



TOYOTA

ELECTRICAL WIRING DIAGRAM

1989 Commercial Vehicles

FOREWORD

This booklet contains electrical wiring diagrams for all commercial vehicles of Toyota vehicles except USA and Canada.

Each wiring diagram is shown by simple fuse circuit, short line, and rough sketch so as to make it easy to see. Please use this booklet together with body repair manuals for repair or inspection of electrical problems.

All information contained in this booklet is based on the latest information available at the time of publication. Toyota reserves the right to make changes without notice.

TOYOTA MOTOR CORPORATION

AVANT-PROPOS

Le présent livret contient les schémas de câblage pour toutes les voitures commerciaux de Toyota, sauf pour les E.U.A. et le Canada.

Afin de faciliter la compréhension, chaque schéma de câblage est présenté sous forme de circuit simple de fusible et du fil court et dessiné sommairement. Lors d'une utilisation de ce livret pour la réparation ou l'inspection des pannes électriques, prière de consulter les manuels d'entretien et de réparation de la carrosserie.

Tous les renseignements donnés dans ce livret ont été mis à jour au moment de l'impression. Cependant, nous reservons le droit de procéder à tout moment et sans préavis à des modifications.

TOYOTA MOTOR CORPORATION

1989 TOYOTA ELECTRICAL WIRING DIAGRAM

COMMERCIAL VEHICLES

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LAND CRUISER (Heavy-Duty) 10

DYNA 11

COASTER 12

HEAVY-DUTY TRUCK 13

Toyota Models Listed in This Manual

For Europe

Model	
Liteace KM30 36 CM30 36	Land Cruiser RJ70 73 LJ70 73 BJ70 71 73 75 FJ62 HJ60 61
Model-F YR21 22 31 (4WD)	
Hilux YN85 90 106 (4WD) 110 (4WD) RN110 (4WD) LN85 90 105 (4WD) 110 (4WD)	
4 Runner RN61	
Hiace YH51V 56V (4WD) 61V 66V (4WD) LH51V 56V (4WD) 61V 66V (4WD)	
Dyna 100 YH81 LH80	
Dyna 150 LY61	
DYNA BU76 84 88 96	

For Australia

Model	
Liteace KM36 YM30 35 CM36	Land Cruiser RJ70 FJ70 73 75 LJ70 BJ70 73 74 HJ75 FJ62 HJ60 61
Tarago YR21 22 31 (4WD)	
Hilux YN85 RN85 90 105 (4WD) 110 (4WD) LN85 106 (4WD) 111 (4WD)	
4 Runner YN63 LN61	
Hiace YH53V 63V 73B LH51V 61V 71B	
Dyna 100 YH81 LH80	
Dyna 150 LY61	
Dyna YU62 BU60 61 65 66 88 91	
Coaster RB20 BB21 HB30	

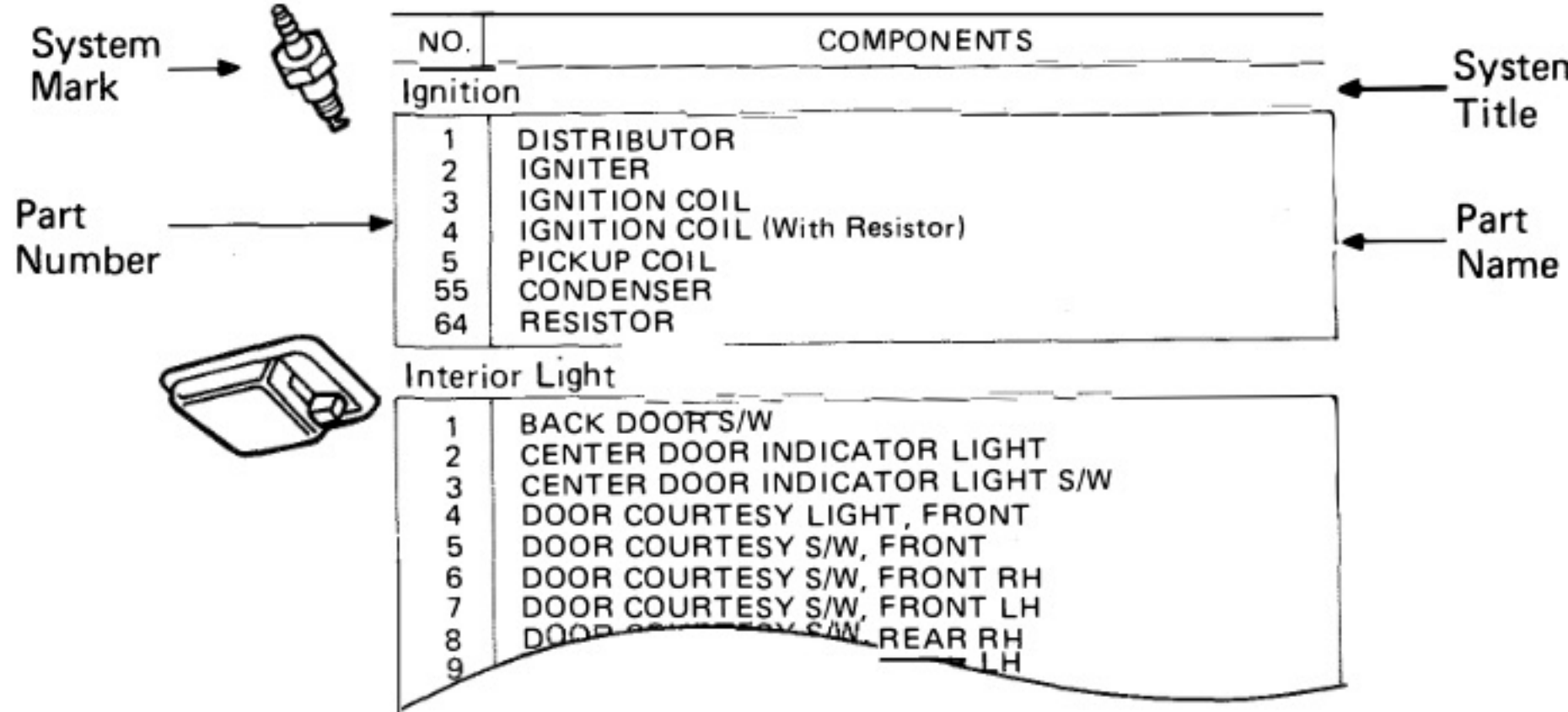
For General

Model	
Liteace KM36 37 CM36	Dyna YU62 63 71 82 RU85 BU60 61 65 66 70 83 84 87 88 91 94 96 WU90 95
Model-F YR21	
Hilux YN80 81 85 86 87 92 106 (4WD) RN80 85 105 (4WD) LN80 85 90 106 (4WD) 111 (4WD)	
4 Runner YN63	
Hiace YH51V 51B 53V 60V 61V 61B 63V 63B LH51V 51B 61V 61B	
Dyna 100 YH81 LH80	
Dyna 150 YY52 61 LY61	
Stout YK110	

INTRODUCTION

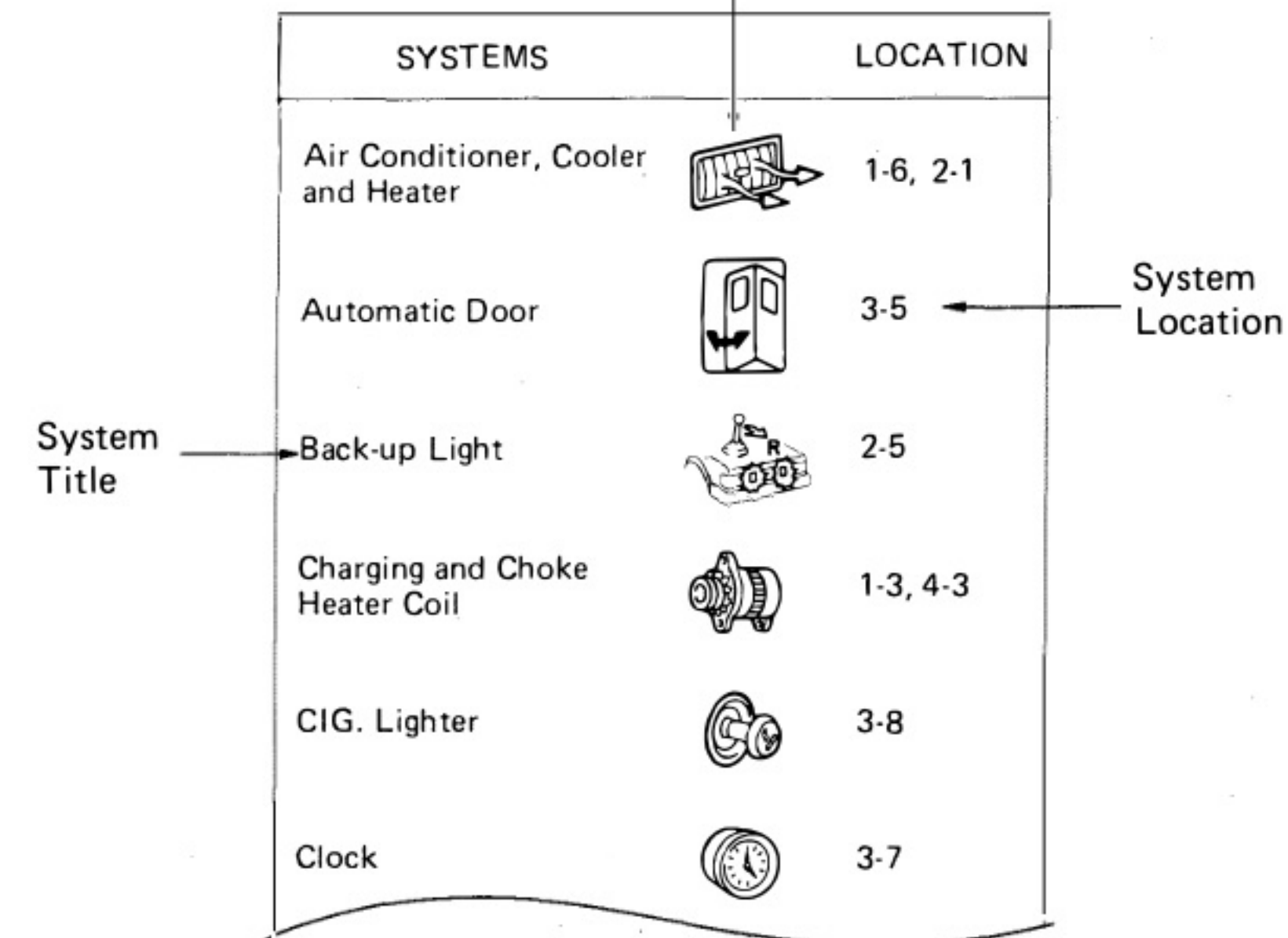
NOTE THE FOLLOWING WHEN READING THE WIRING DIAGRAMS

1. PARTS LIST



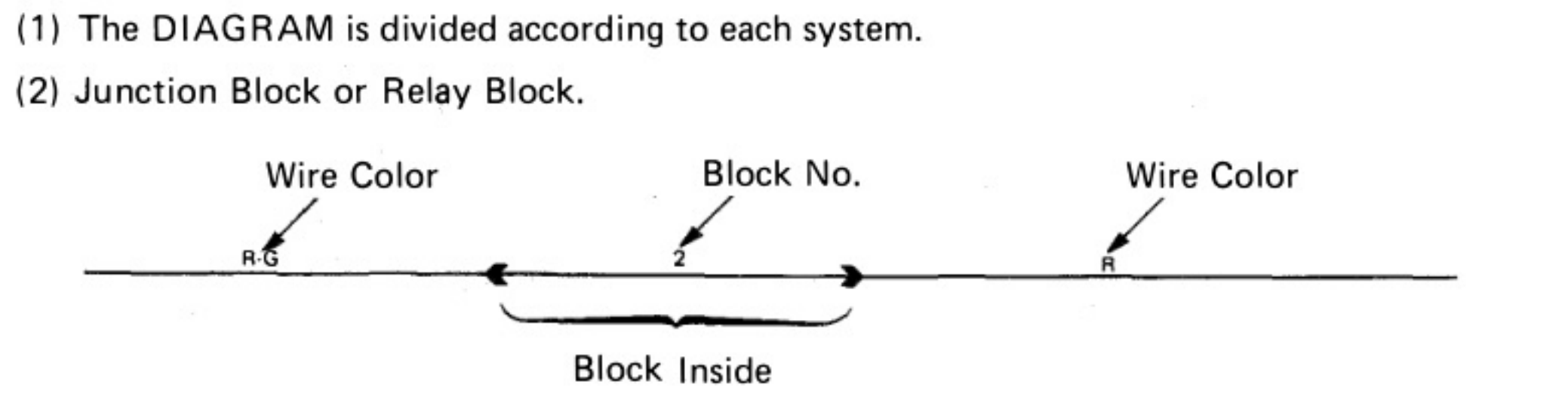
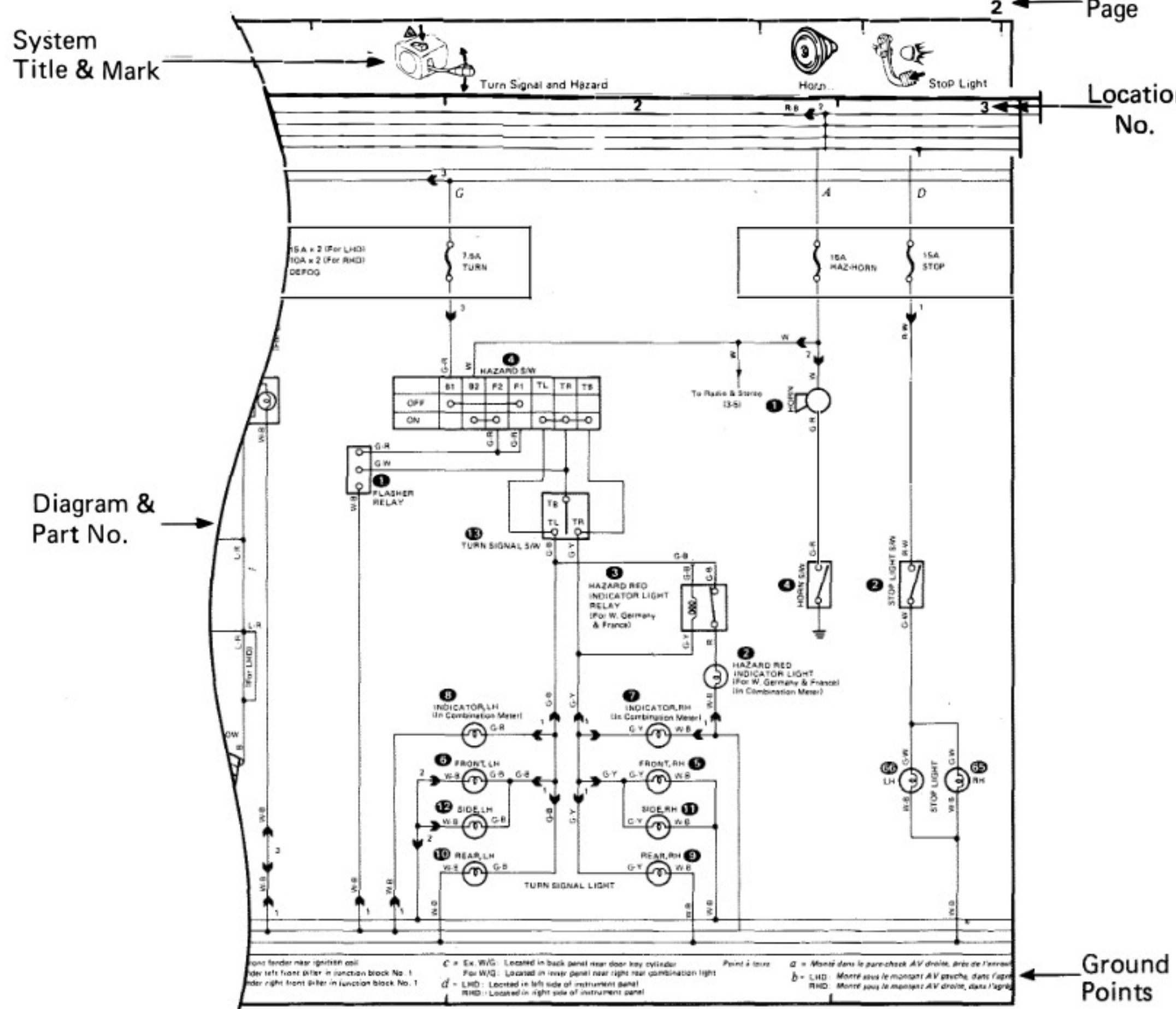
- (1) PARTS LIST can be used for all models.
- (2) System Titles are arranged in alphabetical order in the PARTS LIST.
- (3) Parts used in a single system only begin from No. 1 while those used in two or more systems begin from No. 50.

2. SYSTEM INDEX



- (1) A SYSTEM INDEX can be found at the beginning of the diagrams for each model.
- (2) System Titles are arranged in alphabetical order in the SYSTEM INDEX.
- (3) The figures under LOCATION designate the page and location for each model.
Example: 4-5 Page 4. Location No. 5

3. WIRING DIAGRAM



- (3) Part Numbers
 - a. The part numbers in the DIAGRAM correspond to those in the PARTS LIST.
 - b. Part nomenclatures in the diagram are written in English only. By referring to the part number, the French, German or Spanish equivalent can be found in the respective PARTS LIST.

4. WIRE COLOR

Wire colors are indicated by an alphabetical code.

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

The 1st letter indicates the basic wire color and the 2nd indicates the stripe color.

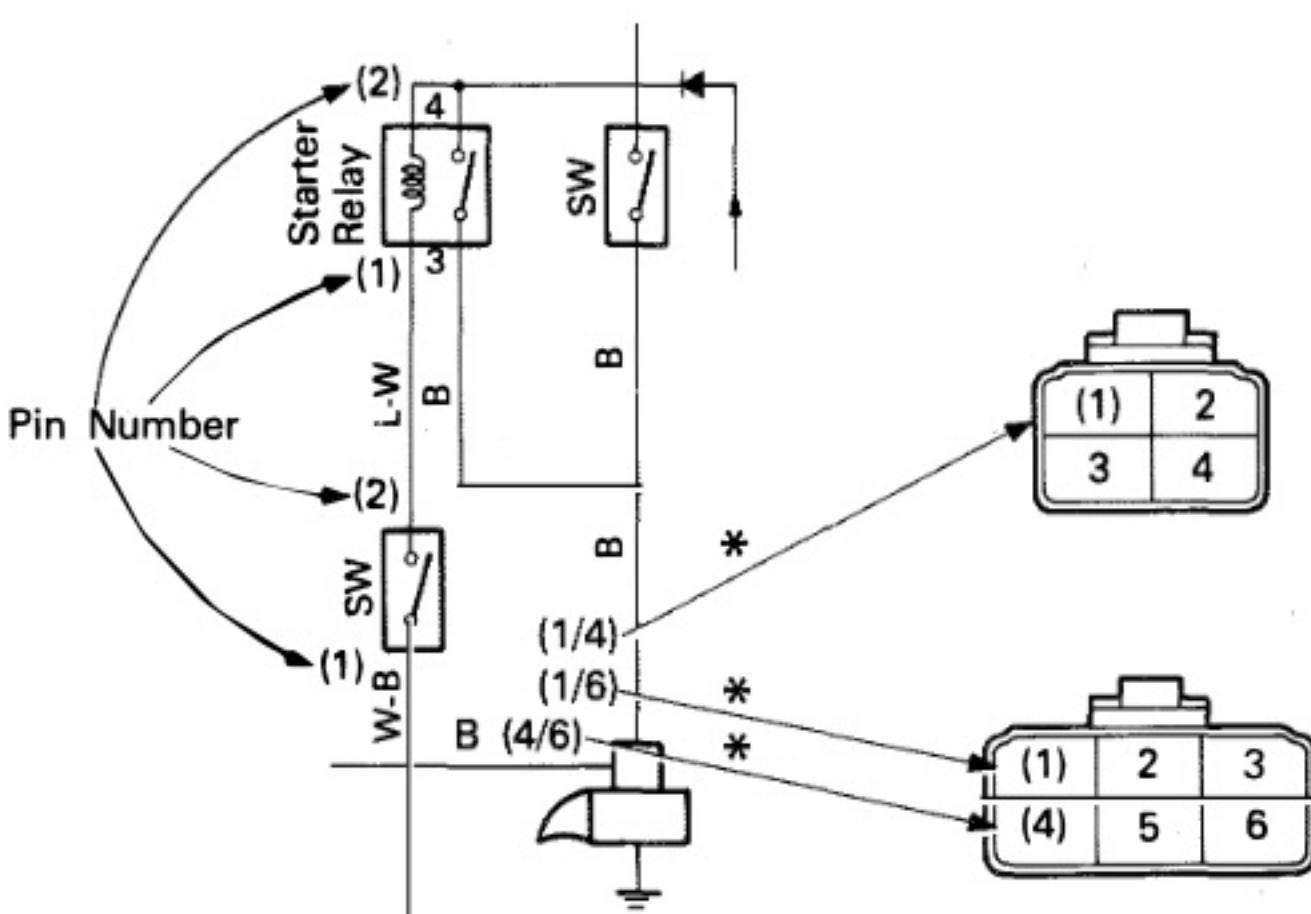
Example: R-G

5. ABBREVIATION

The following abbreviations are used in this wiring diagram.

A/C = Air Conditioner	LHD = Left-hand Drive Vehicles
A.B.S. = Anti Lock Brake System	LWR = Lower
A/P = Air Purifier	O/D = Over Drive
A/T = Automatic Transmission	PKB = Parking Brake
CB = Circuit Breaker	RH = Right-hand
C/P = Coupe Type	RHD = Right-hand Drive Vehicles
ECT = Electronic Controlled Transmission	SC = Spark Control
EDIC = Electrical Diesel Injection Control	S/D = Sedan Type
EFI = Electronic Fuel Injection	S/W = Switch
EUR = Europe	TEMP = Temperature
FF = Front Engine Front Drive	TP = Throttle Positioner
FL = Fusible Link	TWC = Three Way Catalyst
FR = Front Engine Rear Drive	UPR = Upper
GEN = General	PPS = Progressive Power Steering
IG = Ignition	VSV = Vacuum Switching Valve
LH = Left-hand	W/G = Wagon Type

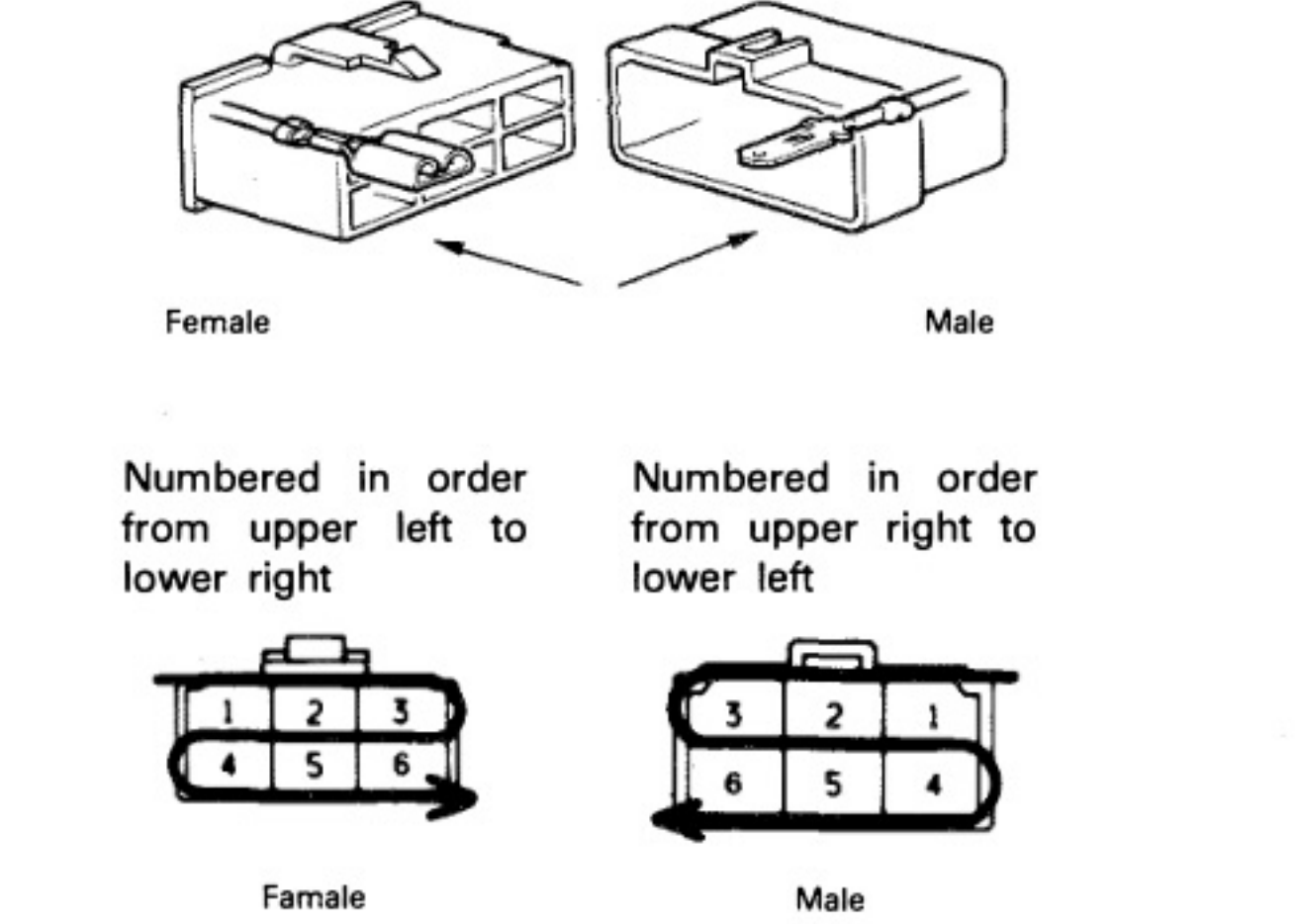
6. PIN NUMBER



* When connectors with different numbers of terminals are used with the same parts, the pin number and the numbers of terminals are specified.
e.g. (1/4) = No. 1 pin/4 terminals connector

Male & female connectors distinguished by shape of their internal pins.

- All connectors are shown from the open end, and the lock is on top.



7. OTHERS

- (1) Legend in the bracket () of the wiring diagram shows the location of mating connection.
- (2) Broken lines in the wiring diagram are for varied models or optional equipment.

NOTE THE FOLLOWING WHEN REPAIRING THE WIRE

1. ALLOWABLE CURRENT – CARRYING CAPACITIES OF WIRES

Finished Outside Diameter mm (in.)	Allowable Current (A) (Maximum Load at 12V)
2.2 (0.087)	9 (110W)
2.4 (0.094)	12 (140W)
2.7 (0.106)	15 (180W)
3.1 (0.122)	20 (240W)
3.8 (0.150)	27 (320W)

2. HANDLING AND INSPECTION PROCEDURES

- (1) Pulling apart connectors
Hold the housings and pull apart. If provided with lock, release the lock first.

CAUTION

- 1. Do not pull the wiring harness.
- 2. Pull apart straight and do not twist sideways.

- (2) Joining together connectors
 - 1) Make sure that the connectors are positioned in correct direction and insert in all the way without twisting or prying.
 - 2) For connectors provided with locks, insert until the locks actuate and then check to see if properly locked.
- (3) Circuit inspection
When checking with circuit tester, the tester probe should always be inserted from the wiring harness side.

CAUTION

Never insert the tester probe from the terminal side of the connector.

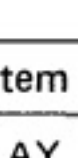
- (4) Others
Never attempt to insert an individual terminal (not set in housing) into a connector.
This could distort the terminal and result in defective contact.

ELECTRICAL WIRING DIAGRAM – 1989 PRODUCTION VEHICLE

No.	COMPONENTS
80	REAR BLOWER MOTOR
81	REAR BLOWER RESISTOR
82	REAR HEATER BLOWER SW
83	REAR HEATER RELAY
84	REAR HEATER SW
85	A/C IN-CAR SENSOR
89	MAGNETIC VALVE
151	A/C HIGH PRESSURE SW
152	PRESSURE SW
Auto Antenna	
1	ANTENNA MOTOR
2	ANTENNA MOTOR SW
3	AUTO ANTENNA MOTOR AND RELAY
Automatic Door	
1	ACCEL INTERLOCK
2	ACCEL INTERLOCK RELAY
3	ACCEL INTERLOCK RELAY, NO. 1
4	ACCEL INTERLOCK RELAY, NO. 2
5	AUTOMATIC DOOR CONTROL BOX
6	AUTOMATIC DOOR SW
7	DOOR WARNING BUZZER
69	POWER MAIN RELAY
72	SPEED SENSOR
A/T Fluid Temp. Warning	
1	A/T FLUID TEMP. SENSOR
2	T/M CONTROL COMPUTER
3	T/M OIL WARNING COMPUTER
91	A/T FLUID TEMP. WARNING LIGHT
Automatic Transmission Indicator	
1	A/T INDICATOR
2	A/T INDICATOR SW
Back-up Light or Back-up Lights	
1	BACK-UP BUZZER
2	BACK-UP LIGHT
3	BACK-UP LIGHT, RH
4	BACK-UP LIGHT, LH
5	BACK-UP LIGHT SW
6	BUZZER REVERSE WARNING
Carburator	
1	SECONDARY FUEL CUT SOLENOID
56	CHOKE HEATER
57	FUEL CUT SOLENOID
66	OUTER VENT CONTROL VALVE
Charging	
1	ALTERNATOR
2	ALTERNATOR (W/IC Regulator)
3	CHARGE LIGHT RELAY
4	VOLTAGE REGULATOR
55	CHARGE WARNING LIGHT
56	CHOKE HEATER
57	FUEL CUT SOLENOID
59	ENGINE MAIN RELAY
64	NOISE FILTER
66	OUTER VENT CONTROL VALVE
Cigarette Lighter	
1	CIGARETTE LIGHTER
2	CIGARETTE LIGHTER FRONT
3	CIGARETTE LIGHTER REAR
70	RESISTOR
Clock	
1	CLOCK (Analog)
2	CLOCK (Digital)

No.		COMPONENTS
Cool and Hot Box		
	1	AMPLIFIER
	2	COOL AND HOT BOX LIGHT
	3	COOL AND HOT BOX SW
	4	MAGNET VALVE RELAY
	5	MOTOR
	6	PTC HEATER
	7	PTC HEATER RELAY
	74	THERMISTOR
	89	MAGNETIC VALVE
Cruise Control		
	1	CRUISE CONTROL ACTUATOR
	2	CRUISE CONTROL CLUTCH SW
	3	CRUISE CONTROL COMPUTER
	4	CRUISE CONTROL INDICATOR LIGHT
	5	CRUISE CONTROL MAIN RELAY
	6	CRUISE CONTROL MAIN SW
	7	CRUISE CONTROL STOP SW
	8	CRUISE CONTROL SW
	9	CRUISE CONTROL VACUUM PUMP
	10	CRUISE CONTROL VACUUM SW
	68	PKB WARNING LIGHT SW
	71	CHECK CONNECTOR
	72	SPEED SENSOR
	79	WATER TEMP. SW
Door Locks		
	1	DOOR LOCK CONTROL RELAY
	2	DOOR LOCK CONTROL SW
	3	DOOR LOCK MOTOR
	4	DOOR LOCK MOTOR, BACK DOOR
	5	DOOR LOCK MOTOR, FRONT RH
	6	DOOR LOCK MOTOR, FRONT LH
	7	DOOR LOCK MOTOR, SLIDE DOOR
	8	DOOR LOCK RELAY
	9	DOOR LOCK SOLENOID
	10	DOOR LOCK SOLENOID, BACK DOOR
	11	DOOR LOCK SOLENOID, FRONT RH
	12	DOOR LOCK SOLENOID, FRONT LH
	13	DOOR LOCK SOLENOID, REAR RH
	14	DOOR LOCK SOLENOID, REAR LH
	15	DOOR LOCK SOLENOID, SLIDE DOOR
	16	DOOR LOCK SW
	17	DOOR LOCK SW, BACK DOOR
Dump		
	1	DUMP WARNING BUZZER
	2	DUMP WARNING BUZZER SW
	3	GAUGE WEIGHT RECEIVER
	4	GAUGE WEIGHT SENDER
	86	PTO INDICATOR LIGHT
	87	PTO INDICATOR LIGHT SW
ECD		
	1	ACCEL SENSOR
	2	EGR CONTROL VSV
	3	ENGINE RETRACT SENSOR
	4	PRESSURE CONTROL VSV
	5	PRESSURE SENSOR
	71	CHECK CONNECTOR
	96	WATER TEMP. SENSOR
	155	GLOW PLUG
	156	GLOW PLUG CURRENT SENSOR
	157	GLOW PLUG INDICATOR LIGHT
	158	GLOW PLUG MAIN RELAY
	159	GLOW PLUG RELAY (After Glow)
	160	GLOW PLUG RESISTOR
	161	EMISSION CONTROL COMPUTER
ECT (Electronic Control Transmission)		
	1	A/T INDICATOR
	2	ECT COMPUTER
	3	PATTERN SELECT SW
	4	T/M SOLENOID
	5	T/M SPEED SENSOR
	63	NEUTRAL START SW
	71	CHECK CONNECTOR

No.	COMPONENTS
79	WATER TEMP. SW
88	O ₂ SENSOR
161	EMISSION CONTROL COMPUTER
Exhaust Brake	
1	EXHAUST BRAKE ACCEL SW
2	EXHAUST BRAKE BUTTERFLY SOLENOID
3	EXHAUST BRAKE CLUTCH SW
4	EXHAUST BRAKE GENERATOR
5	EXHAUST BRAKE INDICATOR LIGHT
6	EXHAUST BRAKE MAIN SW
7	EXHAUST BRAKE NEUTRAL START SW
8	EXHAUST BRAKE RETARDER COMPUTER
9	EXHAUST BRAKE RETARDER RELAY
10	EXHAUST BRAKE SOLENOID
57	FUEL CUT SOLENOID
72	SPEED SENSOR
Fog Lights	
1	FOG LIGHT RELAY
2	FOG LIGHT, RH
3	FOG LIGHT, LH
4	FOG LIGHT SW
Front Wiper and Washer	
1	INTERMITTENT TIME SW
2	WASHER MOTOR
3	WASHER RELAY
4	WASHER SW
5	WASHER VALVE
6	WIPER LOCK RELAY
7	WIPER LOCK SW
8	WIPER MOTOR
9	WIPER RELAY
10	WIPER RELAY (High)
11	WIPER RELAY (Low)
12	WIPE RSW
Fuel Heater	
1	FUEL HEATER
2	FUEL HEATER RELAY
3	FUEL PRESSURE SW
75	VACUUM SW
Glow Plugs, Pre-Heating System	
1	GLOW PLUG CONTROLLER
2	GLOW PLUG RELAY
3	GLOW PLUG SW
4	INTAKE HEATER
5	INTAKE HEATER INDICATOR LIGHT
6	INTAKE HEATER TIMER
7	INTAKE RELAY
8	INTAKE RELAY (After Heater)
9	INTAKE RELAY (Pre-Heat)
10	PRE-HEATING TIMER
57	FUEL CUT SOLENOID
158	FUSIBLE LINK
59	ENGINE MAIN RELAY
96	WATER TEMP. SENSOR
155	GLOW PLUG
156	GLOW PLUG CURRENT SENSOR
157	GLOW PLUG INDICATOR LIGHT
158	GLOW PLUG MAIN RELAY
159	GLOW PLUG RELAY (After Glow)
160	GLOW PLUG RESISTOR
Headlight Cleaner	
1	HEADLIGHT CLEANER MOTOR
2	HEADLIGHT CLEANER RELAY
3	HEADLIGHT CLEANER SW
4	HEADLIGHT CLEANER INDICATOR

COMPONENTS	
No.	
5	DIMMER RELAY
6	DIMMER SW
7	DRIVING LIGHT RELAY
8	DRIVING LIGHT, RH
9	DRIVING LIGHT, LH
10	DRIVING LIGHT SW
11	HEADLIGHT RELAY
12	HEADLIGHT, RH
13	HEADLIGHT, LH
14	HIGH BEAM INDICATOR LIGHT
15	HIGH CUT RELAY
16	RUNNING LIGHT CONTROL RELAY
17	RUNNING LIGHT RELAY
62	LIGHT CONTROL SW
70	RESISTOR
 Heater Water Pump	
1	HEATER PUMP
2	HEATER PUMP RELAY
3	HEATER PUMP SW
4	MAX WARM SW
5	WATER PUMP MAIN RELAY
 Horn	
1	HORN
2	HORN CHANGE SW
3	HORN RELAY
4	HORN, RH
5	HORN, LH
6	HORN SW
 Ignition	
1	IGNITION COIL (W/ Resistor)
2	IIA
3	PICKUP COIL
59	ENGINE MAIN RELAY
64	NOISE FILTER
70	RESISTOR
71	CHECK CONNECTOR
95	DISTRIBUTOR
98	IGNITER
99	IGNITION COIL
 Intake Air Shut-Off System	
1	ENGINE STOP RELAY
2	ENGINE STOP SW
57	FUEL CUT SOLENOID
61	INTAKE AIR SHUT-OFF VSV
 Interior Lights	
1	BACK DOOR LIGHT SW
2	BACK DOOR SW
3	BACK DOOR UNLOCK SW
4	BACK DOOR WARNING LIGHT
5	CENTER DOOR INDICATOR LIGHT
6	CENTER DOOR INDICATOR LIGHT SW
7	DECK LIGHT SW
8	DOOR COURTESY LIGHT, FRONT
9	DOOR COURTESY LIGHT, FRONT RH
10	DOOR COURTESY LIGHT, FRONT LH
11	DOOR COURTESY LIGHT, RH
12	DOOR COURTESY LIGHT, LH
13	DOOR COURTESY SW
14	DOOR COURTESY SW, BACK DOOR
15	DOOR COURTESY SW, FRONT
16	DOOR COURTESY SW, FRONT RH
17	DOOR COURTESY SW, FRONT LH
18	DOOR COURTESY SW, DRIVER'S
19	DOOR COURTESY SW, PASSENGER'S
20	DOOR COURTESY SW, REAR RH
21	DOOR COURTESY SW, REAR LH
22	DOOR COURTESY SW, RH
23	DOOR COURTESY SW, LH
24	DOOR COURTESY SW, SLIDE DOOR
25	DOOR COURTESY SW, SLIDE LH
26	DOOR COURTESY SW, SLIDE RH
27	EXIT WARNING BUZZER
28	IGNITION KEY CYLINDER LIGHT
29	INTEGRATION RELAY

No.	COMPONENTS
30	INTERIOR LIGHT
31	INTERIOR LIGHT, FRONT
32	INTERIOR LIGHT, NO. 1
33	INTERIOR LIGHT, NO. 2
34	INTERIOR LIGHT, NO. 3
35	INTERIOR LIGHT, NO. 4
36	INTERIOR LIGHT, NO. 5
37	INTERIOR LIGHT, REAR
38	INTERIOR LIGHT SW
39	INTERIOR LIGHT SW, FRONT
40	INTERIOR LIGHT SW, REAR
41	LUGGAGE ROOM LIGHT
42	LUGGAGE ROOM LIGHT SW
43	MAP LIGHT
44	MAP LIGHT SW
45	OPEN DOOR WARNING LIGHT
46	OPEN DOOR WARNING LIGHT, BACK DOOR
47	OPEN DOOR WARNING LIGHT, FRONT DOOR
48	OPEN DOOR WARNING LIGHT, REAR DOOR
49	REAR ROOM LIGHT
50	ROOM LIGHT CONTROL RELAY
101	STEP LIGHT
102	UNLOCK WARNING LIGHT
60	INSPECTION LIGHT SOCKET
100	RHEOSTAT

Light Reminder

- | | |
|---|-----------------------|
| 1 | LIGHT REMINDER BUZZER |
| 2 | LIGHT REMINDER RELAY |

Overdrive

- | | |
|----|----------------------|
| 1 | O/D COMPUTER |
| 2 | O/D OIL PRESSURE SW |
| 3 | O/D RELAY |
| 4 | O/D SOLENOID |
| 5 | KICK DOWN SW |
| 72 | SPEED SENSOR |
| 79 | WATER TEMP. SW |
| 92 | O/D MAIN SW |
| 93 | O/D OFF INDICATOR |
| 97 | A/T OIL TEMP. SENSOR |

Power Seat

- | | |
|---|------------------|
| 1 | POWER SEAT MOTOR |
| 2 | POWER SEAT SW |

Power Source

- | | |
|----|-----------------|
| 1 | AMMETER |
| 2 | BATTERY |
| 3 | IGNITION SW |
| 58 | FUSIBLE LINK |
| 71 | CHECK CONNECTOR |

Power Windows

- | | |
|----|---------------------------------|
| 1 | BACK DOOR CONTROL SW |
| 2 | BACK DOOR WARNING LIGHT |
| 3 | COVER TOP SW |
| 4 | DOOR LOCK DETECTION SW |
| 5 | POWER WINDOW AND WIPER RELAY |
| 6 | POWER WINDOW LIMIT SW |
| 7 | POWER WINDOW MASTER SW |
| 8 | POWER WINDOW MOTOR |
| 9 | POWER WINDOW MOTOR, DRIVER'S |
| 10 | POWER WINDOW MOTOR, PASSENGER'S |
| 11 | POWER WINDOW MOTOR, REAR RH |
| 12 | POWER WINDOW MOTOR, REAR LH |
| 13 | POWER WINDOW RELAY |
| 14 | POWER WINDOW SW |
| 15 | POWER WINDOW SW, PASSENGER'S |
| 16 | POWER WINDOW SW, REAR RH |
| 17 | POWER WINDOW SW, REAR LH |
| 69 | POWER MAIN RELAY |

Radiator Fan and Condenser Fan

- | | |
|---|-------------------------------|
| 1 | A/C CONDENSER FAN MOTOR |
| 2 | A/C CONDENSER FAN RELAY |
| 3 | A/C CONDENSER FAN RELAY NO. 1 |
| 4 | A/C CONDENSER FAN RELAY NO. 2 |

No.	COMPONENTS
5	A/C CONDENSER FAN RELAY NO. 3
6	HI-LOW CHANGE RELAY
7	HI-LOW RELAY
64	NOISE FILTER
70	RESISTOR
151	A/C HIGH PRESSURE SW
152	PRESSURE SW

Radio and Tape Player

- | | |
|----|-------------------------------|
| 1 | DC-DC CONVERTER |
| 2 | MICROPHONE |
| 3 | POWER AMPLIFIER |
| 4 | RADIO |
| 5 | RADIO AND TAPE PLAYER |
| 6 | SPEAKER |
| 7 | SPEAKER, FRONT RH |
| 8 | SPEAKER, FRONT LH |
| 9 | SPEAKER, REAR RH |
| 10 | SPEAKER, REAR LH |
| 11 | SPEAKER, RH |
| 12 | SPEAKER, LH |
| 13 | WOOFER AMPLIFIER (W/ SPEAKER) |
| 70 | RESISTOR |

Rear Air Conditioner

- | | |
|----|---|
| 1 | BLOWER RELAY |
| 2 | REAR A/C AMPLIFIER |
| 3 | REAR A/C RELAY |
| 4 | REAR A/C SW |
| 5 | REAR BLOWER MOTOR NO. 1 |
| 6 | REAR BLOWER MOTOR NO. 2 |
| 7 | REAR BLOWER RESISTOR NO. 1 |
| 8 | REAR BLOWER RESISTOR NO. 2 |
| 9 | REAR COOLER BLOWER SW |
| 10 | REAR COOLER RELAY |
| 11 | REAR HEATER AMPLIFIER |
| 12 | REAR HEATER BLOWER SW AND INDICATOR LIGHT |
| 13 | REAR MAGNETIC VALVE |
| 14 | WARM-UP RELAY |
| 74 | THERMISTOR |
| 77 | VOLUME SW |
| 79 | WATER TEMP. SW |
| 80 | REAR BLOWER MOTOR |
| 81 | REAR BLOWER RESISTOR |
| 82 | REAR HEATER BLOWER SW |
| 83 | REAR HEATER RELAY |
| 84 | REAR HEATER SW |
| 85 | A/C IN-CAR SENSOR |
| 90 | AMBIENT SENSOR |

Rear Fog Lights

- | | |
|---|--------------------------|
| 1 | REAR FOG INDICATOR LIGHT |
| 2 | REAR FOG LIGHT |
| 3 | REAR FOG LIGHT RELAY |
| 4 | REAR FOG LIGHT, RH |
| 5 | REAR FOG LIGHT, LH |
| 6 | REAR FOG LIGHT SW |
| 7 | SHORT CONNECTOR |

Rear Window Defogger

- | | |
|---|----------------------|
| 1 | DEFOGGER RELAY |
| 2 | DEFOGGER SW |
| 3 | DEFOGGER TIMER |
| 4 | REAR WINDOW DEFOGGER |

Rear Wiper and Washer

- | | |
|---|------------------------------------|
| 1 | REAR WASHER MOTOR |
| 2 | REAR WASHER SW |
| 3 | REAR WIPER MOTOR |
| 4 | REAR WIPER RELAY |
| 5 | REAR WIPER RETRACTION DETECTION SW |
| 6 | REAR WIPER SW |

Remote Control Mirrors

- | | |
|---|--------------------------|
| 1 | MIRROR MOTORS, RH |
| 2 | MIRROR MOTORS, LH |
| 3 | REMOTE CONTROL MIRROR SW |

No.	COMPONENTS
Seat Belt Warning	
1	BUCKLE SW
2	SEAT BELT WARNING LIGHT
3	SEAT BELT WARNING RELAY

Seat Heaters

- | | |
|---|-----------------------------|
| 1 | SEAT HEATER |
| 2 | SEAT HEATER, DRIVER'S |
| 3 | SEAT HEATER, PASSENGER'S |
| 4 | SEAT HEATER, RH |
| 5 | SEAT HEATER, LH |
| 6 | SEAT HEATER SW |
| 7 | SEAT HEATER SW, DRIVER'S |
| 8 | SEAT HEATER SW, PASSENGER'S |

Sedimentor

- | | |
|---|-----------------------------|
| 1 | SEDIMENTER WARNING LIGHT |
| 2 | SEDIMENTER WARNING LIGHT SW |

Shift Lock System

- | | |
|---|-----------------------------|
| 1 | KEY LOCK SOLENOID |
| 2 | SHIFT LOCK CONTROL COMPUTER |
| 3 | SHIFT LOCK CONTROL SW |
| 4 | SHIFT LOCK SOLENOID |

Starting

- | | |
|----|------------------------|
| 1 | COLD START INJECTOR |
| 2 | OVER INJECTION MAGNET |
| 3 | STARTER |
| 4 | STARTER RELAY |
| 5 | START INJECTOR TIME SW |
| 6 | SUB STARTER SW |
| 63 | NEUTRAL START SW |

Stop Lights

- | | |
|----|----------------|
| 1 | STOP LIGHT, RH |
| 2 | STOP LIGHT, LH |
| 3 | STOP LIGHT SW |
| 64 | NOISE FILTER |

Sun Roof

- | | |
|----|------------------------|
| 1 | LIMIT SW |
| 2 | SUN ROOF CONTROL RELAY |
| 3 | SUN ROOF MOTOR |
| 4 | SUN ROOF SW |
| 69 | POWER MAIN RELAY |

Super Shift

- | | |
|----|------------------------------------|
| 1 | SUPER SHIFT CLUTCH SW |
| 2 | SUPER SHIFT INDICATOR |
| 3 | SUPER SHIFT INDICATOR SW (Economy) |
| 4 | SUPER SHIFT INDICATOR SW (Power) |
| 5 | SUPER SHIFT OIL TEMP. SW |
| 6 | SUPER SHIFT SOLENOID (Economy) |
| 7 | SUPER SHIFT SOLENOID (Power) |
| 8 | TRANSMISSION CONTROL COMPUTER |
| 9 | TRANSMISSION CONTROL SW |
| 71 | CHECK CONNECTOR |

Tachograph

- | | |
|----|----------------------|
| 1 | TACHOGRAPH |
| 2 | TACHOGRAPH TIMER |
| 73 | TACHOGRAPH LIGHT |
| 94 | SPEED WARNING BUZZER |

Taillights and Illumination

- | | |
|---|-------------------------|
| 1 | ACCESSORY METER LIGHT |
| 2 | A/C SW LIGHT |
| 3 | A/T INDICATOR LIGHT |
| 4 | A/T LEVER LIGHT |
| 5 | ASHTRAY LIGHT |
| 6 | CIGARETTE LIGHTER LIGHT |
| 7 | CLEARANCE LIGHT, RH |
| 8 | CLEARANCE LIGHT, LH |

No.	COMPONENTS
9	CLINOMETER LIGHT
10	CLOCK LIGHT (Analog)
11	COMBINATION METER LIGHT
12	COOLER CONTROL PANEL LIGHT
13	CRUISE CONTROL SW LIGHT
14	DEFOGGER SW LIGHT
15	FRONT CLEARANCE LIGHT, RH
16	FRONT CLEARANCE LIGHT, LH
17	FRONT FOG LIGHT SW LIGHT
18	GLOVE BOX LIGHT
19	GLOVE BOX LIGHT SW
20	HAZARD SW LIGHT
21	HEATER CONTROL PANEL LIGHT
22	INSTRUMENT PANEL LIGHT
23	LICENCE PLATE LIGHT
24	LICENCE PLATE LIGHT, RH
25	LICENCE PLATE LIGHT, LH
26	LIGHT FAILURE SENSOR
27	MARKER LIGHT
28	O/D SW LIGHT
29	OIL PRESSURE INDICATOR LIGHT
30	PATTERN INDICATOR LIGHT
31	POWER WINDOW SW LIGHT
32	RADIO LIGHT
33	REAR CLEARANCE LIGHT, RH
34	REAR CLEARANCE LIGHT, LH
35	REAR FOG LIGHT SW LIGHT
36	REAR HEATER CONTROL PANEL LIGHT
37	REAR SIDE MARKER, RH
38	REAR SIDE MARKER, LH
39	REAR WIPER AND WASHER SW LIGHT
40	SPEEDOMETER LIGHT
41	SWITCH LIGHT
42	TACHOMETER LIGHT
43	TAILLIGHT RELAY
44	TAILLIGHT, RH
45	TAILLIGHT, LH
46	THERMOMETER INDICATOR LIGHT
47	TRANSFER CONTROL SW LIGHT
48	WEIGHT METER LIGHT
60	INSPECTION LIGHT SOCKET
62	LIGHT CONTROL SW
70	RESISTOR
73	TACHOGRAPH LIGHT
100	RHEOSTAT

Thermometer

- | | |
|---|----------------------|
| 1 | THERMOMETER |
| 2 | THERMO SENSOR, FRONT |
| 3 | THERMO SENSOR, REAR |

Trailer Socket

- | | |
|---|-------------------------------|
| 1 | TRAILER SOCKET |
| 2 | TRAILER SOCKET CHANGE OVER SW |

Turn Signal and Hazard

- | | |
|----|----------------------------------|
| 1 | HAZARD RED INDICATOR LIGHT |
| 2 | HAZARD RED INDICATOR LIGHT RELAY |
| 3 | HAZARD RED INDICATOR LIGHT, RH |
| 4 | HAZARD RED INDICATOR LIGHT, LH |
| 5 | HAZARD SW |
| 6 | QUICK FLASHER RELAY |
| 7 | TURN SIGNAL FLASHER |
| 8 | TURN SIGNAL LIGHT, FRONT RH |
| 9 | TURN SIGNAL LIGHT, FRONT LH |
| 10 | TURN SIGNAL LIGHT, INDICATOR RH |
| 11 | TURN SIGNAL LIGHT, INDICATOR LH |
| 12 | TURN SIGNAL LIGHT, REAR RH |
| 13 | TURN SIGNAL LIGHT, REAR LH |
| 14 | TURN SIGNAL LIGHT, SIDE RH |
| 15 | TURN SIGNAL LIGHT, SIDE LH |
| 16 | TURN SIGNAL RELAY, RH |
| 17 | TURN SIGNAL RELAY, LH |
| 18 | TURN SIGNAL SW |

Two-Speed

- | | |
|---|-------------------------------|
| 1 | TWO-SPEED INDICATOR LIGHT, RH |
| 2 | TWO-SPEED INDICATOR LIGHT, LH |
| 3 | TWO-SPEED INDICATOR LIGHT SW |

No.	COMPONENTS
Winch	
1	MAGNET SW
2	TEMP. SW
3	WINCH CONTROL SW
4	WINCH MAIN RELAY
5	WINCH MOTOR

Work Light

- | | |
|---|----------------------|
| 1 | A/T POSITION |
| 2 | PTO CONNECTOR |
| 3 | WORK INDICATOR LIGHT |
| 4 | WORK LIGHT |
| 5 | WORK LIGHT SW |

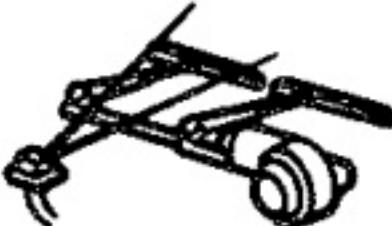
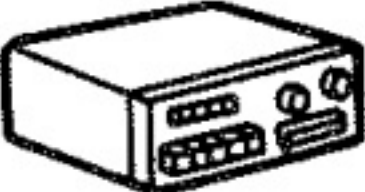
4WD, Automatic Disconnecting Differential

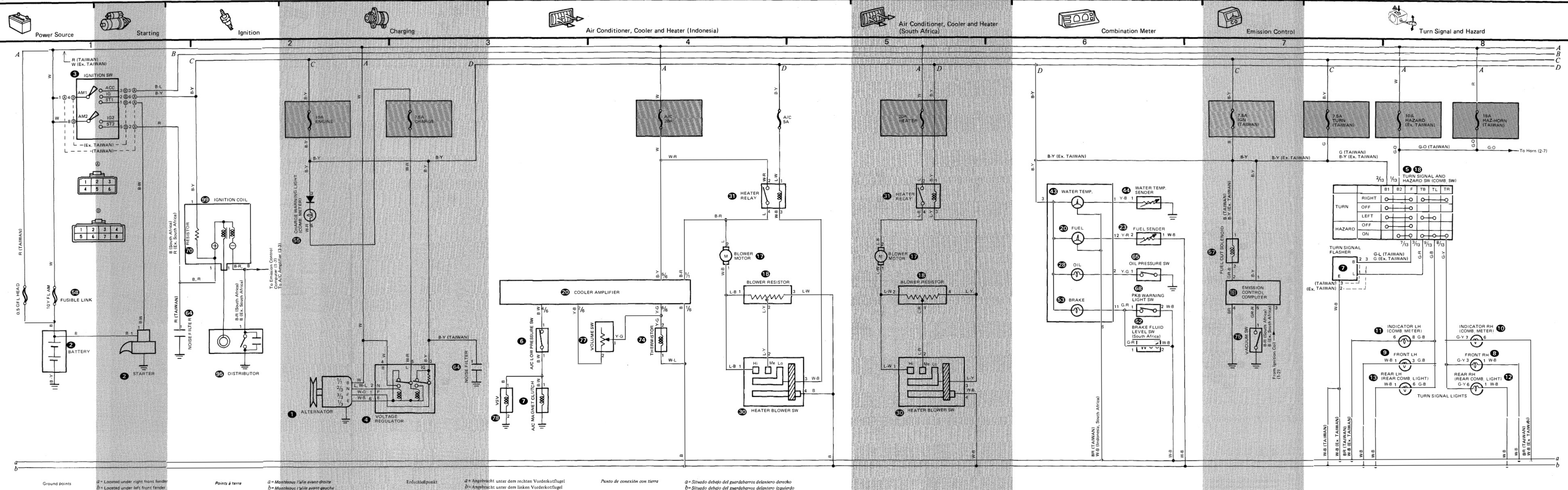
- | | |
|-----|--|
| 1 | AUTOMATIC DISCONNECTING DIFFERENTIAL |
| 2 | DETECTION SW |
| 3 | AUTOMATIC DISCONNECTING DIFFERENTIAL VSV |
| 4 | TRANSFER CONTROL RELAY |
| 5 | TRANSFER CONTROL SOLENOID |
| 6 | TRANSFER CONTROL SW |
| 153 | TRANSFER L4 POSITION SW |
| 154 | 4WD INDICATOR LIGHT |
| 154 | 4WD INDICATOR LIGHT SW |

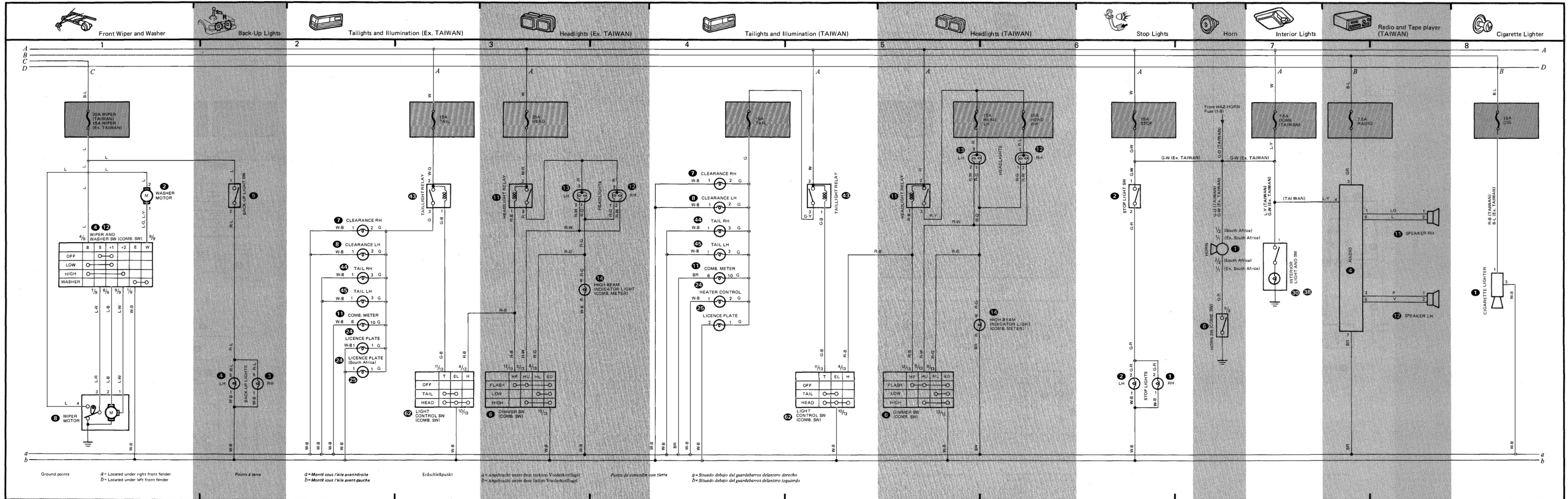
SYSTEM INDEX

TUV

1989 Production Vehicles (Page 1 to Page 3)

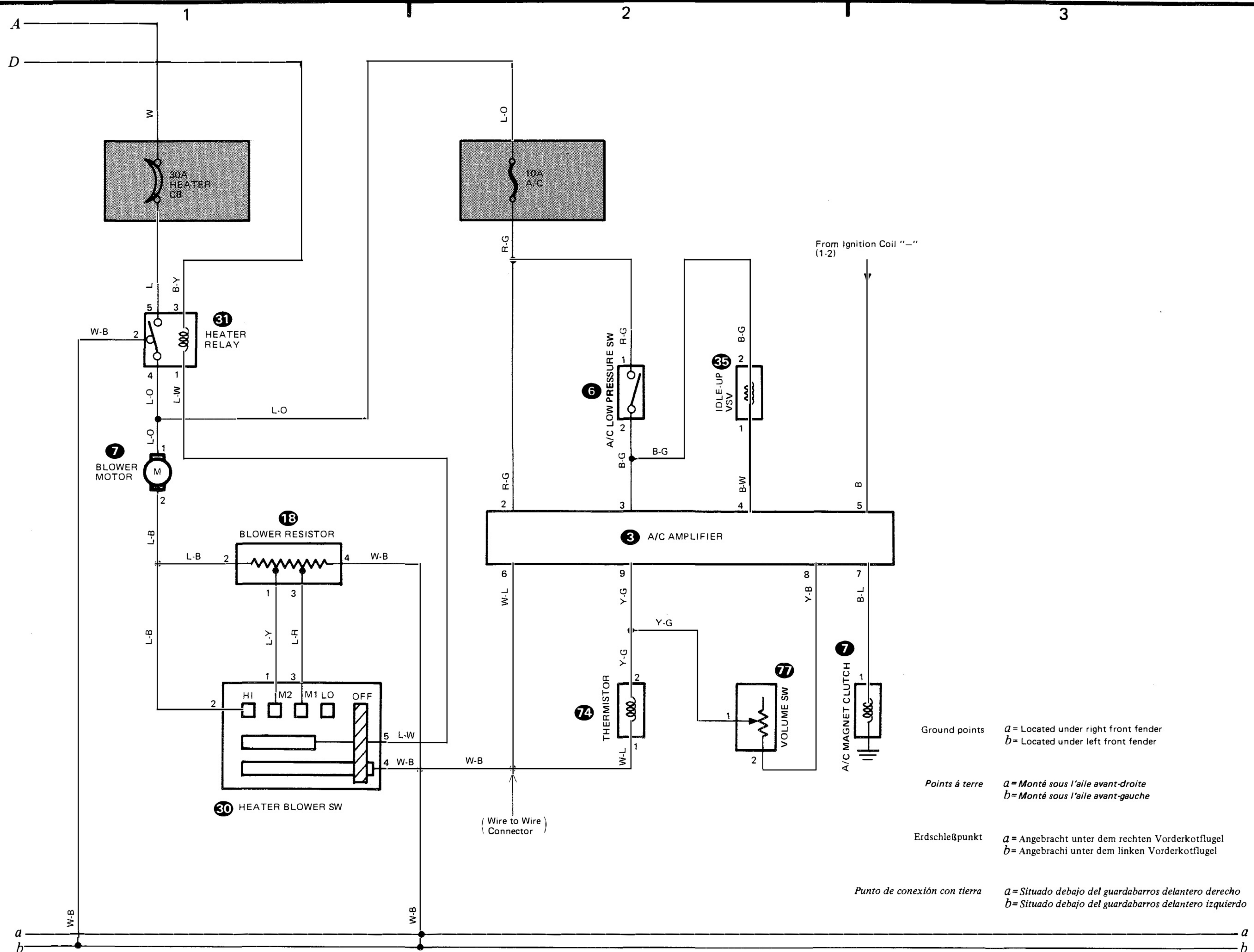
SYSTEMS	LOCATION	SYSTEMS	LOCATION
Air Conditioner, Cooler and Heater	 1-4 (Indonesia) 1-5 (South Africa) 3-2 (TAIWAN)		
Back-up Lights	 2-2		
Charging	 1-2		
Cigarette Lighter	 2-8		
Combination Meter	 1-6		
Emission Control	 1-7		
Front Wiper and Washer	 2-1		
Headlights	 2-3 (Ex. TAIWAN) 2-5 (TAIWAN)		
Horn	 2-7		
Ignition	 1-2		
Interior Lights	 2-7		
Power Source	 1-1		
Radio and Tape Player	 2-8 (TAIWAN)		
Starting	 1-1		
Stop Lights	 2-6		
Taillights and Illumination	 2-2 (Ex. TAIWAN) 2-4 (TAIWAN)		
Turn Signal and Hazard	 1-8		







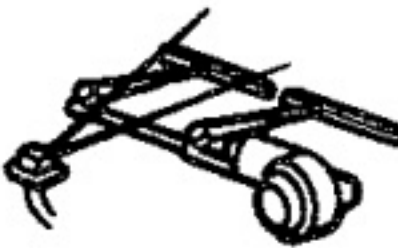
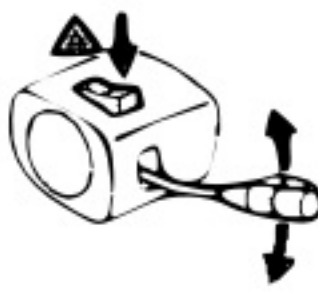
Air Conditioner Cooler and Heater (TAIWAN)

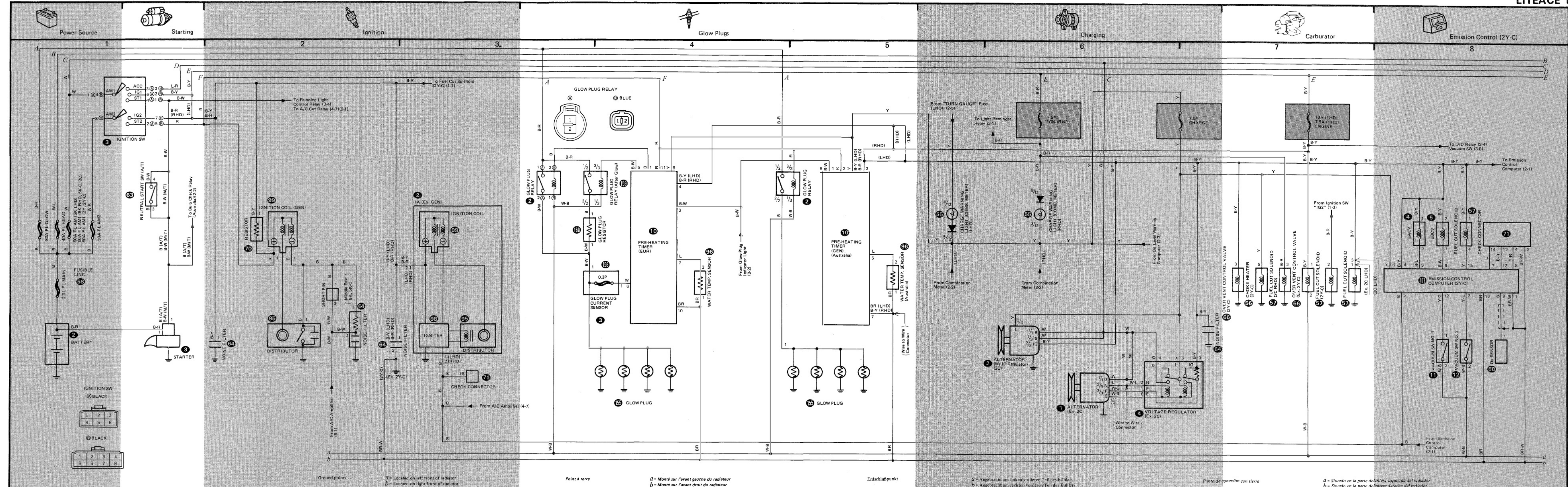


SYSTEM INDEX

LITEACE

1989 Production Vehicles (Page 1 to Page 5)

SYSTEMS	LOCATION	SYSTEMS	LOCATION
Air Conditioner, Cooler and Heater	 4-7, 5-2	Light Reminder	 3-1
Back-up Lights	 2-4	Overdrive	 2-4
Carburetor	 1-7	Power Source	 1-1
Charging	 1-6	Radiator Fan and Condenser Fan	 4-3
Cigarette Lighter	 4-2	Radio and Tape Player	 4-2
Clock	 4-1	Rear Fog Lights	 3-7 (Ex. U.K.) 5-4 (U.K.)
Combination Meter	 2-3	Rear Window Defogger	 3-8
Cool and Hot Box	 4-5	Rear Wiper and Washer	 2-8
Door Locks	 4-3	Starting	 1-1
Emission Control	 1-8 (2Y-C) 2-1 (Ex. 2Y-C)	Stop Lights	 3-7
Front Wiper and Washer	 2-7	Taillights and Illumination	 3-1 (Ex. W. Germany) 3-2 (W. Germany)
Fuel Heater	 3-8	Turn Signal and Hazard	 2-5 (Ex. RHD EUR) 5-7 (RHD EUR)
Glow Plugs	 1-4		
Headlight Cleaner	 2-8		
Headlights	 3-5 (Ex. U.K.) 5-5 (U.K.)		
Horn	 2-6		
Ignition	 1-2		
Interior Lights	 4-1		

