

DAIHATSU

L500, L501

BODY ELECTRICAL SYSTEM

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LBE0001-00000

NO. 9198-LE

BE

00 GENERAL DESCRIPTION

Handling precaution

Disconnection and connection of each connector should be kept at a minimum level. If unnecessary disconnection or connection is repeated, it may cause unexpected troubles such as poor continuity and chattering.

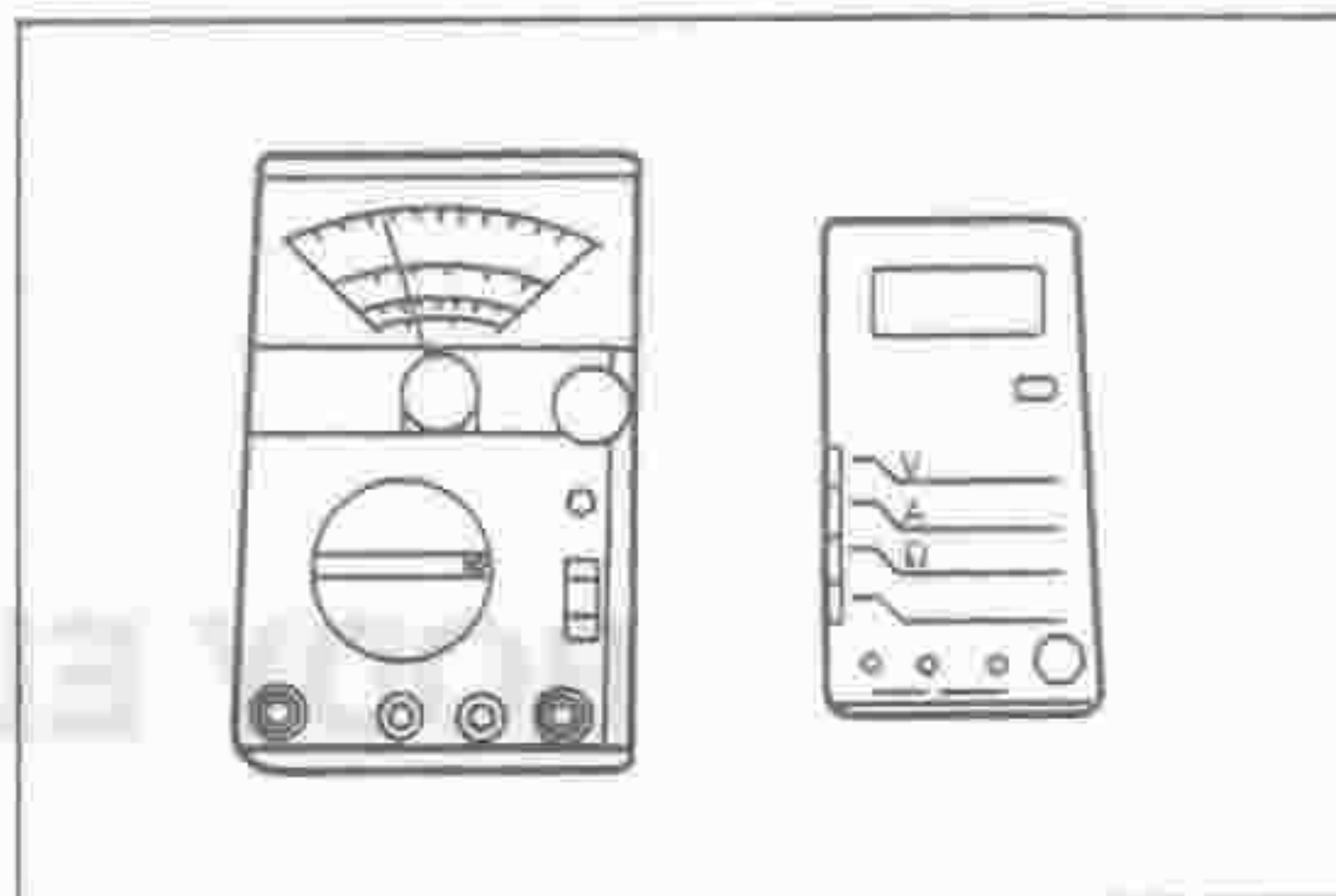
LBE00002-00000

INSPECTION

Tester (Volt/ohmmeter)

For the inspection, use a tester having an internal resistance of more than 10 k Ω /V.

