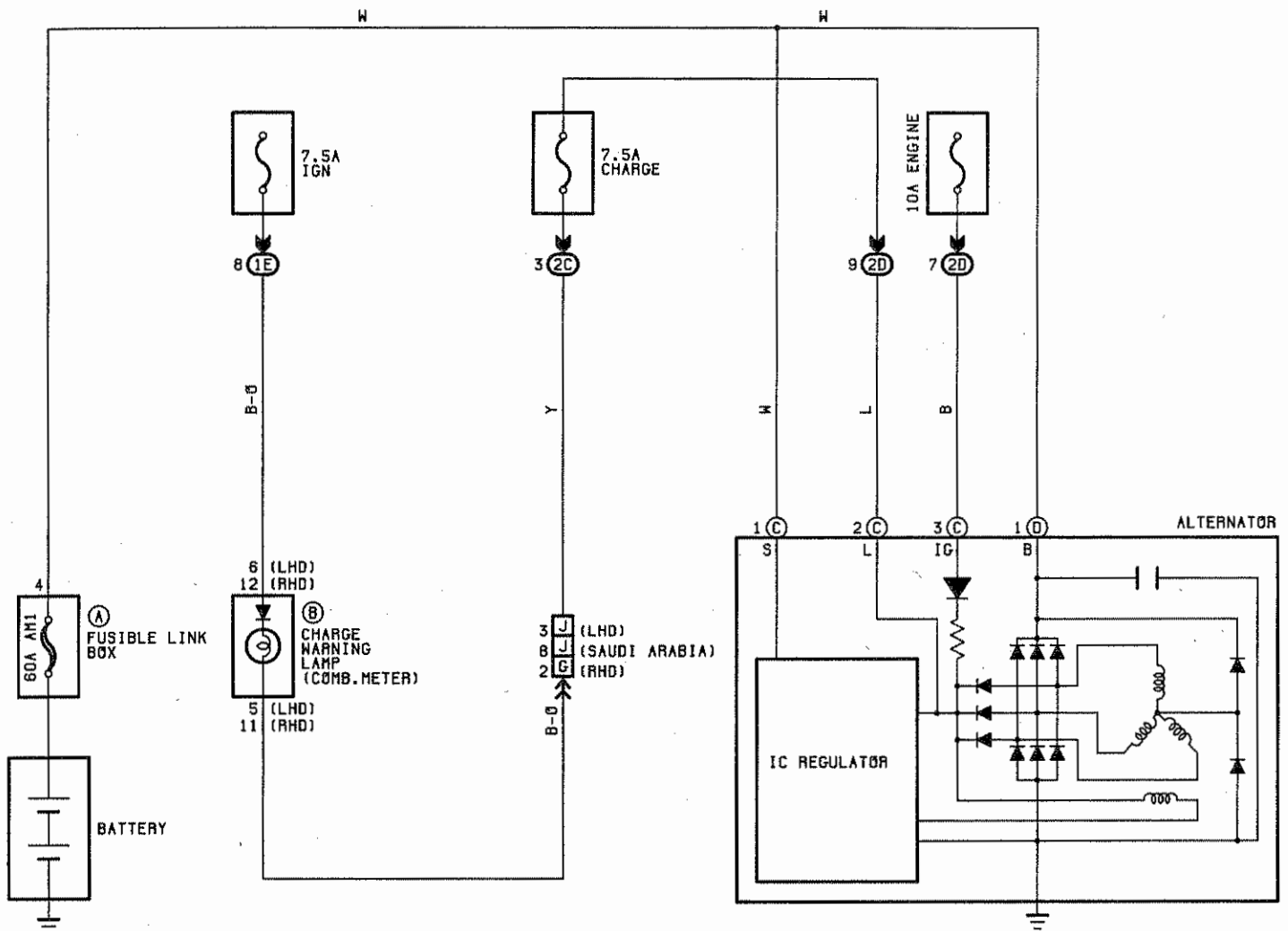


(2D) ORANGE

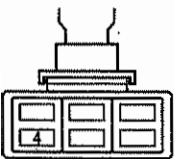


(G)

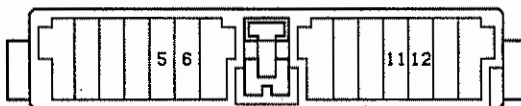




(A) BLACK



(B) BLUE



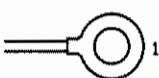
ALTERNATOR

- (C) 1-GROUND: 13.5-14.3 VOLTS WITH ENGINE RUNNING AT 2000 RPM
- (C) 2-GROUND: 0-4 VOLTS WITH IGNITION S/W AT IG POSITION AND ENGINE NOT RUNNING

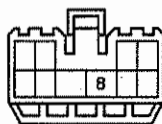
(C) BLACK



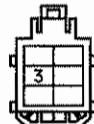
(D)



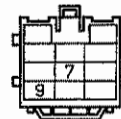
(1E)



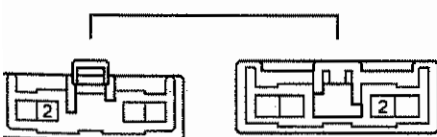
(2C)



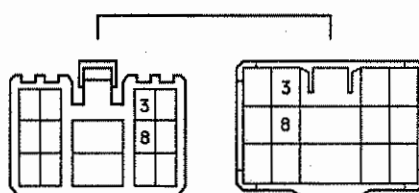
(2D) ORANGE



(RHD) (G)

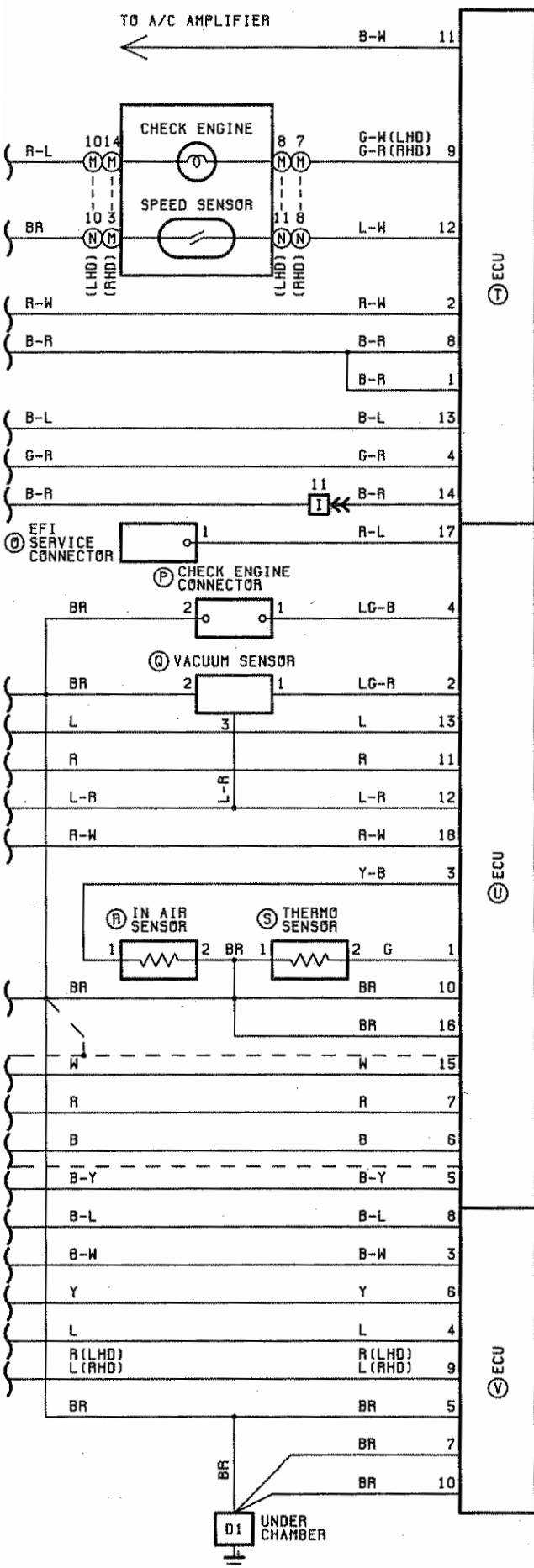


(J)





TO A/C AMPLIFIER



EFI MAIN RELAY NO.1, NO.2

CLOSED WITH IGNITION S/W AT IG POSITION OR ST POSITION

① INJECTOR

1-2: 1.5-3.0 Ω

② CIRCUIT OPENING RELAY

1-2: CLOSED WITH STARTER RUNNING OR ENGINE RUNNING ABOVE 5 RPM

③ EFI VSV

1-2: APPROX. 40 Ω

④ CO CONTROL RESISTOR

2-3: APPROX. 5K Ω

⑤ THROTTLE SENSOR

3-4: CLOSED WITH THROTTLE VALVE OPEN LESS THAN 1.5°

3-4: OPEN WITH THROTTLE VALVE OPEN MORE THAN 1.5°

2-4: BELOW 1.0K Ω WITH THROTTLE VALVE FULLY CLOSED

RESISTANCE SLOWLY RISES WHEN THROTTLE VALVE SLOWLY OPENED

4.0-5.0K Ω WITH THROTTLE VALVE FULLY OPEN

⑥ VACUUM SENSOR

1-GROUND: APPROX. 3.6 VOLTS (750MMHG, 29.53 IN.HG, 100.0KPA)

APPROX. 2.4 VOLTS (450MMHG, 17.72 IN.HG, 60.0KPA)

APPROX. 1.2 VOLTS (150MMHG, 5.91 IN.HG, 20.0KPA)

⑦ IN AIR SENSOR AND THERMO SENSOR

1-2: 10-20K Ω (-20°C, -4°F)

4-7K Ω (0°C, 32°F)

2-3K Ω (20°C, 68°F)

0.9-1.3K Ω (40°C, 104°F)

0.4-0.7K Ω (60°C, 140°F)

0.2-0.4K Ω (80°C, 176°F)

ECU (ELECTRONIC CONTROL UNIT)

VOLTAGES AT ECU CONNECTORS

① 2- ② 7 : APPROX. 12VOLTS

① 8, ① 1- ② 7 : APPROX. 12VOLTS (IGNITION S/W ON)

① 13- ① 10: APPROX. 0VOLTS (THROTTLE VALVE FULLY CLOSED)

APPROX. 5VOLTS (THROTTLE VALVE OPEN MORE THAN 1.5°)

① 11- ① 10: APPROX. 5VOLTS (THROTTLE VALVE FULLY OPEN)

APPROX. 0.5VOLTS (THROTTLE VALVE FULLY CLOSED)

① 2- ① 10: APPROX. 3.6VOLTS (750MMHG, 29.53 IN.HG, 100.0KPA)

APPROX. 2.8VOLTS (200MMHG, 7.67 IN.HG, 26.7KPA)

① 12- ① 10: APPROX. 5VOLTS (IGNITION S/W ON)

① 3- ① 10: APPROX. 2.2VOLTS (20°C, 68°F)

① 1- ① 10: APPROX. 0.5VOLTS (80°C, 176°F)

② 3- ② 7 : APPROX. 9VOLTS (STARTER RUNNING)

② 4, ② 9- ② 5, ② 10: APPROX. 12VOLTS (IGNITION S/W ON)

APPROX. 14VOLTS (IDLING)

APPROX. 13VOLTS (300RPM)

② 8, ② 5- ② 7: APPROX. 0.7VOLTS (IDLING)

② 6- ② 7: APPROX. 0.4VOLTS (AC, 300RPM)

② 15- ② 7: APPROX. 3VOLTS (AC, 300RPM)

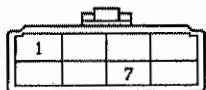
① 11- ② 7: APPROX. 0VOLTS (A/C OFF)

APPROX. 11VOLTS (A/C ON)

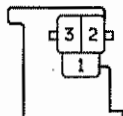
① 12- ② 7: APPROX. 5-9VOLTS (RUNNING)

4 **EFI** EFI SYSTEM

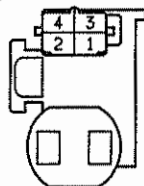
(A) BLACK



(LHD) (B)



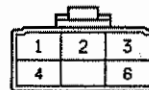
(RHD) (C)



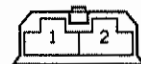
(D) GREY



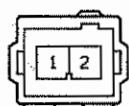
(E) YELLOW



(F) YELLOW



(LHD) (G) BLACK



(RHD) (G) BLUE



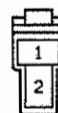
(EUR) (H) YELLOW



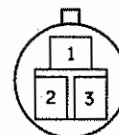
(I) BLACK



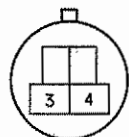
(J) YELLOW



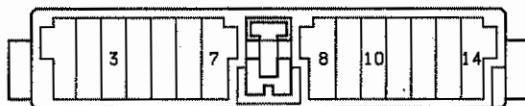
(K) YELLOW



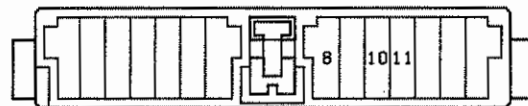
(L) GREEN



(M) BLUE



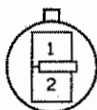
(N)



(O) YELLOW



(P) YELLOW



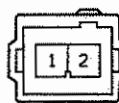
(Q) YELLOW



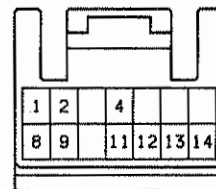
(R) YELLOW



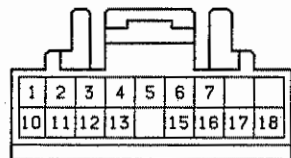
(S) GREEN



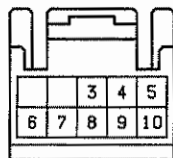
(T) YELLOW



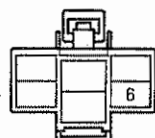
(U) YELLOW



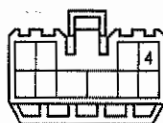
(V) YELLOW



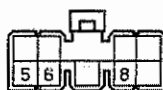
(RHD) (1B) BLACK



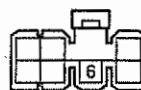
(1C)



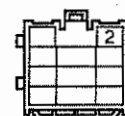
(1H)



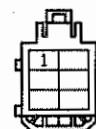
(1J)



(2A)

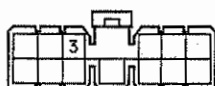
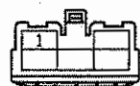


(2C)

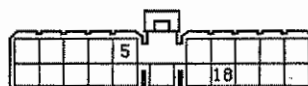


(2E) BLACK

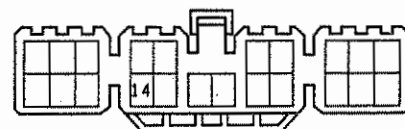
(SAUDI ARABIA) (3A)

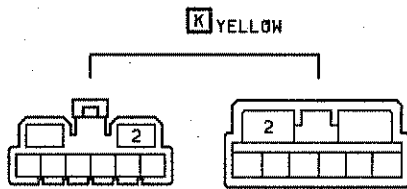
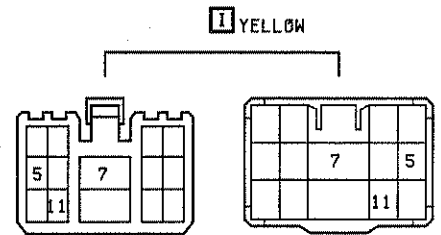
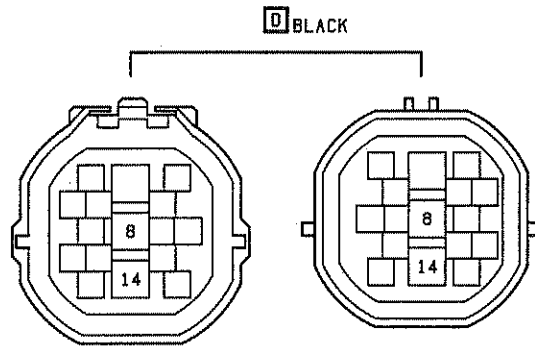
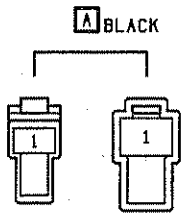
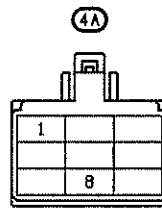
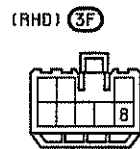
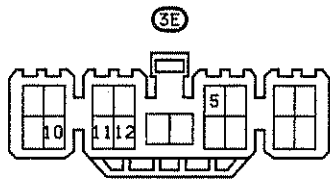


(3B)

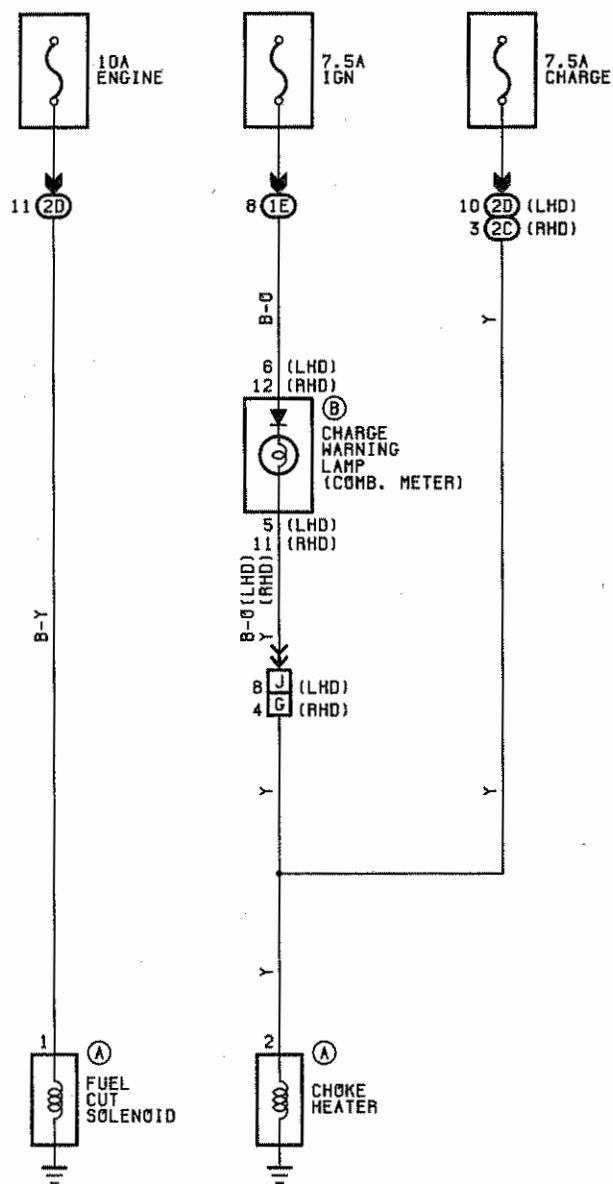


(3C)





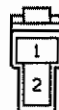
5 CARBURETOR



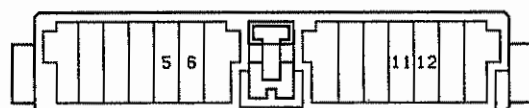
FUEL CUT SOLENOID

1-GROUND: 12 VOLTS WITH IGNITION S/W ON
CHOKE HEATER
2-GROUND: APPROX. 19-24 Ω AT 20°C (68°F)

(A) GREEN

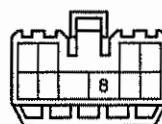


(B)

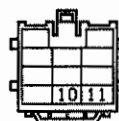


(1E)

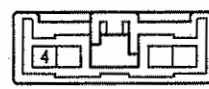
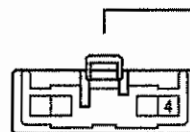
(RHD) (2C)



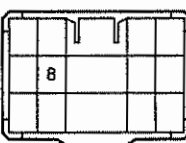
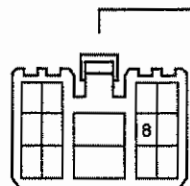
(2D) ORANGE

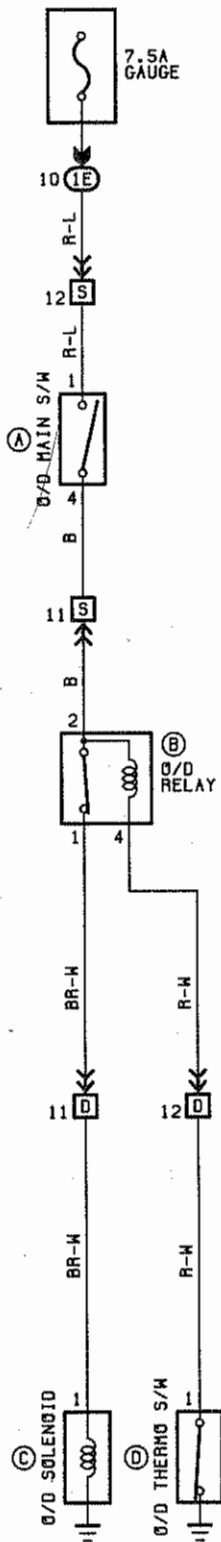


(RHD) (G)

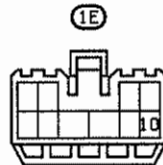
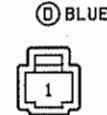
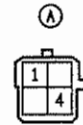


(LHD) (J)

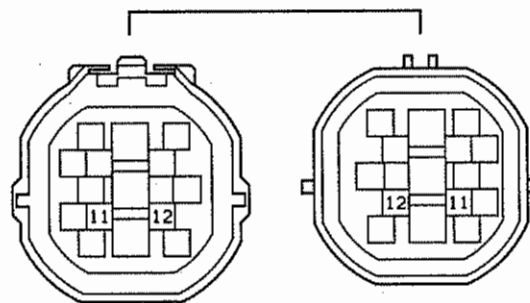




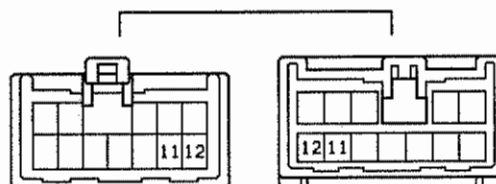
- (A) O/D MAIN S/W**
1-4: CLOSED WITH O/D S/W ON
CLOSED WITH O/D S/W OFF
- (B) O/D RELAY**
1-2: OPEN WITH IGNITION S/W ON AND
WATER TEMP. S/W CLOSED
2-4: APPROX. 71 Ω
- (C) O/D SOLENOID**
1-GROUND: APPROX. 13 Ω
- (D) O/D THERMO S/W**
1-GROUND: CLOSED BELOW 43°C (109° F)
OPEN ABOVE 55°C (131° F)



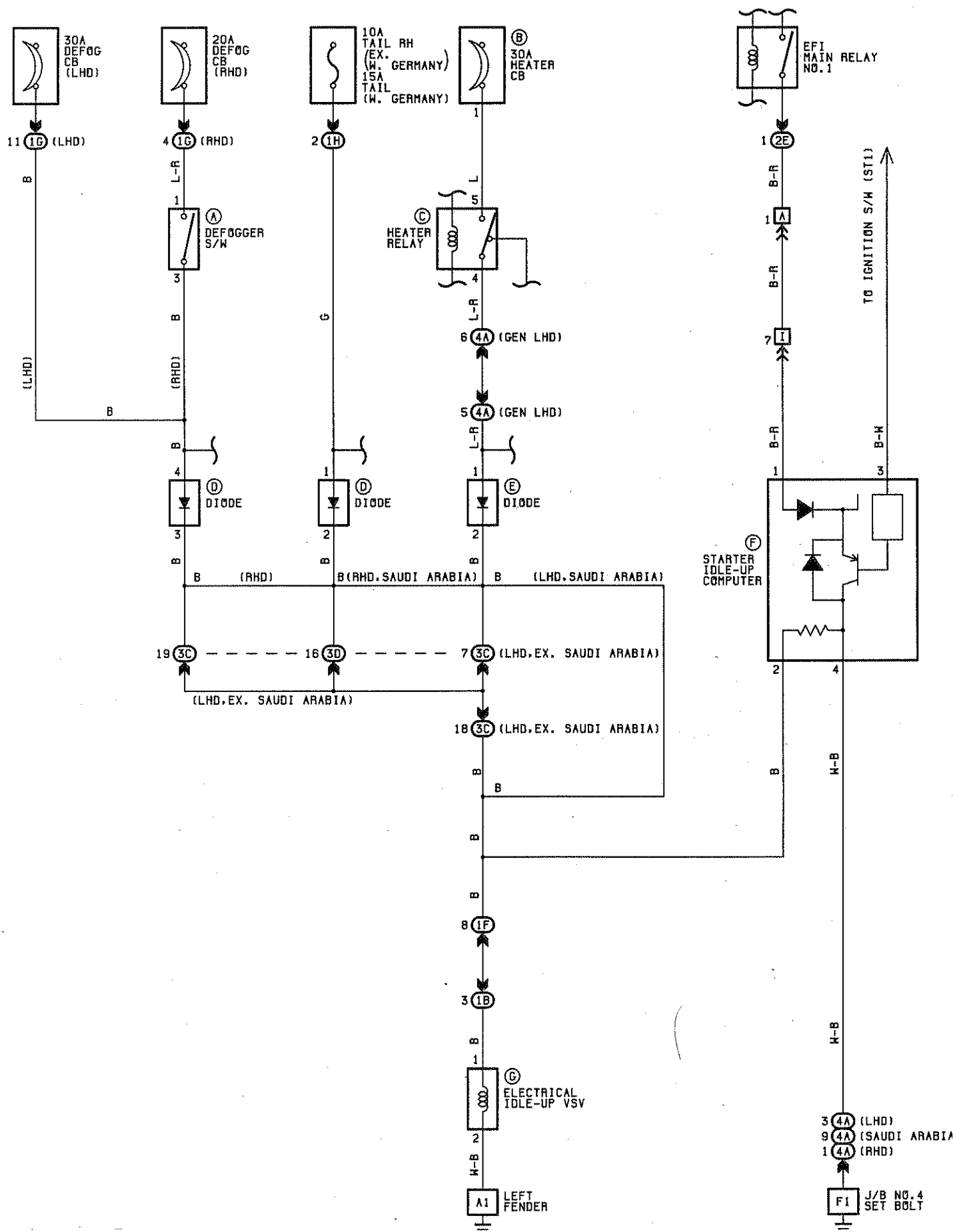
(D) BLACK



(S)



7 IDLE-UP (EFI)



Ⓕ STARTER IDLE-UP COMPUTER

4-GROUND: ALWAYS CONTINUITY

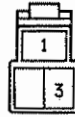
2-GROUND: 12VOLTS WITH STARTER CRANKING AND
8-12 SECONDS THEREAFTER

Ⓖ ELECTRICAL IDLE-UP VSV

1-2 : APPROX. 54Ω

1-GROUND: 12VOLTS WITH TAILLIGHTS OR
HEADLIGHTS ON OR BLOWER MOTOR ON
OR REAR WINDOW DEFOGGER ON OR STARTER
CRANKING AND 8-12 SECONDS THEREAFTER

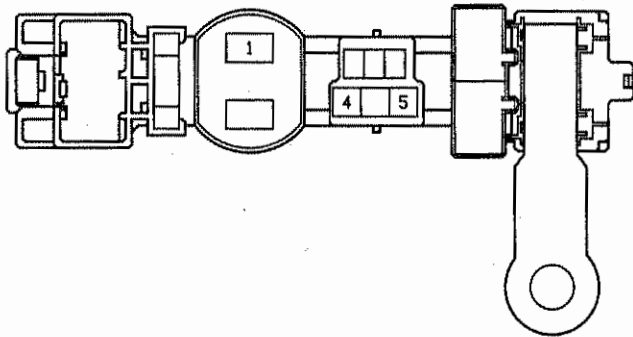
(RHD) Ⓐ



Ⓑ

Ⓒ

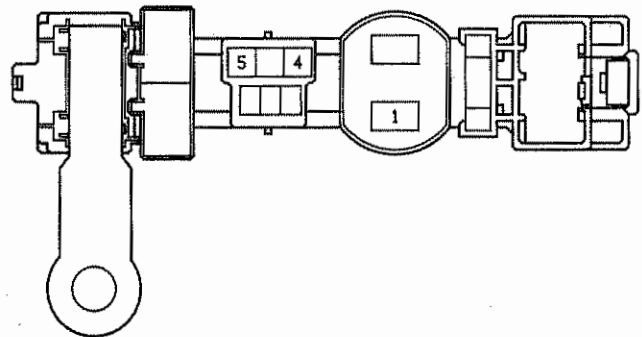
J/B NO.4 (LHD)



Ⓒ

Ⓑ

J/B NO.4 (RHD)



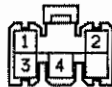
Ⓓ



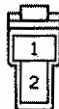
Ⓔ



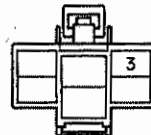
Ⓕ



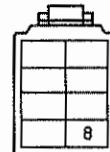
Ⓖ GREEN



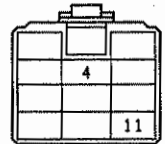
ⒾⒹ BLACK



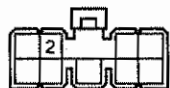
ⒾⒻ ORANGE



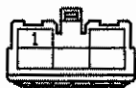
ⒾⒼ



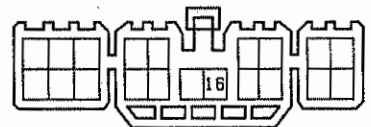
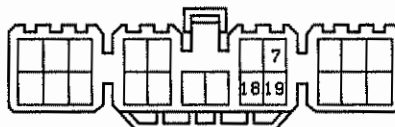
ⒾⒻ



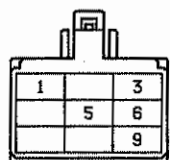
ⒾⒺ BLACK (LHD, EX. SAUDI ARABIA) ⒾⒸ



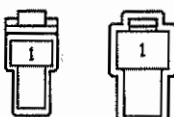
(LHD, EX. SAUDI ARABIA) ⒾⒹ



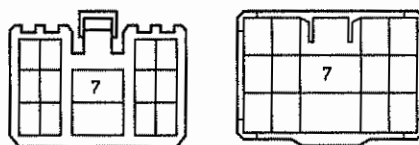
ⒾⒶ



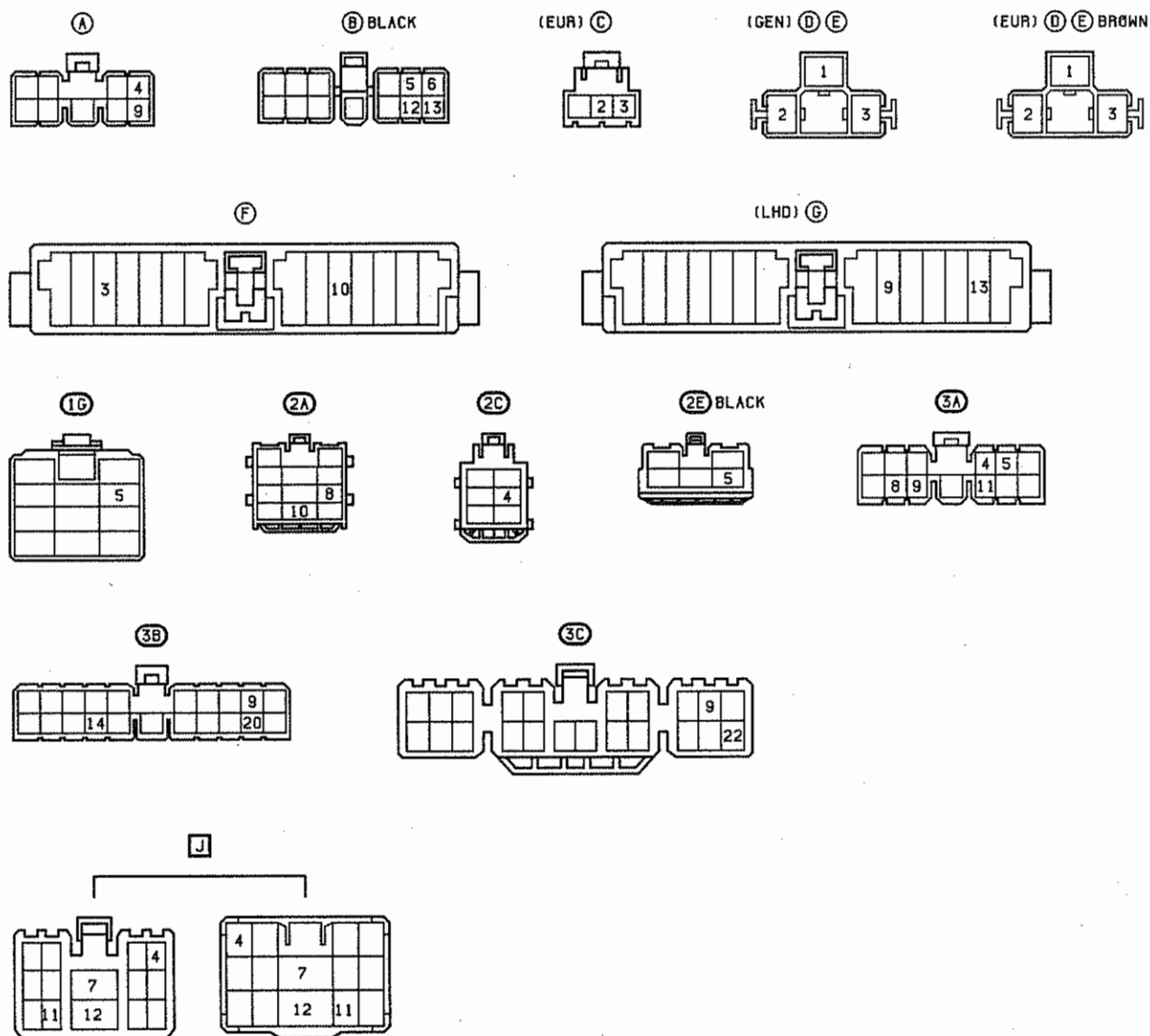
ⒾⒶ BLACK



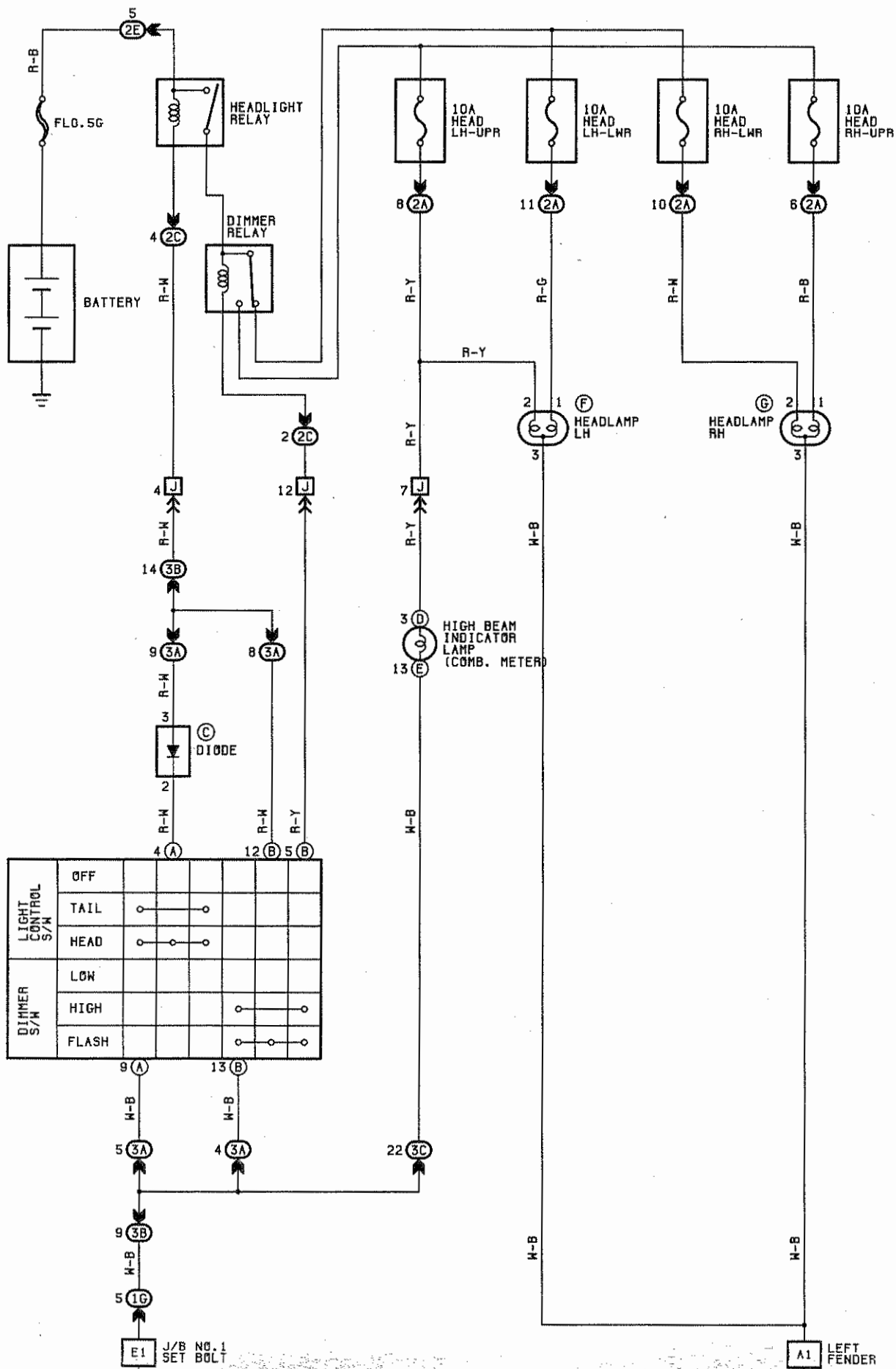
ⒾⒶ YELLOW







8-2 HEADLIGHTS (WEST GERMANY)