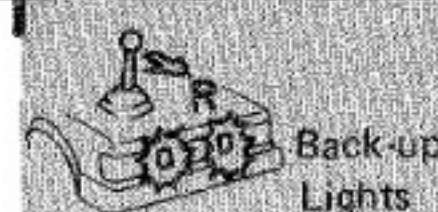




Emission Control (Ex. 2Y-C)



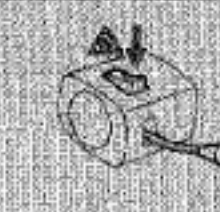
Combination Meter



Lights



Overdrive



Turn Signal and Hazard (Ex. RHD EUR)



Horn



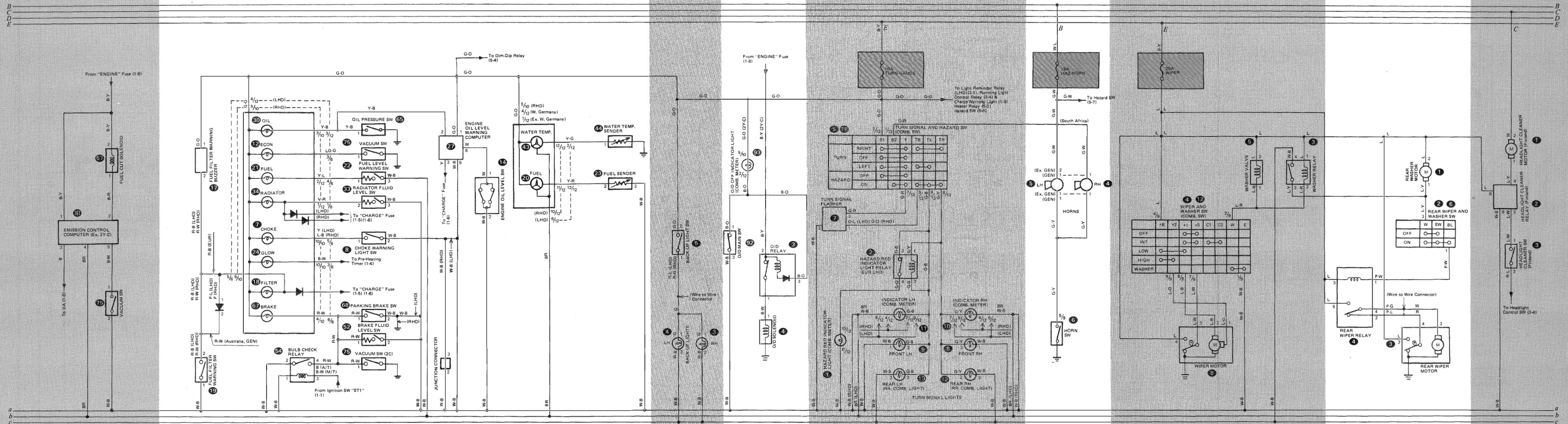
Front Wiper and Washer



Rear Wiper and Washer



Headlight Cleaner



Ground point

a = Located on left front of radiator
 b = Located on right front of radiator

C = Located on left of rear crossmember

Point à terre

a = Monté sur l'avant gauche du radiateur.
b = Monté sur l'avant droit du radiateur

C = Monté sur la gauche de la traverse arrière

Erdschlußpunkt

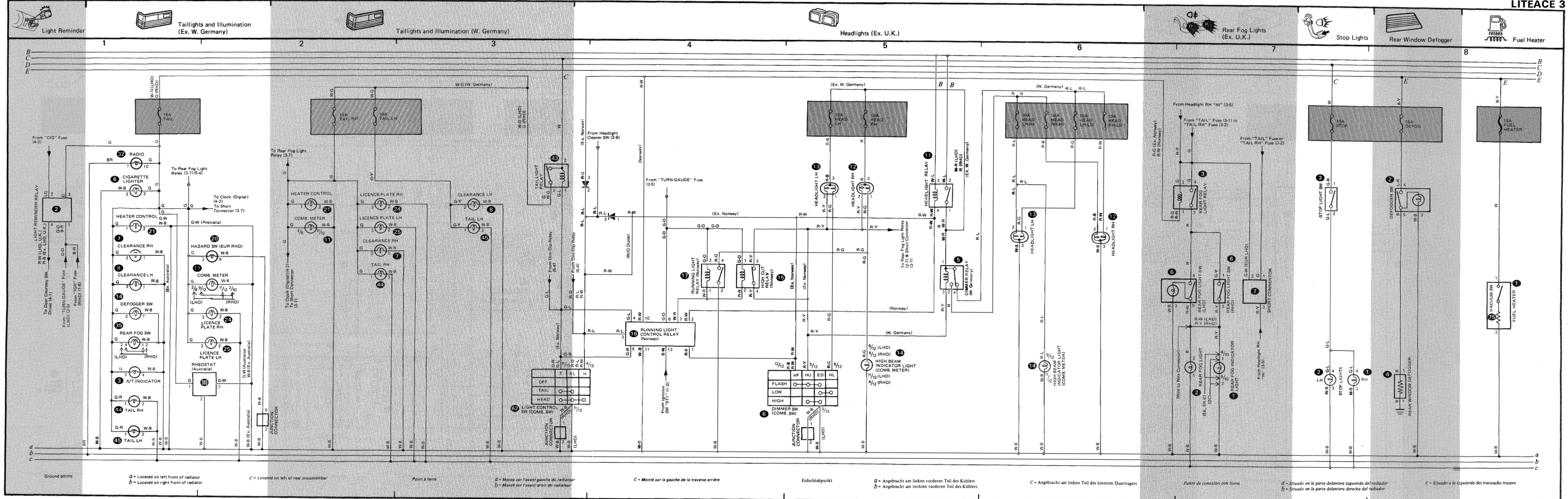
α = Angebracht am linken vorderen Teil des Kühlers
 β = Angebracht am rechten vorderen Teil des Kühlers

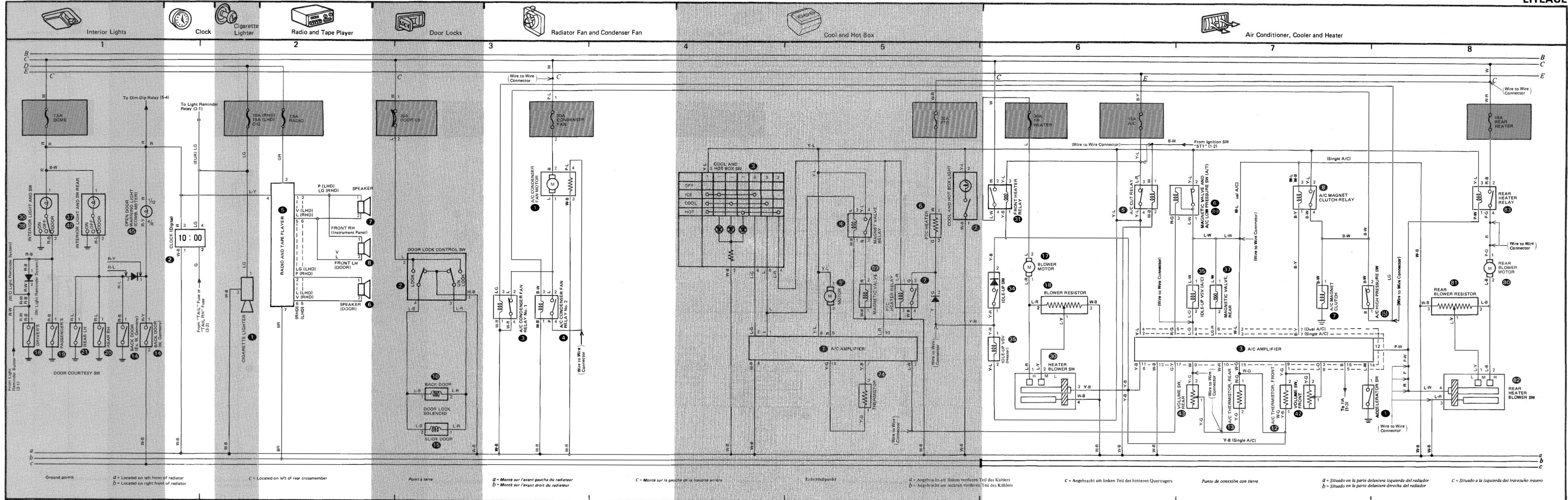
C = Angebracht am linken Teil des hinteren Querträgers

Punto de conexión con tierra

a = Situado en la parte delantera izquierda del radiador
b = Situado en la parte delantera derecha del radiador

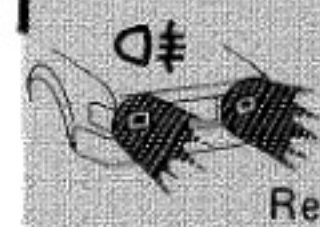
C = Situado a la izquierda del travieso trasero



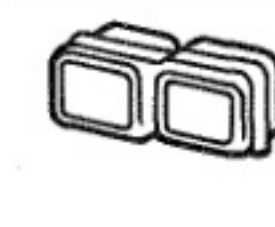




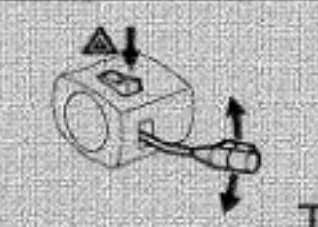
Air Conditioner, Cooler and Heater



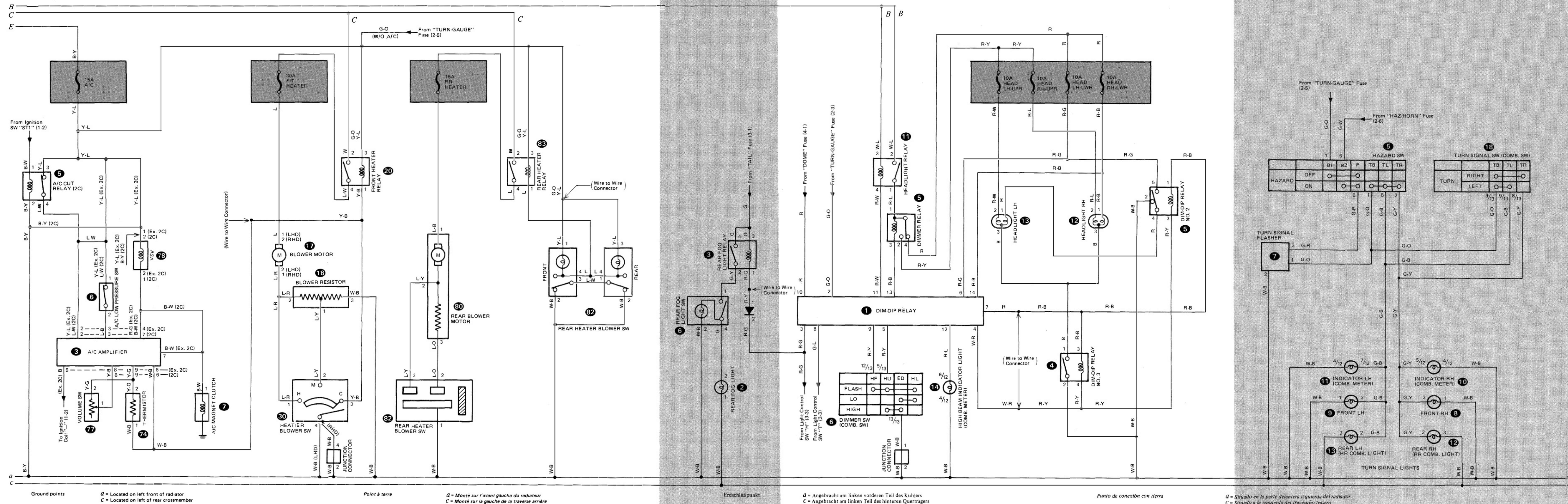
Rear Fog Lights (U.K.)



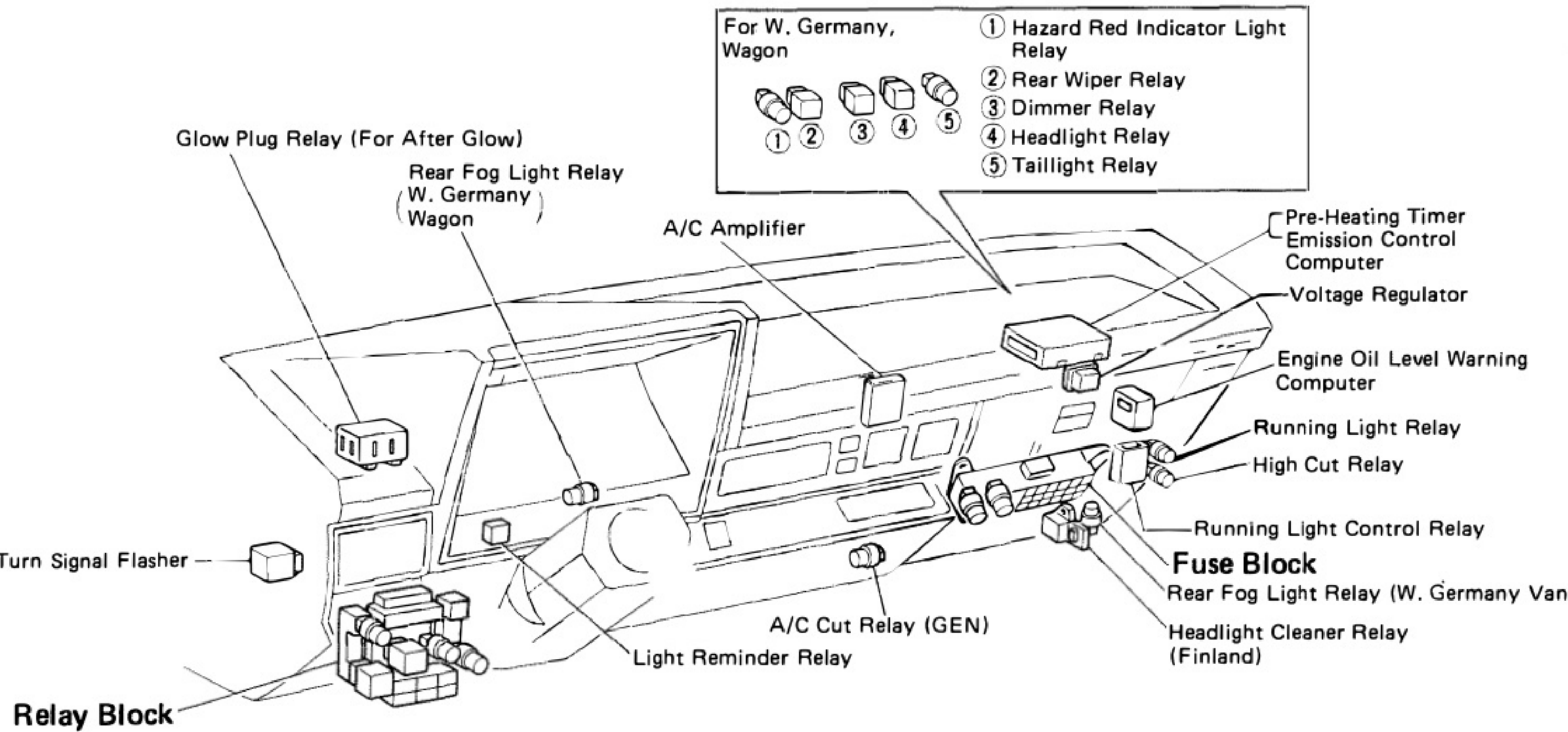
Headlights (U.K.)



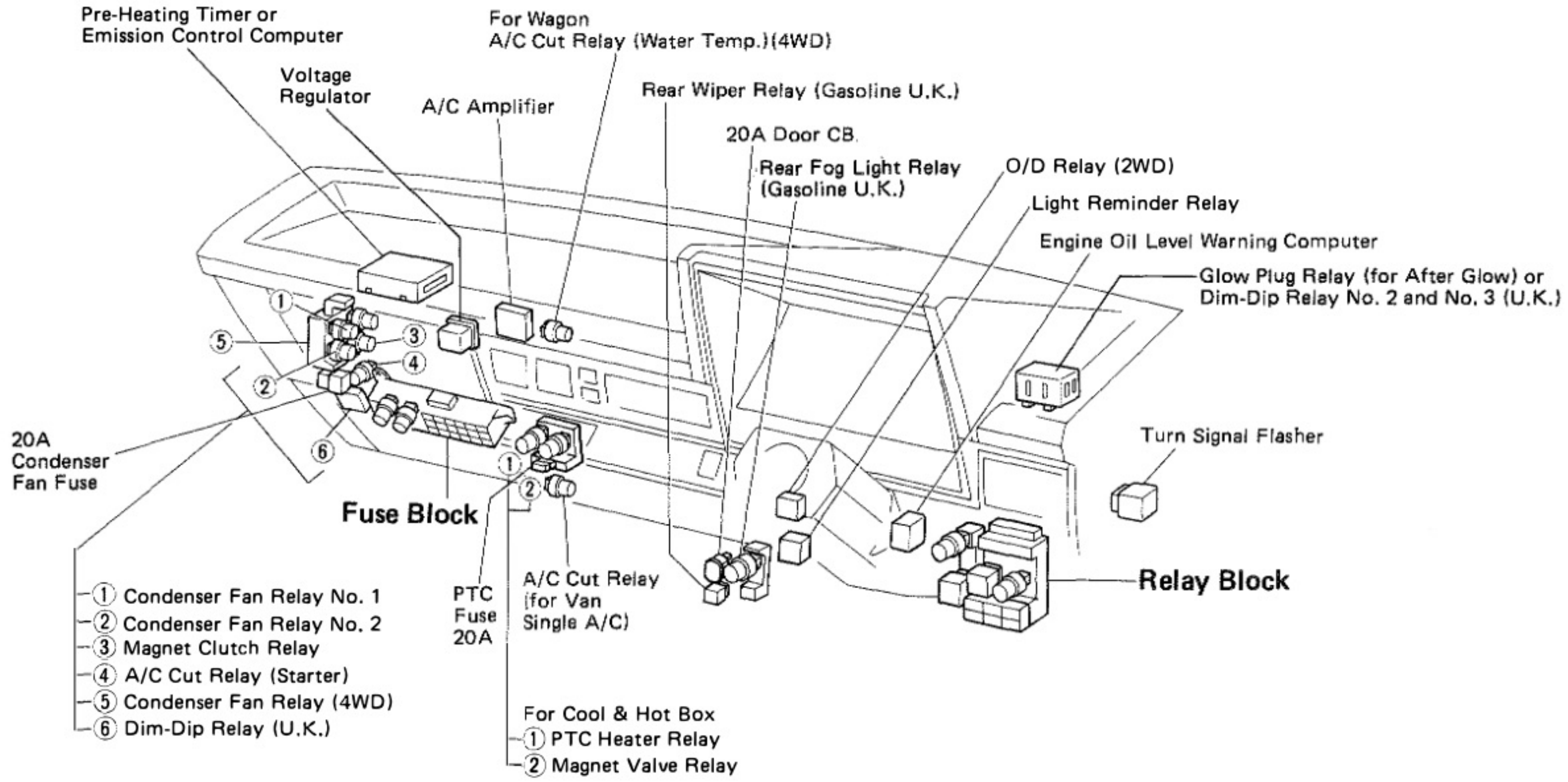
Turn Signal and Hazard (RHD EUR)



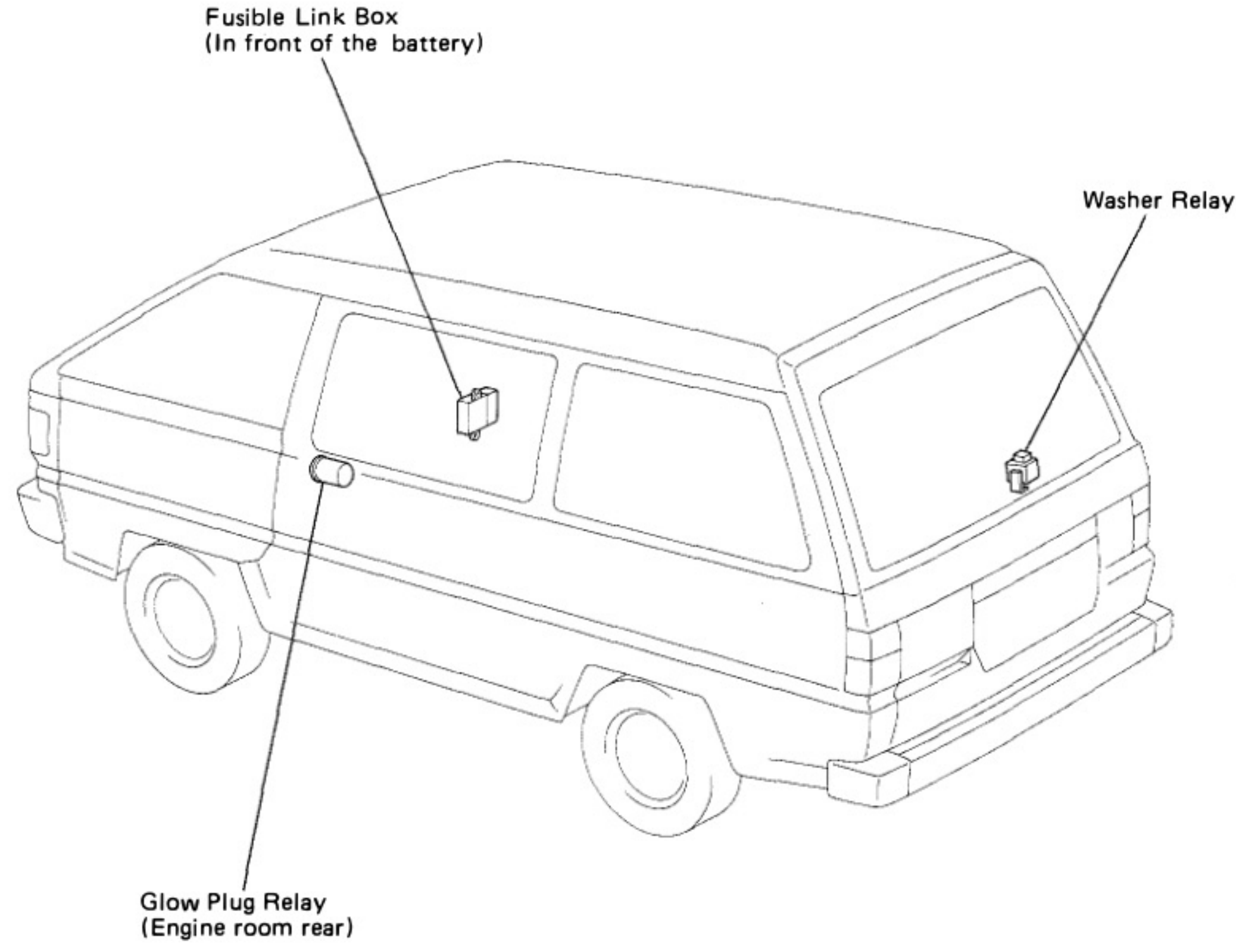
[Instrument Panel LHD]



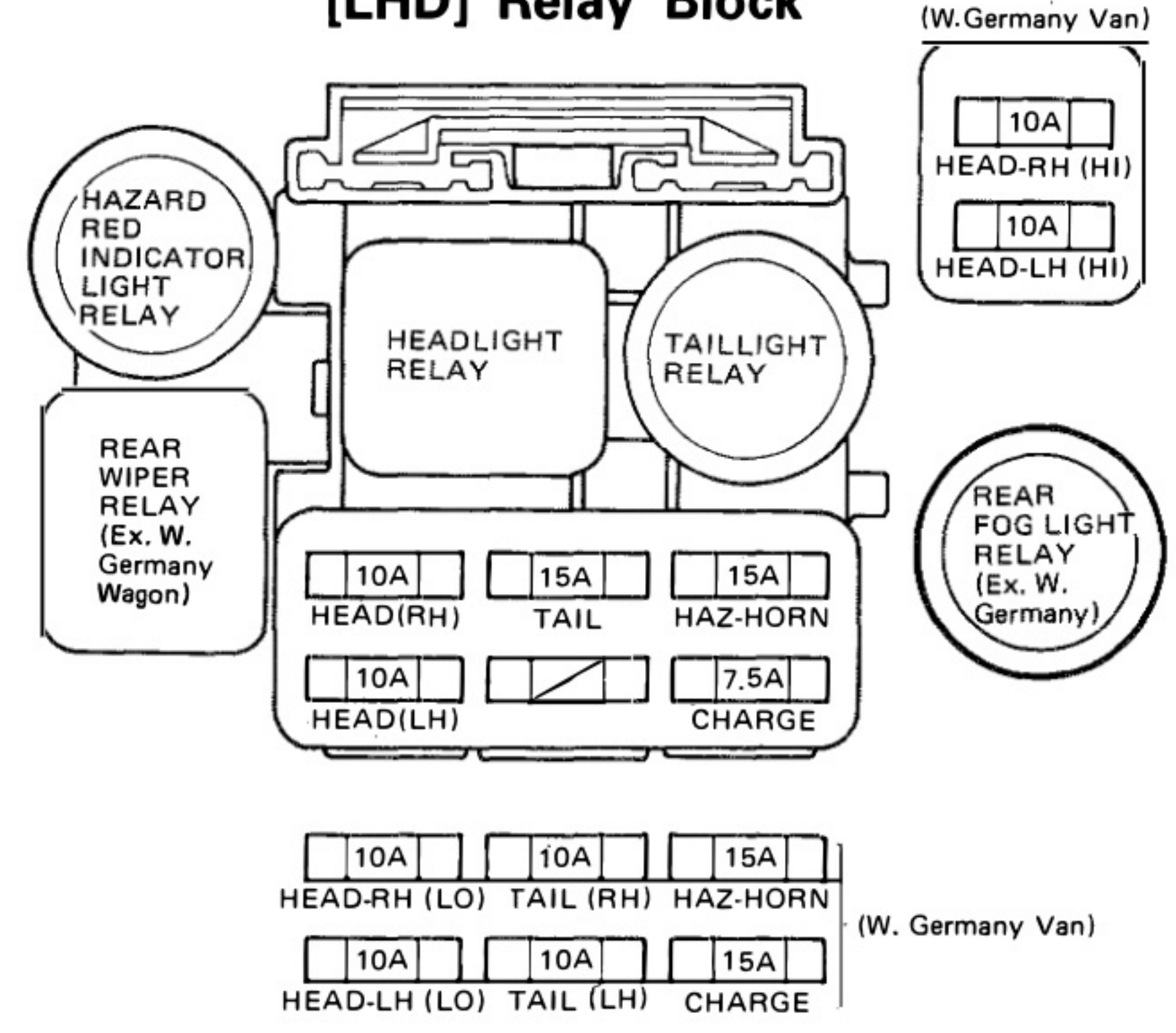
[Instrument Panel RHD]



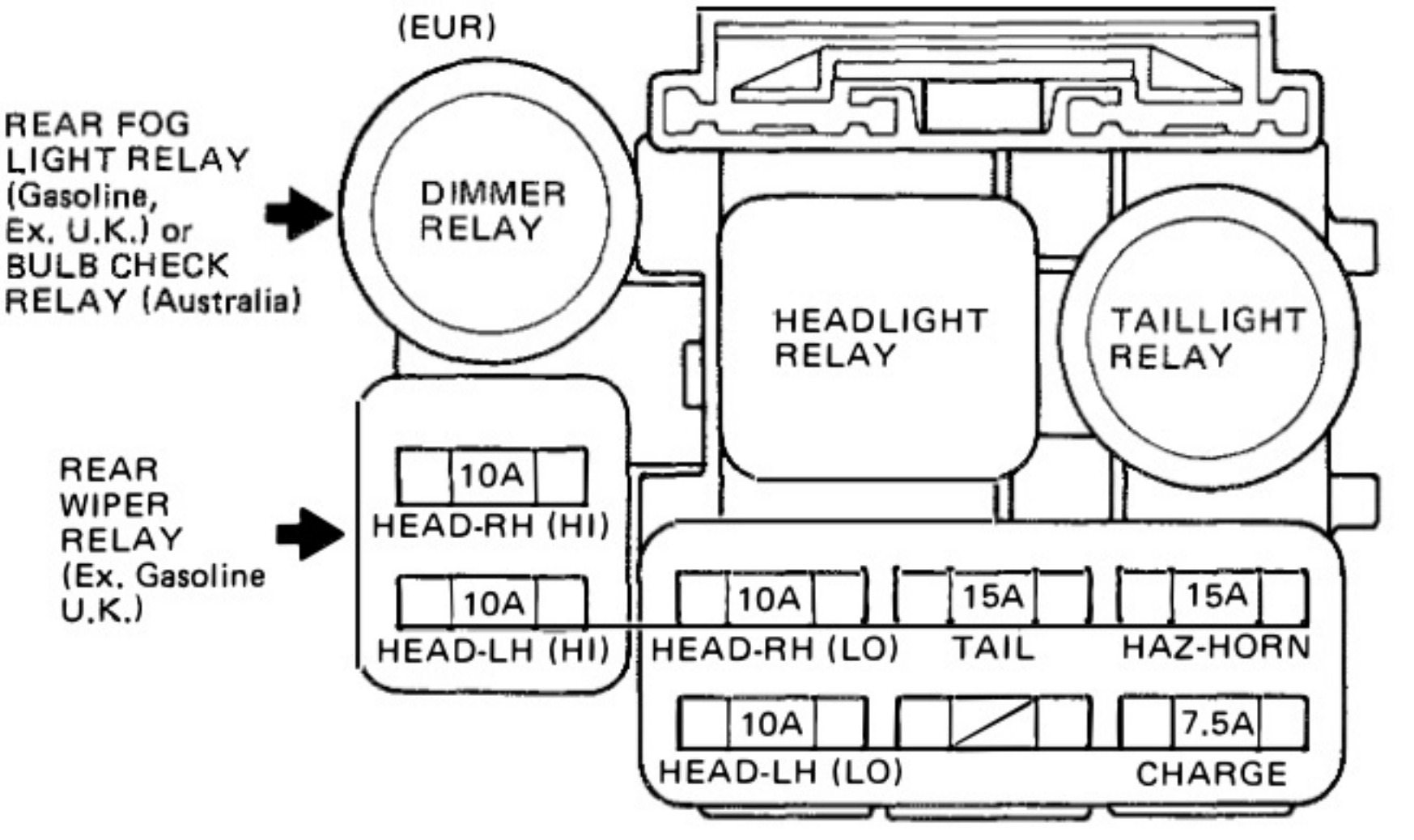
[Body]



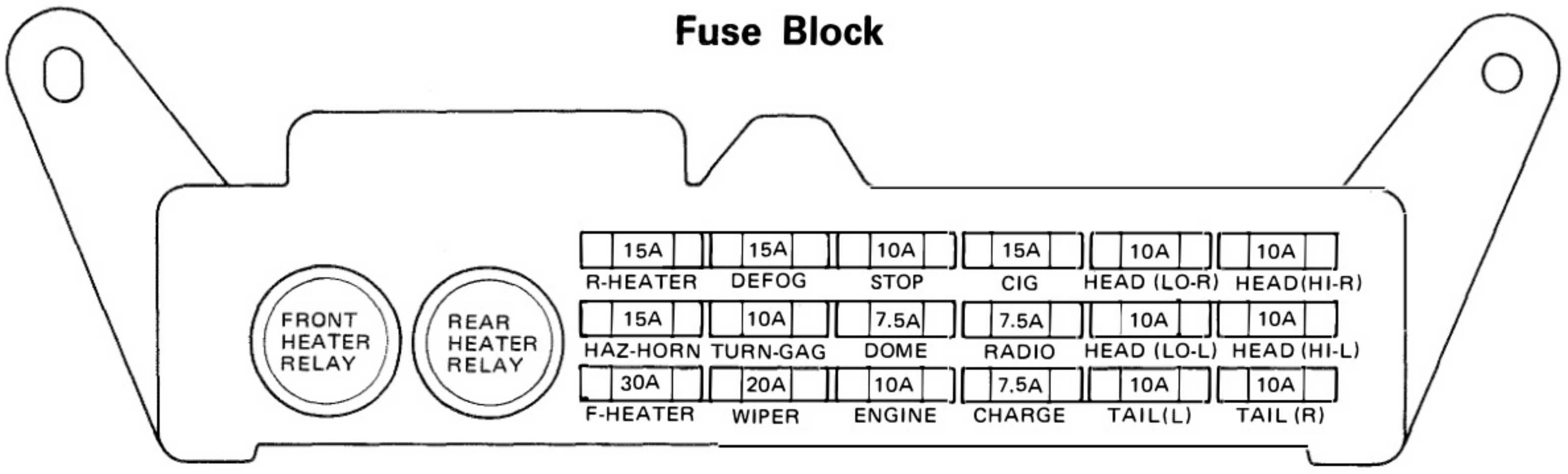
[LHD] Relay Block



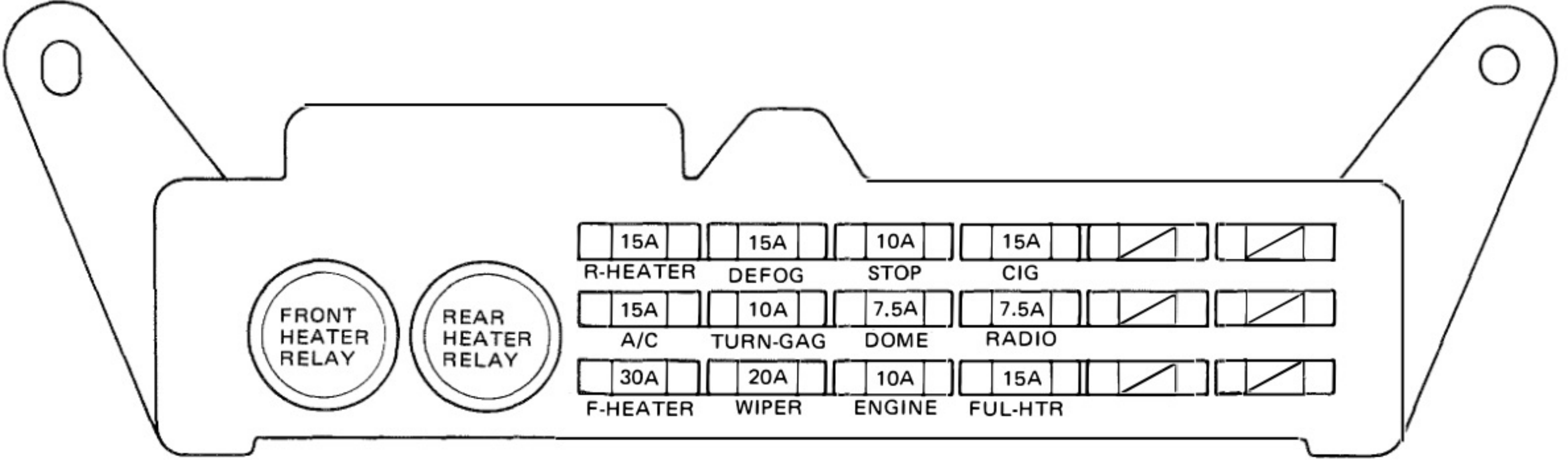
[RHD] Relay Block



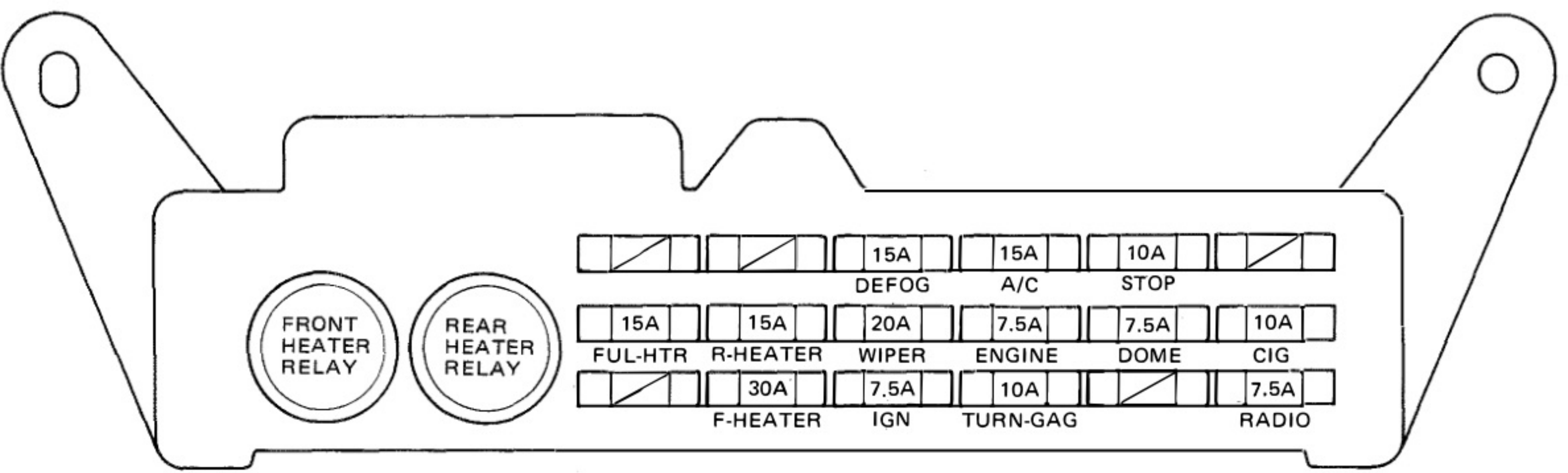
[LHD] (W. Germany W/G)



[LHD] (Ex. W. Germany W/G)



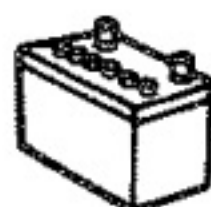
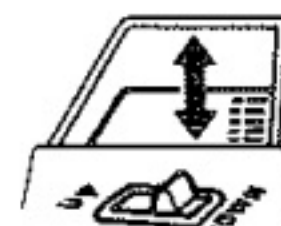
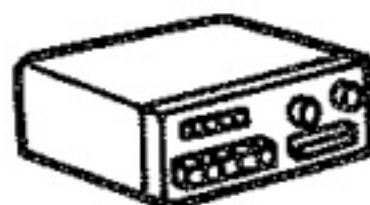
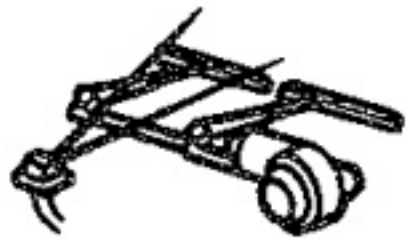
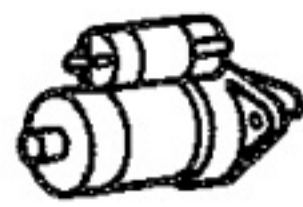
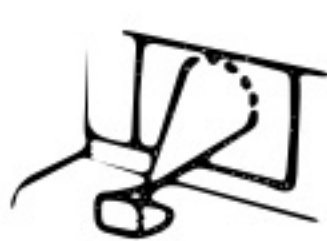
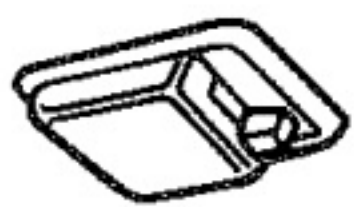
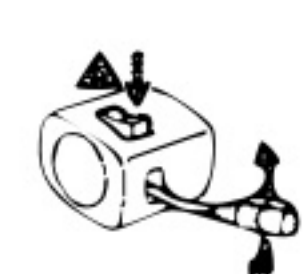
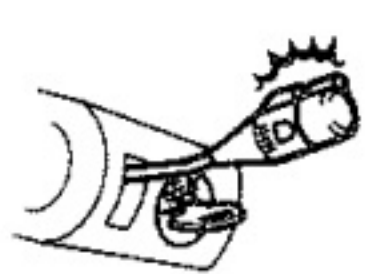
[RHD]

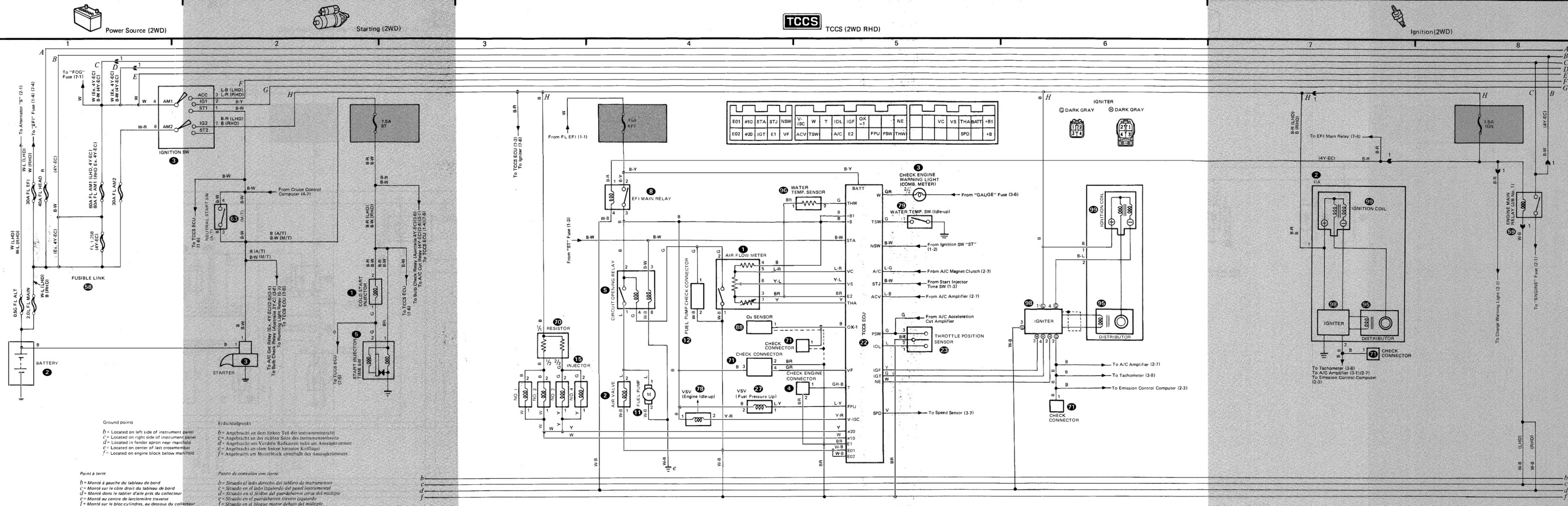


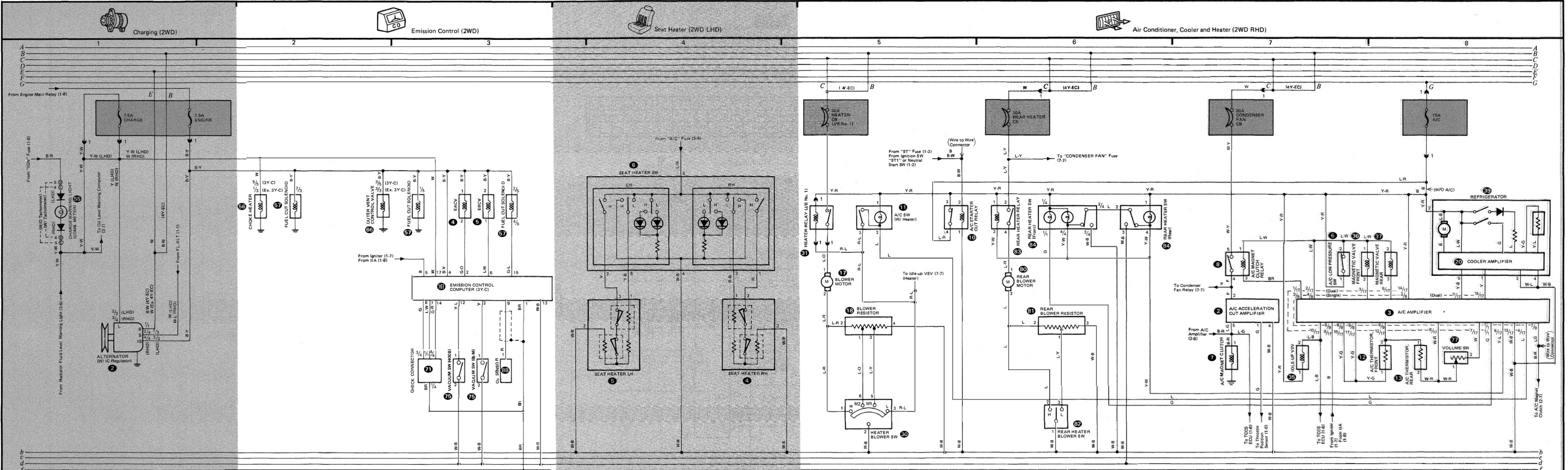
SYSTEM INDEX

MODEL-F/TARAGO

1989 Production Vehicles (Page 1 to Page 11)

SYSTEMS	LOCATION	SYSTEMS	LOCATION
Air Conditioner, Cooler and Heater	 2-7 (2WD RHD) 3-3 (2WD LHD) 9-5 (4WD)	Power Source	 1-1 (2WD) 8-1 (4WD)
Back-up Lights	 4-3 (2WD) 8-8 (4WD)	Power Windows	 4-4 (2WD) 9-2 (4WD)
Charging	 2-1 (2WD) 8-6 (4WD)	Radiator Fan and Condenser Fan	 7-7 (2WD) 9-8 (4WD)
Cigarette Lighter	 6-5 (2WD) 10-8 (4WD)	Radio and Tape Player	 6-7 (2WD) 11-3 (4WD)
Clock	 6-5 (2WD) 11-2 (4WD)	Rear Air Conditioner	 3-4 (2WD) (LHD)
Combination Meter	 3-7 (2WD) 8-7 (4WD)	Rear Fog Lights	 5-2 (2WD) 7-1 (2WD U.K.) 10-8 (4WD)
Cruise Control	 4-6 (2WD)	Rear Window Defogger	 4-8 (2WD) 10-1 (4WD)
Door Locks	 4-5 (2WD) 8-3 (4WD)	Rear Wiper and Washer	 6-1 (2WD) 10-3 (4WD)
Emission Control	 2-3 (2WD)	Seat Heaters	 2-4 (2WD LHD)
Front Wiper and Washer	 6-2 (2WD) 10-4 (4WD)	Starting	 1-2 (2WD) 8-1 (4WD)
Headlight Cleaner	 6-2 (2WD)	Stop Lights	 4-7 (2WD) 10-1 (4WD)
Headlights	 5-5 (2WD Ex. EUR LHD) 5-8 (2WD EUR LHD) 7-3 (2WD U.K.) 10-7 (4WD)	Sun Roof	 4-3 (2WD)
Horn	 5-2 (2WD) 10-3 (4WD)	Taillights and Illumination	 5-3 (2WD Ex. EUR LHD) 5-6 (2WD EUR LHD) 10-5 (4WD)
Ignition	 1-8 (2WD)	TCCS	 1-5 (2WD RHD) 7-5 (2WD LHD) 8-3 (4WD)
Interior Lights	 6-4 (2WD) 11-1 (4WD)	Turn Signal and Hazard	 5-1 (2WD Ex. U.K.) 7-8 (2WD U.K.) 10-2 (4WD RHD) 11-5 (4WD LHD)
Light Reminder	 6-3 (2WD) 11-4 (4WD)		
Overdrive	 4-2 (2WD) 9-1 (4WD)		





Ground points: b = Located on left side of instrument panel; c = Located on right side of instrument panel; d = Located in fender apron near manifold; f = Located on engine block below manifold.

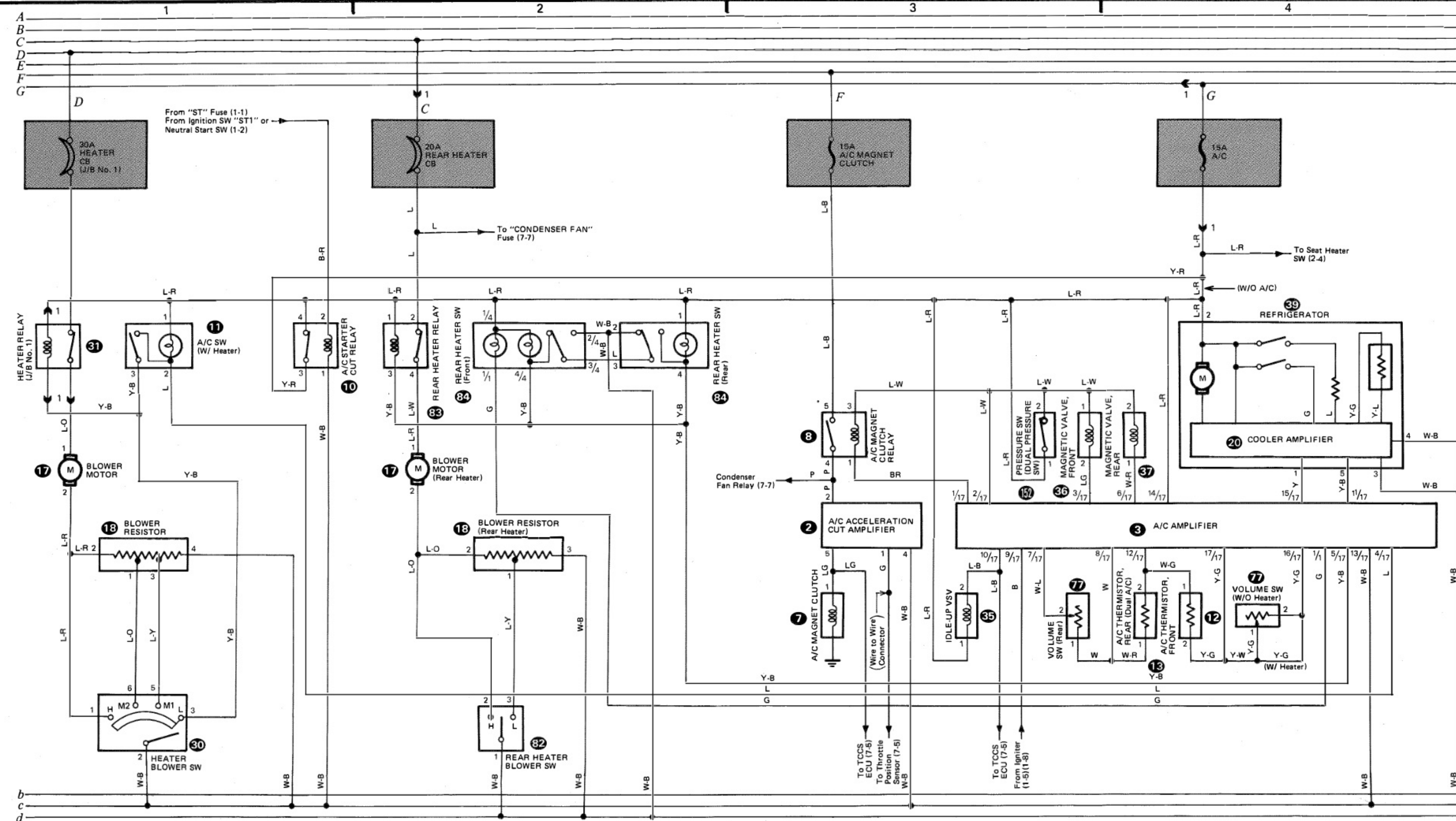
Point à terre: b = Monté à gauche du tableau de bord; c = Monté sur le côté droit du tableau de bord; d = Monté dans le tablier d'air près du collecteur; f = Monté sur le bloc-cylindres, au-dessous du collecteur.

Erdchlußpunkt: b = Angebracht an dem linken Teil der Instrumententafel; c = Angebracht an der rechten Seite der Instrumententafel; d = Angebracht am Vordern Radkasten nahe am Ansaugkrümmer; f = Angebracht am Motorblock unterhalb des Ansaugkrümmers.

Punto de conexión con tierra: b = Situado al lado derecho del tablero de instrumentos; c = Situado en el lado izquierdo del panel instrumental; d = Situado en el faldón del guardabarros cerca del múltiple; f = Situado en el bloque motor debajo del múltiple.



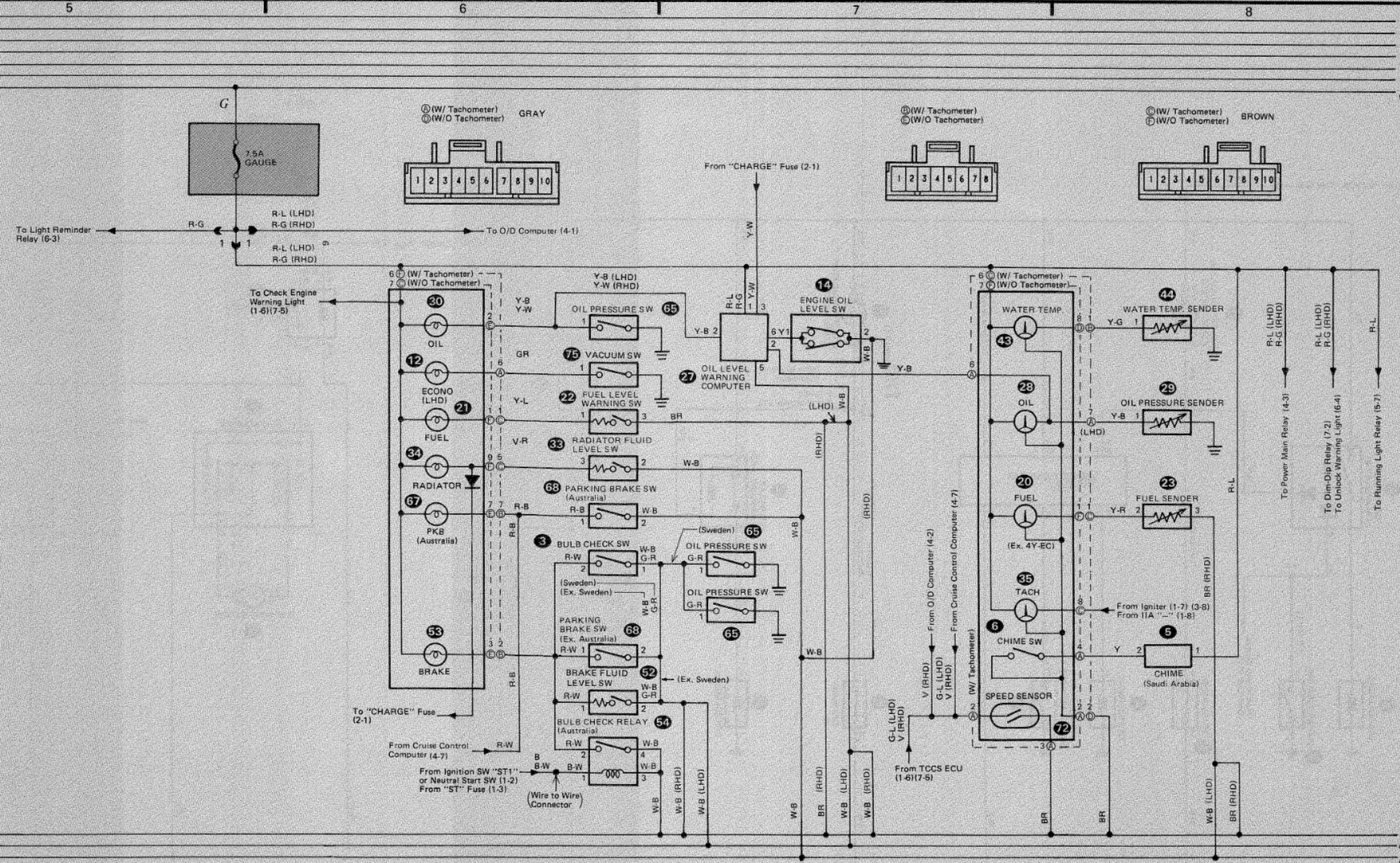
Air Conditioner, Cooler and Heater (2WD LHD)



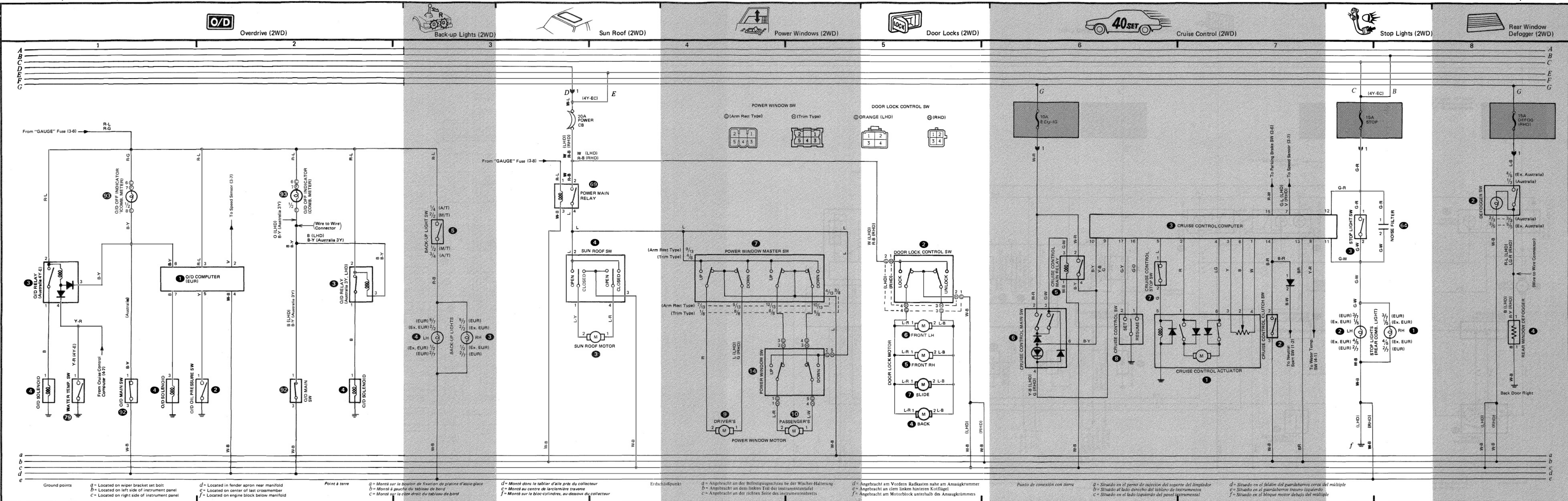
Ground points
b = Located on left side of instrument panel
c = Located on right side of instrument panel
d = Located in fender apron near manifold
Point à terre
b = Monté à gauche du tableau de bord
c = Monté sur le côté droit du tableau de bord
d = Monté dans le tablier d'aile près du collecteur
Erdschlußpunkt
b = Angebracht an dem linken Teil der Instrumententafel
c = Angebracht an der rechten Seite der Instrumententafel
d = Angebracht am Vordern Radkasten nahe am Ansaugkrümmer

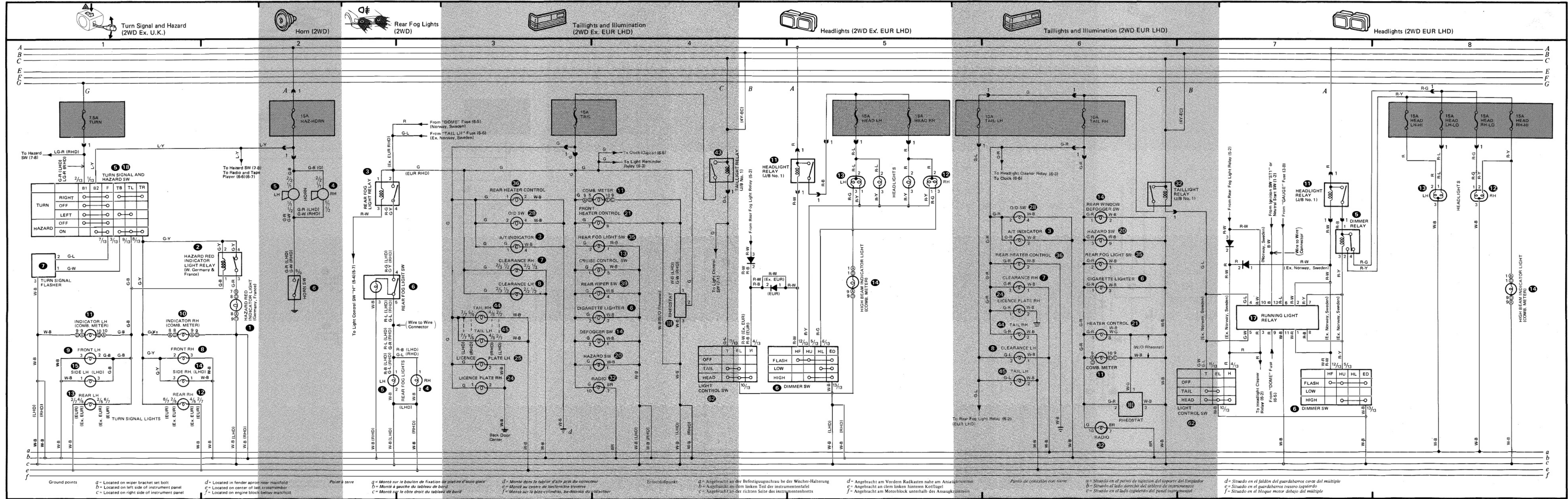


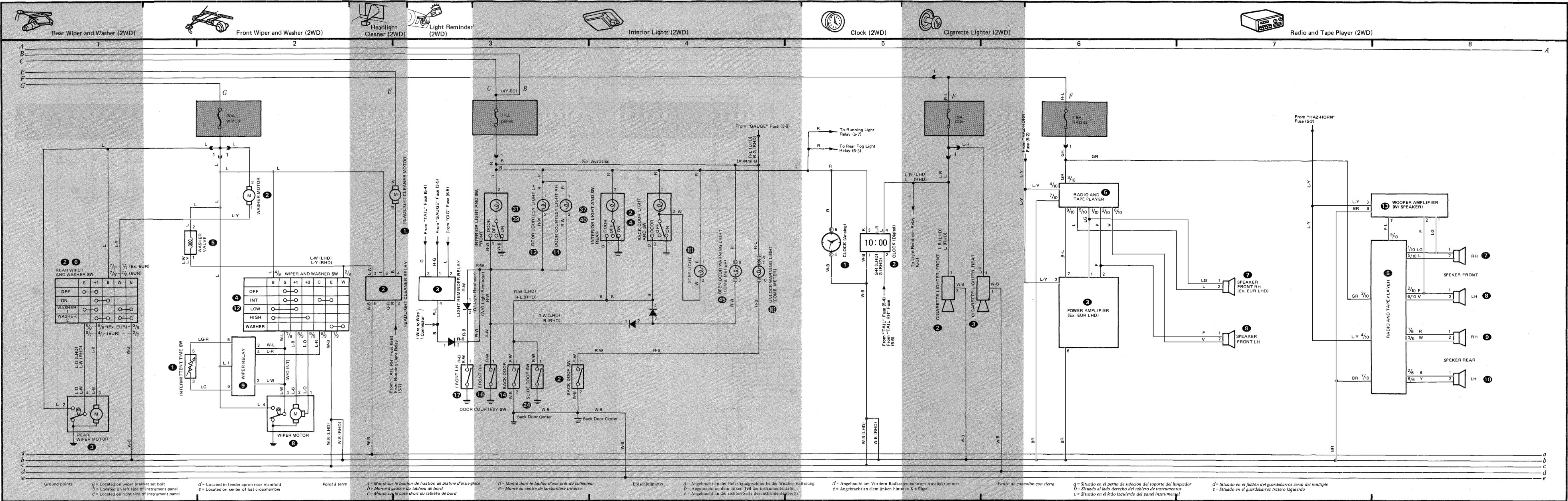
Combination Meter (2WD)

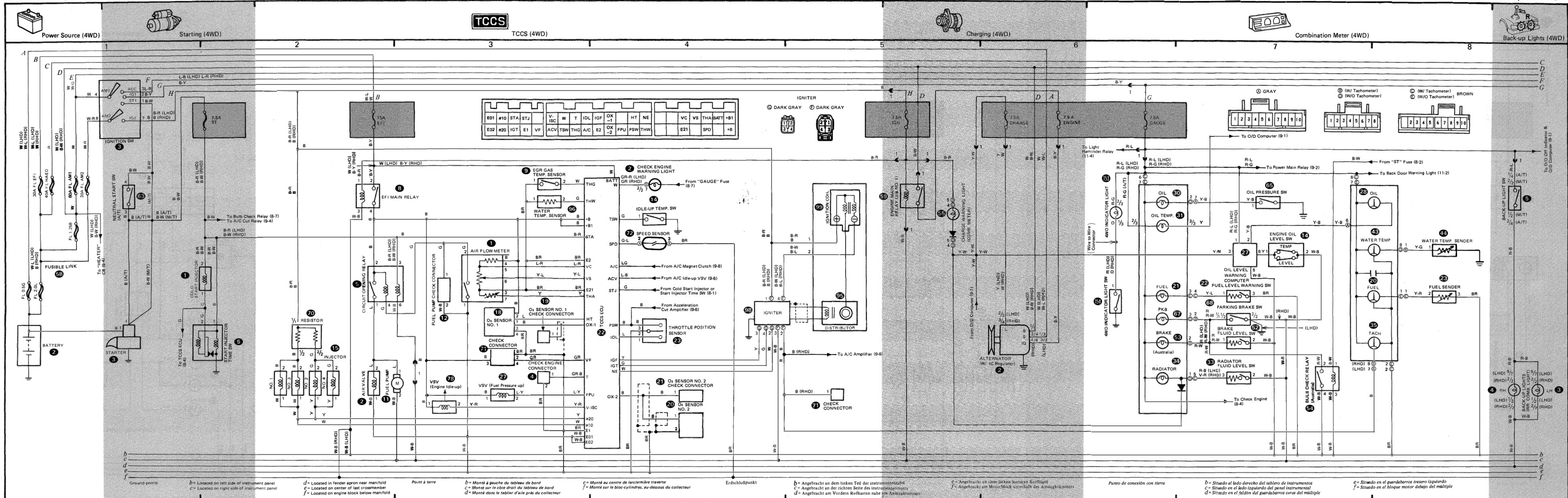


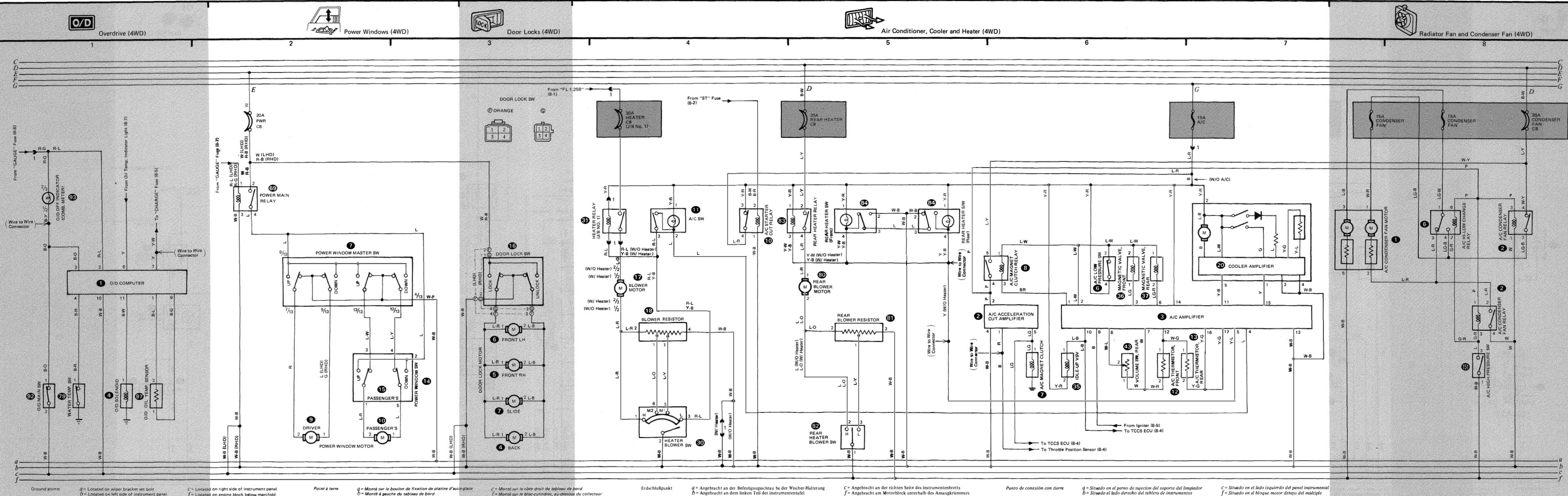
Punto de conexión con tierra
b = Situado al lado derecho del tablero de instrumentos
c = Situado en el lado izquierdo del panel instrumental
Punto de conexión con tierra
b = Situado al lado derecho del tablero de instrumentos
c = Situado en el lado izquierdo del panel instrumental
d = Situado en el faldón del guardabarros cerca del múltiple