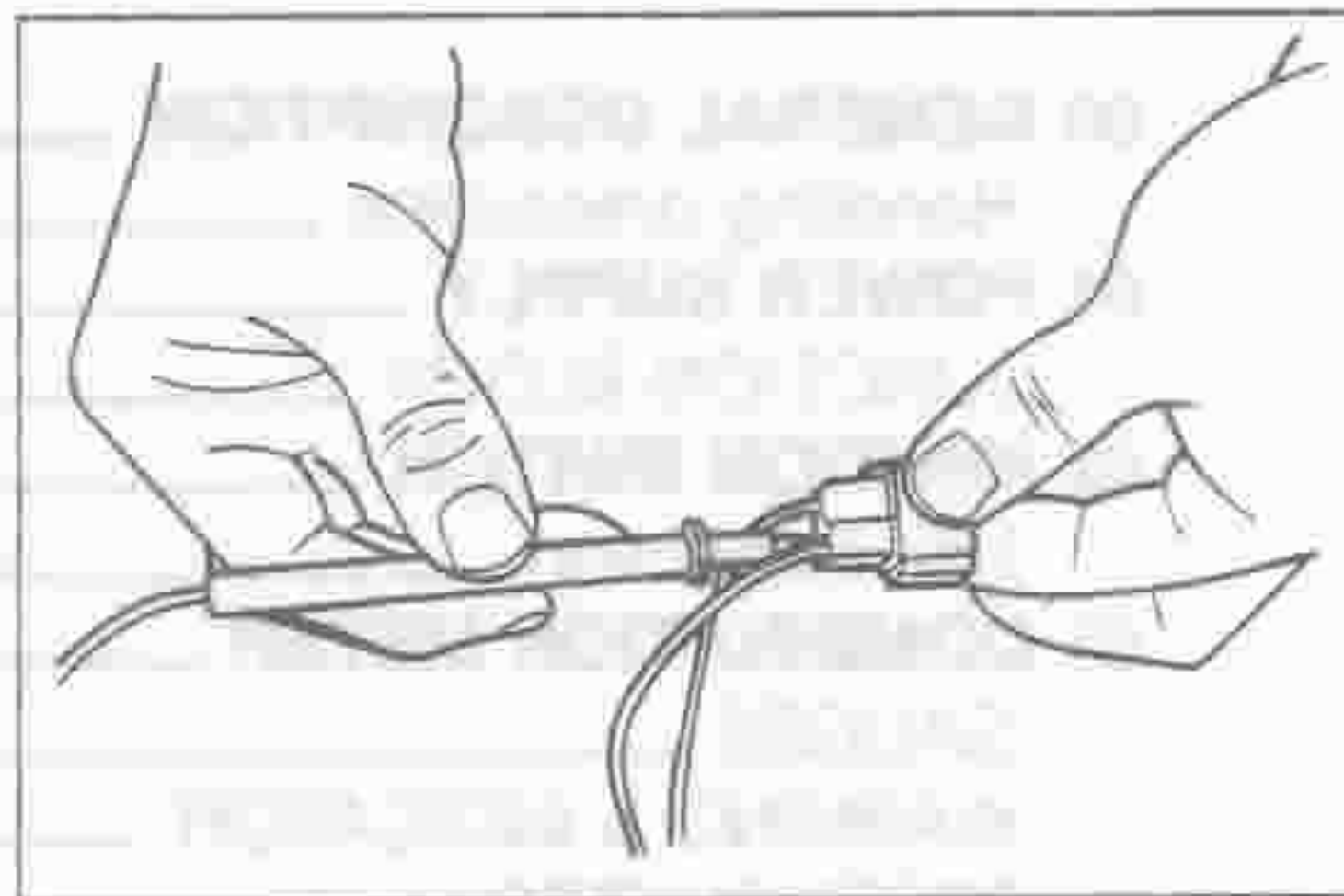
Use of a tester with a low internal resistance may cause wrong measurement or secondary troubles.



LBE00003-00002

Conventional type connector

When resistance measurement and/or voltage measurement is conducted at the connector section, insert the measuring probe from the back of the connector, being very careful not to damage the harness-to-terminal connections.