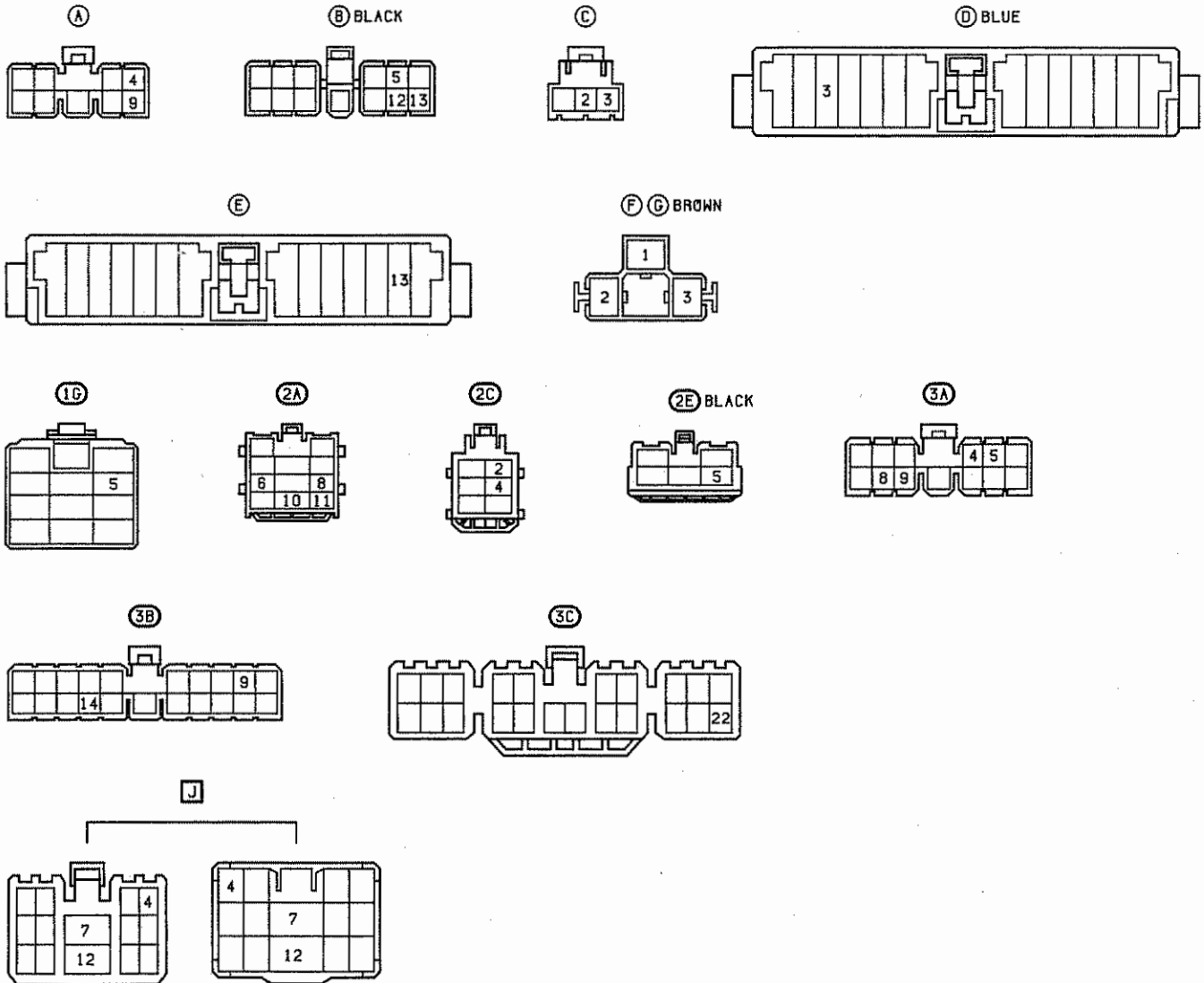


HEADLIGHT RELAY

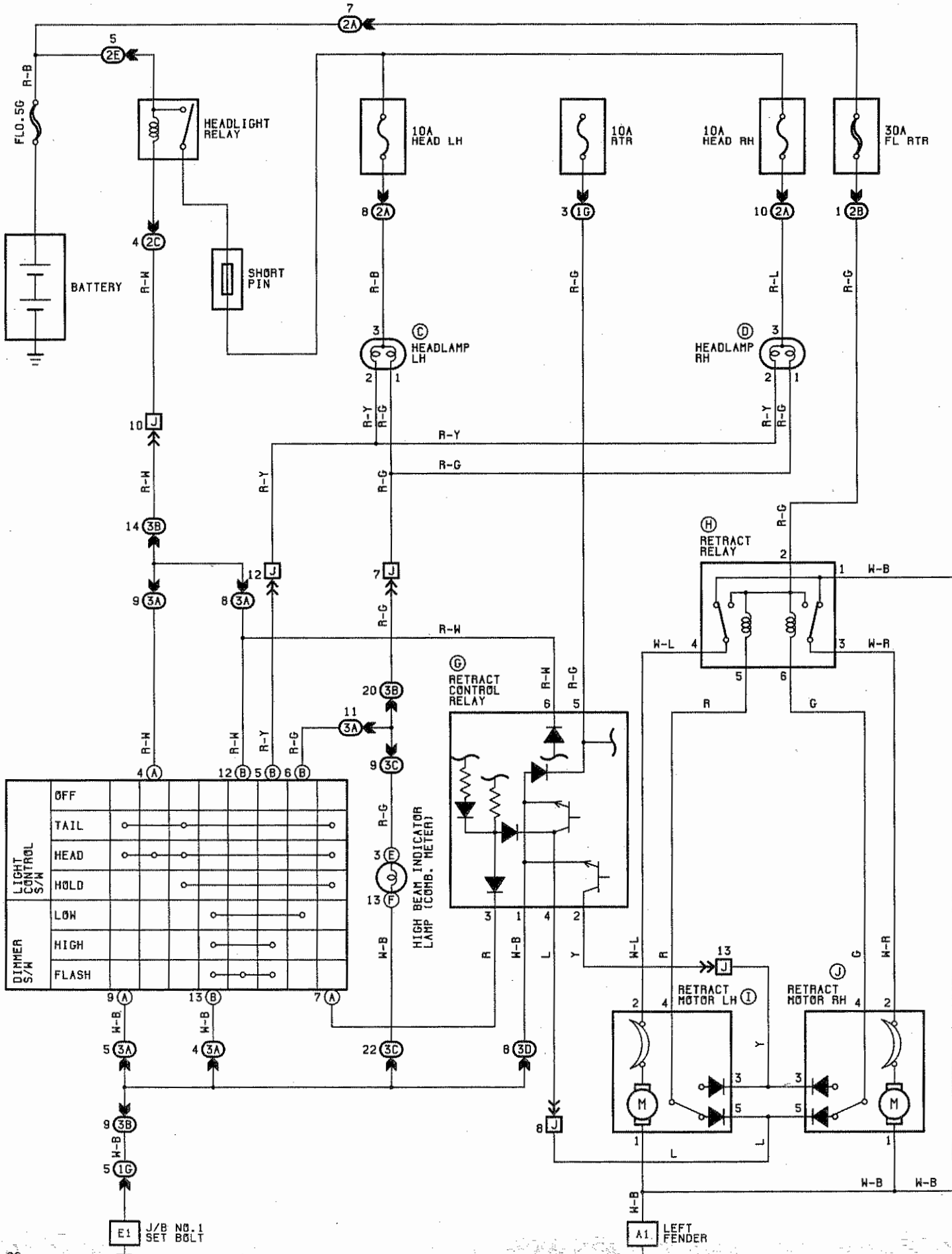
CLOSED WITH LIGHT CONTROL S/W AT HEAD POSITION OR
DIMMER S/W AT FLASH POSITION

DIMMER RELAY

CHANGED FROM HEAD (LWR) TO HEAD (UPR) WITH
DIMMER S/W AT FLASH POSITION OR HEADLIGHT RELAY ON
AND DIMMER S/W AT HIGH POSITION



8-3 HEADLIGHTS (SAUDI ARABIA)



HEADLIGHT RELAY

CLOSED WITH LIGHT CONTROL S/W AT HEAD POSITION
OR DIMMER S/W AT FLASH POSITION

① ③ RETRACT MOTOR

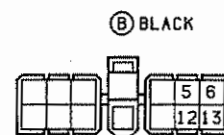
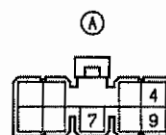
- 4-5 : CLOSED UNLESS RETRACT MOTOR AT UP POSITION
(S/W FOR RETRACT RELAY)
4-3 : CLOSED UNLESS RETRACT MOTOR AT DOWN POSITION
(S/W FOR RETRACT RELAY)
2-GROUND: 12 VOLTS WITH RETRACT RELAY ON

④ RETRACT RELAY

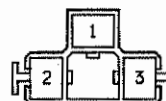
- 2-4,2-3: CLOSED WITH LIGHT CONTROL S/W AT HEAD POSITION
UNTIL RETRACT MOTOR AT UP POSITION
2-4,2-3: CLOSED WITH LIGHT CONTROL S/W AT OFF POSITION
UNTIL RETRACT MOTOR AT DOWN POSITION
2-4,2-3: CLOSED WITH DIMMER S/W AT FLASH POSITION
UNTIL RETRACT MOTOR AT UP POSITION
2-4,2-3: CLOSED UNLESS DIMMER S/W AT FLASH POSITION
UNTIL RETRACT MOTOR AT DOWN POSITION

⑤ RETRACT CONTROL RELAY

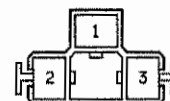
- 5-GROUND: ALWAYS 12 VOLTS
1-GROUND: ALWAYS CONTINUITY
1-4 : CONTINUITY WITH LIGHT CONTROL S/W AT HEAD POSITION
OR DIMMER S/W AT FLASH POSITION
1-4 : CONTINUITY FOR 2-4 SECONDS AFTER S/W AT OFF POSITION
1-2 : CONTINUITY FOR 2-4 SECONDS WITH LIGHT CONTROL S/W AT OFF POSITION
FROM TAIL, HEAD OR HOLD POSITION
1-2 : CONTINUITY BETWEEN TERMINALS
FOR 6-14 SECONDS 2-4 SECONDS
AFTER LIGHT CONTROL S/W OFF



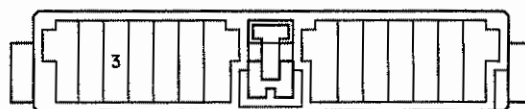
(EFI) ③ ④ BROWN



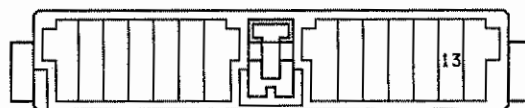
(EX. EFI) ③ ④



⑤ BLUE



⑥



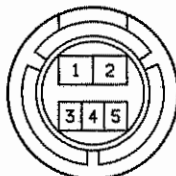
⑦ BLUE



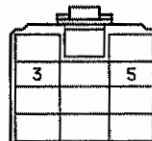
⑧



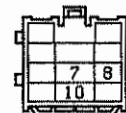
① ③ BLACK



⑩



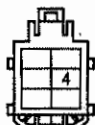
②A



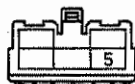
②B ORANGE



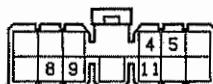
②C



②E BLACK



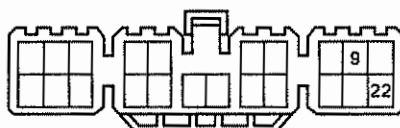
③A



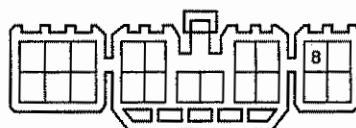
③B



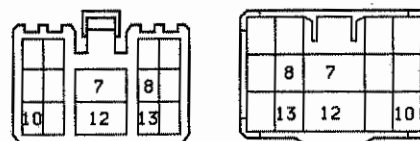
③C



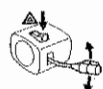
③D



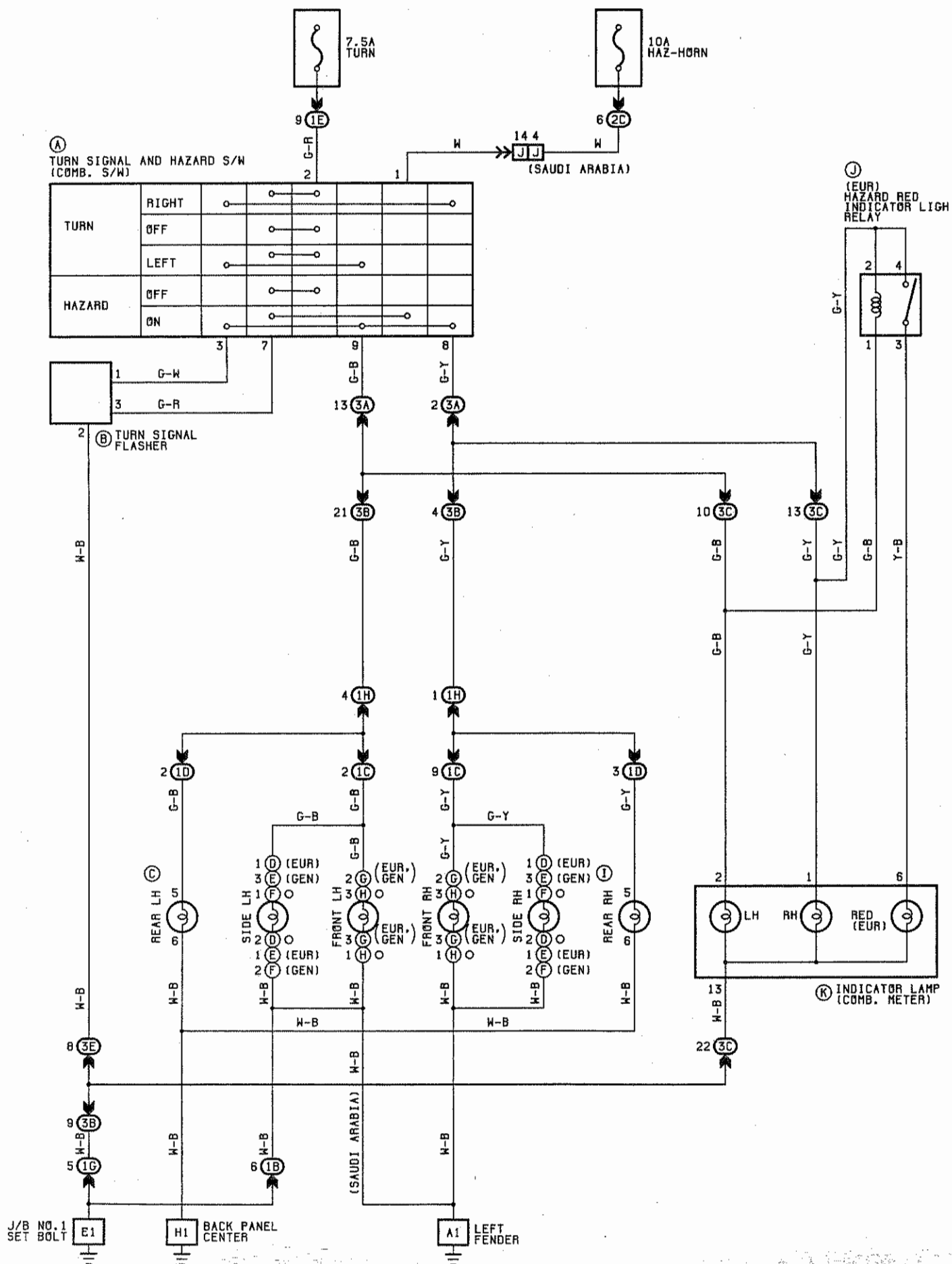
④



9-1



TURN SIGNAL AND HAZARD WARNING LIGHTS (LHC)



Ⓐ TURN SIGNAL AND HAZARD S/W

1-GROUND: ALWAYS 12 VOLTS

2-GROUND: 12 VOLTS WITH IGNITION S/W ON

Ⓑ TURN SIGNAL FLASHER

3-GROUND: 12 VOLTS WITH IGNITION S/W ON OR HAZARD S/W ON

1-GROUND: CHANGES FROM 12 TO 0 VOLTS WITH IGNITION S/W ON AND TURN SIGNAL S/W LEFT OR RIGHT, OR WITH HAZARD S/W ON

Ⓙ HAZARD RED INDICATOR LIGHT RELAY

2-GROUND, 1-GROUND: CHANGES 12 TO 0 VOLTS AT SAME TIMING WITH HAZARD S/W ON

(I.E. 2-1: 0 VOLT, 3-4: CLOSED WITH HAZARD S/W ON)

3-GROUND: CHANGES 12 TO 0 VOLTS WITH HAZARD S/W ON

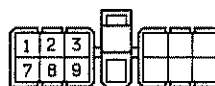
2-GROUND, 4-GROUND: CHANGES 12 TO 0 VOLTS WITH IGNITION S/W ON AND TURN SIGNAL S/W RIGHT

(I.E. 3-4: OPEN WHEN 12 VOLTS AT TERMINAL 4)

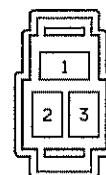
1-GROUND: CHANGES 12 TO 0 VOLTS WITH IGNITION S/W ON AND TURN SIGNAL S/W LEFT

(I.E. 3-4: OPEN WHEN SOME VOLTS AT TERMINAL 4)

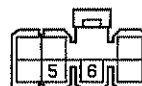
Ⓐ BLACK



Ⓑ



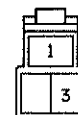
Ⓒ Ⓘ



Ⓓ



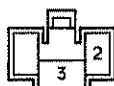
Ⓔ



Ⓕ



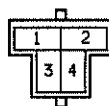
(EUR. GEN) Ⓖ



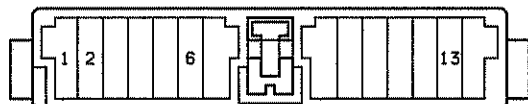
(SAUDI ARABIA) Ⓗ



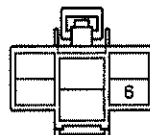
(EUR) ⓵



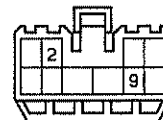
Ⓚ



ⓁⓈ BLACK



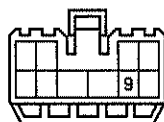
ⓁⓉ



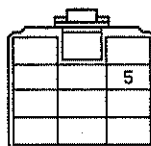
ⓁⓊ



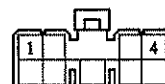
ⓁⓊ



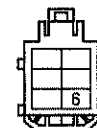
ⓁⓋ



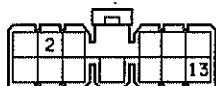
ⓁⓌ



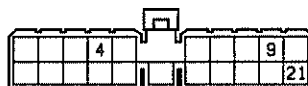
ⓁⓍ



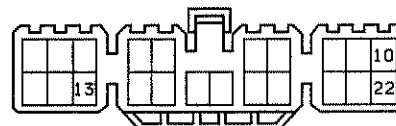
ⓁⓎ



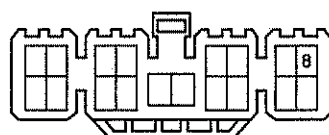
ⓁⓏ



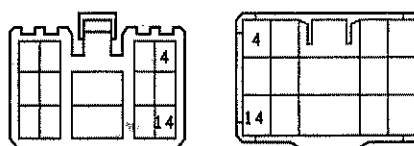
Ⓛⓞ



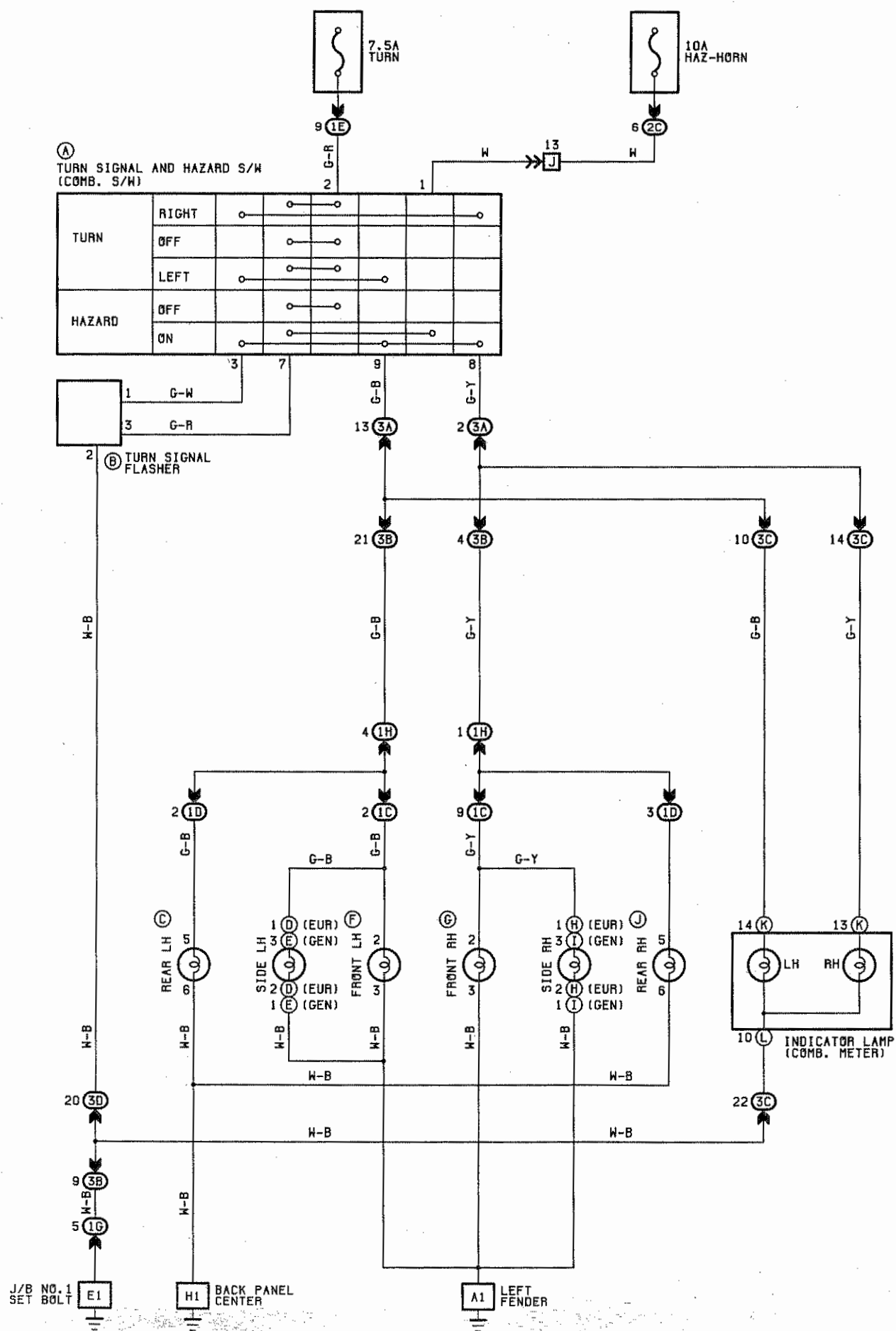
Ⓛⓟ



Ⓛ



9-2 TURN SIGNAL AND HAZARD WARNING LIGHTS (RHD)



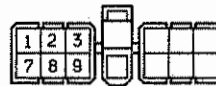
(A) TURN SIGNAL AND HAZARD S/W

- 1-GROUND: ALWAYS 12 VOLTS
- 2-GROUND: 12 VOLTS WITH IGNITION S/W ON

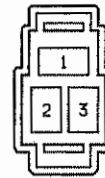
(B) TURN SIGNAL FLASHER

- 3-GROUND: 12 VOLTS WITH IGNITION S/W ON OR HAZARD S/W ON
- 1-GROUND: CHANGES FROM 12 VOLTS TO 0 VOLT WITH IGNITION S/W ON AND TURN SIGNAL S/W LEFT OR RIGHT, OR WITH HAZARD S/W ON

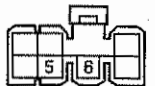
(A) BLACK



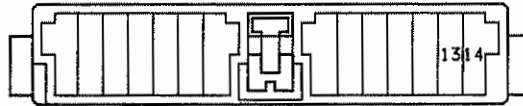
(B)



(C) (J)



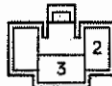
(K)



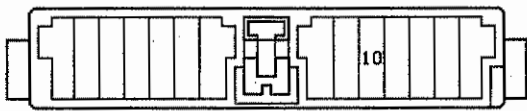
(GEN) (E) (I)



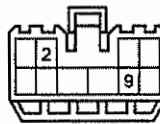
(F) (G)



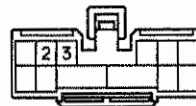
(L) BLUE



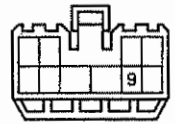
(1C)



(1D)



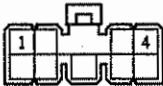
(1E)



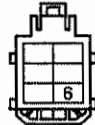
(1G)



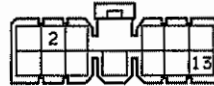
(1H)



(2C)



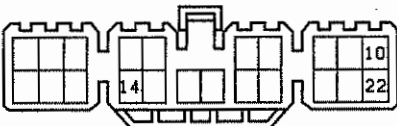
(3A)



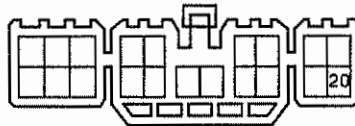
(3B)



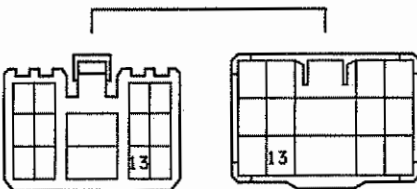
(3C)



(3D)



(J)

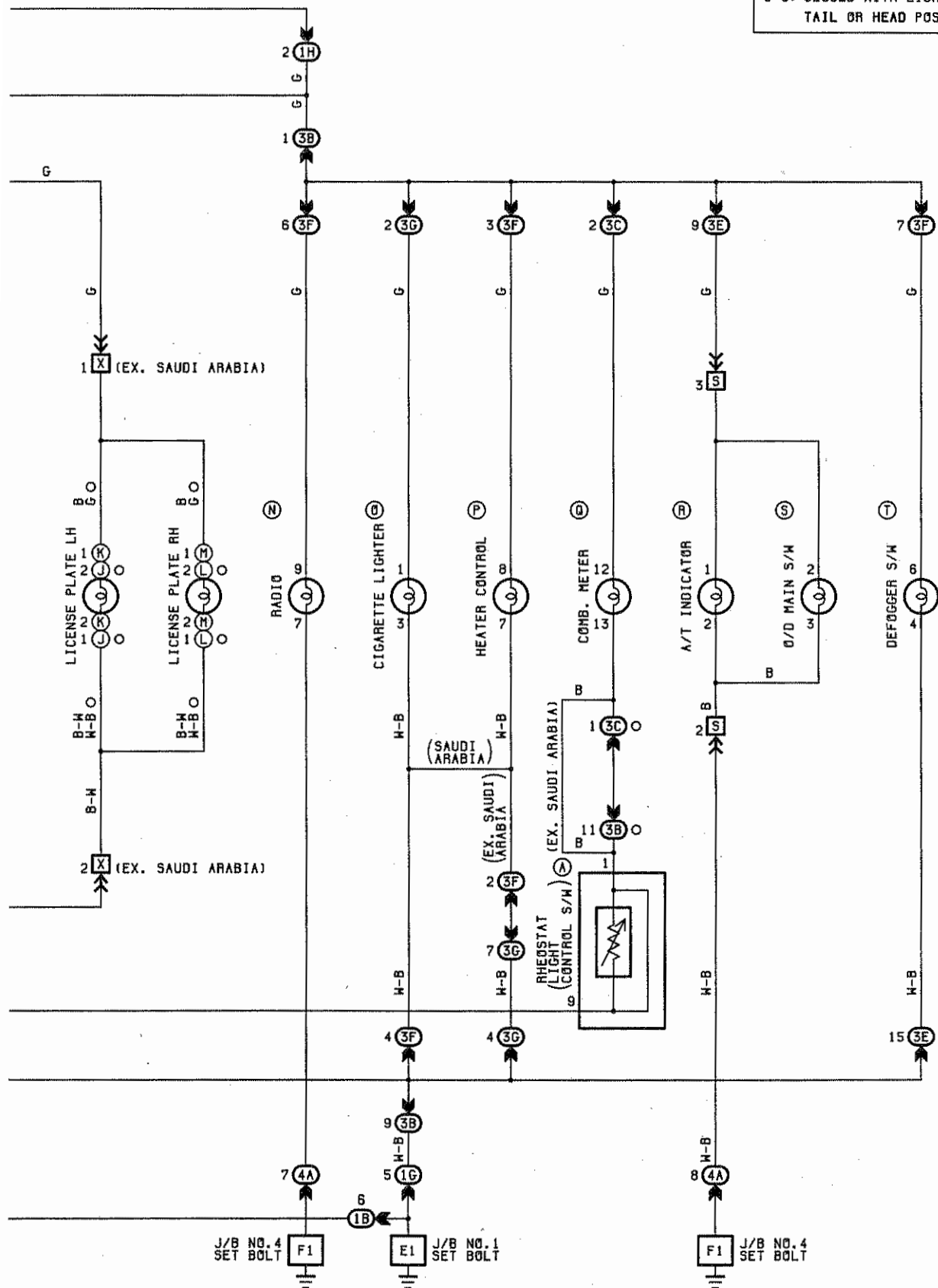


TAILLIGHT RELAY

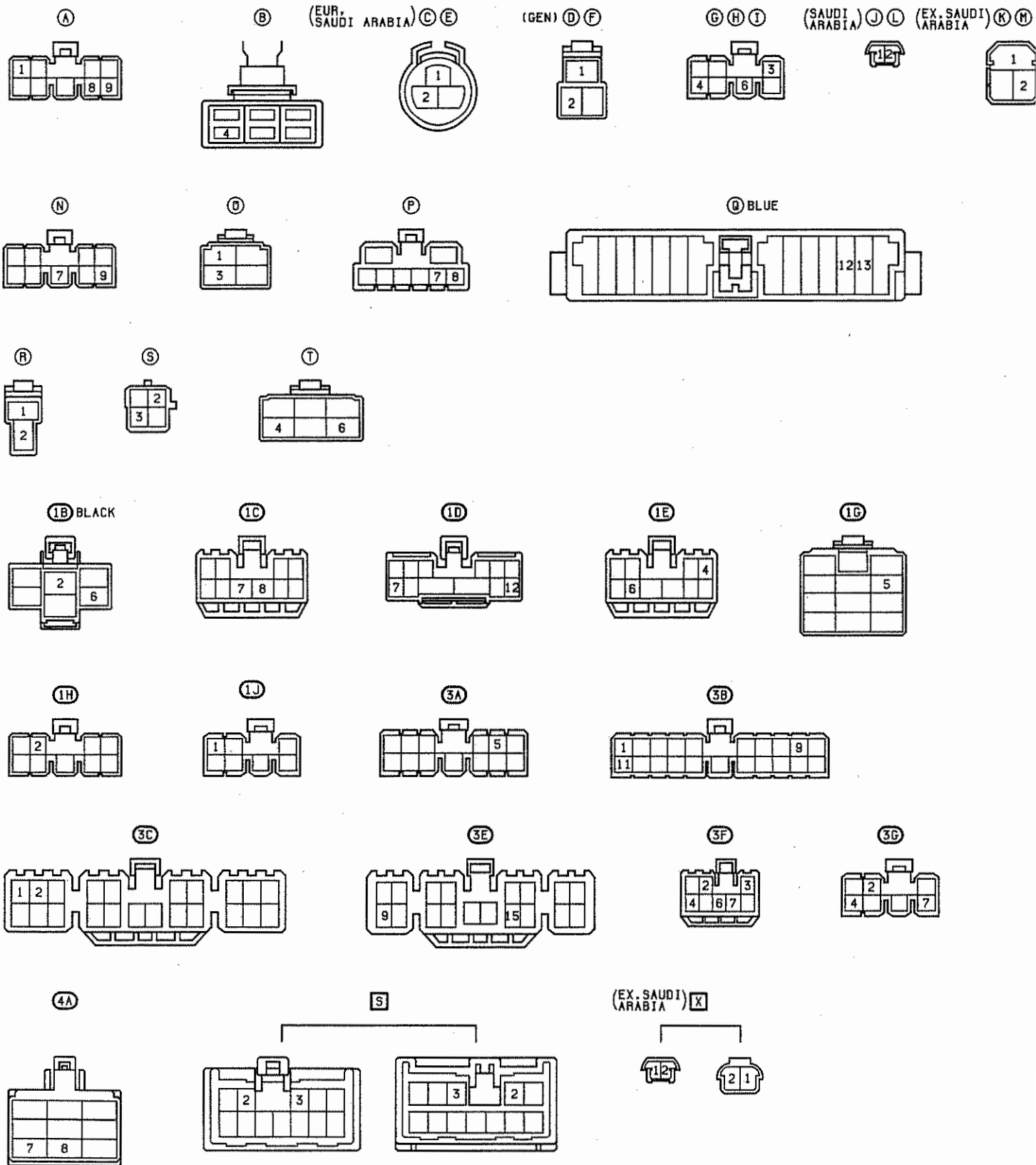
CLOSED WITH LIGHT CONTROL S/W AT TAIL OR HEAD POSITION

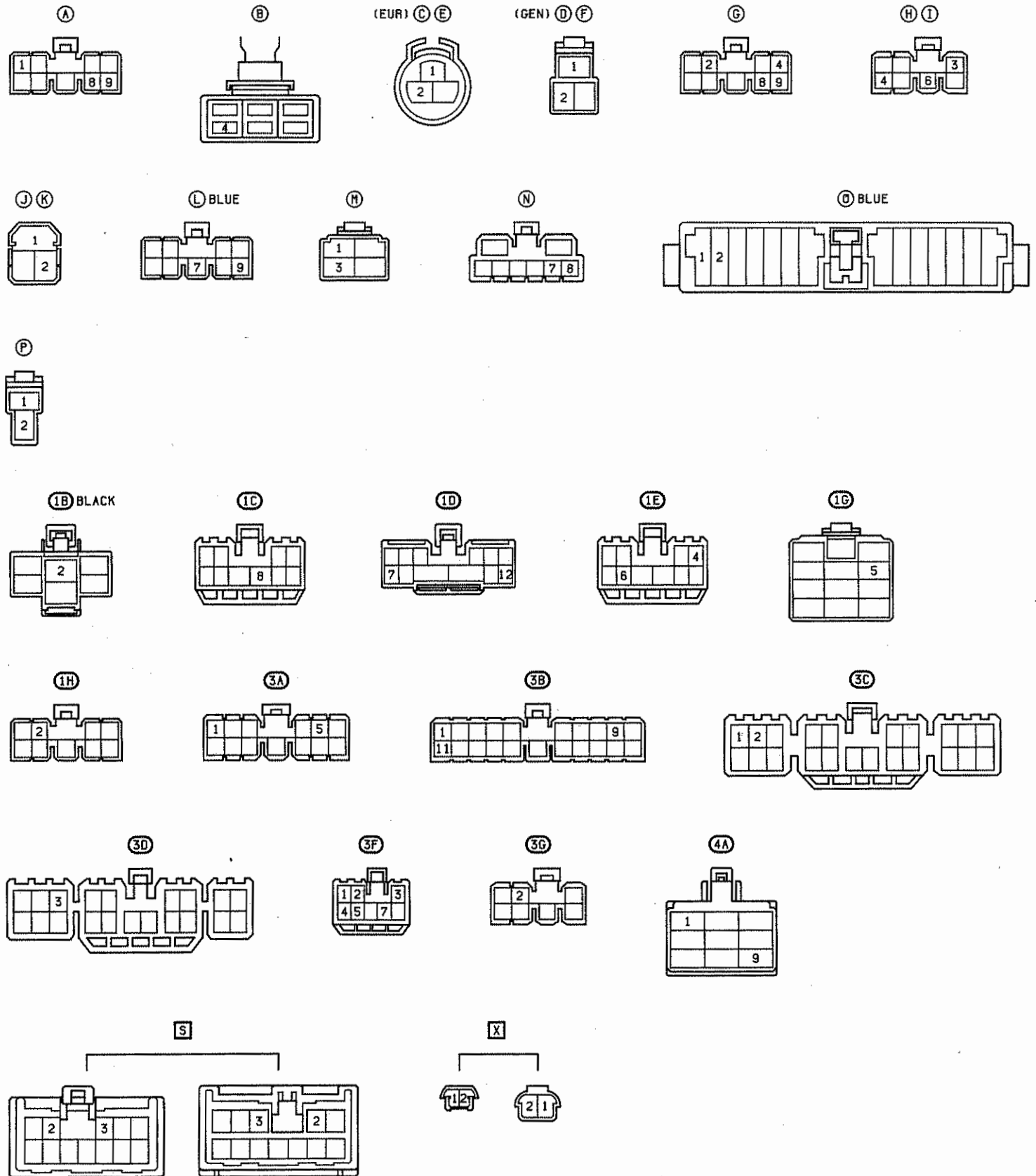
Ⓐ LIGHT CONTROL S/W

8-9: CLOSED WITH LIGHT CONTROL S/W AT TAIL OR HEAD POSITION

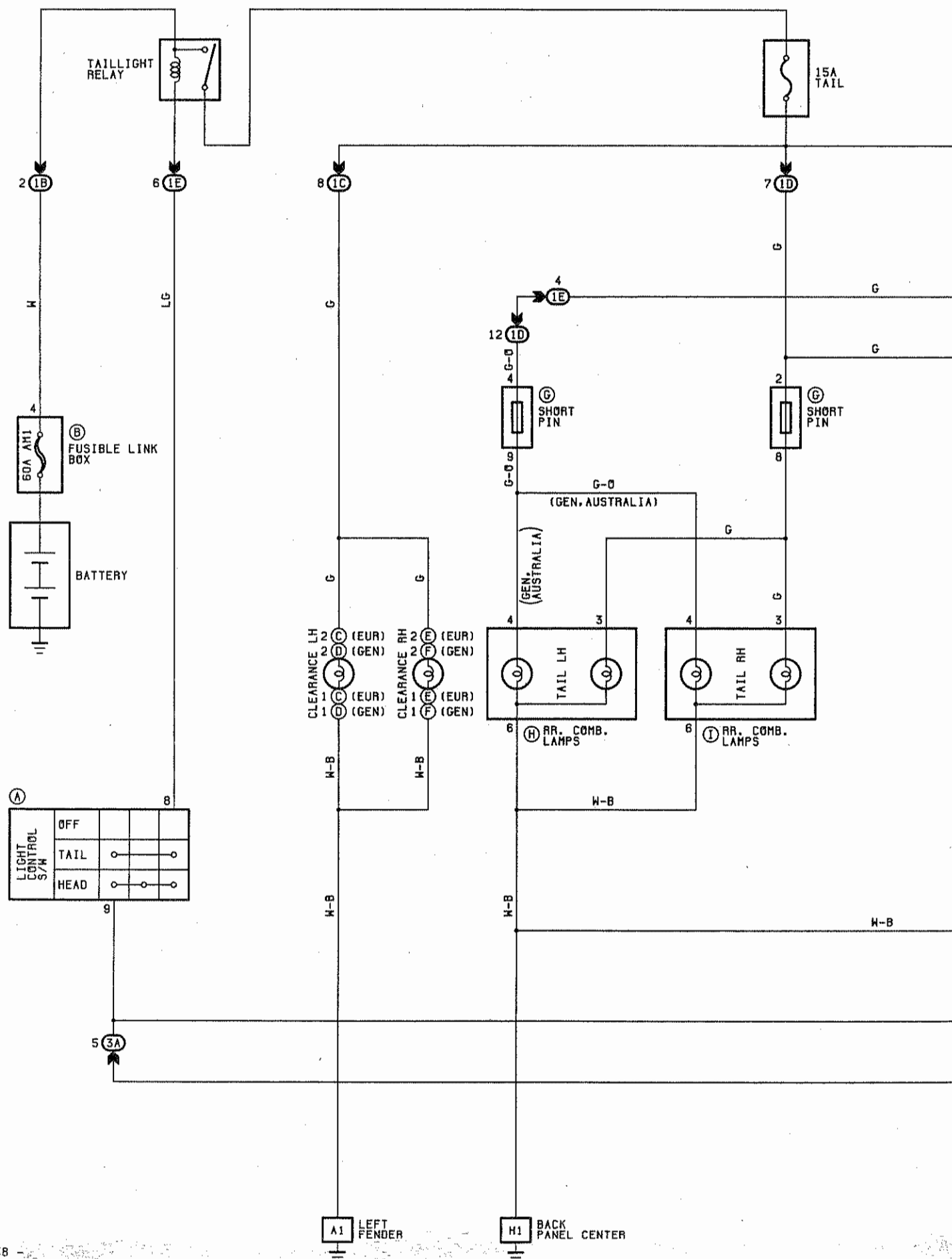


10-1 TAILLIGHTS AND ILLUMINATION (LHD)