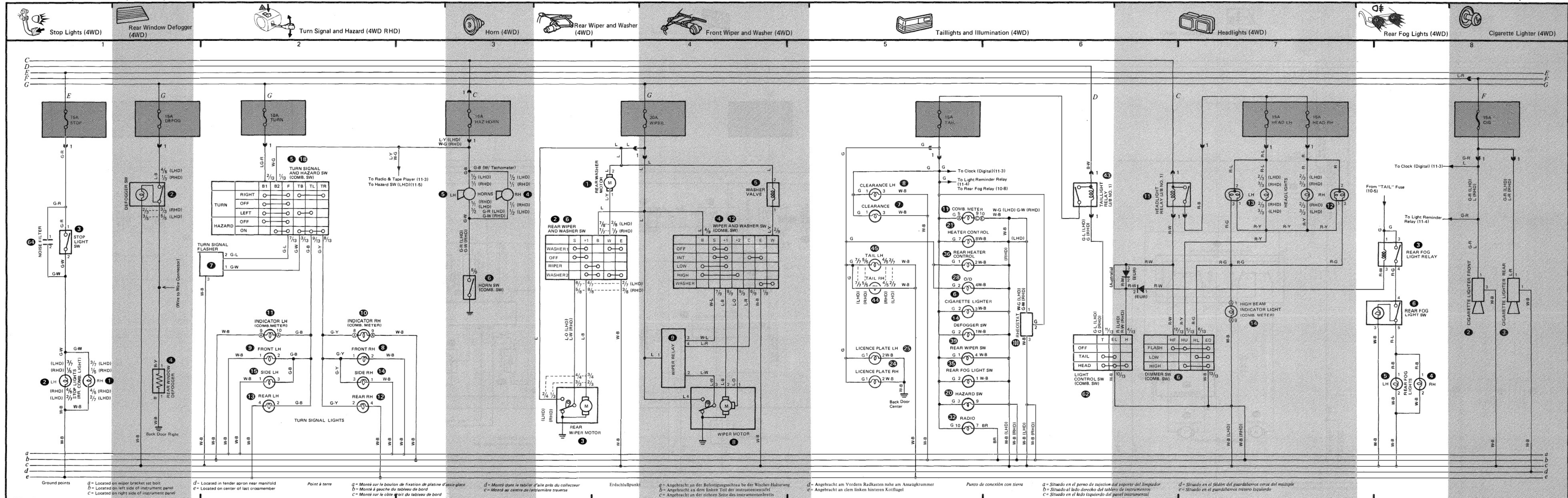








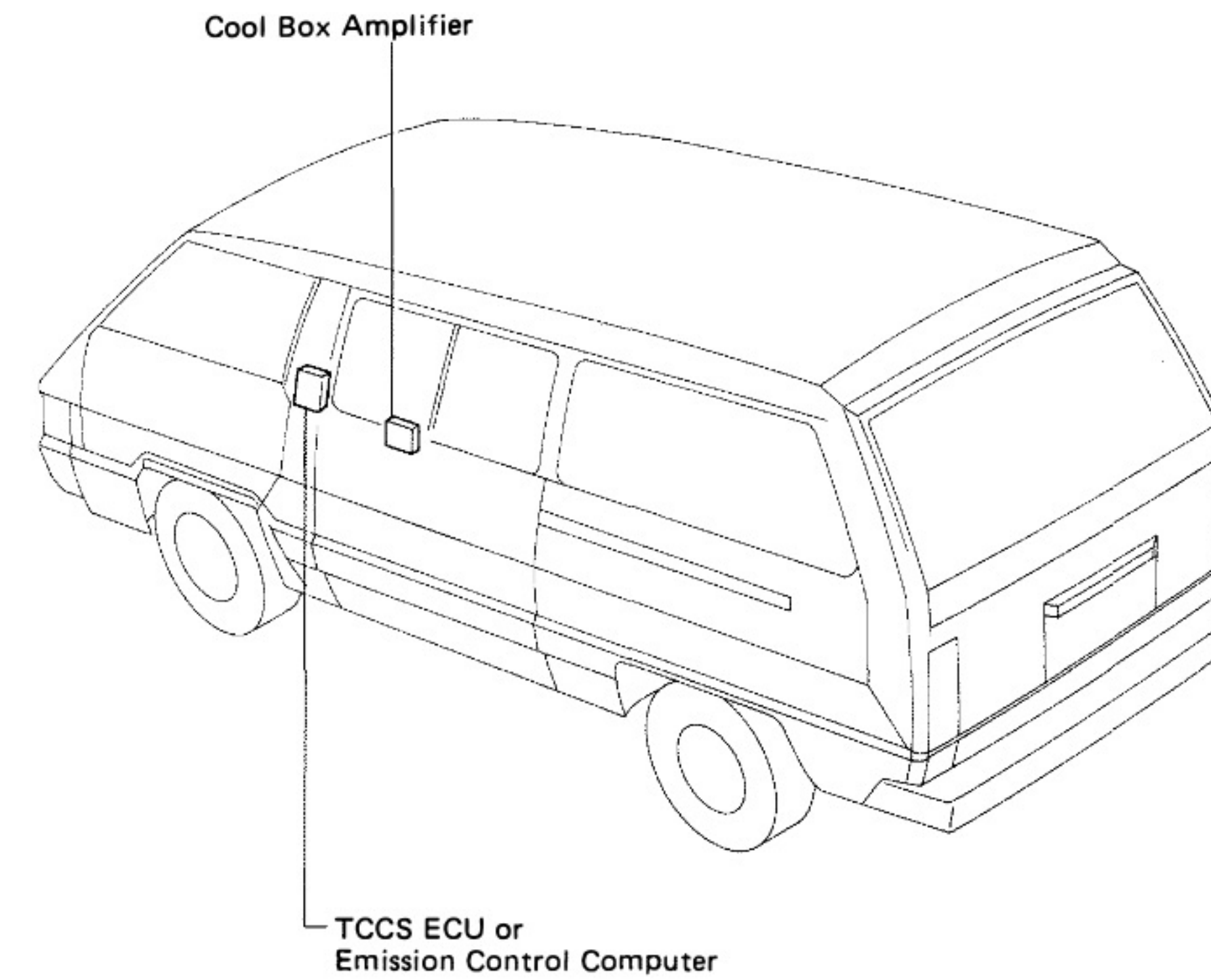




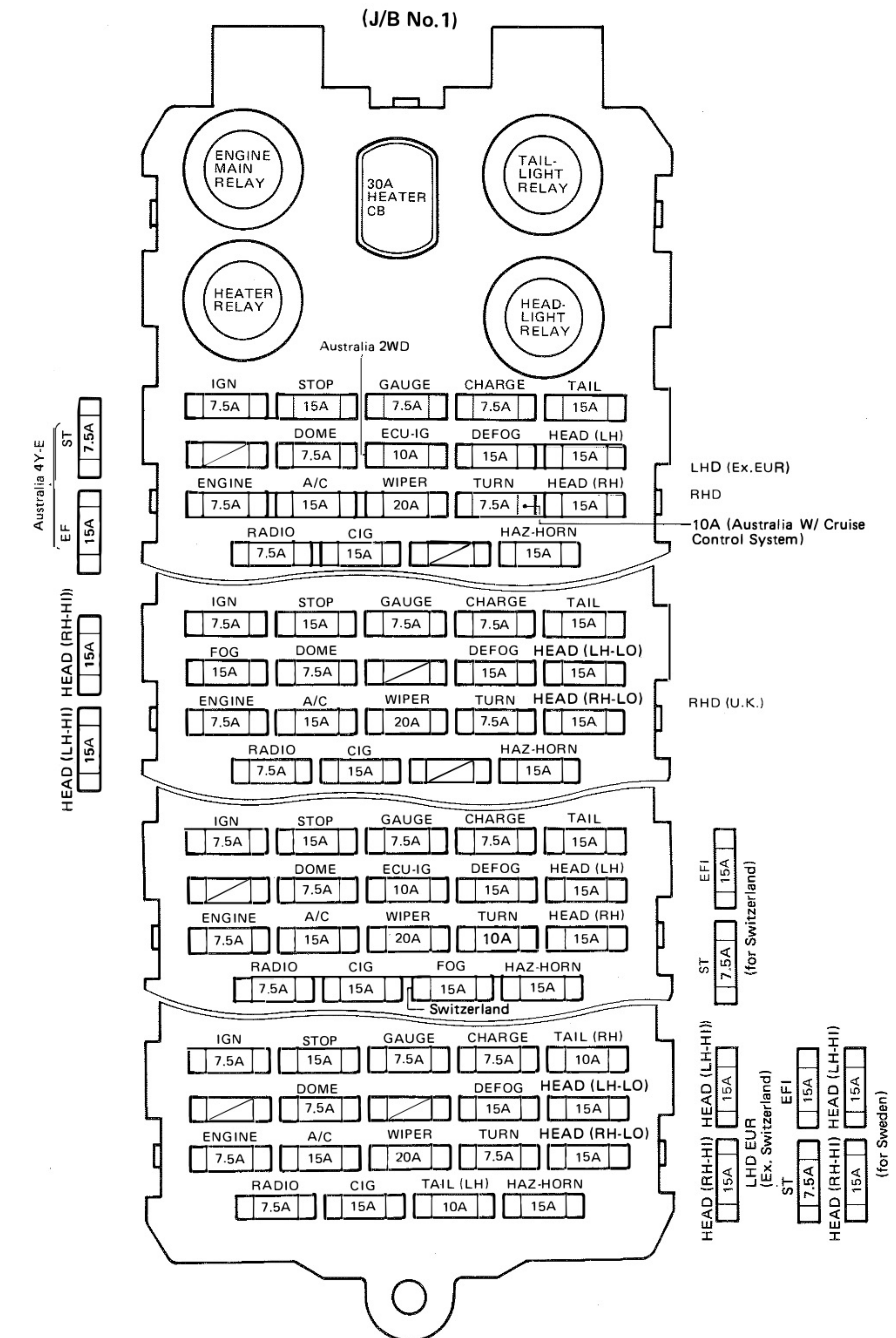
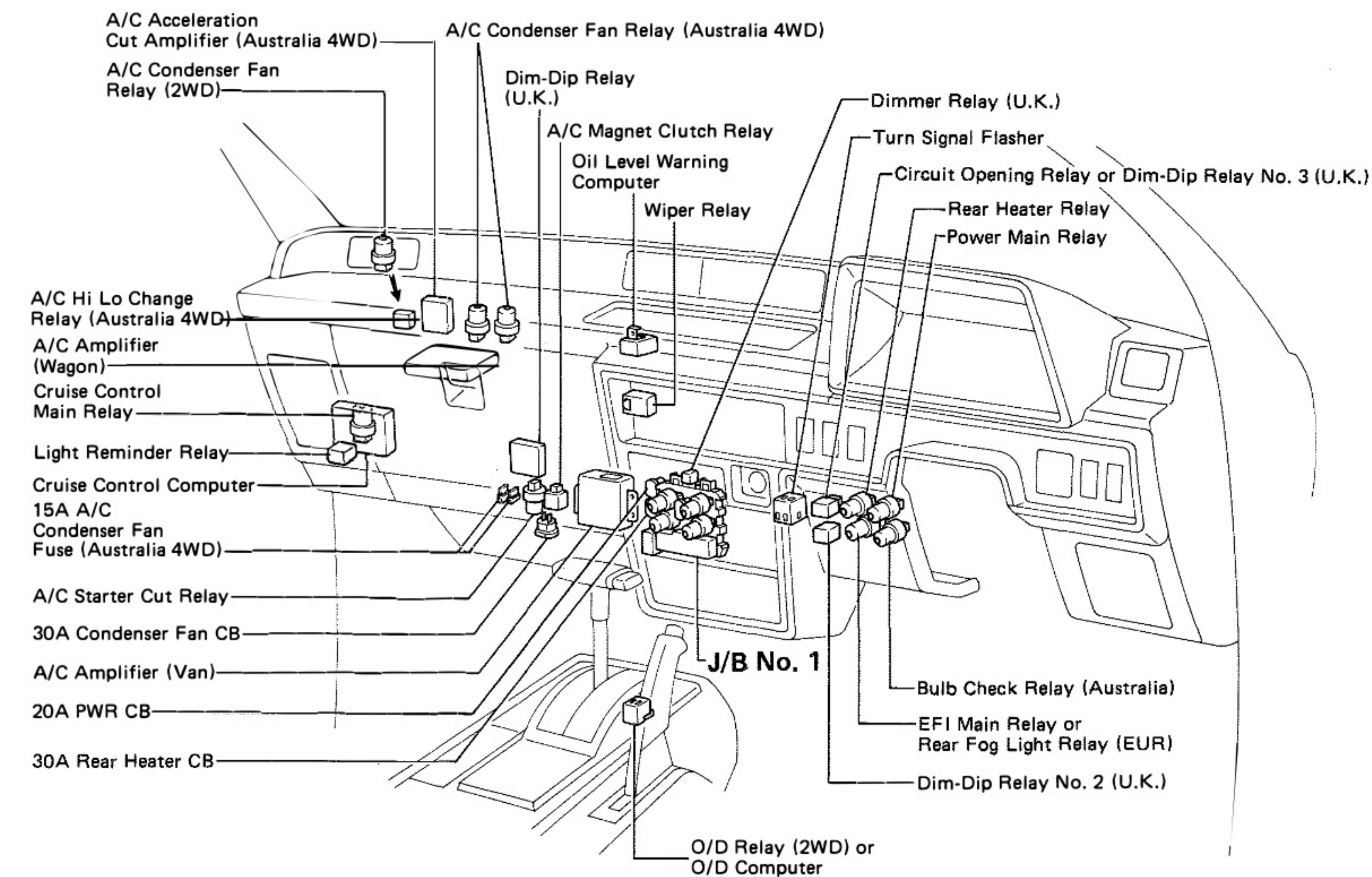


MODEL-F/TARAGO RELAY LOCATIONS

[Body]



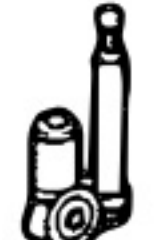
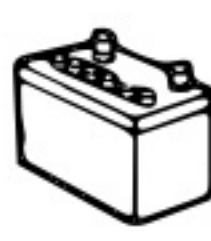
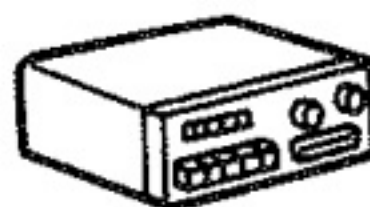
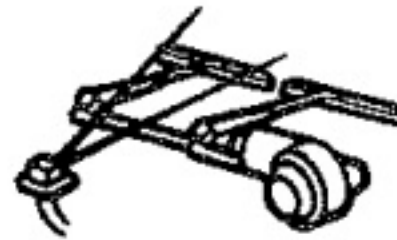
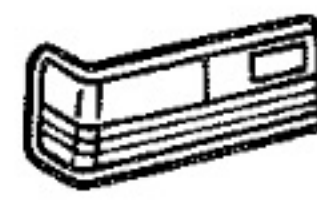
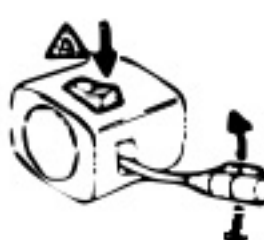
[Instrument Panel RHD]

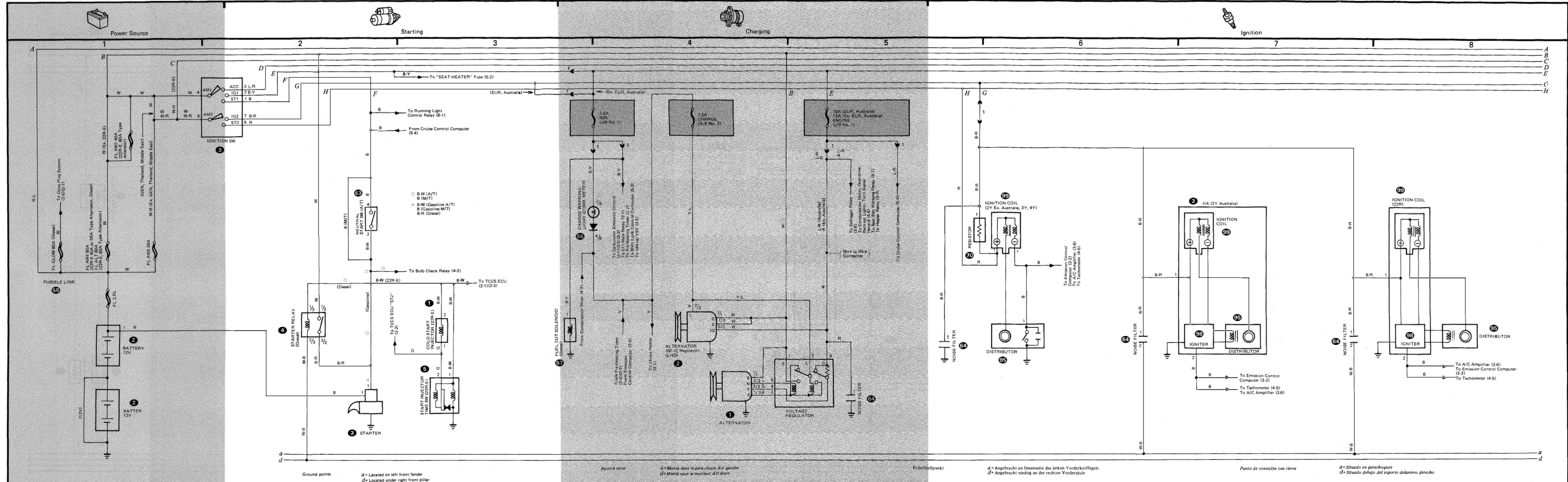


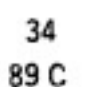
SYSTEM INDEX

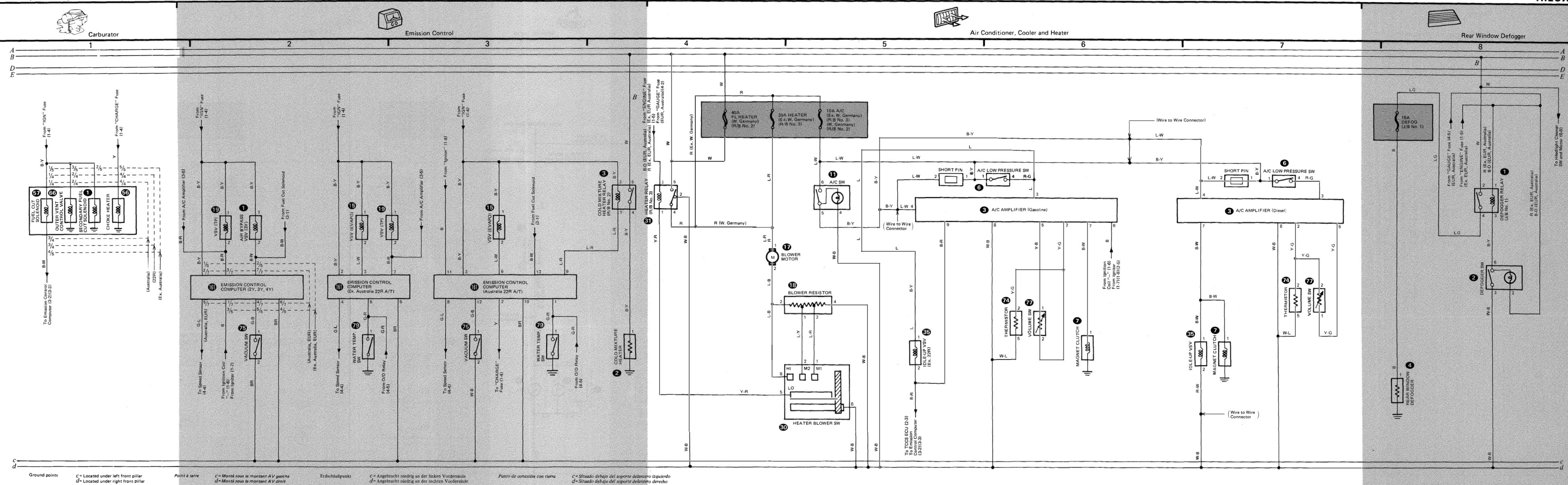
HILUX

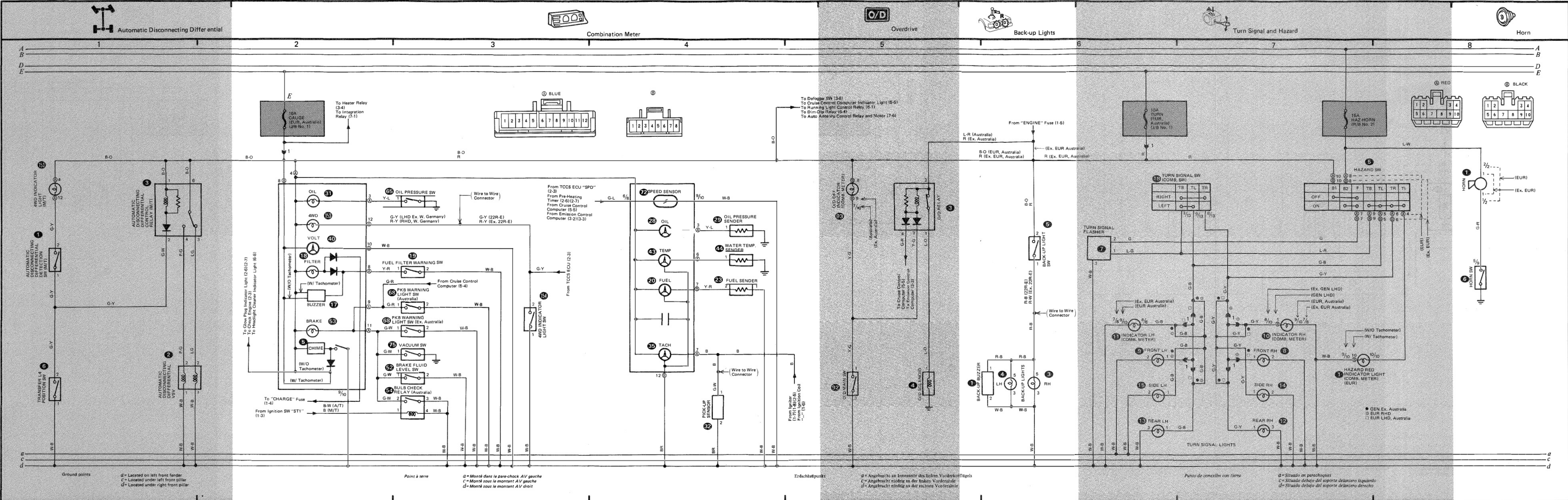
1989 Production Vehicles (Page 1 to Page 7)

SYSTEMS	LOCATION	SYSTEMS	LOCATION
Air Conditioner, Cooler and Heater	 3-6	Interior Lights	 7-1
Auto Antenna	 7-6	Light Reminder	 7-2
Automatic Disconnecting Differential	 4-1	Overdrive	 4-5
Back-Up Lights	 4-6	Power Source	 1-1
Carburetor	 3-1	Radio and Tape Player	 7-5
Charging	 1-4	Rear Fog Lights	 5-1
Cigarette Lighter	 7-4	Rear Window Defogger	 3-8
Clock	 7-3	Seat Belt Warning	 5-1
Combination Meter	 4-3	Seat Heaters	 5-2
Cruise Control	 5-5	Starting	 1-2
Emission Control	 3-2	Stop Lights	 5-3
Front Wiper and Washer	 6-7	Taillights and Illumination	 5-7
Fuel Heater	 2-8	TCCS	 2-3 (22R-E)
Glow Plugs	 2-6	Turn Signal and Hazard	 4-7
Headlight Cleaner	 6-8		
Headlights	 6-1 (Norway) 6-4 (U.K.) 6-6		
Horn	 4-8		
Ignition	 1-7		











Seat Belt Warning



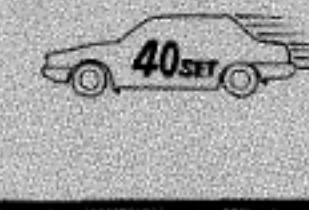
Rear Fog Lights



Seat Heaters



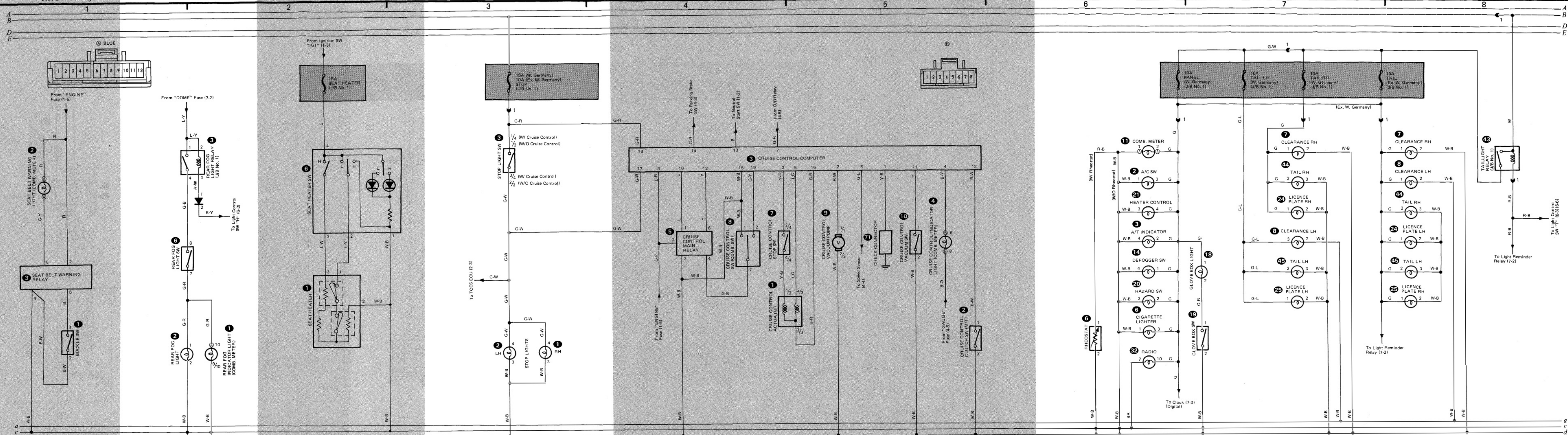
Stop Lights



Cruise Control



Taillights and Illumination



Ground points
 a = Located on left front fender
 c = Located under left front pillar
 d = Located under right front pillar

Point à terre
 a = Monté dans le pare-choc AV gauche
 c = Monté sous le montant AV gauche
 d = Monté sous le montant AV droit

Erdschlusspunkt
 a = Angebracht an Innenseite des linken Vorderkotflügels
 c = Angebracht niedrig an der linken Vordersäule
 d = Angebracht niedrig an der rechten Vordersäule

Punto de conexión con tierra

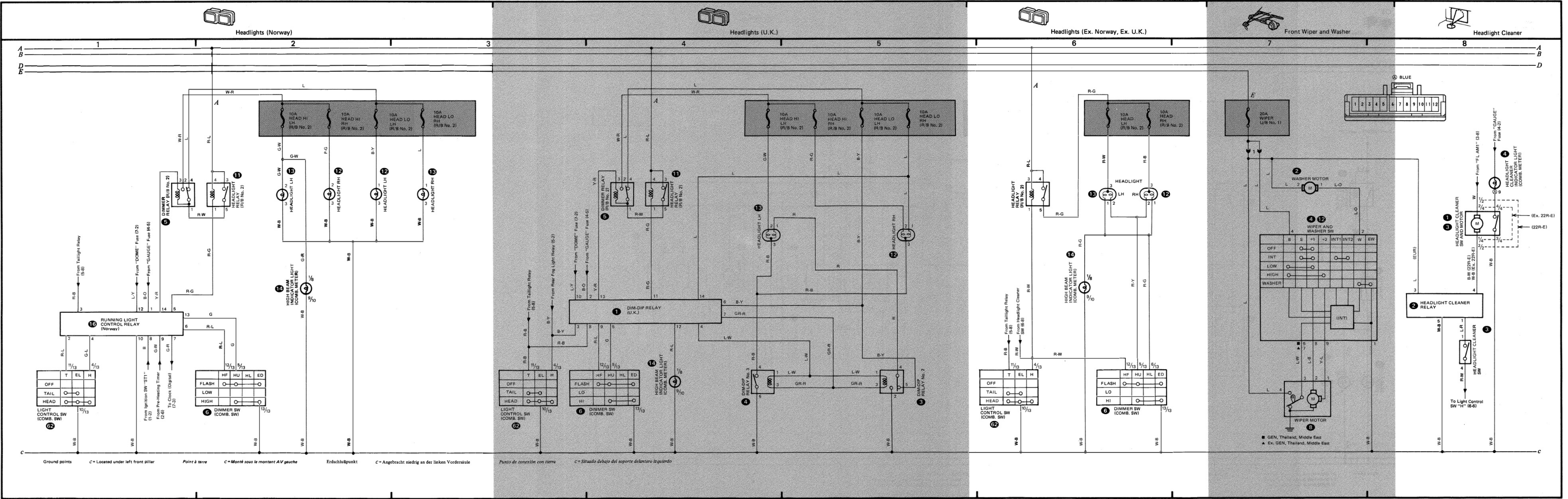
a = Situado en parachoques
 c = Situado debajo del soporte delantero izquierdo
 d = Situado debajo del soporte delantero derecho

To Light Control SW "T" (63)(64)

To Light Reminder Relay (7-2)

To Clock (7-3) (Digital)

To Clock (7-3) (Digital)





Interior Lights



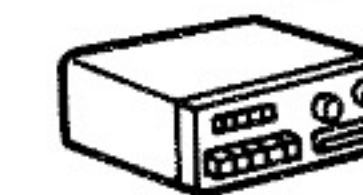
Light Reminder



Clock



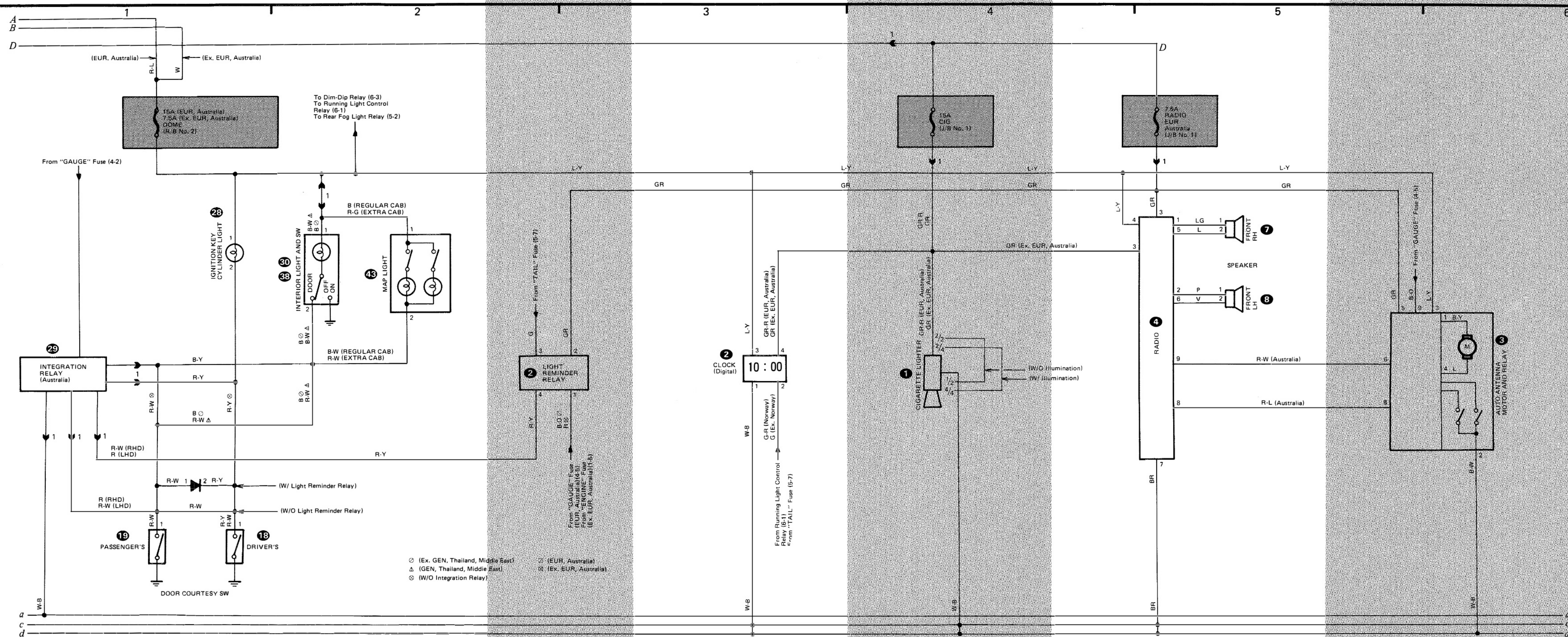
Cigarette Lighter



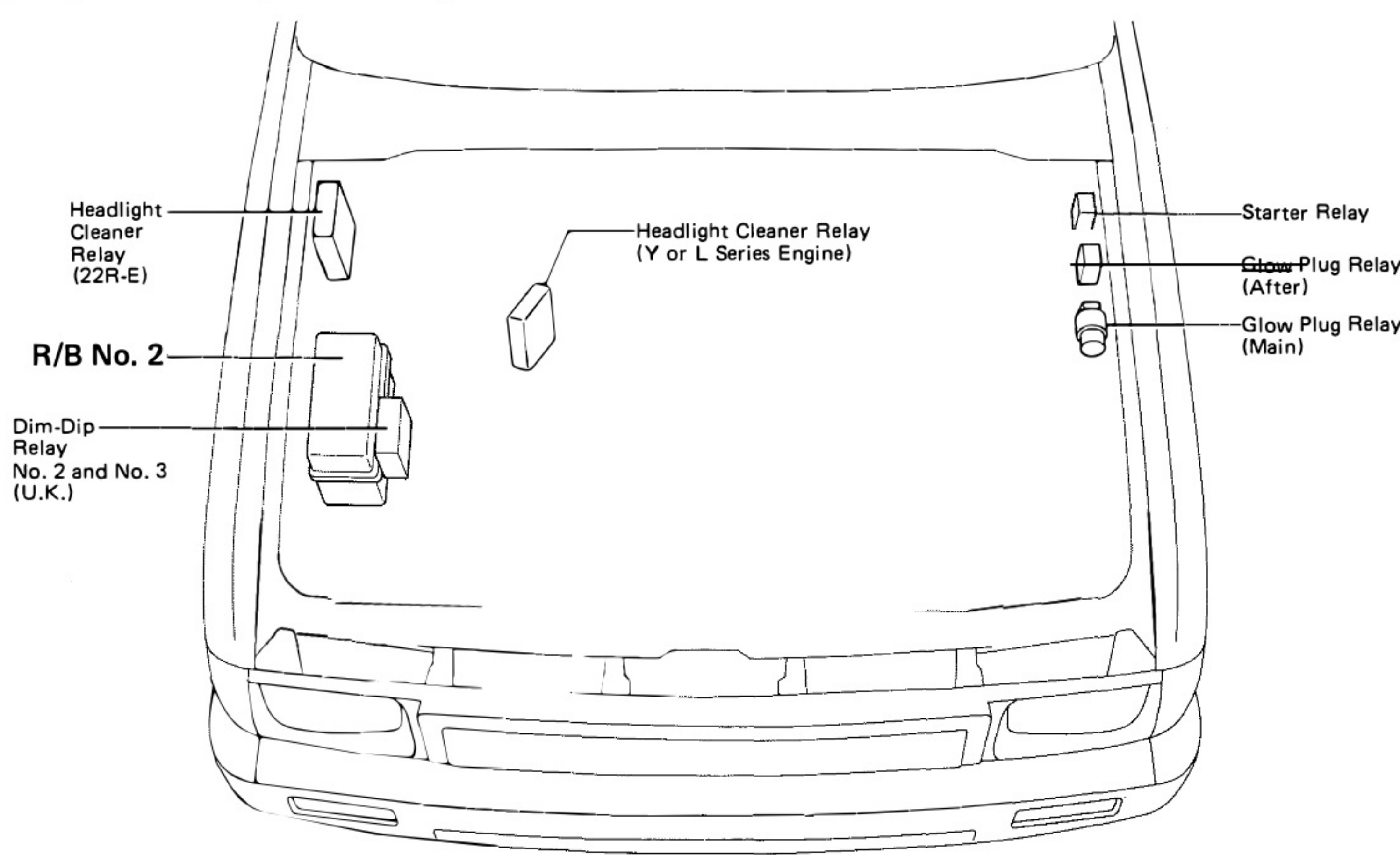
Radio and Tape Player



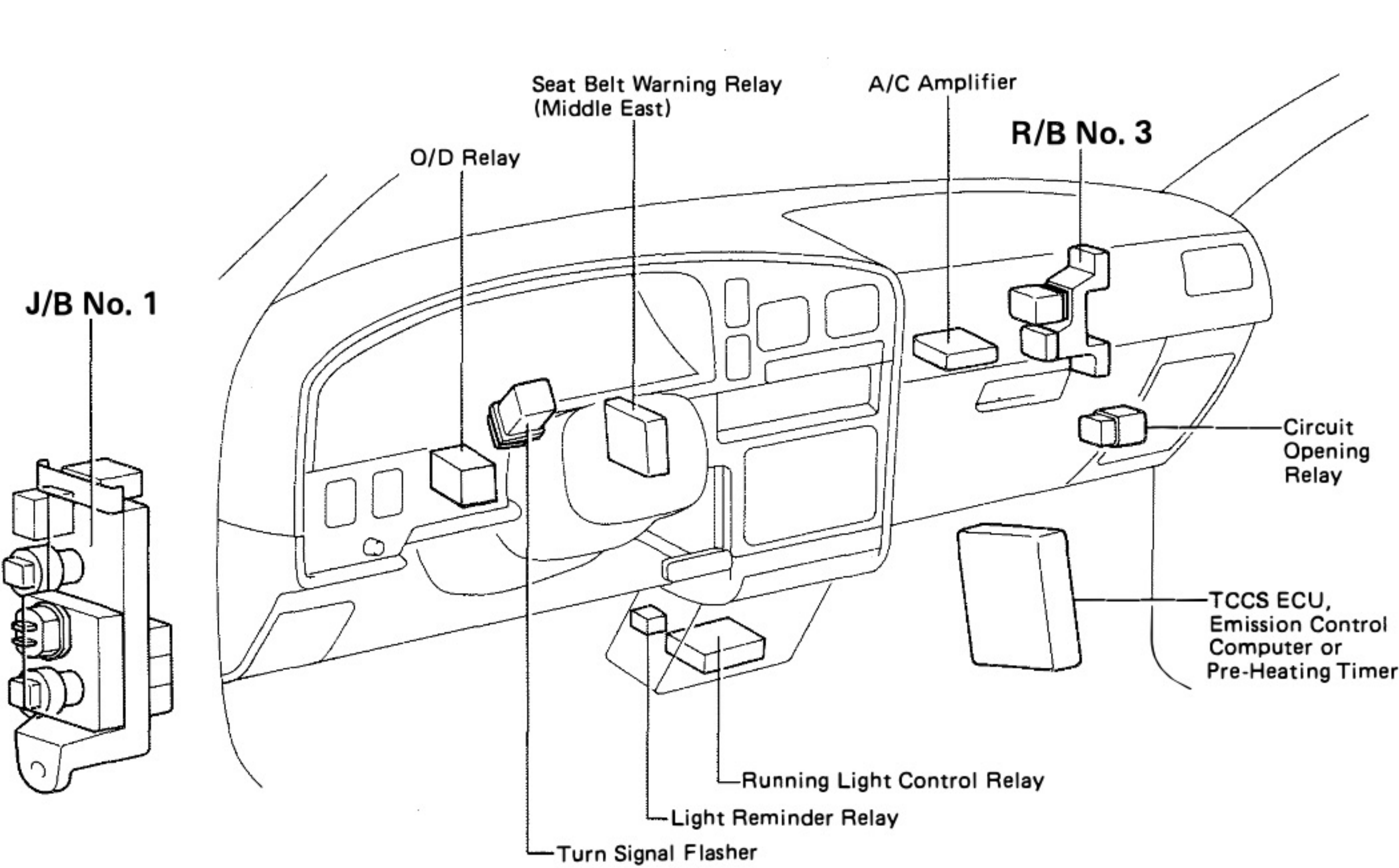
Auto Antenna



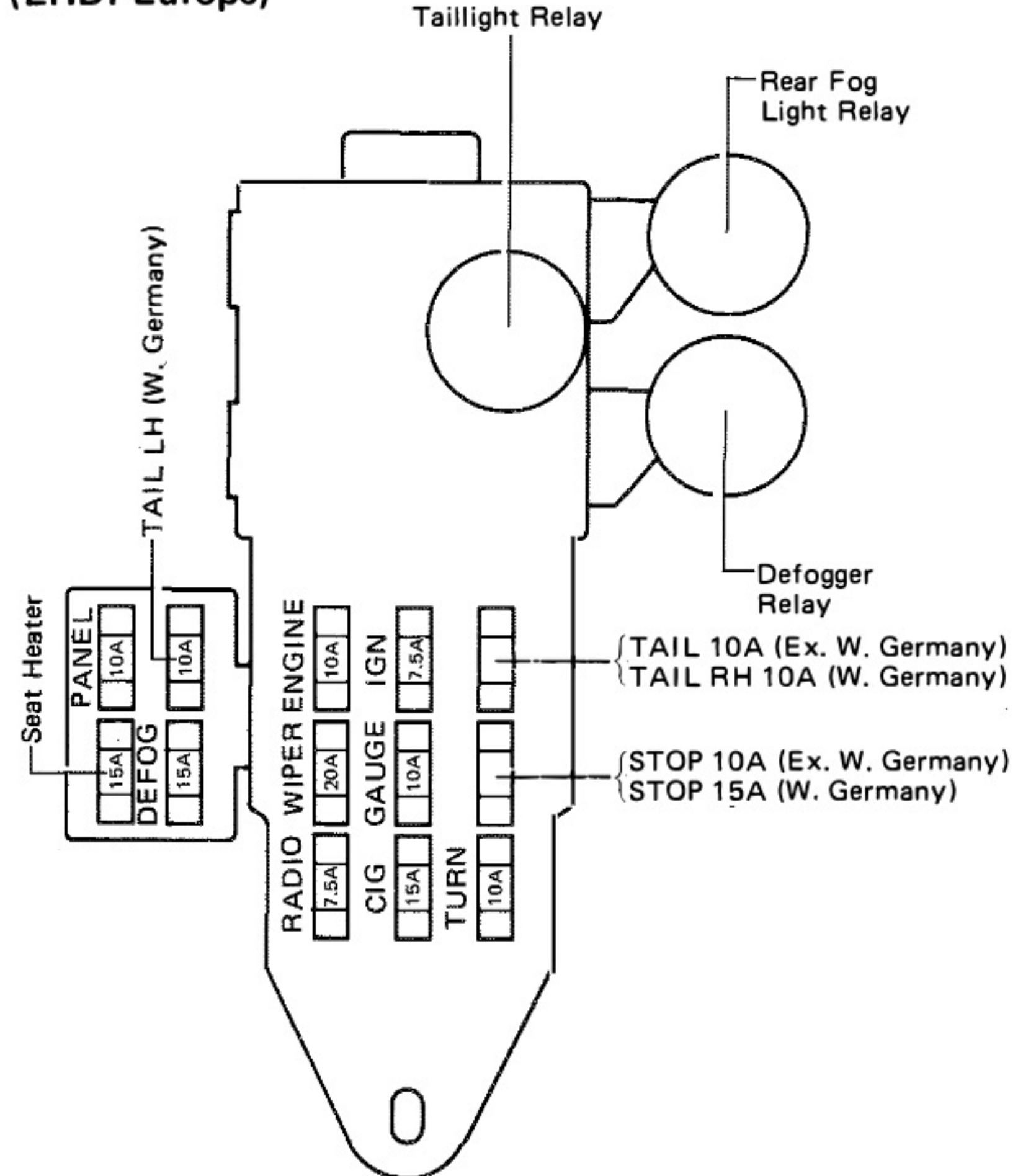
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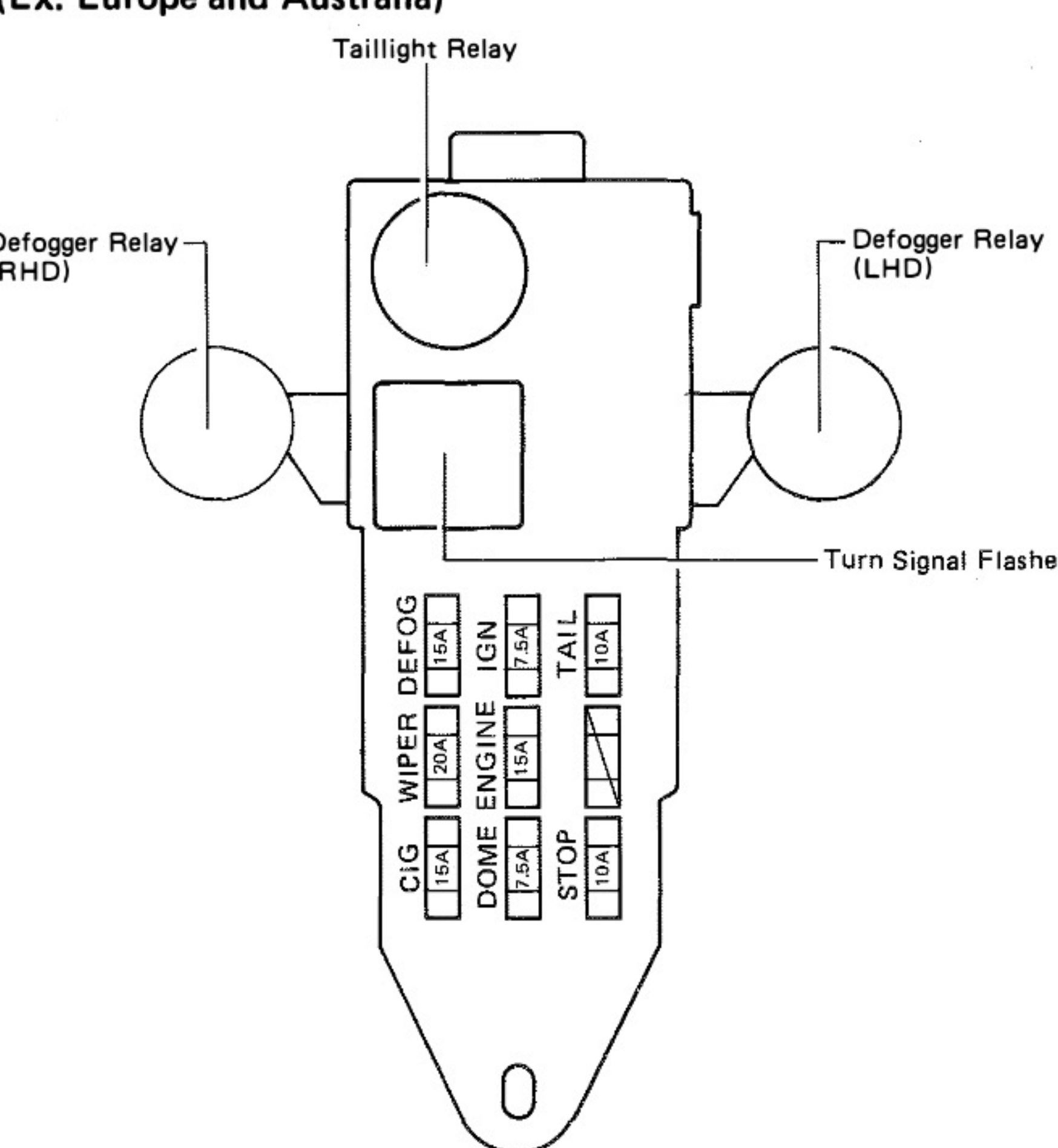
[Instrument Panel LHD]



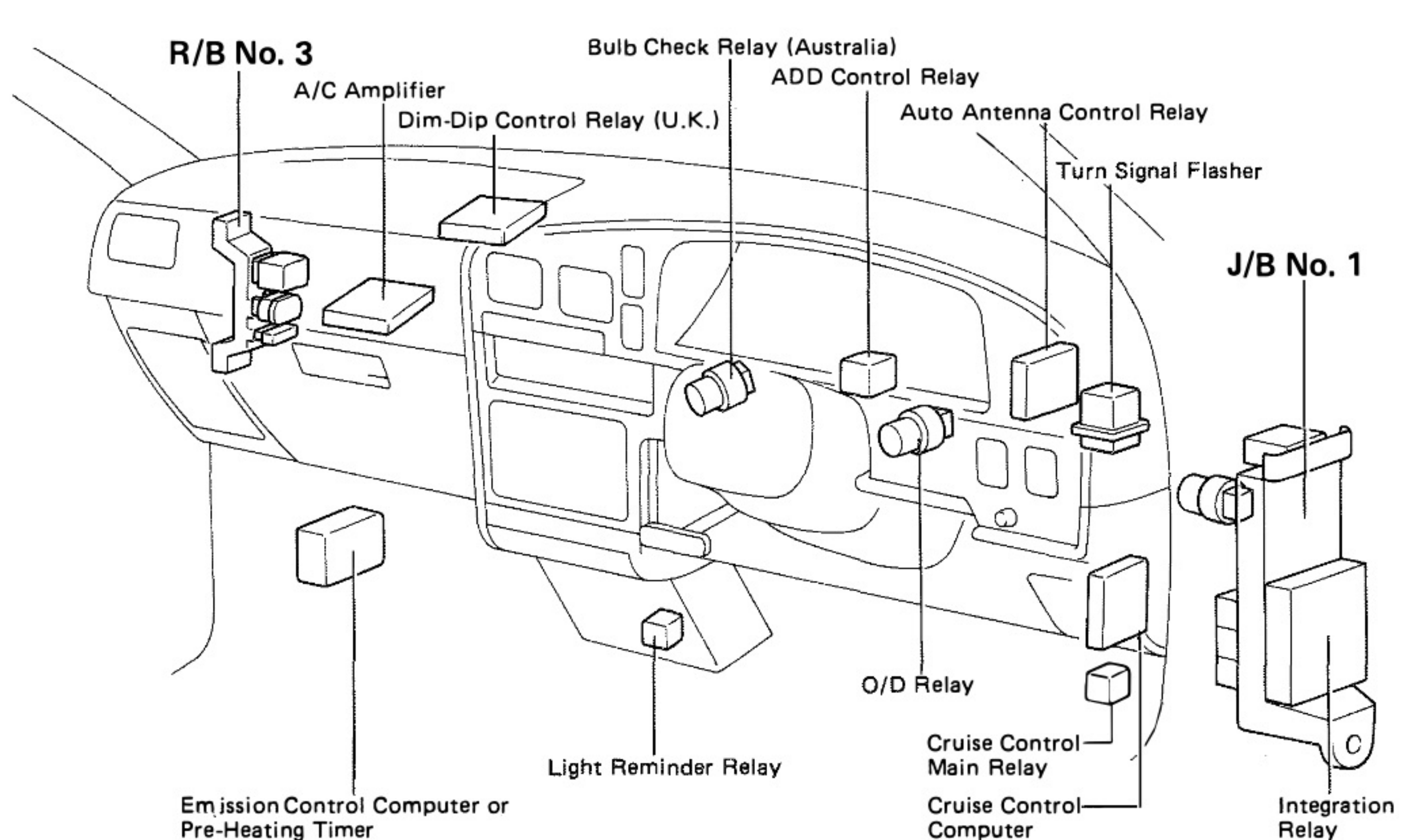
J/B No. 1 (LHD: Europe)



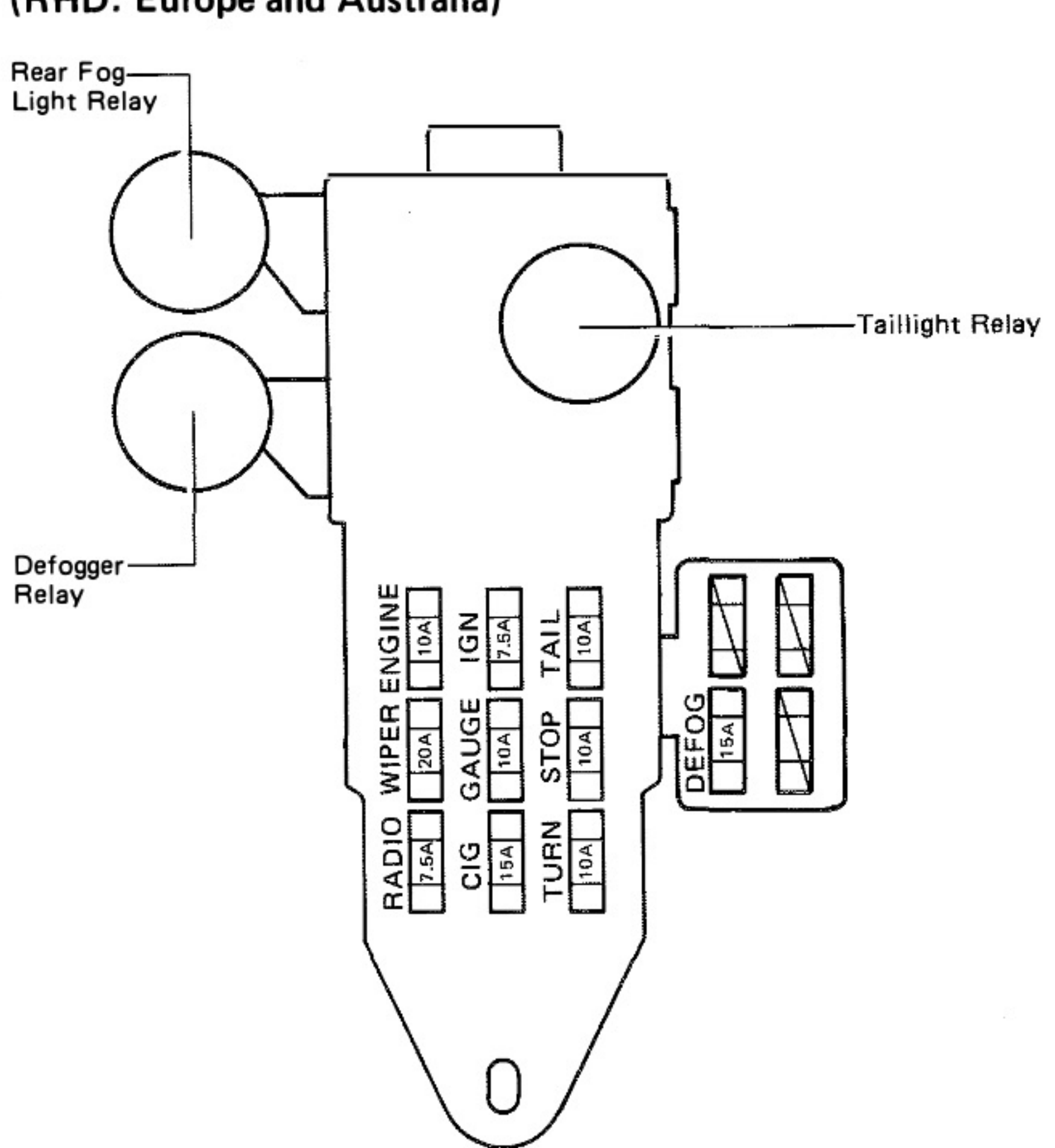
J/B No. 1 (Ex. Europe and Australia)



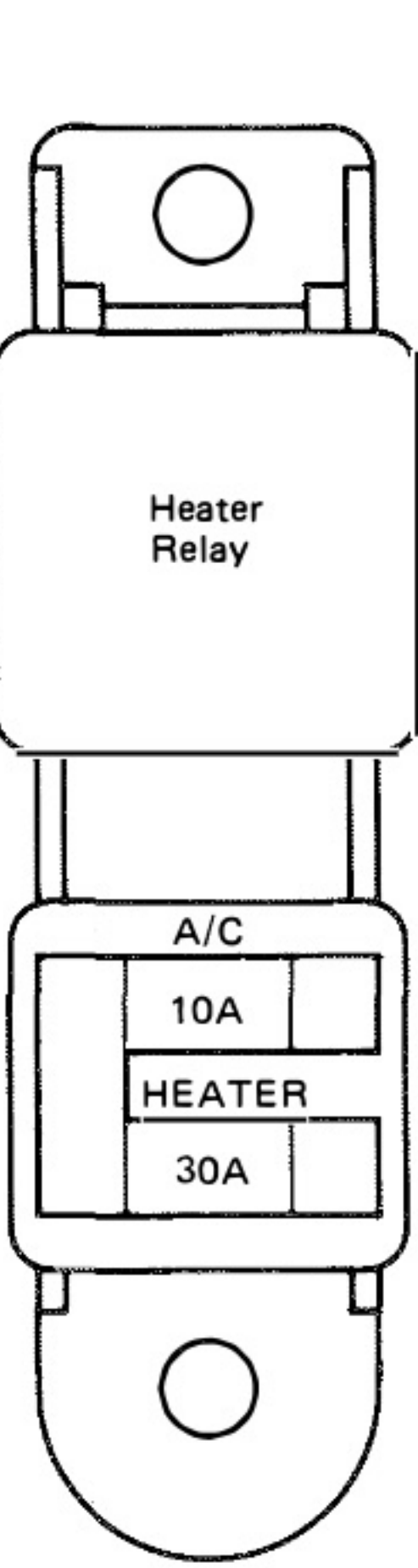
[Instrument Panel RHD]



J/B No. 1 (RHD: Europe and Australia)



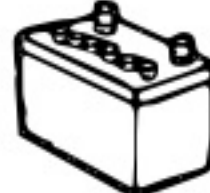
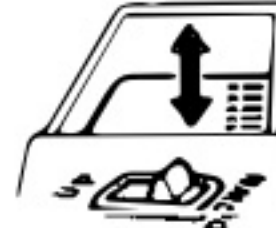
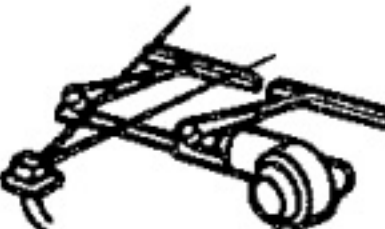
R/B No. 3

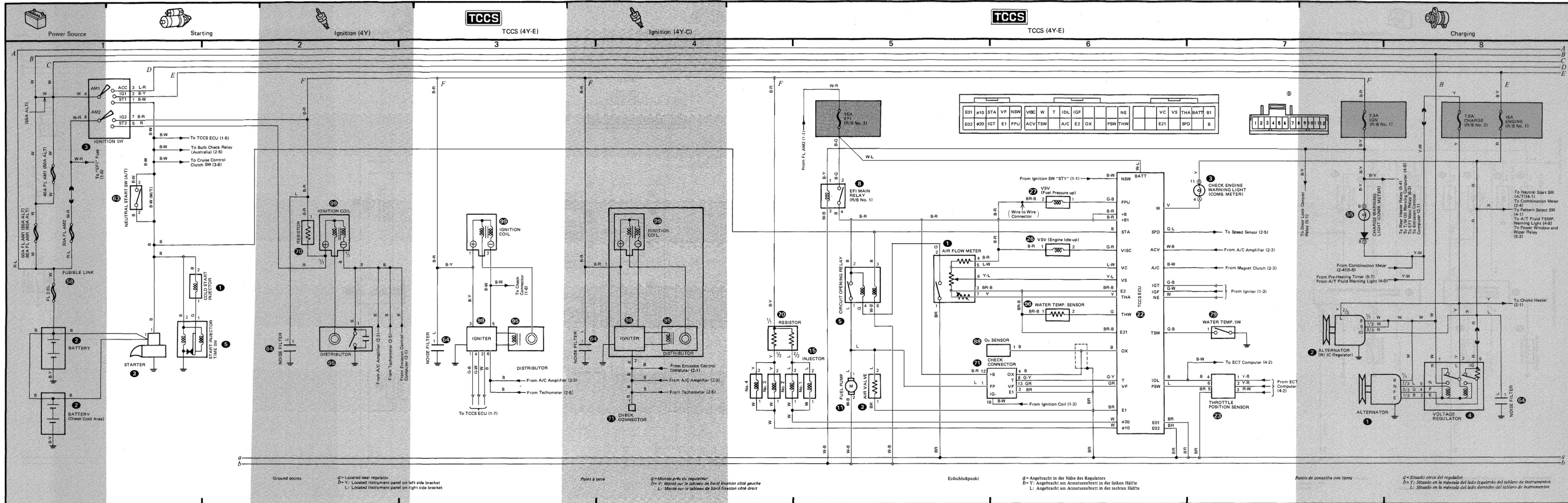


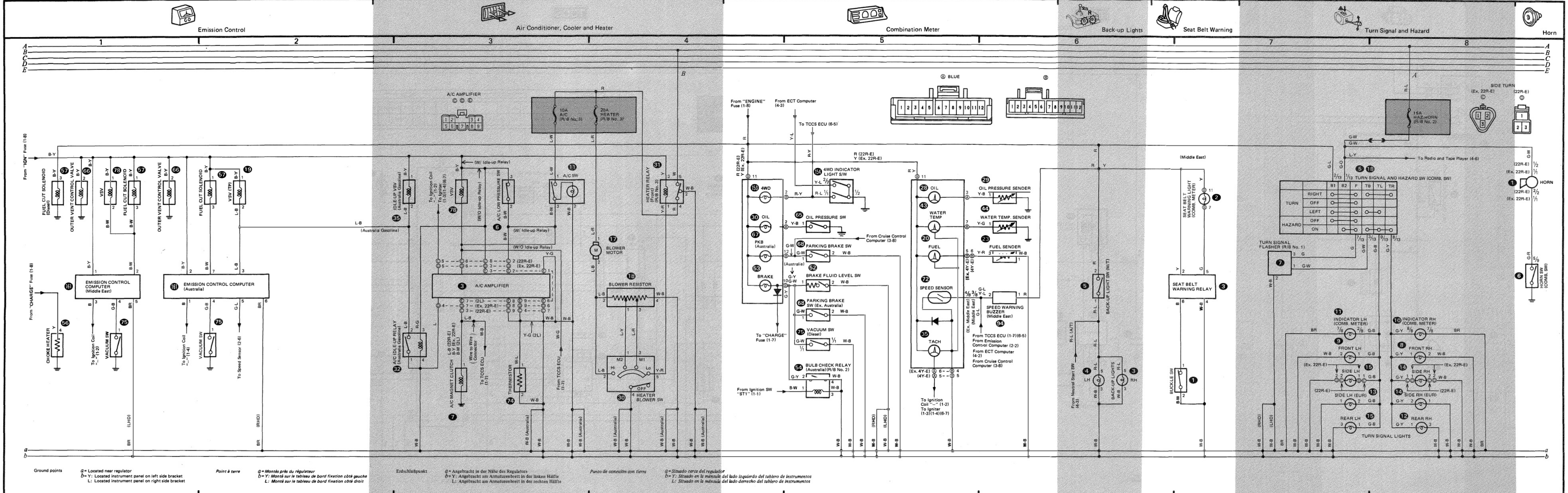
SYSTEMINDEX

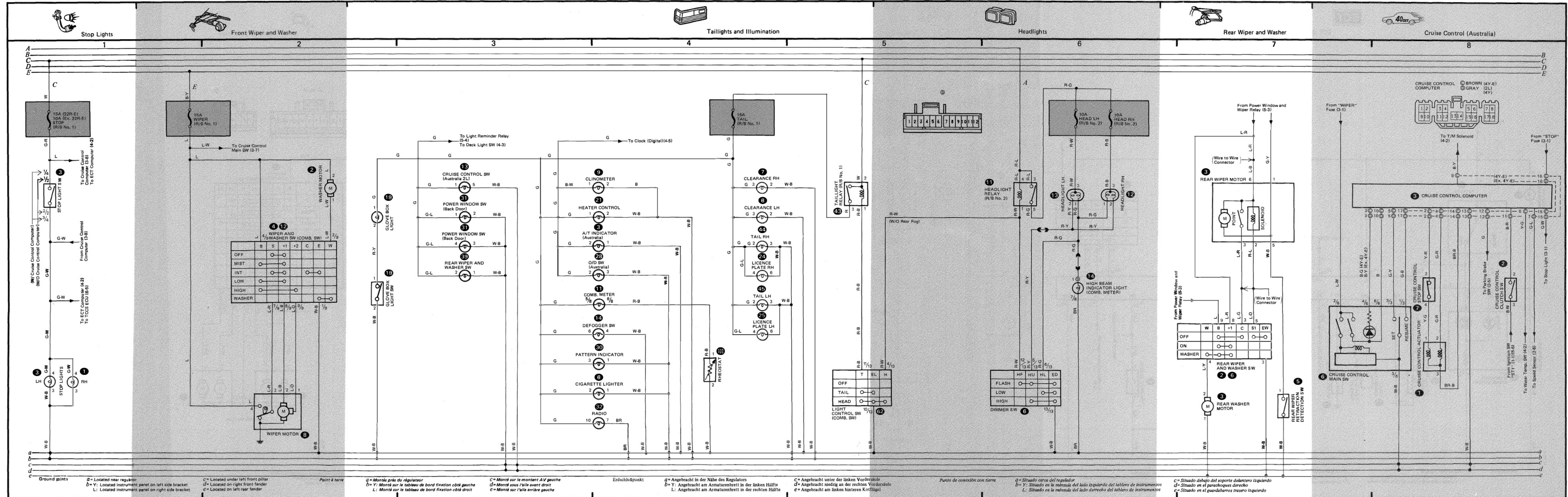
4 RUNNER

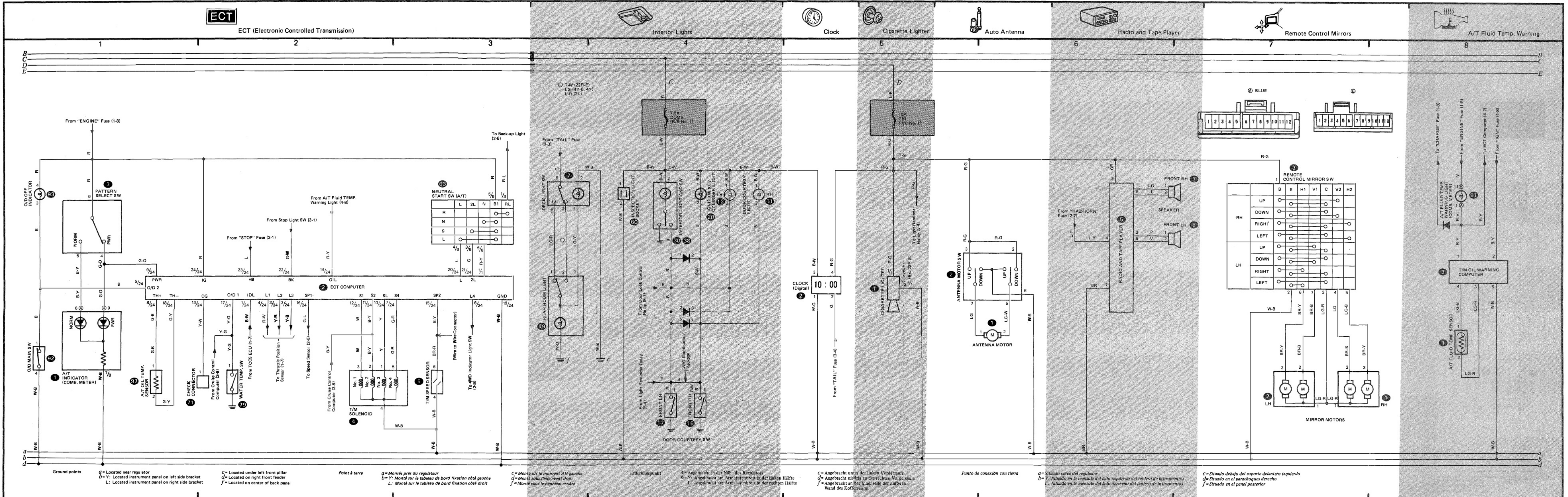
1989 Production Vehicles (Page 1 to Page 6)