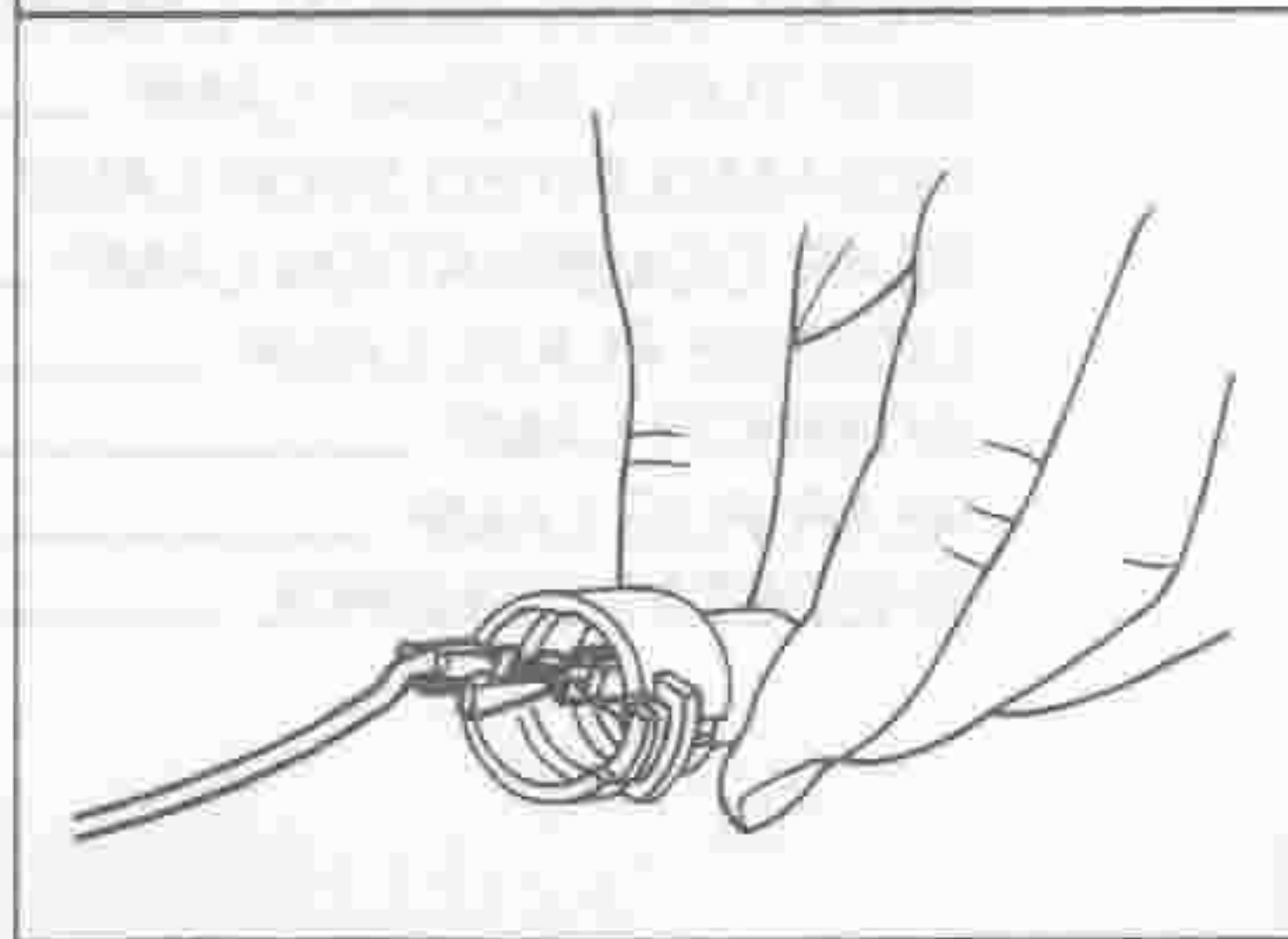
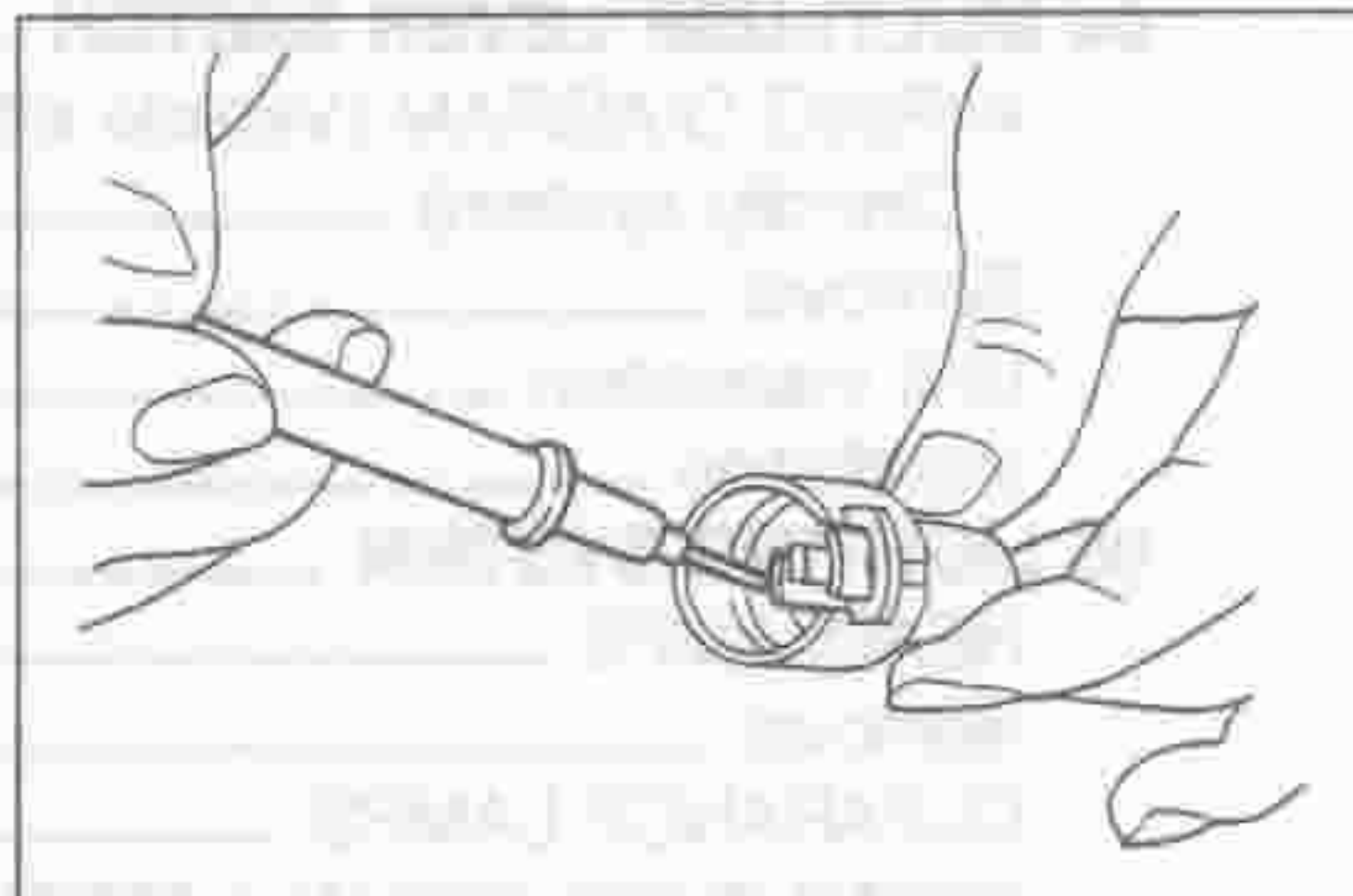
LBE00004-00003

Water-proof type connector

When resistance measurement and/or voltage measurement is conducted at the connector section, bring the measuring probe into contact with the terminal at the connection side of the connector.