10-2 TAILLIGHTS AND ILLUMINATION (RHD)

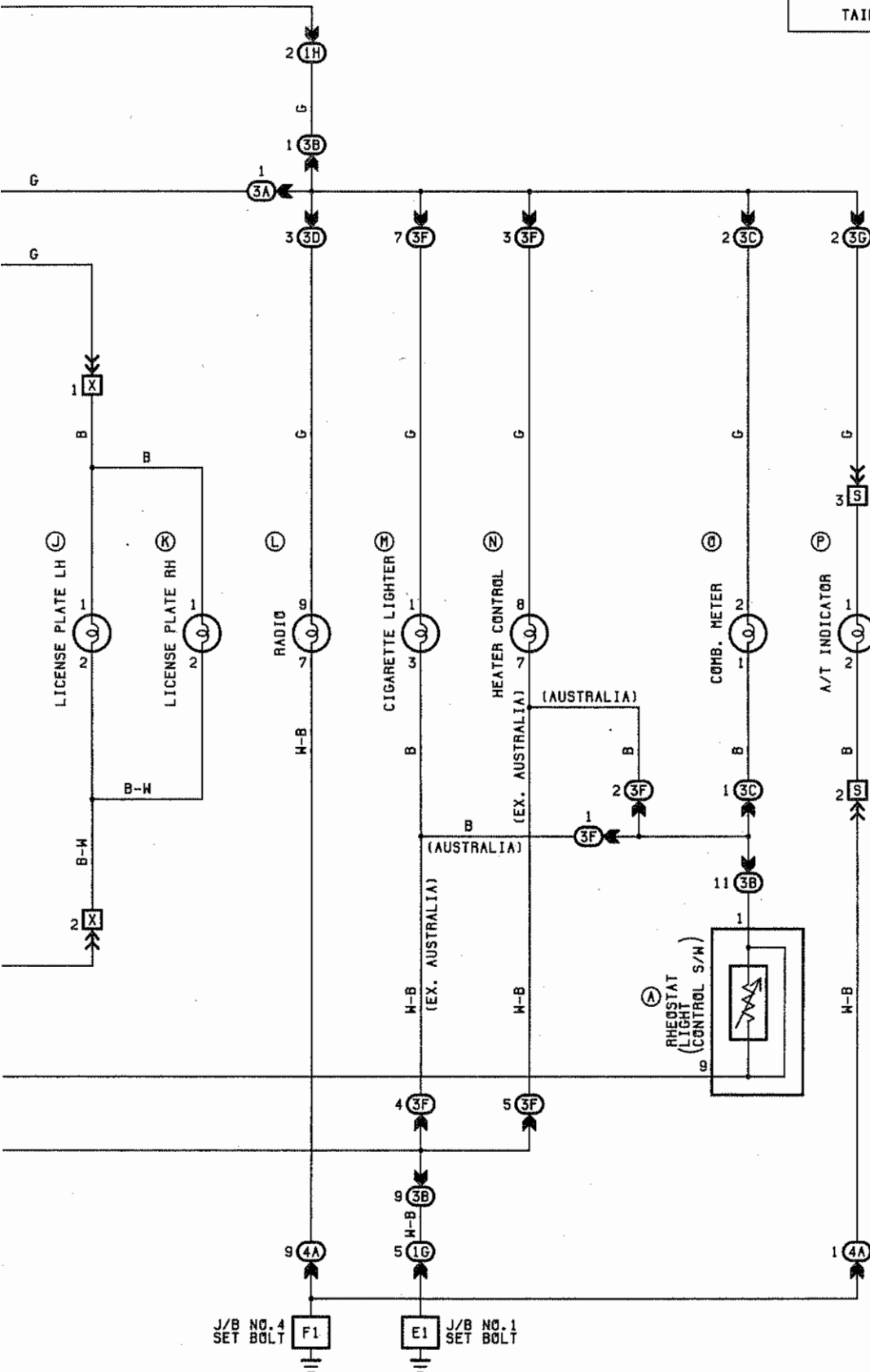


TAILLIGHT RELAY

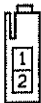
CLOSED WITH LIGHT CONTROL S/W AT TAIL OR HEAD POSITION

Ⓐ LIGHT CONTROL S/W

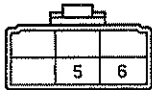
8-9: CLOSED WITH LIGHT CONTROL S/W AT TAIL OR HEAD POSITION



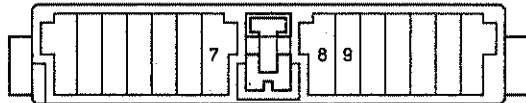
(A)



(B)



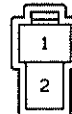
(C)



(LHD) (D)



(RHD) (E)



(3DOOR) (F)



(G)



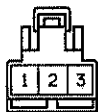
(H)



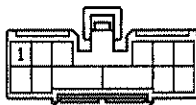
(I)



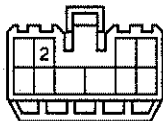
(1A) BLUE



(1D)



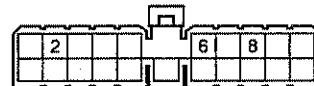
(1E)



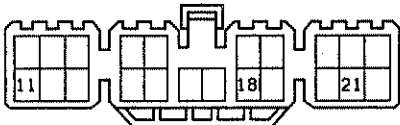
(1J)



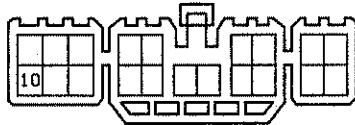
(3B)



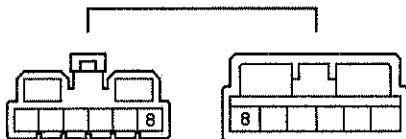
(3C)



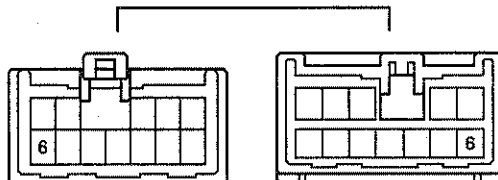
(RHD) (3D)



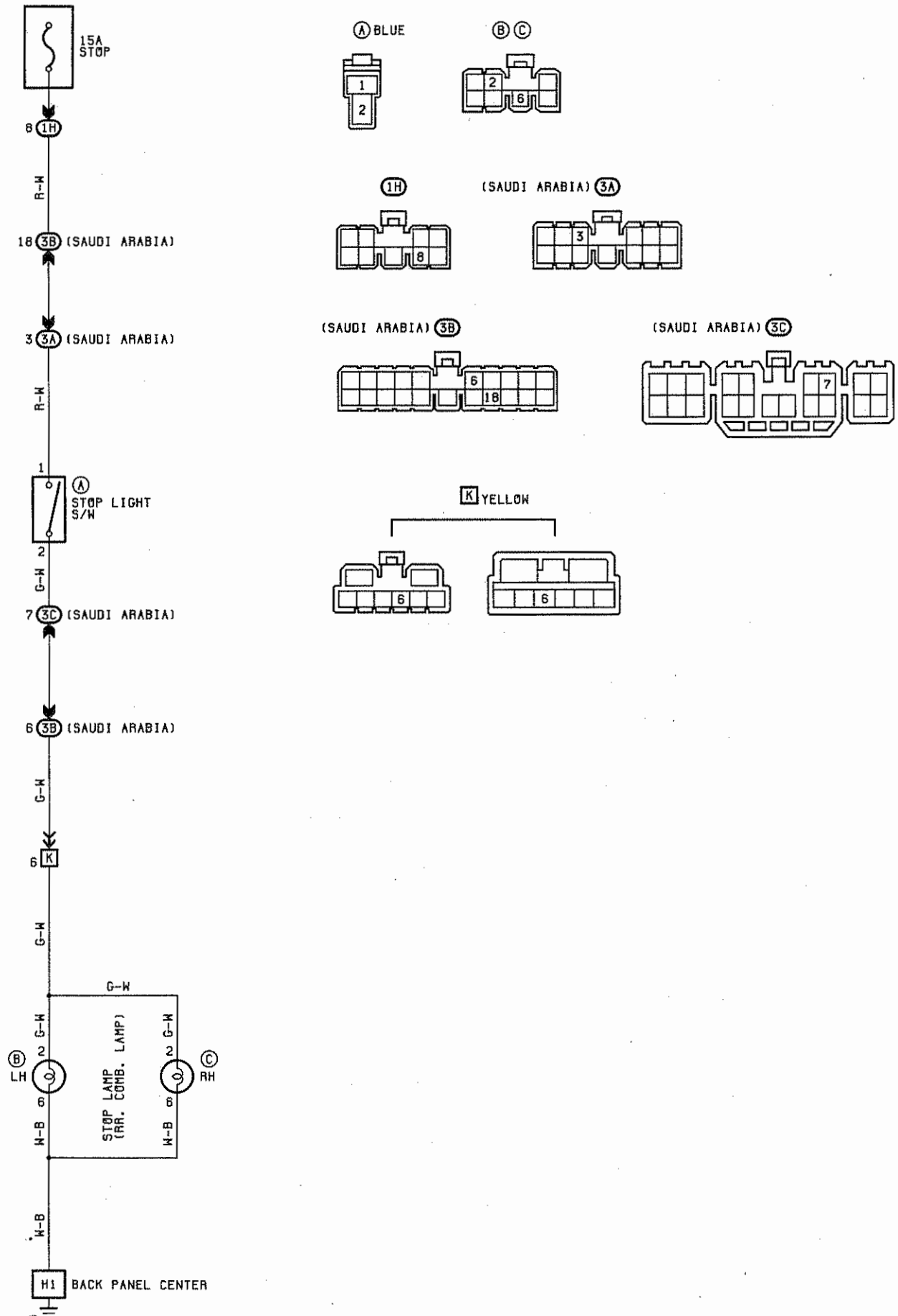
(K) YELLOW

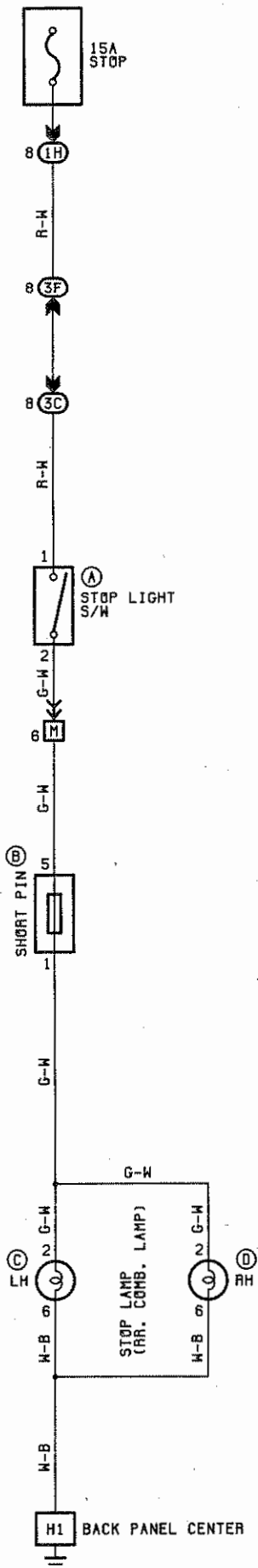
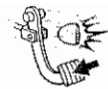


(RHD) (S)



12-1 STOP LIGHTS (LHD)

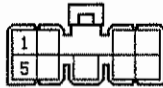




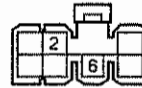
(A) BLUE



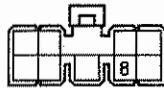
(B)



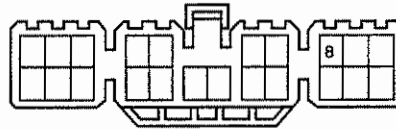
(C) (D)



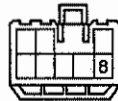
(1H)



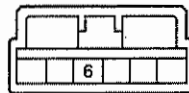
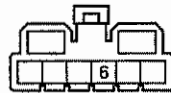
(3C)



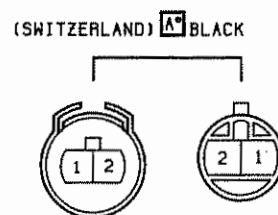
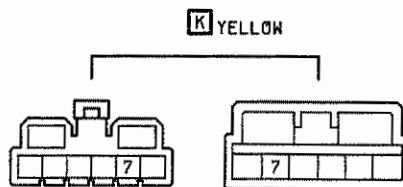
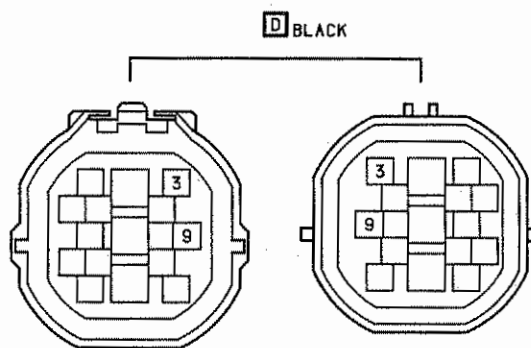
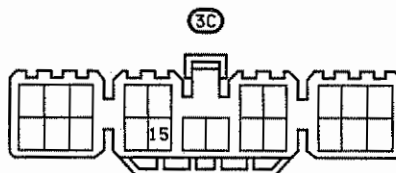
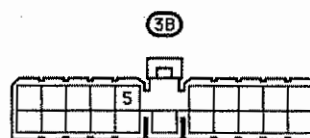
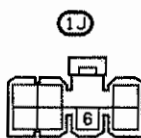
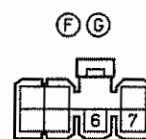
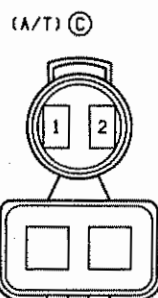
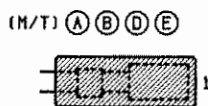
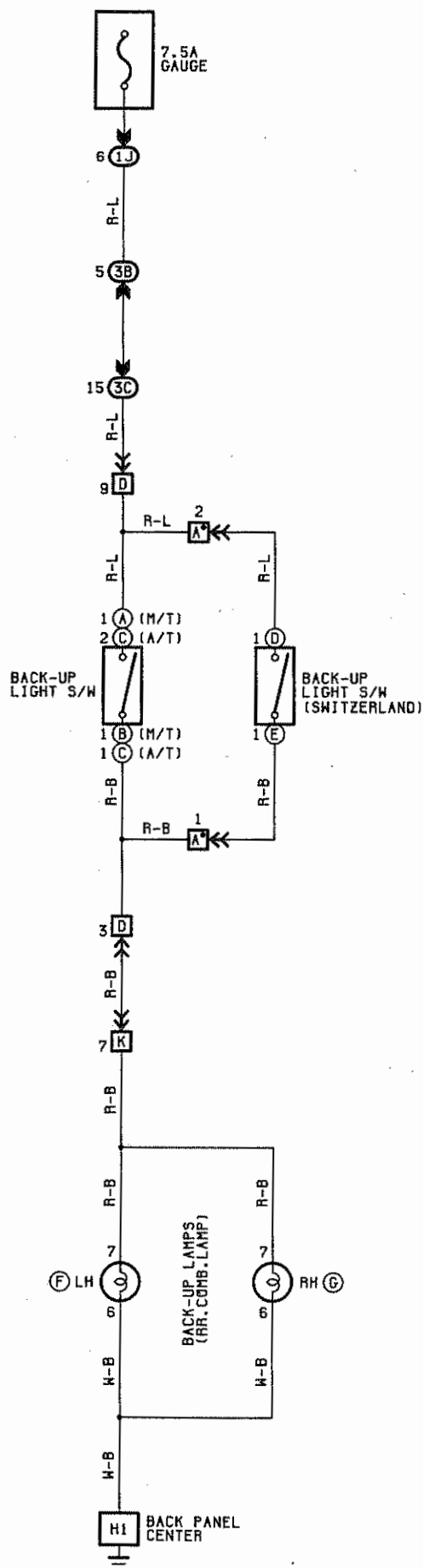
(3F)

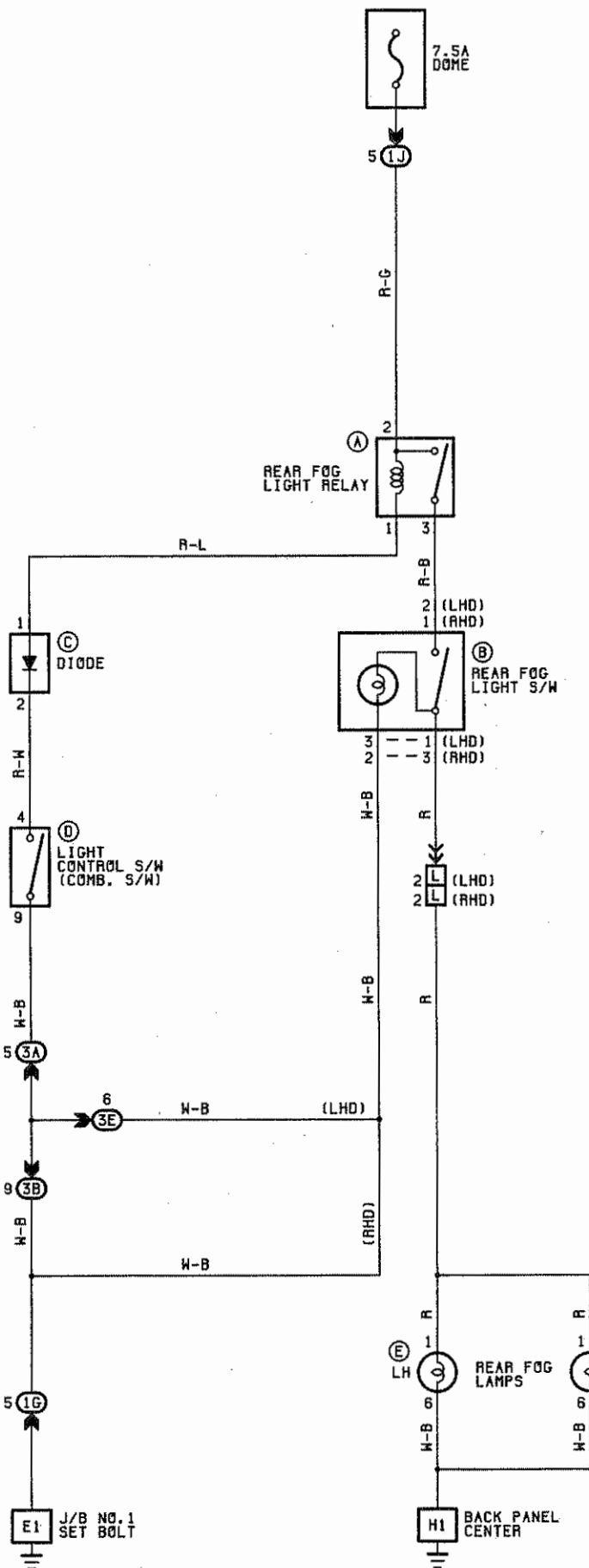


(M) YELLOW



13 BACK-UP LIGHTS



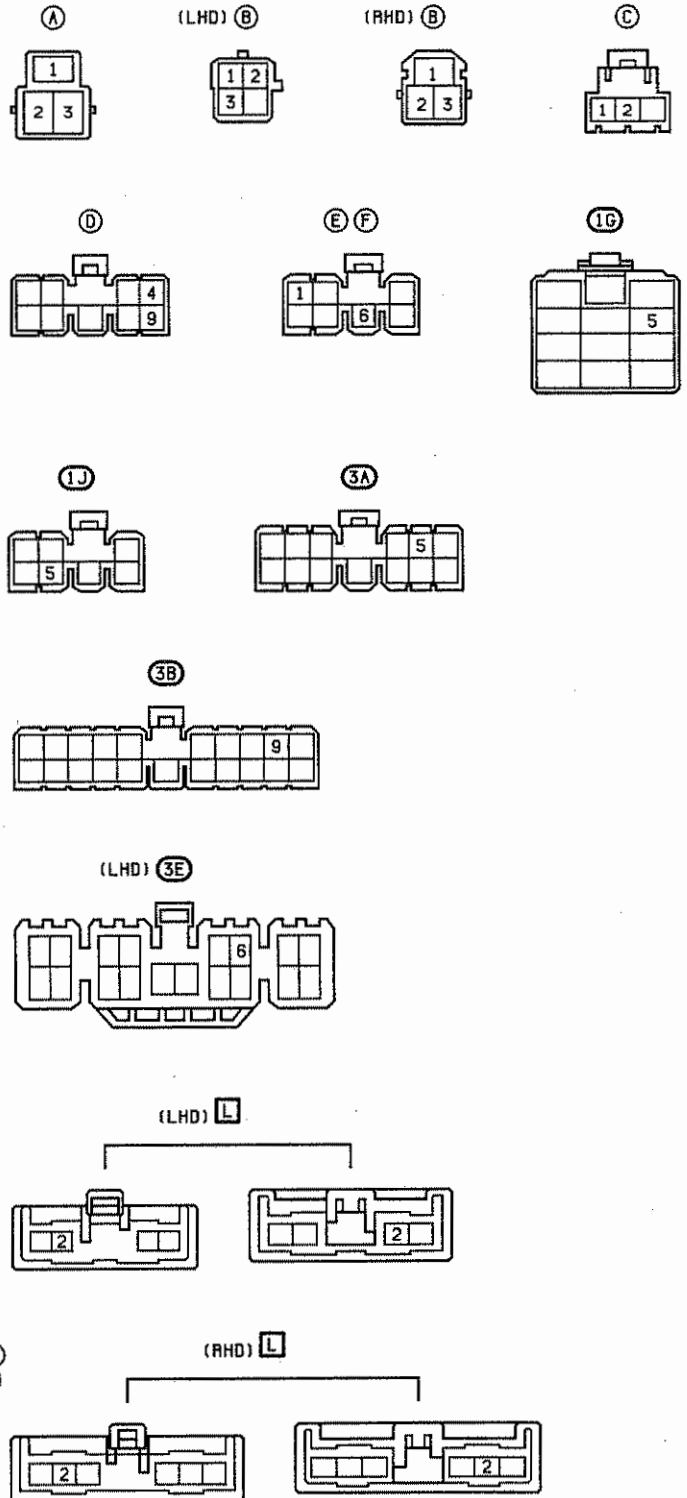


(A) REAR FOG LIGHT RELAY

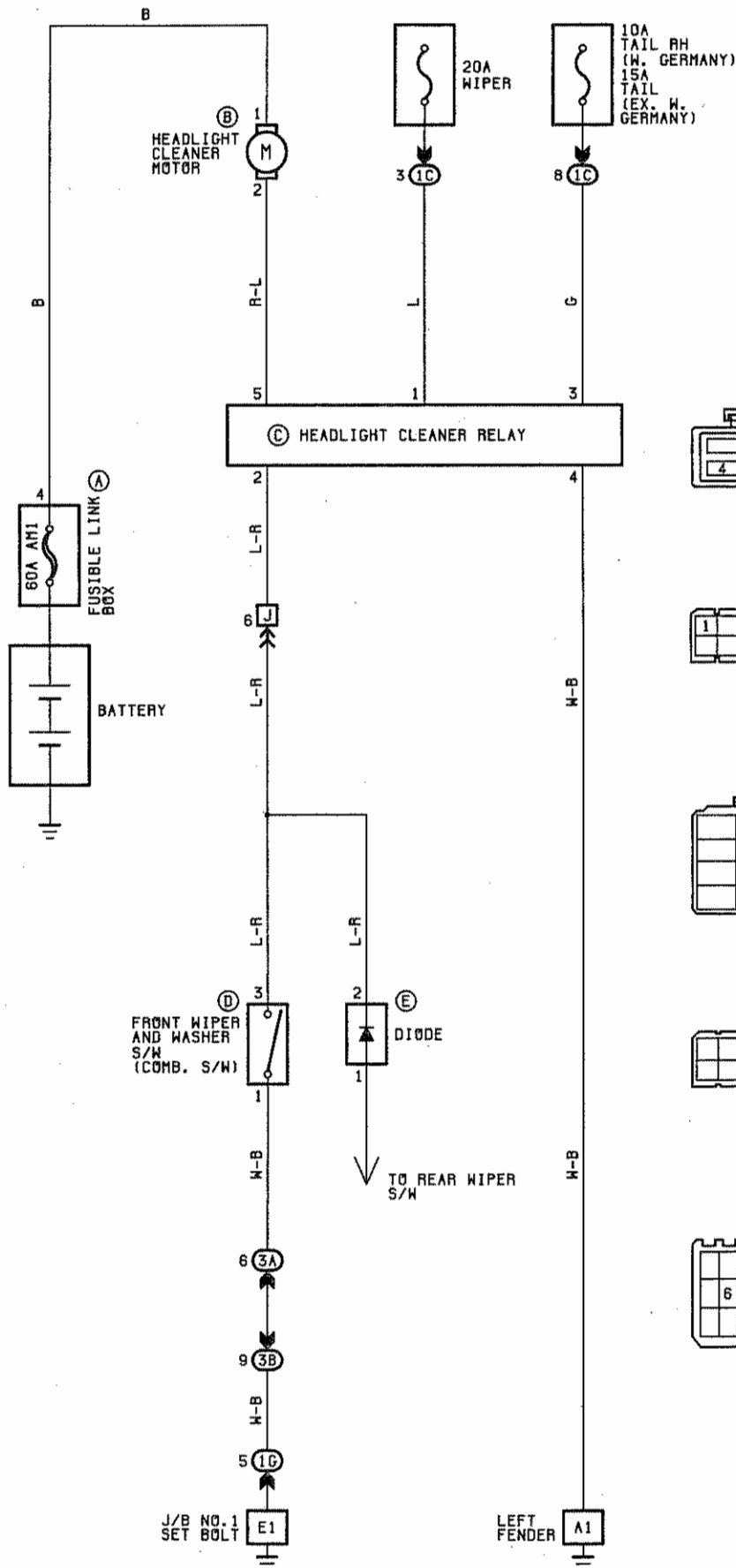
2-3: CLOSED WITH LIGHT CONTROL S/W AT HEAD POSITION

(D) LIGHT CONTROL S/W

4-9: CLOSED WITH LIGHT CONTROL S/W AT HEAD POSITION



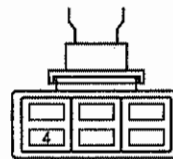
15 HEADLIGHT CLEANER (EUROPE LHD)



(C) HEADLIGHT CLEANER RELAY

- 1-GROUND: 12 VOLTS WITH IGNITION S/W ON
- 3-GROUND: 12 VOLTS WITH LIGHT CONTROL S/W AT TAIL OR HEAD POSITION
- 2-GROUND: CONTINUITY WITH WASHER S/W ON
- 5-GROUND: CONTINUITY FOR 0.5 SECONDS WITH IGNITION S/W ON, LIGHT CONTROL S/W AT TAIL OR HEAD POSITION AND WASHER S/W PUSHED TWICE

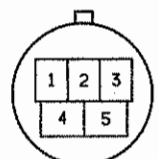
(A) BLACK



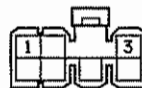
(B)



(C)



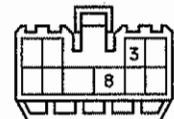
(D)



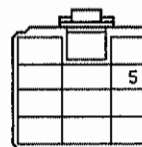
(E)



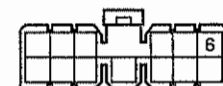
(1C)



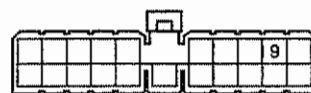
(1G)



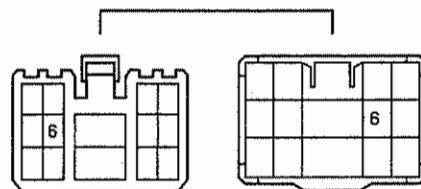
(3A)

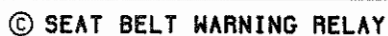


(3B)



(J)

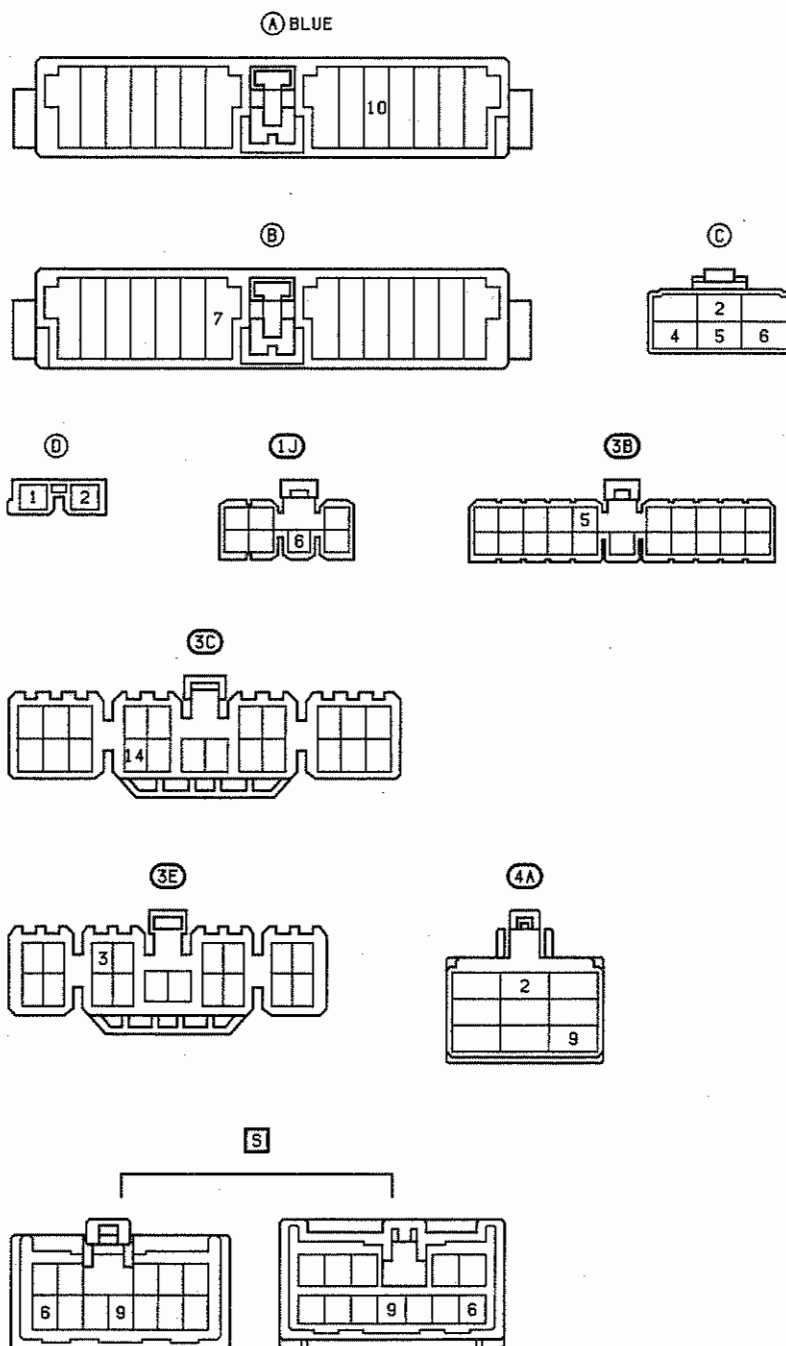




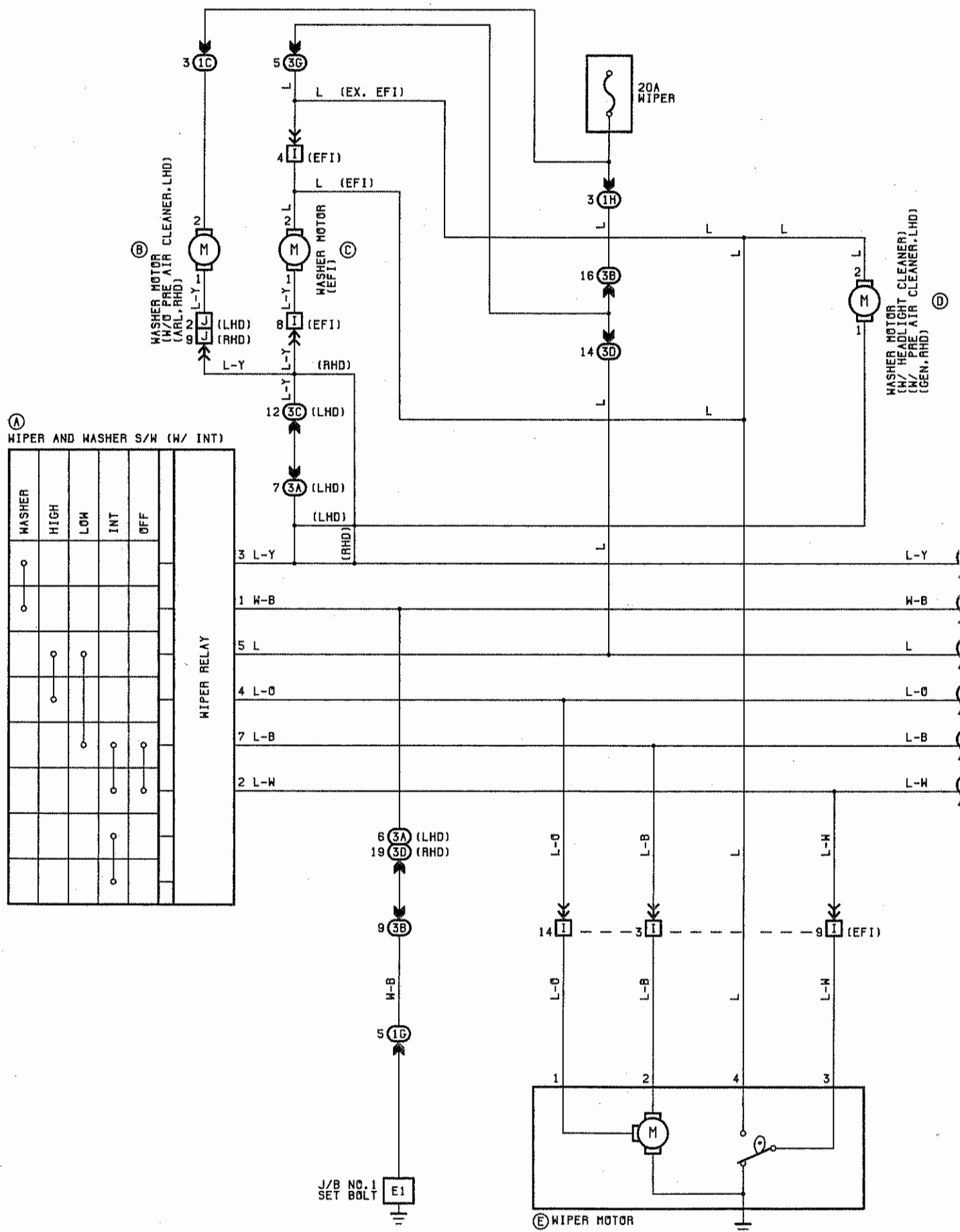
2-GROUND: 12VOLTS WITH IGNITION S/W AT IG POSITION
(POWER AND SIGNAL OF BELT WARNING BUZZER FOR 4-8 SECONDS)
5-GROUND: 0VOLT FOR 4-8 SECONDS WITH IGNITION S/W ON AND
12VOLTS THEREAFTER
6-GROUND: CONTINUITY UNLESS DRIVER'S LAP BELT IN USE
(SIGNAL OF BELT WARNING BUZZER)

① BUCKLE S/W

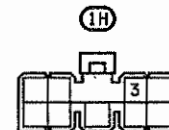
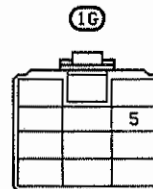
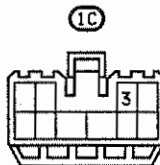
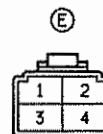
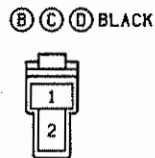
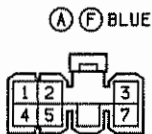
1-2: OPEN WITH DRIVER'S LAP BELT IN USE