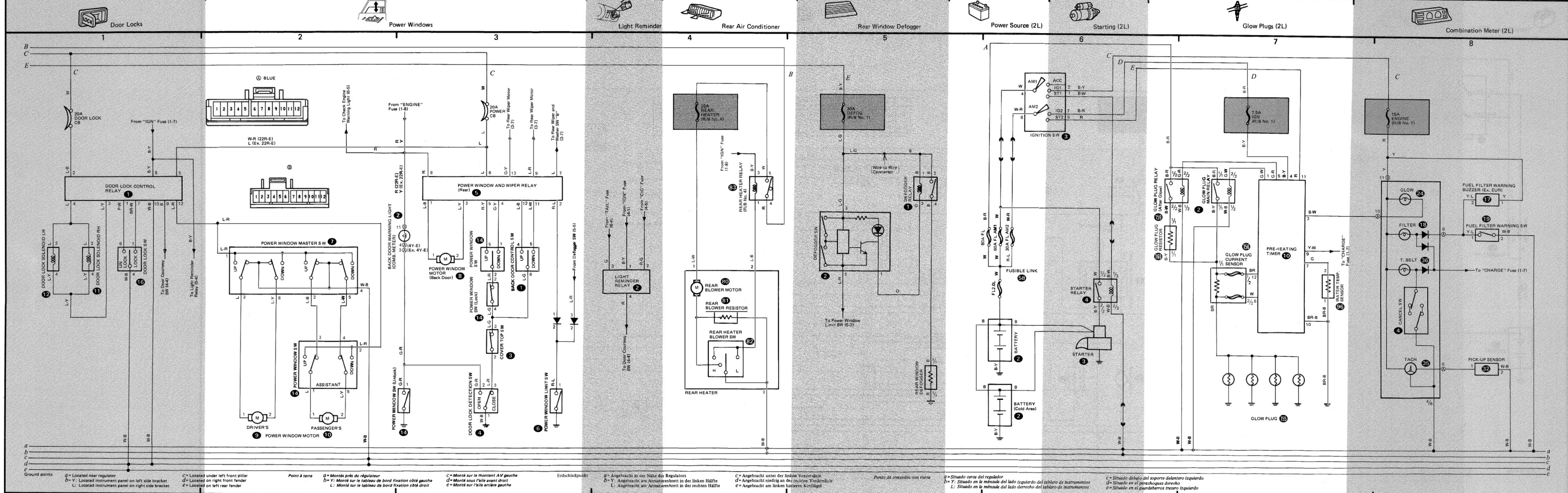
SYSTEMS	LOCATION	SYSTEMS	LOCATION
Air Conditioner, Cooler and Heater	 2-3	Light Reminder	 5-3
Auto Antenna	 4-6	Power Source	 1-1 5-6 (2L) 6-1 (22R-E)
A/T fluid Temp. Warning	 4-8	Power Windows	 5-2
Back-Up Lights	 2-6	Radio and Tape Player	 4-6
Charging	 1-8	Rear Air Conditioner	 5-4
Cigarette Lighter	 4-5	Rear Window Defogger	 5-5
Clock	 4-5	Rear Wiper and Washer	 3-7
Combination Meter	 2-5 (Ex. 2L) 5-8 (2L)	Remote Control Mirrors	 4-7
Cruise Control	 3-8	Seat Belt Warning	 2-7
Door Locks	 5-1	Starting	 1-1 5-6 (2L) 6-1 (22R-E)
ECT	 4-2	Stop Lights	 3-1
Emission Control	 2-1	Taillights and Illumination	 3-4
Front Wiper and Washer	 3-2	TCCS	 1-3 1-6 (4Y-E) 6-4 (22R-E)
Glow Plugs	 5-7 (2L)	Turn Signal and Hazard	 2-7
Headlights	 3-5		
Horn	 2-8		
Ignition	 1-2 (4Y) 1-4 (4Y-C)		
Interior Lights	 4-4		

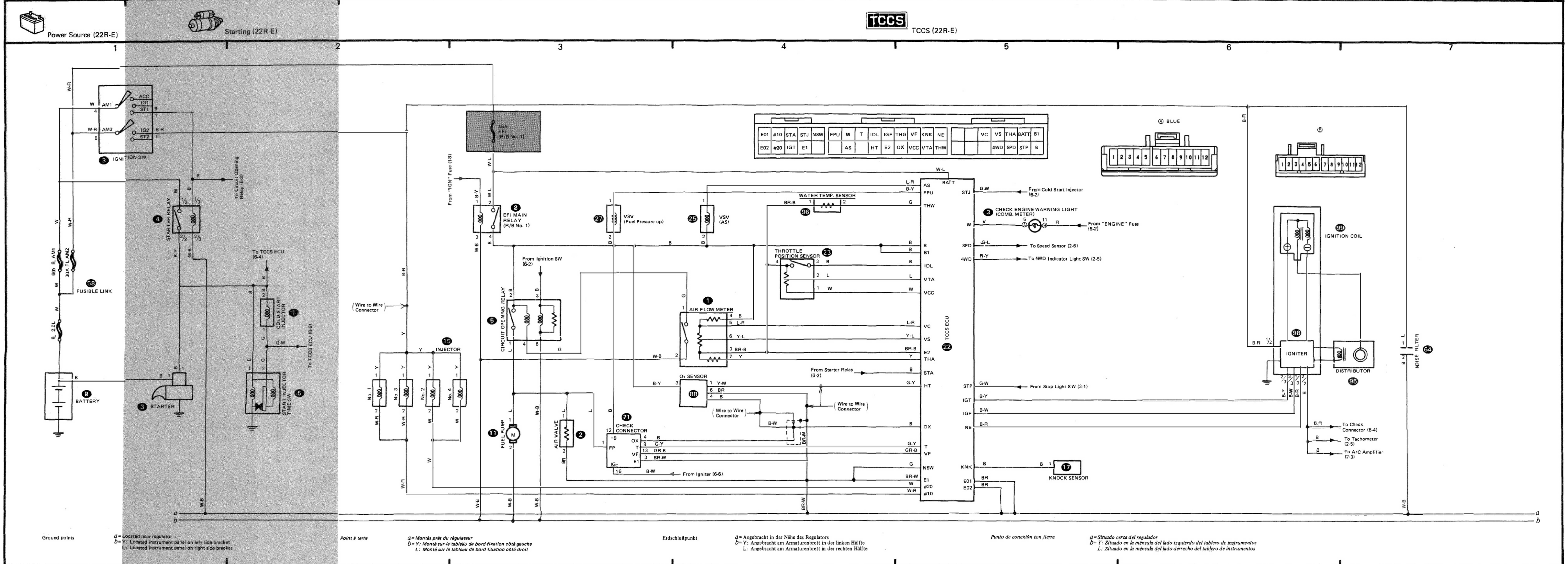








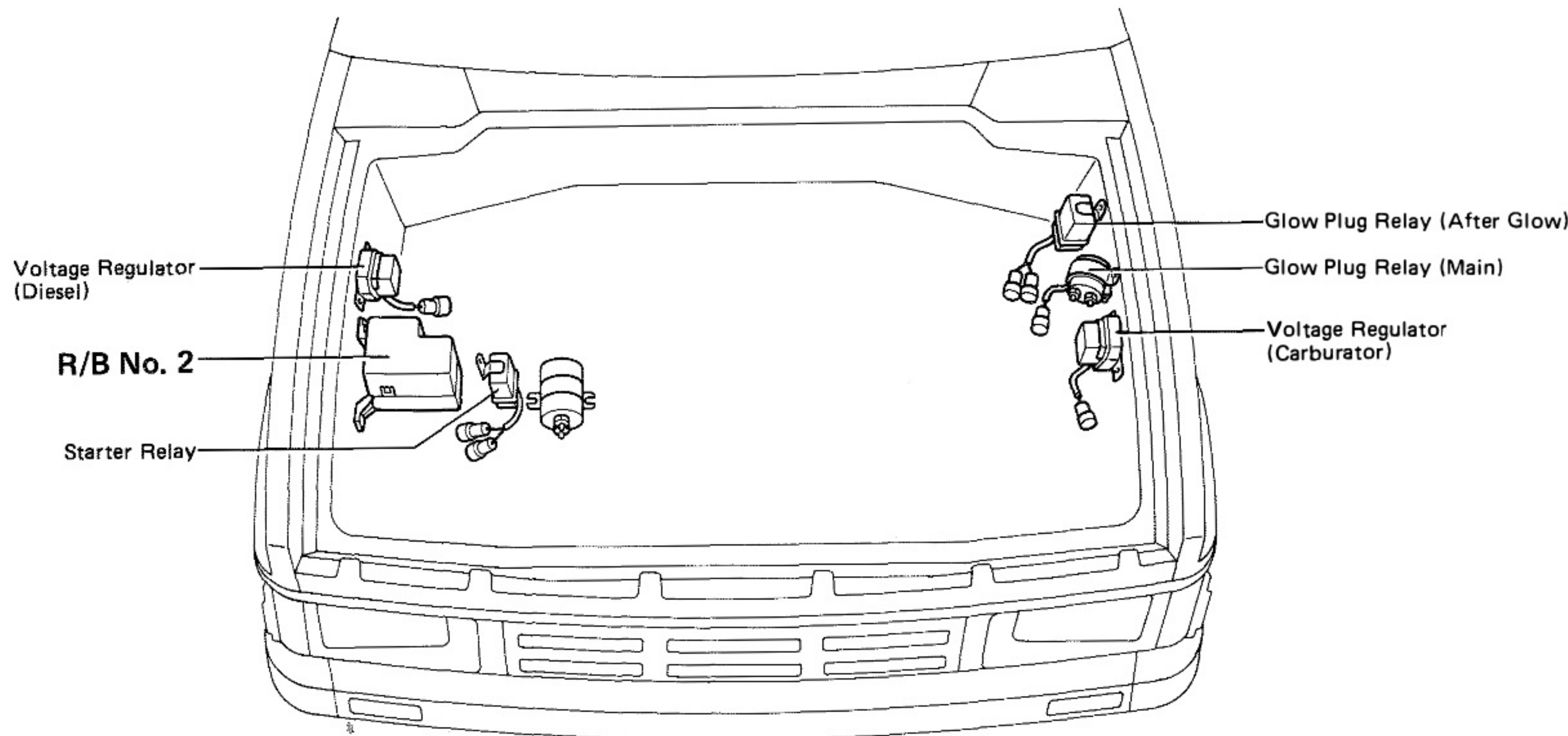




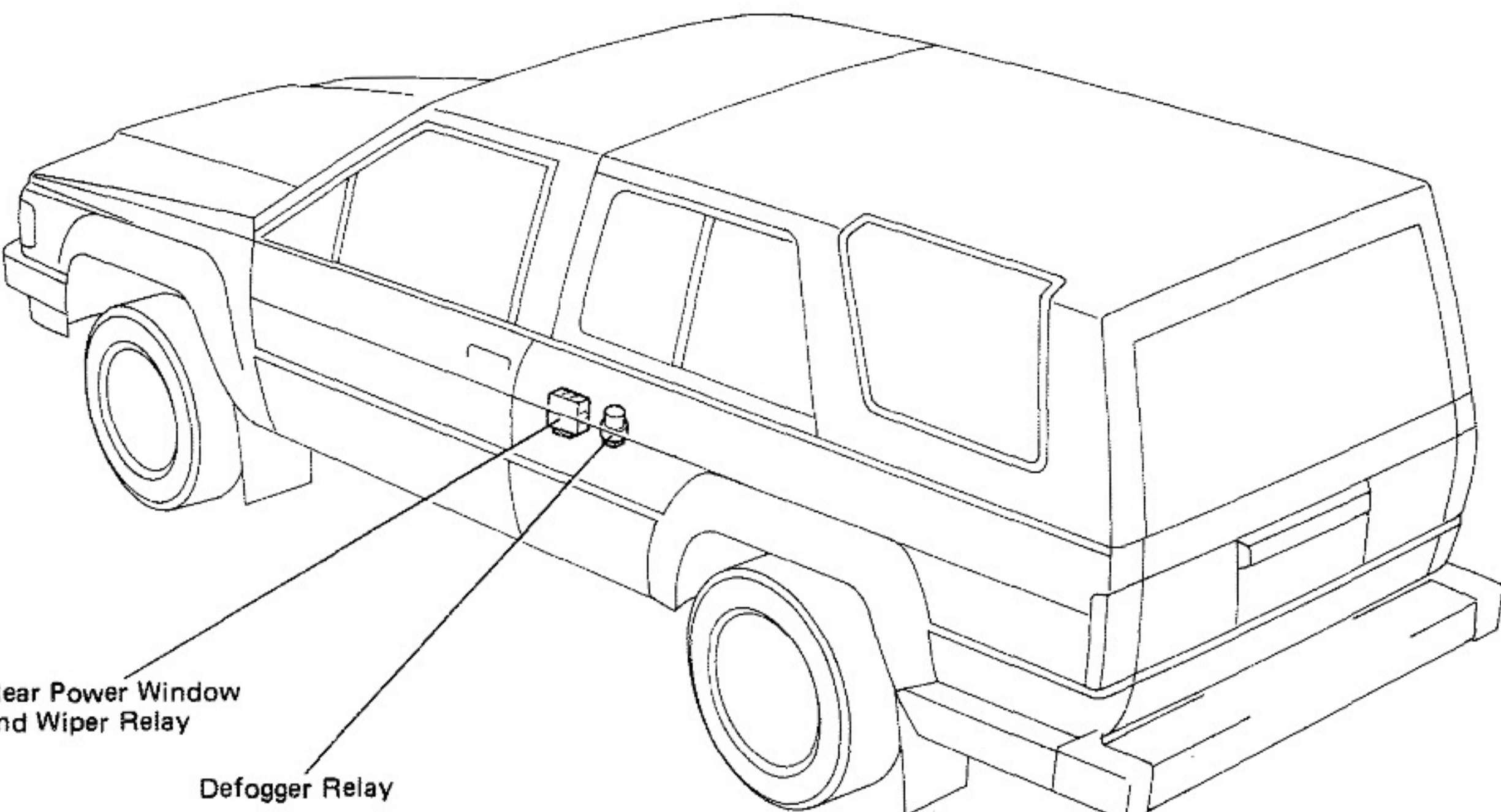
4 RUNNER RELAY LOCATIONS

4 RUNNER RELAY LOCATIONS

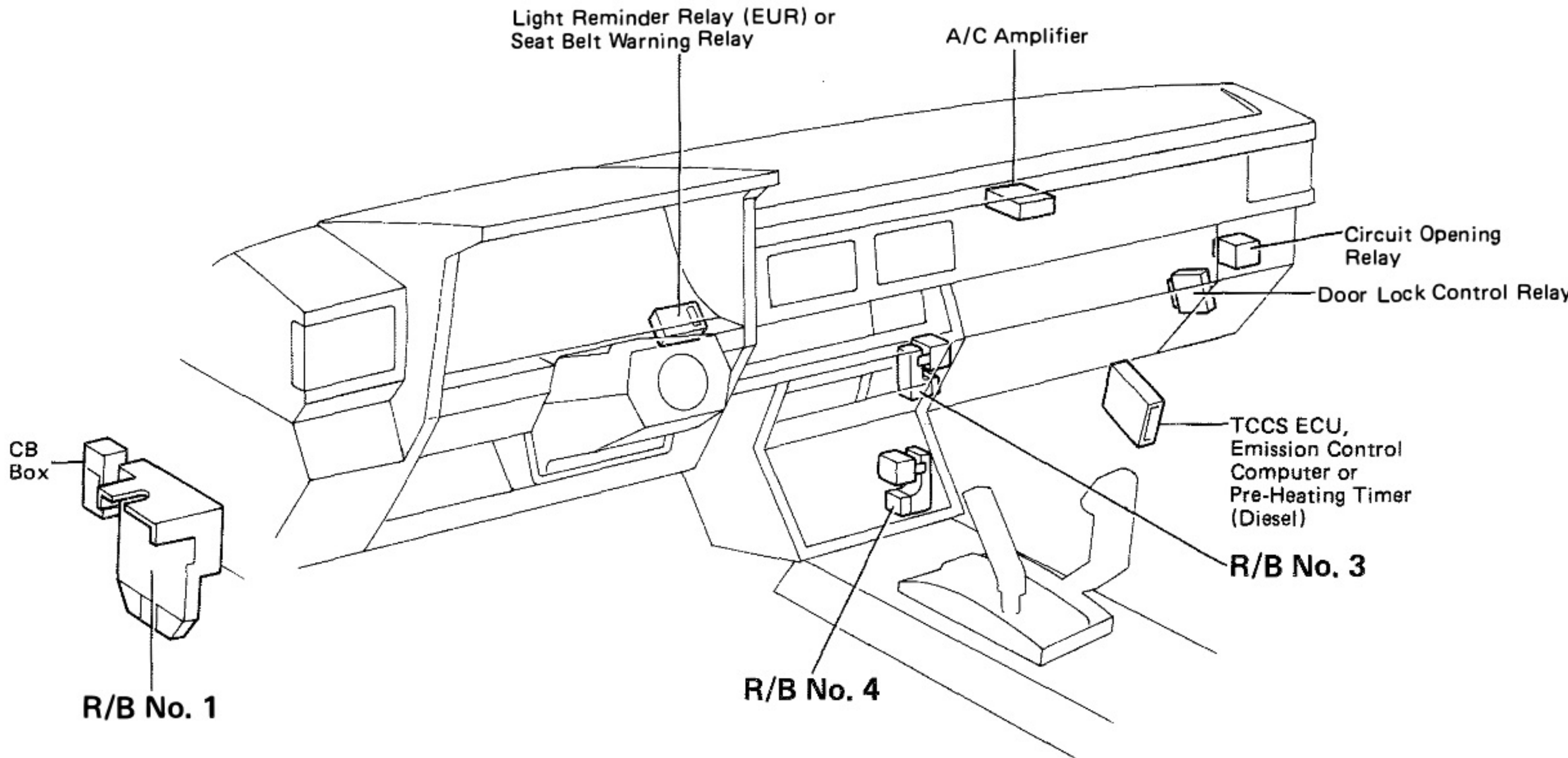
[Engine Compartment]



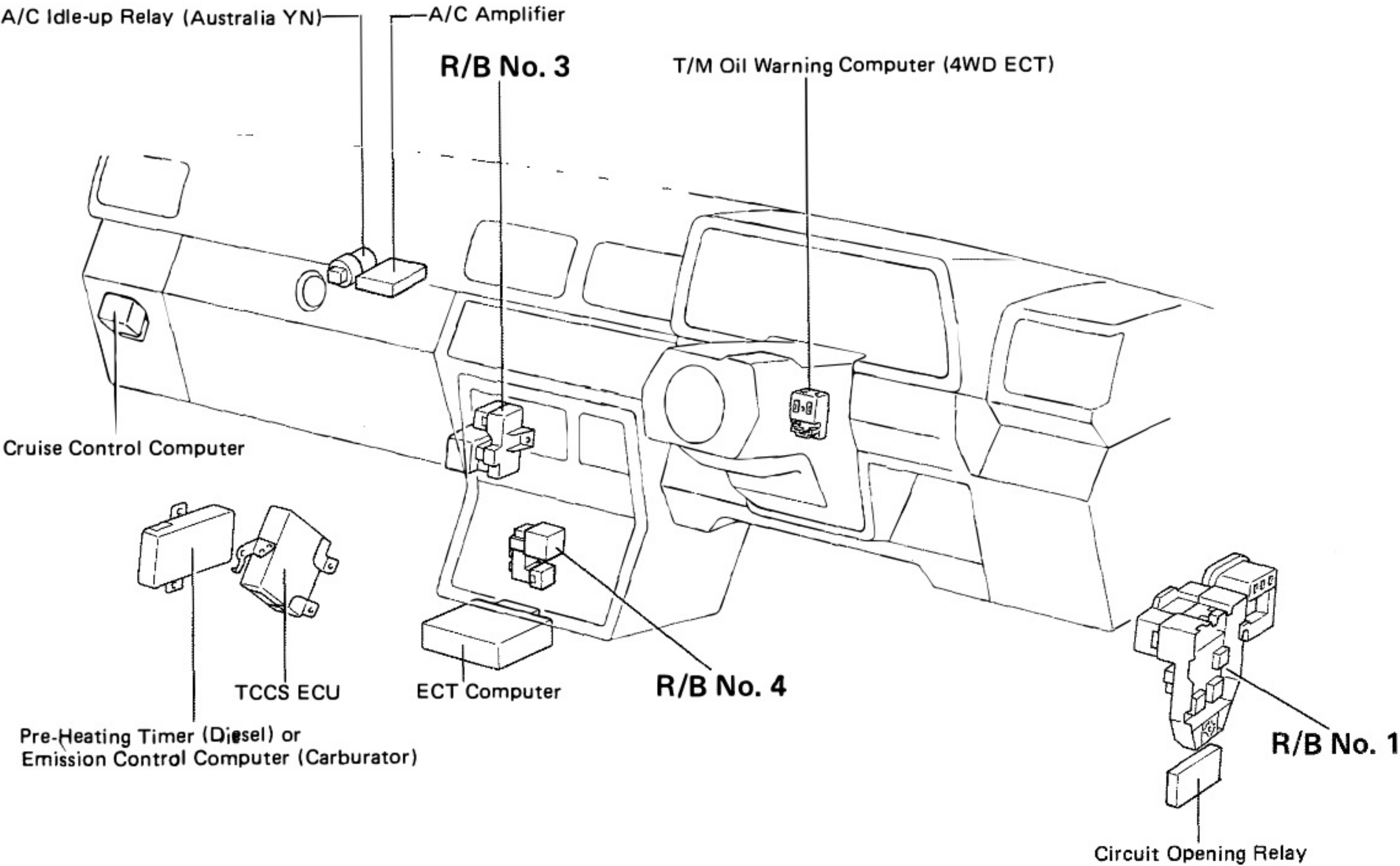
[Body]



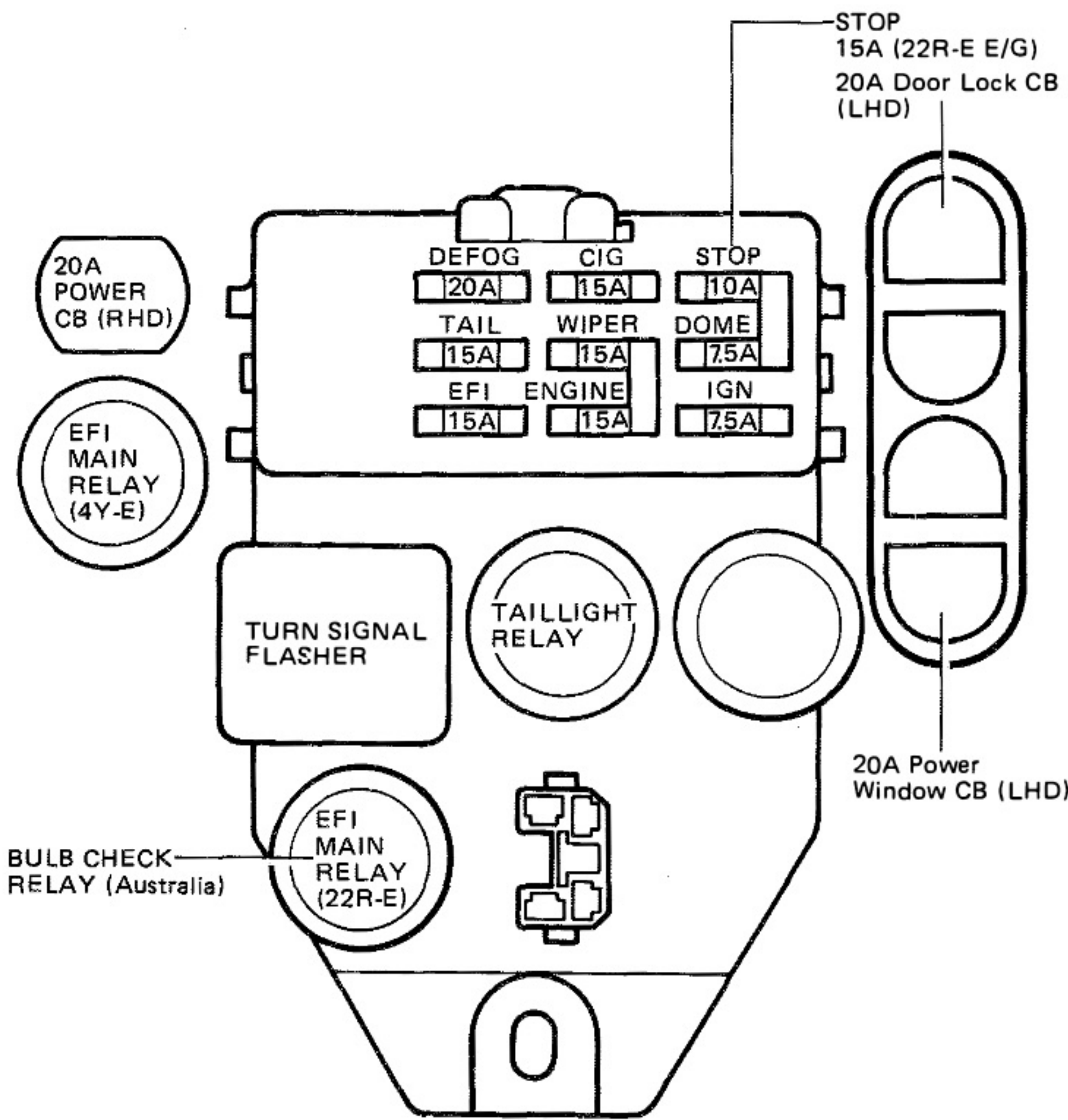
[Instrument Panel LHD]



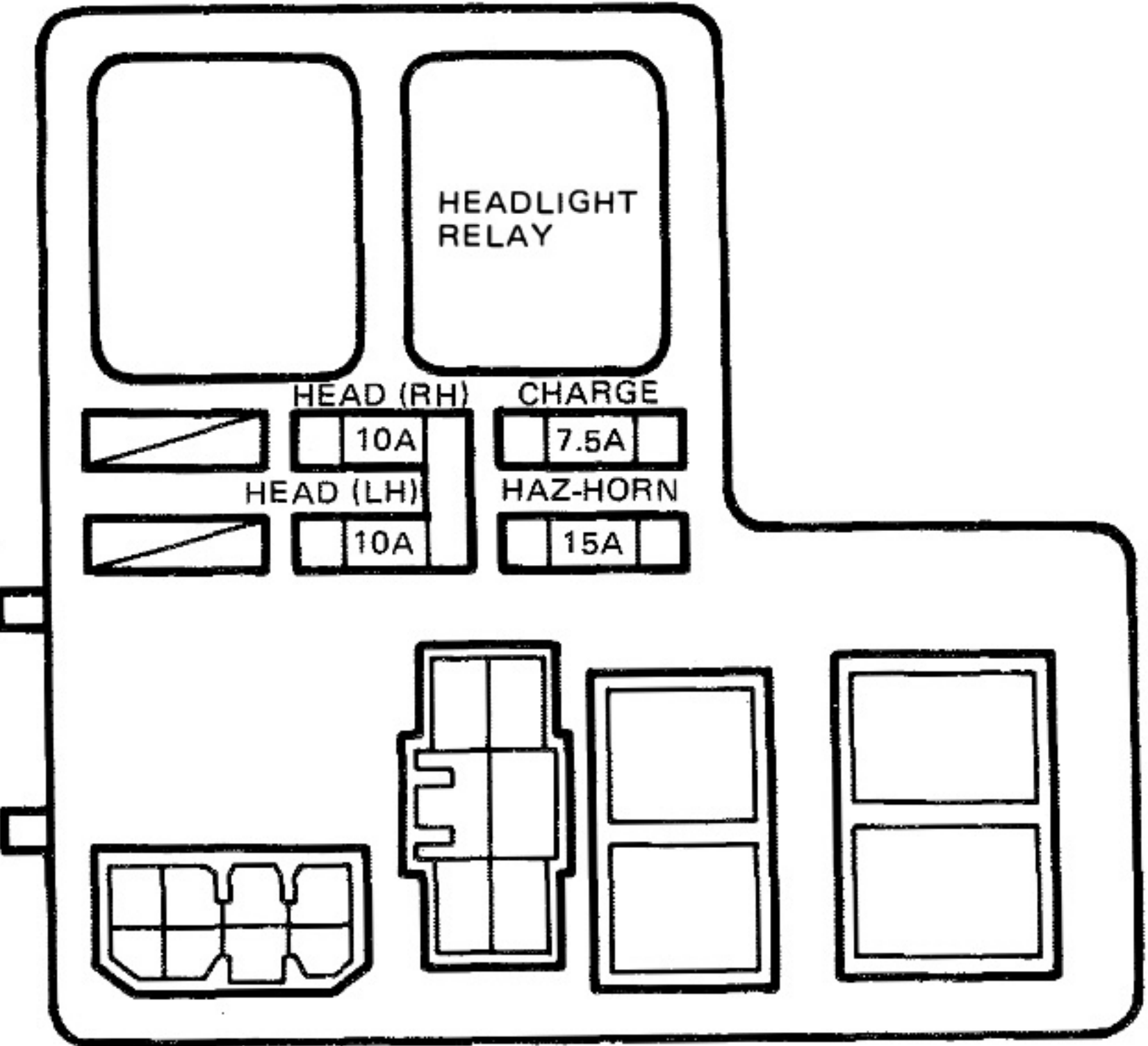
[Instrument Panel RHD]



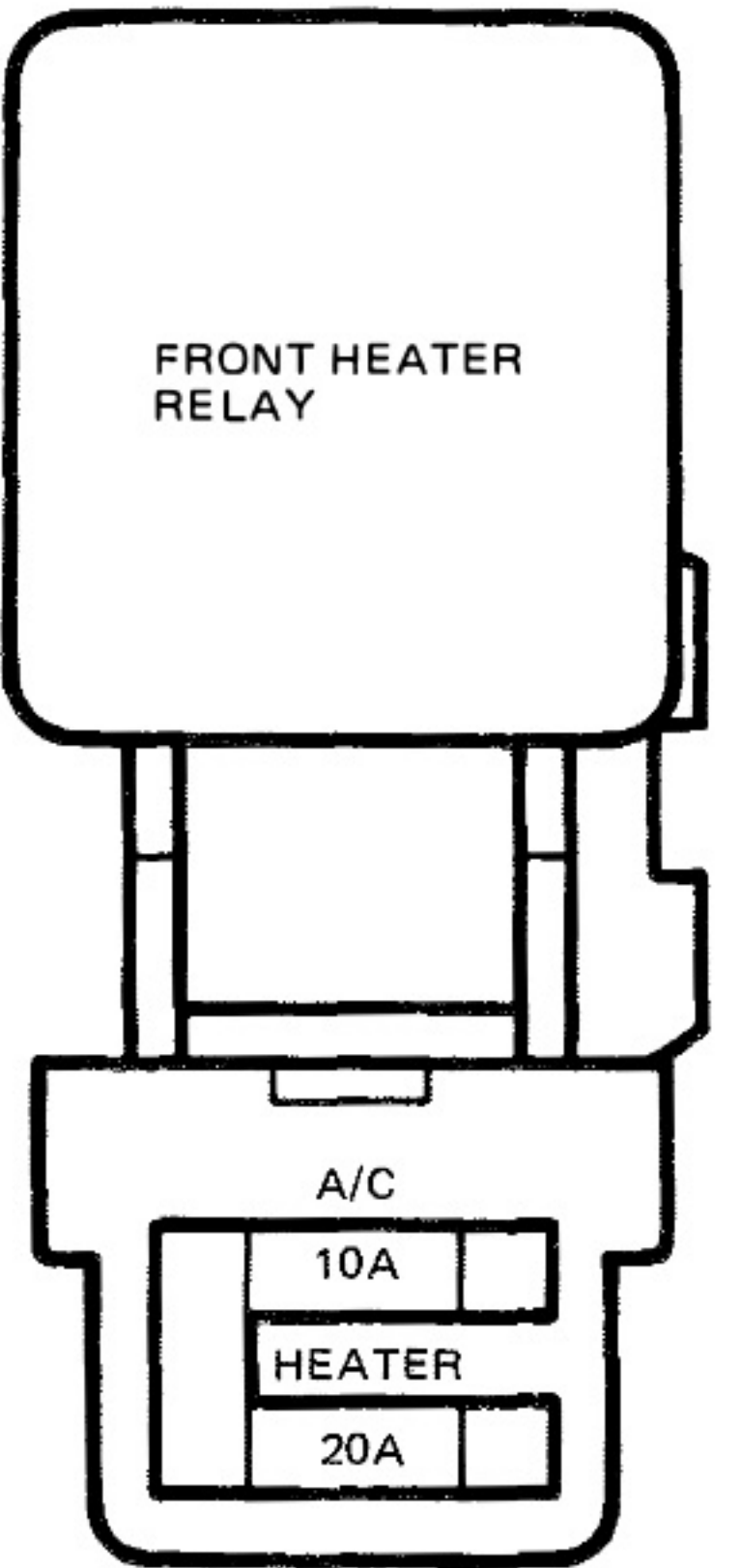
R/B No. 1



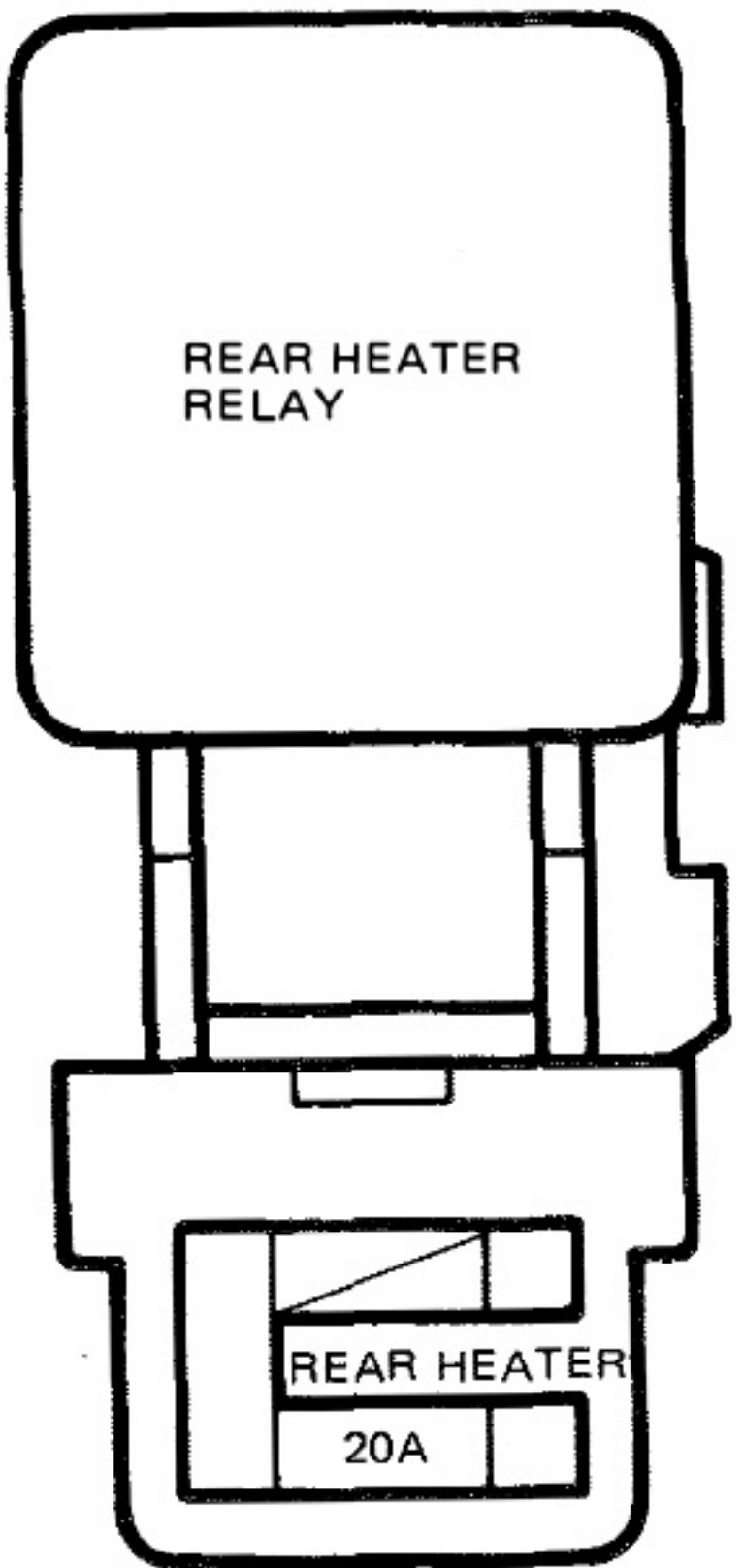
R/B No. 2



R/B No. 3



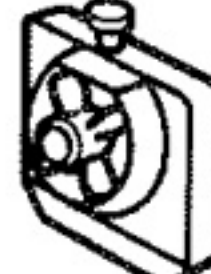
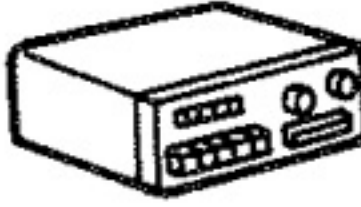
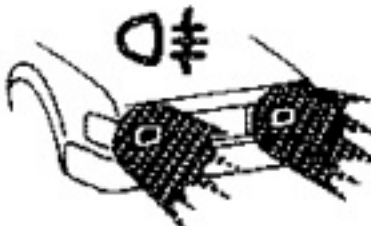
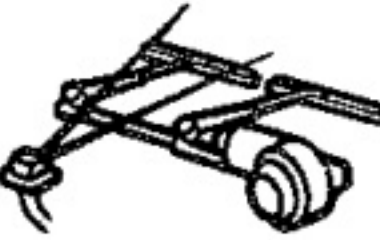
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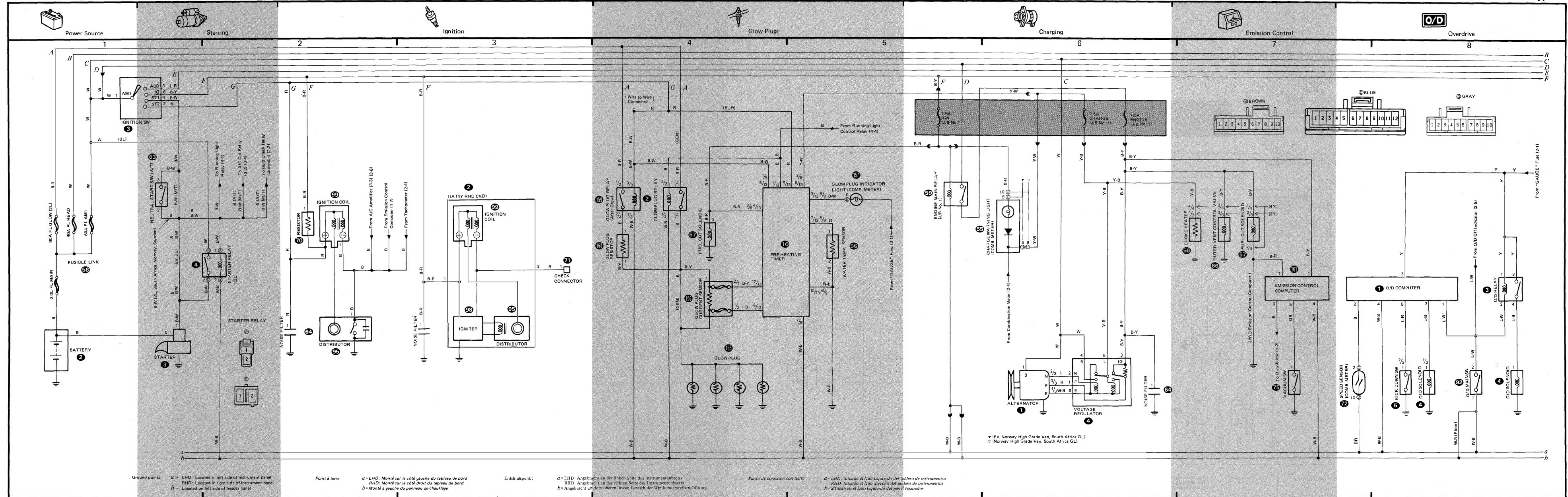


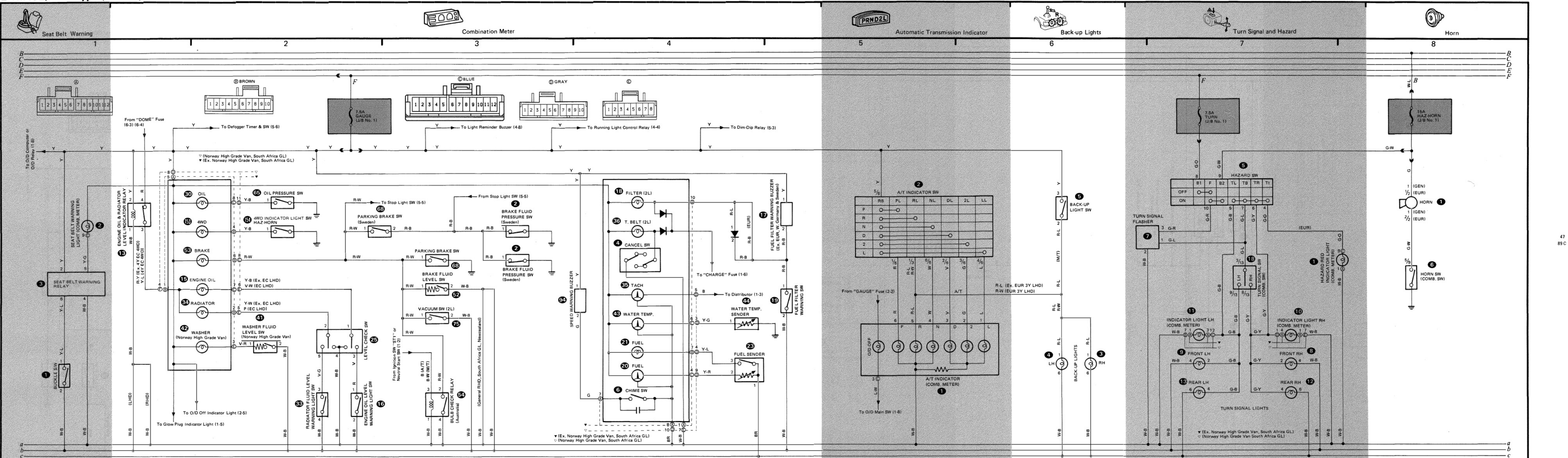
SYSTEM INDEX

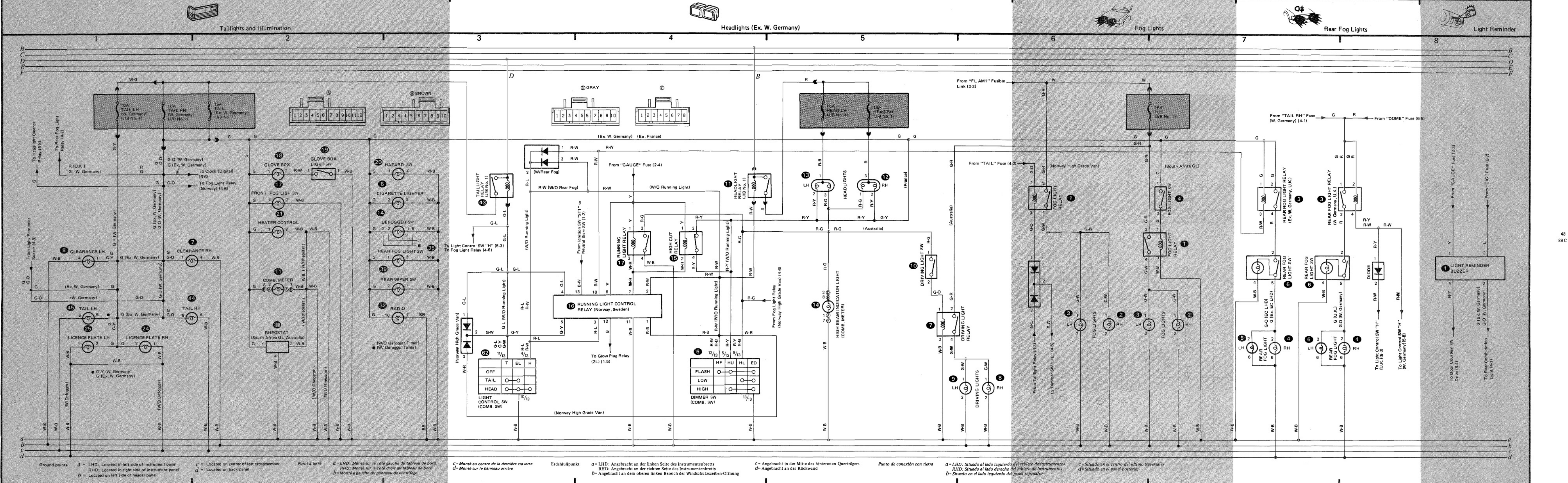
HIACE, Van Type

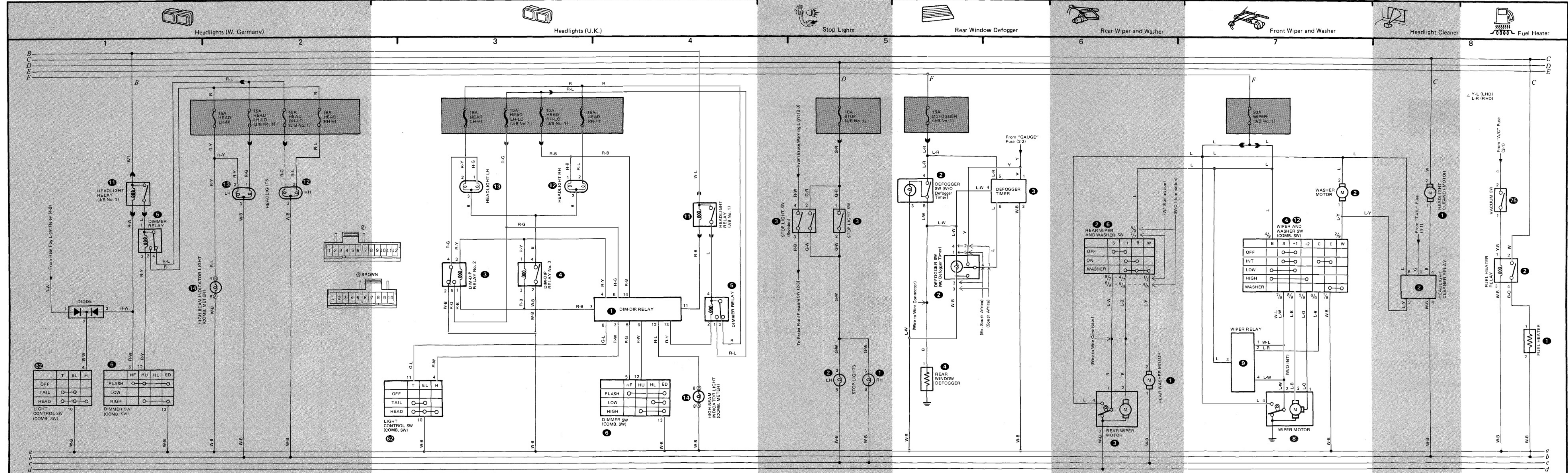
1989 Production Vehicles (Page 1 to Page 6)

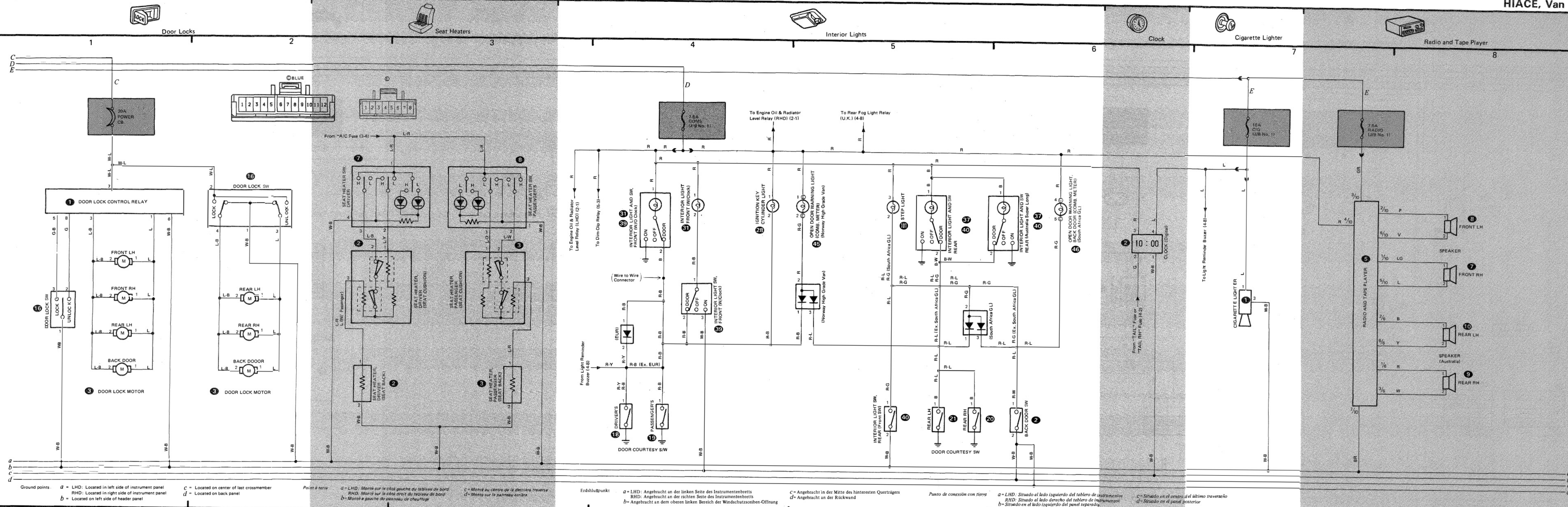
SYSTEMS		LOCATION	SYSTEMS		LOCATION
Air Conditioner, Cooler and Heater		3-4	Light Reminder		4-8
Automatic Transmission Indicator		2-5	Overdrive		1-8
Back-Up Lights		2-6	Power Source		1-1
Charging		1-6	Radiator Fan and Condenser Fan		3-1
Cigarette Lighter		6-7	Radio and Tape Player		6-8
Clock		6-6	Rear Air Conditioner		3-7
Combination Meter		2-3	Rear Fog Lights		4-7
Door Locks		6-1	Rear Window Defogger		5-5
Emission Control		1-7	Rear Wiper and Washer		5-6
Fog Lights		4-6	Seat Belt Warning		2-1
Front Wiper and Washer		5-7	Seat Heaters		6-2
Fuel Heater		5-8	Starting		1-1
Glow Plugs		1-4	Stop Lights		5-5
Headlight Cleaner		5-8	Taillights and Illumination		4-2
Headlights		4-4 (Ex. W. Germany) 5-1 (W. Germany) 5-3 (U.K.)	Turn Signal and Hazard		2-7
Horn		2-8			
Ignition		1-2			
Interior Lights		6-4			



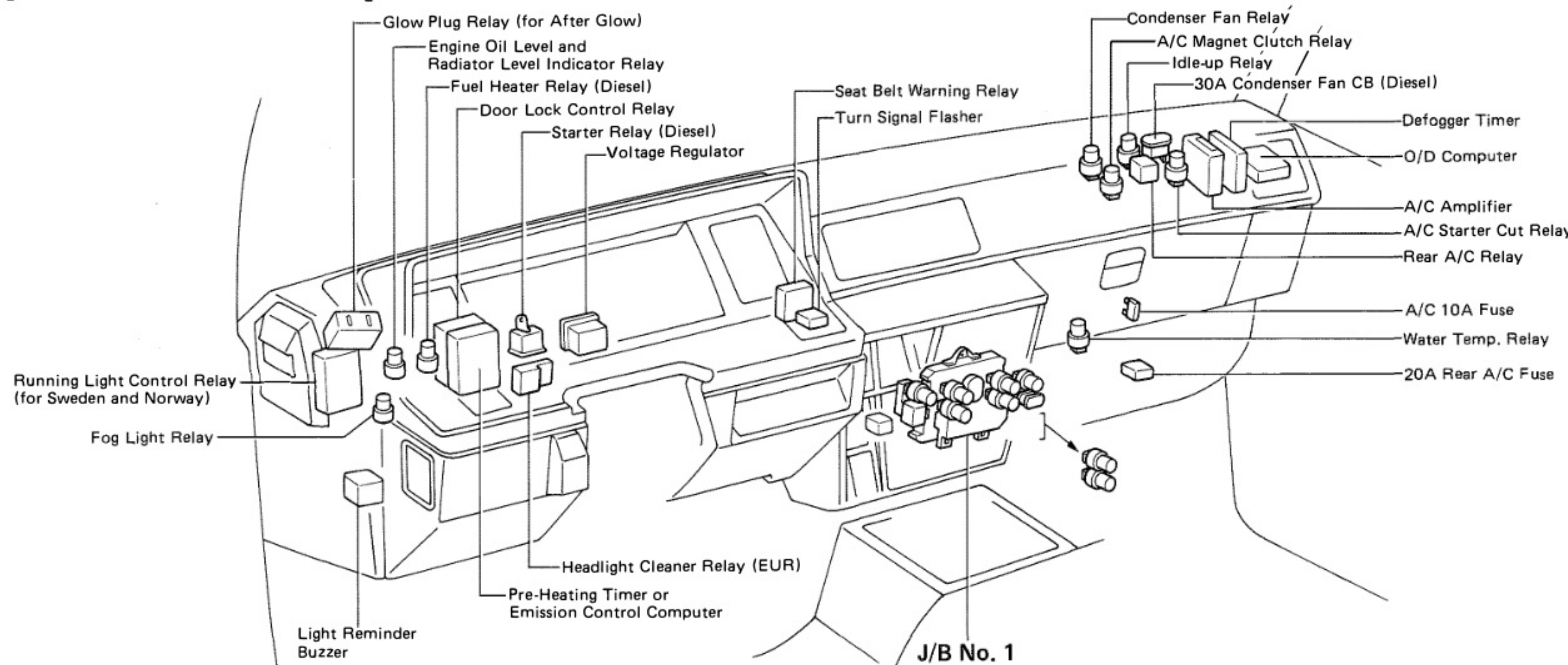




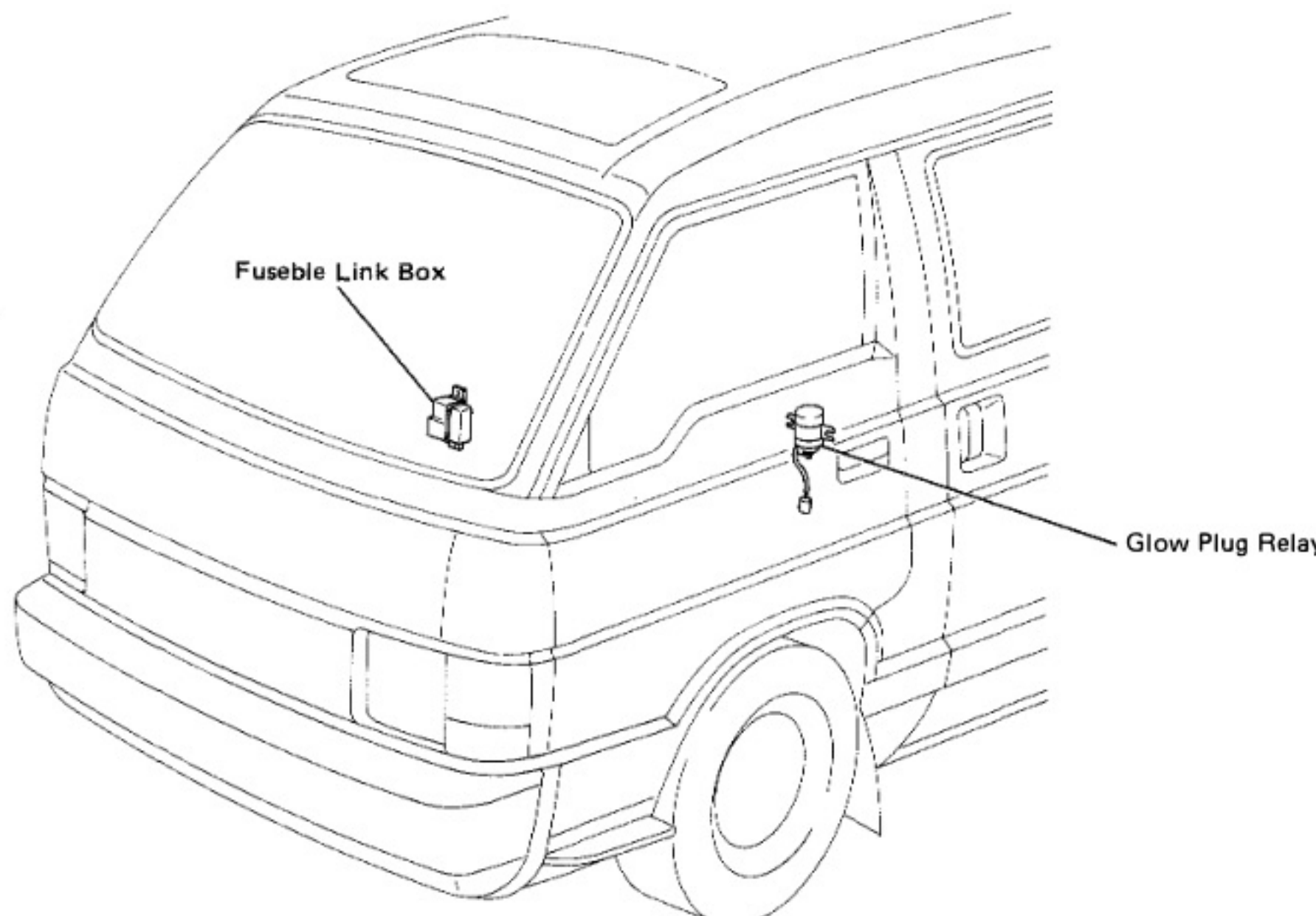




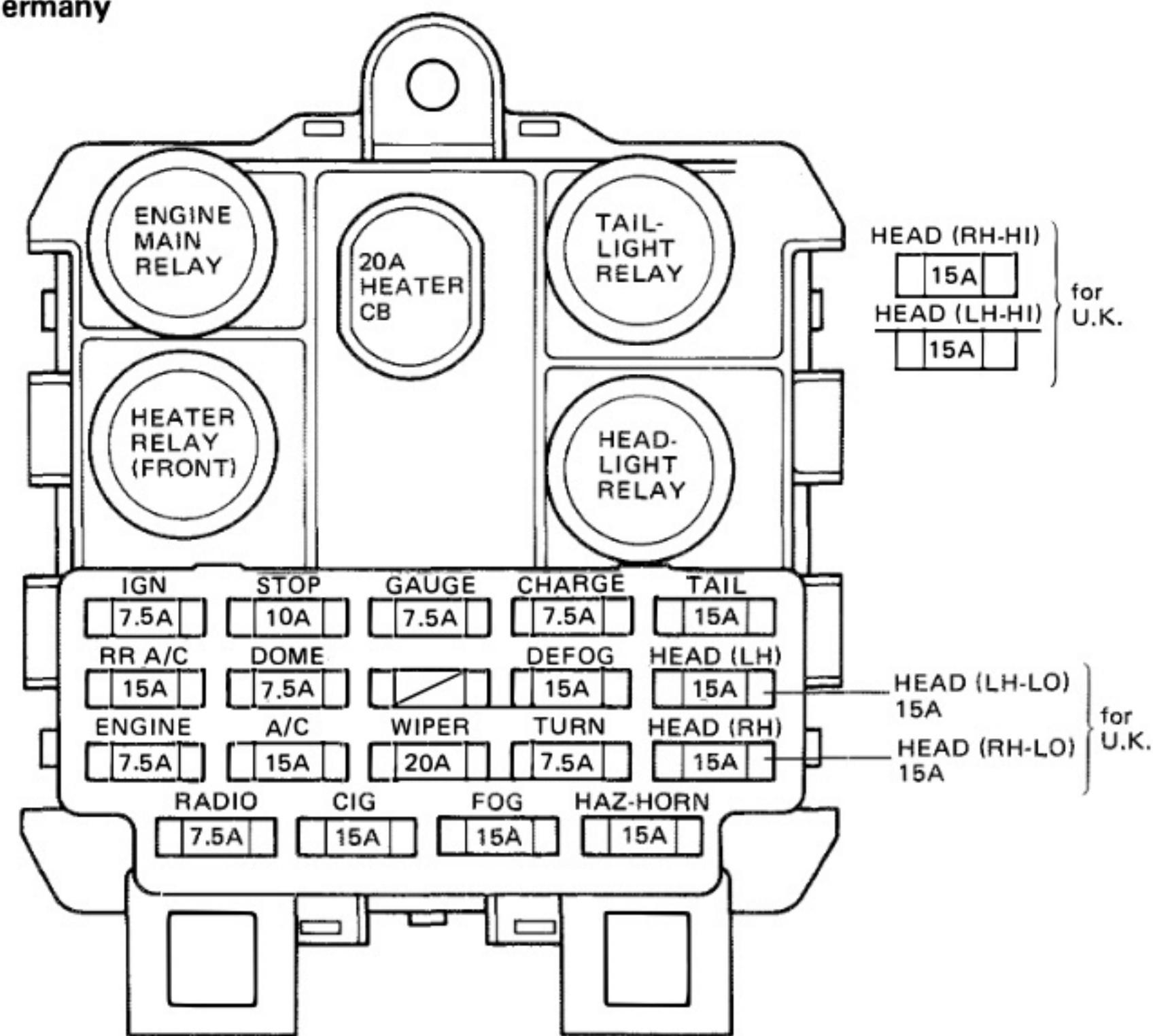
[Instrument Panel LHD]



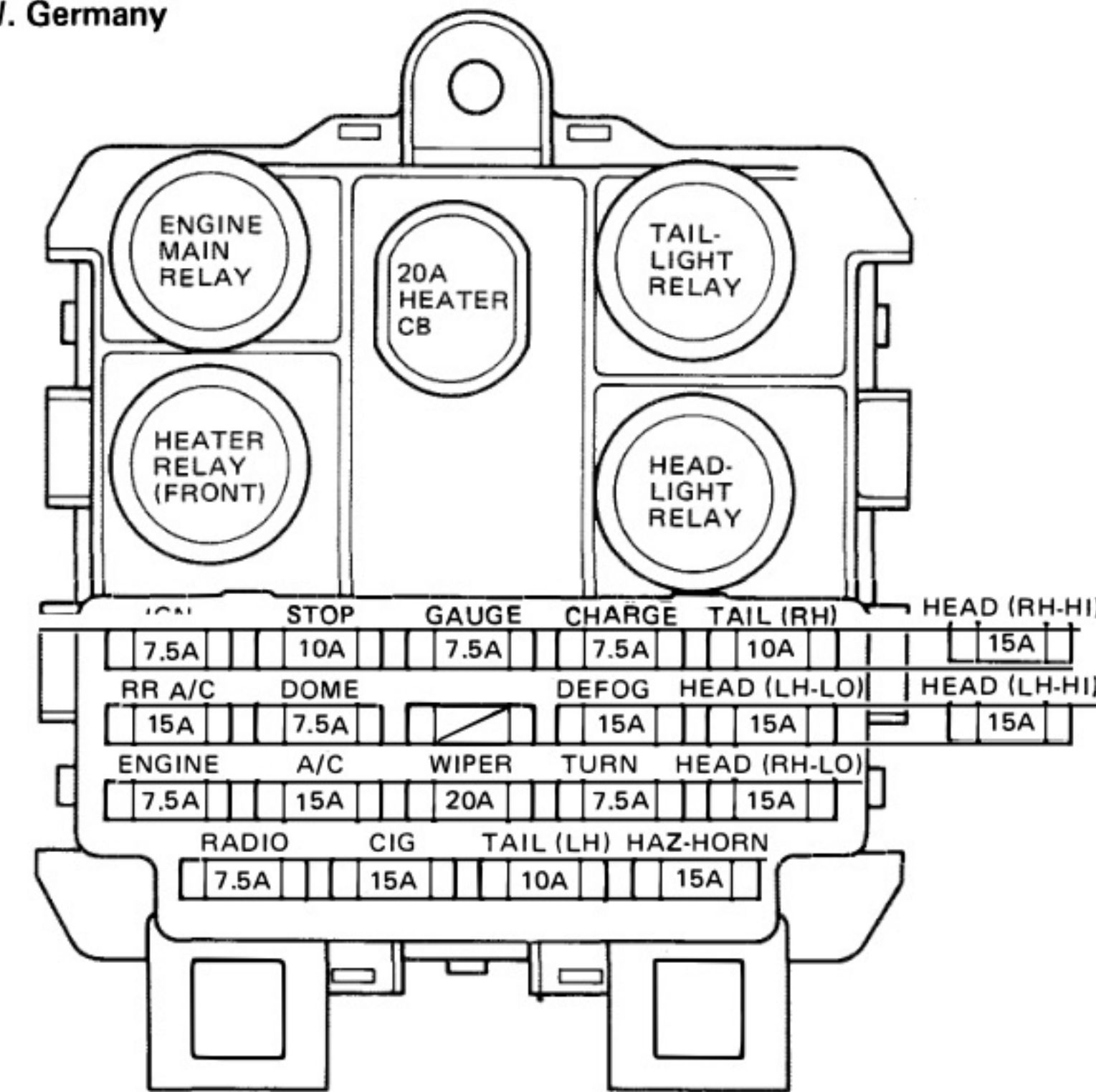
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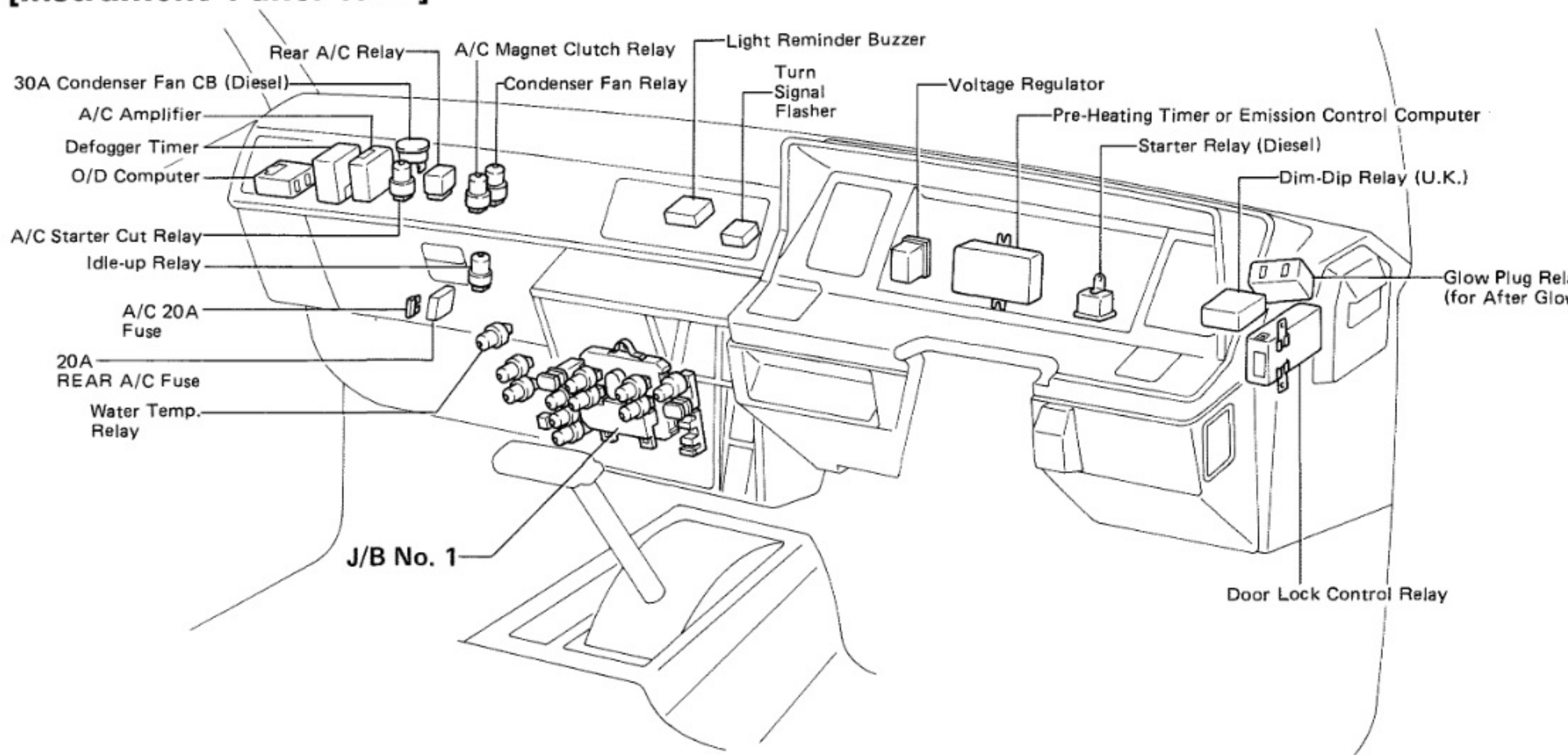
J/B No. 1
W. Germany