Be very careful not to apply excessive force to the terminal at the connector side. Failure to observe this caution may deform the terminal, causing poor continuity.

As an alternative method, insert a male or female terminal into the connector terminal or connect an adequate attachment. Then, connect the measuring probe.



LBE00005-00004

LOCK TYPE CONNECTOR

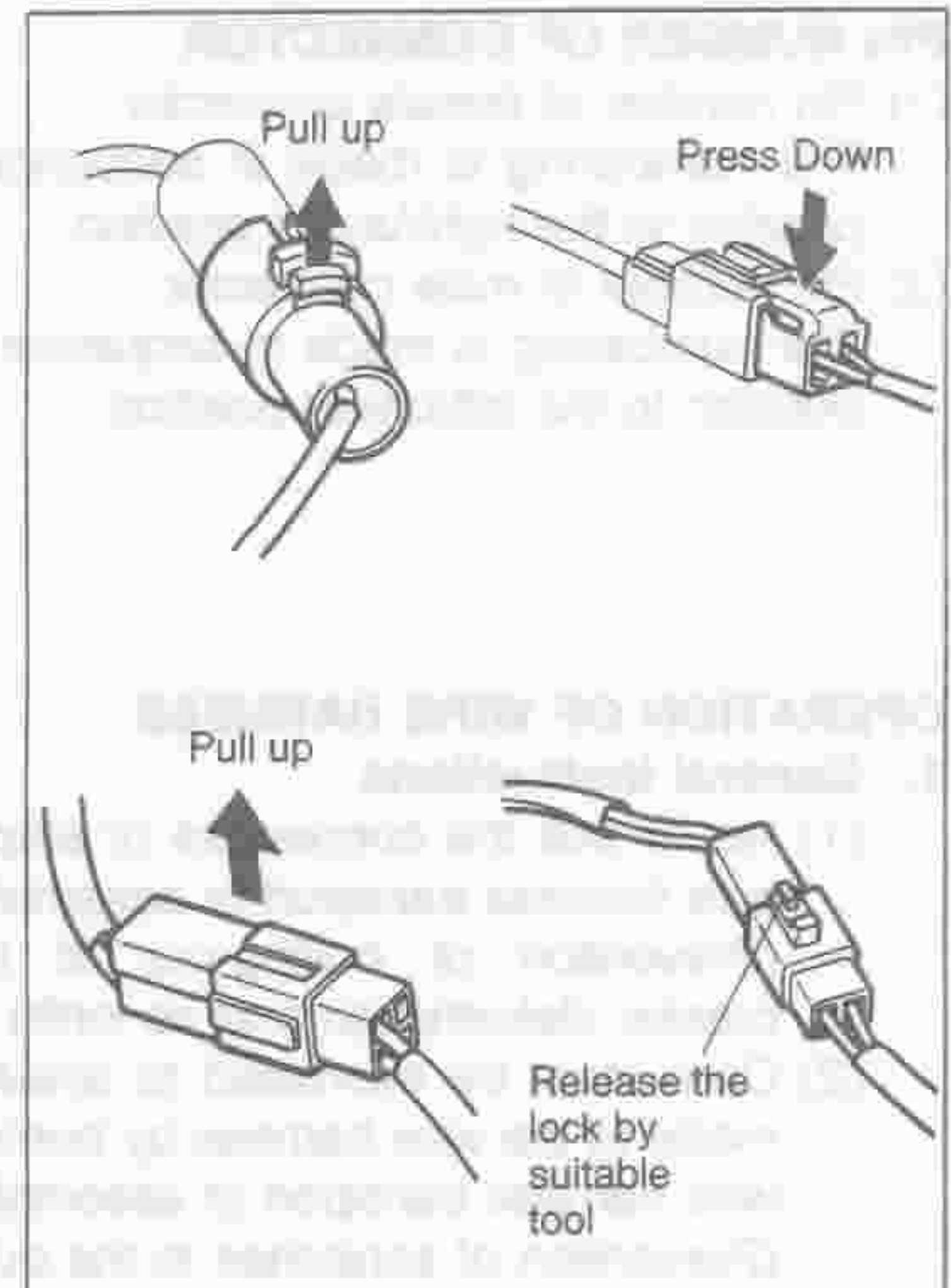
Disconnection

The lock type of the connector comes in a push release type, a pull release type, a spring lock type, an one-way lock type and so on.

After confirming the shape of the lock, unlock the lock. Disconnect the connector while holding the connector by hand.

NOTE:

- Never pull the harness during the disconnection.
- Be sure to pull out the connector straight so as not to damage the terminal.