17 FRONT WIPERS AND WASHER



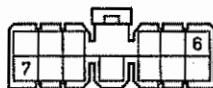
- A WIPER AND WASHER S/W (W/ INT)**
- 5-GROUND: 12 VOLTS WITH IGNITION S/W ON
 - 7-GROUND: 12 VOLTS EVERY 4 SECONDS INTERMITTENTLY WITH WIPER S/W AT INT POSITION
 - 2-GROUND: 12 VOLTS WITH IGNITION S/W ON UNLESS WIPER MOTOR AT STOP POSITION
 - 7-GROUND: 12 VOLTS WITH IGNITION S/W ON AND AFTER WIPER S/W OFF UNTIL WIPER MOTOR STOPS



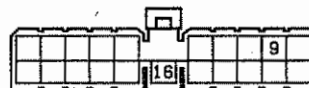
(F) WIPER AND WASHER S/W (W/O INT)

	OFF	LOW	HIGH	WASHER
L-Y 3	○			
W-B 1	○	○		
L 5		○	○	
L-G 4		○	○	
L-B 7				○
L-W 2				○

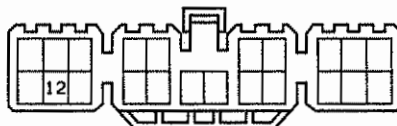
(LHD) (3A)



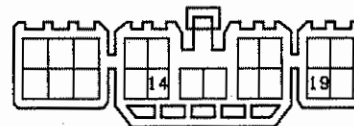
(3B)



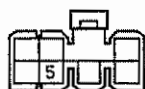
(LHD) (3C)



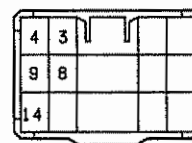
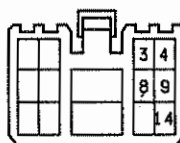
(3D)



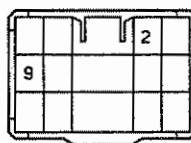
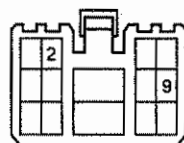
(3G)



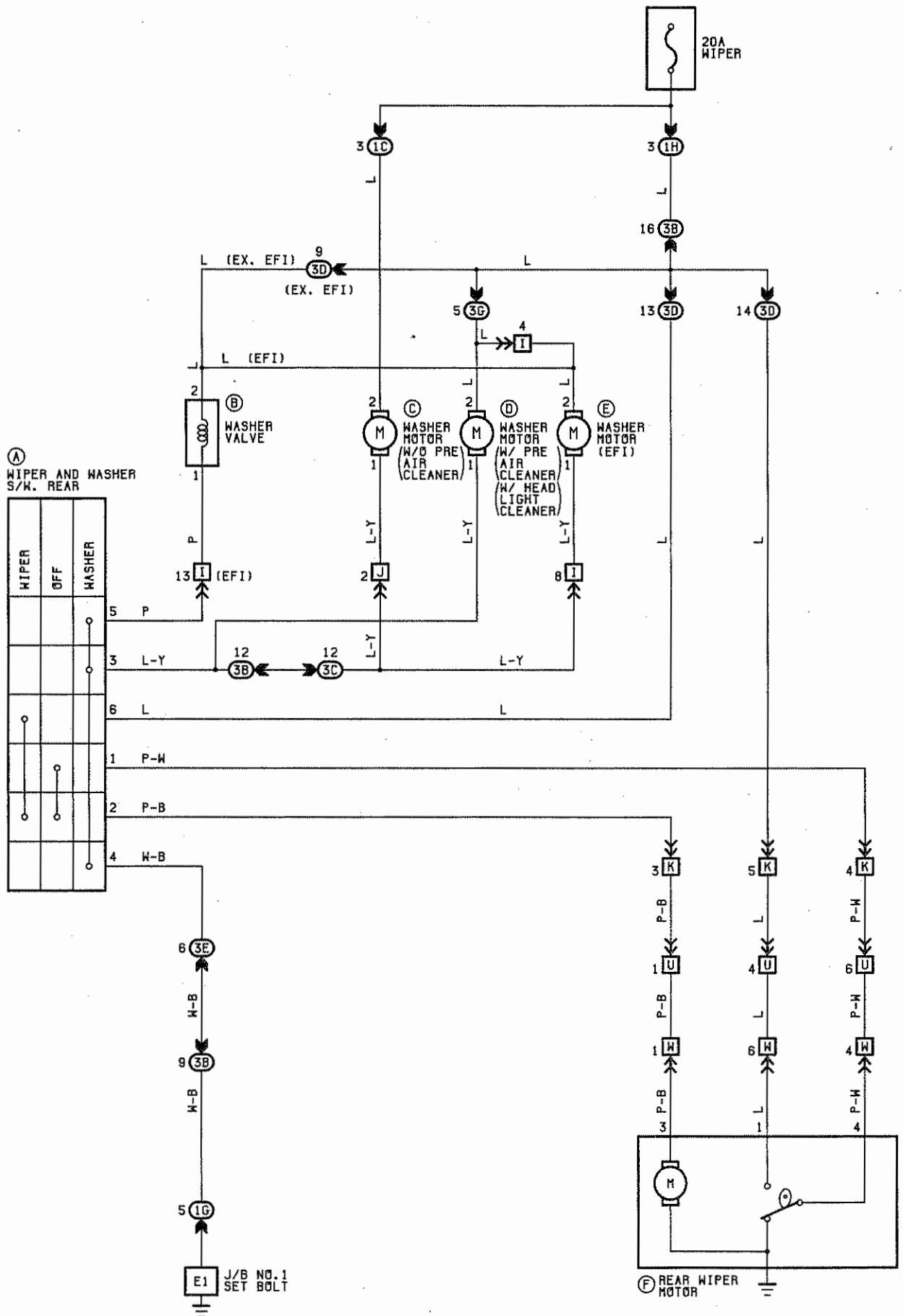
(EFI) (I) YELLOW



(J)



18-1 REAR WIPER AND WASHER (LHD)



⑧ WASHER VALVE

WITH BATTERY VOLTAGE APPLIED BETWEEN TERMINALS,
WASHER FLOWS FROM WASHER TANK TO REAR WASHER HOSE.

(A)



(B)



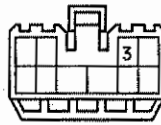
(C) (D) (E) BLACK



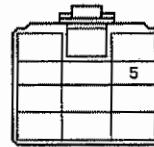
(F)



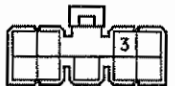
(1C)



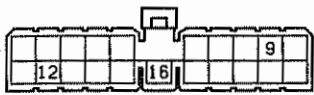
(1G)



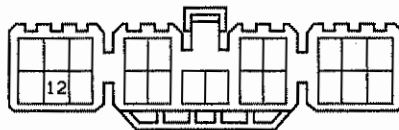
(1H)



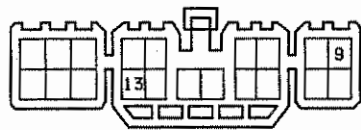
(3B)



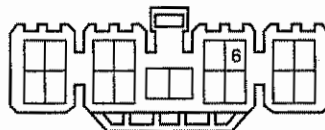
(3C)



(3D)



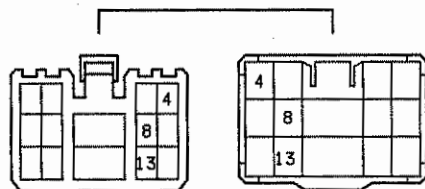
(3E)



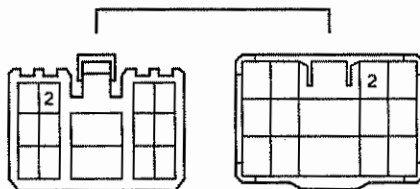
(3G)



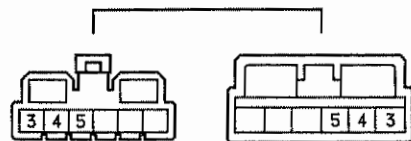
(I) YELLOW



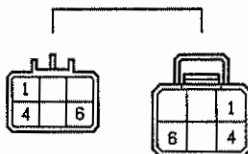
(J)



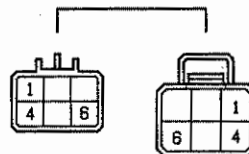
(K) YELLOW



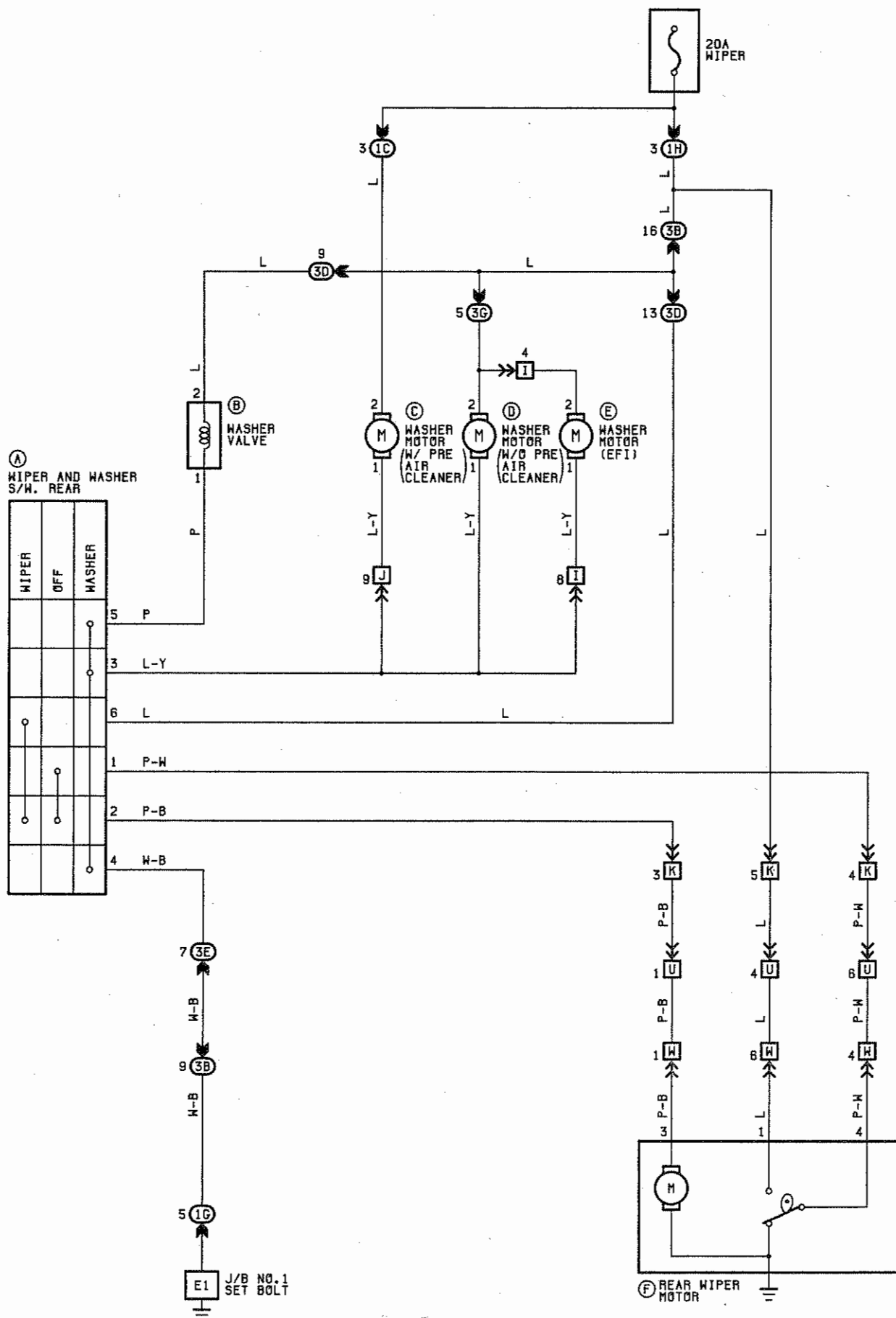
(U)



(W)

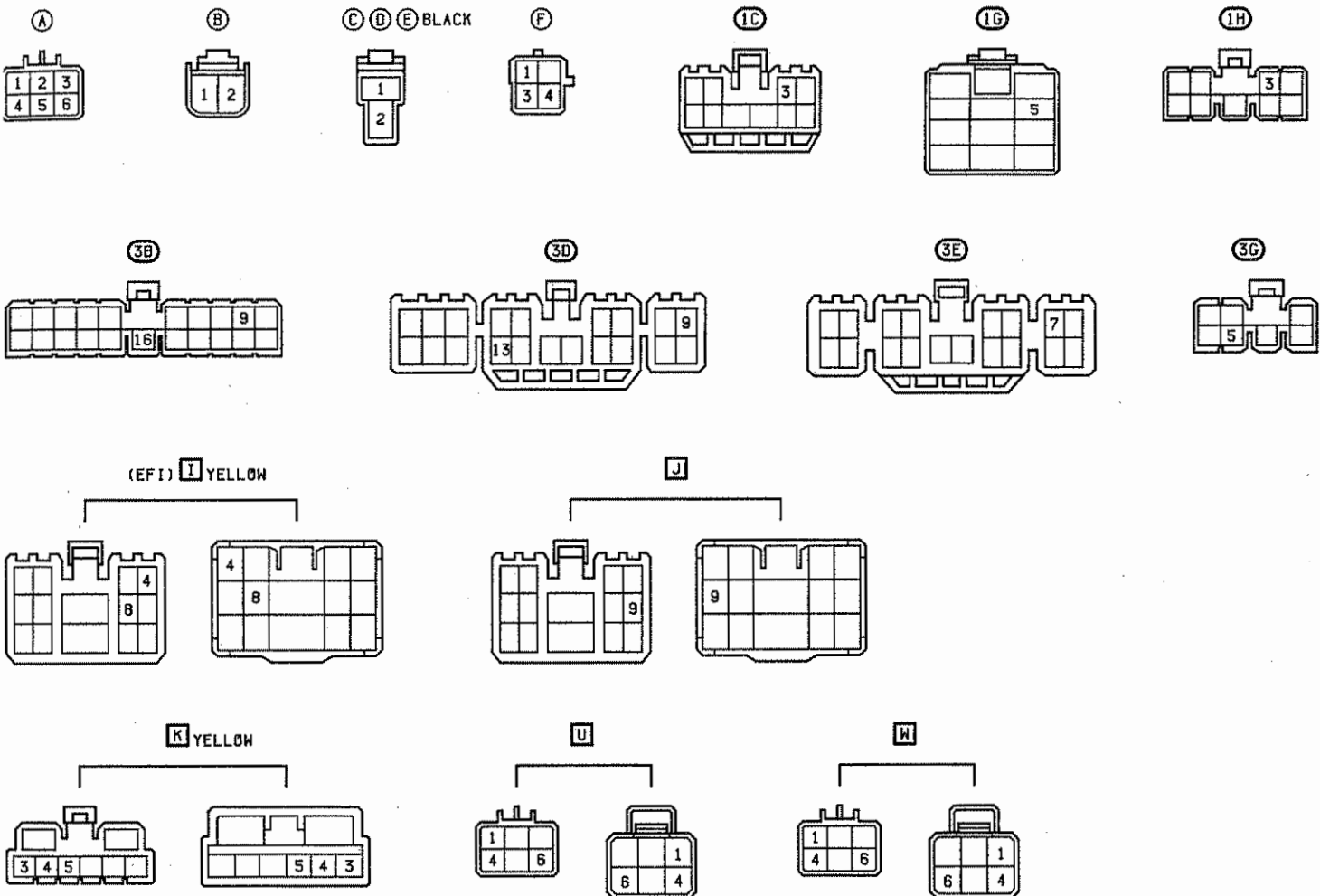


18-2 REAR WIPER AND WASHER (RHD)



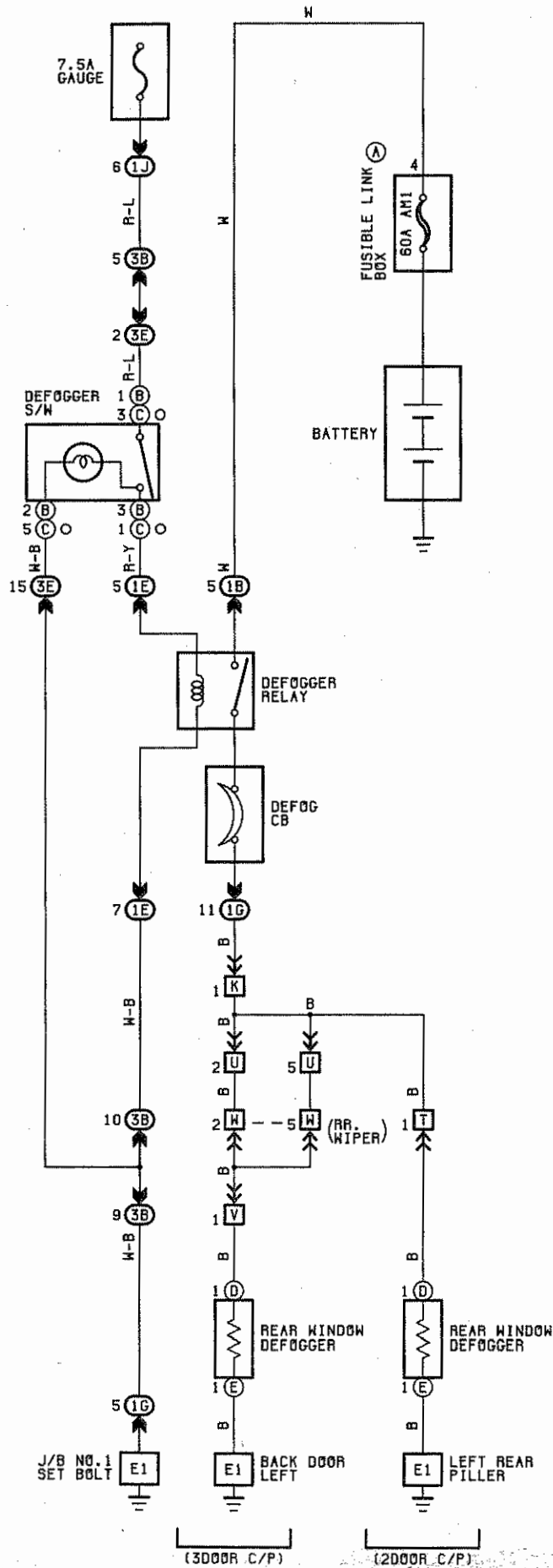
B WASHER VALVE

WITH BATTERY VOLTAGE APPLIED BETWEEN TERMINALS.
WASHER FLOWS FROM WASHER TANK TO REAR WASHER HOSE.



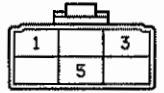
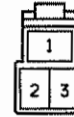
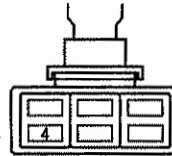
19-1 REAR WINDOW DEFOGGER (LHD)

○ SAUDI ARABIA



DEFOGGER RELAY
CLOSED WITH IGNITION S/W AT IG POSITION
AND DEFOGGER S/W ON
DEFOG CB
OPEN ABOVE 30A

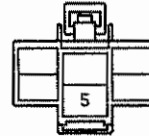
(A) BLACK (EX. SAUDI ARABIA) (B) (SAUDI ARABIA) (C) GREEN



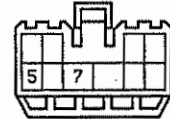
(D) (E) BLACK



(1B) BLACK



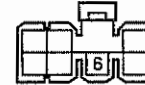
(1E)



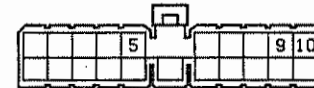
(1G)



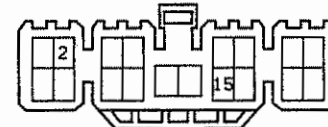
(1J)



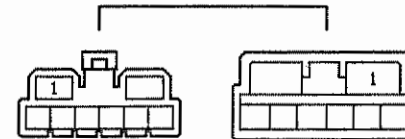
(3B)



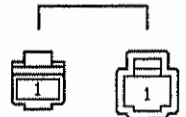
(3E)



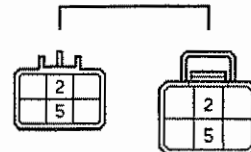
(K)



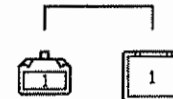
(T)



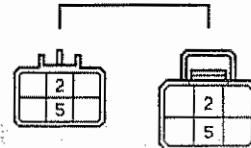
(U)

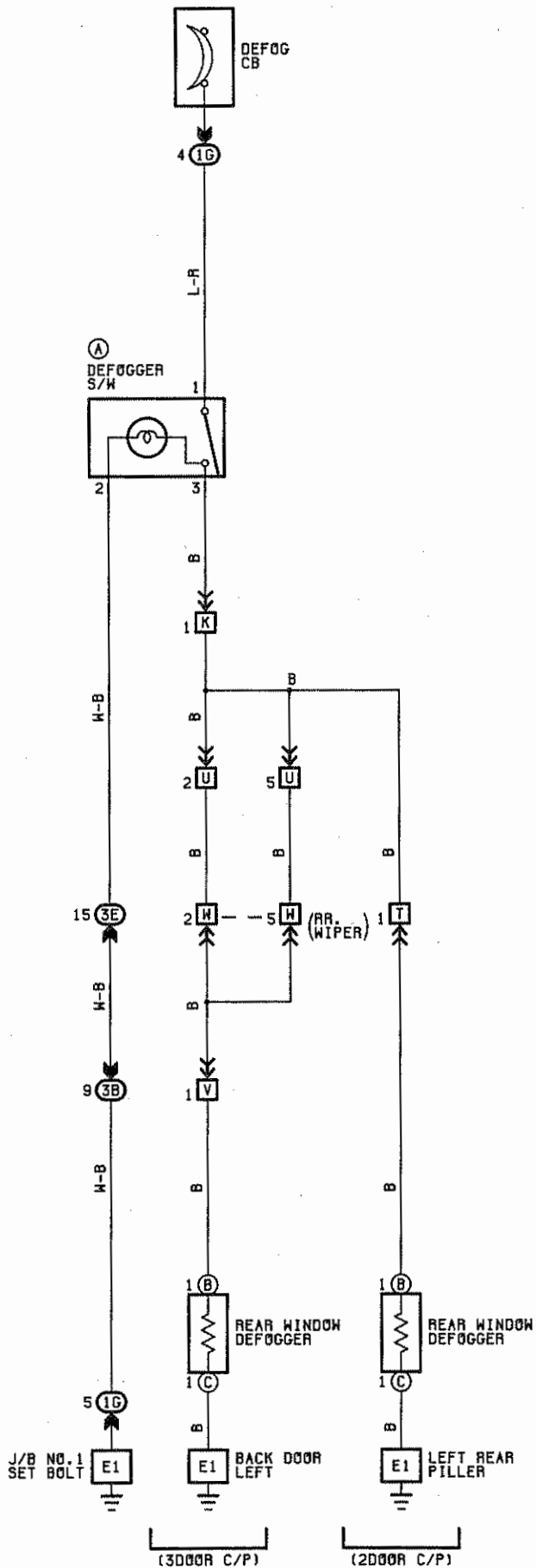


(Y)

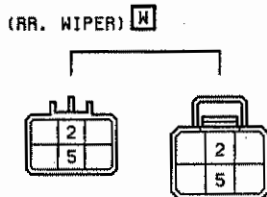
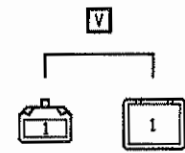
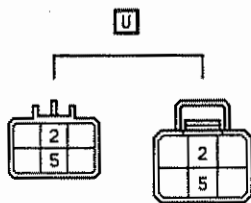
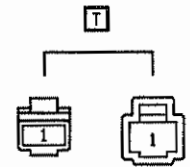
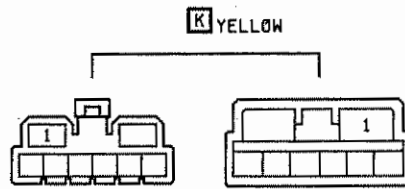
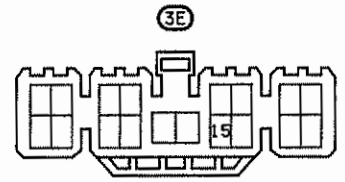
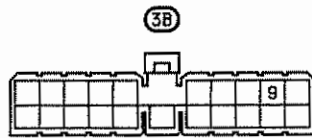
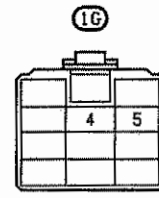


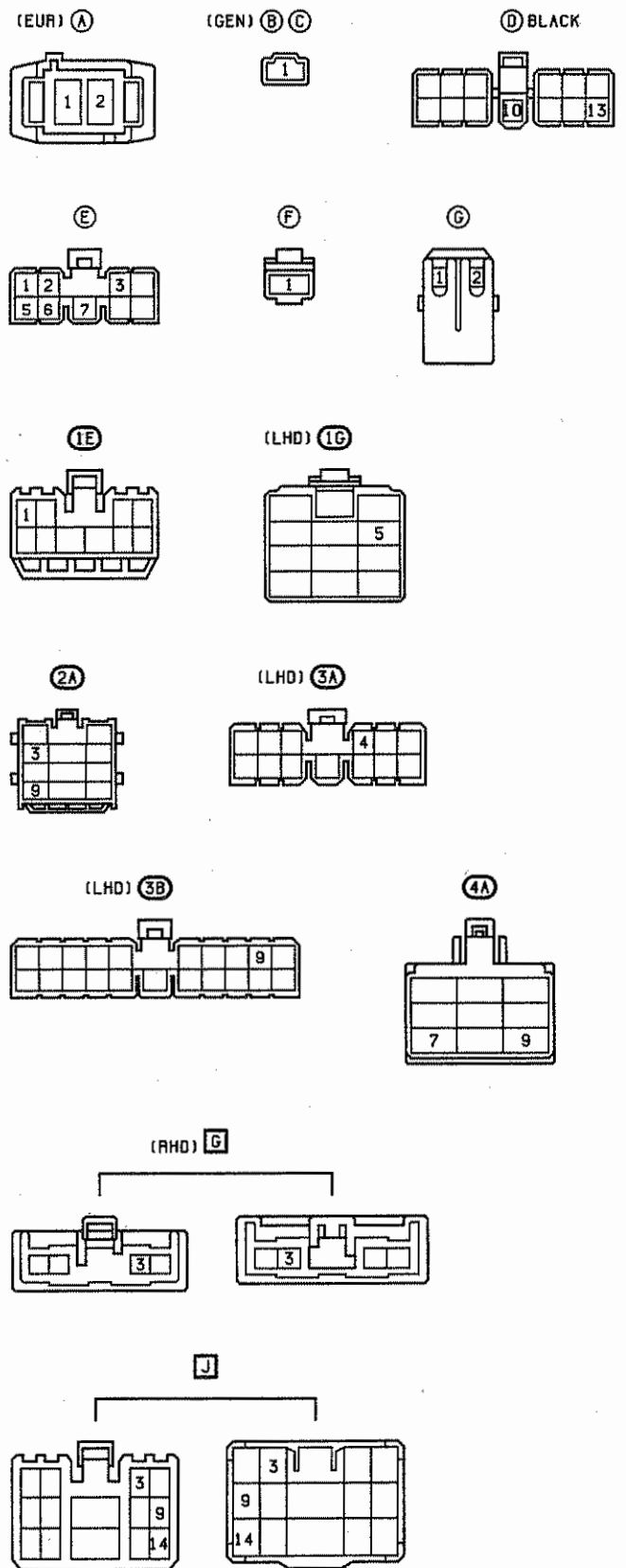
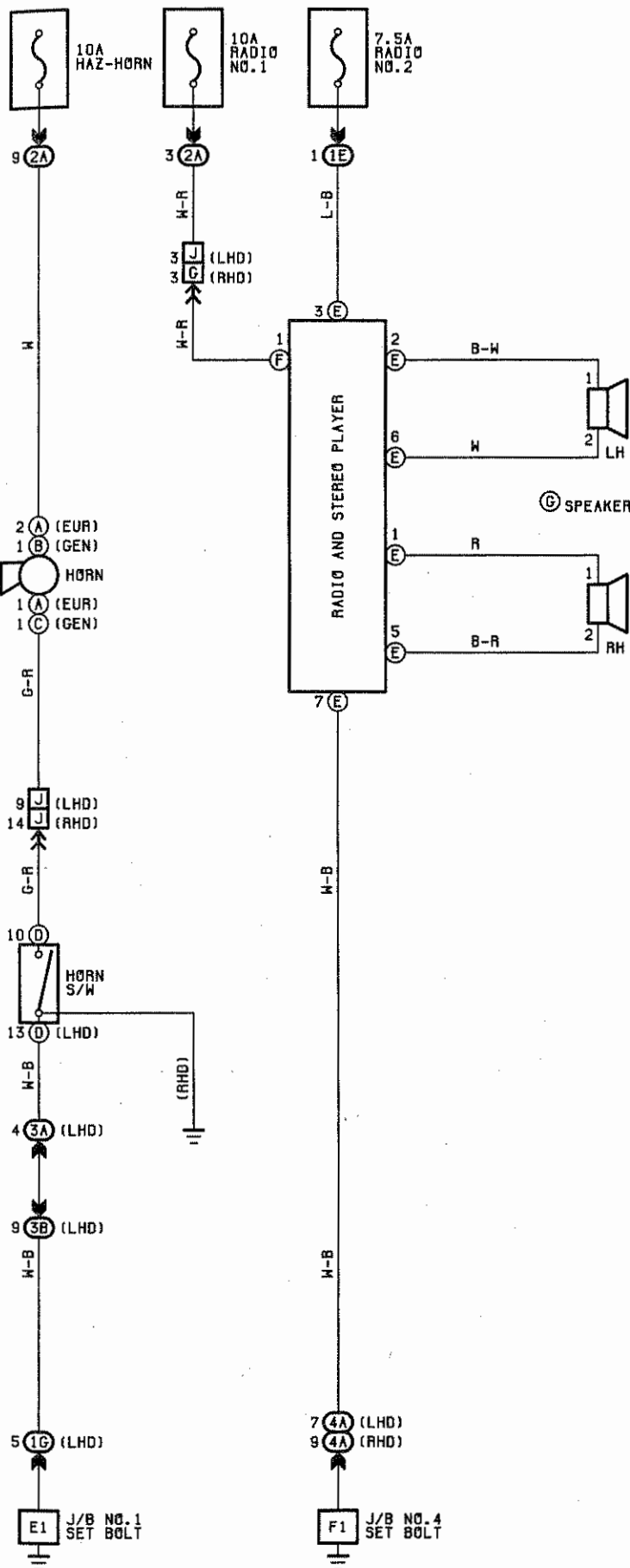
(RR. WIPER) (W)



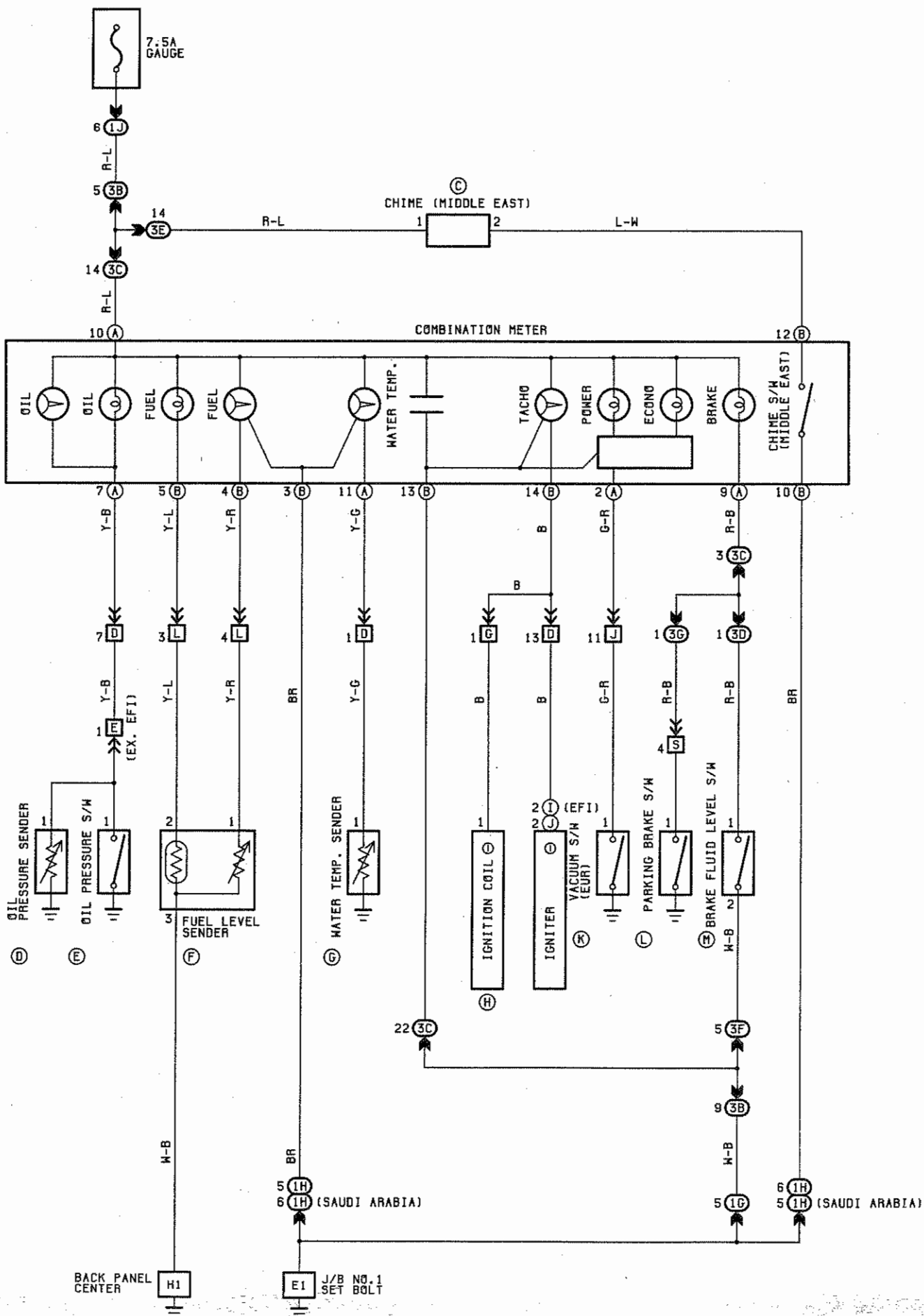


DEFOG CB
OPEN ABOVE 20 A





22-1 COMBINATION METER (LHD)



(E) OIL PRESSURE S/W

1-GROUND: CLOSED WITH OIL PRESSURE BELOW 0.4 KG/CM² (5.7 PSI)

(F) FUEL LEVEL SENDER

1-GROUND: APPROX. 3Ω WITH FUEL FULL

APPROX. 32.5Ω WITH FUEL HALF FULL

APPROX. 110Ω WITH FUEL EMPTY

(G) WATER TEMP. SENDER

1-GROUND: APPROX. 226Ω AT 50°C (122°F)

APPROX. 26.4Ω AT 115°C (239°F)

(K) VACUUM S/W

1-GROUND: OPEN WITH A VACUUM OF 100MMHG (3.94 IN. HG) OR ABOVE

(L) PARKING BRAKE S/W

1-GROUND: CLOSED WITH PARKING BRAKE LEVER PULLED UP

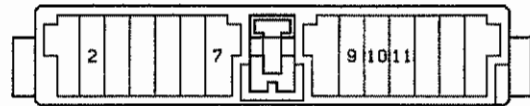
(M) BRAKE FLUID LEVEL S/W

1-2: CLOSED WITH FLOAT DOWN

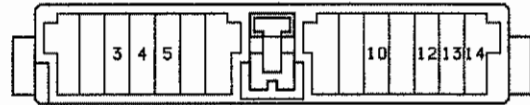
CHIME S/W

(B) 12- (B) 10: CLOSED WITH A SPEED ABOVE 120 KM/H

(A) BLUE



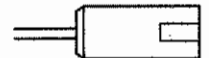
(B)



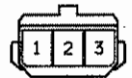
(C) BLACK



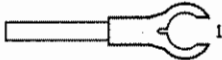
(D) (E)



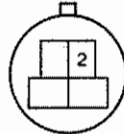
(F)



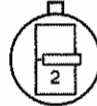
(H)



(EFI) (I) GREEN



(EX. EFI) (J) GREEN



(EUR) (K)



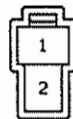
(L)



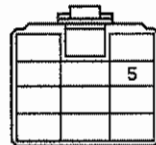
(EUR, EX. SWITZERLAND) (M)



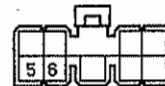
(GER, SWITZERLAND) (N)



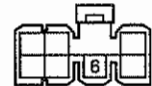
(1G)



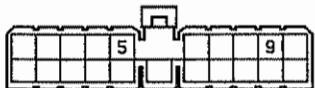
(1H)



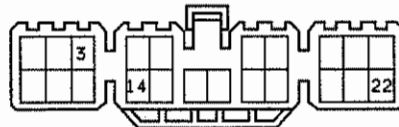
(1J)



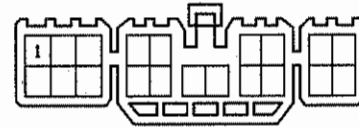
(3B)



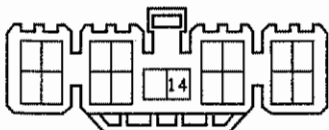
(3C)



(3D)



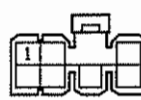
(3E)