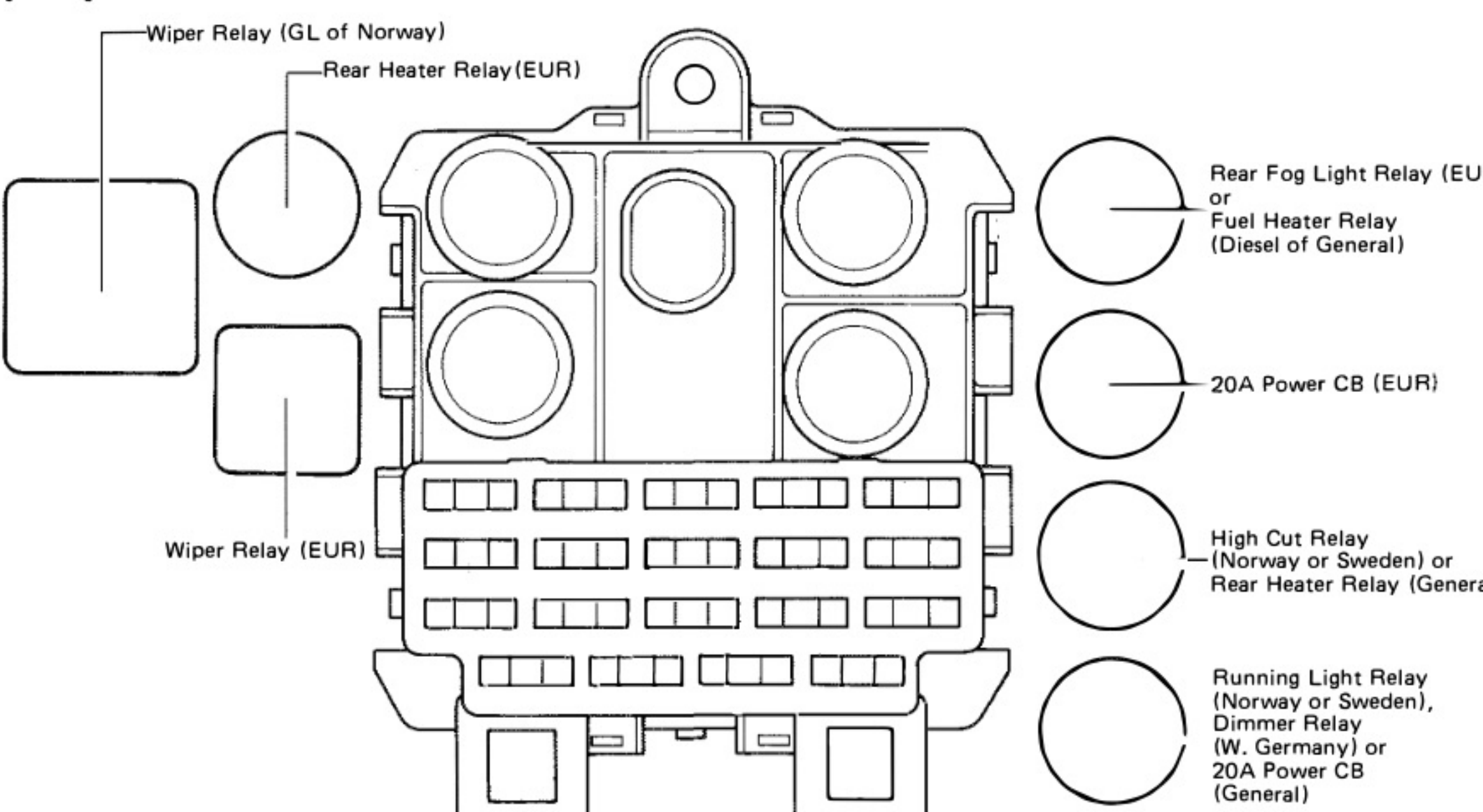
J/B No. 1
Ex. W. Germany



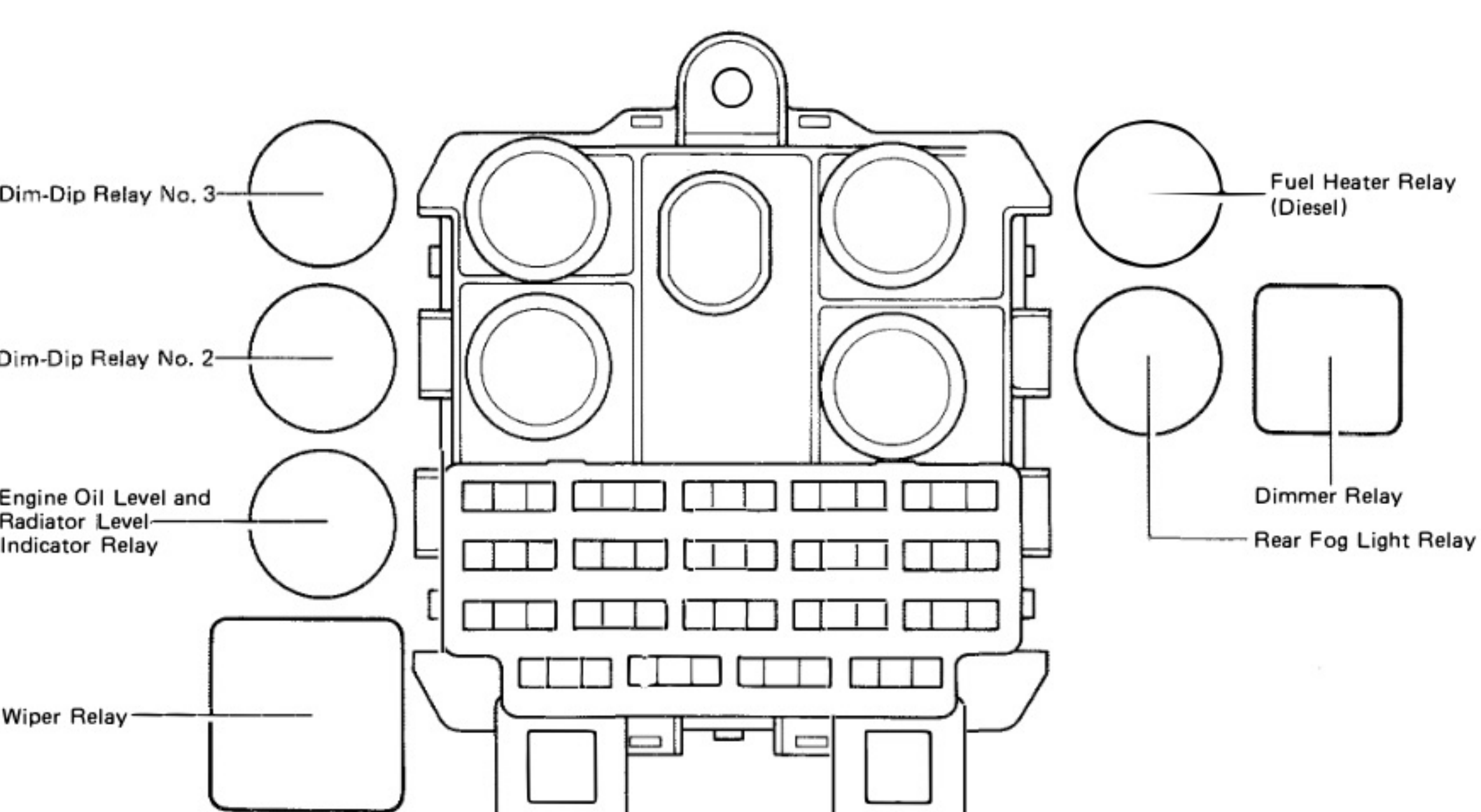
[Instrument Panel RHD]



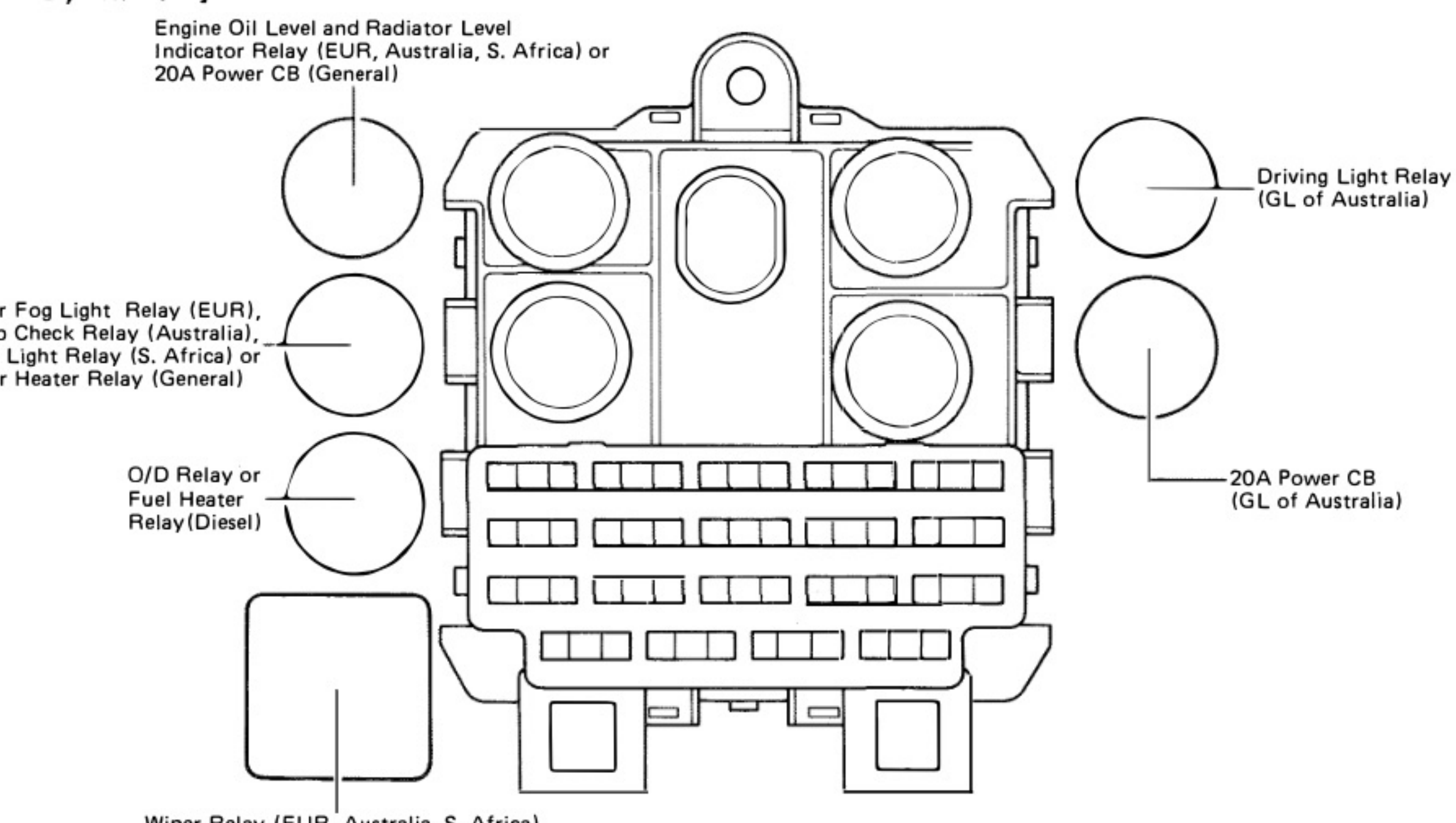
[LHD]



[RHD, U.K.]



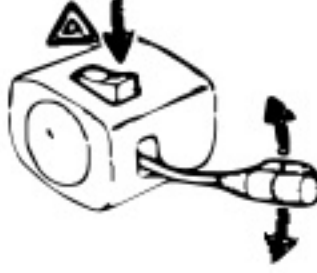
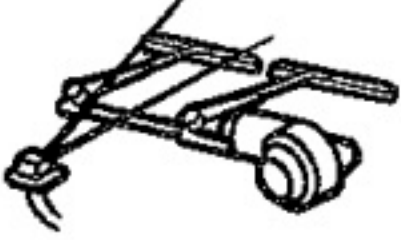
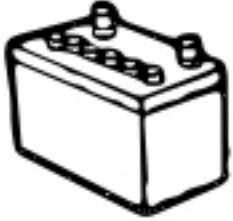
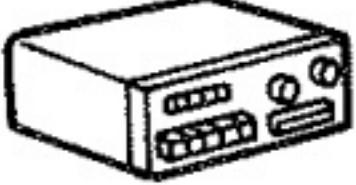
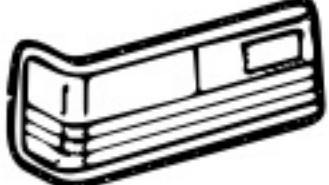
[RHD, Ex. U.K.]

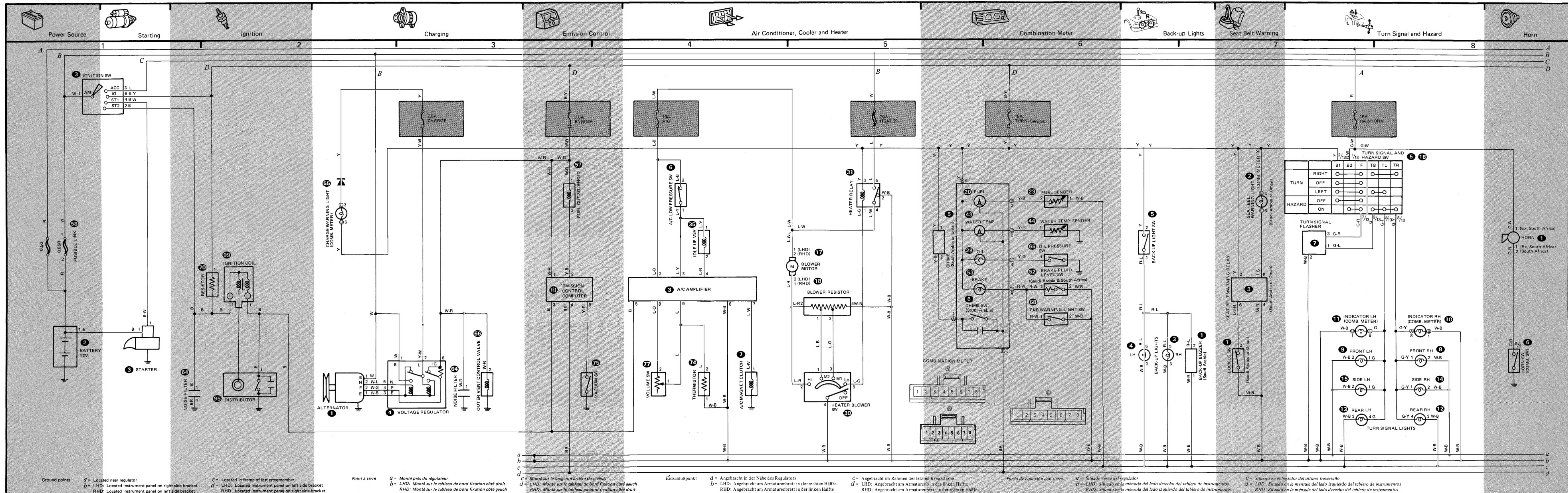


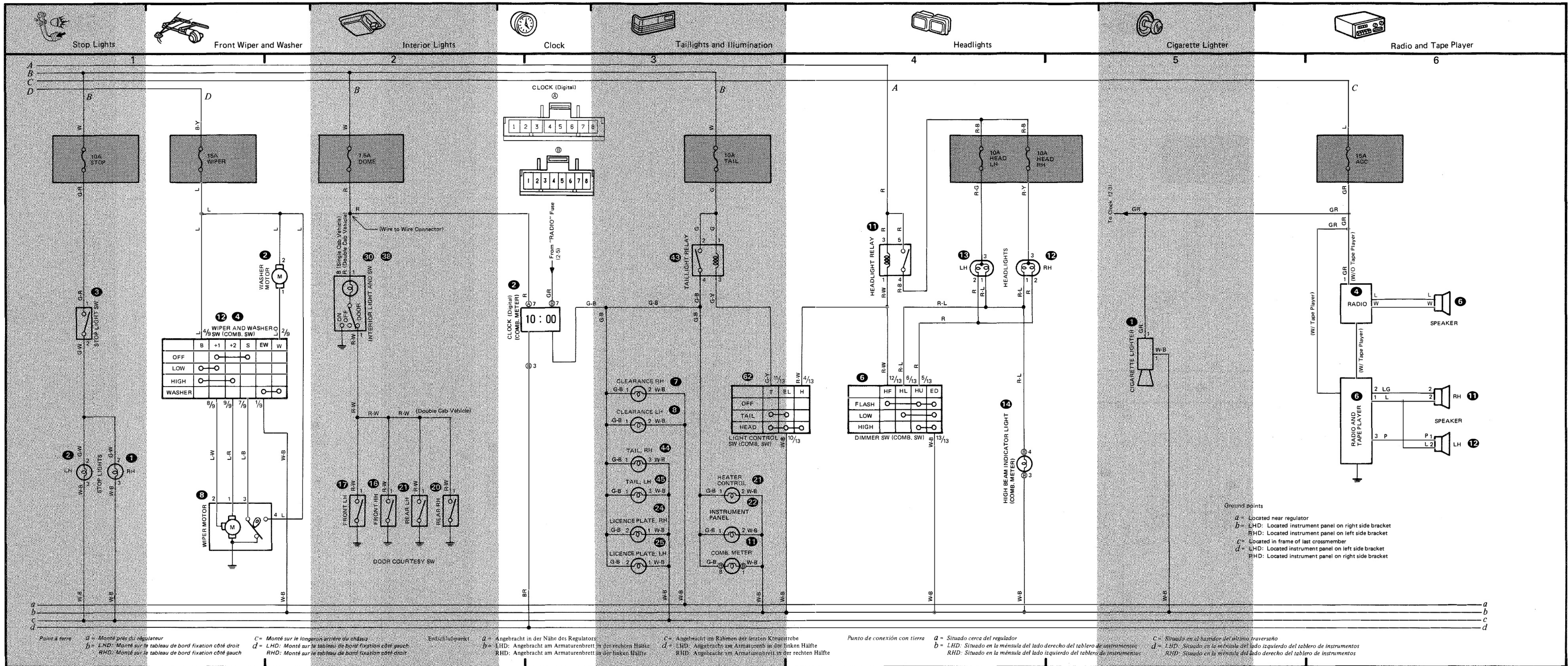
SYSTEM INDEX

STOUT

1989 Production Vehicles (Page 1 to Page 2)

SYSTEMS	LOCATION	SYSTEMS	LOCATION
Air Conditioner, Cooler and Heater	 1-4	Turn Signal and Hazard	 1-7
Back-up Lights	 1-6		
Charging	 1-3		
Cigarette Lighter	 2-5		
Clock	 2-3		
Combination Meter	 1-6		
Emission Control	 1-3		
Front Wiper and Washer	 2-1		
Headlights	 2-4		
Horn	 1-8		
Ignition	 1-2		
Interior Lights	 2-2		
Power Source	 1-1		
Radio and Tape Player	 2-6		
Seat Belt Warning	 1-7		
Starting	 1-1		
Stop Lights	 2-1		
Taillights and Illumination	 2-3		

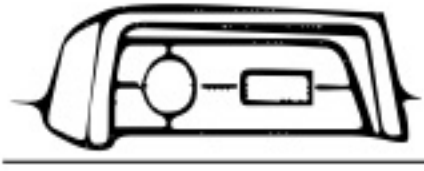
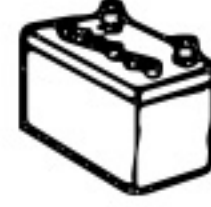
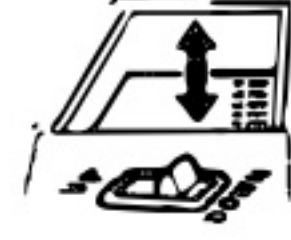
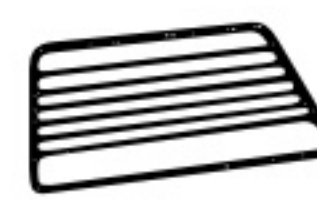
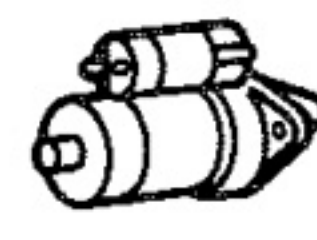
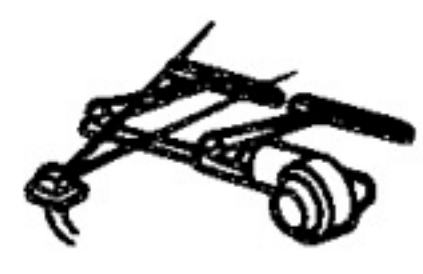
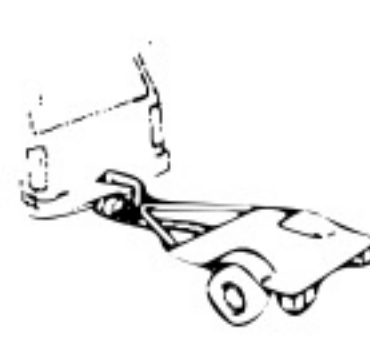
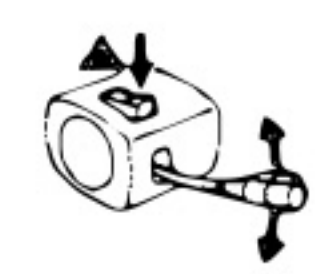


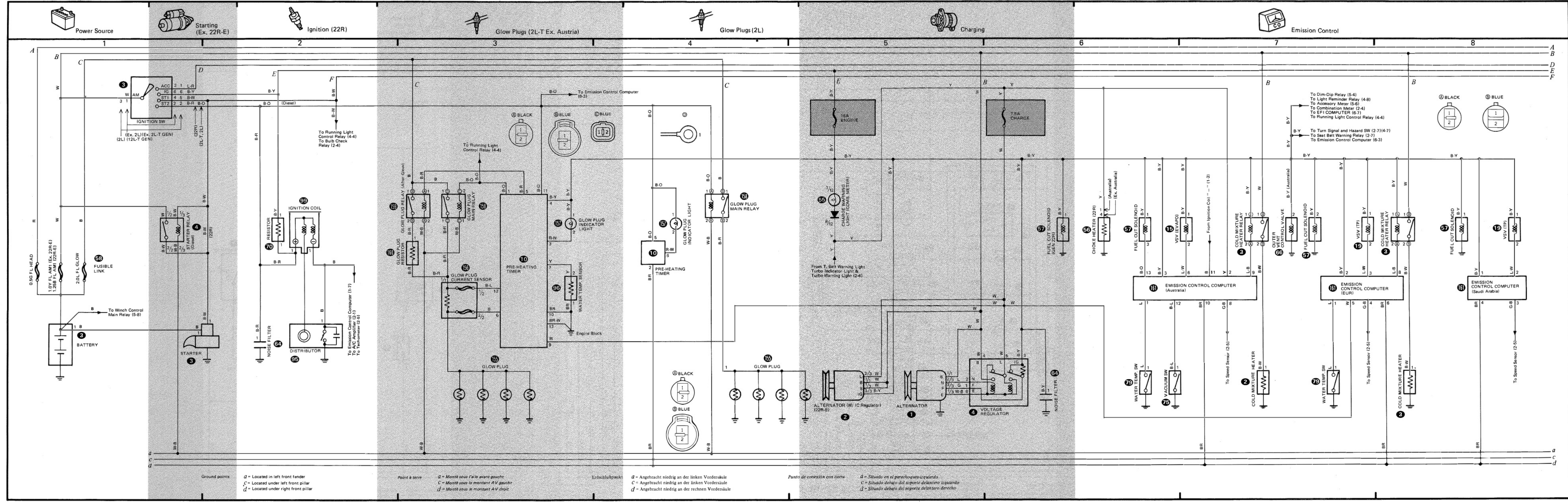


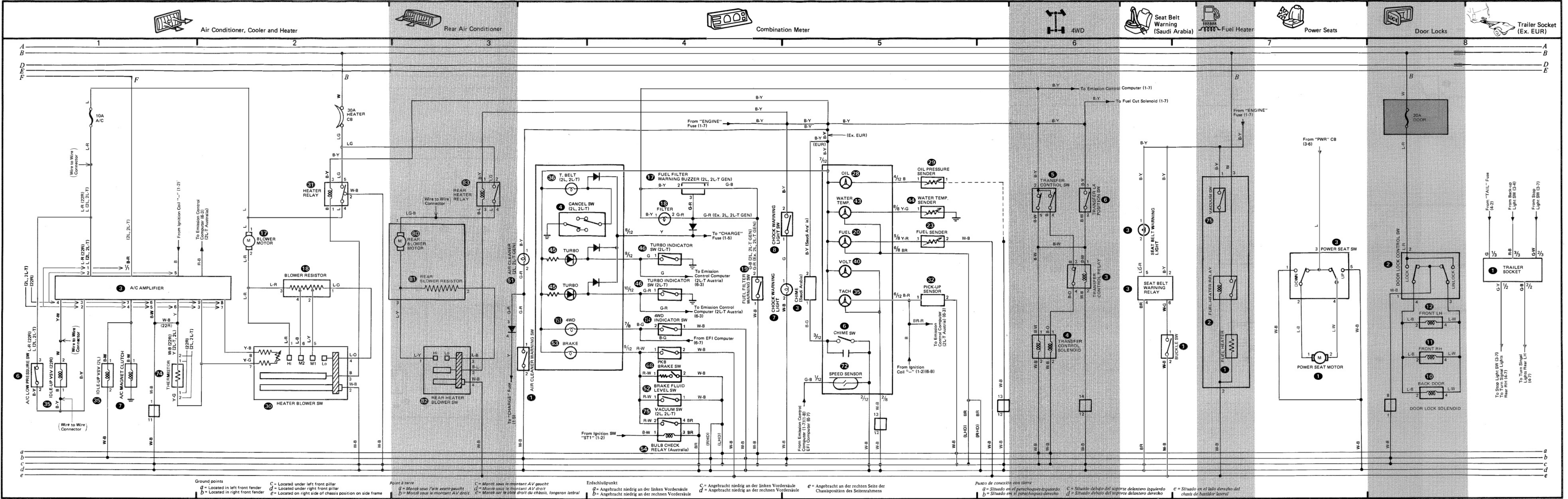
SYSTEM INDEX

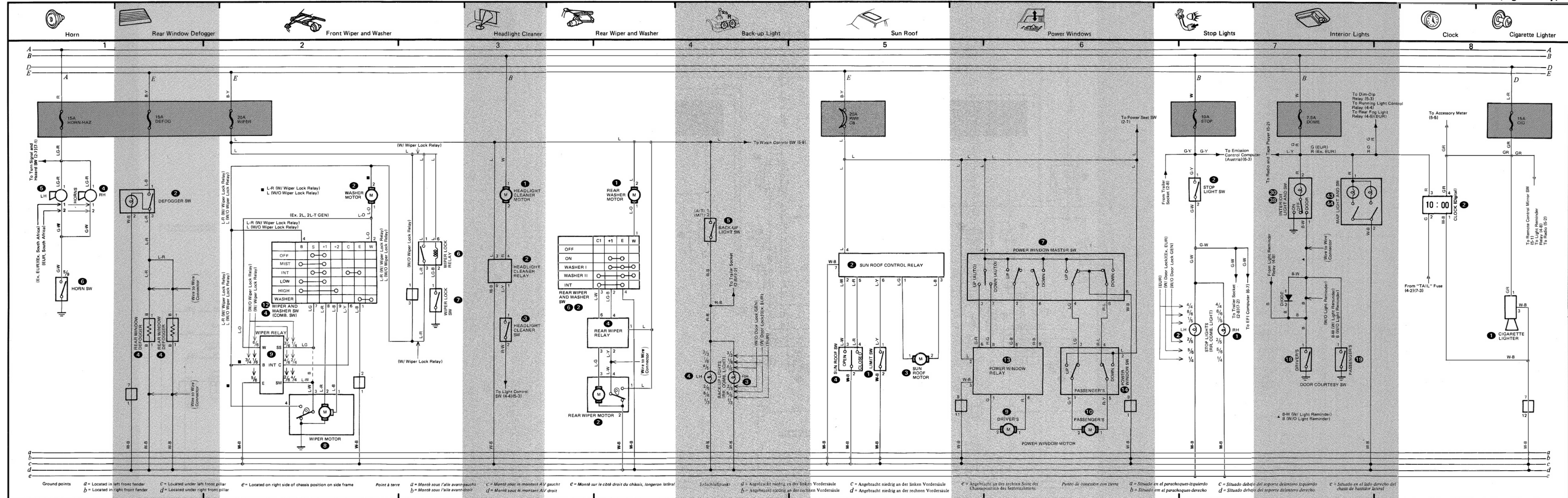
LAND CRUISER 70 (Light-Duty)

1989 Production Vehicles (Page 1 to Page 7)

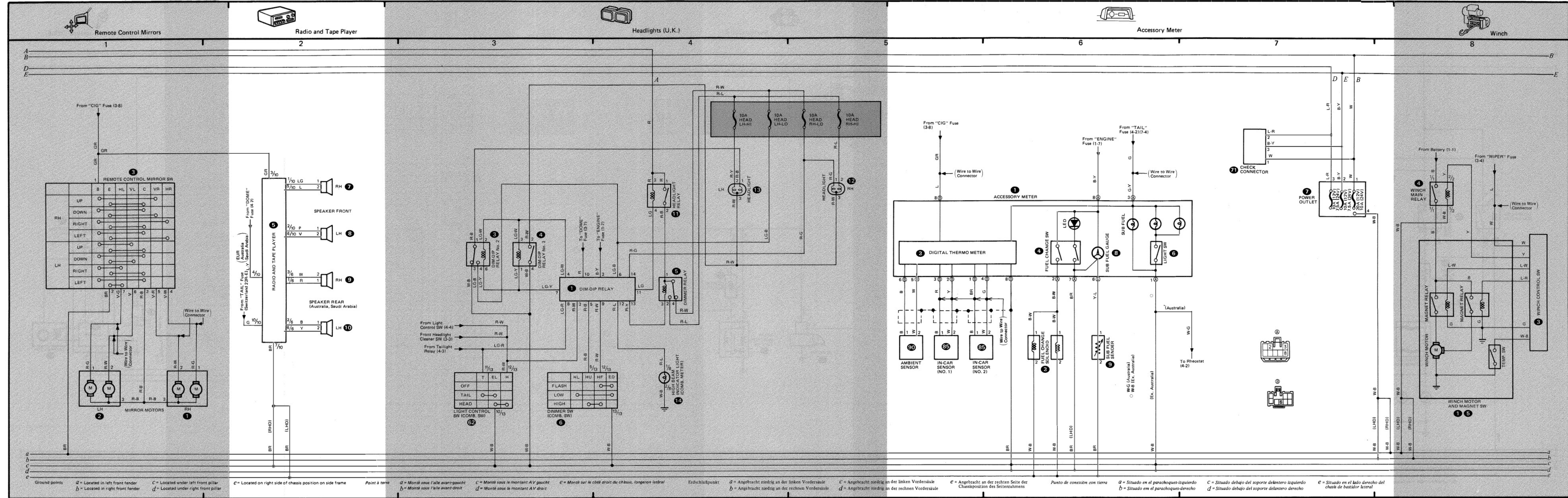
SYSTEMS		LOCATION	SYSTEMS		LOCATION
Accessory Meter		5-6	Light Reminder		4-8
Air Conditioner, Cooler and Heater		2-1	Power Seat		2-7
Back-up Lights		3-4	Power Source		1-1 6-4 (22R-E)
Charging		1-5	Power Windows		3-6
Cigarette Lighter		3-8	Radio and Tape Player		5-2
Clock		3-8	Rear Air Conditioner		2-3
Combination Meter		2-4	Rear Fog Lights		4-6
Door Locks		2-8	Rear Window Defogger		3-1
ECD		6-3 (2L-T Australia)	Rear Wiper and Washer		3-4
EFI		6-6 (22R-E)	Remote Control Mirrors		5-1
Emission Control		1-7	Seat Belt Warning		2-6 (Saudi Arabia)
Fog Lights		4-1	Starting		1-1 (Ex. 22R-E) 6-5 (22R-E)
Front Wiper and Washer		3-2	Stop Lights		3-7
Fuel Heater		2-7	Sun Roof		3-5
Glow Plugs		1-3 (2L-T Ex. Austria) 1-4 (2L)	Taillights and Illumination		4-2 (Ex. EUR) 7-4 (EUR)
Headlight Cleaner		3-3	Trailer Socket		2-8 (Ex. EUR) 7-2 (EUR)
Headlights		4-4 (Ex. U.K.) 5-4 (U.K.)	Turn Signal and Hazard		4-7 (Ex. EUR) 7-2 (EUR)
Horn		3-1	Winch		5-8
Ignition		1-2 (22R) 6-8 (22R-E)	4WD		2-6
Interior Lights		3-7			

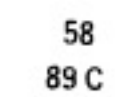


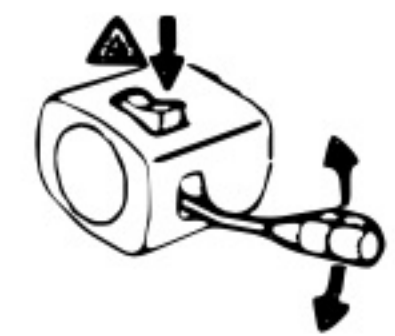




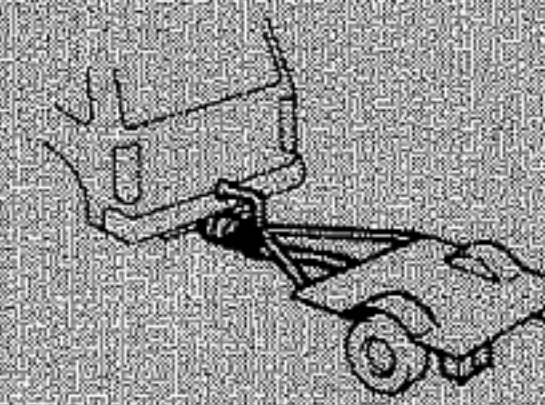








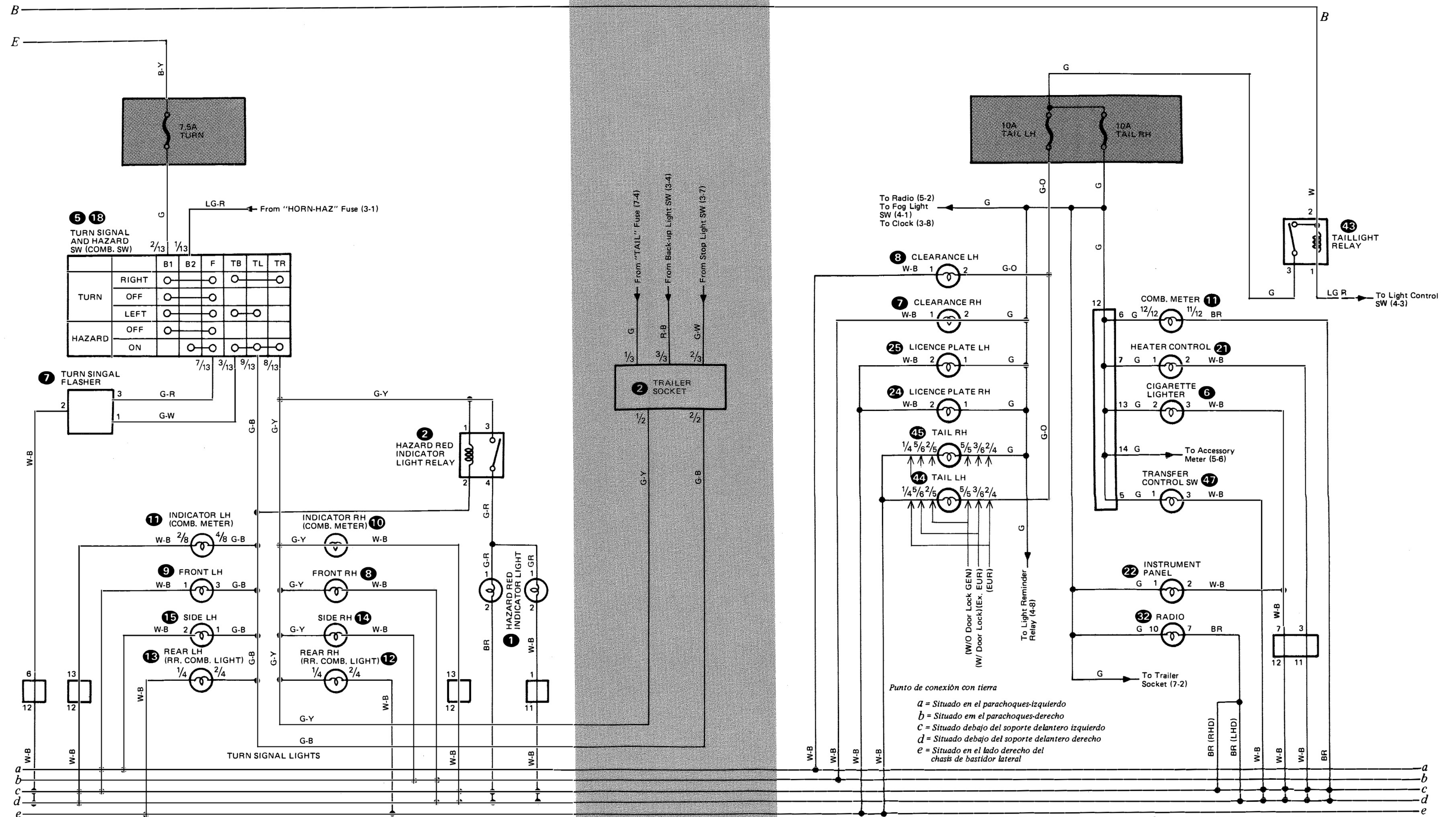
Turn Signal and Hazard (EUR)



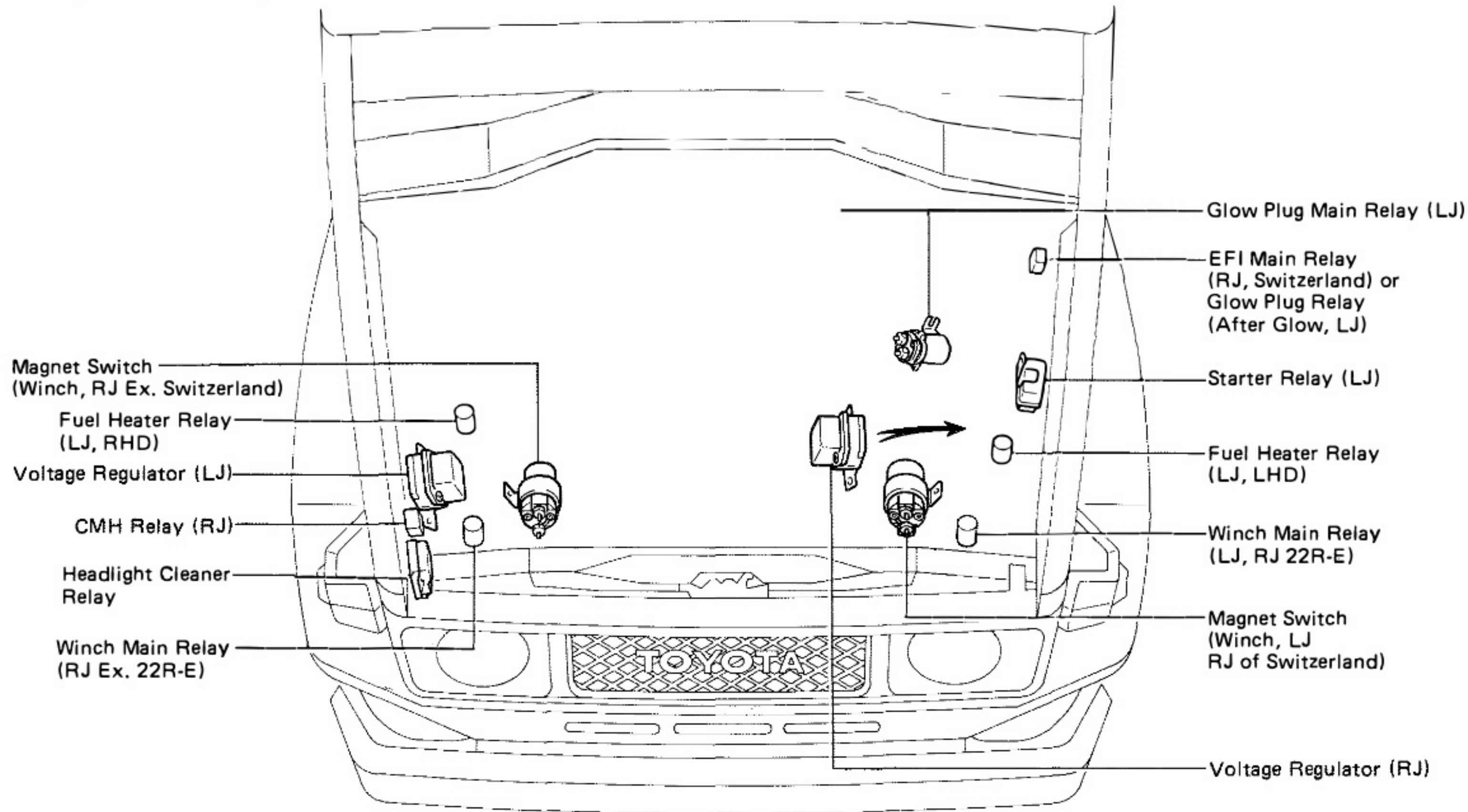
Trailer Socket (EUR)



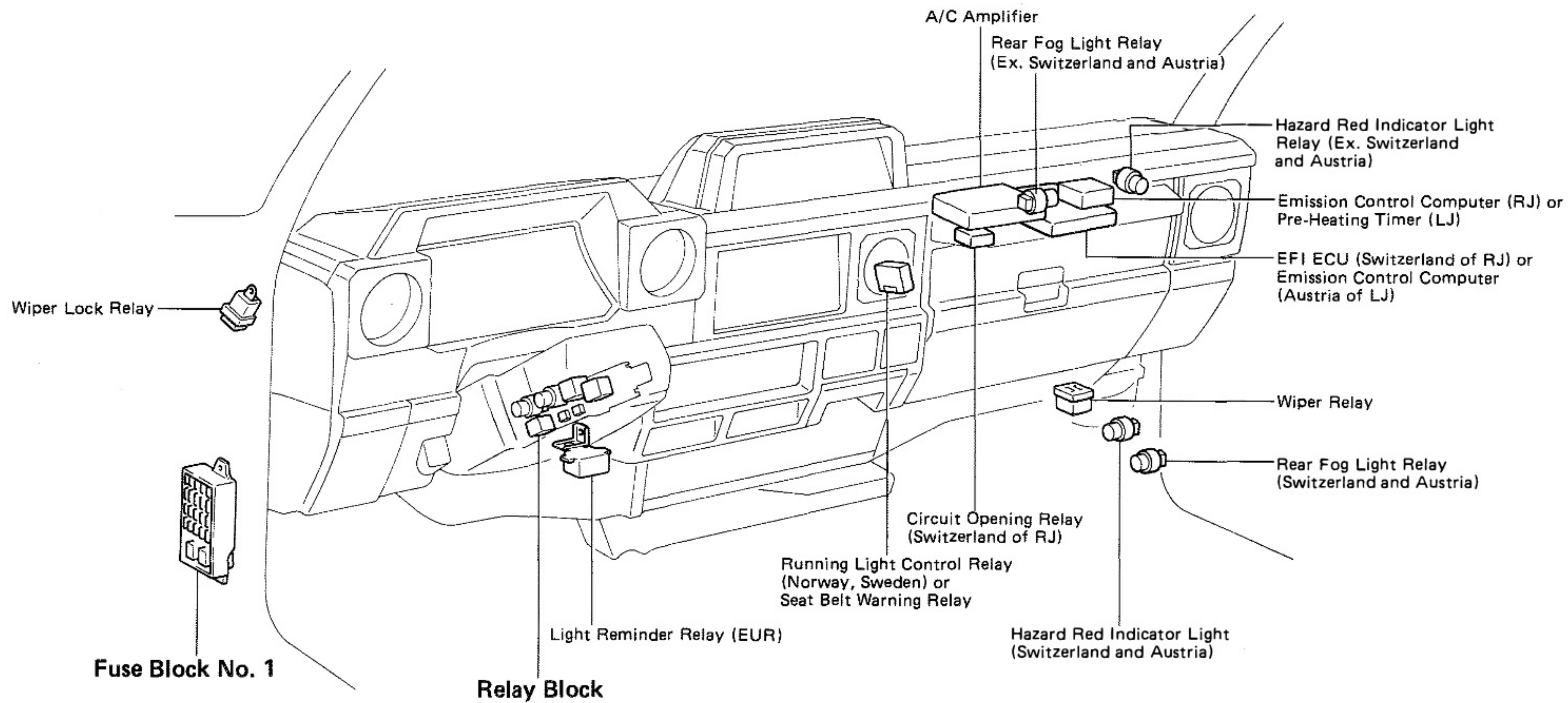
Taillights and Illumination (EUR)



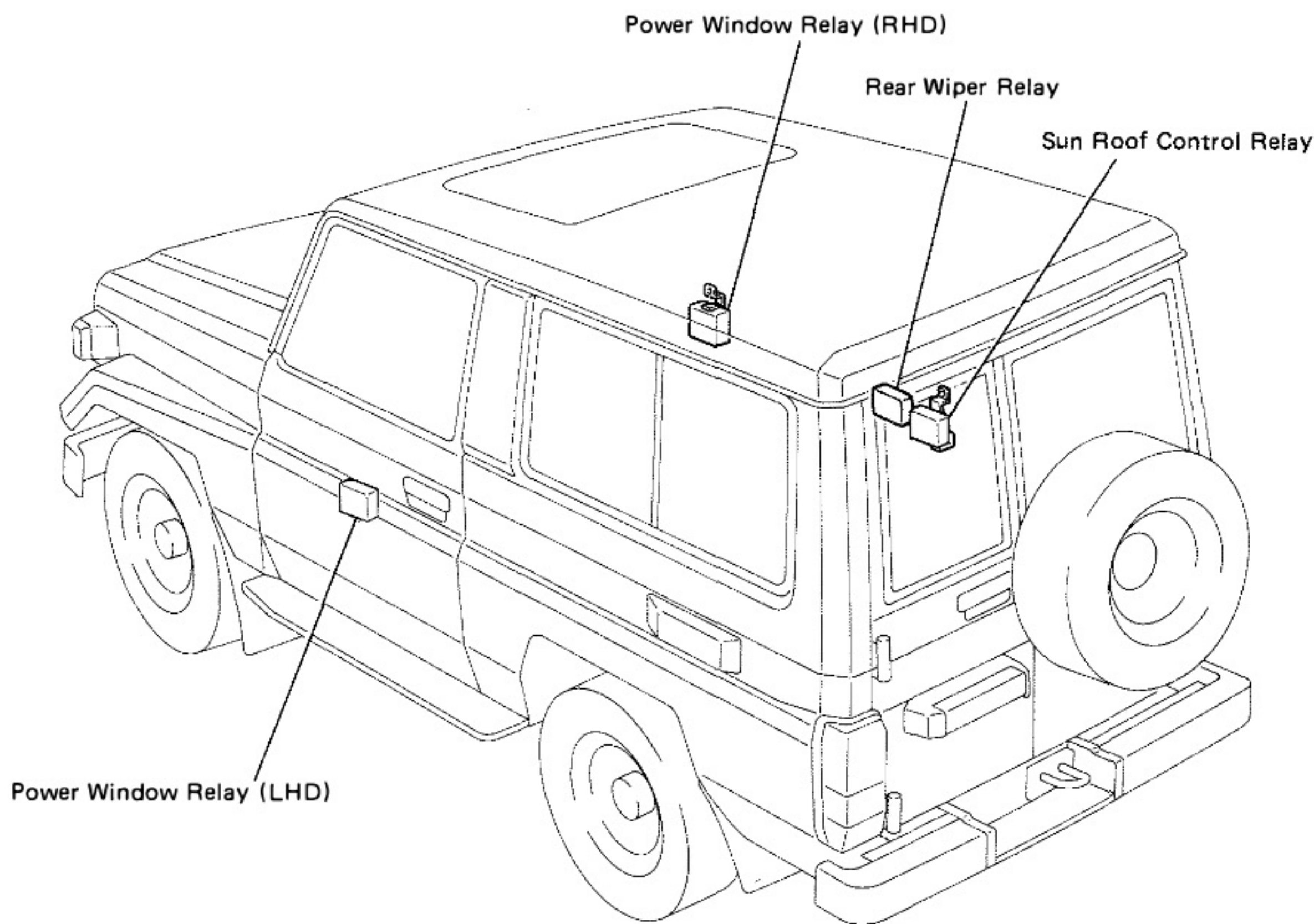
[Engine Compartment]



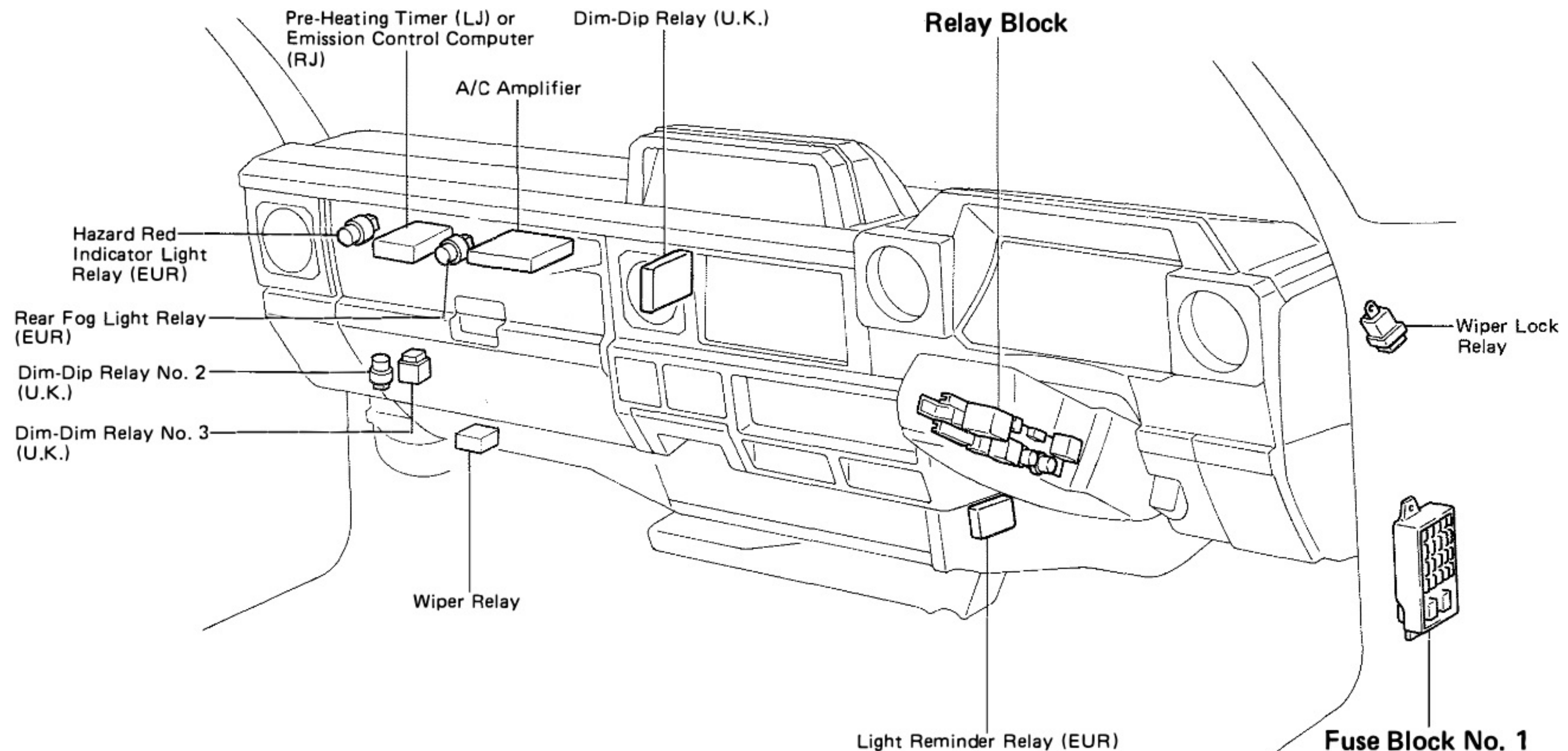
[Instrument Panel LHD]



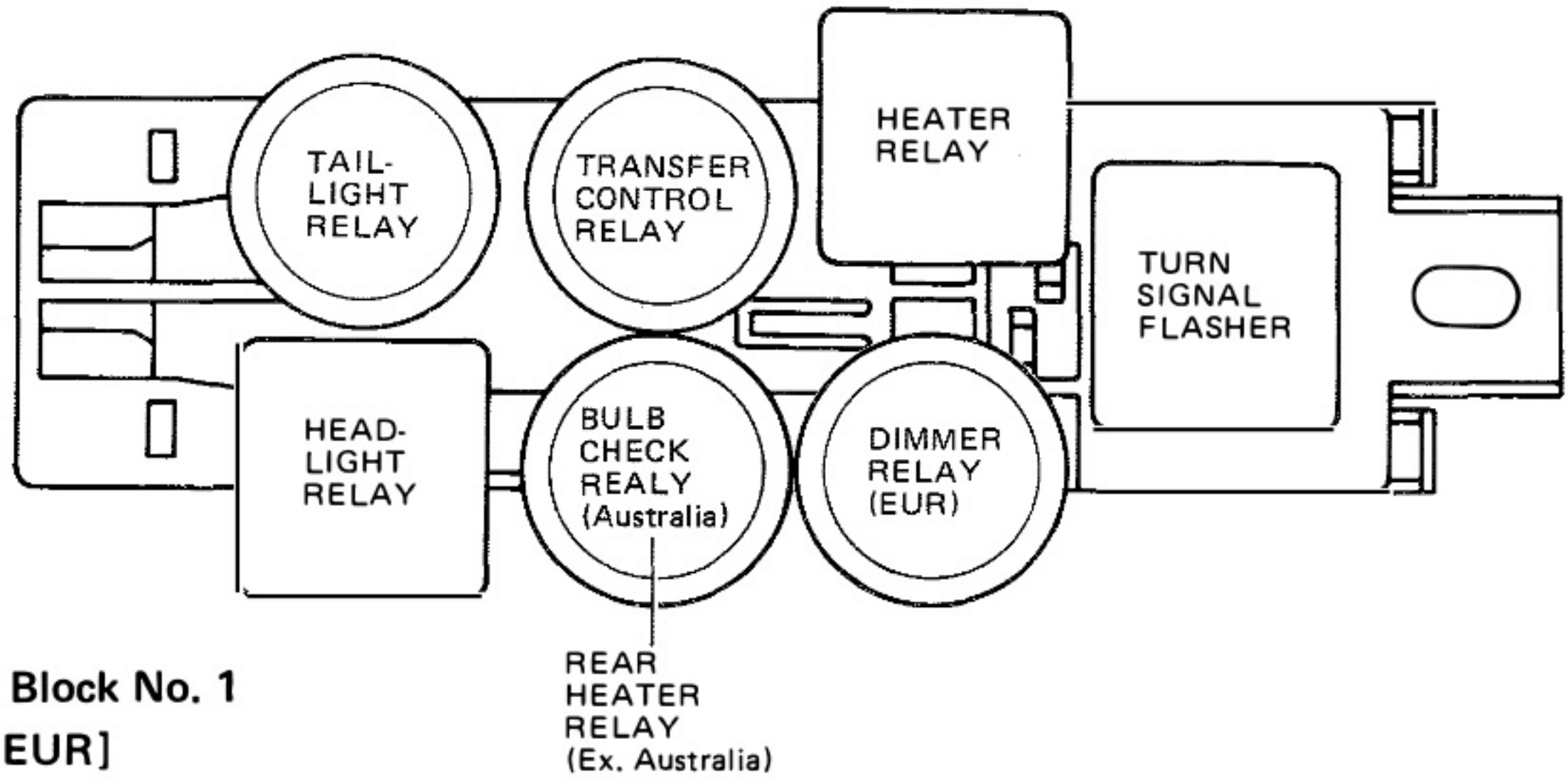
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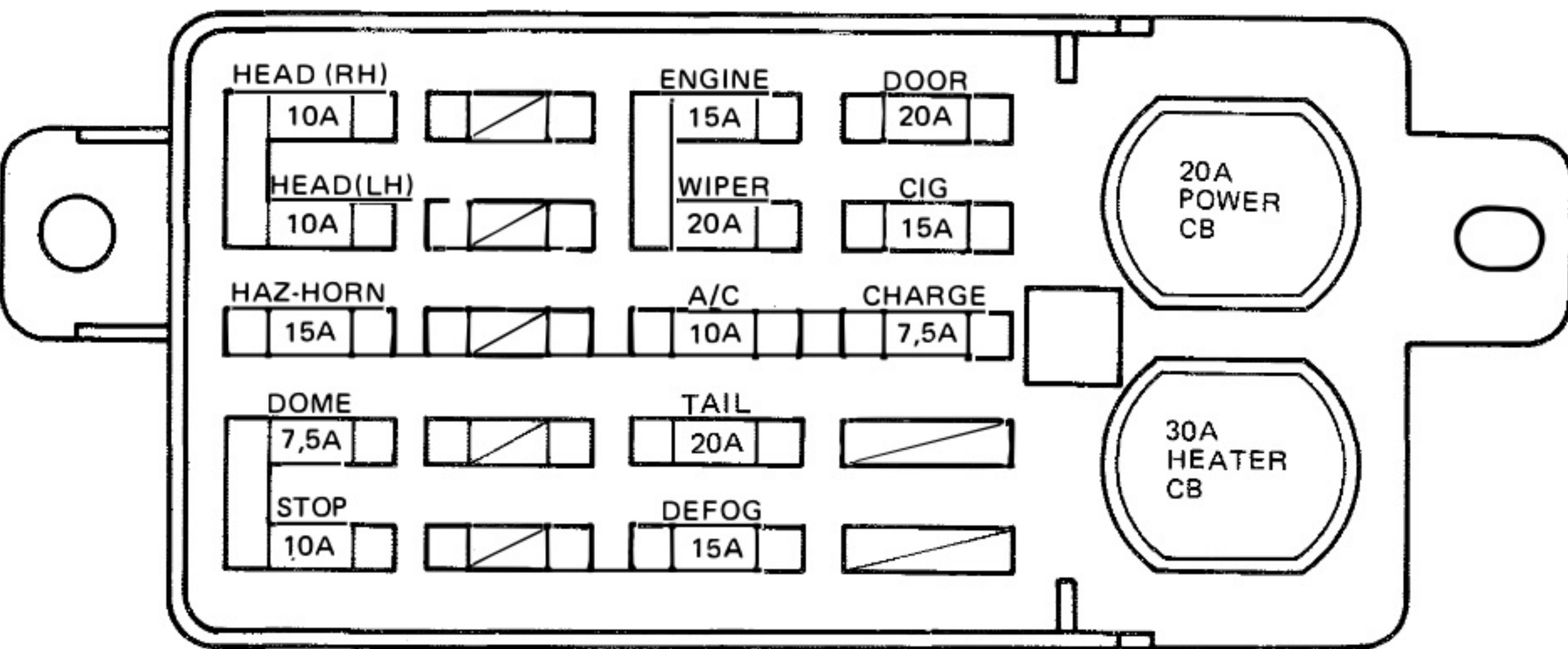
[Instrument Panel RHD]



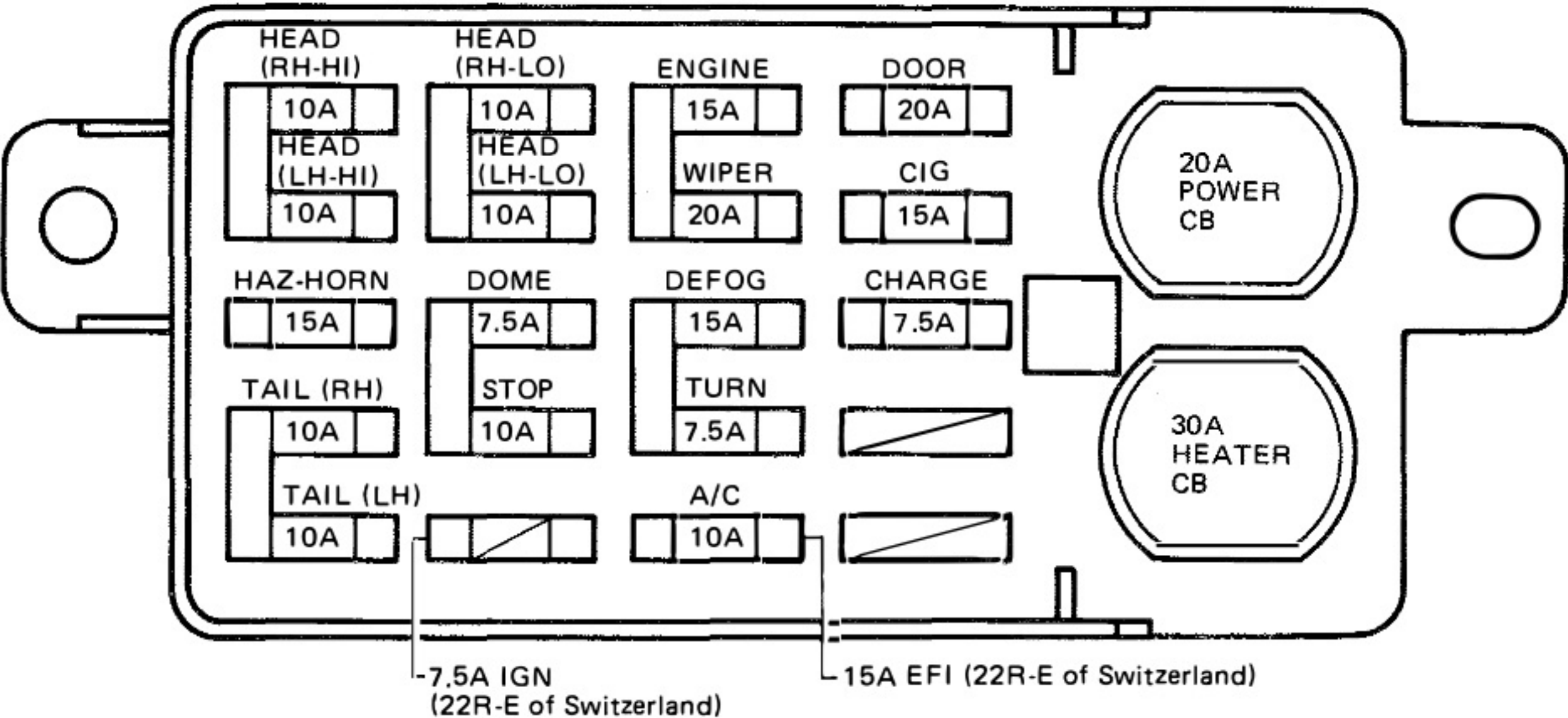
Relay Block



Fuse Block No. 1
[Ex. EUR]



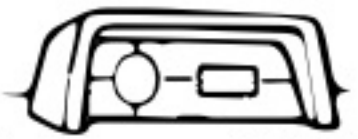
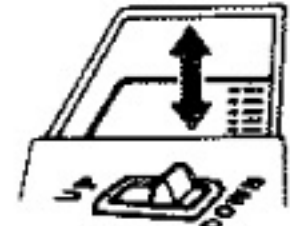
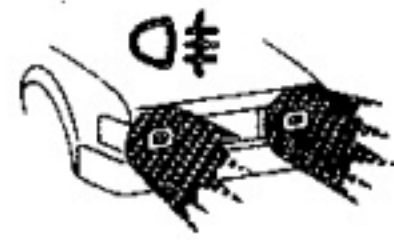
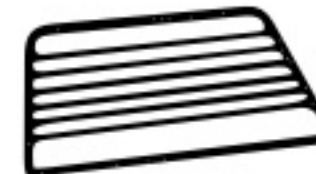
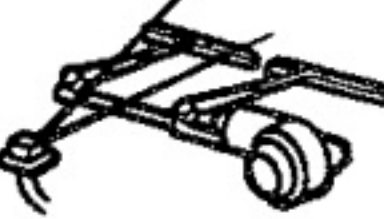
[EUR]

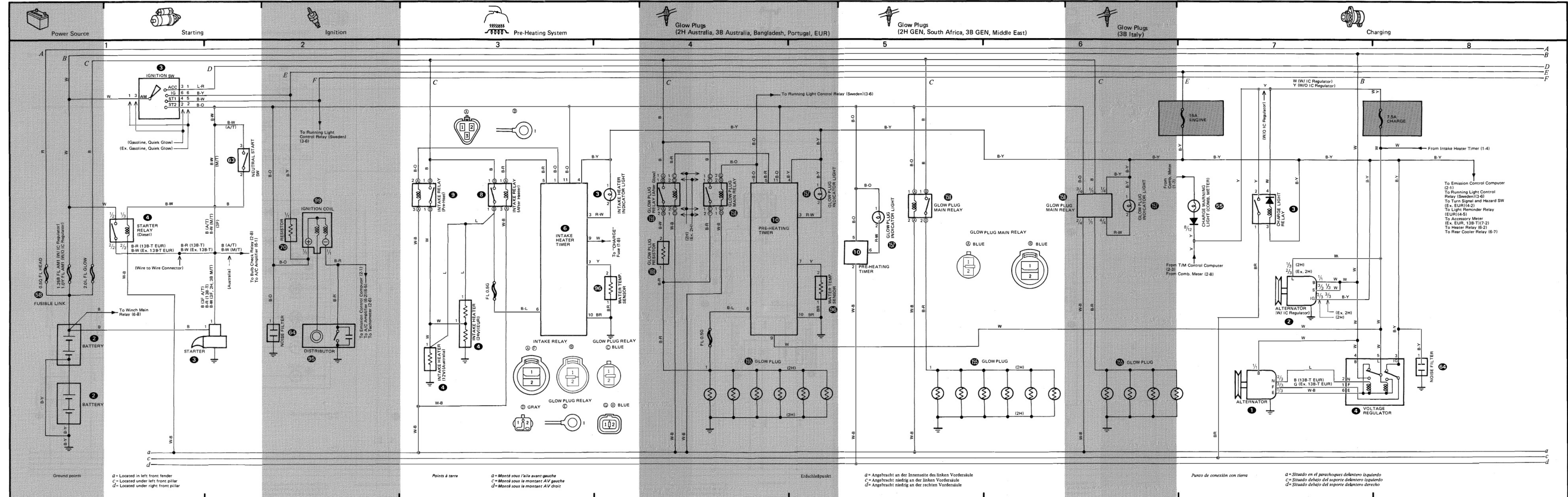


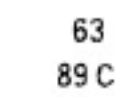
SYSTEM INDEX

LAND CRUISER 70 (Heavy-Duty)