LBE00006-00005

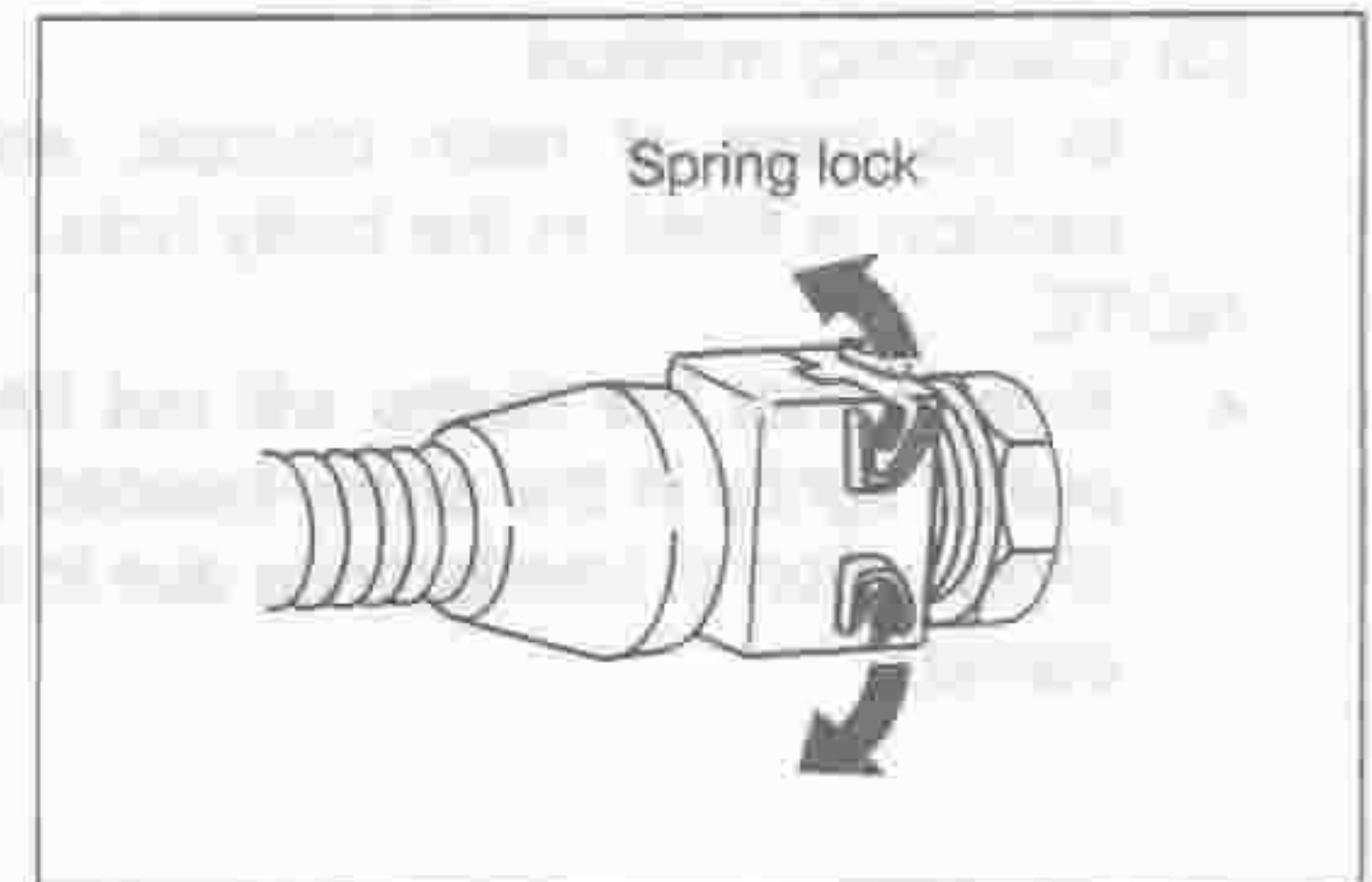
Connection

Perform the connection until the lock is completely engaged.

After the connection has been made, ensure that the lock is engaged positively.

NOTE:

- Be sure to connect the connector straight so as not to damage the terminal.