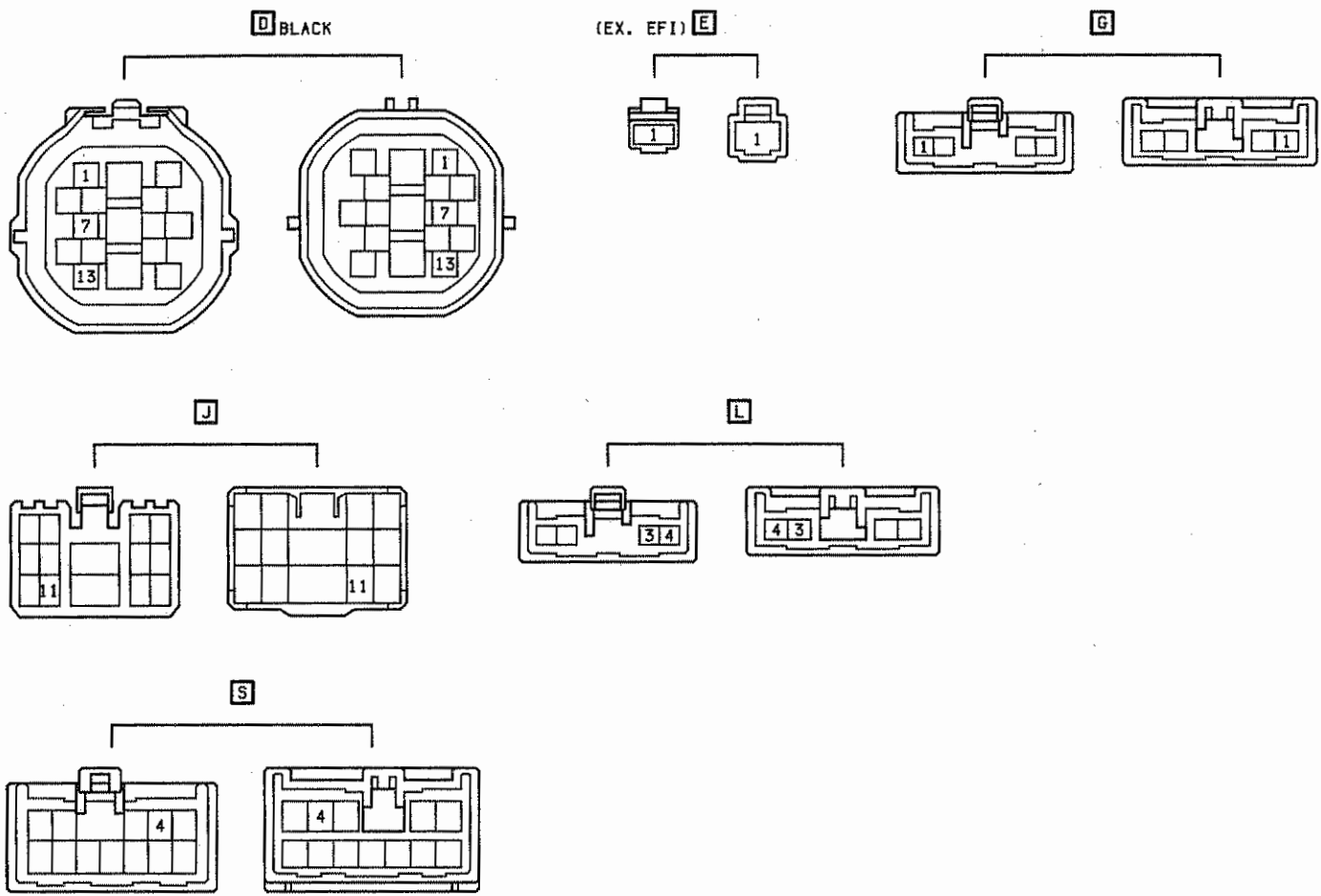
(3F)

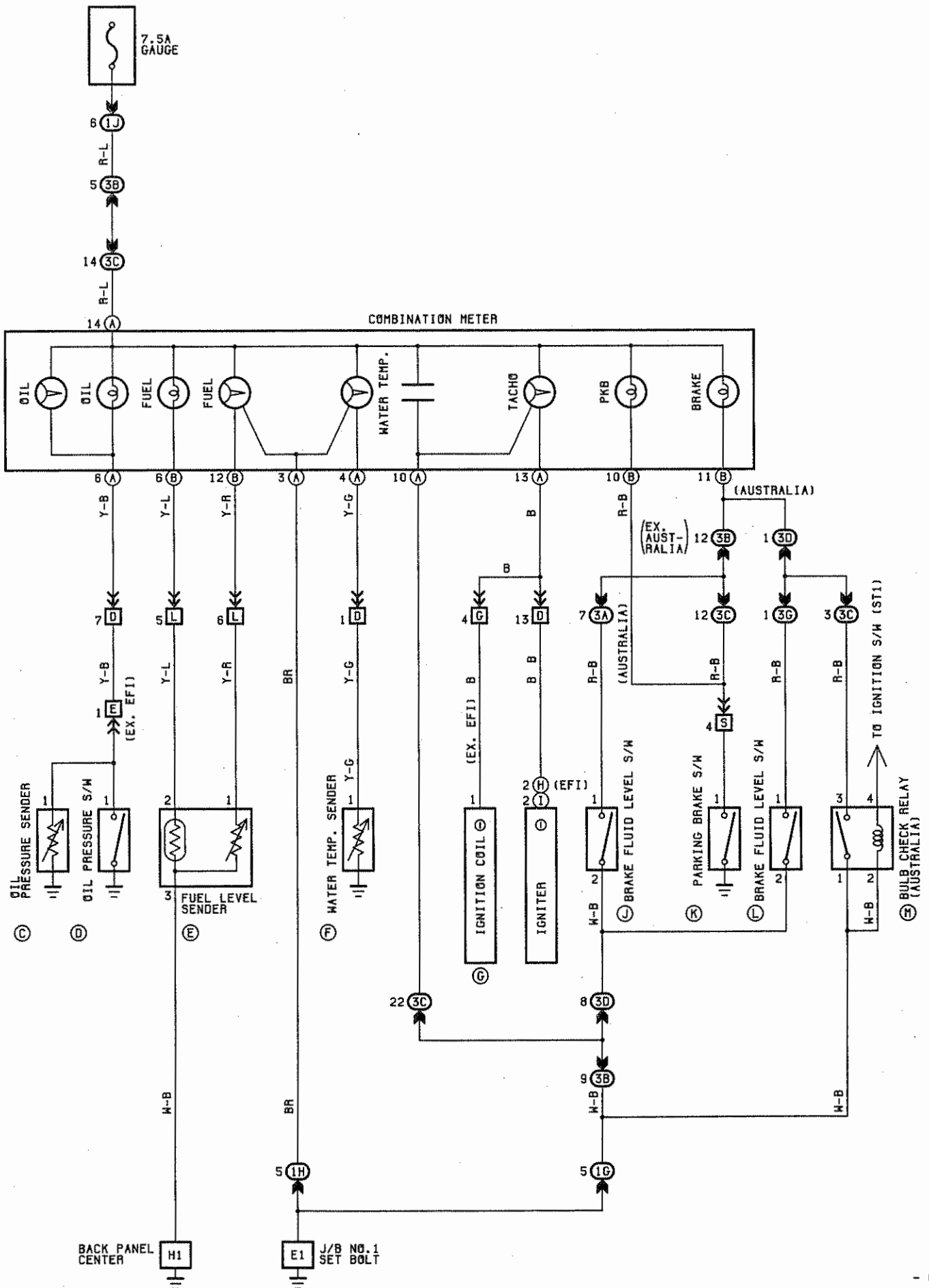


(3G)



22-1 COMBINATION METER (LHD)





22-2 COMBINATION METER (RHD)

Ⓓ OIL PRESSURE S/W

1-GROUND: CLOSED WITH OIL PRESSURE BELOW 0.4 KG/CM² (5.7 PSI)

Ⓔ FUEL LEVEL SENDER

1-3: APPROX. 3 Ω WITH FUEL FULL

APPROX. 32.5 Ω WITH FUEL HALF FULL

APPROX. 110 Ω WITH FUEL EMPTY

Ⓕ WATER TEMP. SENDER

1-GROUND: APPROX. 226 Ω AT 50°C (122°F)

APPROX. 115 Ω AT 115°C (239°F)

Ⓖ PARKING BRAKE S/W

1-GROUND: CLOSED WITH PARKING BRAKE LEVER PULLED UP

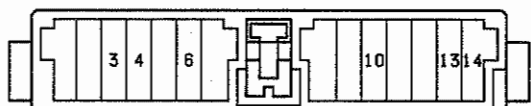
Ⓗ Ⓚ BRAKE FLUID LEVEL S/W

1-2: CLOSED WITH FLOAT DOWN

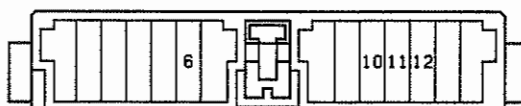
Ⓜ BULB CHECK RELAY (AUSTRALIA)

2-4: CLOSED WITH IGNITION S/W AT ST POSITION

Ⓐ BLUE



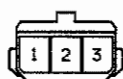
Ⓑ



Ⓒ Ⓓ BLACK



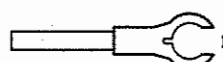
Ⓔ



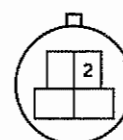
Ⓕ



Ⓖ



(EF1) Ⓗ Ⓚ GREEN (EX. EF1) Ⓚ GREEN



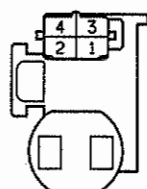
Ⓙ Ⓛ



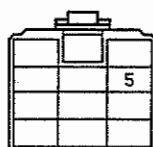
Ⓖ



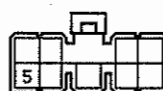
Ⓜ



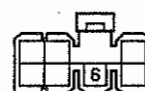
Ⓚ



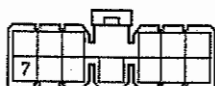
Ⓚ



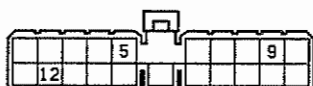
Ⓚ



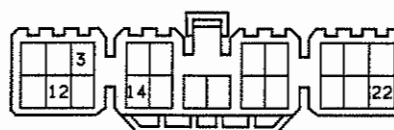
3A



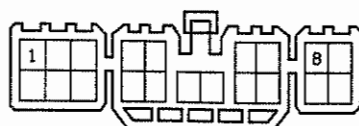
3B



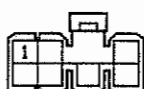
3C



3D



3E



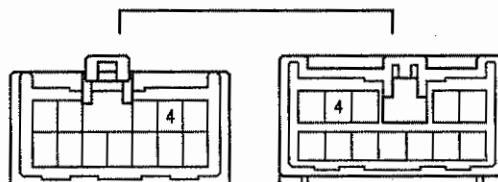
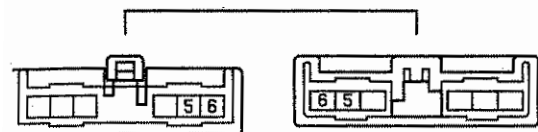
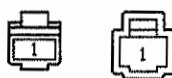
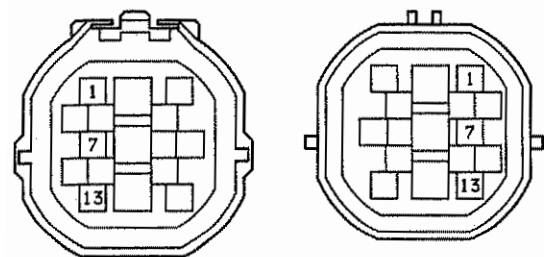
D BLACK

(EX. EFI) **E**

G

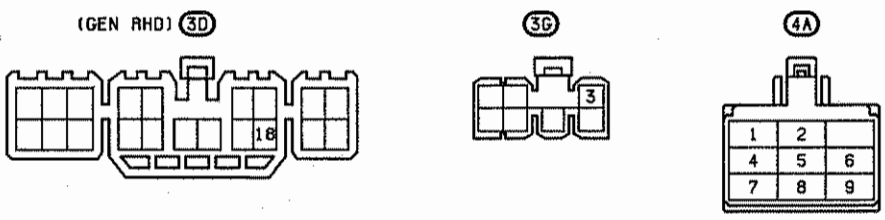
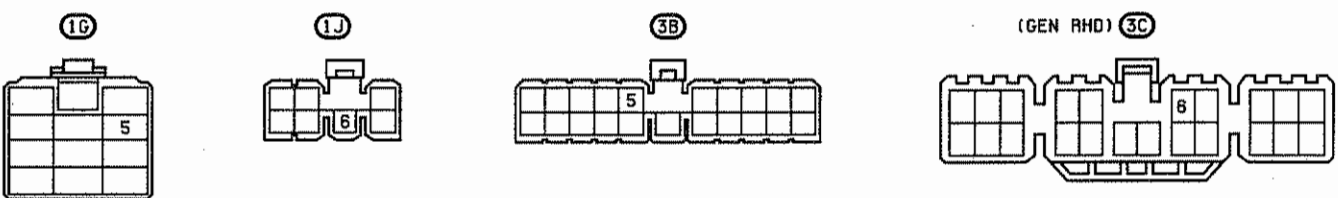
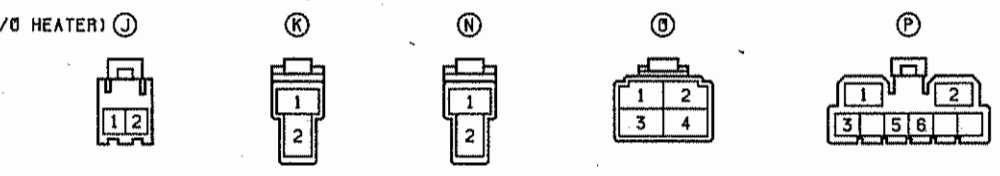
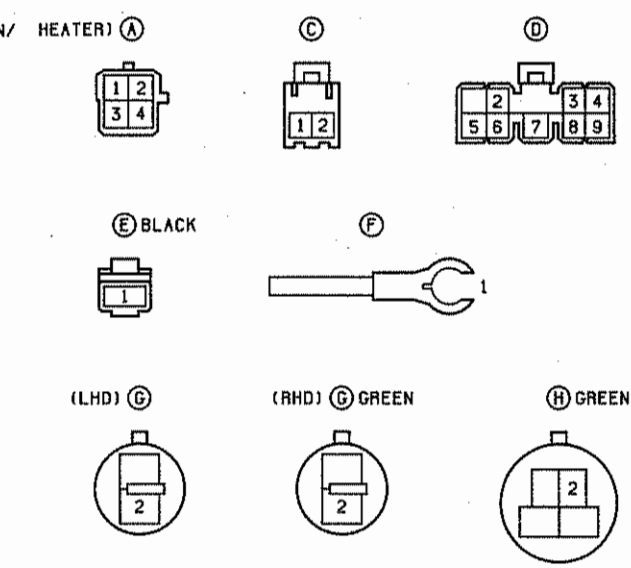
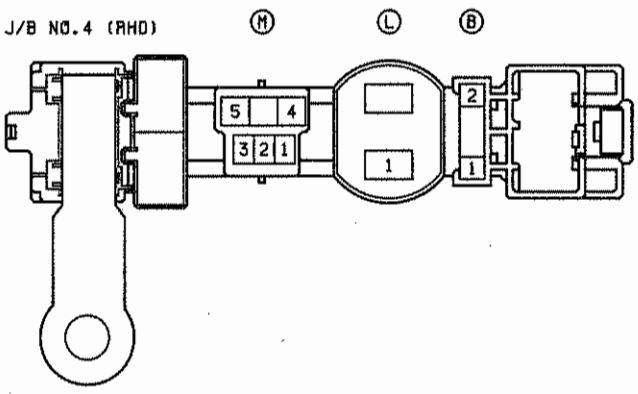
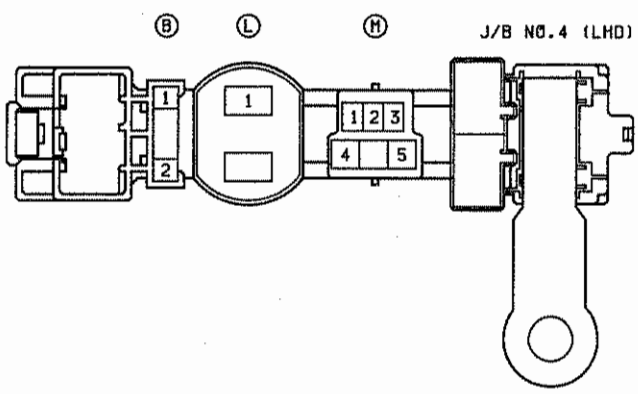
L

S

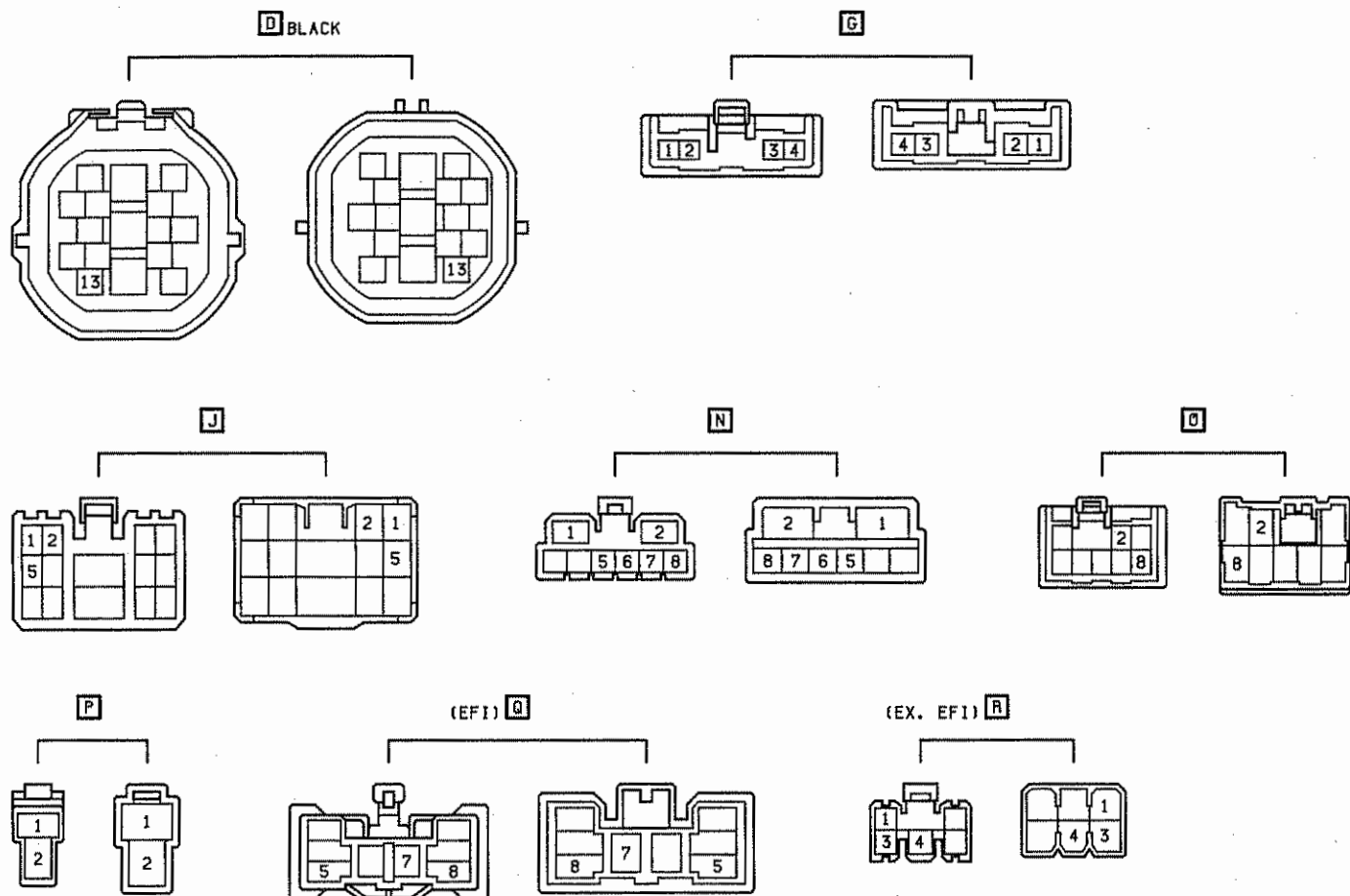


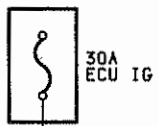


- Ⓒ LOW PRESSURE S/W**
 1-2: OPEN WITH PRESSURE LESS THAN 2.1KG/CM² (30PSI)
- Ⓔ COMPRESSOR**
 1-GROUND: APPROX. 3.7 Ω
- Ⓘ THERMISTOR**
 1-2: APPROX. 4.8 KΩ AT 0°C (32°F)
 APPROX. 4.4 KΩ AT 2°C (36°F)
 APPROX. 4.0 KΩ AT 4°C (39°F)
- Ⓚ IDLE-UP VSV**
 1-2: APPROX. 40 Ω
- Ⓜ HEATER RELAY**
 4-5: CLOSED WITH IGNITION S/W ON AND BLOWER S/W ON
- Ⓢ BLOWER RESISTOR**
 1-2: APPROX. 2.1 Ω
 2-4: APPROX. 0.73 Ω
 3-4: APPROX. 0.2 Ω

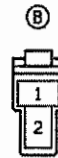
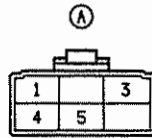


23 AIR CONDITIONER

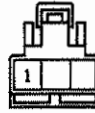




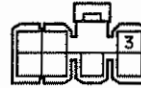
3 (1J)



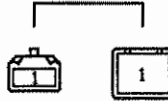
(1A) BLUE



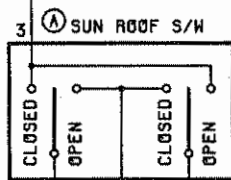
(1J)



(M)



1 (M)



4

5

1

R

B

1

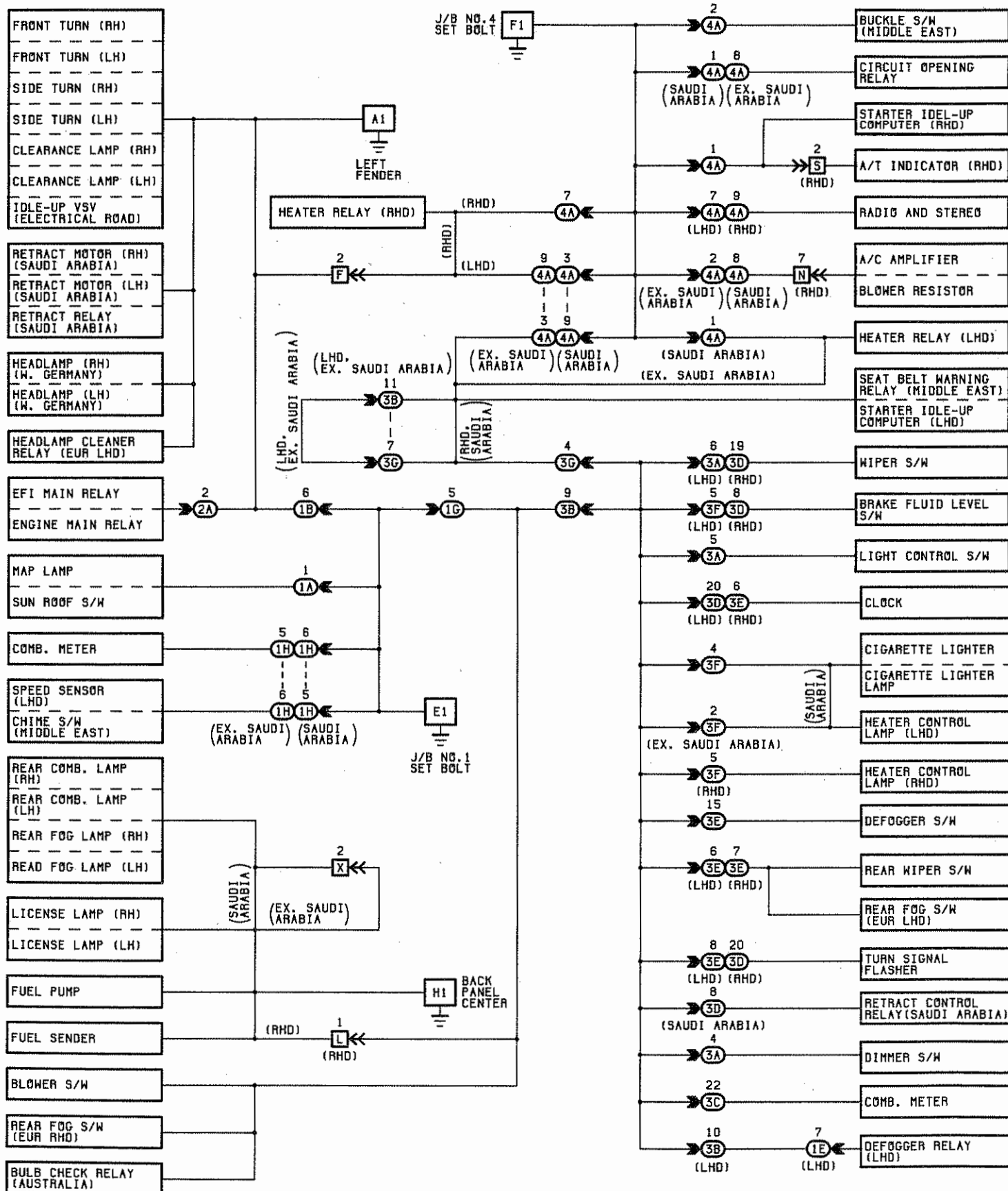
2

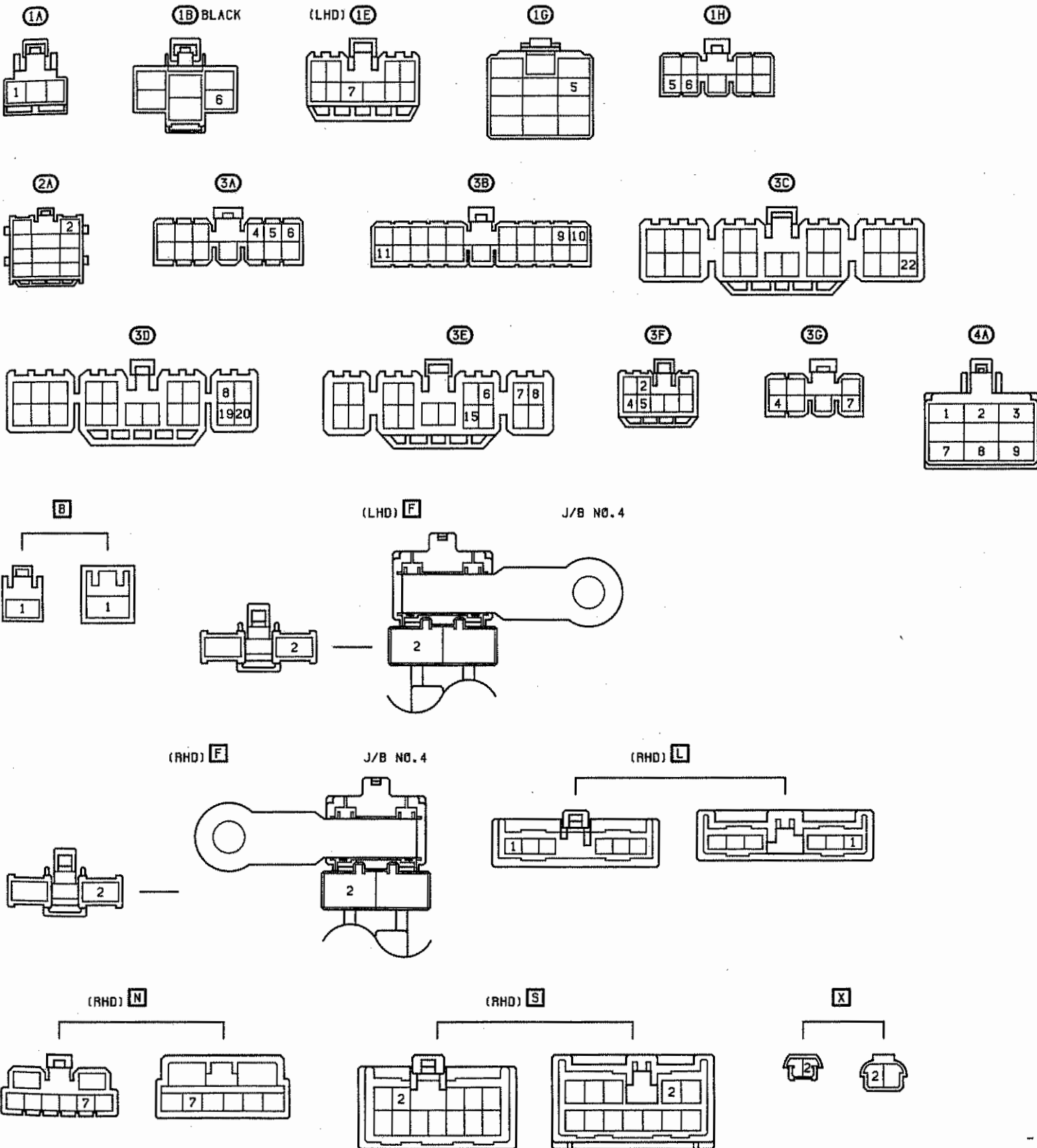
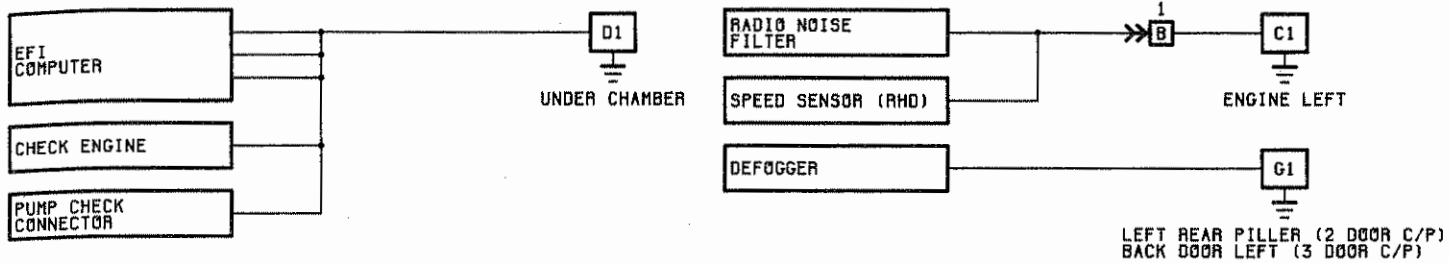
(B) SUN ROOF MOTOR

1 (1A)

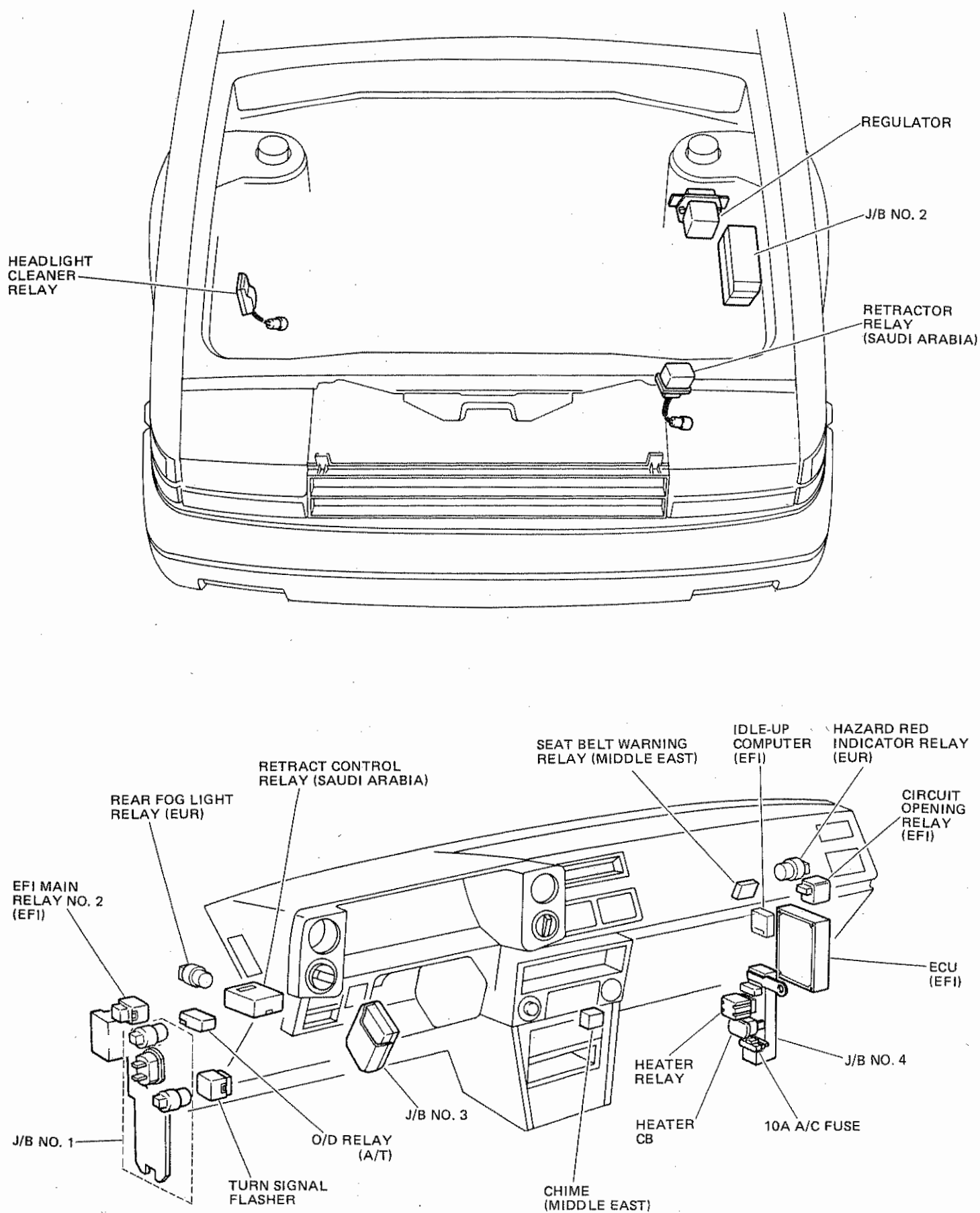
E1 J/B NO.1
SET BOLT

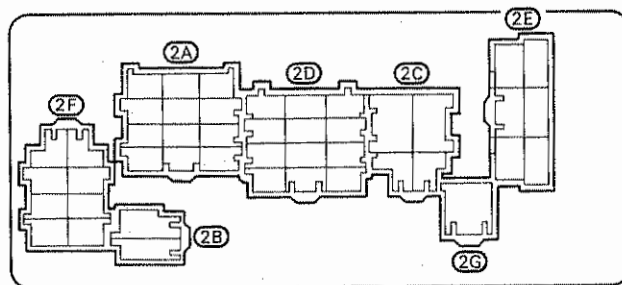
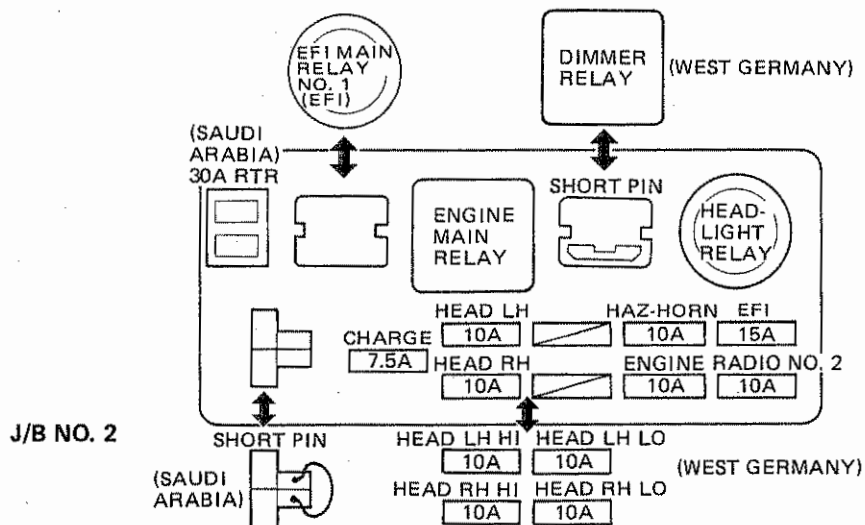
25 GROUND POINTS



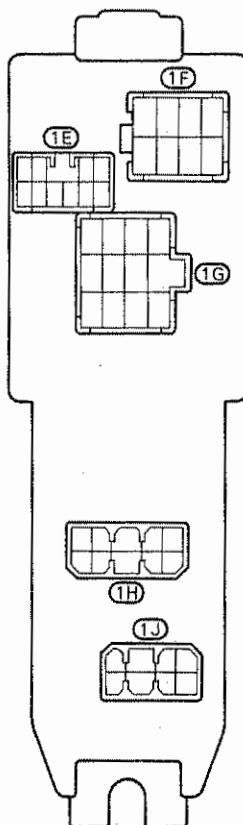
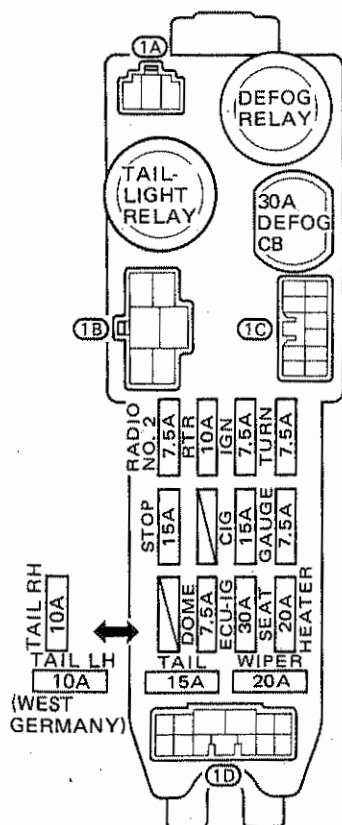


RELAY LOCATIONS (LHD)