1989 Production Vehicles (Page 1 to Page 7)

SYSTEMS	LOCATION	SYSTEMS	LOCATION
Accessory Meter	 7-2	Light Reminder	 4-5
Air Conditioner, Cooler and Heater	 6-2 (13B-T, 3B) 6-5 (3F, 2H)	Power Seats	 5-7
A/T Fluid Temp. Warning	 2-3	Power Source	 1-1
Back-Up Lights	 5-5	Power Windows	 5-7
Charging	 1-7	Pre-Heating System	 1-3
Cigarette Lighter	 4-6	Radio and Tape Player	 4-8
Clock	 4-6	Rear Air Conditioner	 6-7
Combination Meter	 2-7	Rear Fog Lights	 4-1
Door Locks	 5-8	Rear Window Defogger	 5-2
EDIC	 2-4 (2H)	Rear Wiper and Washer	 5-4
Emission Control	 2-1	Remote Control Mirrors	 4-7
Fog Lights	 4-4	Seat Belt Warning	 2-5
Front Wiper and Washer	 5-3	Starting	 1-1
Fuel Heater	 2-3	Stop Lights	 4-4
Glow Plugs	 1-4 (2H Australia, 3B Australia, Bangladesh, Portugal, EUR) 1-5 (2H GEN, South Africa, 3B GEN, Middle East) 1-6 (3B Italy)	Sun Roof	 5-6
Headlight Cleaner	 5-4	Taillights and Illumination	 3-1 (Ex. EUR) 3-5 (EUR)
Headlights	 3-3 (Ex. EUR) 3-7 (EUR) 5-1 (EUR, Sweden, Bangladesh) 5-1 (Ex. EUR, Sweden, Bangladesh)	Trailer Socket	 4-3
Horn	 5-1 (Ex. EUR, Sweden, Bangladesh)	Turn Signal and Hazard	 4-2
Ignition	 1-2	Winch	 6-8
Interior Lights	 4-5	4WD	 2-5



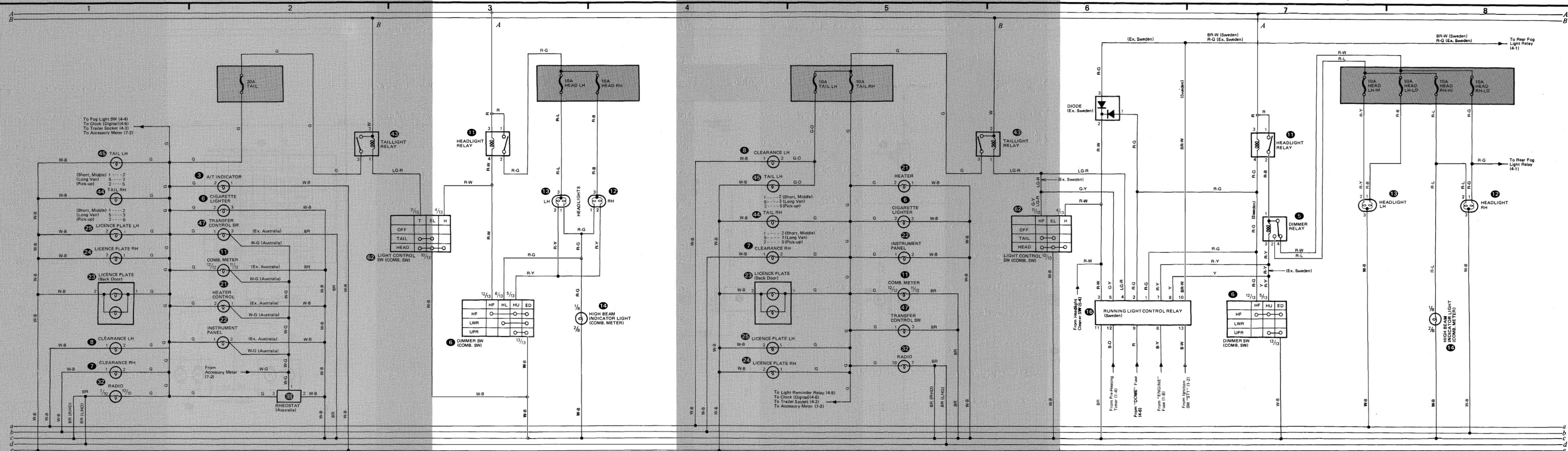


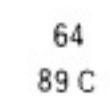
Taillight and Illumination (Ex. EUR)

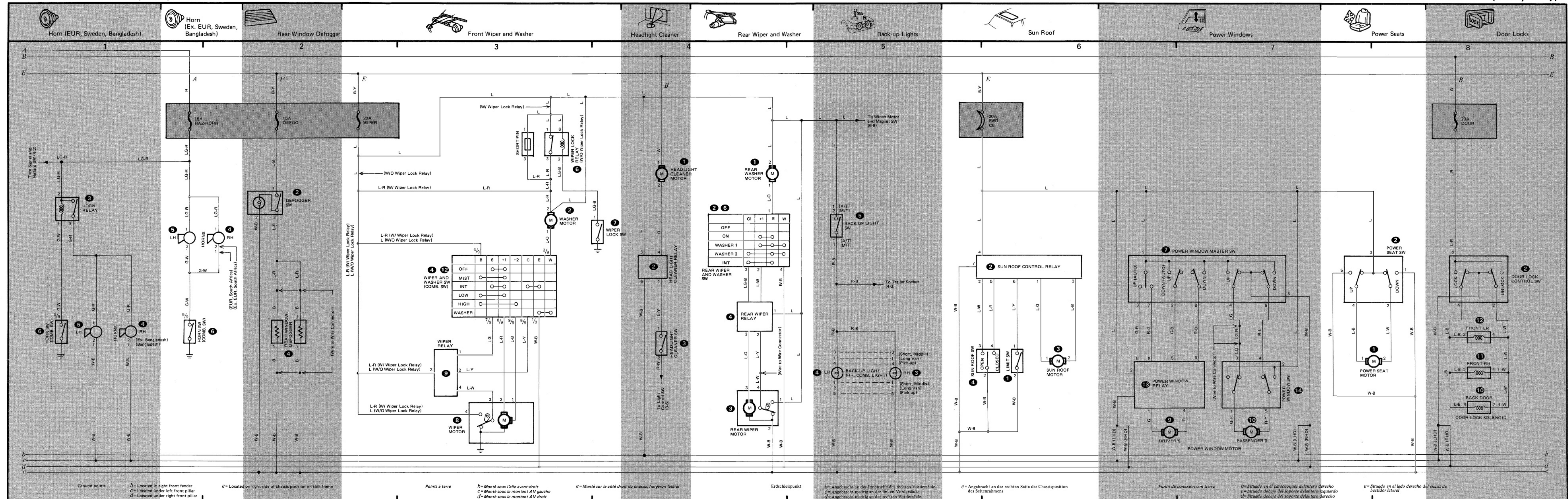
Headlight (Ex. EUR)

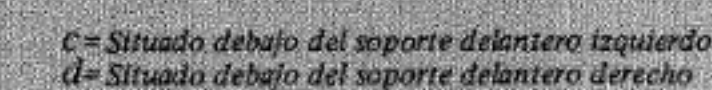
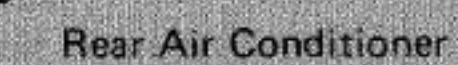
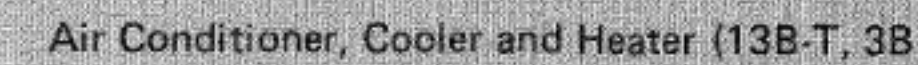
Taillight and Illumination (EUR)

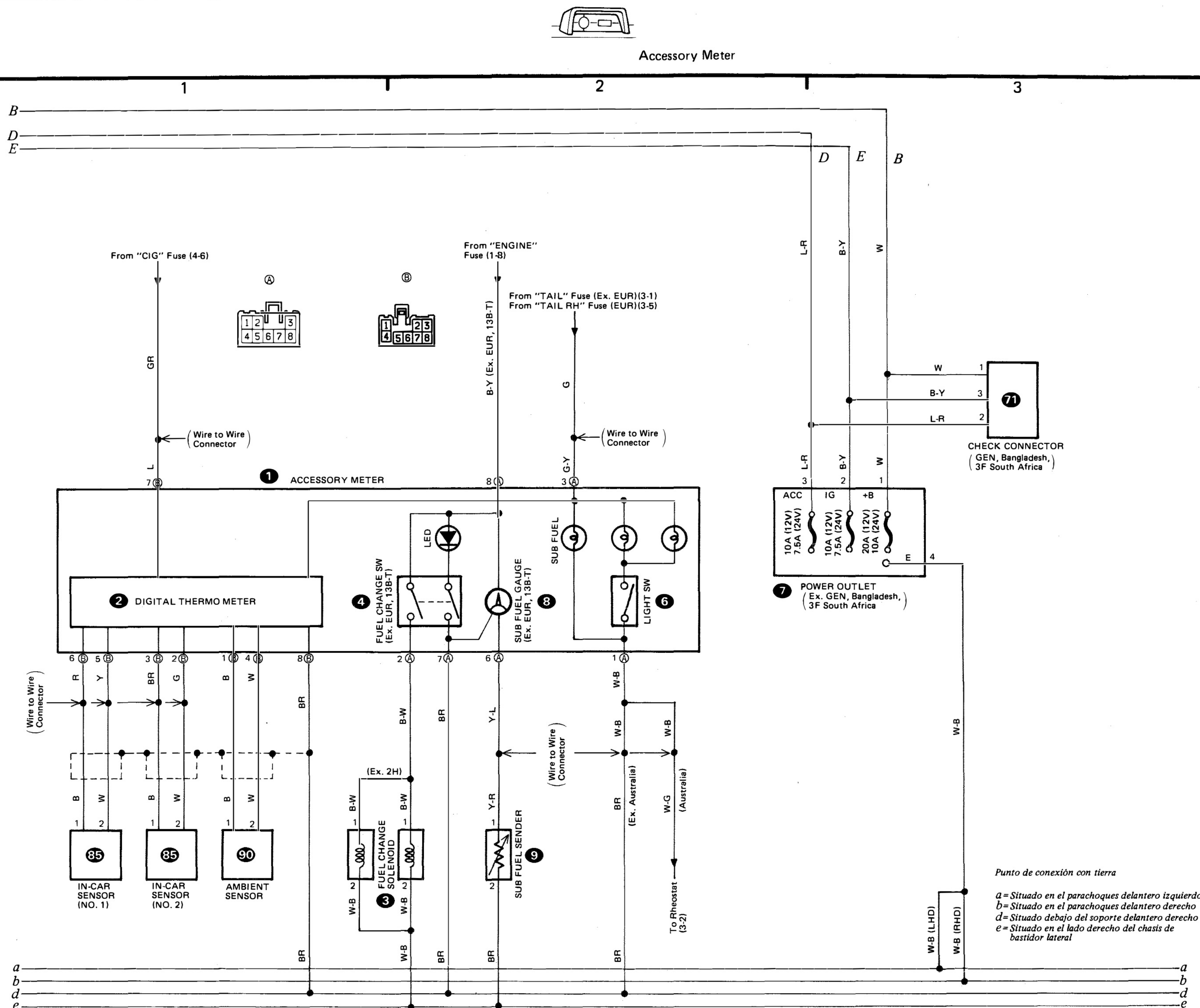
Headlight (EUR)











Ground points

a = Located in left front fender
b = Located in right front fender
d = Located under right front pillar
e = Located on right side of chassis position on side frame

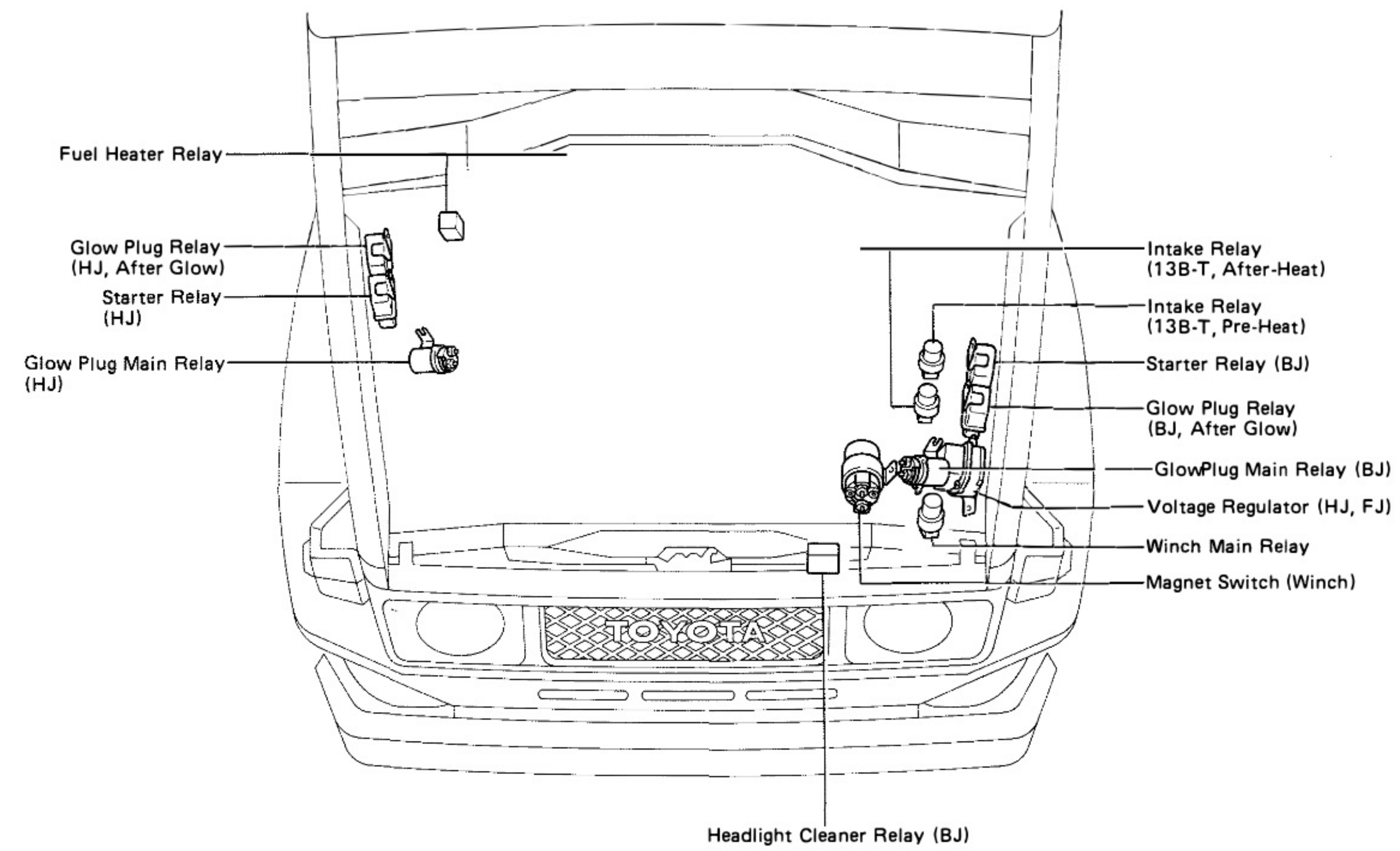
Points à terre

a = Monté sous l'aile avant-gauche
b = Monté sous l'aile avant-droit
d = Monté sous le montant AV droit
e = Monté sur le côté droit du châssis, longeron latéral

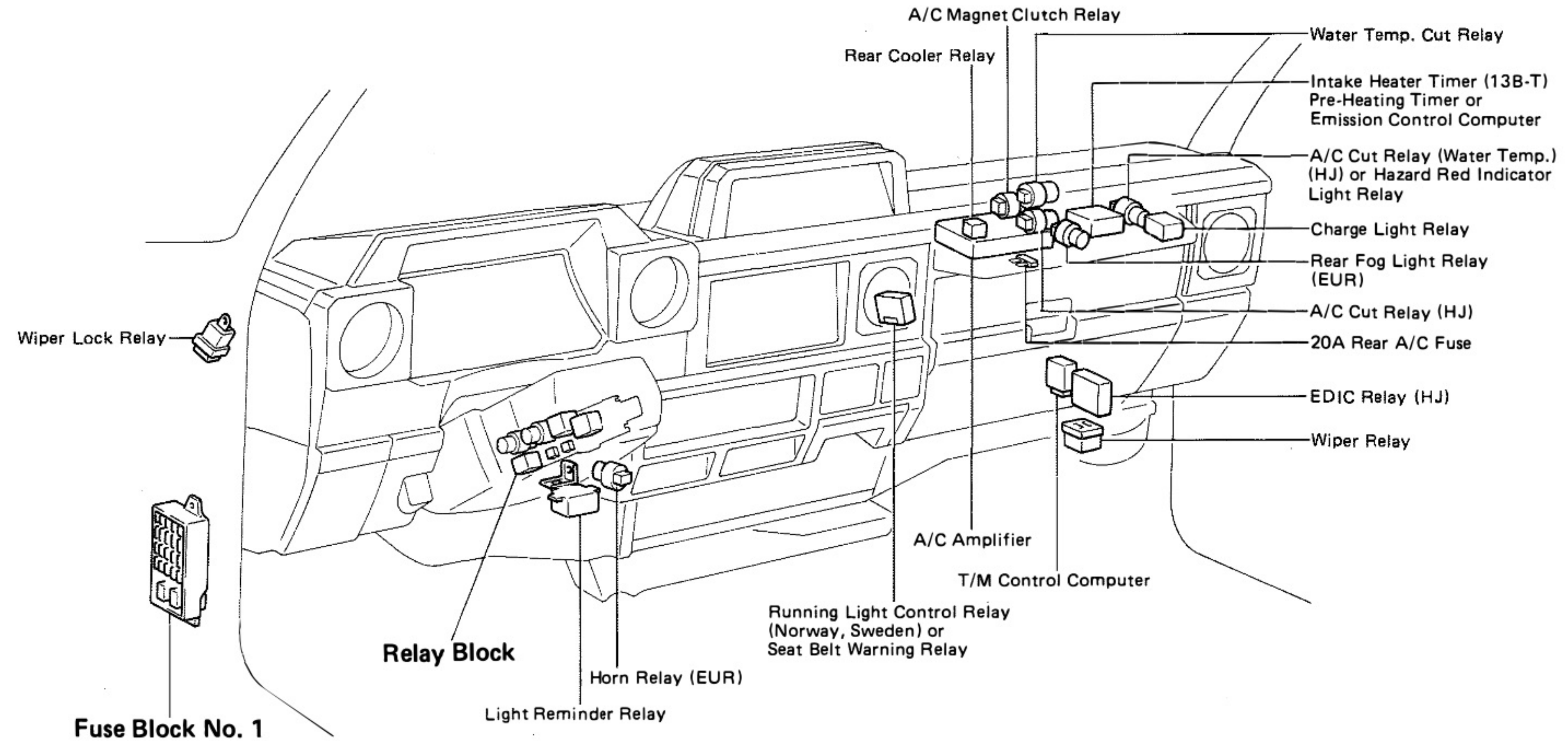
Erdschleßpunkt

a = Angebracht an der Innenseite des linken Vordersäule
b = Angebracht an der Innenseite des rechten Vordersäule
d = Angebracht niedrig an der rechten Vordersäule
e = Angebracht an der rechten Seite der Chassisposition des Seitenrahmens

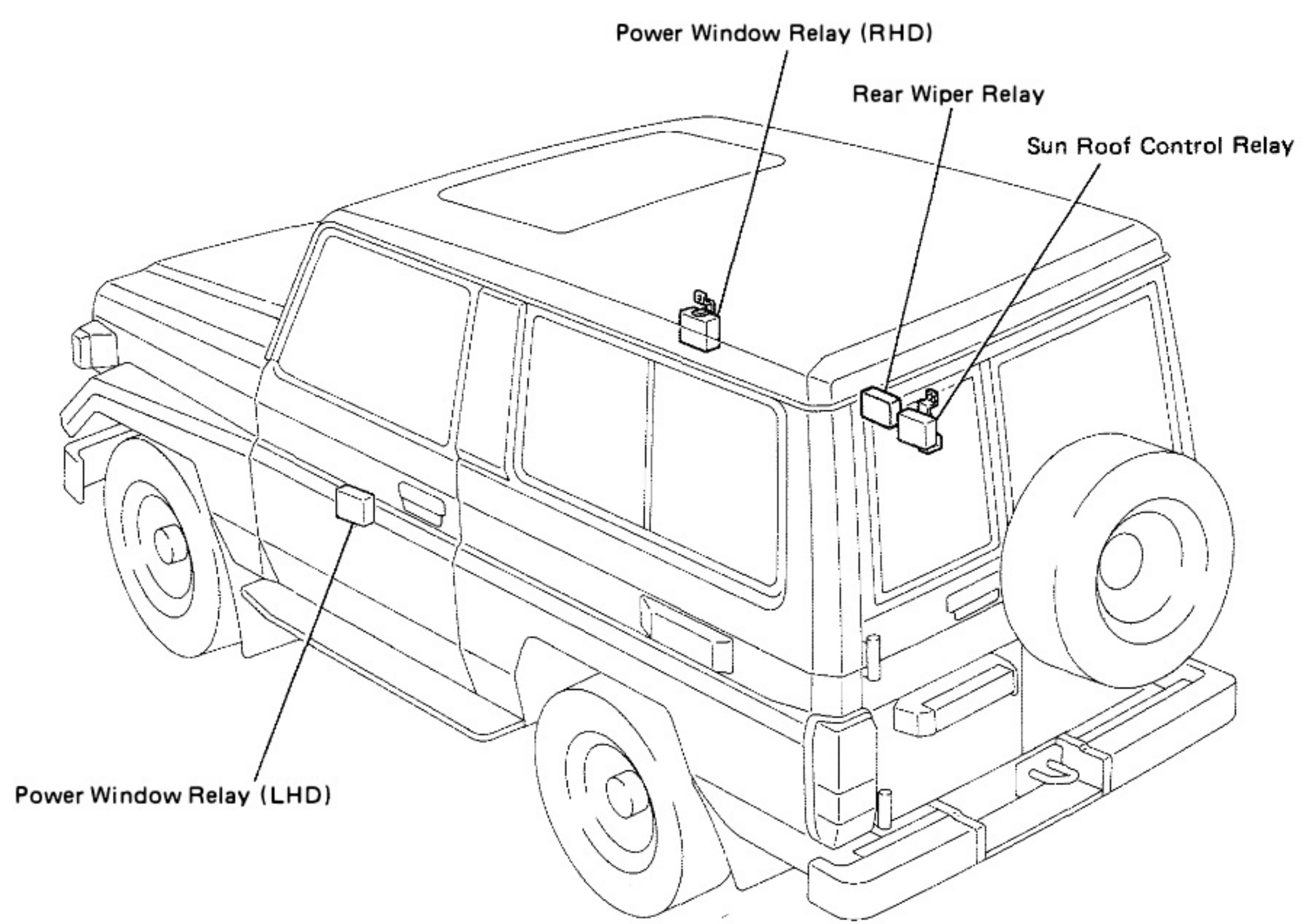
[Engine Compartment]



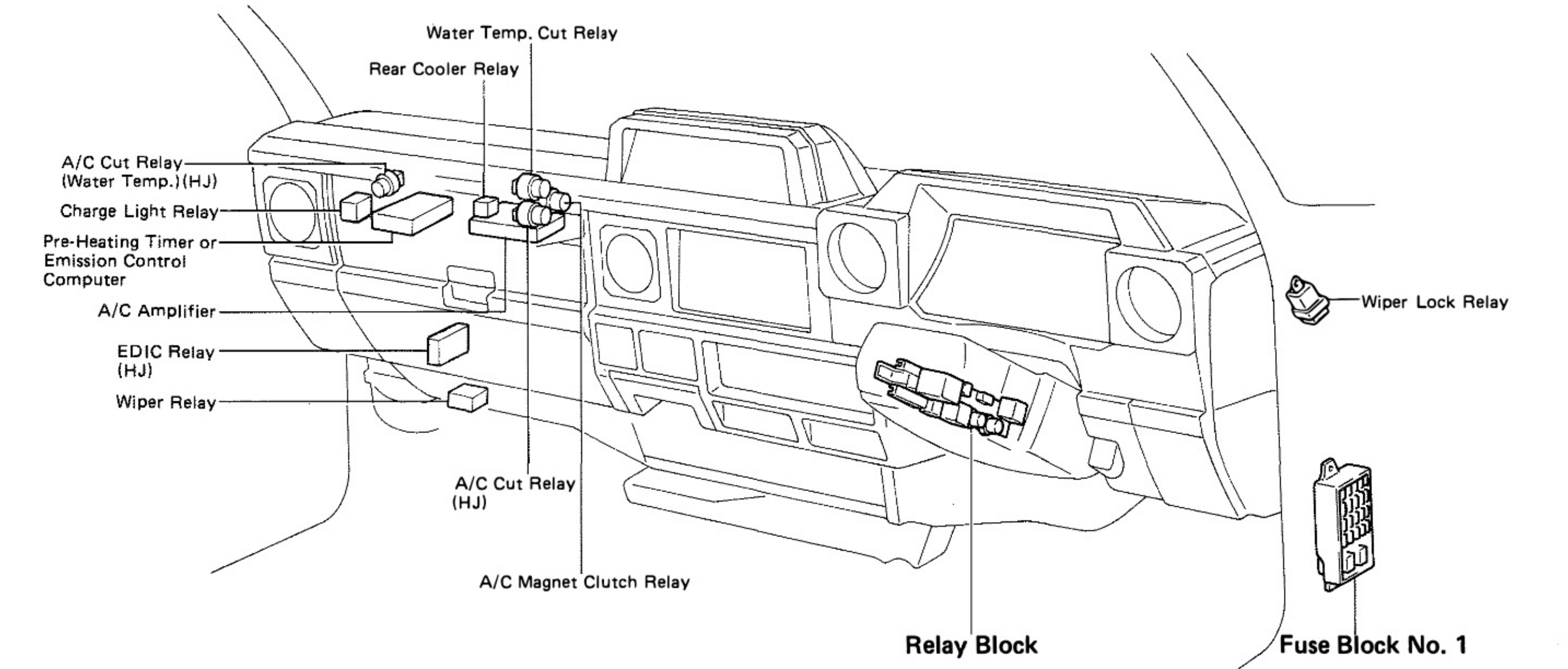
[Instrument Panel LHD]



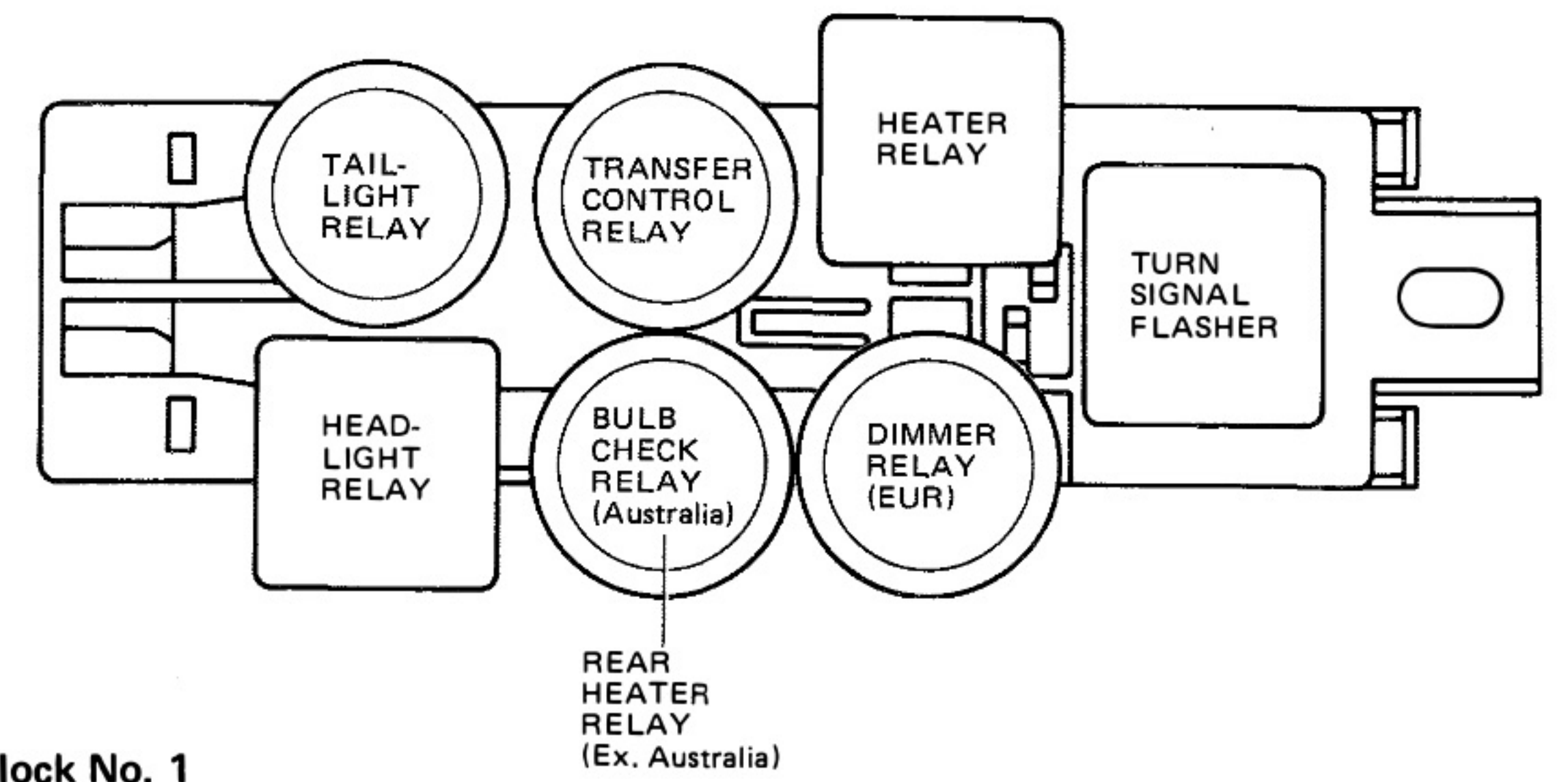
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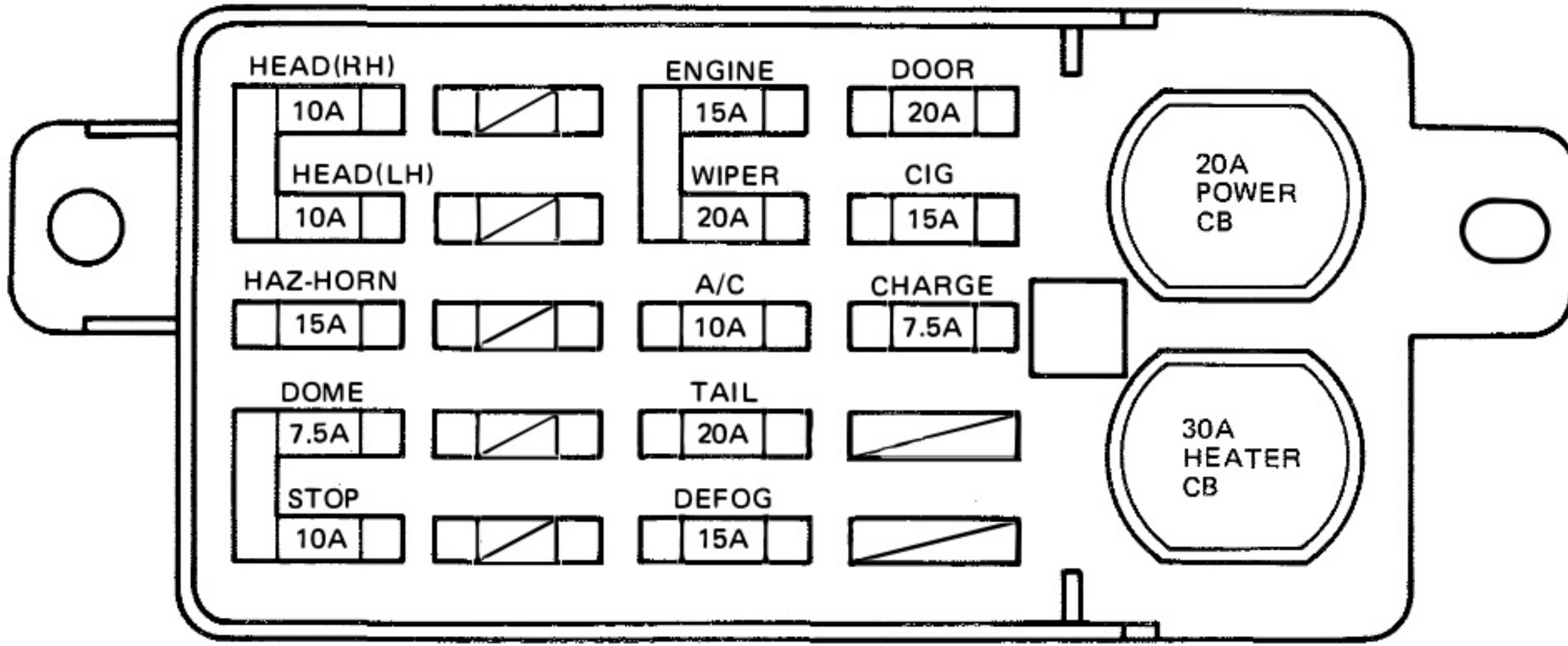
[Instrument Panel RHD]



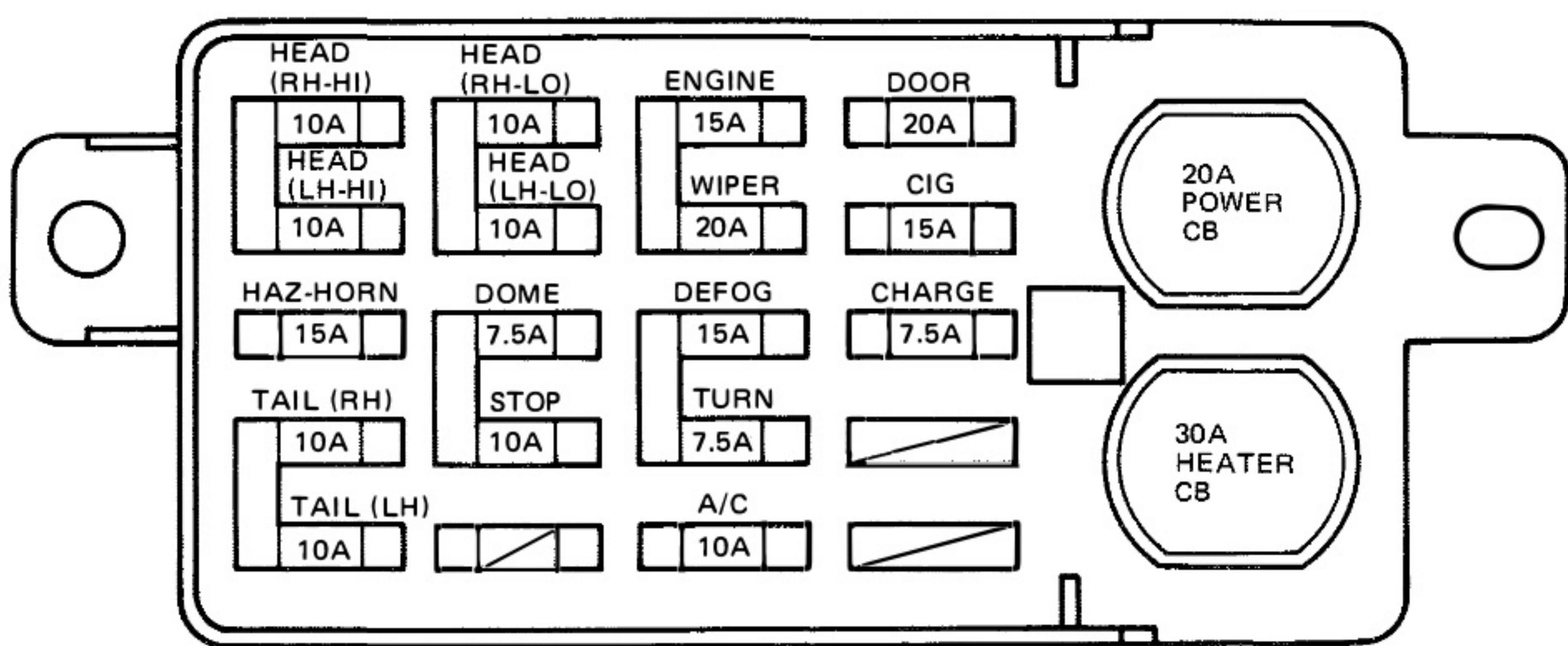
Relay Block



Fuse Block No. 1
[Ex. EUR]



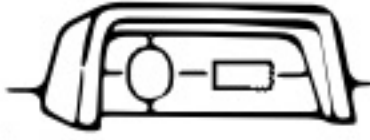
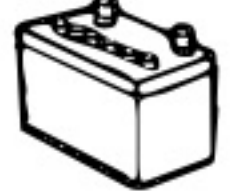
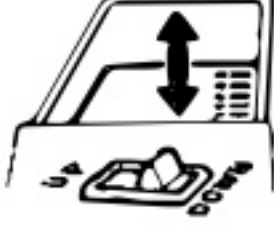
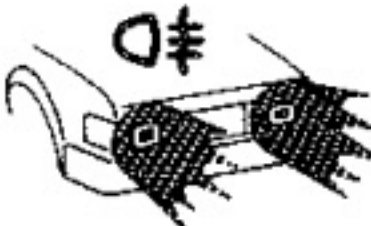
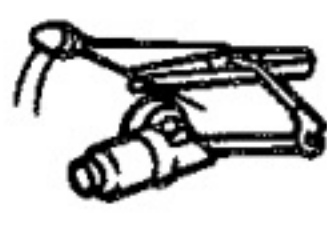
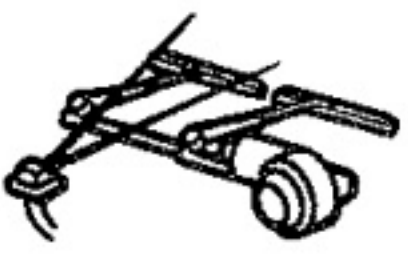
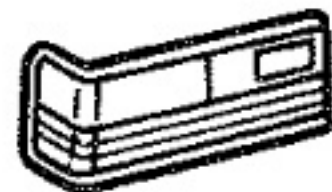
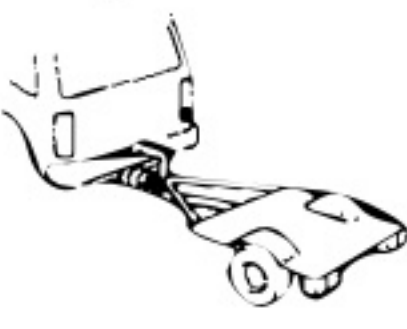
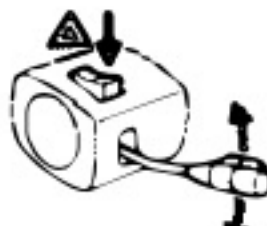
[EUR]

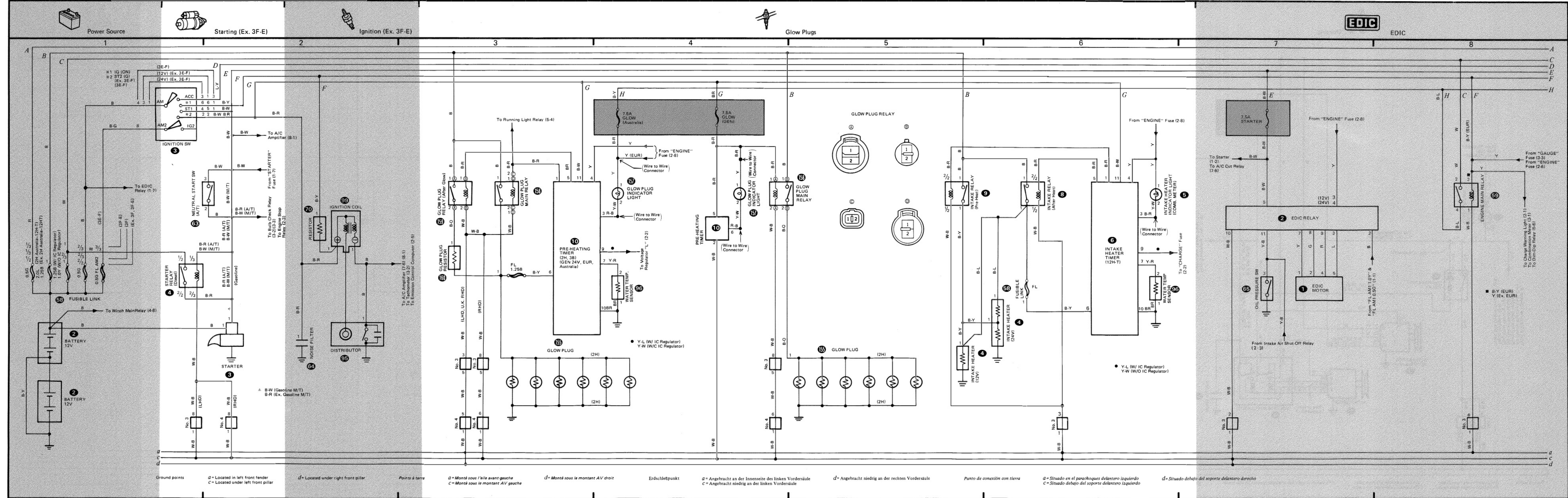


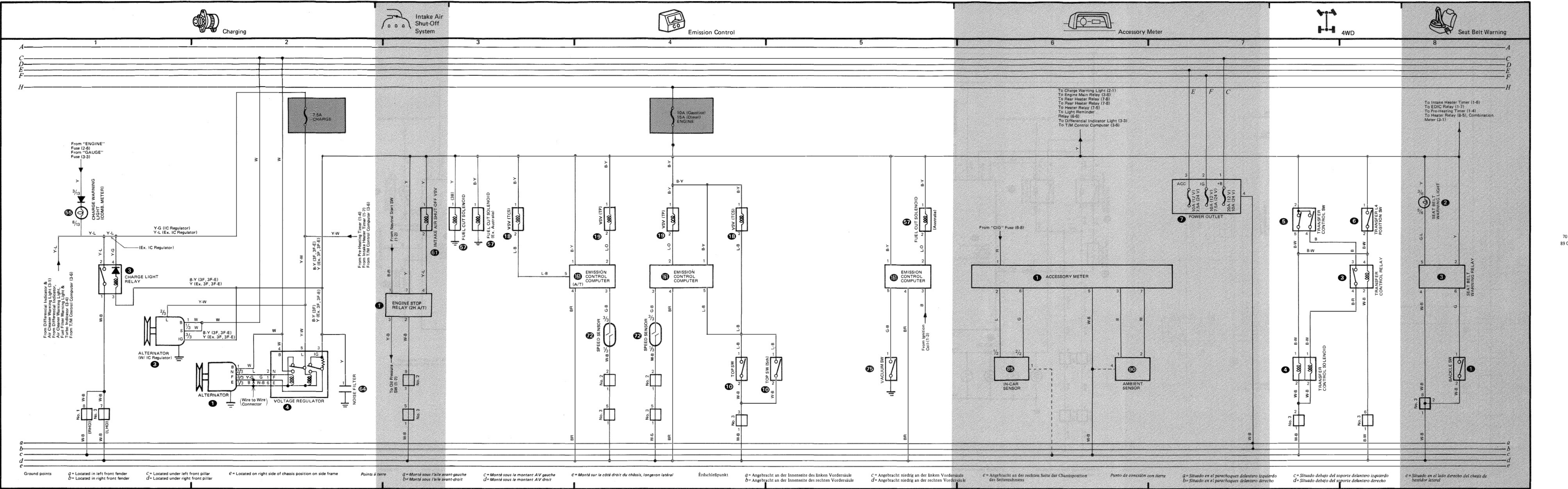
SYSTEM INDEX

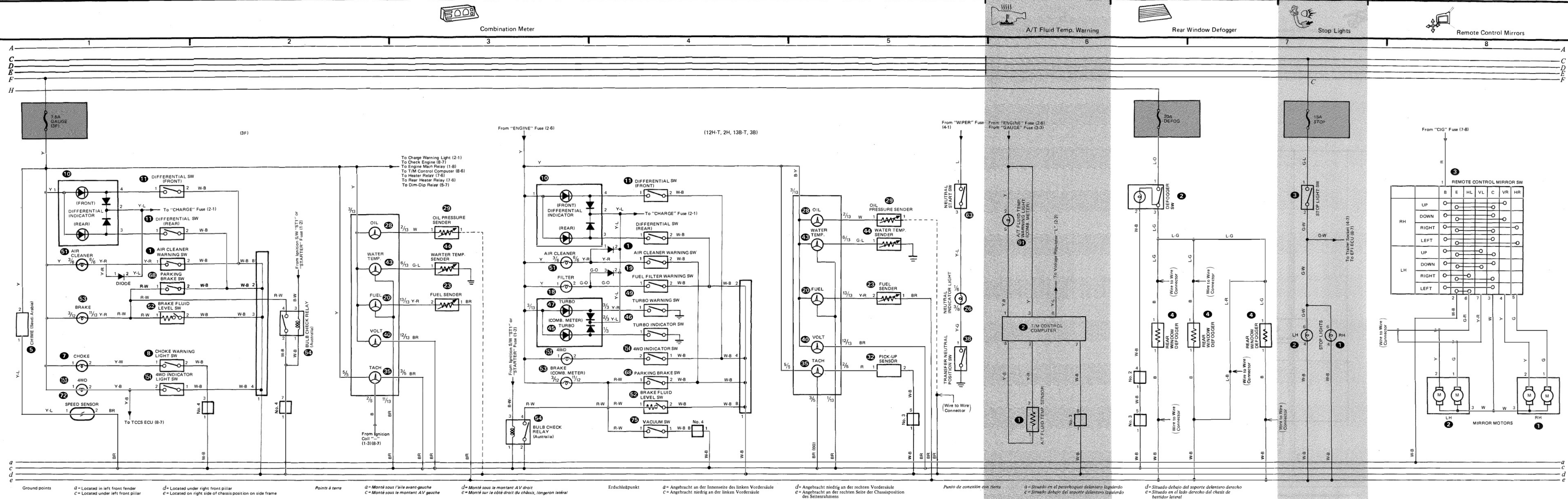
LAND CRUISER 60

1989 Production Vehicles (Page 1 to Page 8)

SYSTEMS	LOCATION	SYSTEMS	LOCATION
Accessory Meter	 2-6	Interior Lights	 6-7
Air Conditioner, Cooler and Heater	 7-6 (Dual A/C) 8-2 (Single A/C)	Light Reminder	 6-6
Auto Antenna	 7-1	Power Seats	 6-4
A/T Fluid Temp. Warning	 3-6	Power Source	 1-1 8-3 (3F-E)
Back-Up Lights	 4-4	Power Windows	 6-3
Charging	 2-2	Radio and Tape Player	 7-2
Cigarette Lighter	 6-8	Rear Air Conditioner	 7-8
Clock	 6-8	Rear Fog Lights	 8-2
Combination Meter	 3-3	Rear Window Defogger	 3-6
Cool and Hot Box	 7-4	Rear Wiper and Washer	 4-3
Door Locks	 6-5	Remote Control Mirrors	 3-8
EDIC	 1-7	Seat Belt Warning	 2-8
EFI	 8-6	Starting	 1-1 (Ex. 3F-E) 8-4 (3F-E)
Emission Control	 2-4	Stop Lights	 3-7
Front Wiper and Washer	 4-2	Sun Roof	 6-1
Glow Plugs	 1-4	Taillights and Illumination	 5-2
Headlight Cleaner	 4-4	Trailer Socket	 4-6
Headlights	 5-6	Turn Signal and Hazard	 4-5
Horn	 4-7	Winch	 4-8
Ignition	 1-2 (Ex. 3F-E) 8-7 (3F-E)	4WD	 2-7
Intake Air Shut-Off System	 2-3		

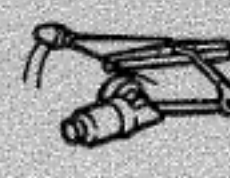








Front Wiper and Washer



Rear Wiper and Washer



Headlight Cleaner



Back-up Lights



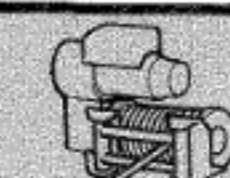
Turn Signal and Hazard



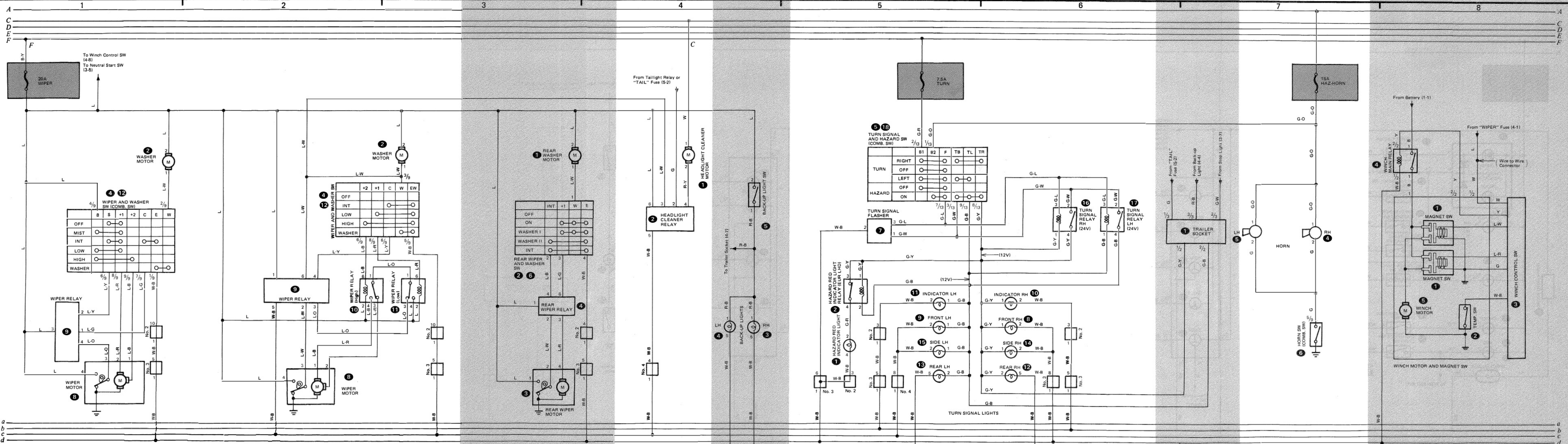
Trailer Socket



Horn



Winch

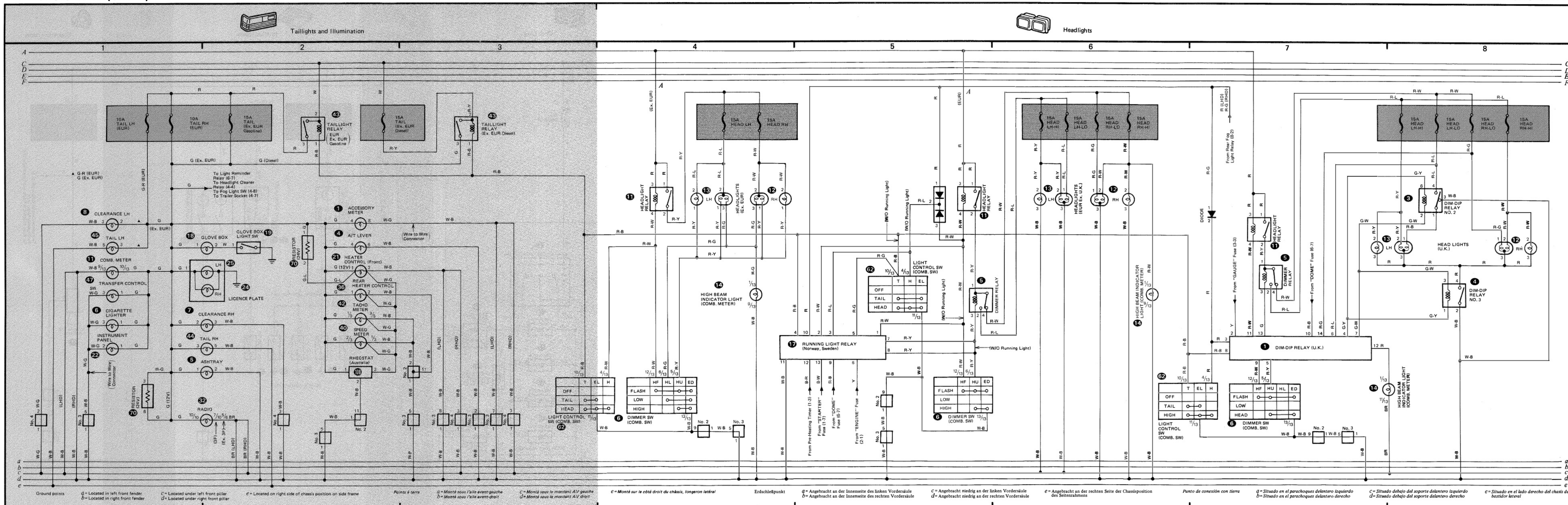


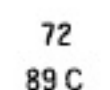
Ground points a = Located in left front fender b = Located in right front fender c = Located under left front pillar d = Located under right front pillar e = Located on right side of chassis position on side frame

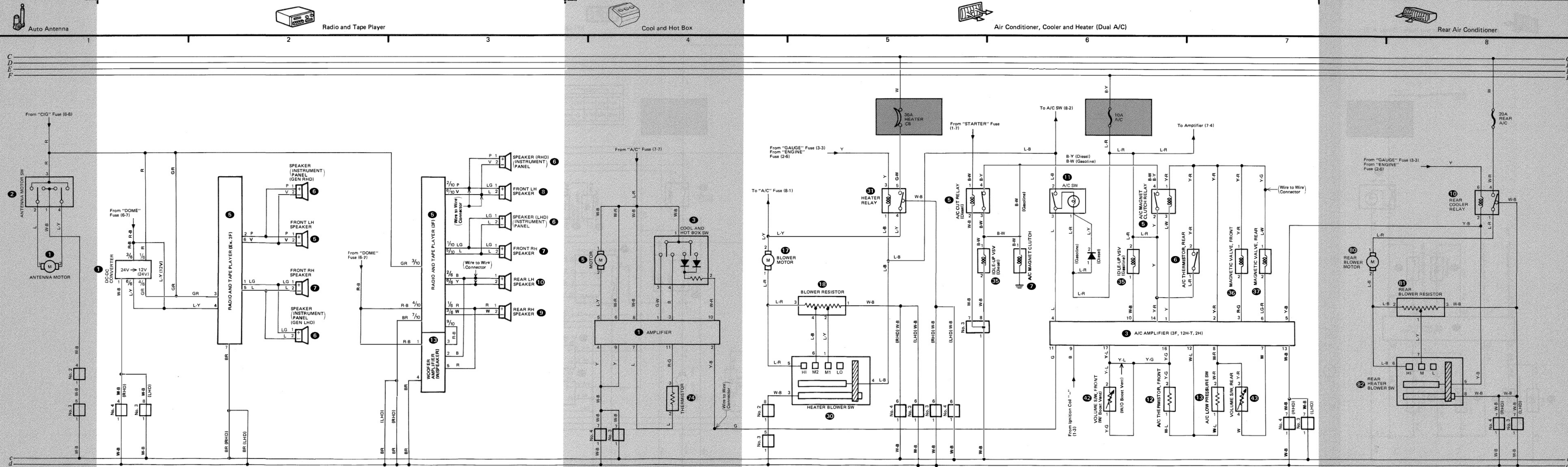
Points à terre a = Monté sous l'aile avant-gauche b = Monté sous l'aile avant-droit c = Monté sous le montant AV gauche d = Monté sous le montant AV droit e = Monté sur le côté droit du châssis, longeron latéral

Erdschlepppunkt a = Angebracht an der Innenseite des linken Vordersäule b = Angebracht an der Innenseite des rechten Vordersäule c = Angebracht niedrig an der linken Vordersäule d = Angebracht niedrig an der rechten Vordersäule e = Angebracht an der rechten Seite der Chassisposition des Seitenrahmens

Punto de conexión con tierra a = Situado en el parabrisas delantero izquierdo b = Situado en el parabrisas delantero derecho c = Situado debajo del soporte delantero izquierdo d = Situado debajo del soporte delantero derecho e = Situado en el lado derecho del chasis de bastidor lateral







Ground points

C= Located under left front pillar
d= Located under right front pillar

Points à terre

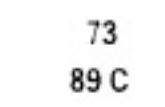
C= Monté sous le montant AV gauche
d= Monté sous le montant AV droit

Erdschließpunkt

C= Angebracht niedrig an der linken Vordersäule
d= Angebracht niedrig an der rechten Vordersäule

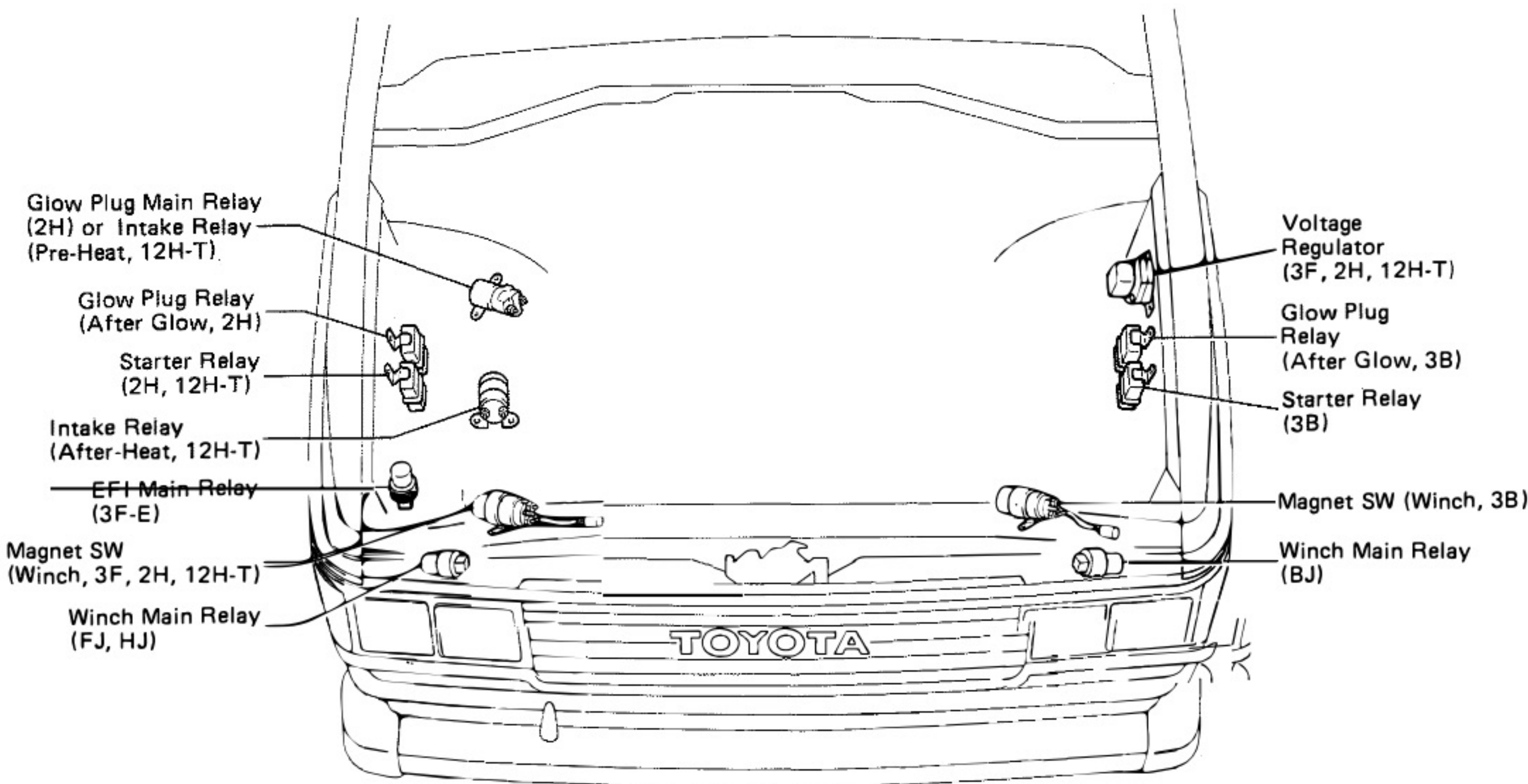
Punto de conexión con tierra

C= Situado debajo del soporte delantero izquierdo
d= Situado debajo del soporte delantero derecho

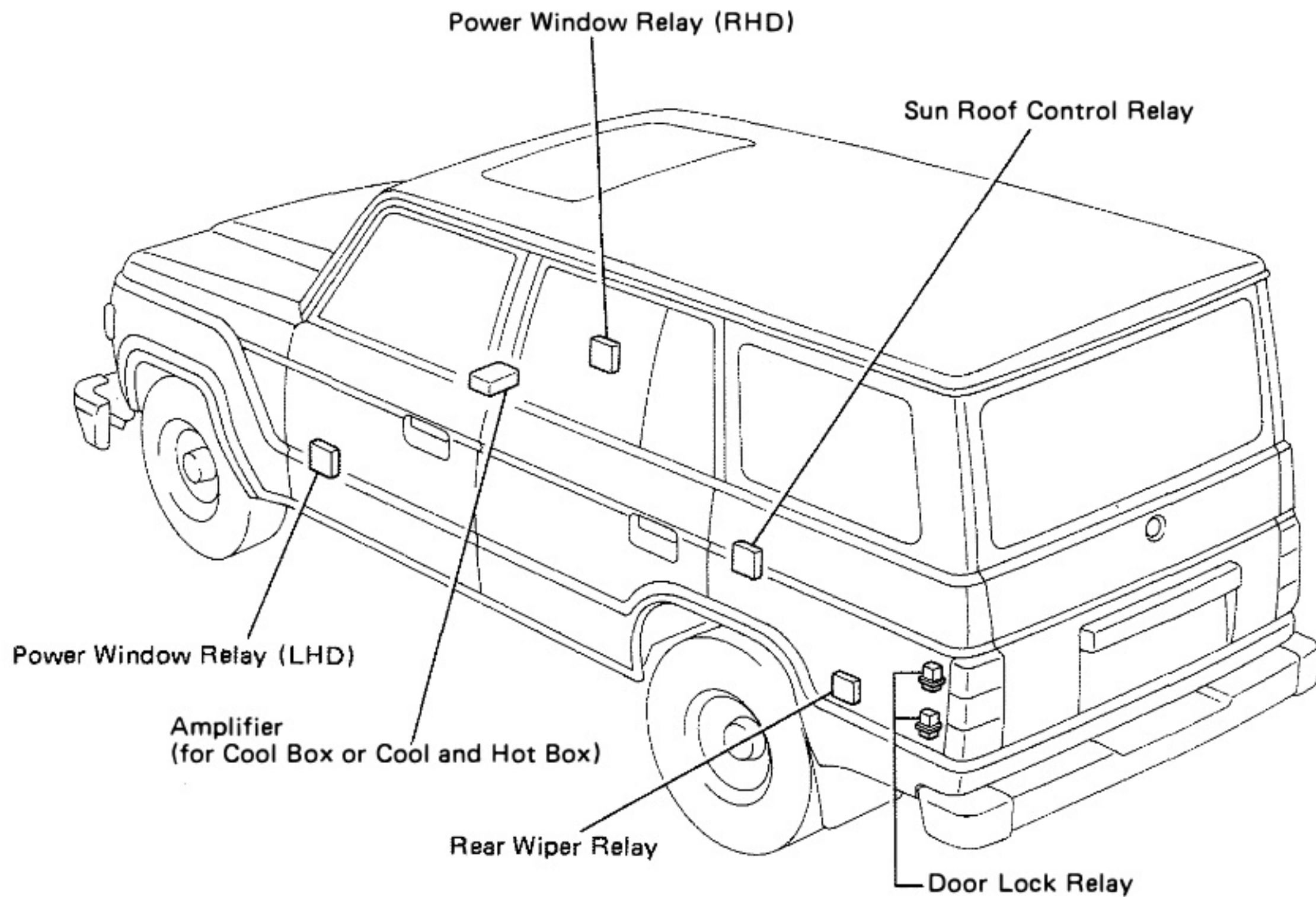


e = Situado en el lado derecho del chasis de bastidor lateral.