LBE00007-00006

TERMINAL REMOVAL/INSTALLATION

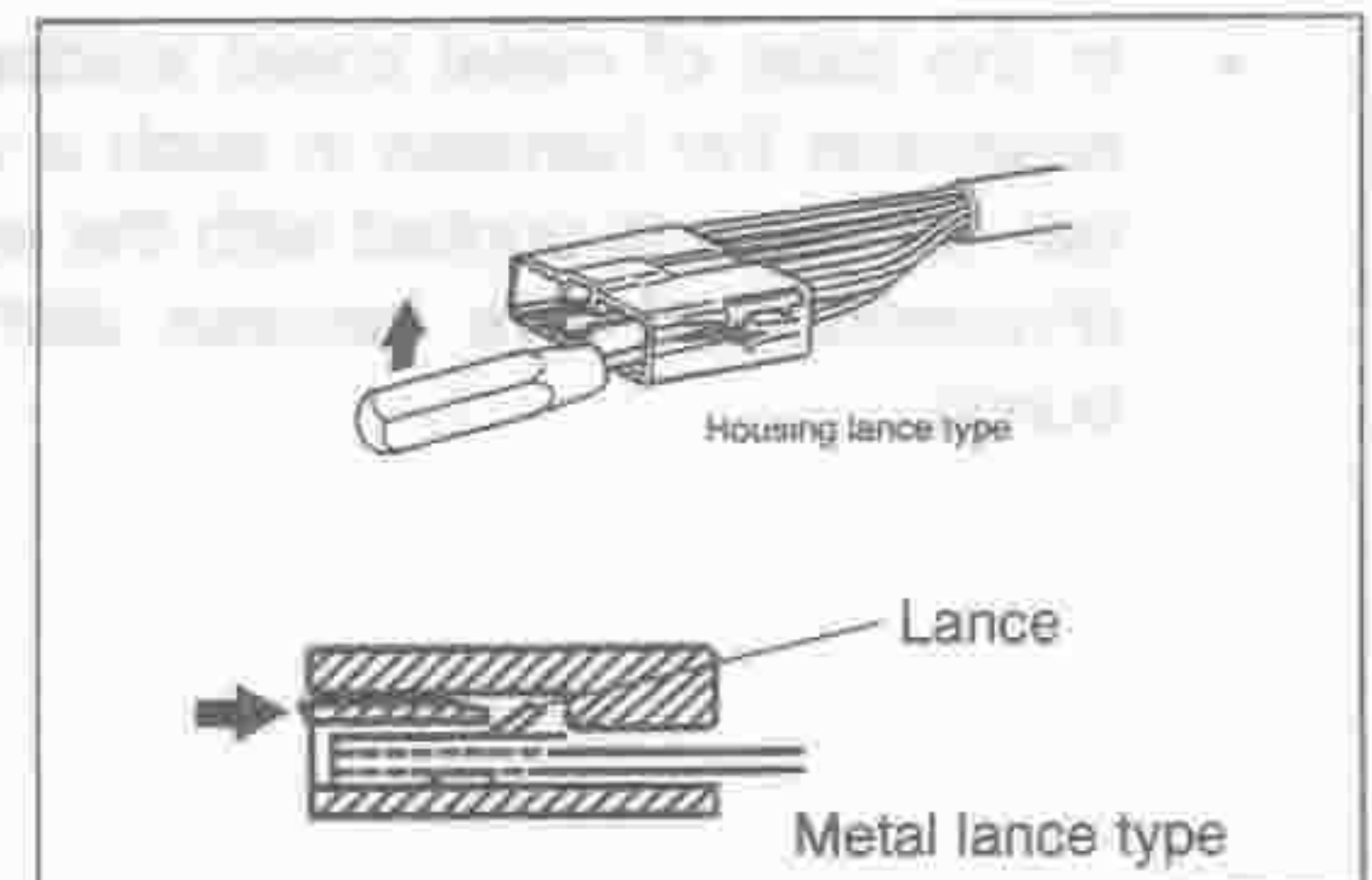
Removal of terminal

<Housing lance type>

Insert a miniature screwdriver through the opening section of the connector into between the locking lug and the terminal. While prying up the locking lug with the screwdriver, pull the terminal backward.

<Metal lance type>

While pushing the lance with the screwdriver, pull the terminal backward.