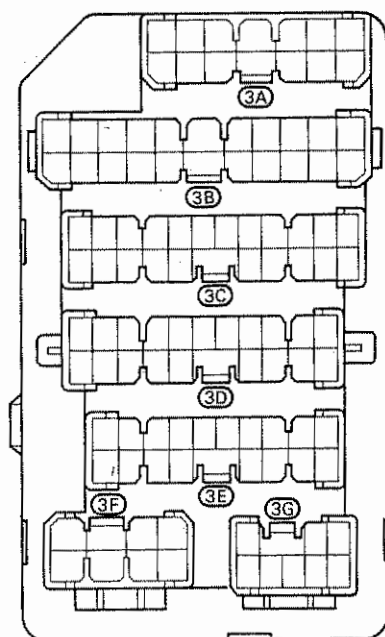




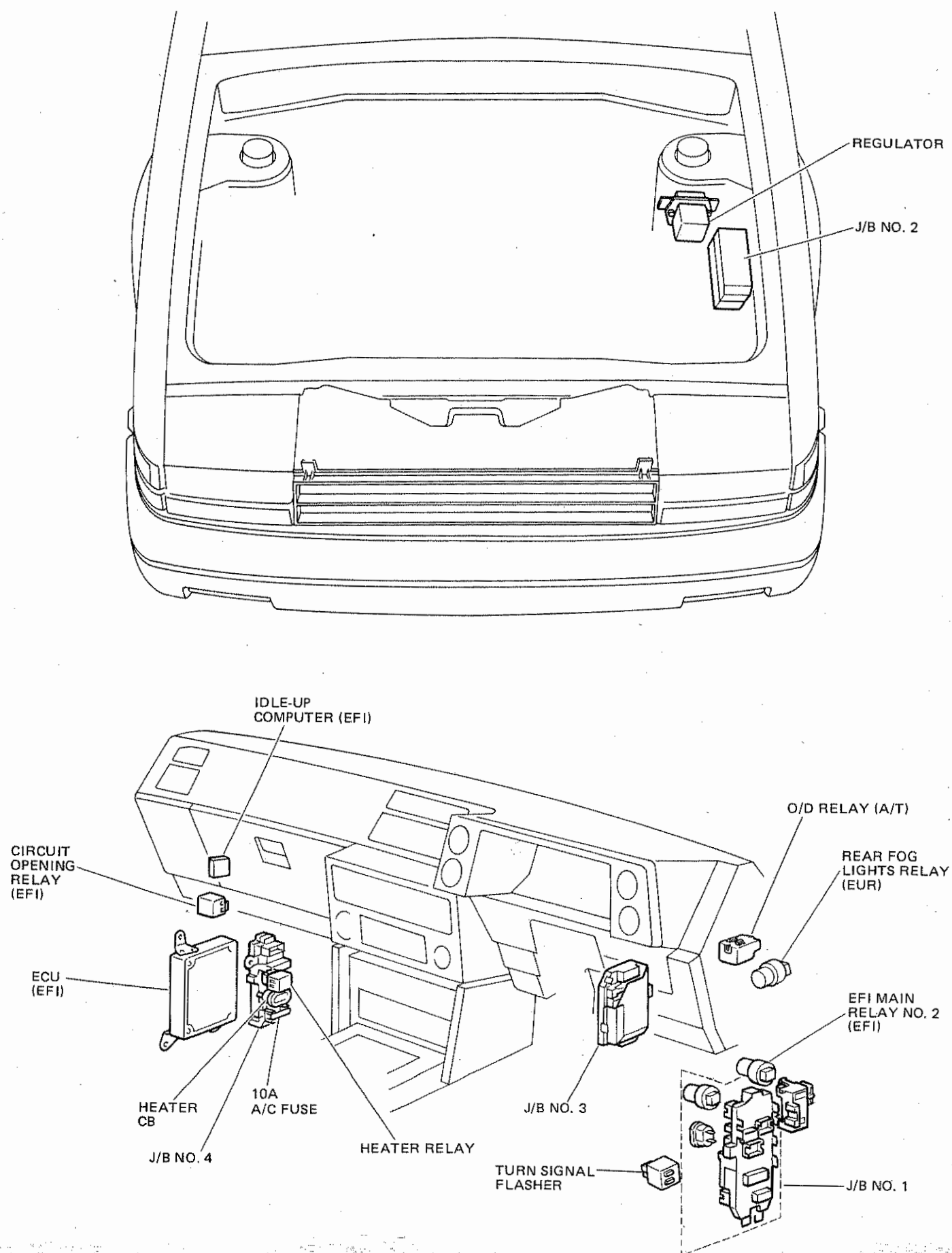
J/B NO. 1

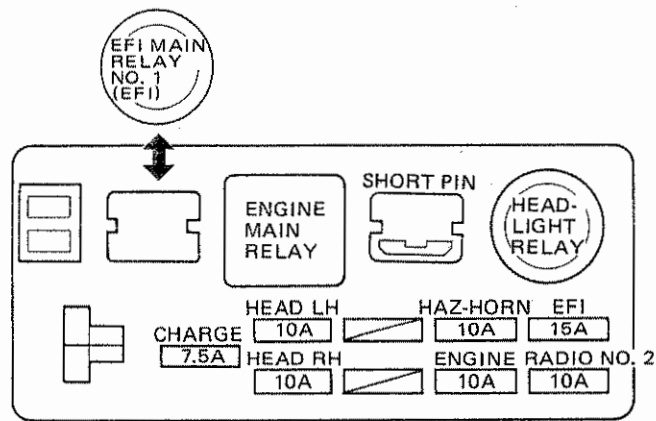


J/B NO. 3

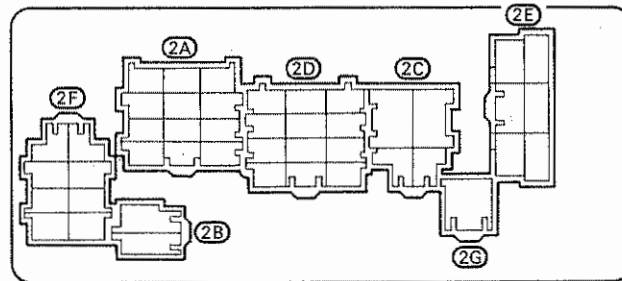


RELAY LOCATIONS (RHD)

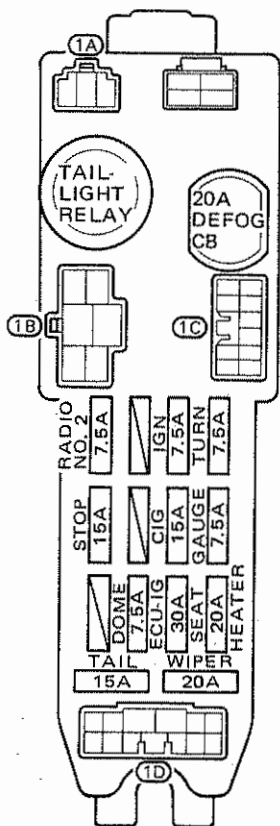




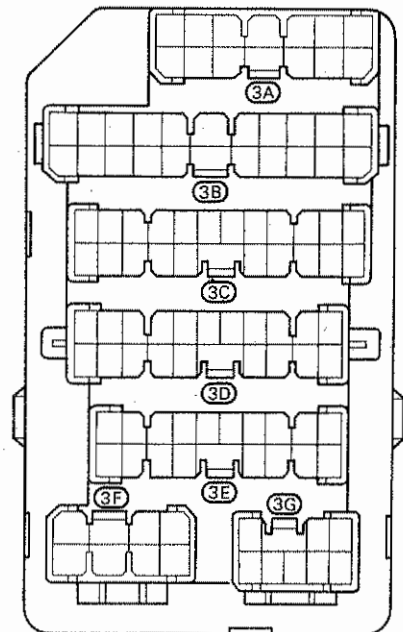
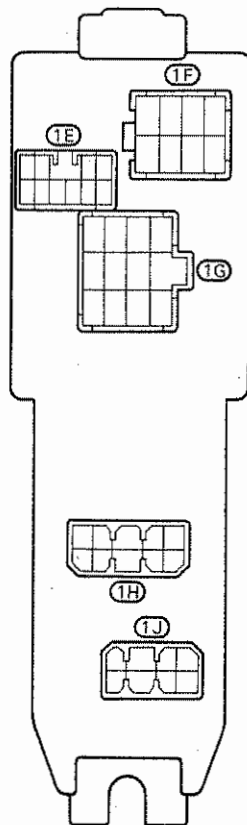
J/B NO. 2



J/B NO. 1



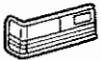
J/B NO. 3



SYSTEM INDEX

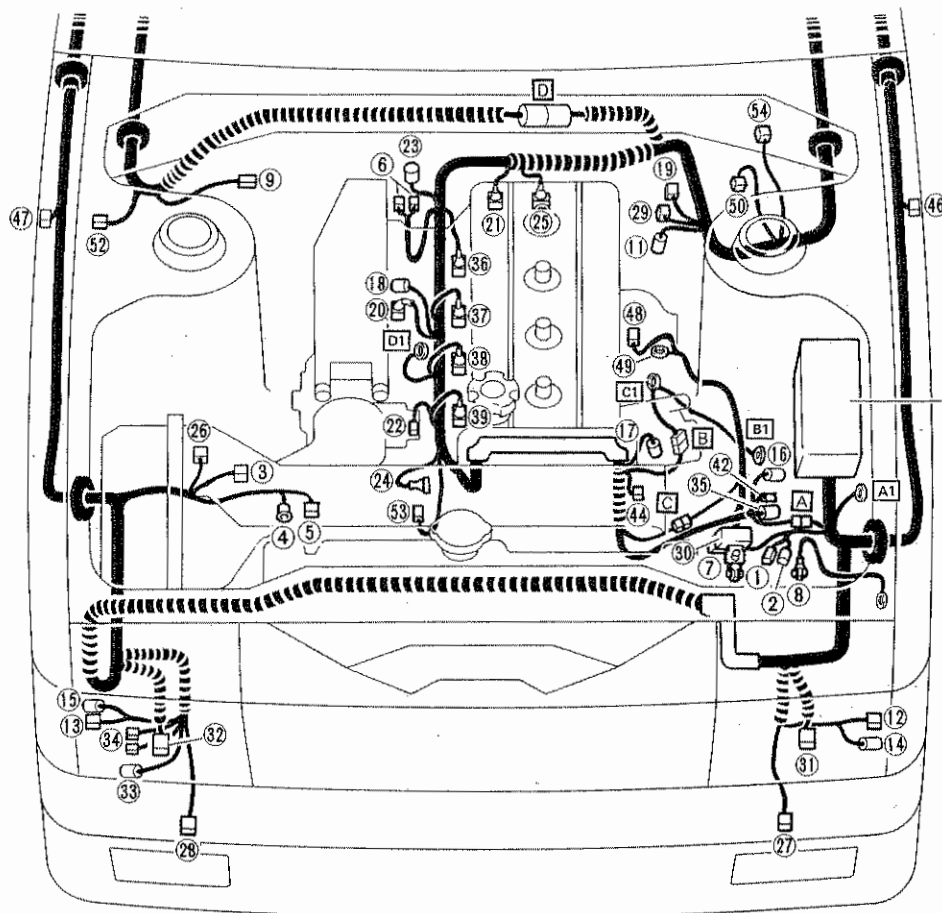
COROLLA **FR**

1984 Production Vehicles (Page 1 to Page 4)

SYSTEMS	LOCATION	SYSTEMS	LOCATION
Air Conditioner, Cooler and Heater	 2-1	Rear Fog Light	 4-4
Back-up Light	 2-5	Rear Wiper and Washer	 3-1
Carburetor	 1-8	Seat Belt	 2-5
Charging	 1-7	Starting	 1-1
CIG. Lighter	 4-6	Stop Light	 3-3
Clock	 4-5	Sun Roof	 2-7
Combination Meter	 2-3	Taillight and Illumination	 3-4, 4-1
Defogger	 2-6	Turn Signal and Hazard	 2-7
EFI	 1-3	Windshield Wiper and Washer	 3-2
Headlight	 3-6, 3-7, 4-3		
Headlight Cleaner	 3-3		
Horn	 2-8		
Idle-up	 4-7		
Ignition	 1-5		
Interior Light	 4-5		
Overdrive	 2-5		
Power Source	 1-1		
Radio and Stereo	 4-6		

ELECTRICAL WIRING ROUTING AE86R (RHD)

[EFI]



J/B NO. 2

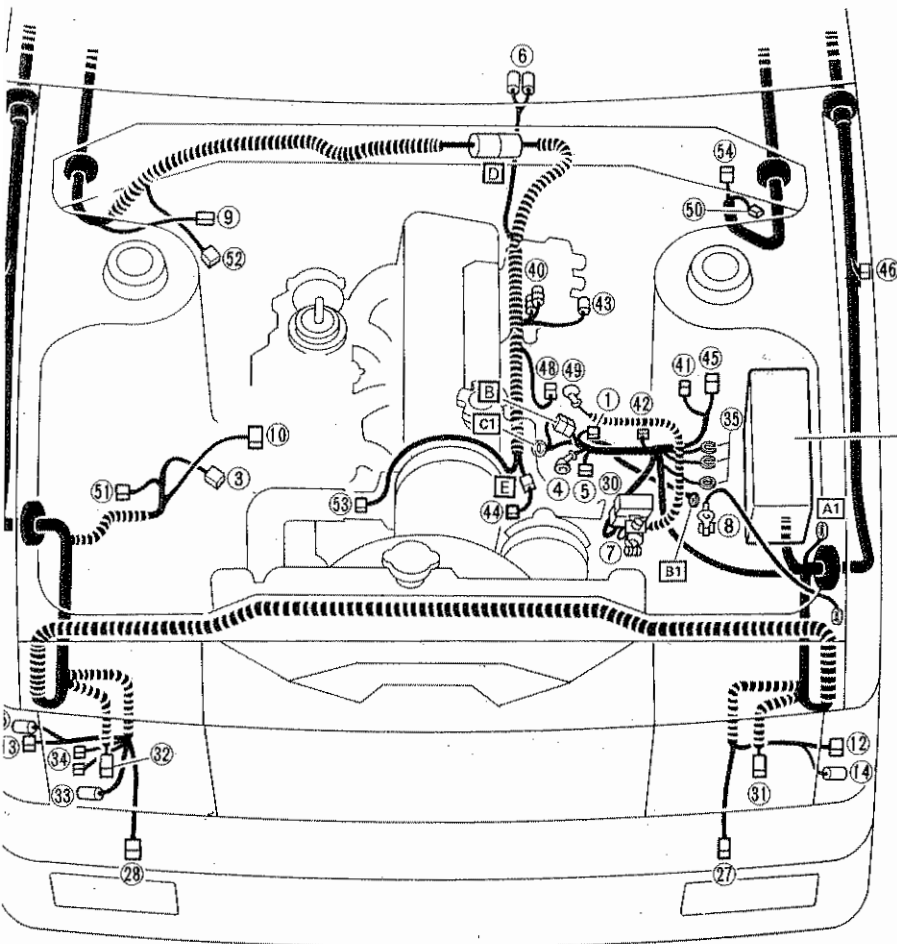
2A
2B
2C
2D
2E

- ① A/C Compressor
- ② A/C Compressor Sensor
- ③ A/C Idle-up VSV
- ④ } Alternator
- ⑤ }
- ⑥ Back-up Light S/W (M/T)
- ⑦ Battery $\oplus$ Terminal
- ⑧ Battery $\ominus$ Terminal
- ⑨ Brake Fluid Level S/W
- ⑩ Carburetor (Fuel Cut and Choke Heater)
- ⑪ Check Engine Connector (EFI)
- ⑫ Clearance and Side Turn Signal Lamp LH (GEN)
- ⑬ Clearance and Side Turn Signal Lamp RH (GEN)
- ⑭ Clearance Lamp LH (EUR)
- ⑮ Clearance Lamp RH (EUR)
- ⑯ CO Control Resistor (EFI)
- ⑰ Distributor

- ⑱ EFI In Air Sensor
- ⑲ EFI Service Connector
- ⑳ EFI Start Injector
- ㉑ EFI Start Injector Time S/W
- ㉒ EFI Throttle Sensor
- ㉓ EFI Vacuum Sensor
- ㉔ EFI VSV
- ㉕ EFI Water Temp. Sensor
- ㉖ Electrical Idle-up VSV (EFI)
- ㉗ Front Turn Signal Lamp LH
- ㉘ Front Turn Signal Lamp RH
- ㉙ Fuel Pump Check Connector (EFI)
- ㉚ Fusible Link Box
- ㉛ Headlamp LH
- ㉜ Headlamp RH
- ㉝ Horn (EUR)
- ㉞ Horn (GEN)
- ㉟ Ignition Coil

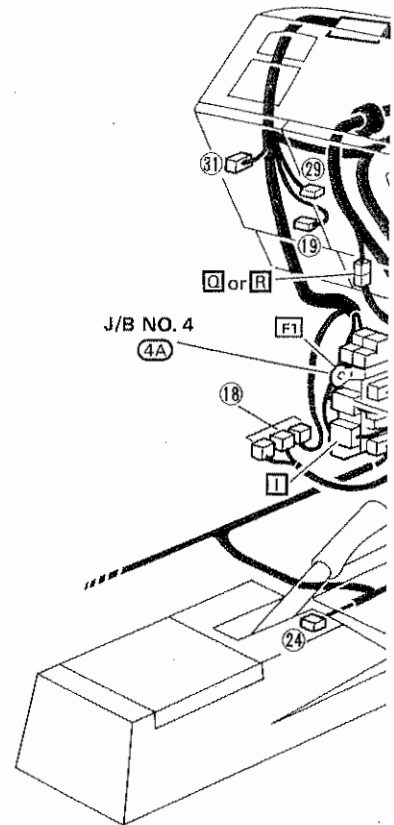
- ㊳ } Injector (EFI)
- ㊴ }
- ㊵ Neutral Start S/W
- ㊶ Back-up Light S/W
- ㊷ Noise Filter (CHA)
- ㊸ Noise Filter (IGN)
- ㊹ O/D Solenoid (A/)
- ㊺ Oil Pressure S/W (
- ㊻ Regulator
- ㊼ Side Turn Signal L
- ㊽ Side Turn Signal L
- ㊾ } Starter
- ㊿ Washer Motor
- ㊿ Washer Motor
- ㊿ Washer Valve
- ㊿ Water Temp. Senc

[Except EFI]



J/B NO. 2

- 2A
- 2B
- 2C
- 2D
- 2E

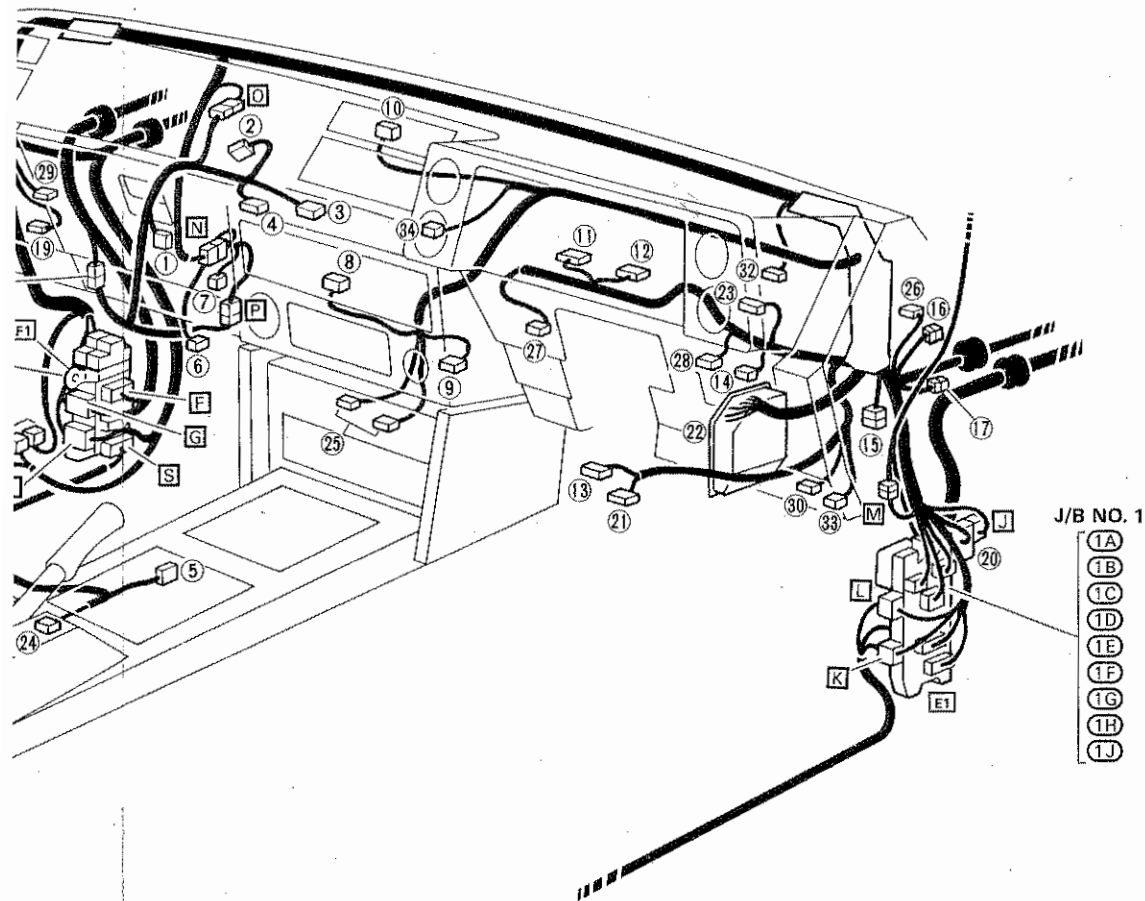


or (EFI)

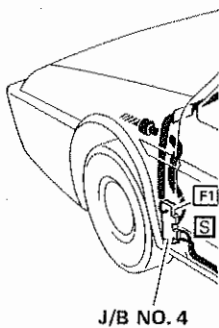
Start S/W and
Light S/W (A/T)
Filter (CHARGING SYSTEM)
Filter (IGNITION SYSTEM)
Solenoïd (A/T)
Pressure S/W (or Sender)
Motor
Turn Signal Lamp LH
Turn Signal Lamp RH (EUR)
er
Motor
Motor
Valve
Temp. Sender

- 54 Wiper Motor
- 2A } Engine Room Main Wire and J/B No. 2
- 2B }
- 2C }
- 2D }
- 2E }
- A Engine Wire and Engine Room Main Wire (EFI, Beside J/B No. 2)
- B Engine Room Main Wire and Ground Wire (Engine Left)
- C Engine Wire and Engine No. 2 Wire (EFI, Engine Left)
- D Engine Wire and Cowl Wire (Engine Rear)
- E Engine Wire and Oil Pressure Wire (Except EFI, Engine Front)
- A1 Ground Left Fender
- B1 Ground Left Fender Epron
- C1 Ground Engine Left
- D1 Ground Under Chamber

- 1 A/C Amplifier
- 2 A/C Pressure S/W
- 3 A/C S/W (or Volume)
- 4 A/C Thermistor
- 5 A/T Indicator Light
- 6 Blower Motor
- 7 Blower Resistor
- 8 Blower S/W
- 9 Cigarette Lighter
- 10 Clock
- 11 } Combination Meter
- 12 }
- 13 Combination S/W
- 14 Defogger S/W
- 15 Diode
- 16 Diode (HEADLIGHT AND REAR FOG L)
- 17 Diode (IDLE-UP SYSTEM)
- 18 Diode (IDLE-UP SYSTEM)
- 19 ECU (EFI)
- 20 EFI Circuit Opening Relay
- 21 EFI Main Relay (EFI) or Valve Che (Australia)
- 22 Ignition S/W



[3 Door]



J/B NO. 4

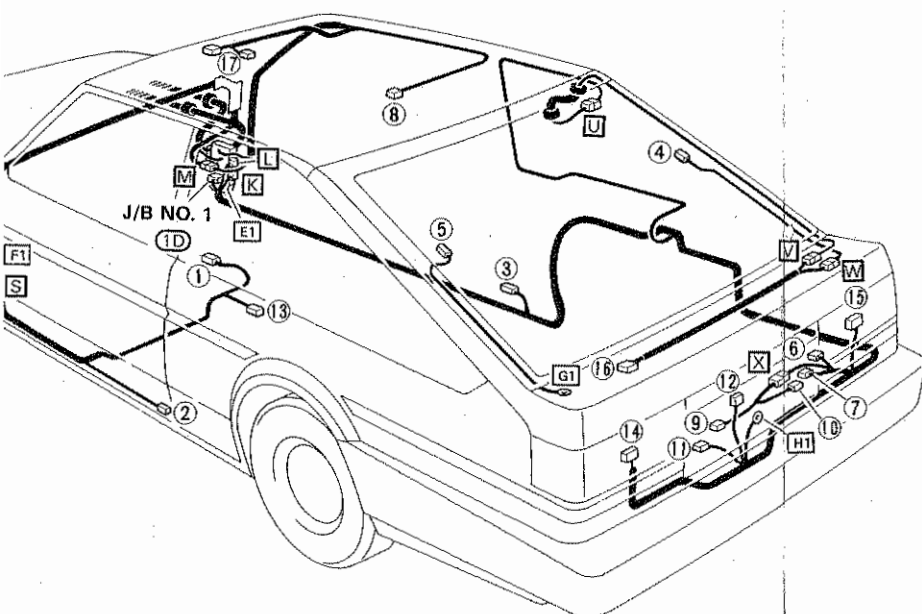
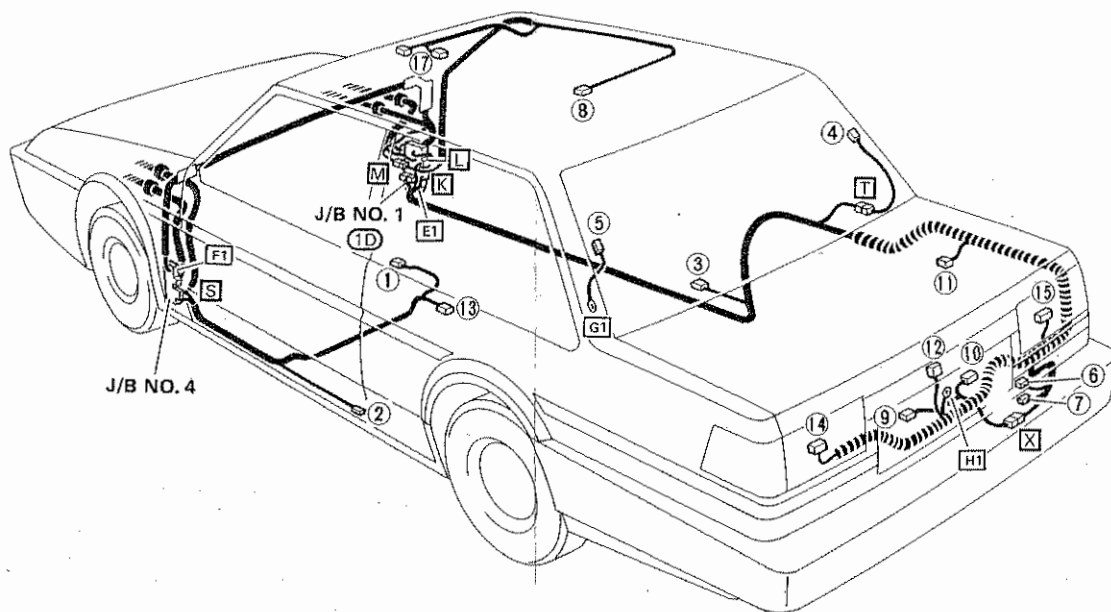
- 22 J/B No. 3
- 23 Light Control S/W and Rheostat
- 24 Parking Brake S/W
- 25 Radio and Stereo Player
- 26 Rear Fog Light Relay
- 27 Rear Fog Light S/W
- 28 Rear Wiper S/W
- 29 Speaker LH
- 30 Speaker RH
- 31 Starter Idle-up Computer
- 32 Stop Light S/W
- 33 Turn Signal Flasher
- 34 Wiper and Washer S/W
- 1A Roof Wire and J/B No. 1
- 1B } Engine Room Main Wire and J/B No. 1
- 1C }
- 1D Floor Wire and J/B No. 1
- 1E }
- 1F }
- 1G } Cowl Wire and J/B No. 1
- 1H }
- 1J }

- 4A Cowl Wire and J/B No. 4
- F } Engine Room Main Wire and Cowl Wire
- G } (Left Kick Panel)
- I Engine Wire and Cowl Wire
- (Left Kick Panel)
- J Engine Room Main Wire and Cowl Wire
- (Right Kick Panel)
- K } Floor Wire and Cowl Wire
- L } (Right Kick Panel)
- M Roof Wire (w/Sun Roof) and Cowl Wire
- (Instrument Panel Right)
- N Heater Wire and Cowl Wire
- (Instrument Panel Left)
- O A/C Wire and Cowl Wire
- (Instrument Panel Left)
- P A/C Wire and Heater Wire
- (Instrument Panel Left)
- Q } A/C Wire and Engine Room Main Wire
- R } (Instrument Panel Left)
- S Floor No. 2 Wire and Cowl Wire
- (Left Kick Panel)
- E1 Ground J/B No. 1 Set Bolt
- F1 Ground J/B No. 4 Set Bolt

- 1 A/T Indicator
- 2 } Courtesy S
- 3 }
- 4 Defogger +
- 5 Defogger -
- 6 Fuel Level S
- 7 Fuel Pump
- 8 Interior Lan
- 9 Licence Lan
- 10 Licence Lan
- 11 Luggage Ro
- 12 Luggage Ro

RHD

[2 Door]



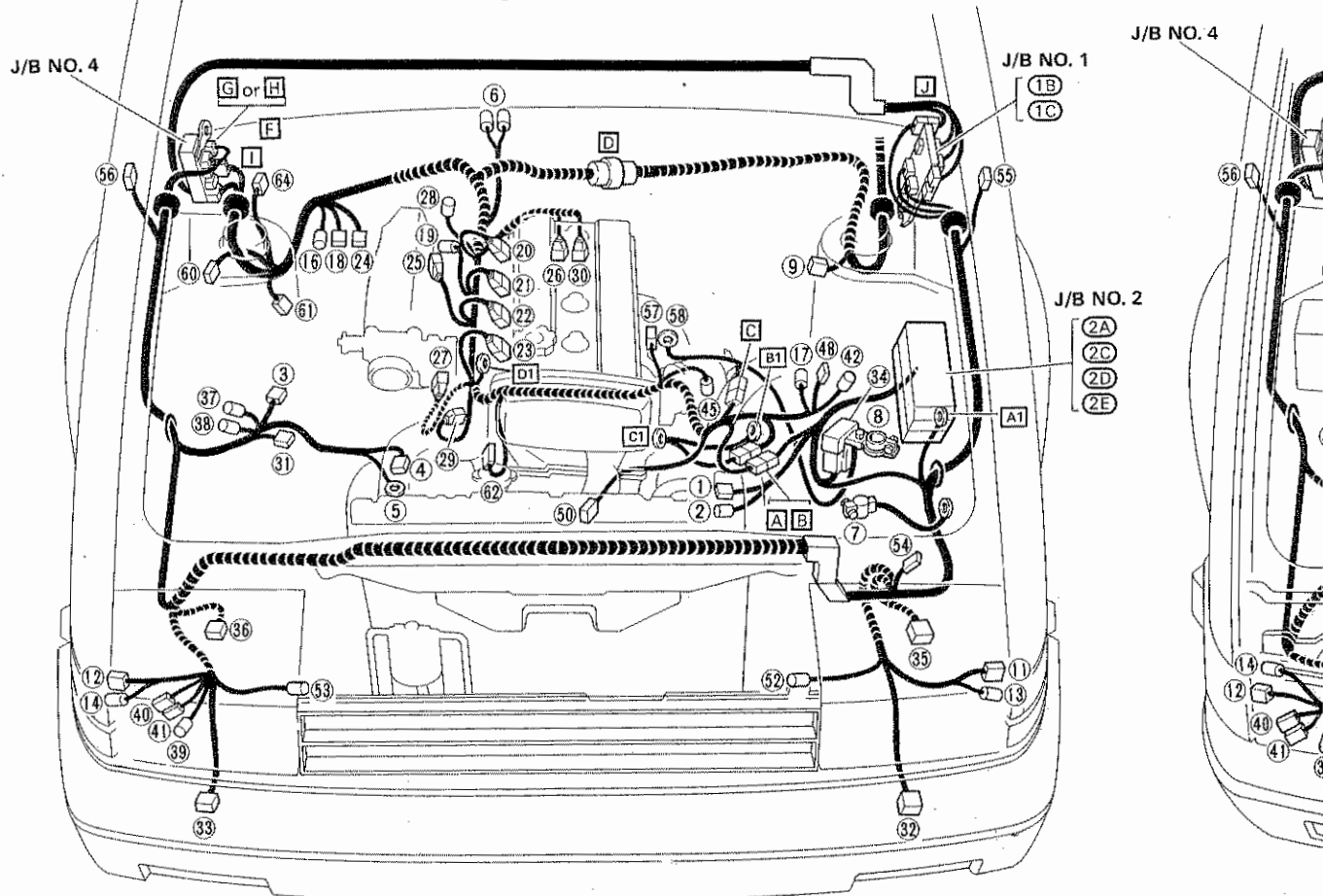
Indicator Lamp
Wiper S/W
+
-
H Sender
Map
Lamp
Lamp LH
Lamp RH
Room Lamp
Room Lamp S/W

- 13 Parking Brake S/W
- 14 Rear Combination Lamp LH
- 15 Rear Combination Lamp RH
- 16 Rear Wiper Motor
- 17 Sun Roof S/W and Map Lamp
- 1D Floor Wire and J/B No. 1
- K } Floor Wire and Cowl Wire
- L } (Right Kick Panel)
- M Roof Wire and Cowl Wire (Instrument Panel Right)
- S Floor No. 2 Wire and Cowl Wire (Left Kick Panel)
- T Defogger Wire and Floor Wire (2 Door)

- U Back Door No. 1 Wire and Floor Wire (3 Door, Roof Right Rear)
- V Back Door No. 2 (or No. 1) Wire and Defogger Wire (3 Door, Back Door Right)
- W Back Door No. 2 Wire and Back Door No. 1 Wire (3 Door, Back Door Right)
- X Licence Wire and Floor Wire (Back Panel Right)
- E1 Ground J/B No. 1 Set Bolt
- F1 Ground J/B No. 4 Set Bolt
- G1 Ground Left Rear Pillar (2 Door)
Ground Back Door Left (3 Door)
- H1 Ground Back Panel Center

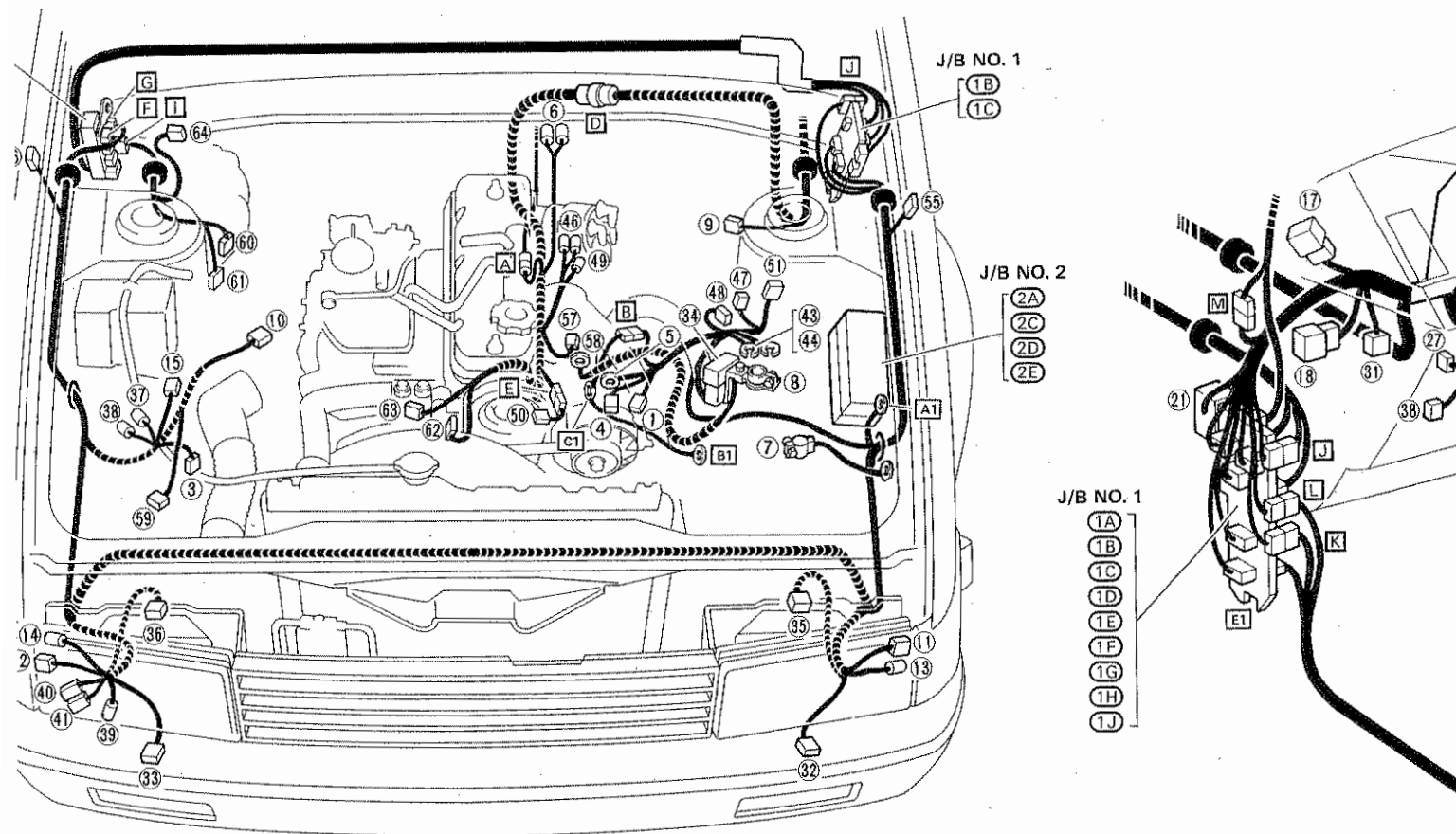
ELECTRICAL WIRING ROUTING AE86L (LHD)

[EFI]



- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|-------------------------|-------------------|----------------|---|---------------------------|------------------------------|-----------------------------|-------------------------|--------------|--|--|---------------------------|---------------------------|----------------------------|------------------------------|---------------------------------|---------------------------------|---------------------|---|------------------|---|---|-------------------------|----------------------|-------------------------------|-----------------------|---------------------|-----------|--------------------------|--------------------------|-----------------------------|-----------------------------|--------------------|---------------|---------------|---------------------------|---------------------------|--------------|----------------|---|-----------|-------------------|---|-------|---|----------------------------------|---------------------------|----------------------|--------------------------|-------------|---------------------|---------------------|-----------------------|----------------------|----------------------|-------------|----------------------|----------------------|-----------------|-----------------------|--------------------------|----------------|--------------------|----|--------------------|----|----|----|
| ① A/C Compressor | ② A/C Compressor Sensor | ③ A/C Idle-up VSV | ④ } Alternator | ⑤ | ⑥ Back-up Light S/W (M/T) | ⑦ Battery $\ominus$ Terminal | ⑧ Battery $\oplus$ Terminal | ⑨ Brake Fluid Level S/W | ⑩ Carburetor | ⑪ Clearance and Side Turn Signal Lamp LH (GEN) | ⑫ Clearance and Side Turn Signal Lamp RH (GEN) | ⑬ Clearance Lamp LH (EUR) | ⑭ Clearance Lamp RH (EUR) | ⑮ Economy Meter Vacuum S/W | ⑯ EFI Check Engine Connector | ⑰ EFI Co Control Resistor (EUR) | ⑱ EFI Fuel Pump Check Connector | ⑲ EFI In Air Sensor | ⑳ | ㉑ } EFI Injector | ㉒ | ㉓ | ㉔ EFI Service Connector | ㉕ EFI Start Injector | ㉖ EFI Start Injector Time S/W | ㉗ EFI Throttle Sensor | ㉘ EFI Vacuum Sensor | ㉙ EFI VSV | ㉚ EFI Water Temp. Sensor | ㉛ Electrical Idle-up VSV | ㉜ Front Turn Signal Lamp LH | ㉝ Front Turn Signal Lamp RH | ㉞ Fusible Link Box | ㉟ Headlamp LH | ㊱ Headlamp RH | ㊲ Headlight Cleaner Motor | ㊳ Headlight Cleaner Relay | ㊴ Horn (EUR) | ㊵ } Horn (GEN) | ㊶ | ㊷ Igniter | ㊸ } Ignition Coil | ㊹ | ㊺ IIA | ㊻ Neutral Start S/W and Back-up Light S/W (A/T) | ㊼ Noise Filter (CHARGING SYSTEM) | ㊽ Noise Filter (IGNITION) | ㊾ O/D Solenoid (A/T) | ㊿ Oil Pressure S/W (GEN) | 1 Regulator | 2 Retractor Motor L | 3 Retractor Motor R | 4 Retractor Relay (S) | 5 Side Turn Signal L | 6 Side Turn Signal R | 7 } Starter | 8 Washer Motor (w/t) | 9 Washer Motor (w/c) | 10 Washer Valve | 11 Water Temp. Sensor | 12 Water Temp. S/W (A/T) | 13 Wiper Motor | 1B } Engine Room M | 1C | 2A } Engine Room M | 2C | 2D | 2E |
|------------------|-------------------------|-------------------|----------------|---|---------------------------|------------------------------|-----------------------------|-------------------------|--------------|--|--|---------------------------|---------------------------|----------------------------|------------------------------|---------------------------------|---------------------------------|---------------------|---|------------------|---|---|-------------------------|----------------------|-------------------------------|-----------------------|---------------------|-----------|--------------------------|--------------------------|-----------------------------|-----------------------------|--------------------|---------------|---------------|---------------------------|---------------------------|--------------|----------------|---|-----------|-------------------|---|-------|---|----------------------------------|---------------------------|----------------------|--------------------------|-------------|---------------------|---------------------|-----------------------|----------------------|----------------------|-------------|----------------------|----------------------|-----------------|-----------------------|--------------------------|----------------|--------------------|----|--------------------|----|----|----|

[Except EFI]



ter (IGNITION SYSTEM)
 noid (A/T)
 ure S/W (or Oil Pressure Sender)
 r
 r Motor LH (Saudi Arabia)
 r Motor RH (Saudi Arabia)
 r Relay (Saudi Arabia)
 r Signal Lamp LH (EUR)
 r Signal Lamp RH (EUR)

Motor (w/Headlight Cleaner)
 Motor (w/o Headlight Cleaner)
 Valve
 Temp. Sender
 Temp. S/W (OVER DRIVE)
 Motor

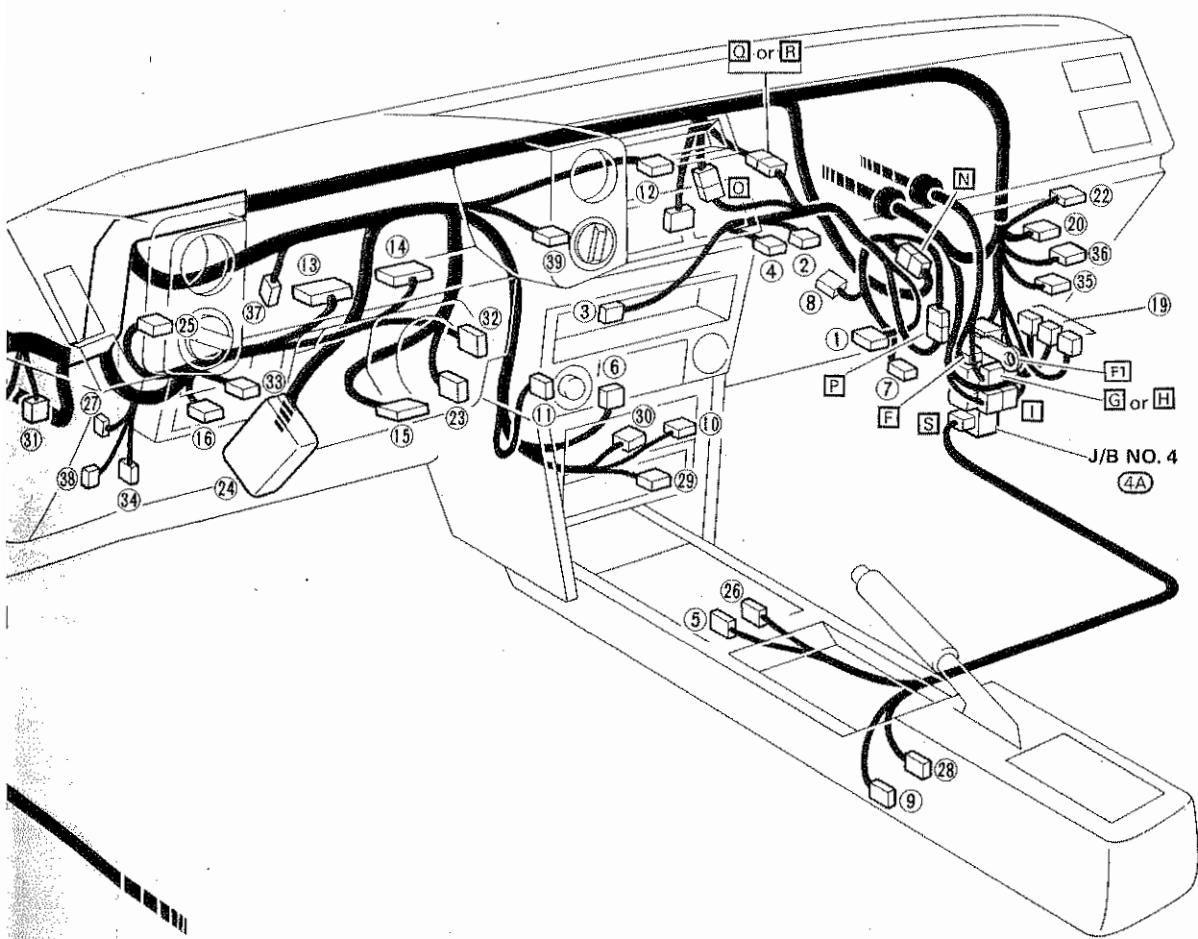
Engine Room Main Wire and J/B No. 1

Engine Room Main Wire and J/B No. 2

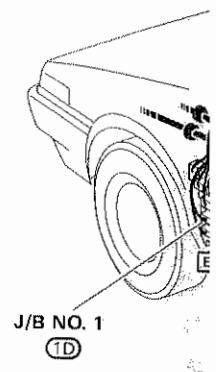
- A** Engine Wire and Engine Room Main Wire
- B** Engine Wire and Ground Wire (EFI, Engine Left)
- C** Engine Room Main Wire and Ground Wire (Ex. EFI, Engine Left)
- D** Engine Wire and Engine No. 2 Wire (EFI, Engine Left)
- E** Engine Wire and Cowl Wire (Engine Rear)
- F** Oil Pressure Sender (or S/W) Wire and Engine Wire (Ex. EFI, Engine Left)
- G** Engine Room Main Wire and Cowl Wire (Right Kick Panel)
- H** Engine Wire and Cowl Wire (EFI, Right Kick Panel)
- I** Cowl Wire and Engine Room Main Wire (Left Kick Panel)
- J** Back-up Light S/W Wire and Engine Wire (Switzerland)
- A1** Ground Left Fender
- B1** Ground Left Fender Apron
- C1** Ground Engine Left
- D1** Ground Under Chamber

- ① A/C Amplifier
- ② A/C Pressure S/W
- ③ A/C S/W (or Volume S/W)
- ④ A/C Thermistor
- ⑤ A/T Indicator Light
- ⑥ Blower S/W
- ⑦ Blower Motor
- ⑧ Blower Resistor
- ⑨ Buckle S/W (Middle East)
- ⑩ Chime (Speed Warning, Middle East)
- ⑪ Cigarette Lighter
- ⑫ Clock
- ⑬ } Combination Meter
- ⑭ } Combination S/W
- ⑮ Defogger S/W
- ⑯ Diode (HEADLIGHT CLEANER)
- ⑰ Diode (REAR FOG LIGHT and HEADLIGHT)
- ⑱ ECU (EFI)
- ⑲ EFI Circuit Opening Relay
- ⑳ EFI Main Relay
- ㉑ Hazard Red Indicator Light R (West Germany)
- ㉒ Ignition S/W
- ㉓ J/B No. 3

LHD



[2 Door]

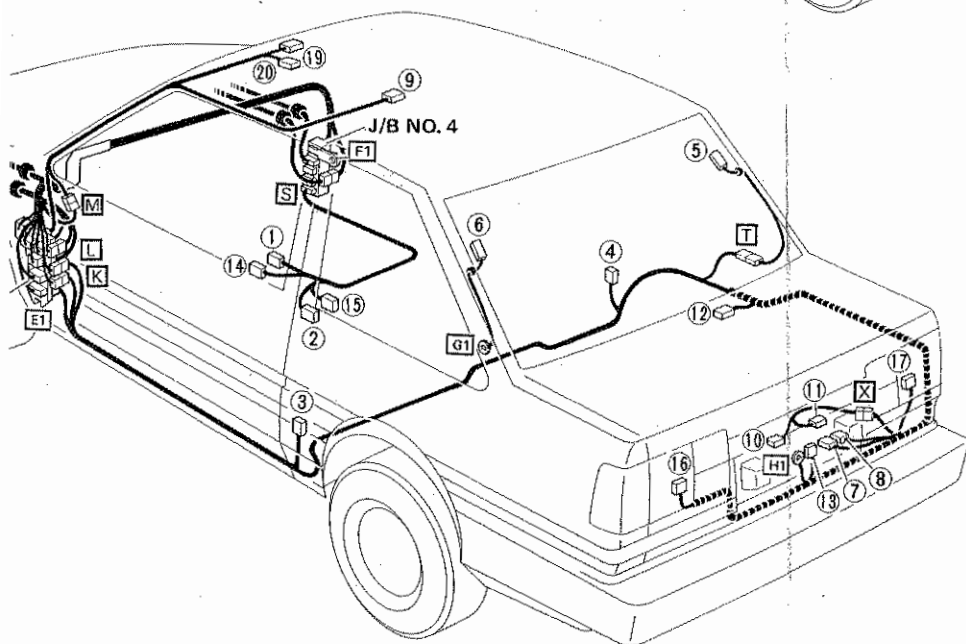
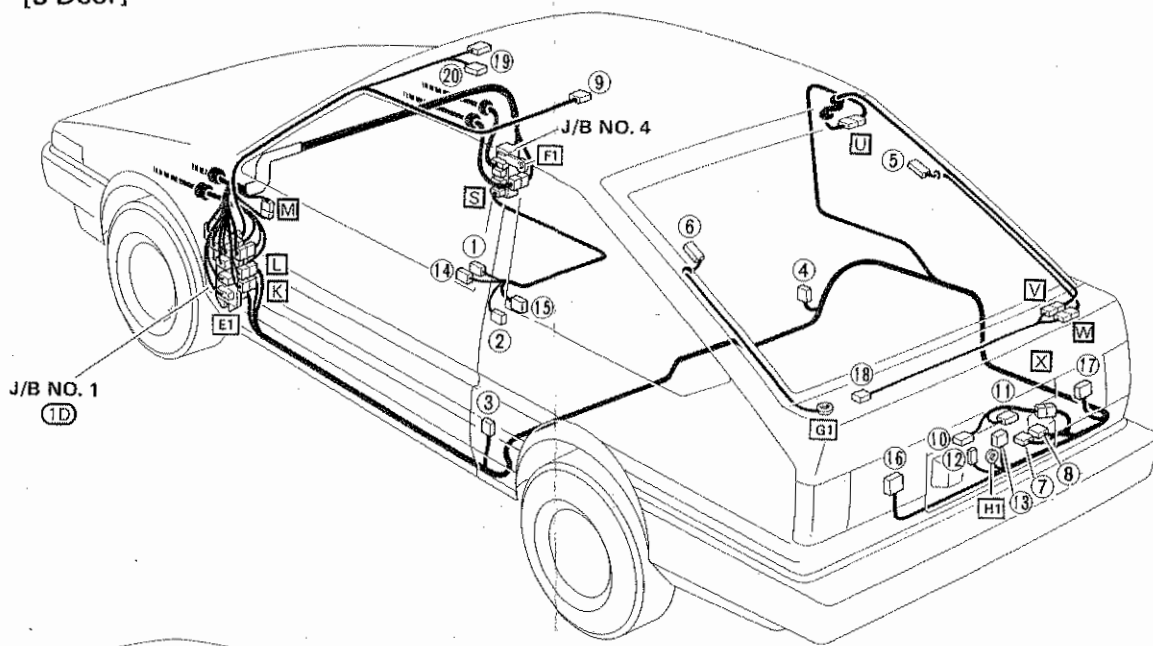


- 25 Light Control S/W and Rheostat
- 26 O/D Main S/W (A/T)
- 27 O/D Relay (A/T)
- 28 Parking Brake S/W
- 29 } Radio and Stereo Player
- 30 } Radio and Stereo Player
- 31 Rear Fog Light Relay
- 32 Rear Fog Light S/W
- 33 Rear Wiper S/W
- 34 Speaker LH
- 35 Speaker RH
- 36 Starter Idle-up Computer
- 37 Stop Light S/W
- 38 Turn Signal Flasher
- 39 Wiper and Washer S/W
- 1A Roof Wire and J/B No. 1
- 1B } Engine Room Main Wire and J/B No. 1
- 1C } Engine Room Main Wire and J/B No. 1
- 1D Floor Wire and J/B No. 1
- 1E } Cowl Wire and J/B No. 1
- 1F } Cowl Wire and J/B No. 1
- 1G } Cowl Wire and J/B No. 1
- 1H } Cowl Wire and J/B No. 1
- 1J } Cowl Wire and J/B No. 1
- 4A Cowl Wire and J/B No. 4

- F } Engine Room Main Wire and Cowl Wire (Right Kick Panel)
- G } Engine Room Main Wire and Cowl Wire (Right Kick Panel)
- H } Engine Room Main Wire and Cowl Wire (Right Kick Panel)
- I Engine Wire and Cowl Wire (Right Kick Panel)
- J Engine Room Main Wire and Cowl Wire (Left Kick Panel)
- K } Floor Wire and Cowl Wire (Left Kick Panel)
- L } Floor Wire and Cowl Wire (Left Kick Panel)
- M Roof Wire and Cowl Wire (W/Sun Roof, Under Left Front Pillar)
- N Heater Wire and Cowl Wire (Instrument Panel Right)
- O A/C Wire and Cowl Wire (Instrument Panel Right)
- P Heater Wire and A/C Wire (Instrument Panel Right)
- Q A/C Wire and Cowl Wire (Instrument Panel Right)
- R A/C Wire and Cowl Wire (Instrument Panel Right)
- S Floor No. 2 Wire and Cowl Wire (Right Kick Panel)
- E1 Ground J/B No. 1 Set Bolt
- F1 Ground J/B No. 4 Set Bolt

- 1 A/T Indicator
- 2 Buckle S/W
- 3 } Courtesy S/W
- 4 } Courtesy S/W
- 5 Defogger
- 6 Defogger
- 7 Fuel Pump
- 8 Fuel Sender
- 9 Interior Lamp
- 10 Licence Lamp
- 11 Licence Lamp
- 12 Luggage Room
- 13 Luggage Room
- 14 O/D Main S/W

[3 Door]

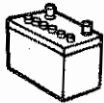


Indicator Lamp
Lamp (Middle East)
Lamp S/W
+
-
Lamp (EF1)
Lamp
Lamp LH
Lamp RH
Room Lamp
Room Lamp S/W
Lamp S/W

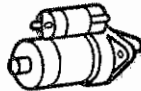
- 19 Parking Brake S/W
- 16 Rear Combination Lamp LH
- 17 Rear Combination Lamp RH
- 18 Rear Wiper Motor
- 19 Sun Roof and Map Lamp S/W
- 20 Sun Roof Motor
- 1D Floor Wire and J/B No. 1
- K } Floor Wire and Cowl Wire
- L } (Left Kick Panel)
- M Roof Wire and Cowl Wire (W/Sun Roof)
- S Floor No. 2 Wire and Cowl Wire
- (Right Kick Panel)
- T Defogger Wire and Floor Wire
- (2 Door, Under Right Rear Pillar)

- U Back Door No. 1 Wire and Floor Wire
- (3 Door, Roof Right Rear)
- V Defogger Wire and Back Door No. 1 (or No. 2) Wire
- (3 Door, Back Door Right)
- W Back Door No. 2 Wire and Back Door No. 1 Wire
- (3 Door, Back Door Right)
- X Licence Wire and Floor Wire
- (Back Panel Right)
- E1 Ground J/B No. 1 Set Bolt
- F1 Ground J/B No. 4 Set Bolt
- G1 Ground Left Rear Pillar (2 Door)
- Ground Back Door Left (3 Door)
- H1 Ground Back Panel Center

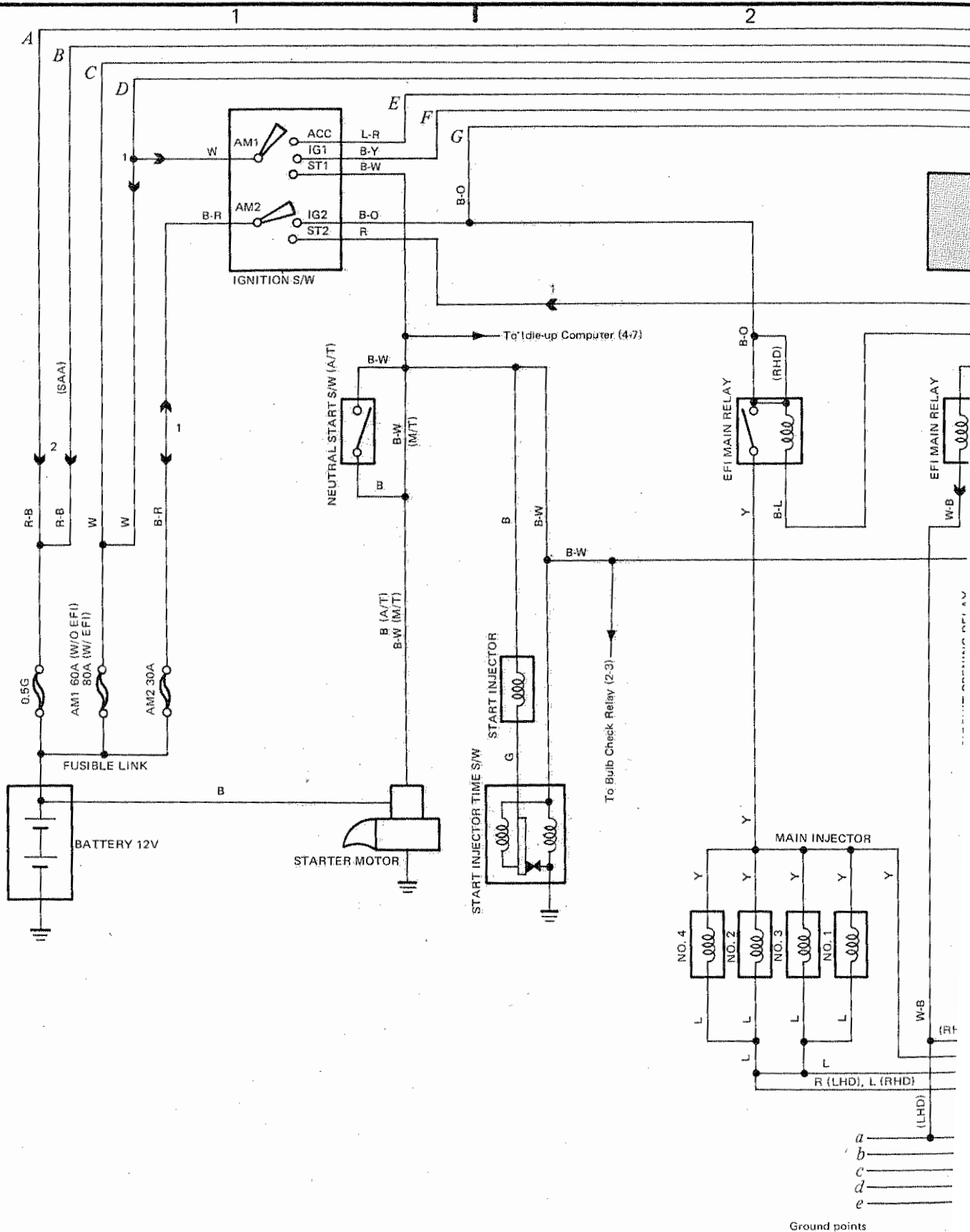
COROLLA ~~FA~~ ELECTRICAL WIRING DIAGRAM -1984 Production Vehicles (Page

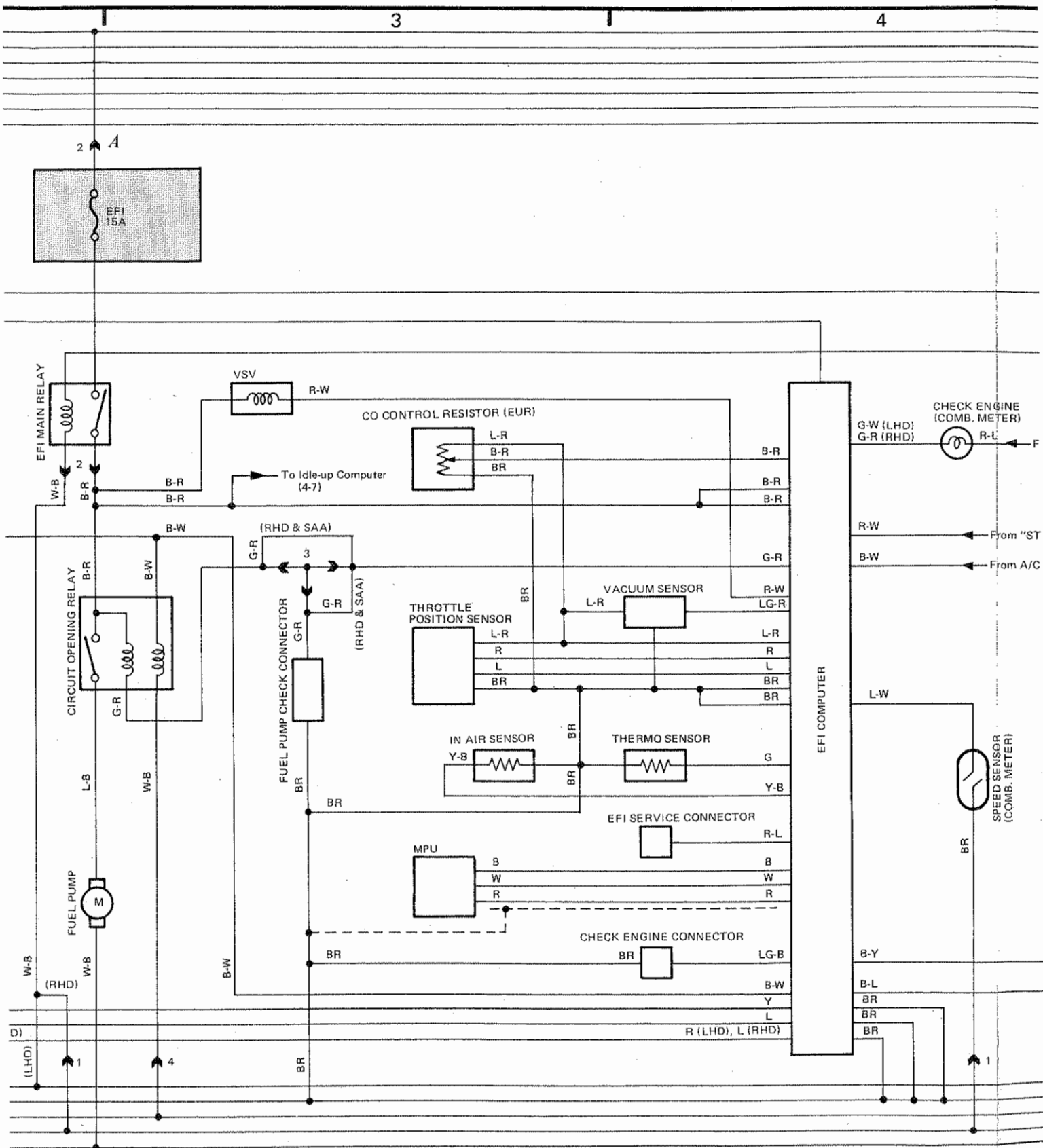


Power Source



Starting





a = Located on left front fender

b = Located on engine block

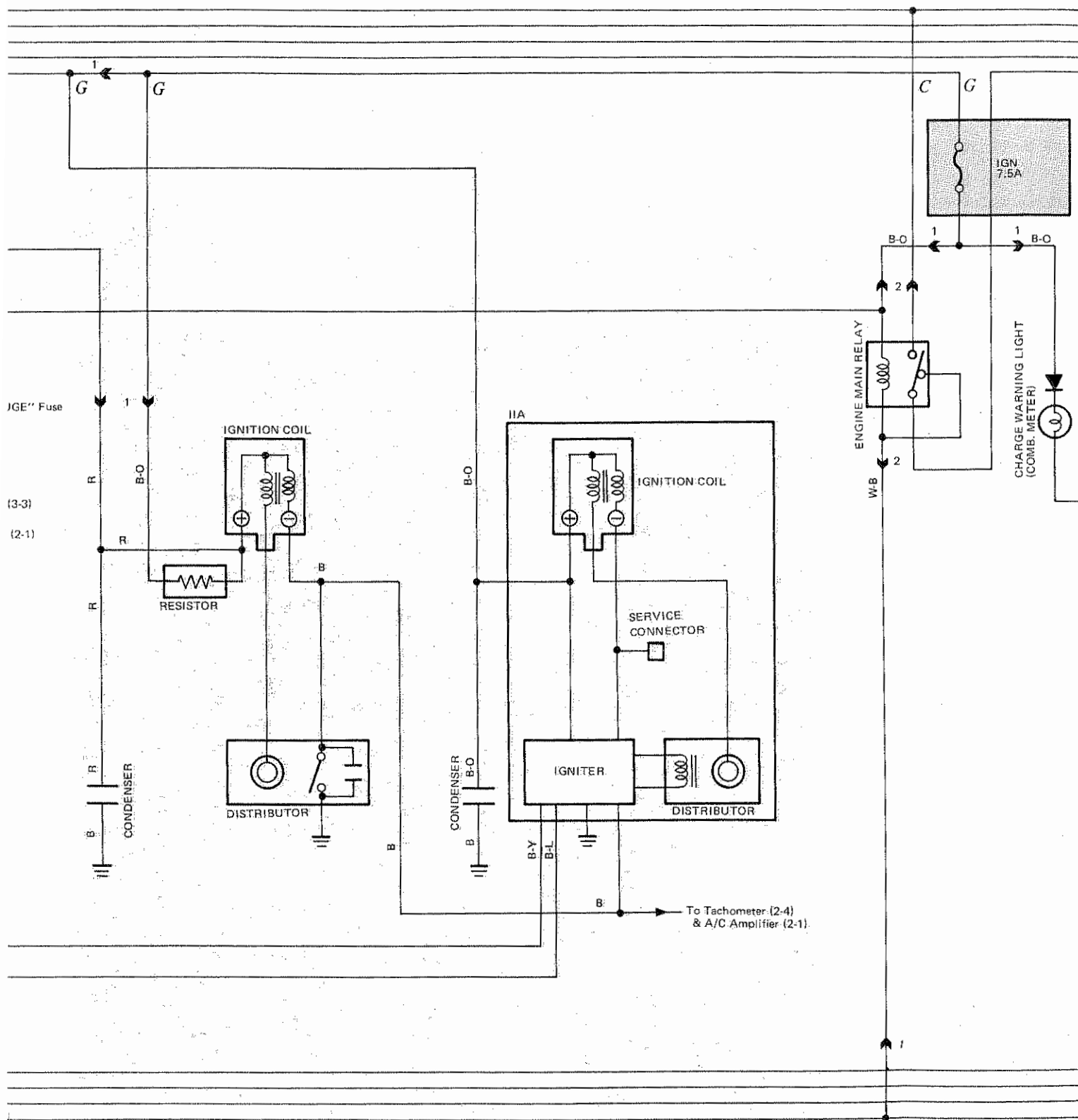
C = LHD: Located under
RHD: Located under