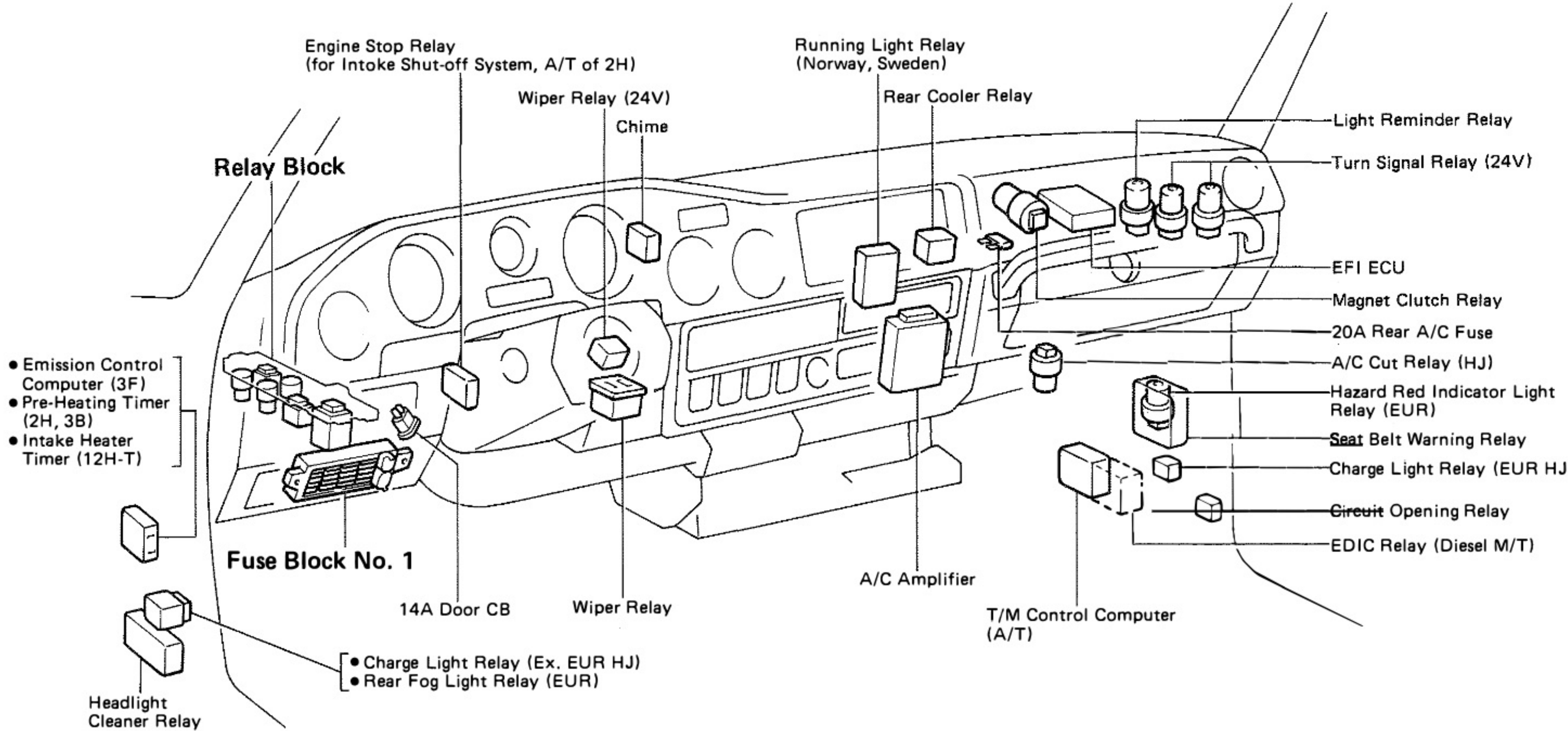
[Engine Compartment]



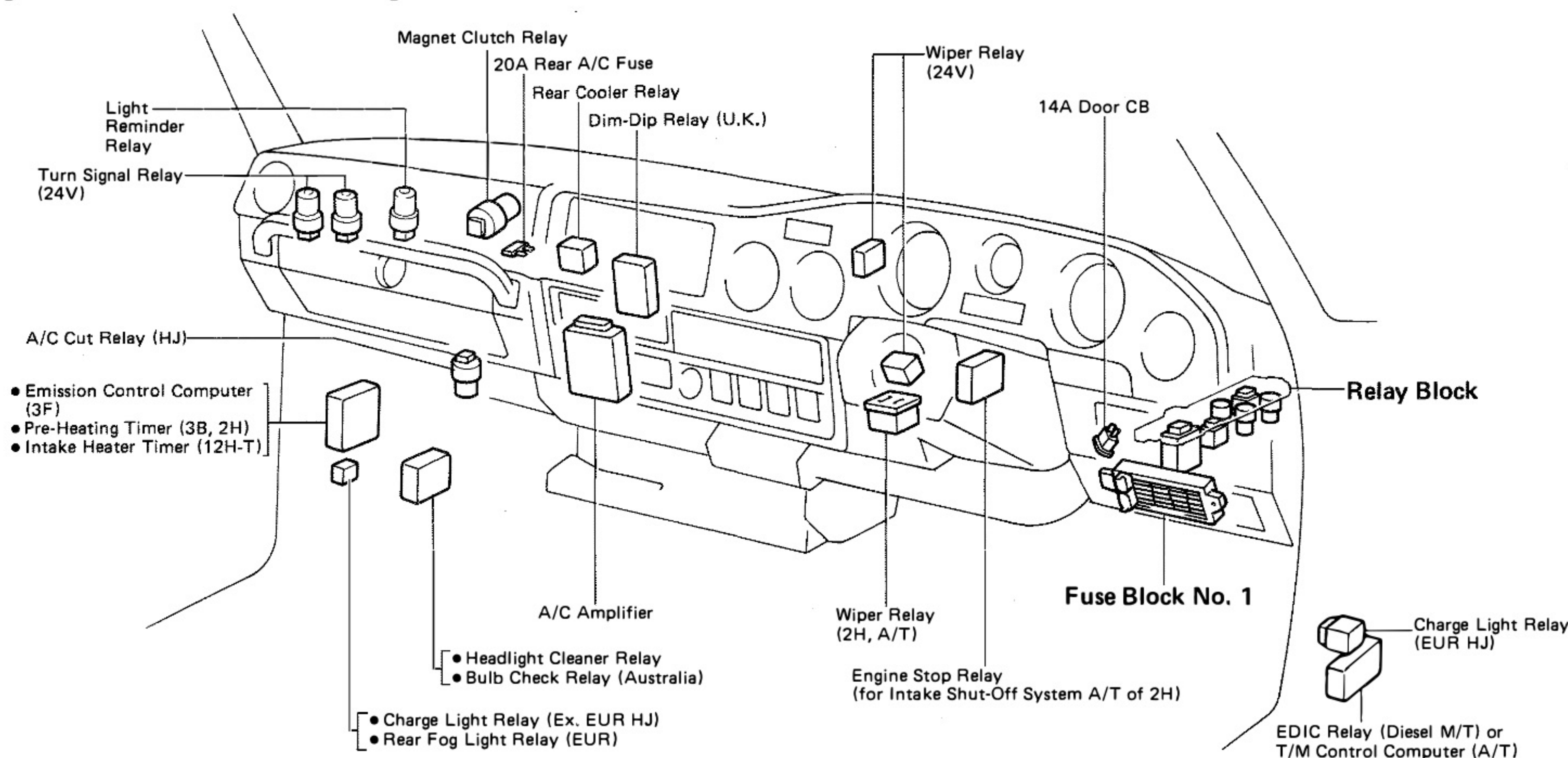
[Body]



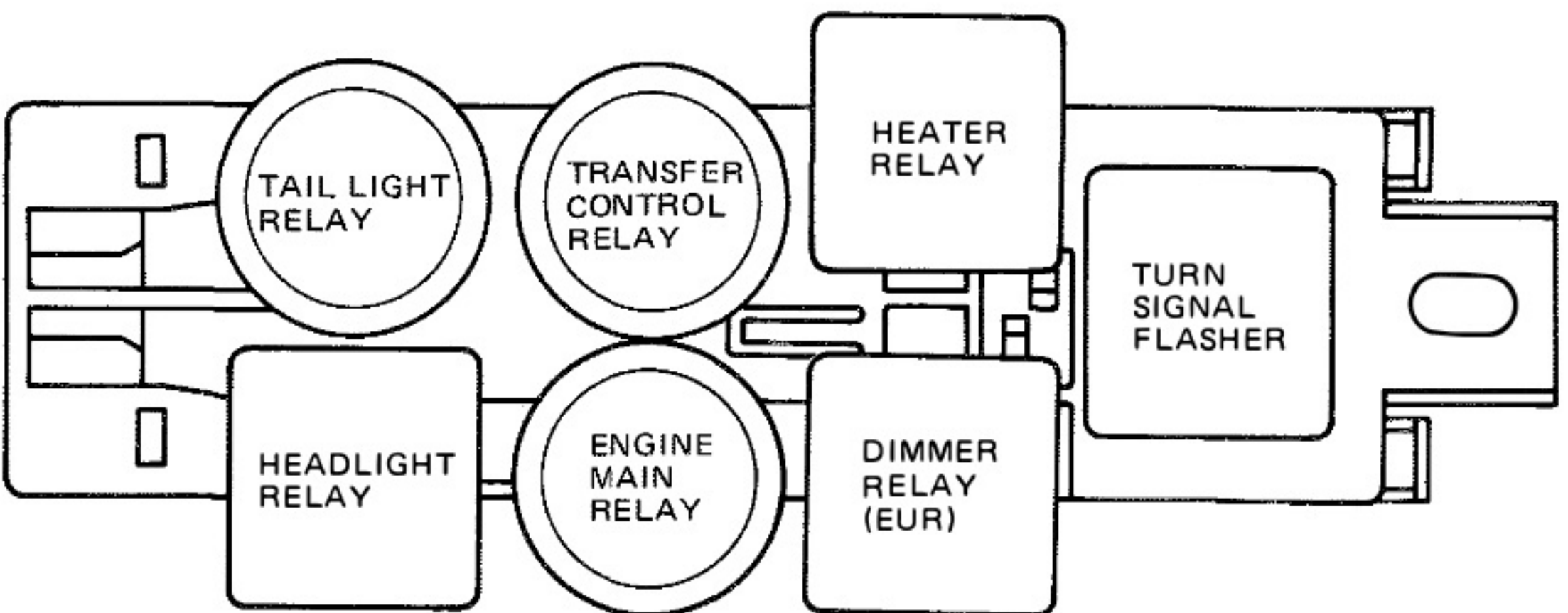
[Instrument Panel LHD]



[Instrument Panel RHD]

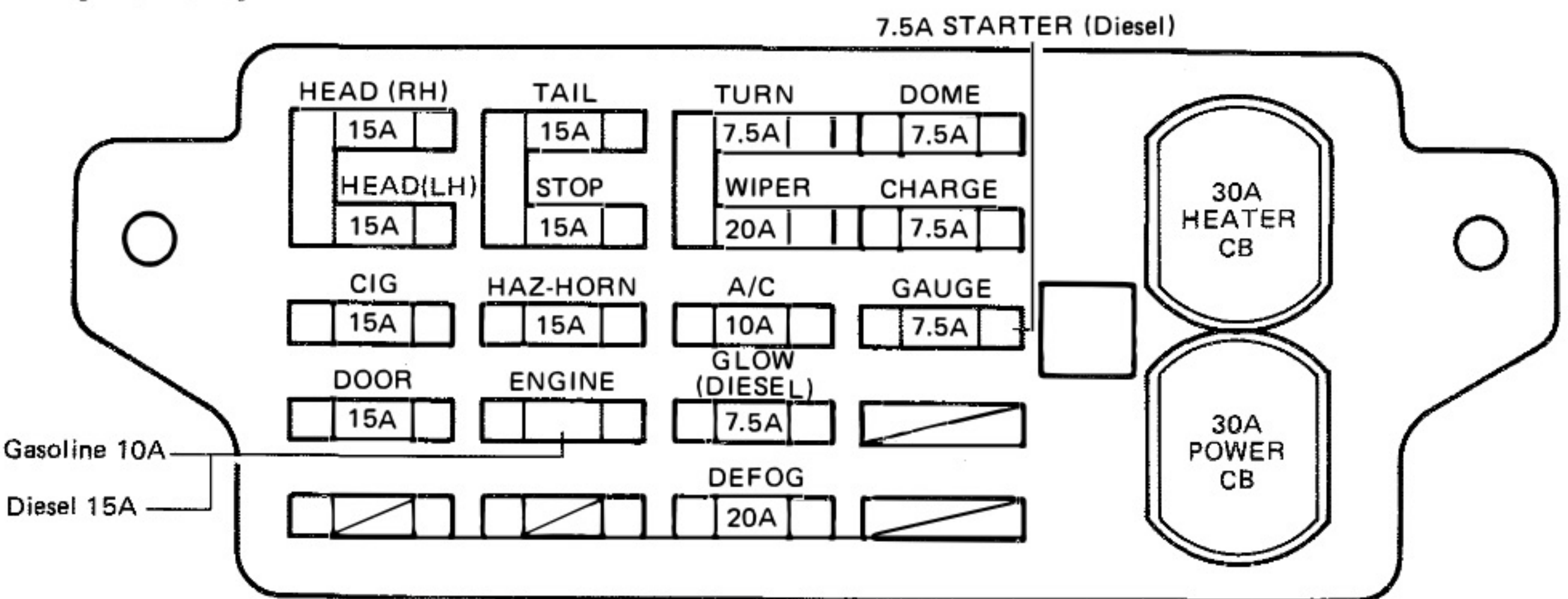


Relay Block

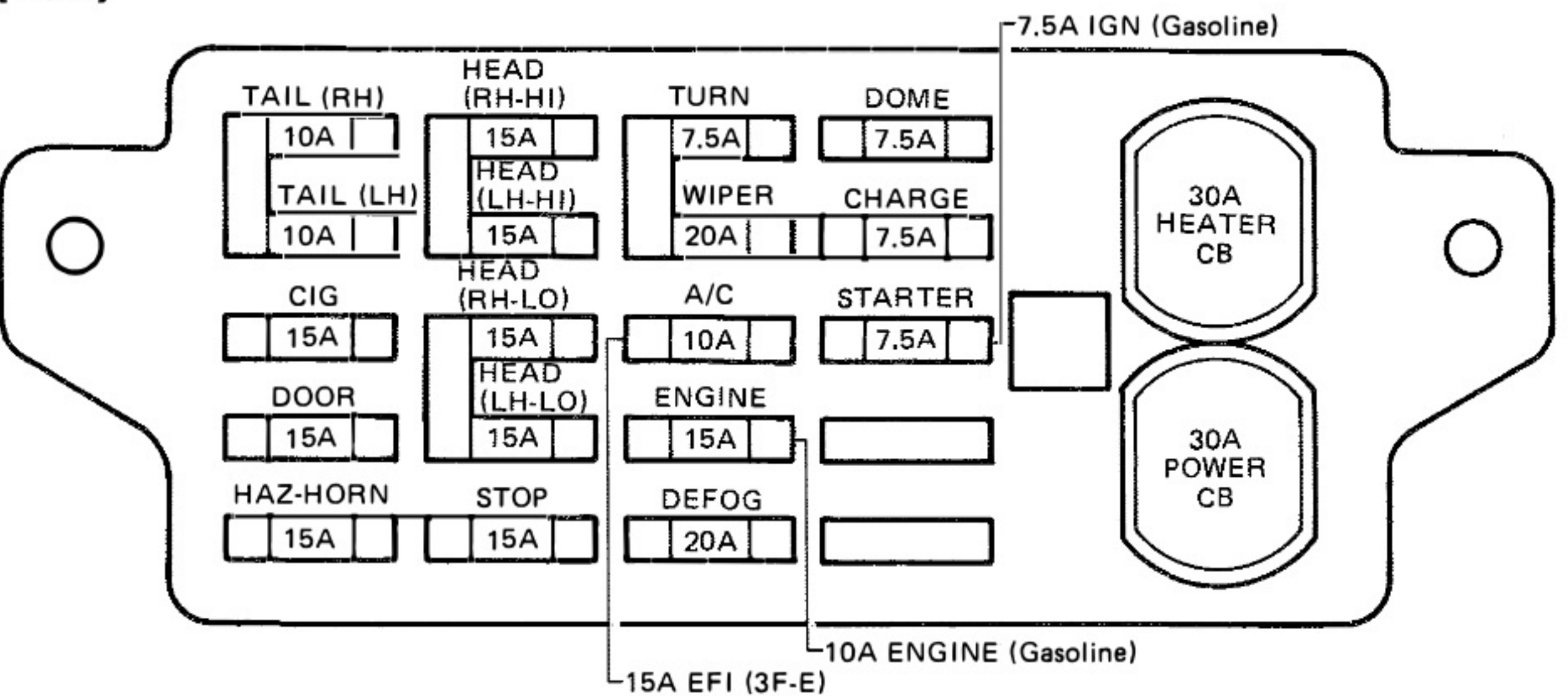


Fuse Block No. 1

[Ex. EUR]



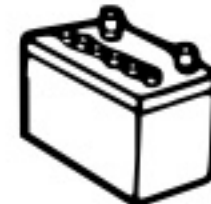
[EUR]



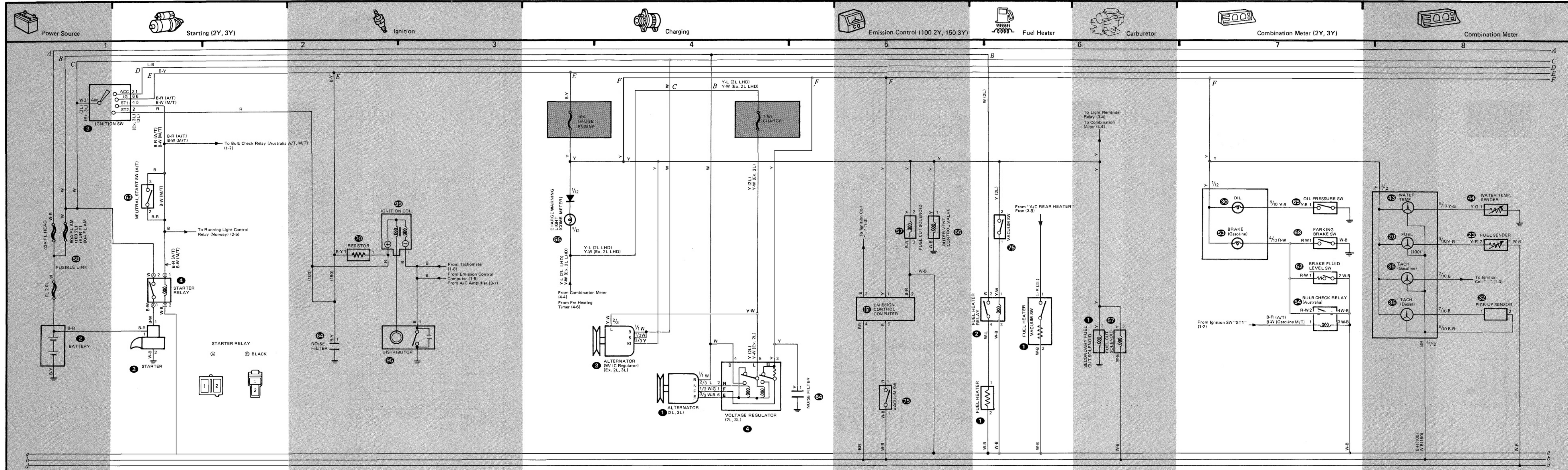
SYSTEM INDEX

DYNA 100, 150

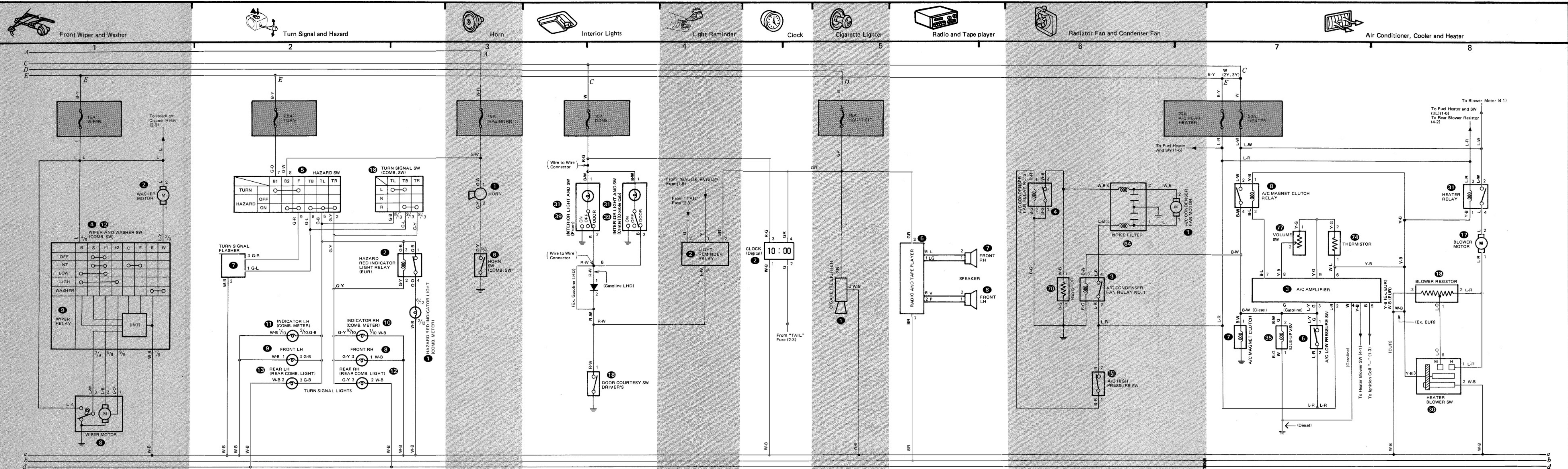
1989 Production Vehicles (Page 1 to Page 4)

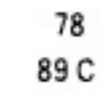
SYSTEMS	LOCATION	SYSTEMS	LOCATION
Air Conditioner, Cooler and Heater 	3-7, 4-1	Light Reminder 	3-4
Automatic Transmission Indicator 	4-7	Overdrive 	2-1 (100 Australia)
Back-Up Lights 	2-2	Power Source 	1-1
Carburetor 	1-6	Radiator Fan and Condenser Fan 	3-6
Charging 	1-4	Radio and Tape Player 	3-5
Cigarette Lighter 	3-5	Rear Air Conditioner (Rear Heater) 	4-2
Clock 	3-4	Starting 	1-1 (2Y, 3Y) 4-3 (2L, 3L)
Combination Meter 	1-7 (2Y, 3Y) 1-8 4-4 (2L, 3L)	Stop Lights 	2-1
Emission Control 	1-5 (100 2Y, 150 3Y)	Taillights and Illumination 	2-3
Fog Lights 	2-2 (150)	Turn Signal and Hazard 	3-2
Front Wiper and Washer 	3-1		
Fuel Heater 	1-6		
Glow Plugs 	4-5 (GEN) 4-6 (Ex. GEN)		
Headlight Cleaner 	2-8 (100)		
Headlights 	2-5 (100) 2-7 (150)		
Horn 	3-3		
Ignition 	1-2		
Interior Lights 	3-3		

75
89 C

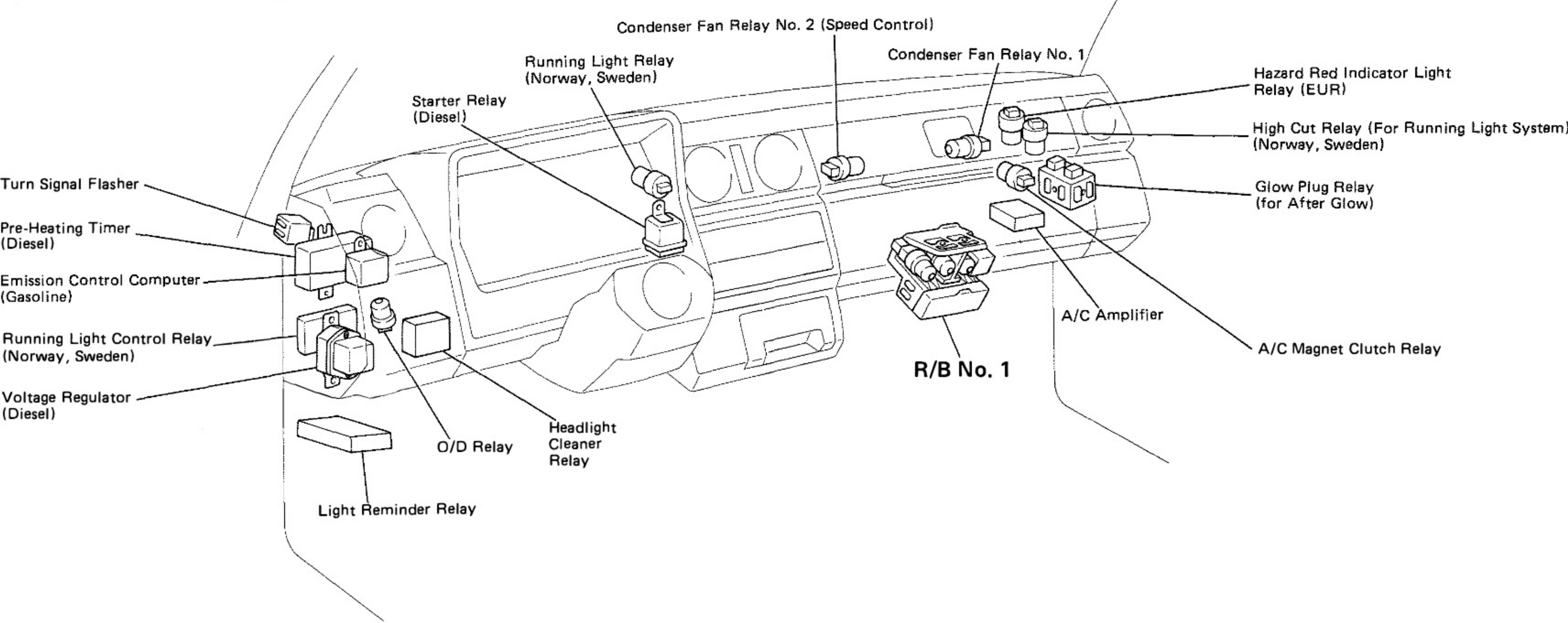




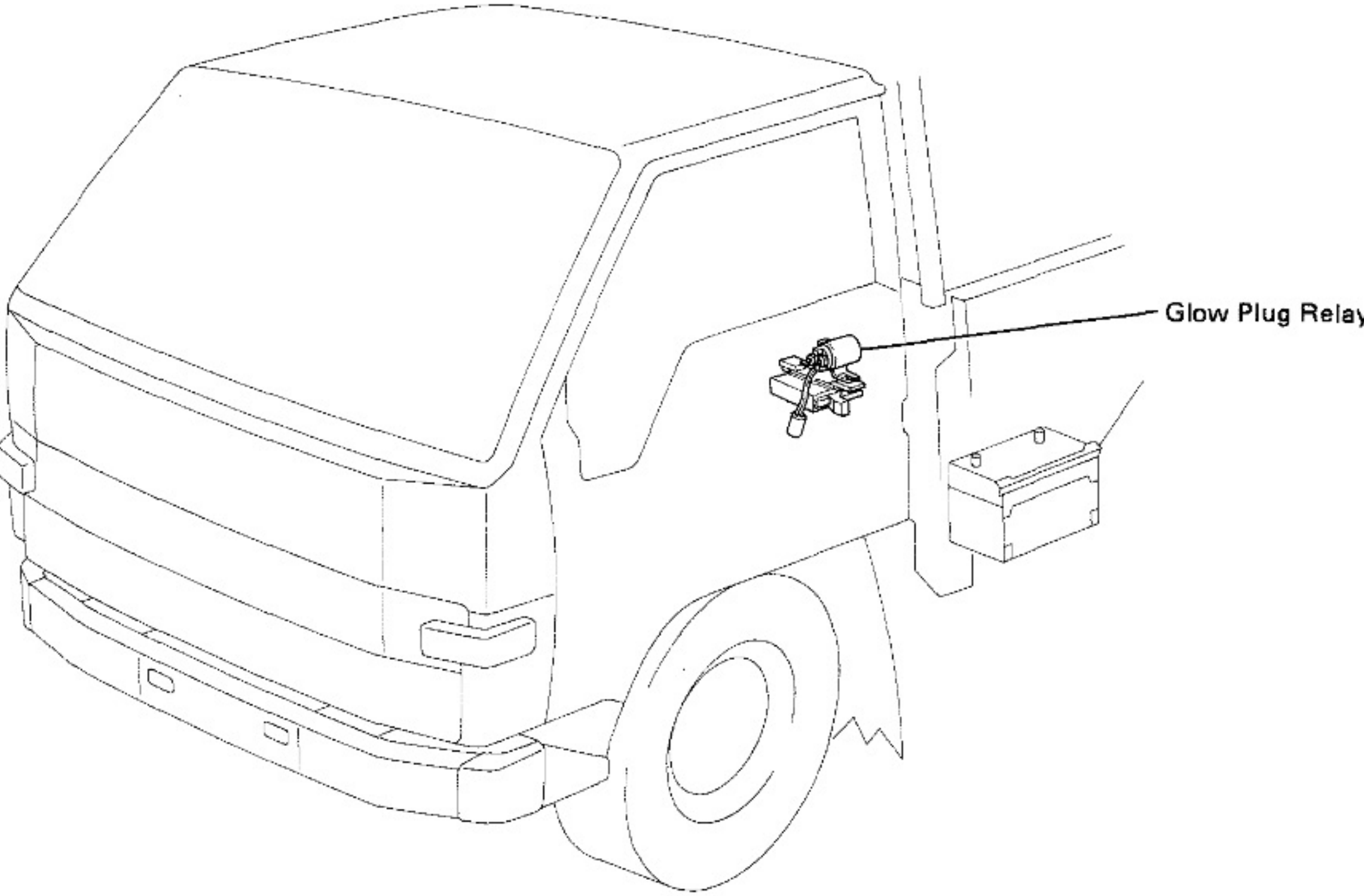




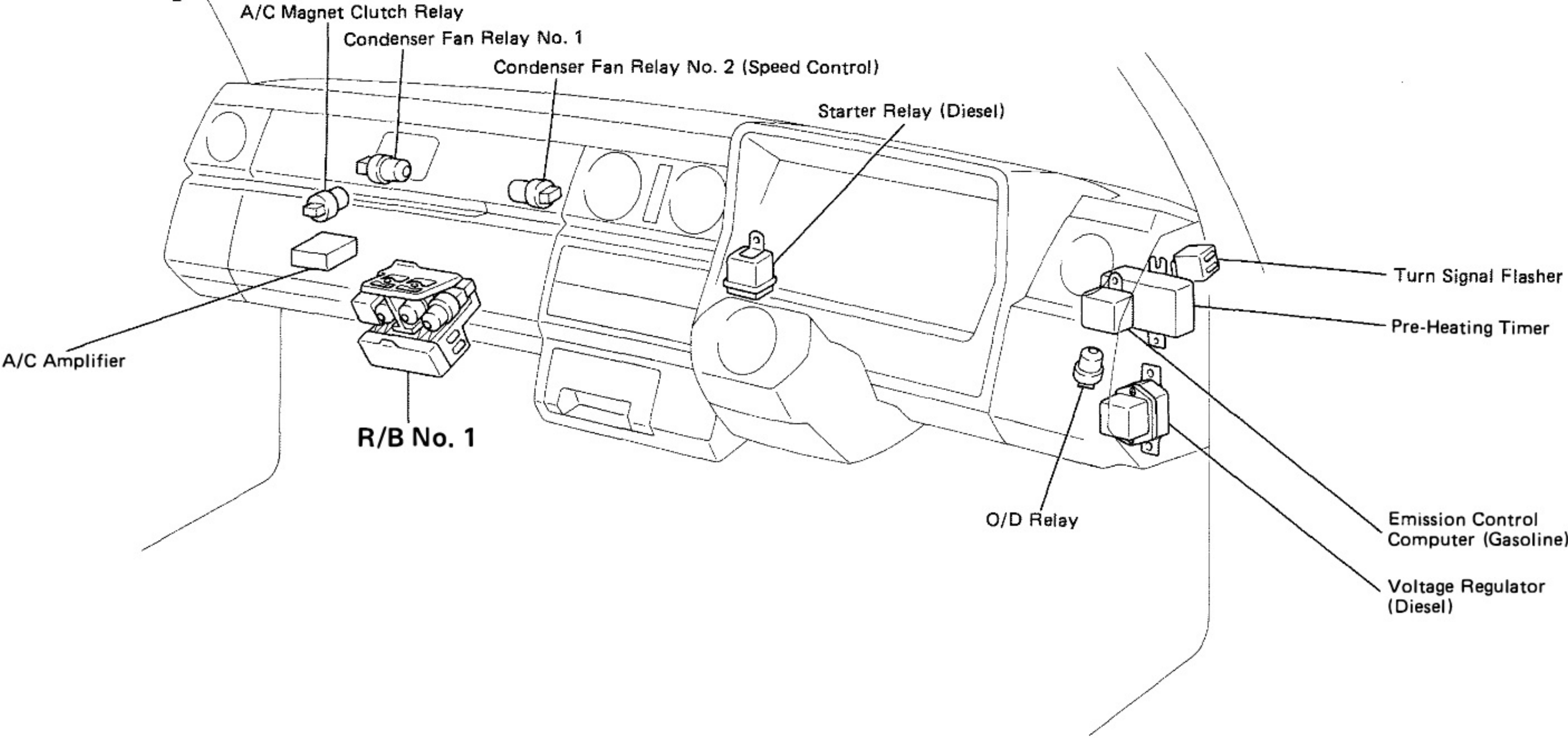
[Instrument Panel LHD]



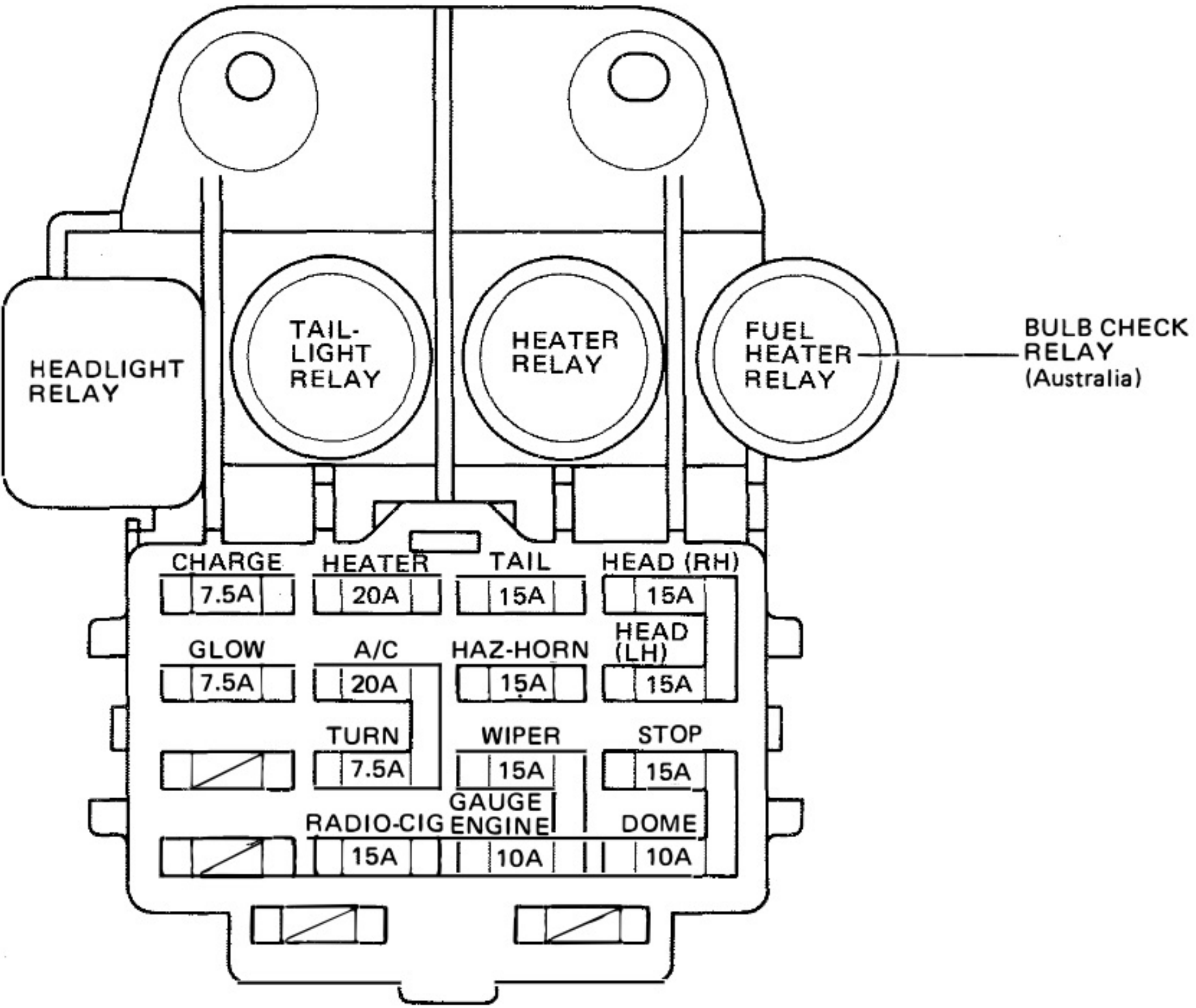
[Body]



[Instrument Panel RHD]



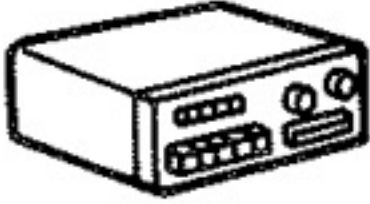
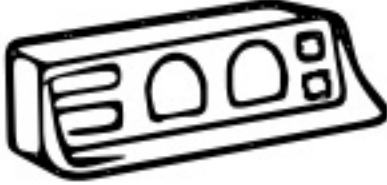
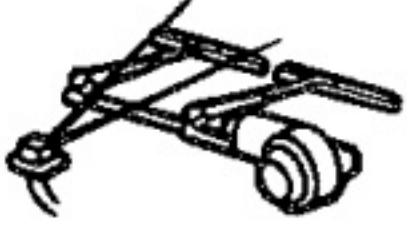
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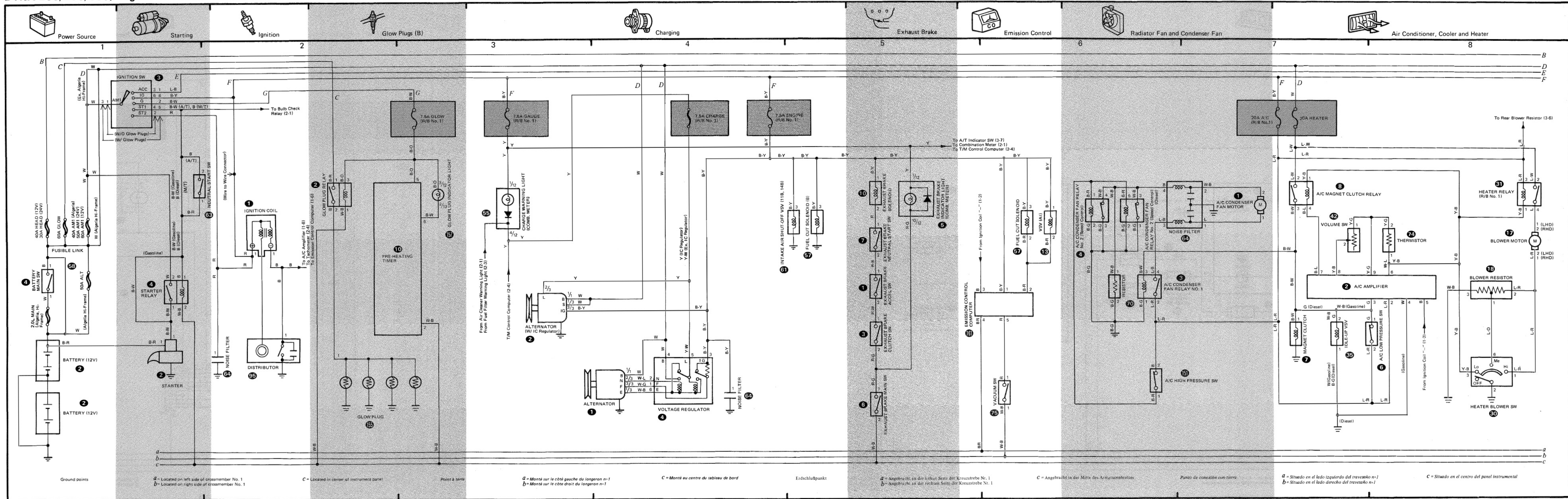


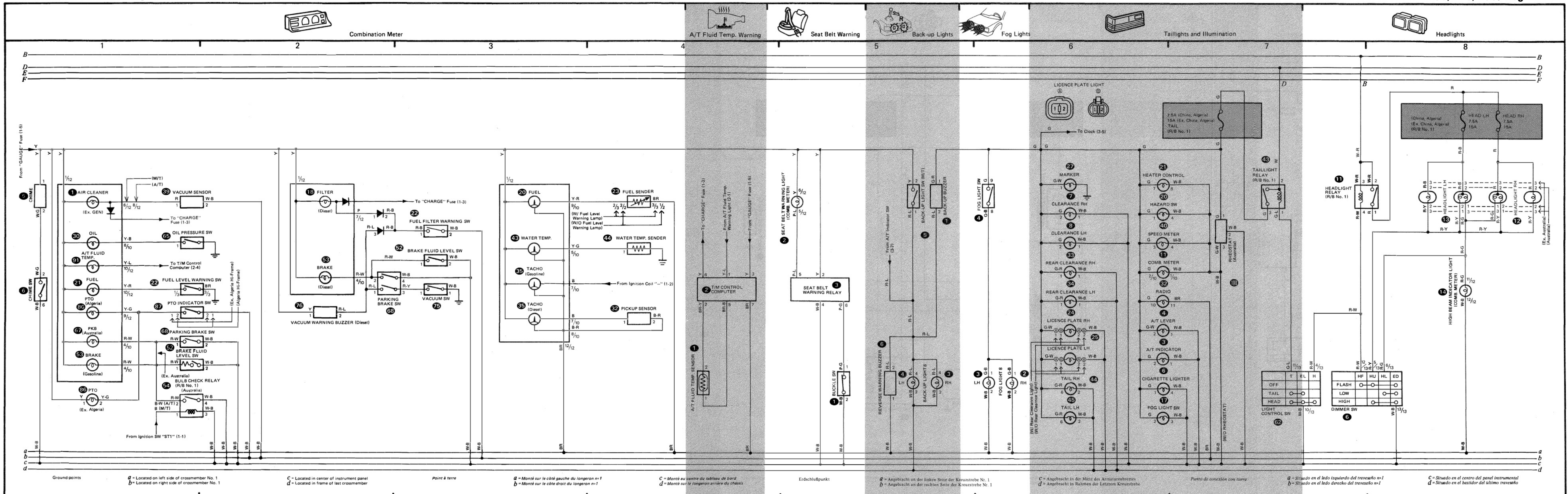
SYSTEM INDEX

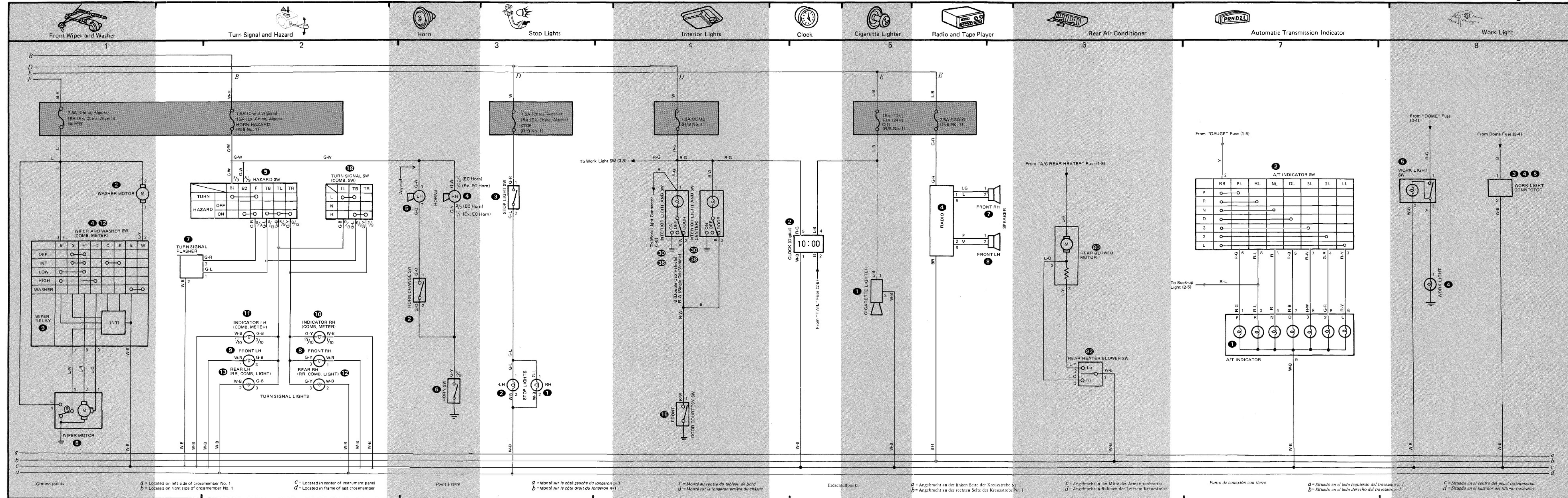
DYNA 200/250/300, Regular Cab

1989 Production Vehicles (Page 1 to Page 3)

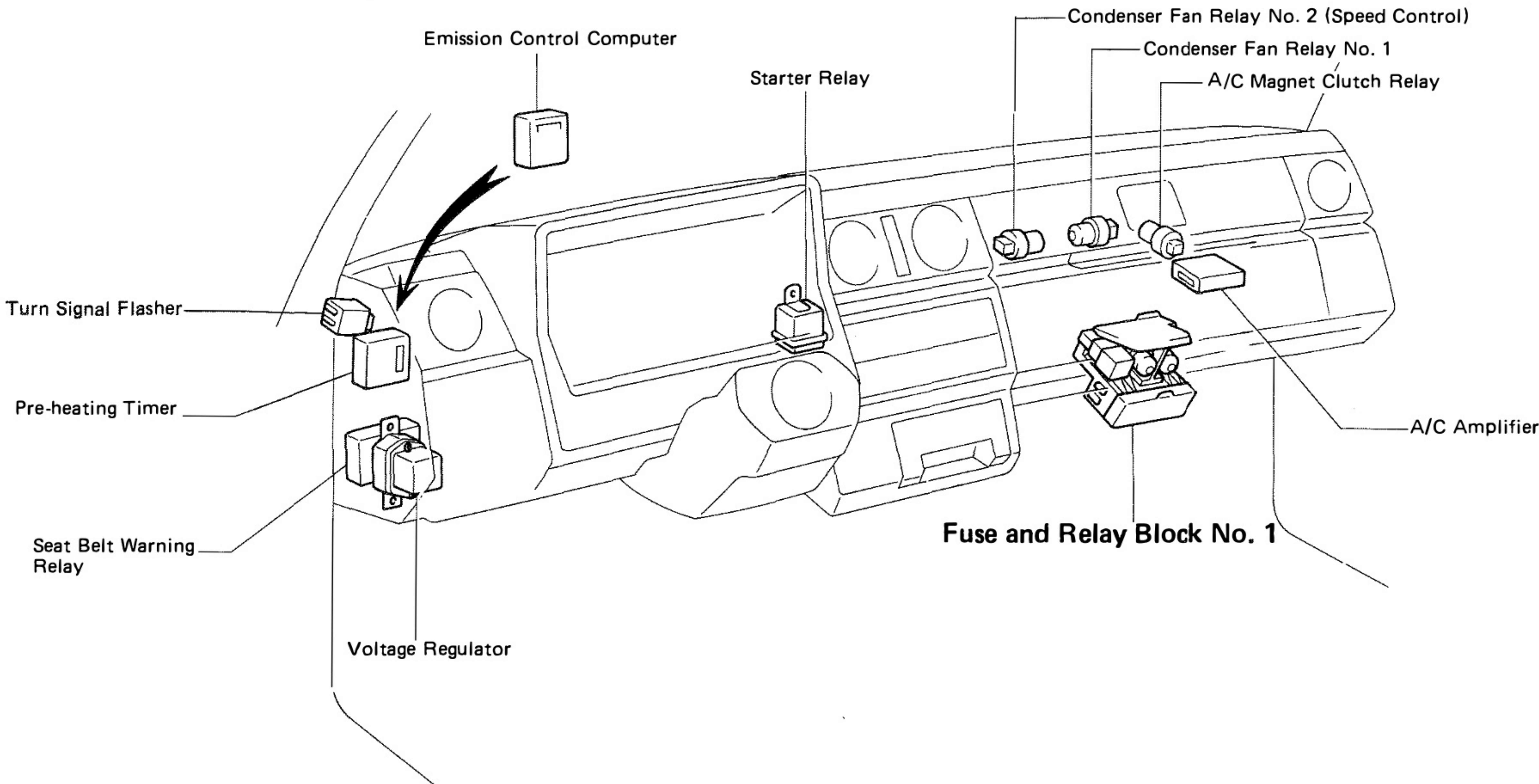
SYSTEMS	LOCATION	SYSTEMS	LOCATION
Air Conditioner, Cooler and Heater	 1-8	Radiator Fan and Condenser Fan	 1-6
A/T Fluid Temp. Warning	 2-4	Radio and Tape Player	 3-5
Automatic Transmission Indicator	 3-7	Rear Air Conditioner	 3-6
Back-Up Lights	 2-5	Seat Belt Warning	 2-5
Charging	 1-4	Starting	 1-1
Cigarette Lighter	 3-5	Stop Lights	 3-3
Clock	 3-5	Taillights and Illumination	 2-6
Combination Meter	 2-2	Turn Signal and Hazard	 3-2
Emission Control	 1-6	Work Light	 3-8
Exhaust Brake	 1-5		
Fog Lights	 2-6		
Front Wiper and Washer	 3-1		
Glow Plugs	 1-2 (B Engine)		
Headlights	 2-8		
Horn	 3-3		
Ignition	 1-2		
Interior Lights	 3-4		
Power Source	 1-1		



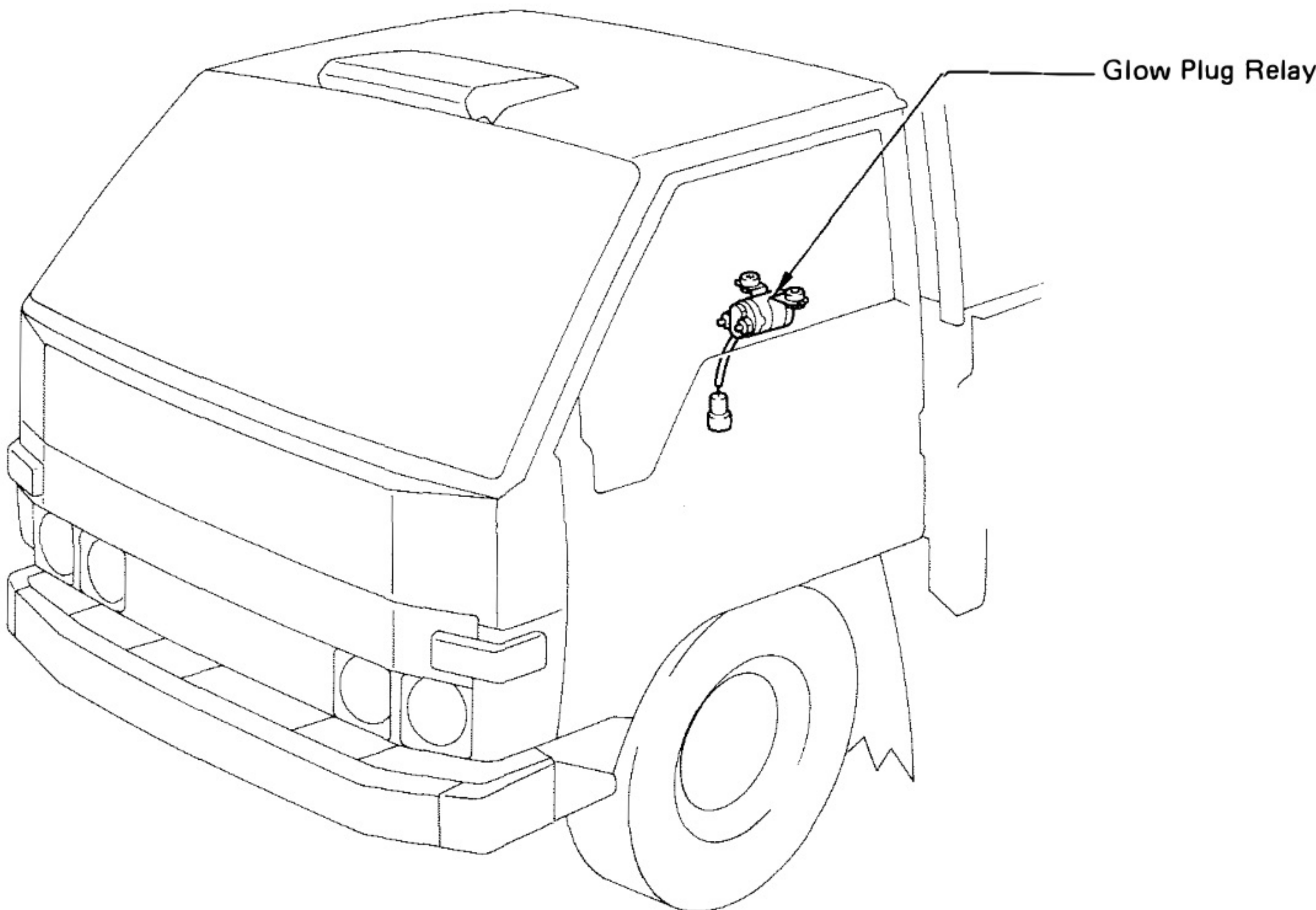




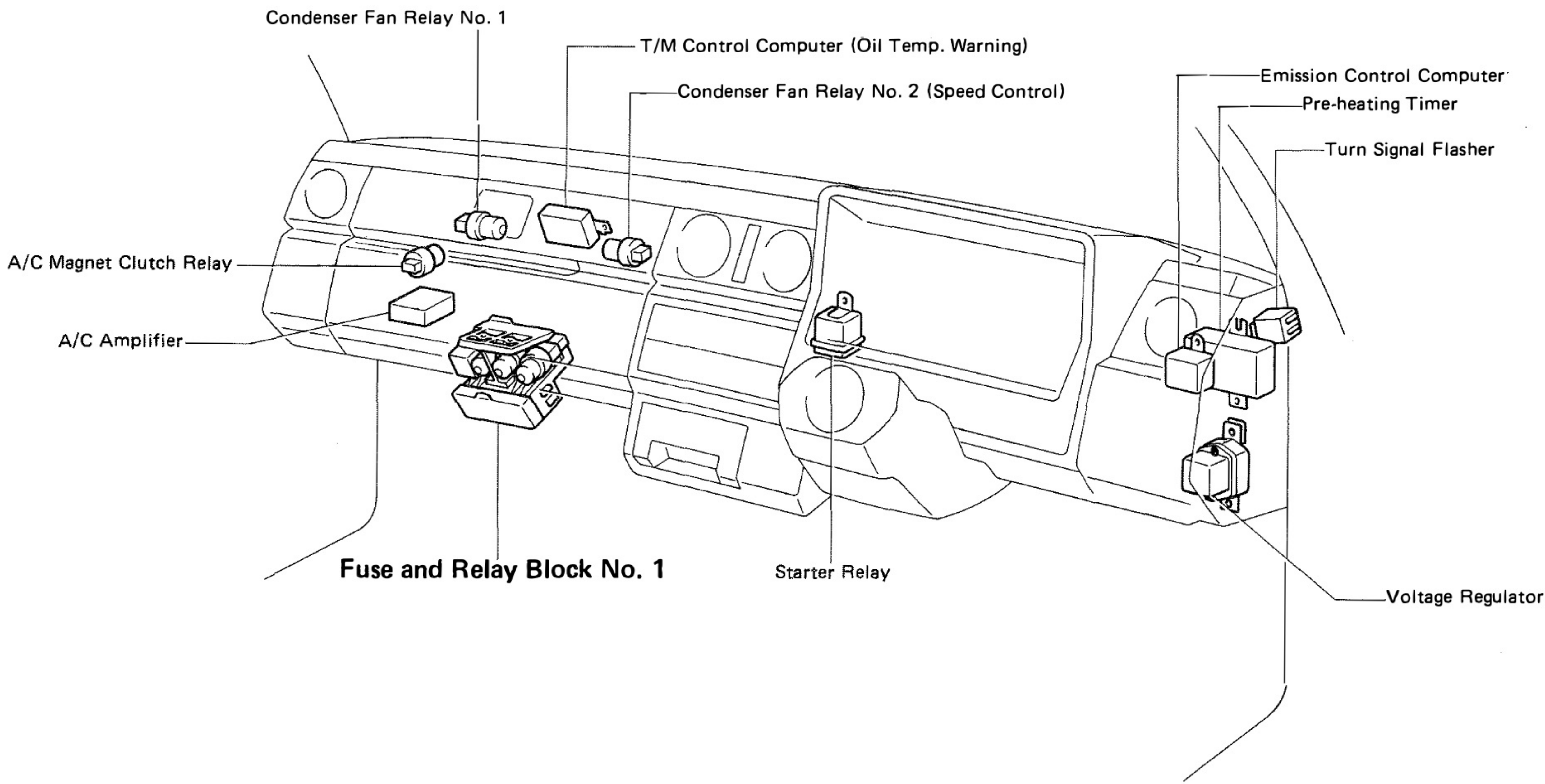
[Instrument Panel LHD]



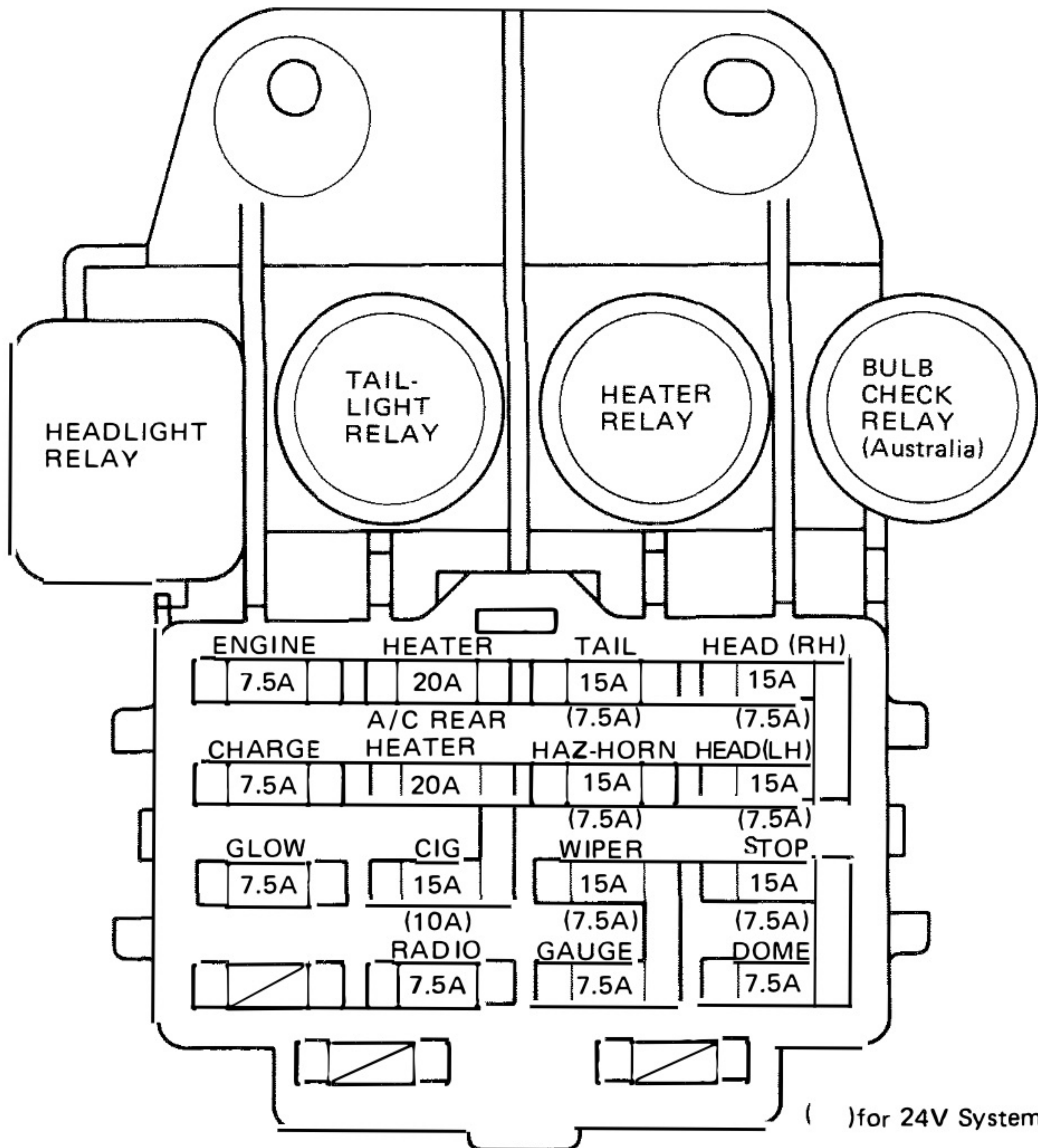
[Body]

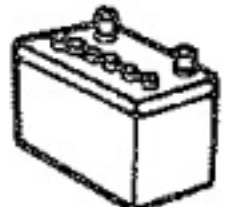
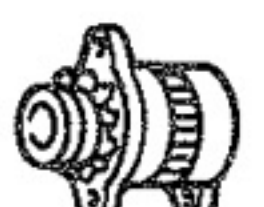
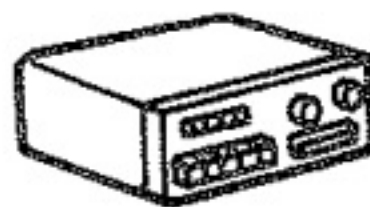
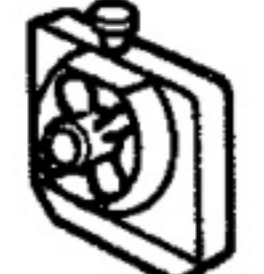
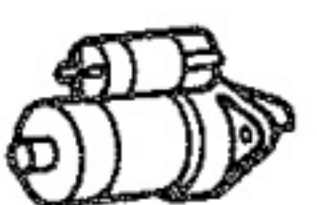
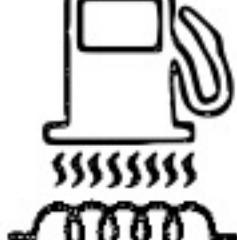
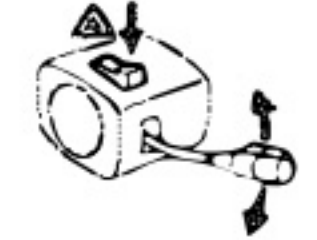


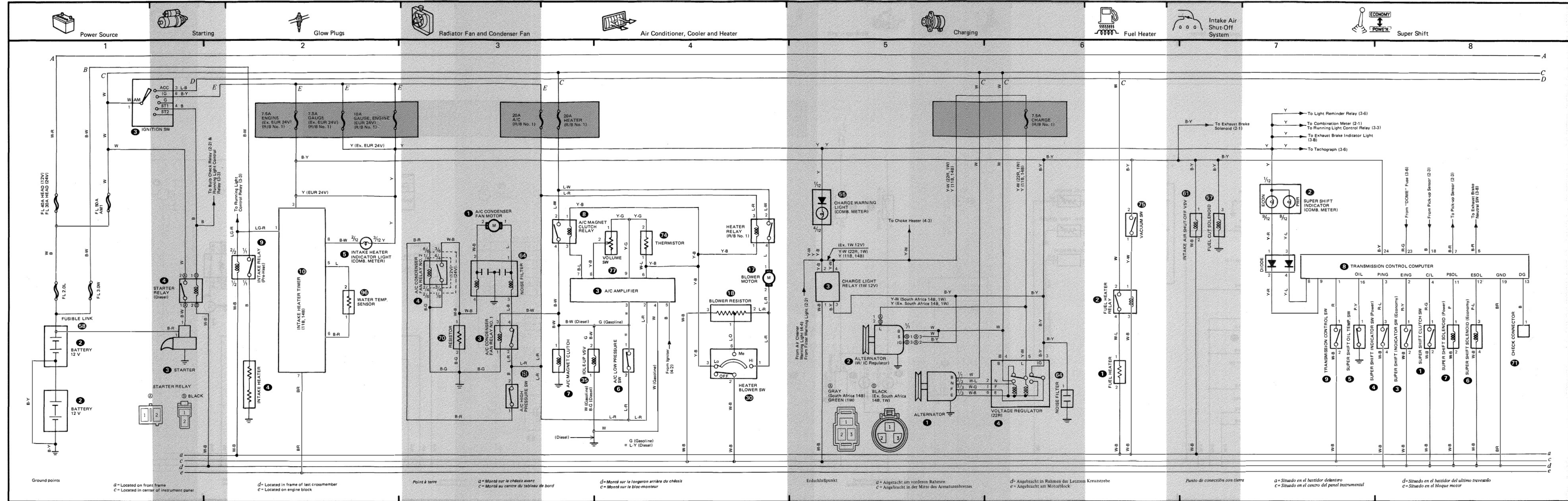
[Instrument Panel RHD]

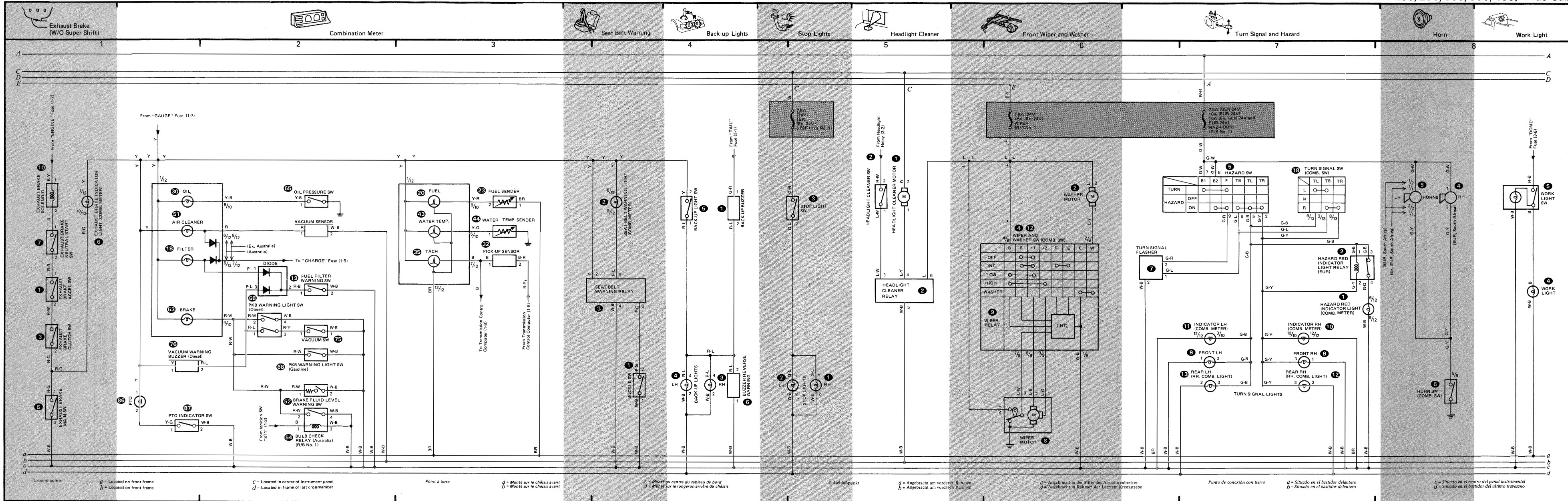


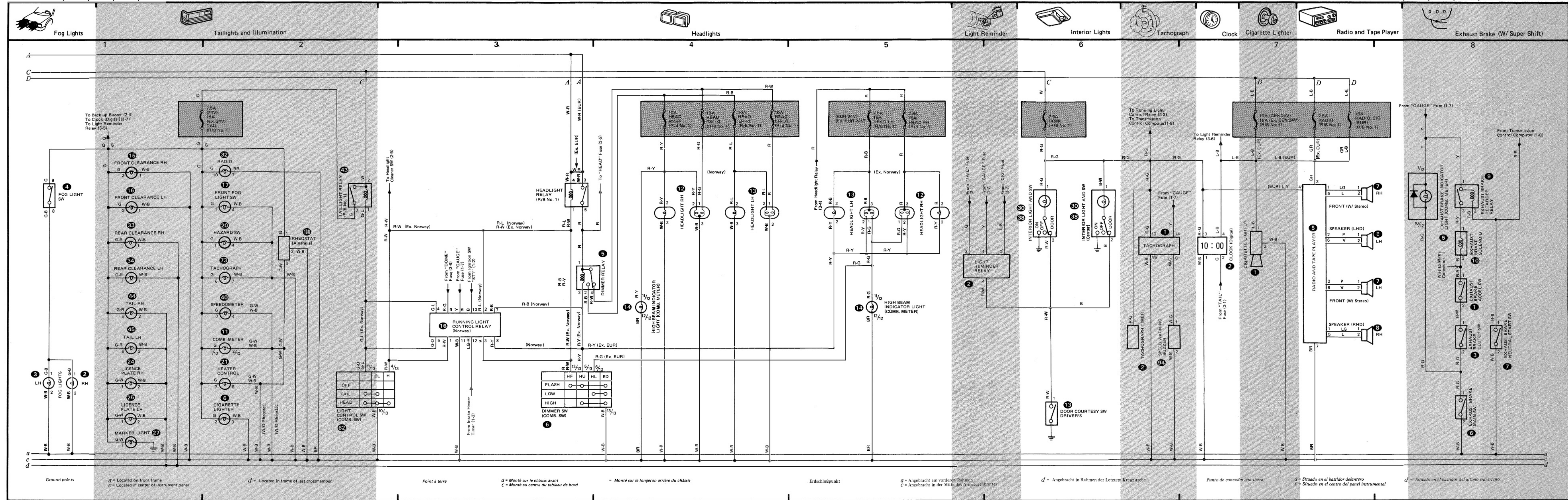
[Fuse and Relay Block No. 1]