LBE00008-00007

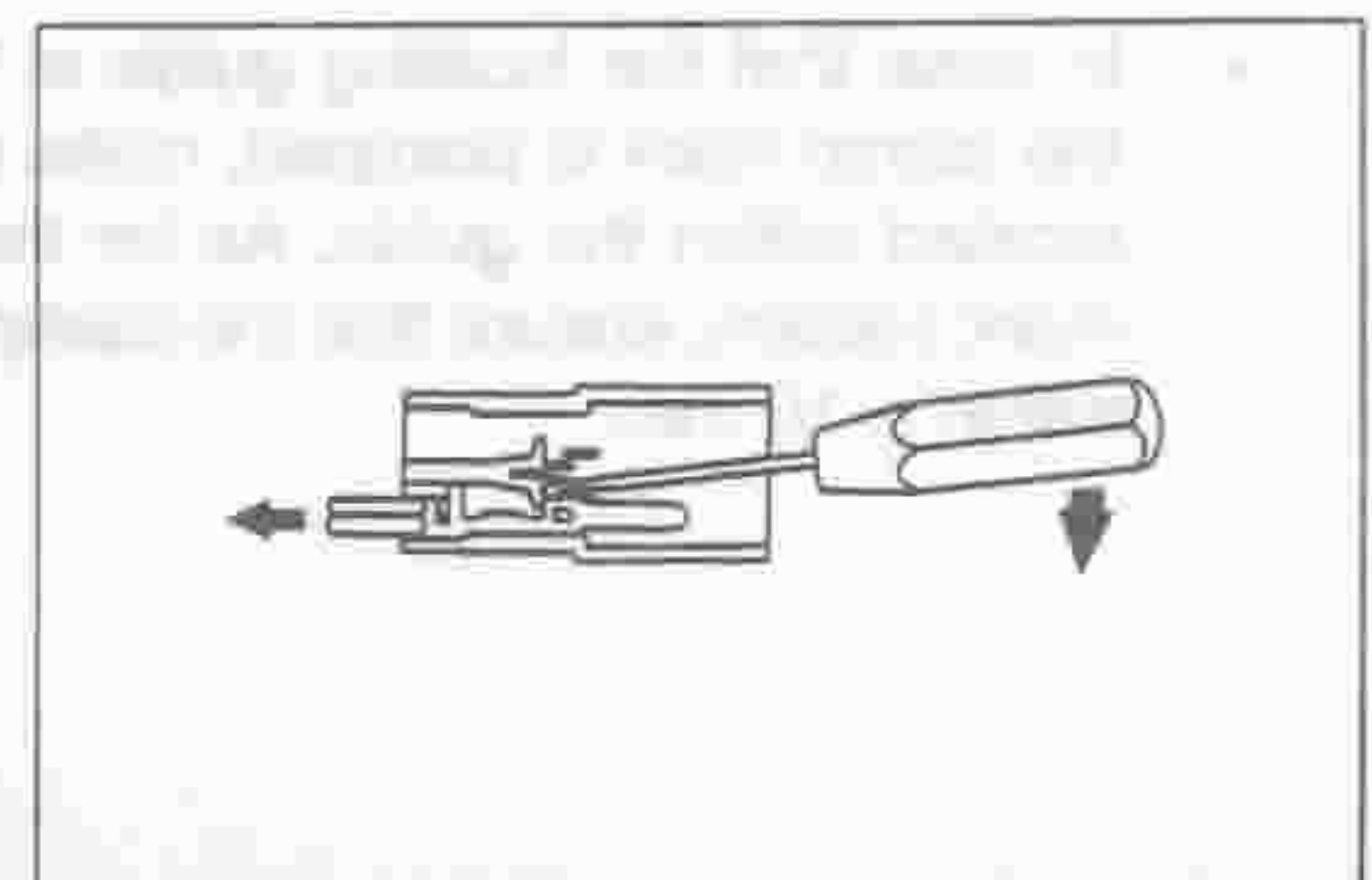
Installation of terminal

<Housing lance type>

Push the terminal into the protruding section of the connector, until the lock is engaged completely. Lightly pull the harness to assure that the locking has been made completely.

<Metal lance type>

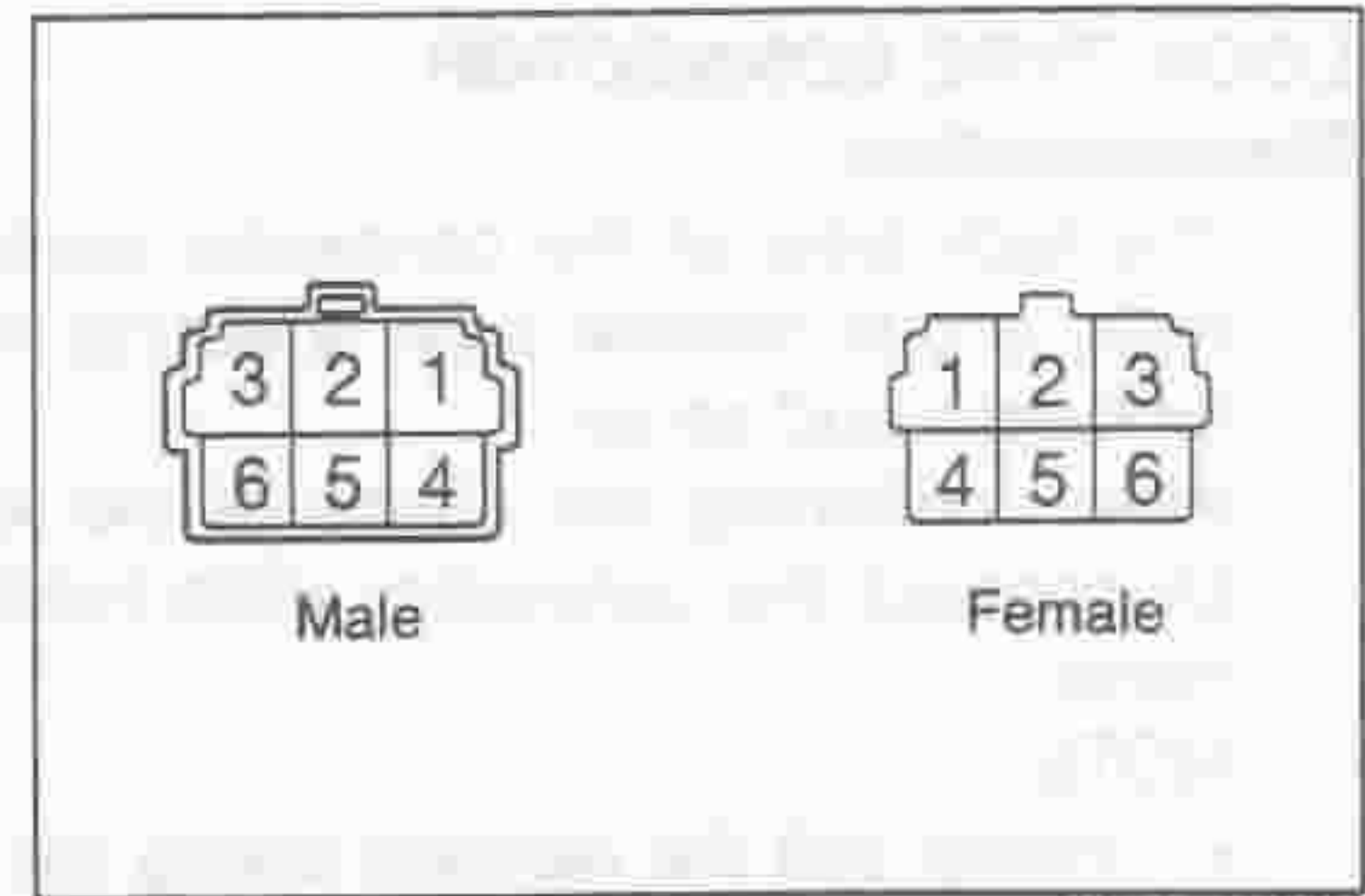
Insert the terminal into the connector, until lance is locked completely. Lightly pull the harness to assure that the locking has been made completely.