Ignition

5

6



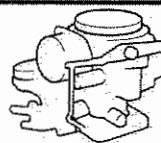
at pillar
pillar

d = LHD: Located under left front pillar
RHD: Located under right front pillar

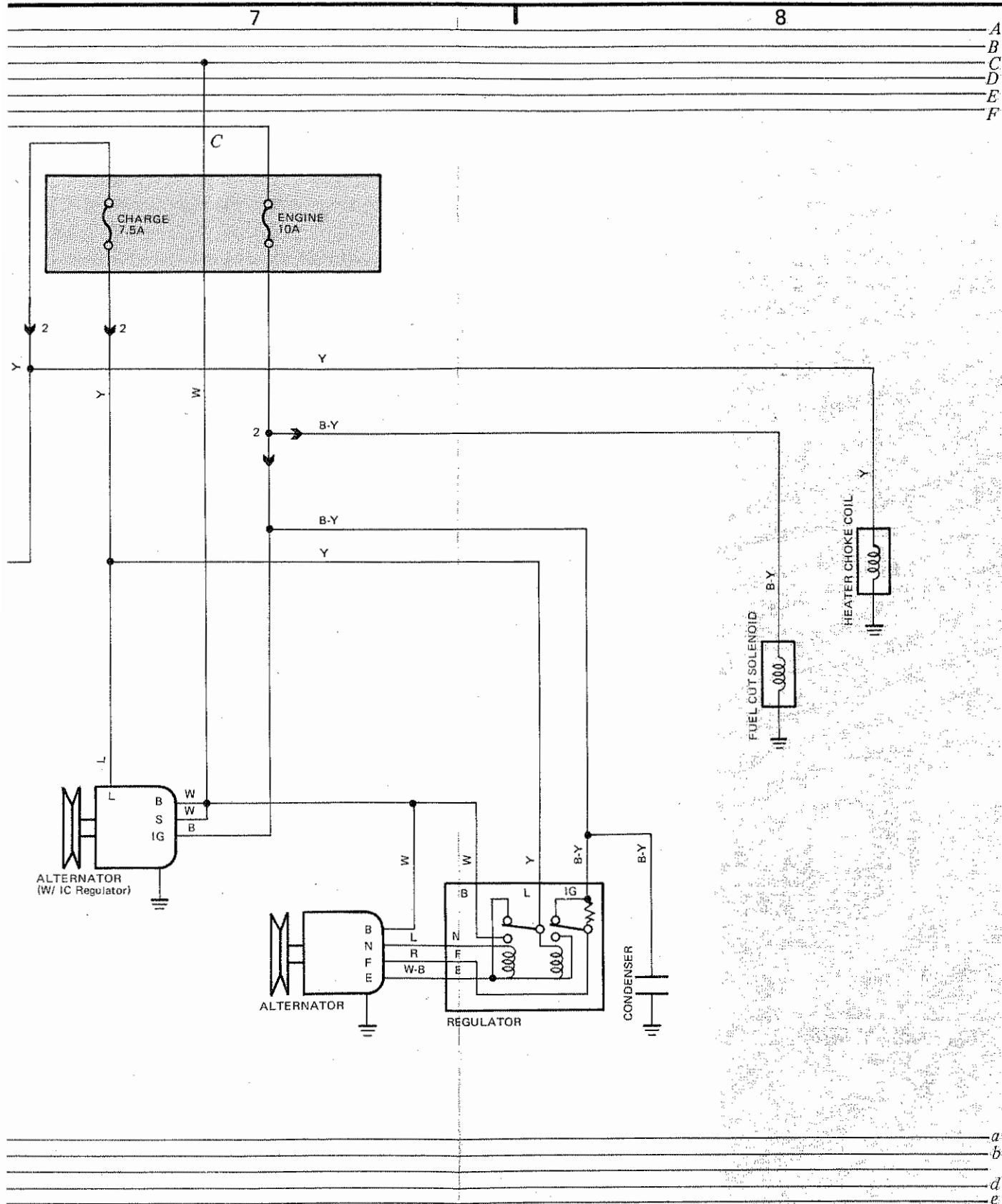
e = Located on center of back panel

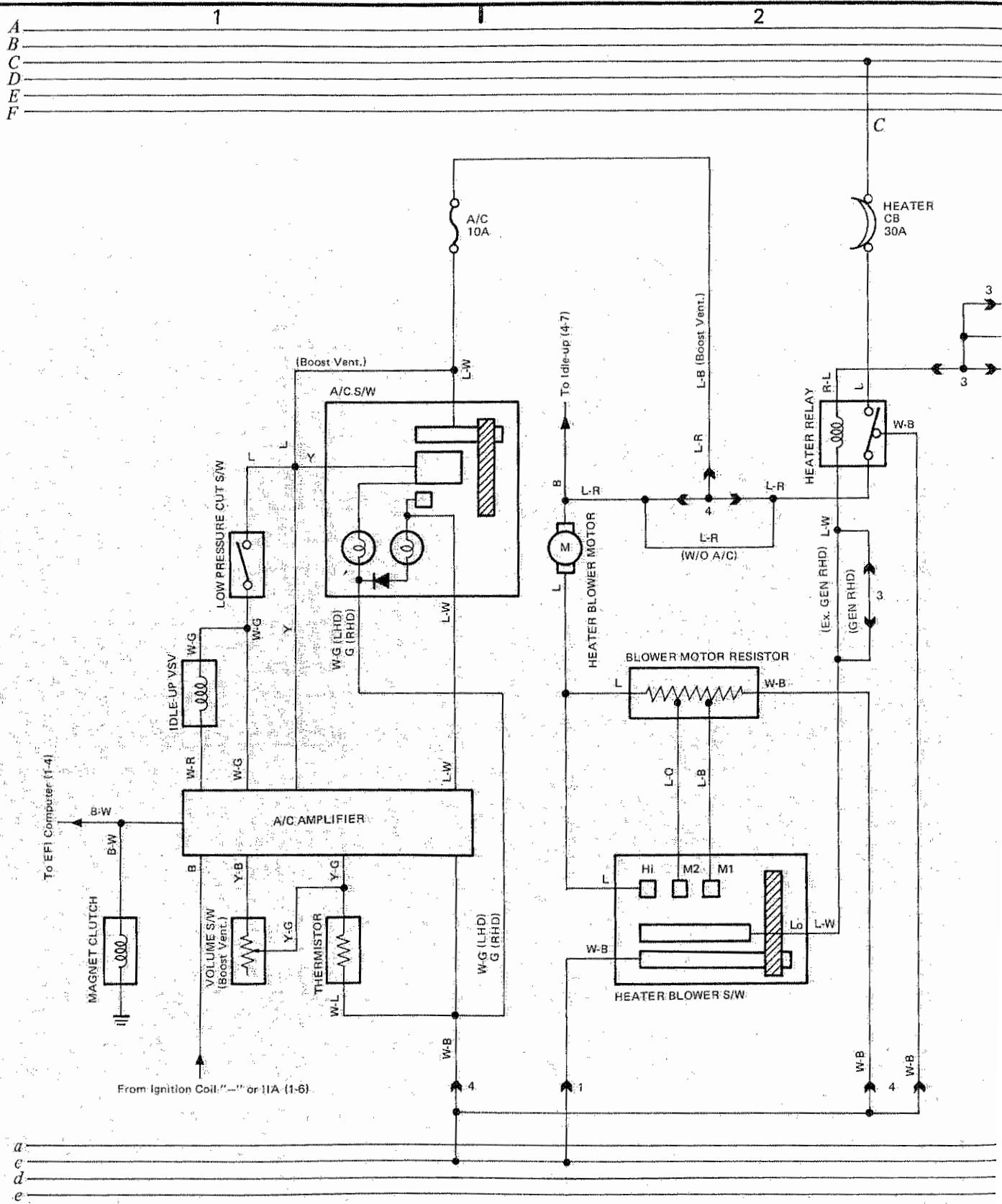


Charging



Carburetor



$$\begin{array}{c} A \\ B \\ C \\ D \\ E \\ F \end{array}$$


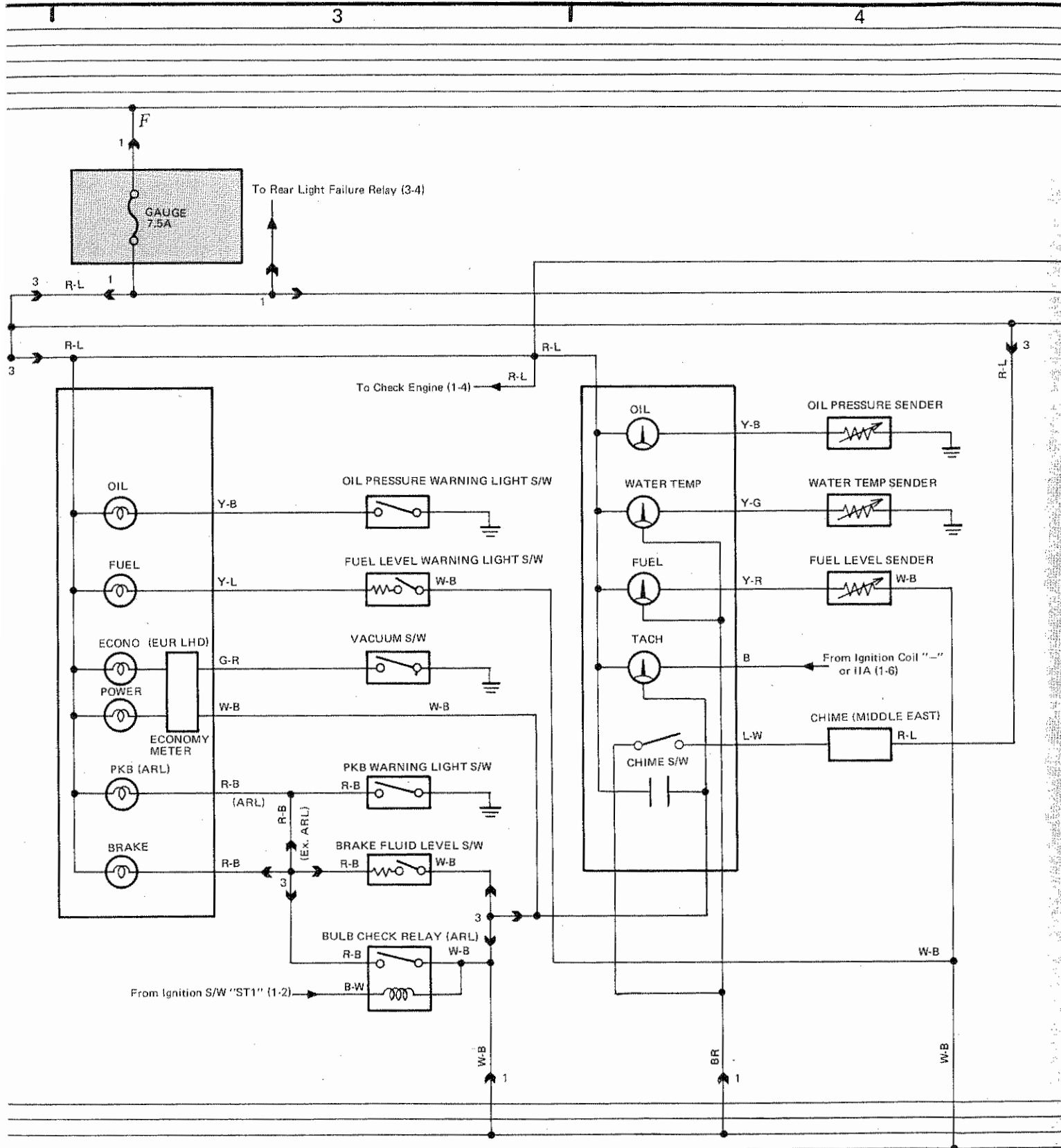
Ground points

***a*^w** Located on left front fender

C = LHD: Located under right front pillar
RHD: Located under left front pillar



Combination Meter



d = LHD: Located under left front pillar
RHD: Located under right front pillar

e = Located on center of back panel



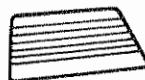
Back-up Light



Seat Belt



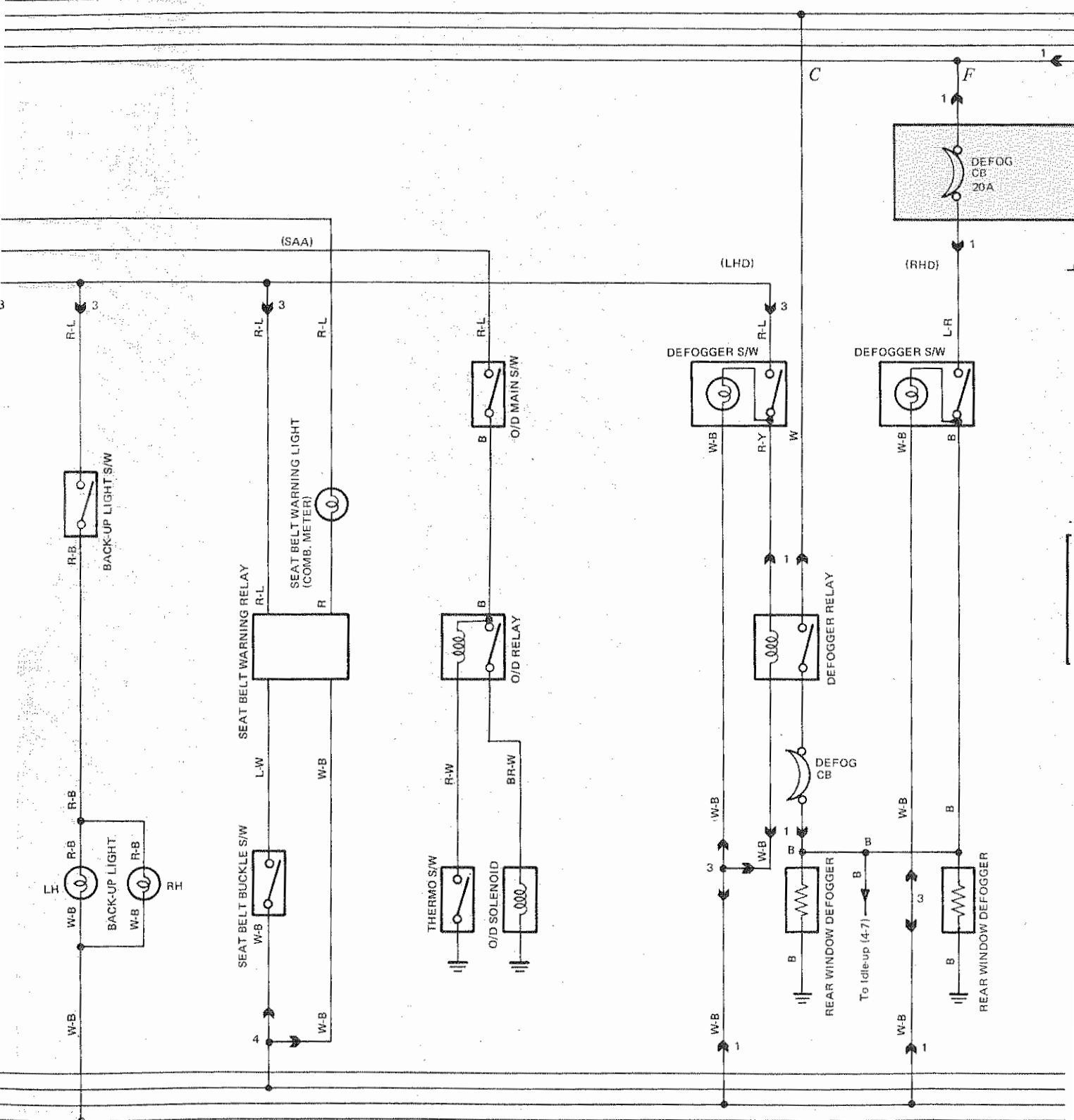
Overdrive

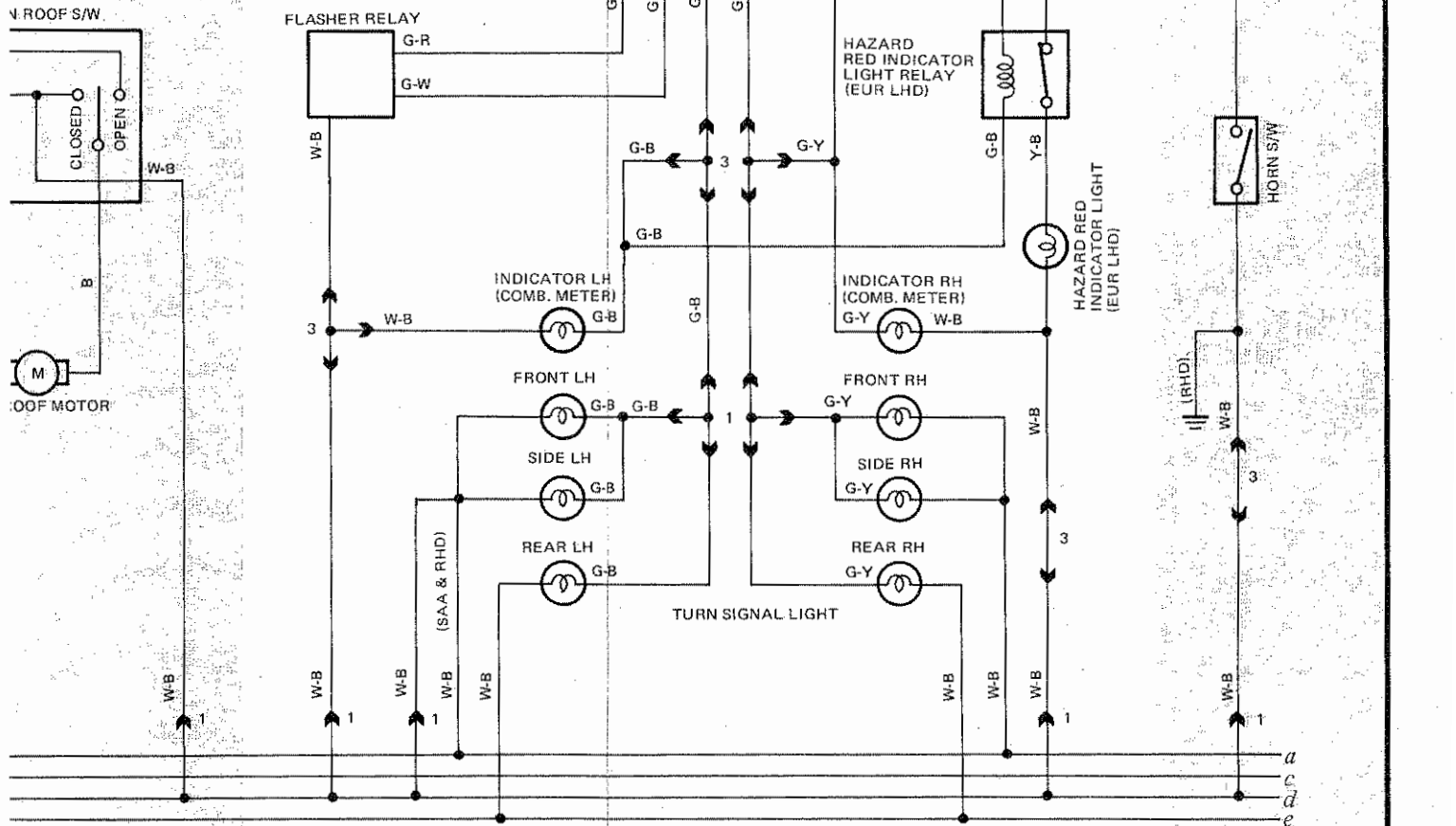


Defogger

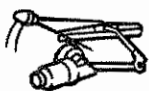
5

6

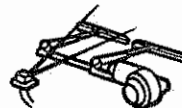




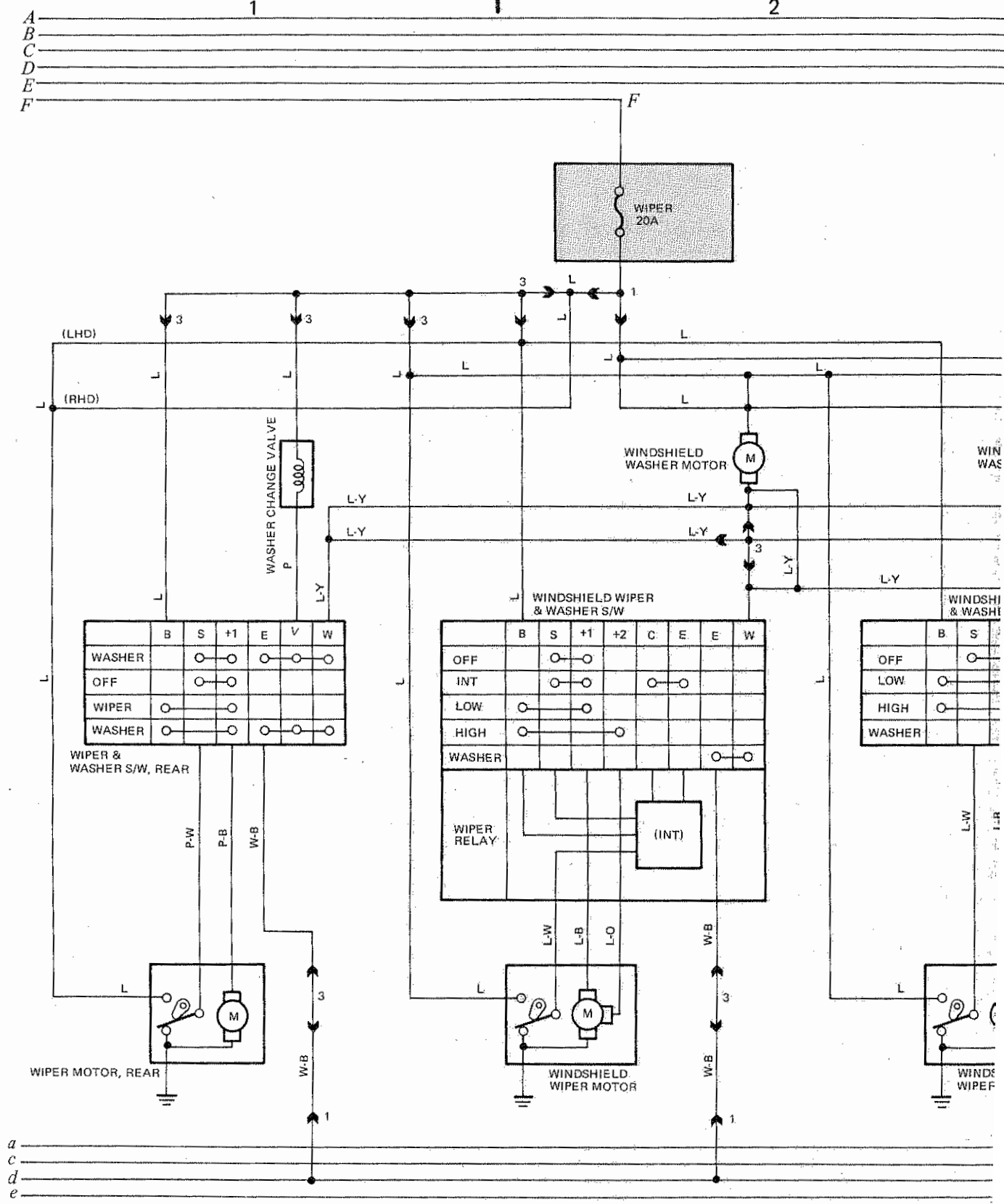
COROLLA FR (Cont'd)



Rear Wiper and Washer



Windshield Wiper and Washer



Ground points

a = Located on left front fender

C = LHD: Located under right front pillar
RHD: Located under left front pillar

Washer

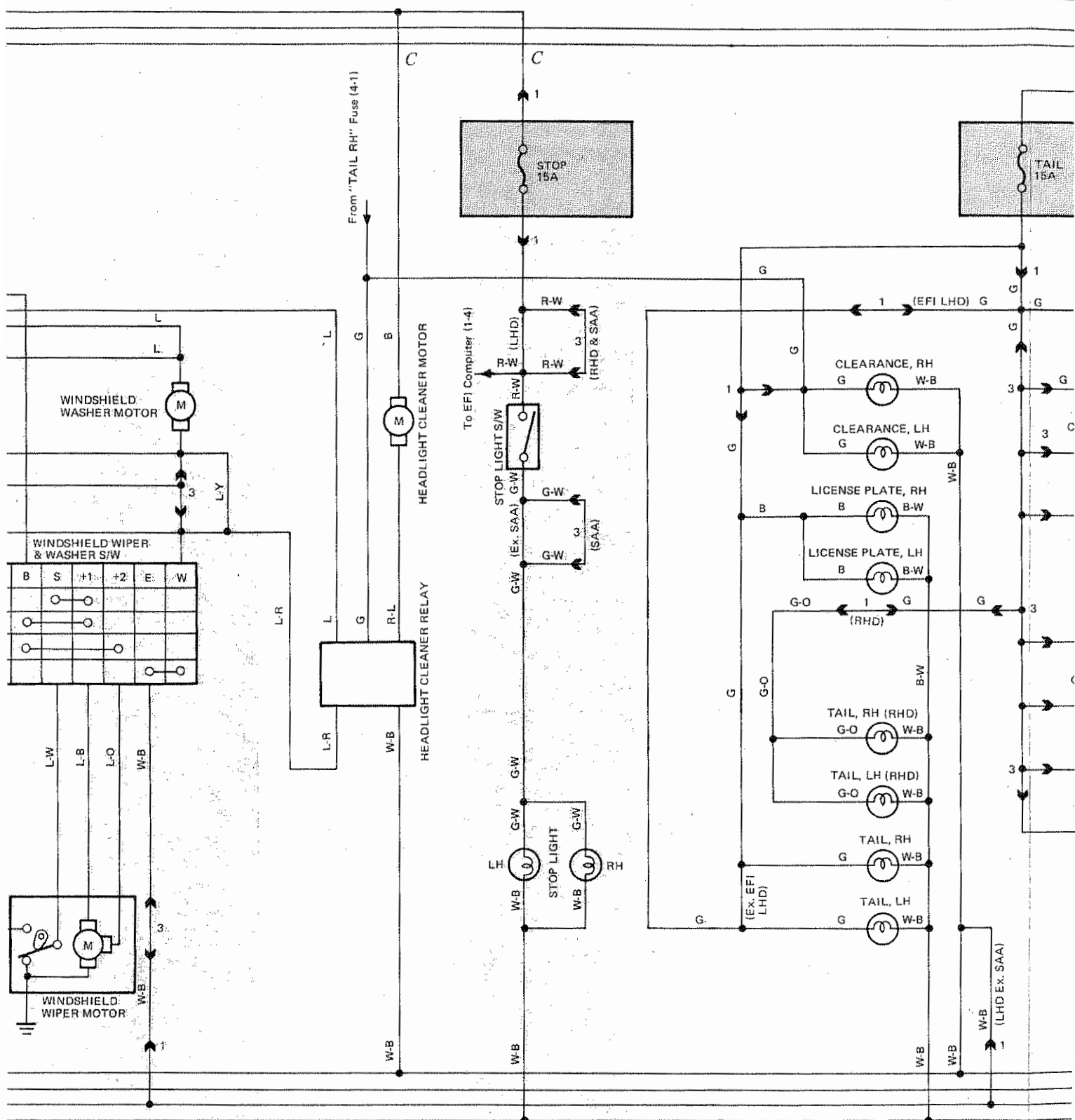
Headlight Cleaner

Stop Light

Tail

3

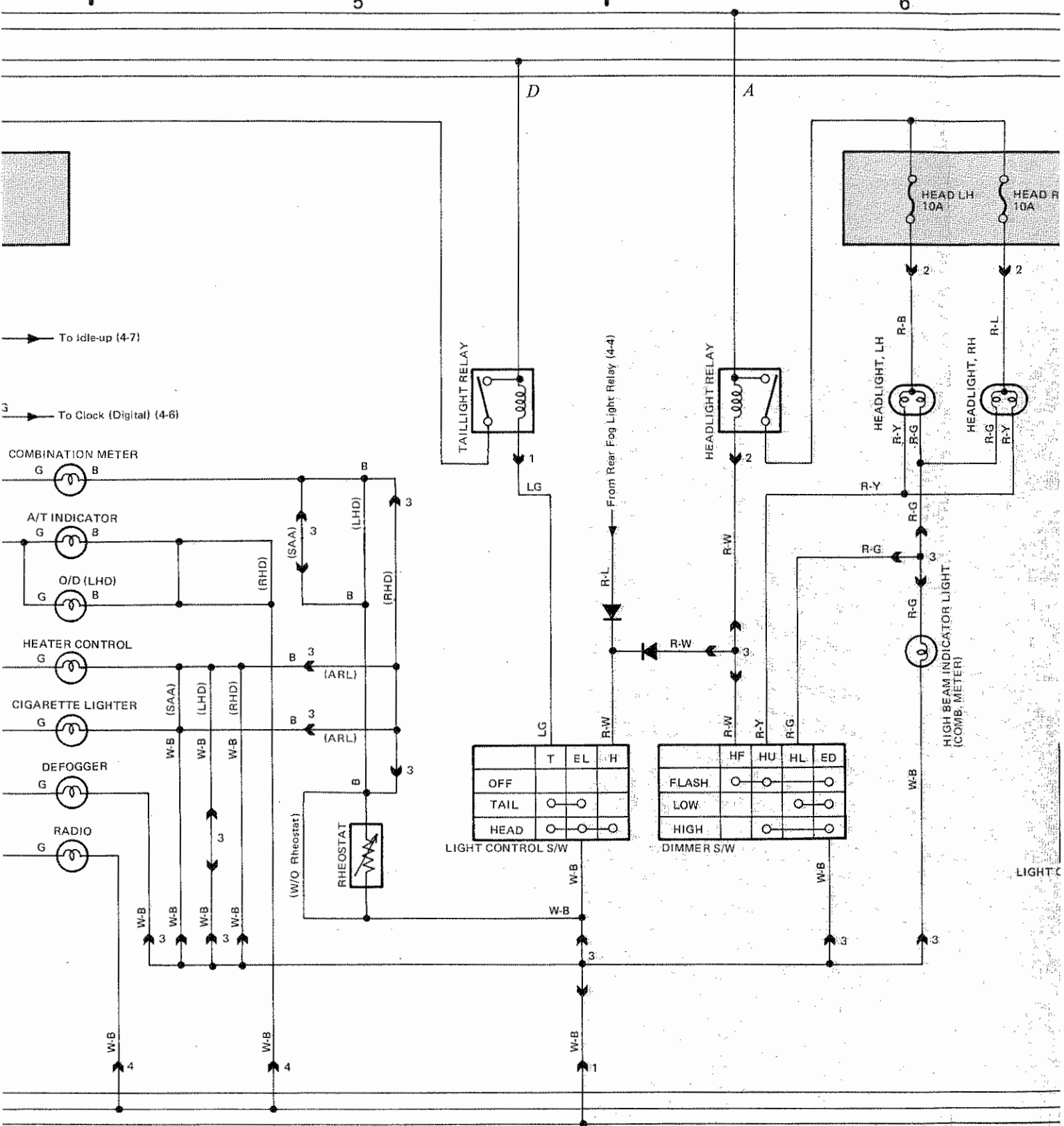
4



piller
piller

d = LHD: Located under left front pillar
RHD: Located under right front pillar

e = Located on center of back panel

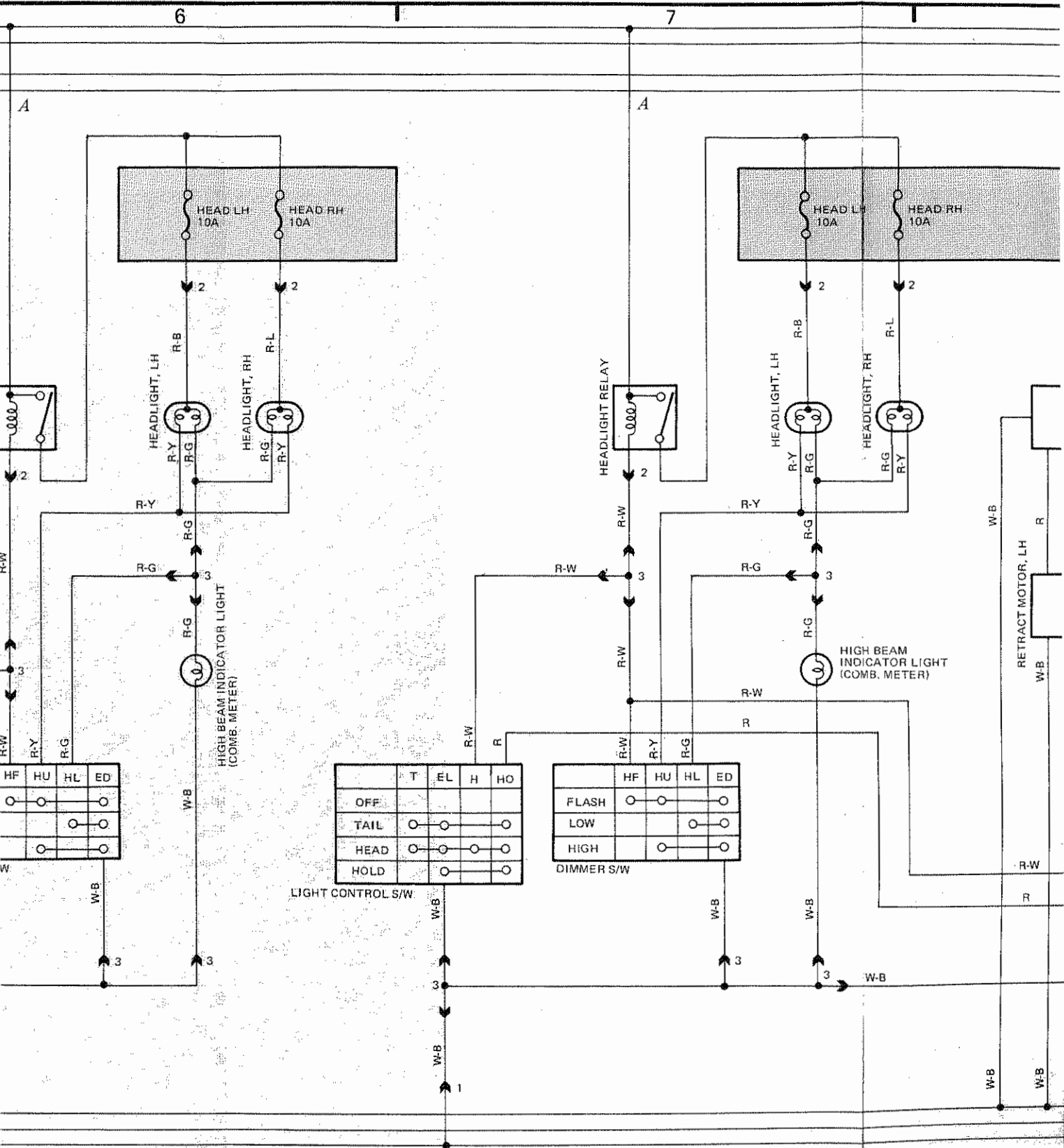




Headlight (Ex. Saudi Arabia and W. Germany)

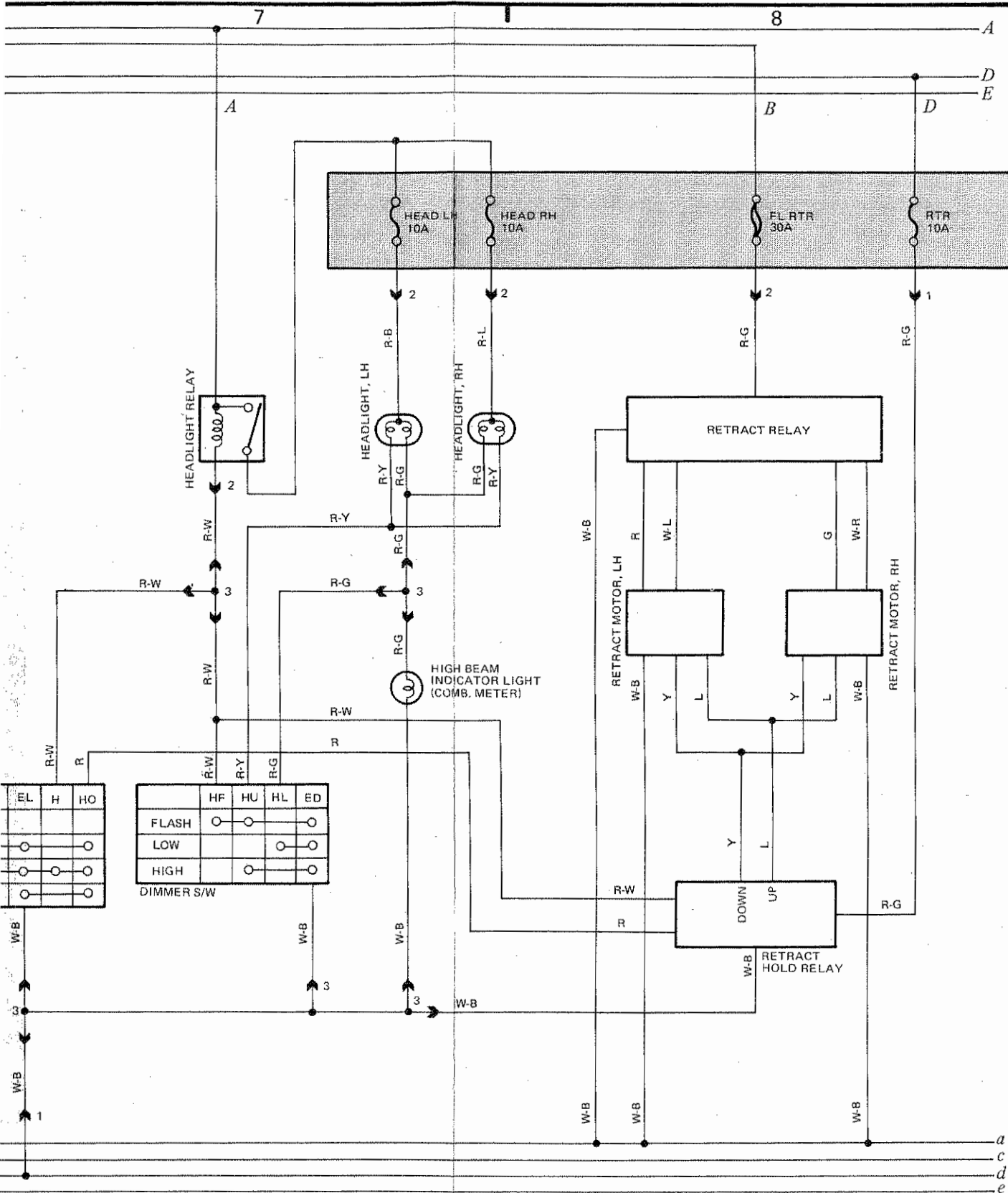


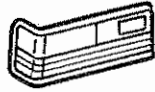
Headlight (For Saudi Arabia)



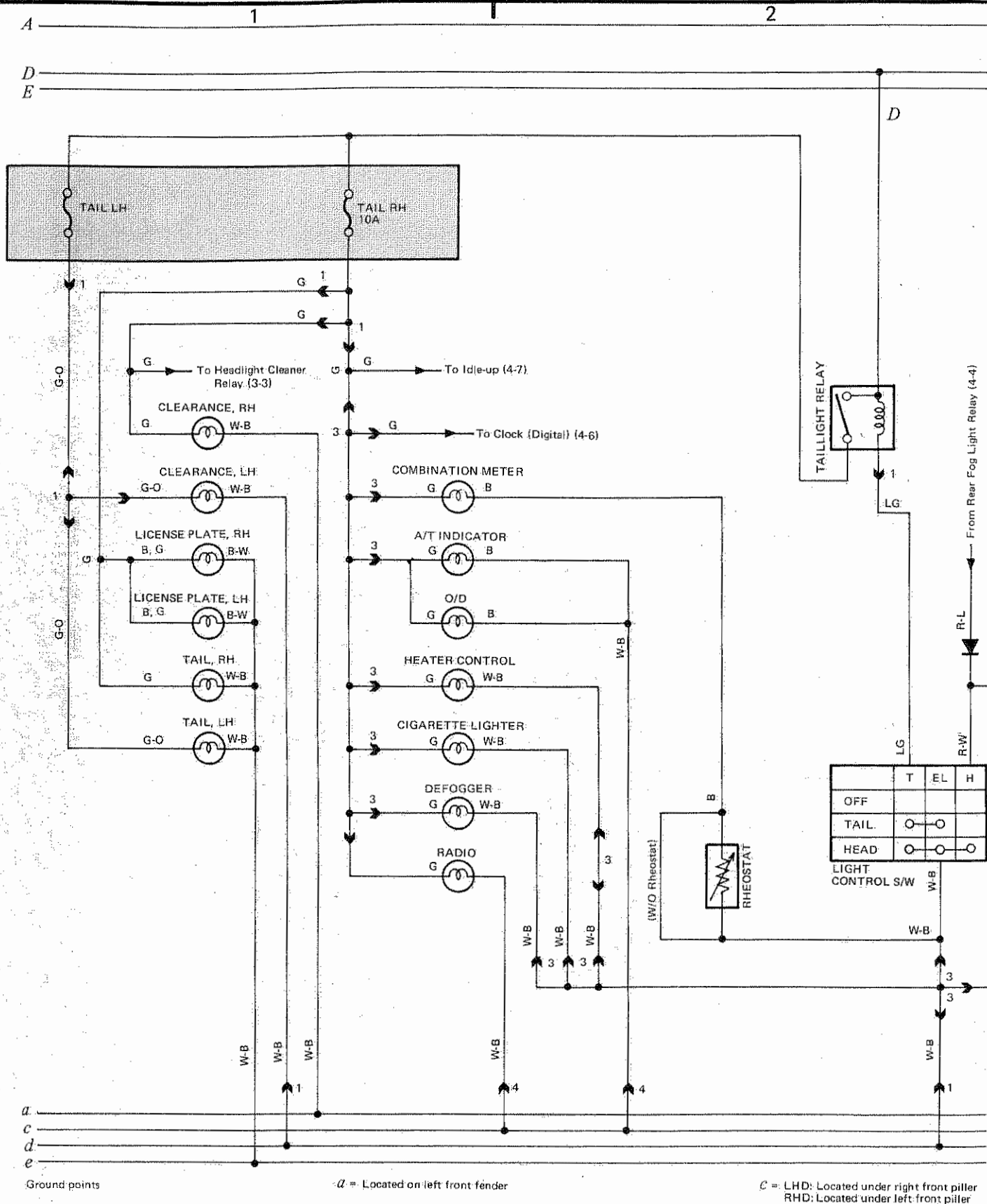


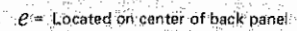
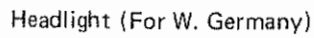
Headlight (For Saudi Arabia)





Taillight and Illumination (For W. Germany)







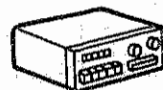
Interior Light



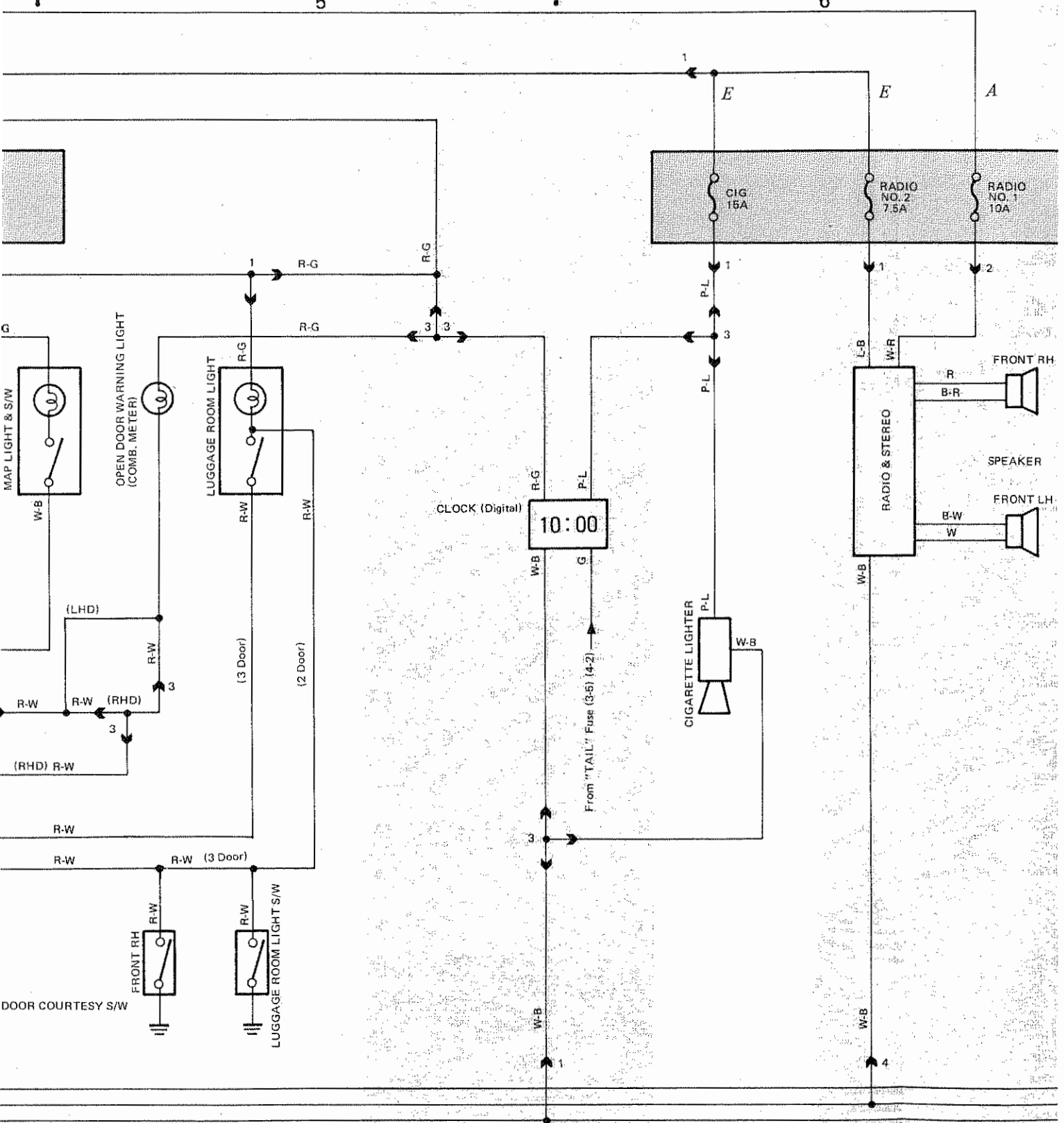
Clock



CIG. Lighter



Radio and Stereo





Idle-up

7

8