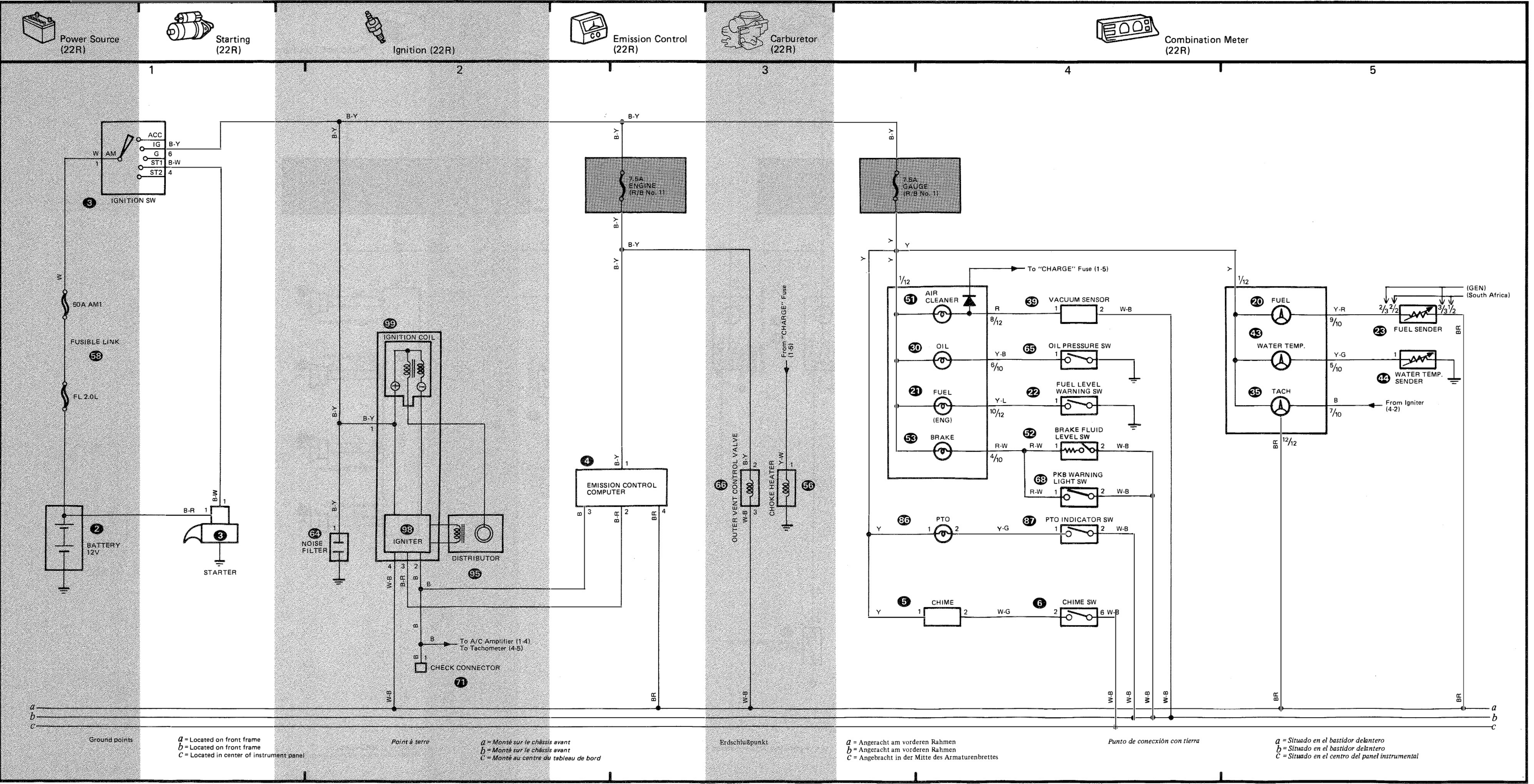


SYSTEMS	LOCATION	SYSTEMS	LOCATION
Air Conditioner, Cooler and Heater	 1-4	Interior Lights	 3-6
Back-up Lights	 2-4	Light Reminder	 3-5
Carburetor	 4-3 (22R)	Power Source	 1-1 4-1 (22R)
Charging	 1-5	Radio and Tape Player	 3-7
Cigarette Lighter	 3-7	Radiator Fan and Condenser Fan	 1-3
Clock	 3-7	Seat Belt Warning	 2-4
Combination Meter	 2-2 4-4 (22R)	Starting	 1-1 4-1 (22R)
Emission Control	 4-3 (22R)	Stop Lights	 2-5
Exhaust Brake	 2-1 (W/O Super Shift) 3-8 (W/ Super Shift)	Super Shift	 1-8
Fog Lights	 3-1	Tachograph	 3-6
Front Wiper and Washer	 2-6	Taillights and Illumination	 3-1
Fuel Heater	 1-6	Turn Signal and Hazard	 2-7
Glow Plugs	 1-2	Work Light	 2-8
Headlight Cleaner	 2-5		
Headlights	 3-4		
Horn	 2-8		
Ignition	 4-2 (22R)		
Intake Air Shut-Off System	 1-7		

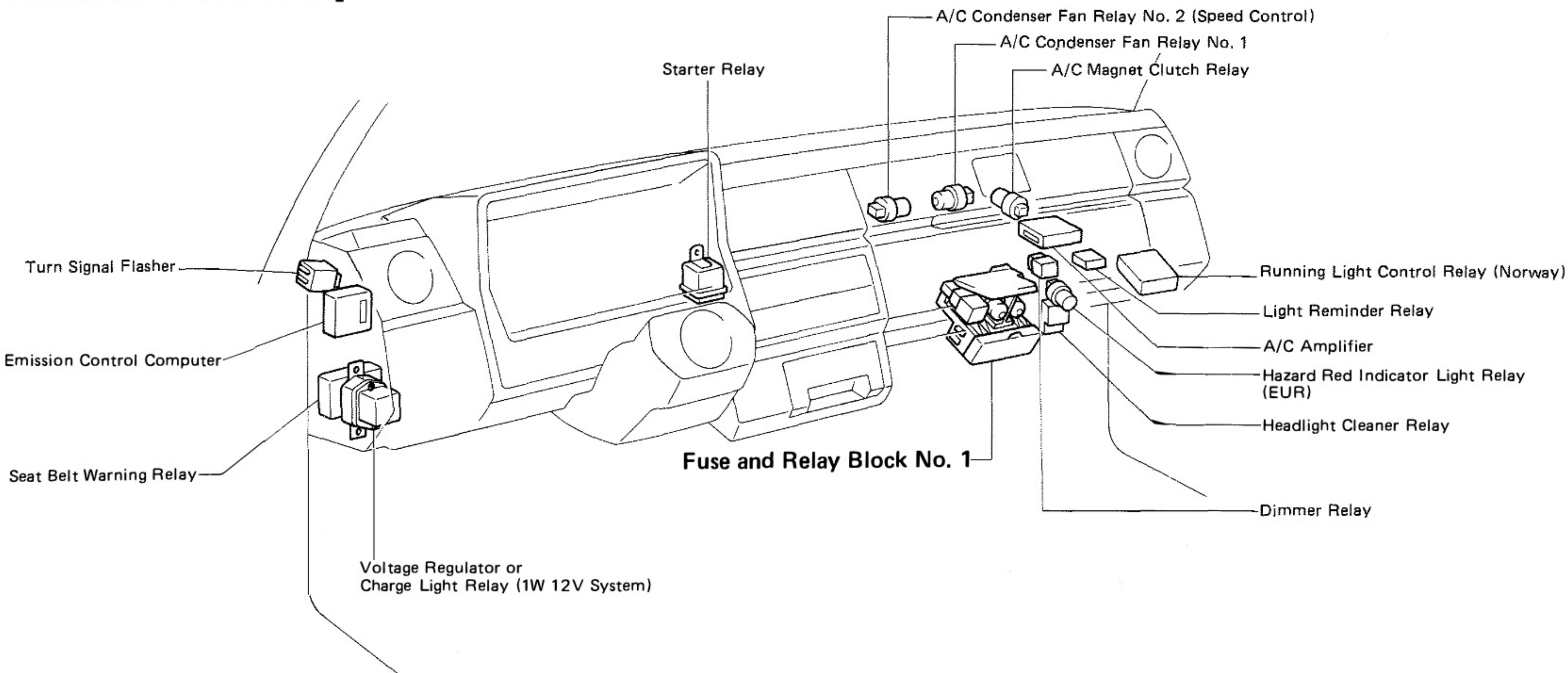




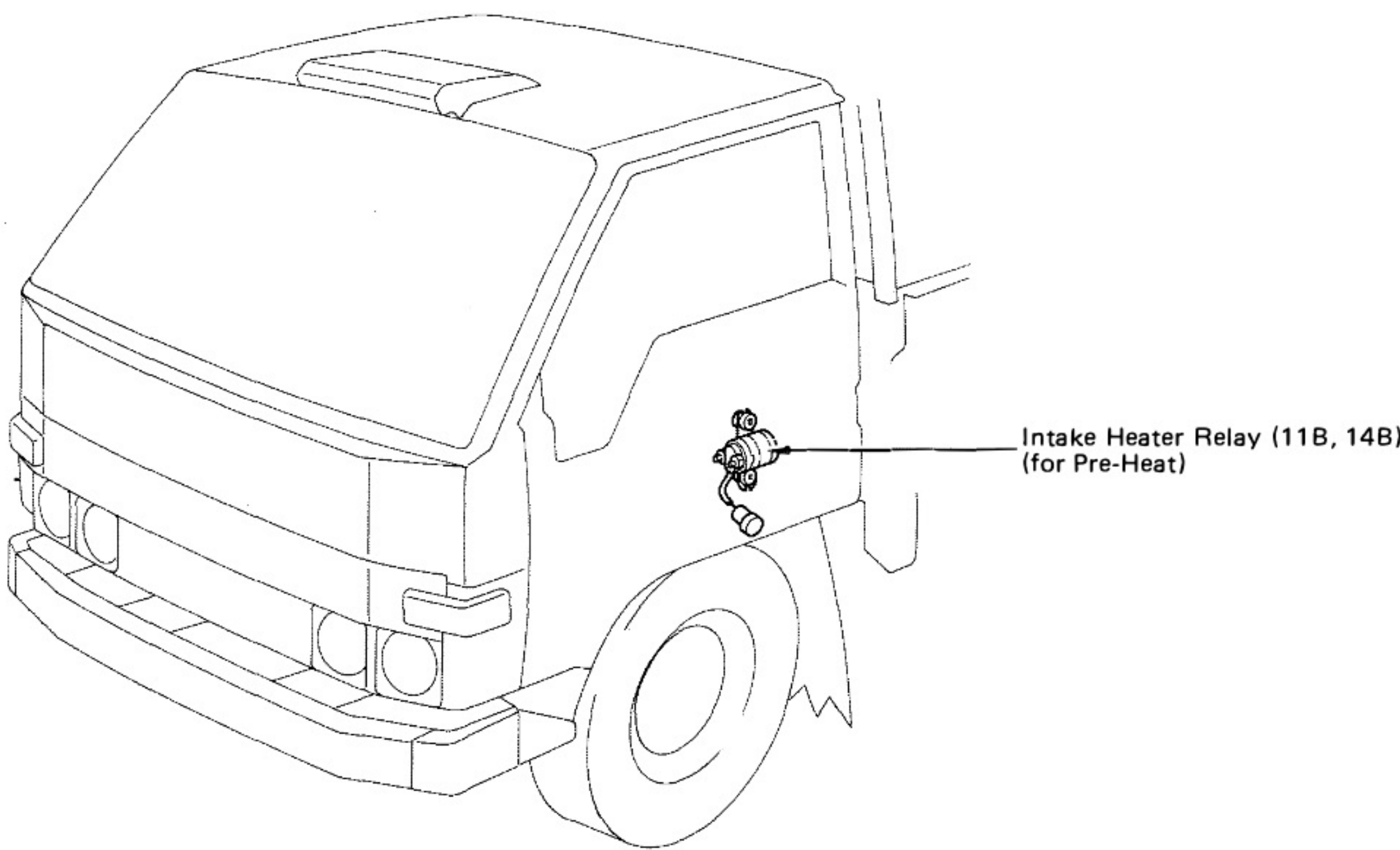




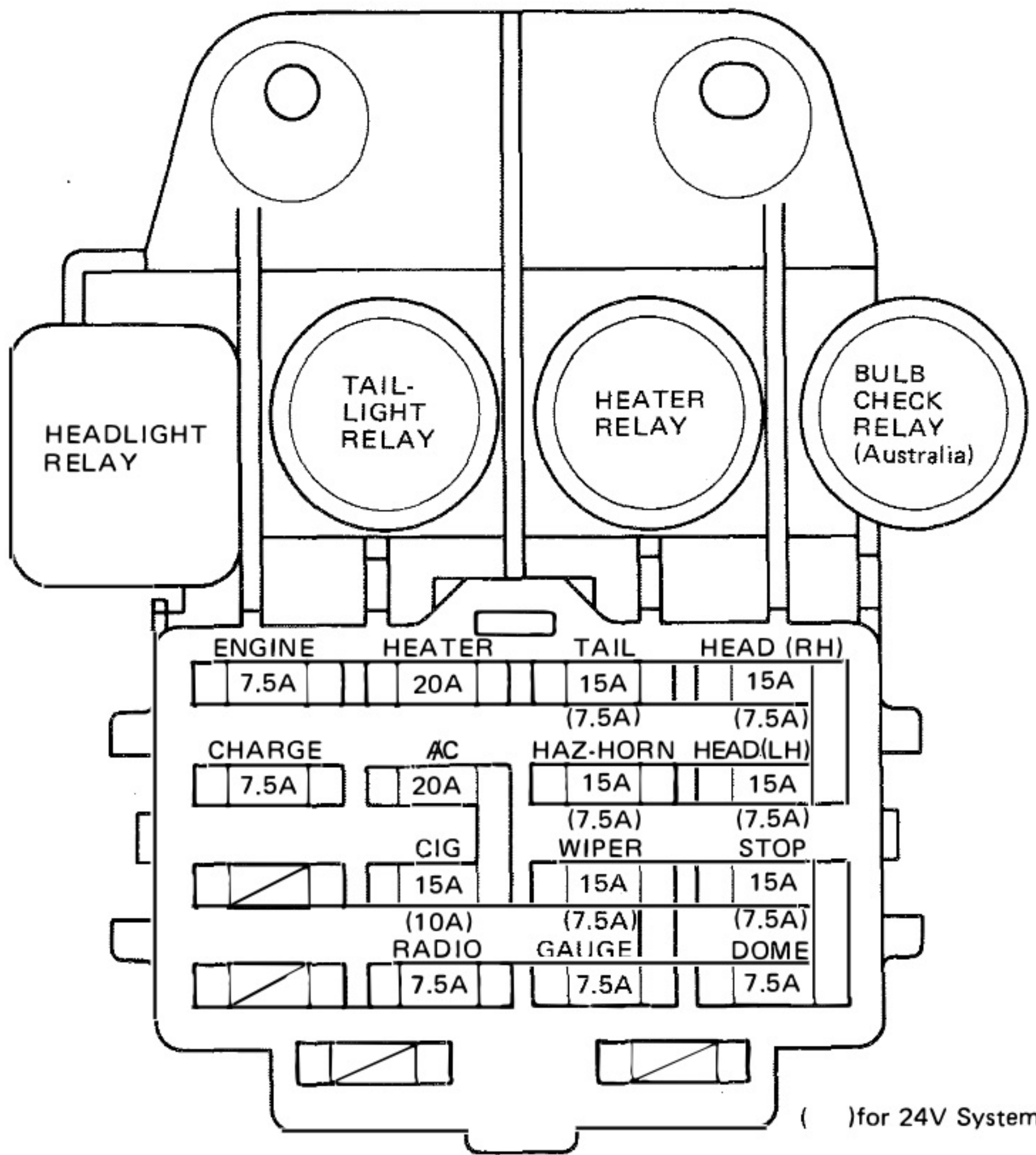
[Instrument Panel LHD]



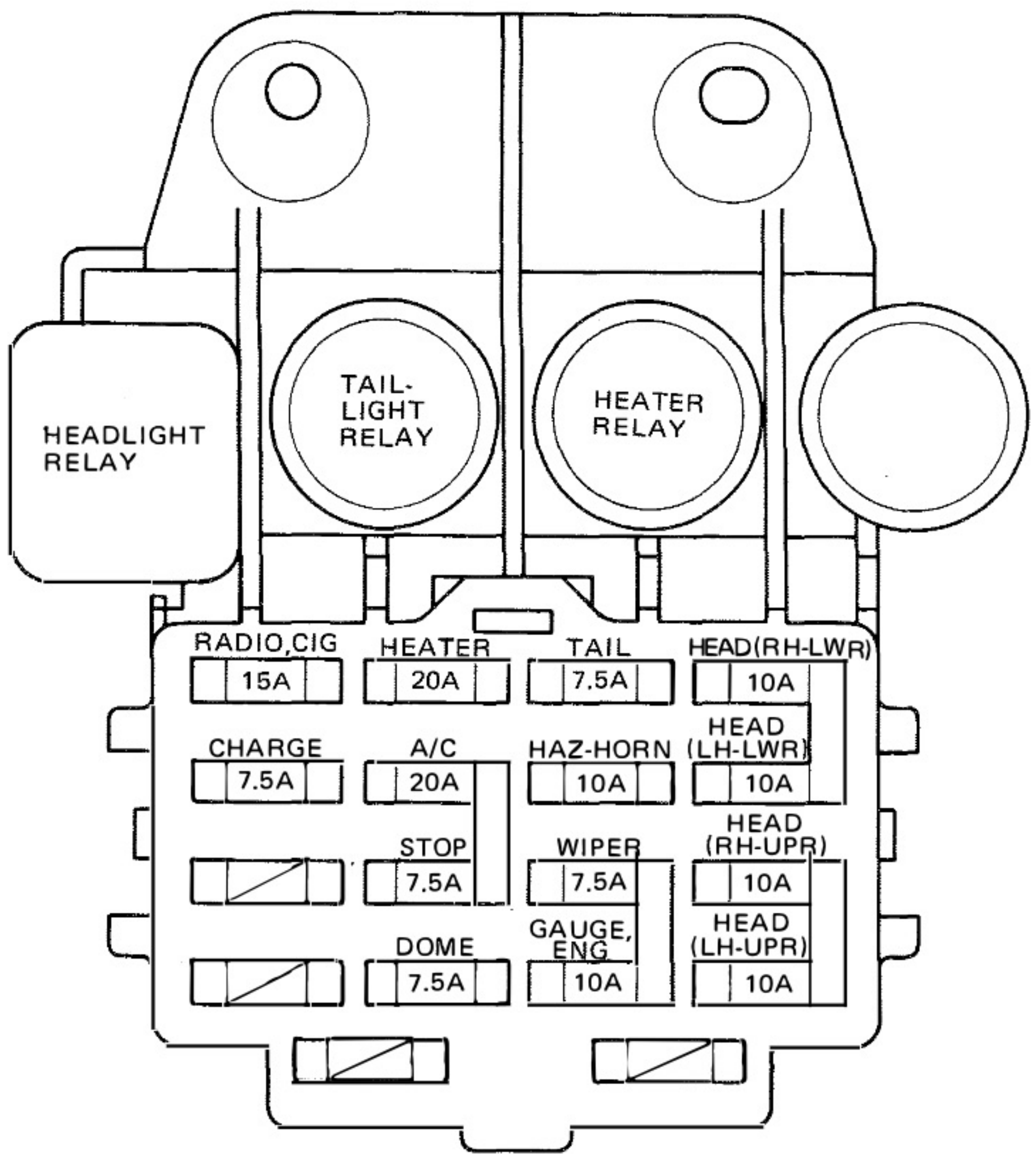
[Body]



Fuse and Relay Block No. 1
Ex. EUR (24V System)



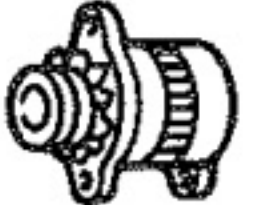
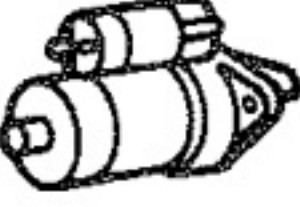
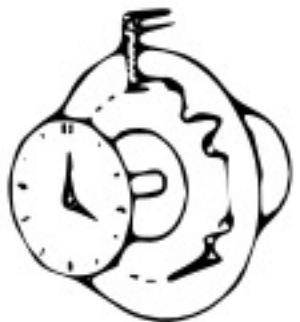
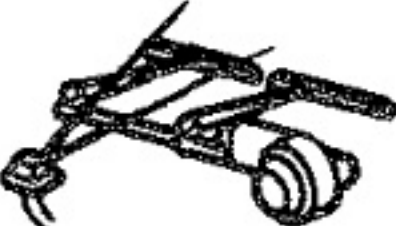
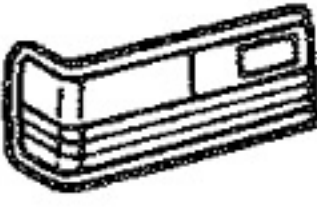
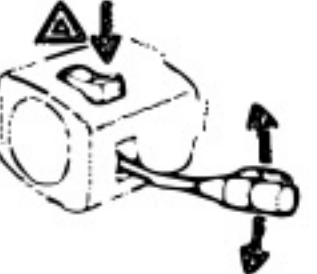
Fuse and Relay Block No. 1
EUR (24V System)



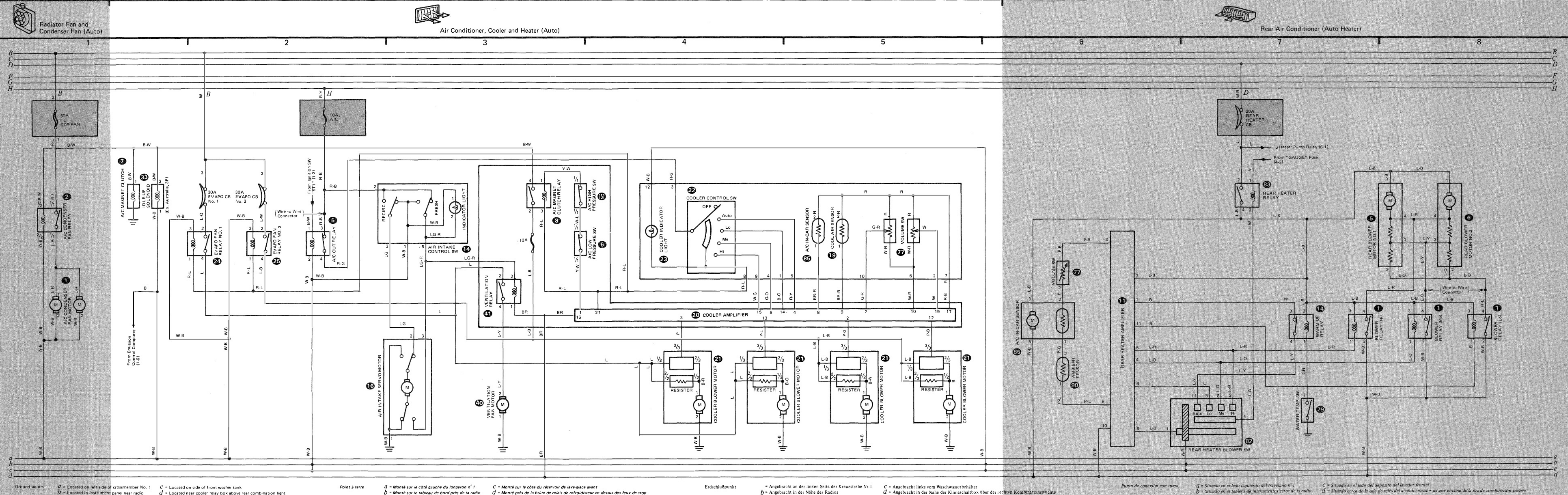
SYSTEM INDEX

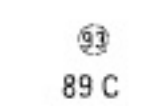
COASTER

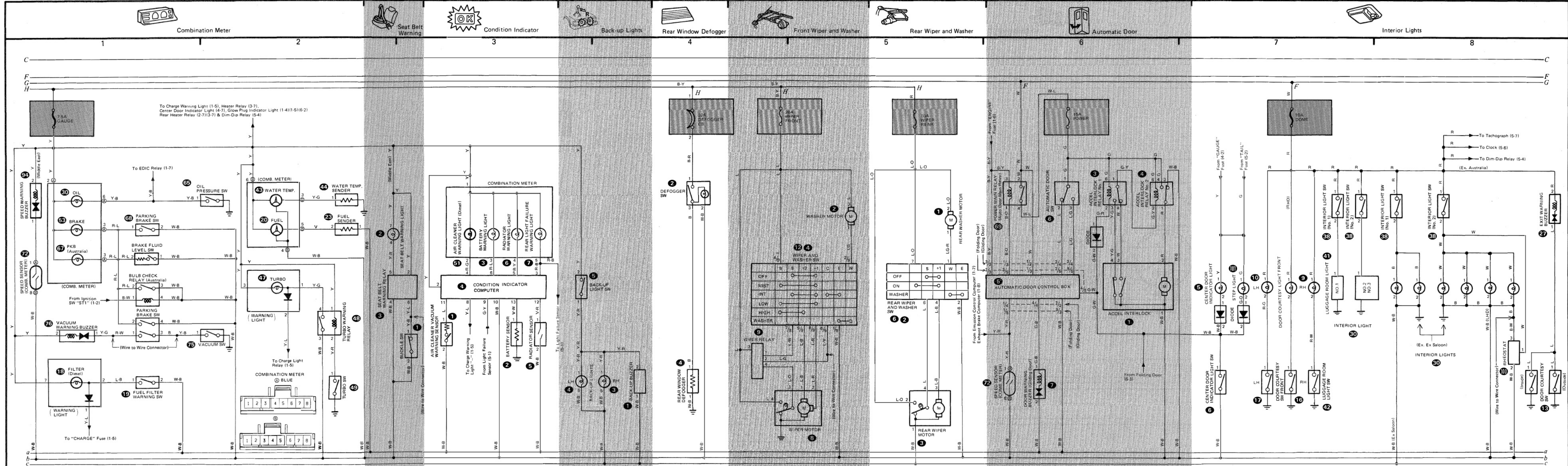
1989 Production Vehicles (Page 1 to Page 6)

SYSTEMS	LOCATION	SYSTEMS	LOCATION
Air Conditioner, Cooler and Heater	 2-3 (Auto) 3-4 (Manual)	Ignition	 1-2
Automatic Door	 4-6 6-3 (Folding)	Intake Air Shut-Off System	 1-8
Back-up Lights	 4-4	Interior Lights	 4-8
Carburetor	 1-5	Power Source	 1-1
Charging	 1-5	Radiator Fan and Condenser Fan	 2-1 (Auto) 3-1 (Manual)
Cigarette Lighter	 5-6	Radio and Tape Player	 5-7
Clock	 5-6	Rear Air Conditioner	 2-7 (Auto Heater) 3-6
Combination Meter	 4-1	Rear Window Defogger	 4-4
Condition Indicator	 4-3	Rear Wiper and Washer	 4-5
EDIC	 1-7	Seat Belt Warning	 4-2
Emission Control	 1-6	Starting	 1-1
Exhaust Brake	 1-8	Stop Lights	 5-1
Fuel Heater	 6-2	Tachograph	 5-7
Front Wiper and Washer	 4-5	Taillights and Illumination	 5-2
Glow Plugs	 1-4 (2H, 3B) 5-8 (12H-T, 14B)	Turn Signal and Hazard	 3-7
Headlights	 5-3 (Ex. Portugal 12H-T) 5-5 (Portugal 12H-T)		
Heater Water Pump	 6-1		
Horn	 3-8		

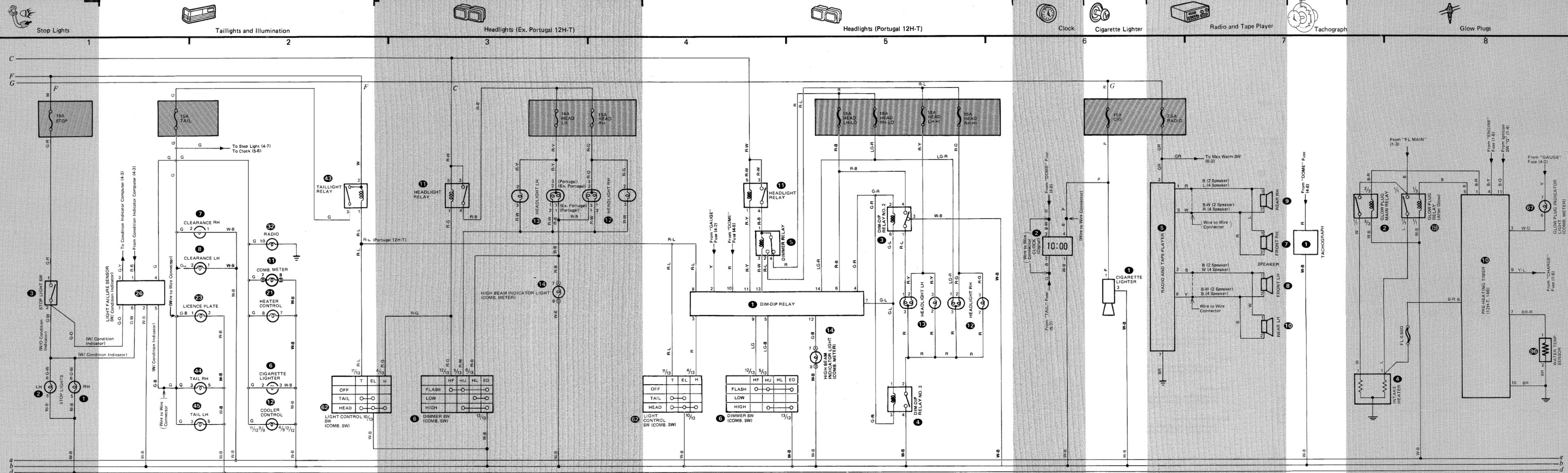
C = Situado en el lado del depósito del lavador frontal







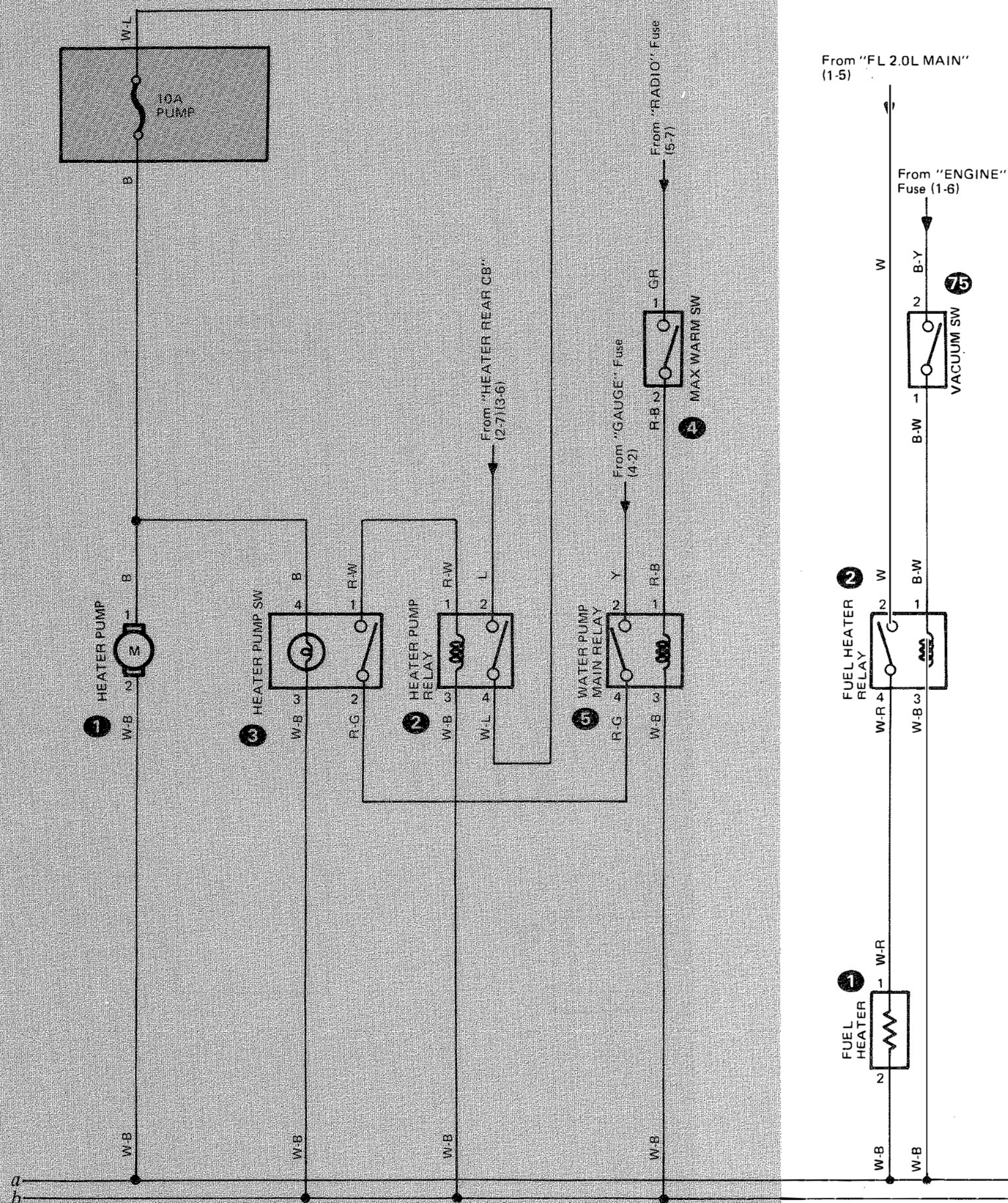
a = Monté sur le côté gauche du longeron n° 1
b = Monté sur le tableau de bord près de la radio
c = Monté près de la boîte de relais de refroidisseur en dessus des feux de stop
d = Angebracht an der linken Seite der Kreuzstrebe Nr. 1
e = Angebracht in der Nähe der Radios
f = Angebracht in der Nähe der Klimakontrollbox, über der rechten Kombinationsleuchte
g = Situado en el lado izquierdo del travesaño n° 1
h = Situado en el tablero de instrumentos cerca de la radio
i = Situado cerca de la caja de relés del acondicionador de aire encima de la luz de combinación trasera



1

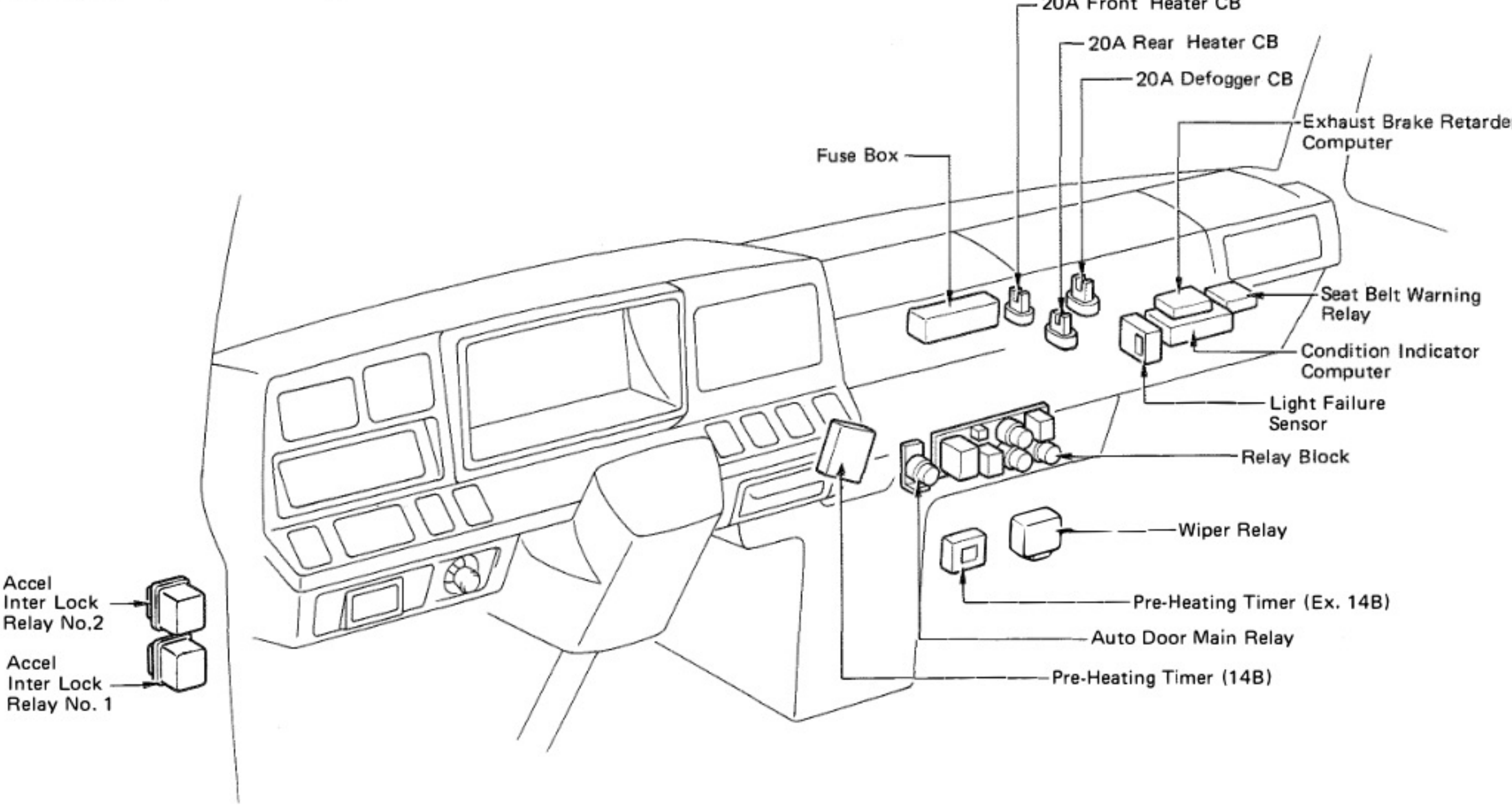


2

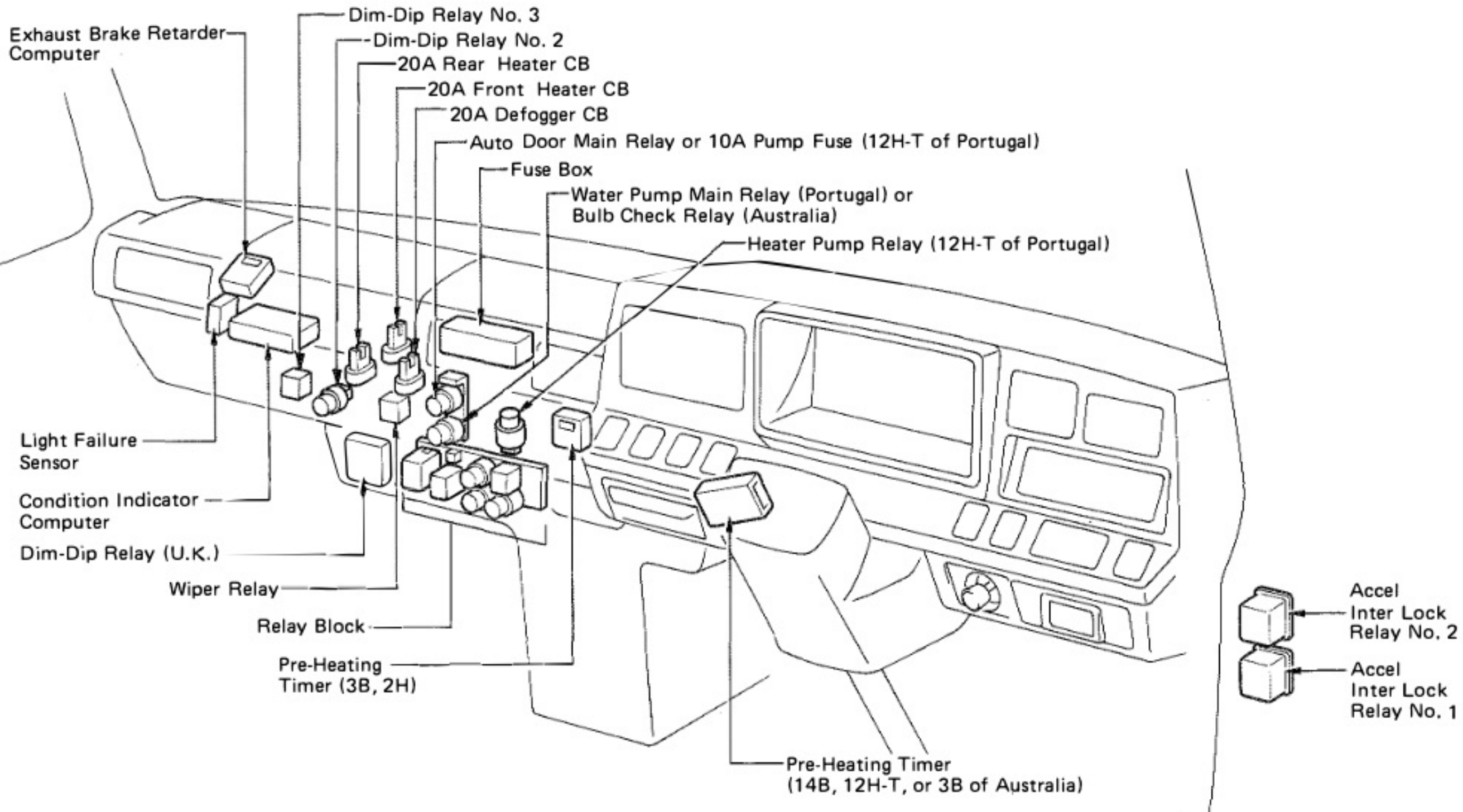


a = Situado en el lado izquierdo del travesño n° 1
b = Situado en el tablero de instrumentos cerca de la radio

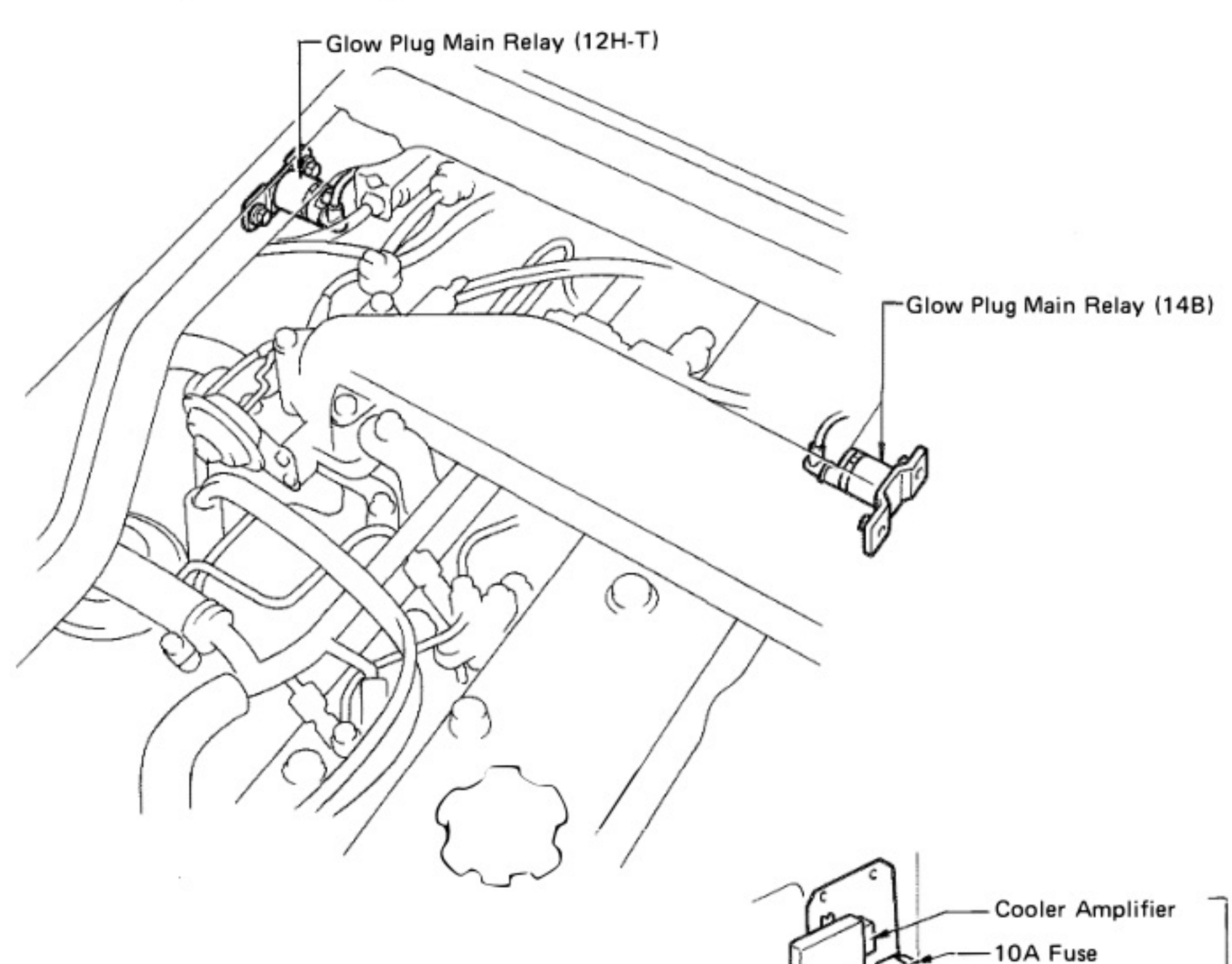
[Instrument Panel LHD]



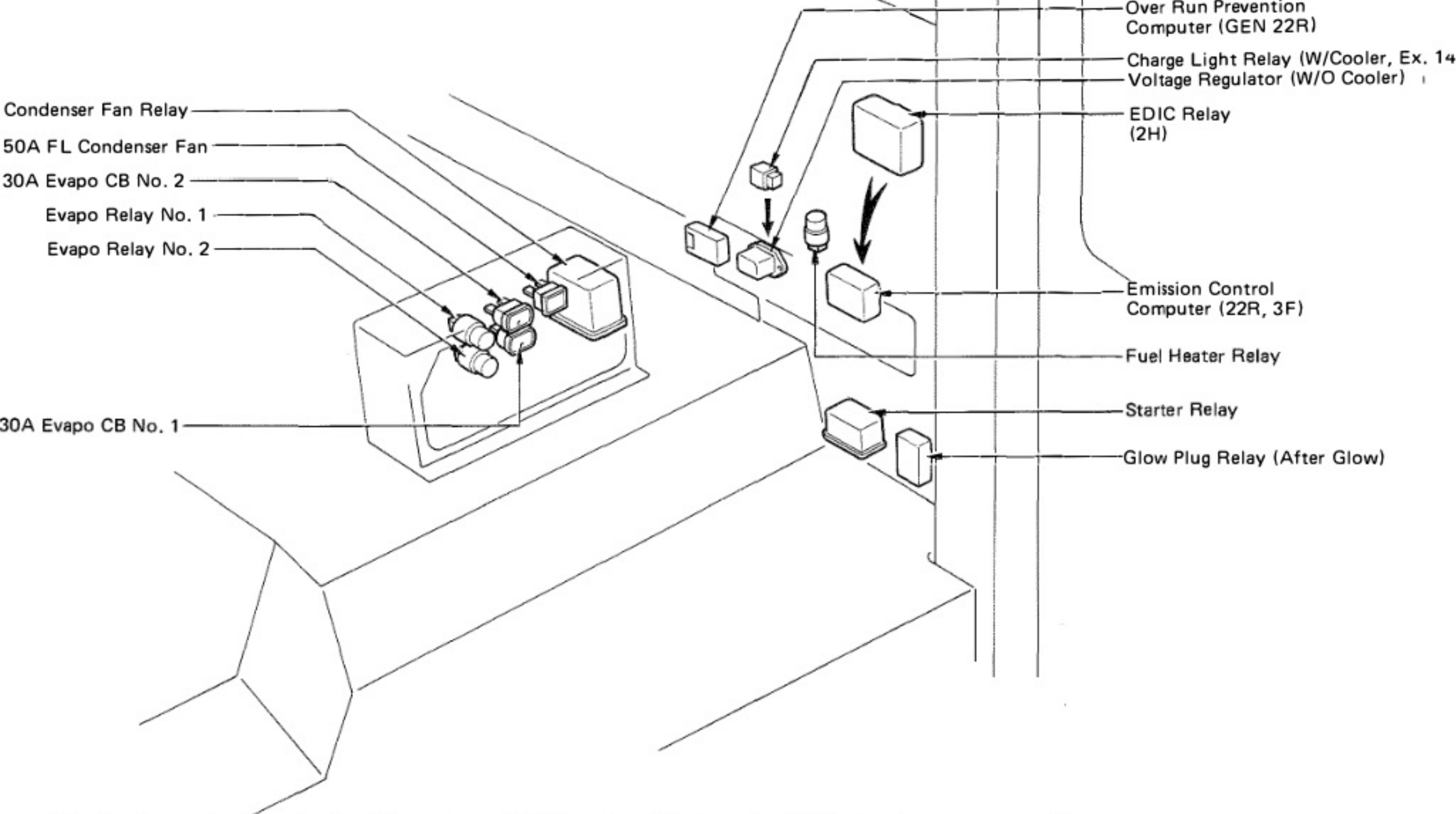
[Instrument Panel RHD]



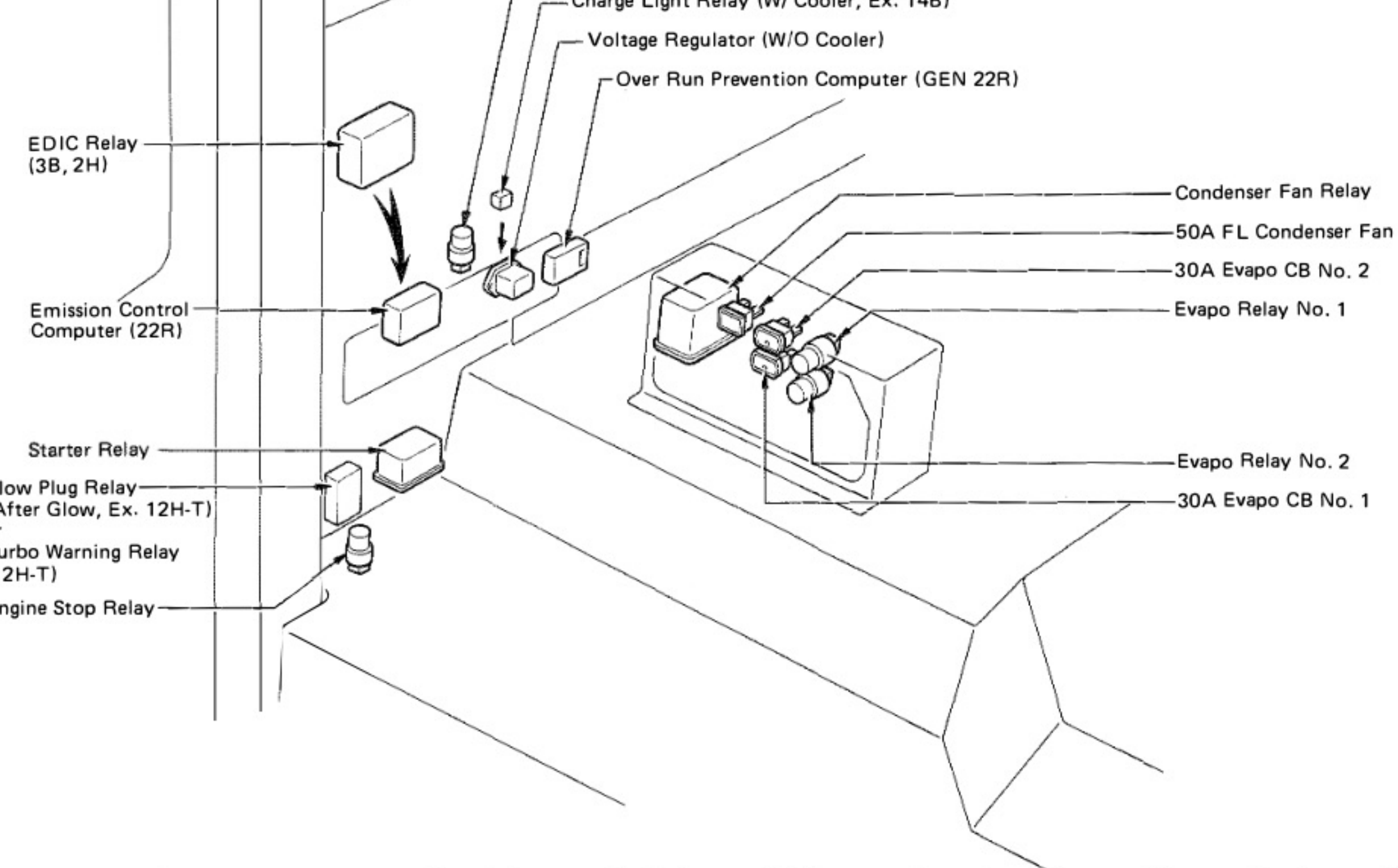
[Engine Compartment]



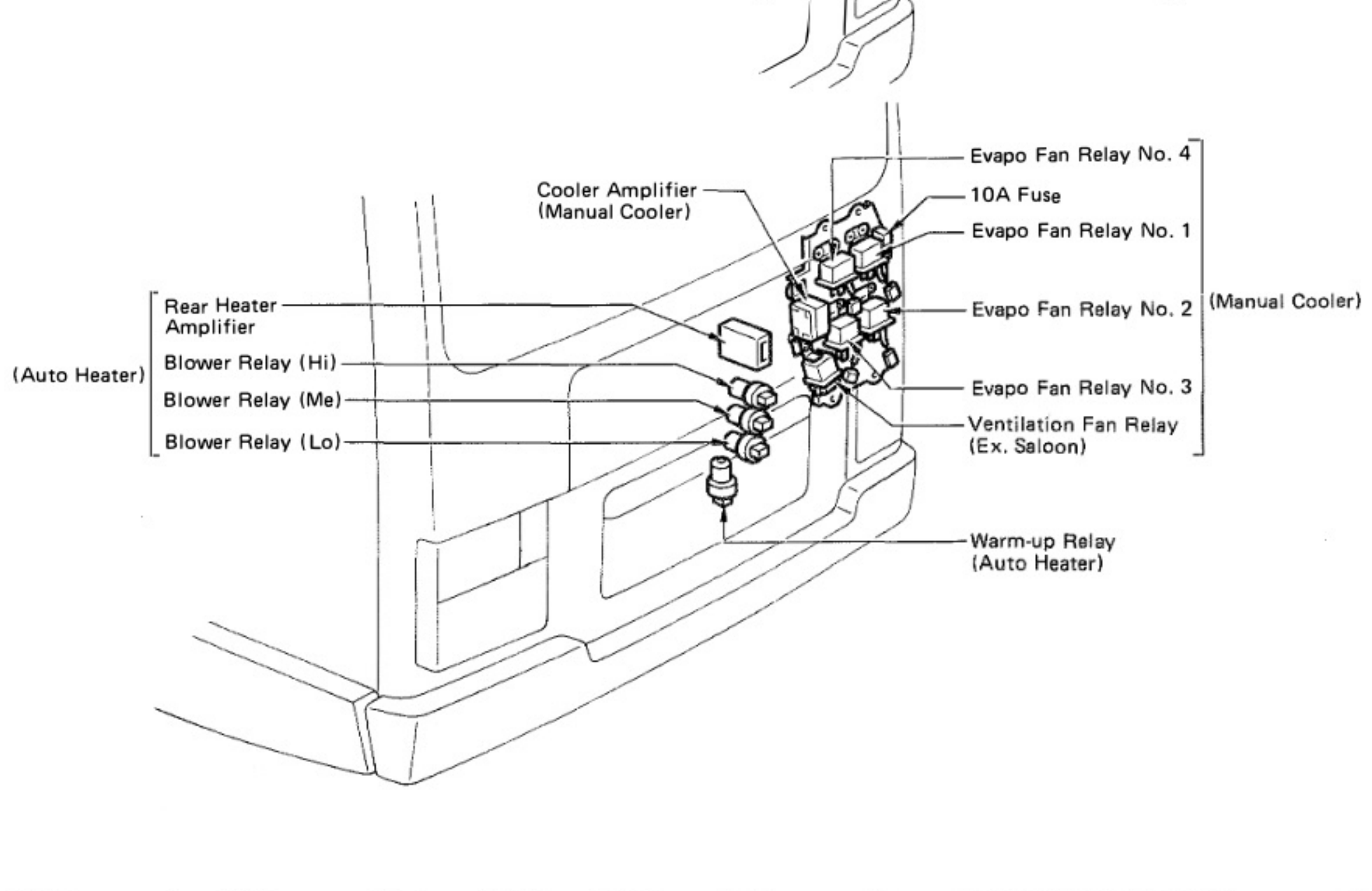
[Front Door LHD]



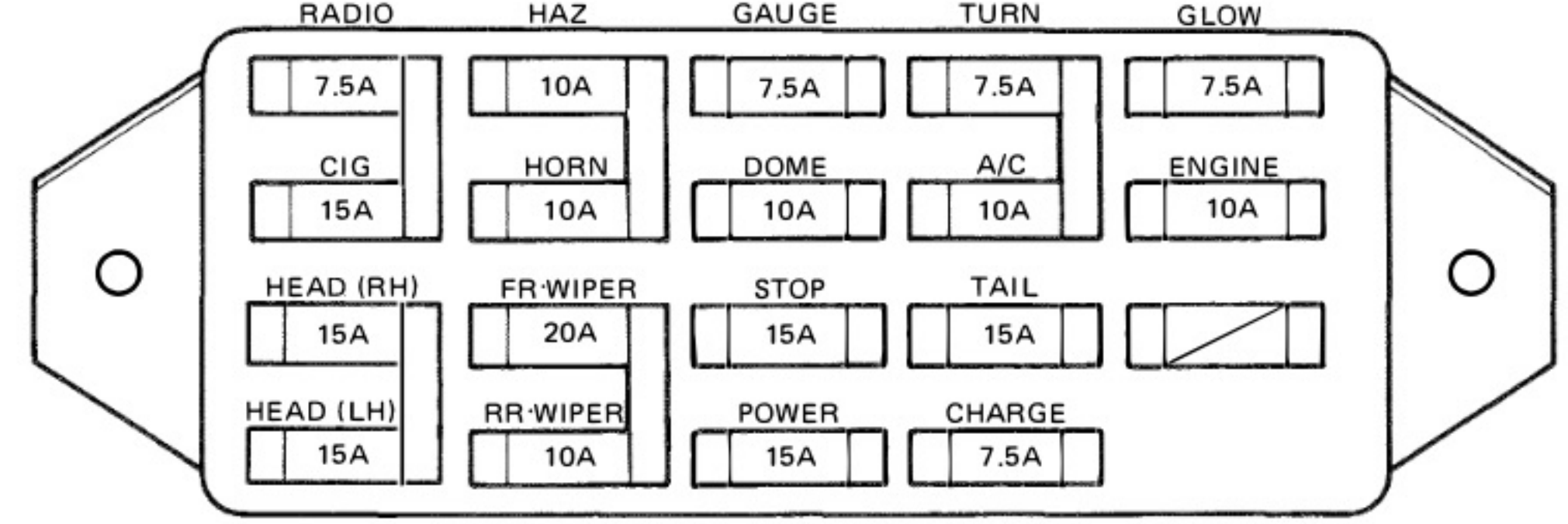
[Front Door RHD]



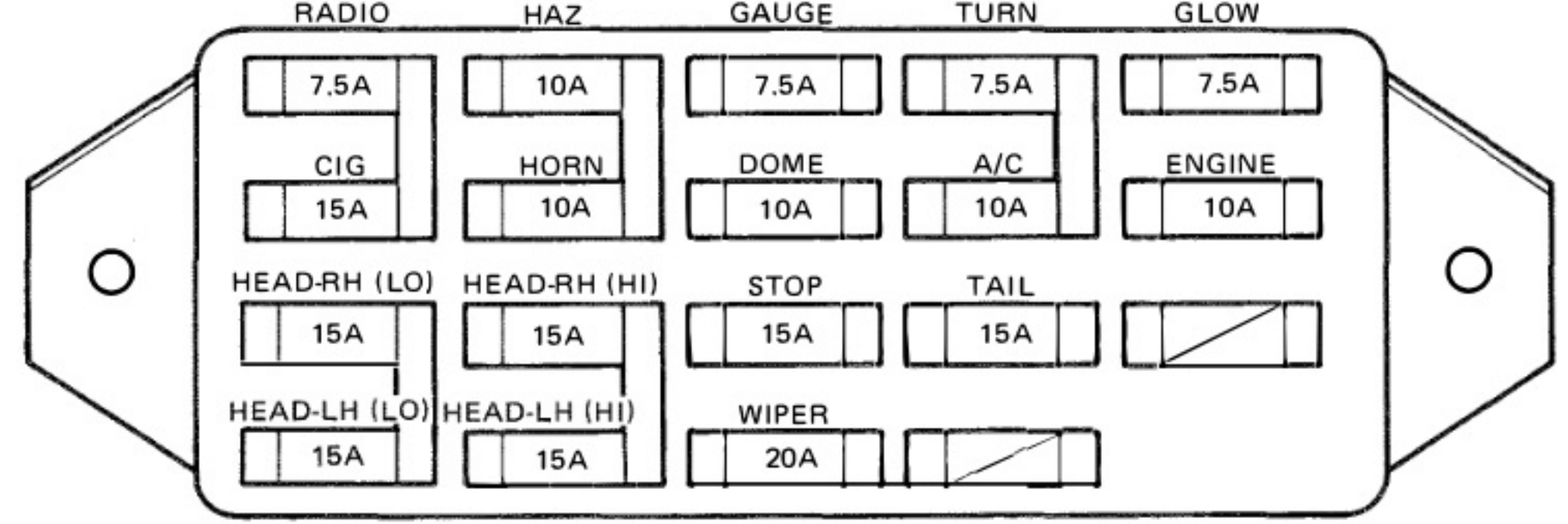
[Body]



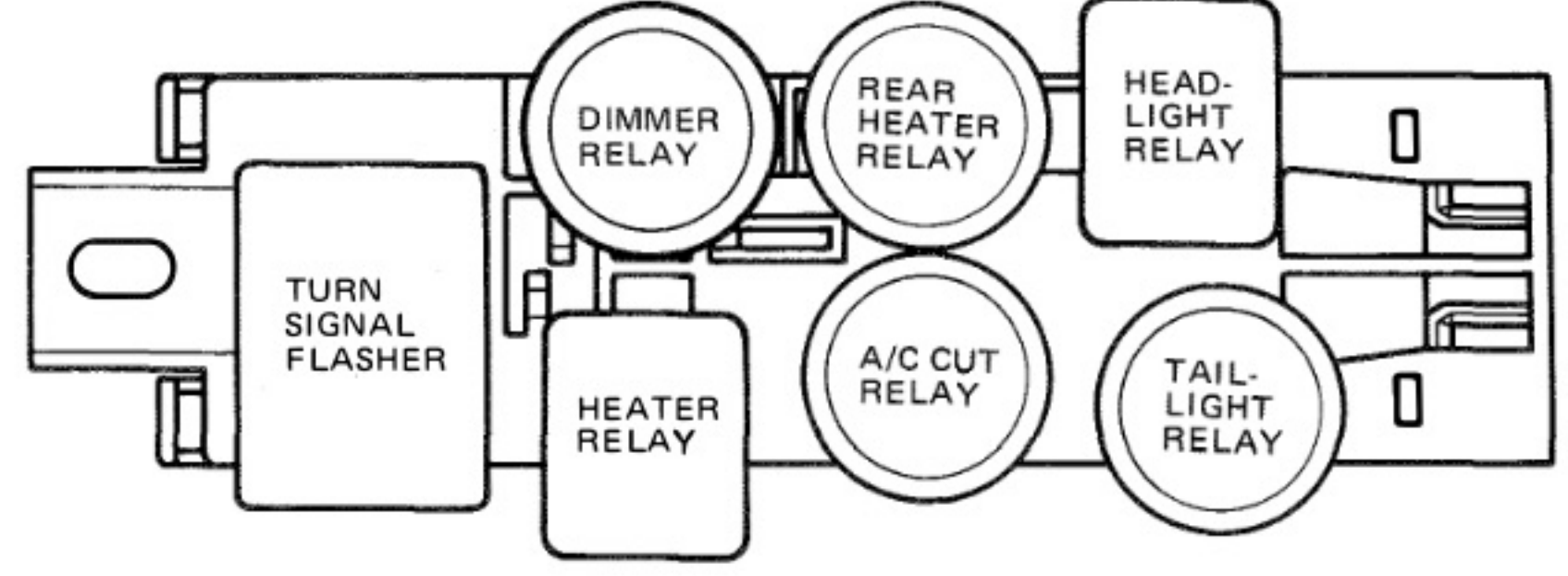
Fuse Box
(Ex. Portugal)



(Portugal)



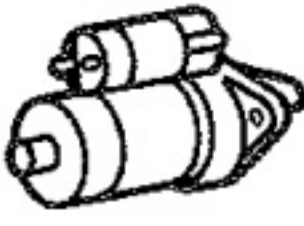
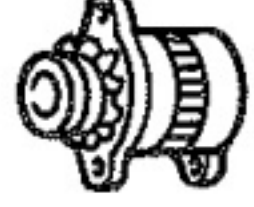
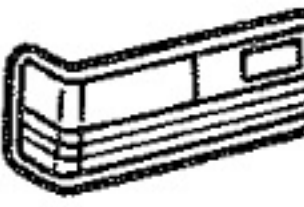
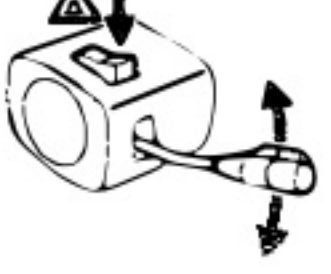
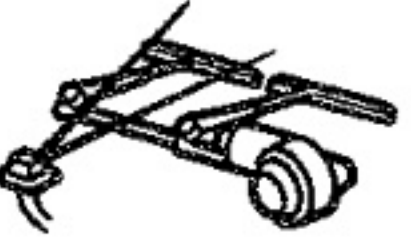
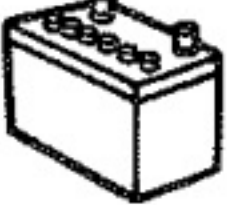
Relay Block



SYSTEM INDEX

HEAVY-DUTY TRUCK DA Series

1989 Production Vehicles (Page 1 to Page 2)

SYSTEMS	LOCATION	SYSTEMS	LOCATION
Air Brake	 1-7	Starting	 1-1
Air Conditioner, Cooler and Heater	 2-6	Stop Lights	 1-6
Back-up Light	 2-2	Tachograph	 2-2
Charging	 1-2	Taillights and Illumination	 2-4
Cigarette Lighter	 2-8	Turn Signal and Hazard	 1-4
Combination Meter	 1-6	Two-Speed	 2-1
Dump	 2-1	Work Light	 1-5
Exhaust Brake	 2-6		
Fog Lights	 2-3		
Front Wiper and Washer	 2-7		
Glow Plugs	 1-2		
Headlights	 2-5		
Horn	 1-4		
Interior Lights	 1-5		
Power Source	 1-1		
Radio and Tape Player	 2-8		
Seat Belt Warning	 1-6		
Sedimenter	 1-3 (2D)		