LBE00009-00008

PIN NUMBER OF CONNECTOR

- (1) Pin number of female connector
The numbering is made in sequence from the left/upper position to the right/under position.
- (2) Pin number of male connector
The numbering is made in sequence from the right/upper position to the left/under position.



LBE00010-00009

OPERATION OF WIRE HARNESS

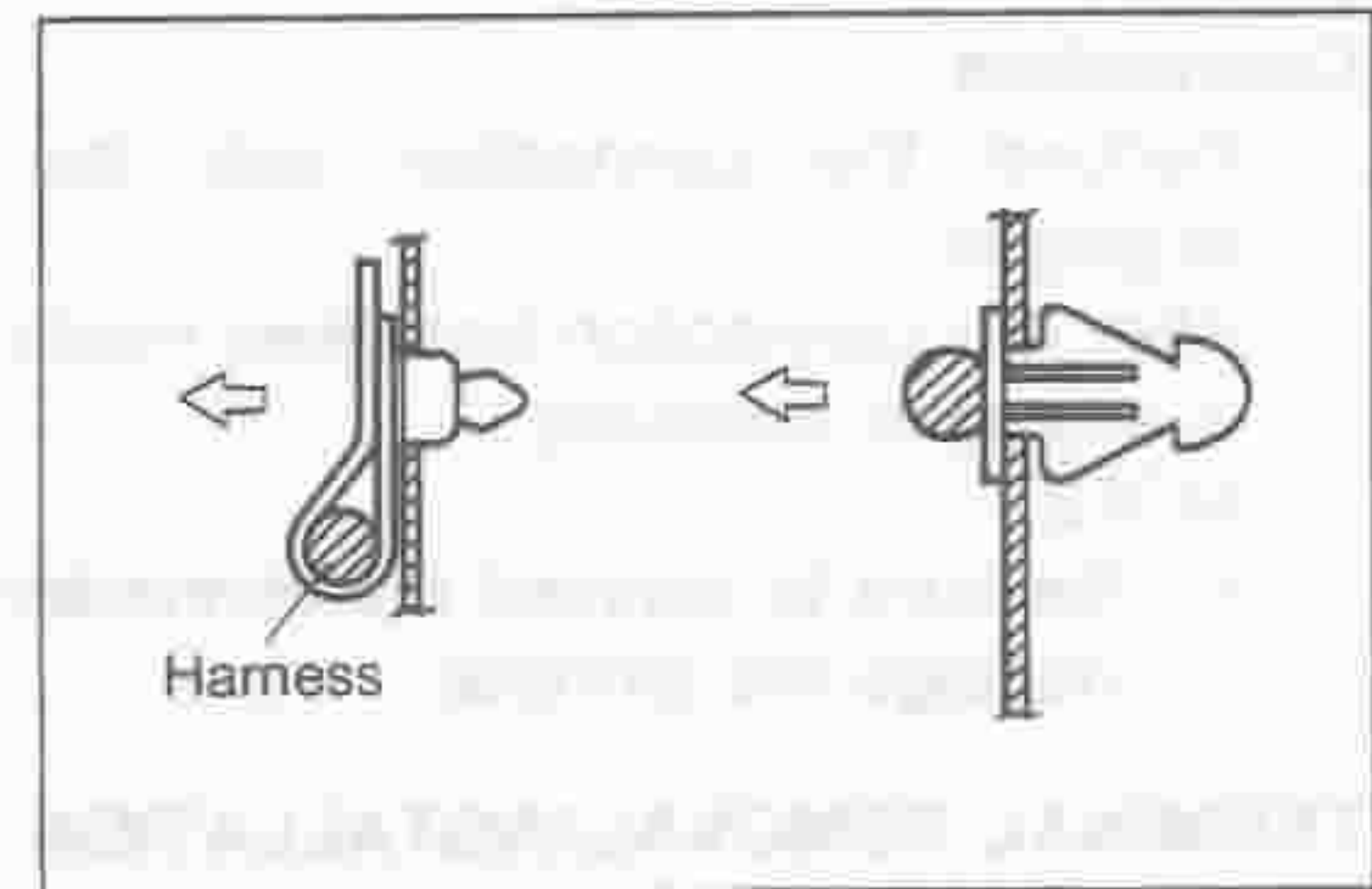
1. General instructions

- (1) Never pull the connectors or step on them during the wire harness transport or assembly.
(Prevention of pulling-out of terminals, connector cracks, deformation and so forth)
- (2) Care must be exercised to ensure that no scratch is made to the wire harness by burrs or edges during the wire harness transport or assembly.
(Prevention of scratches to the outer trim, electrical insulators and so forth)
- (3) Clamping method
In the case of resin clamps, ensure that the clamp section is fitted in the body hole.

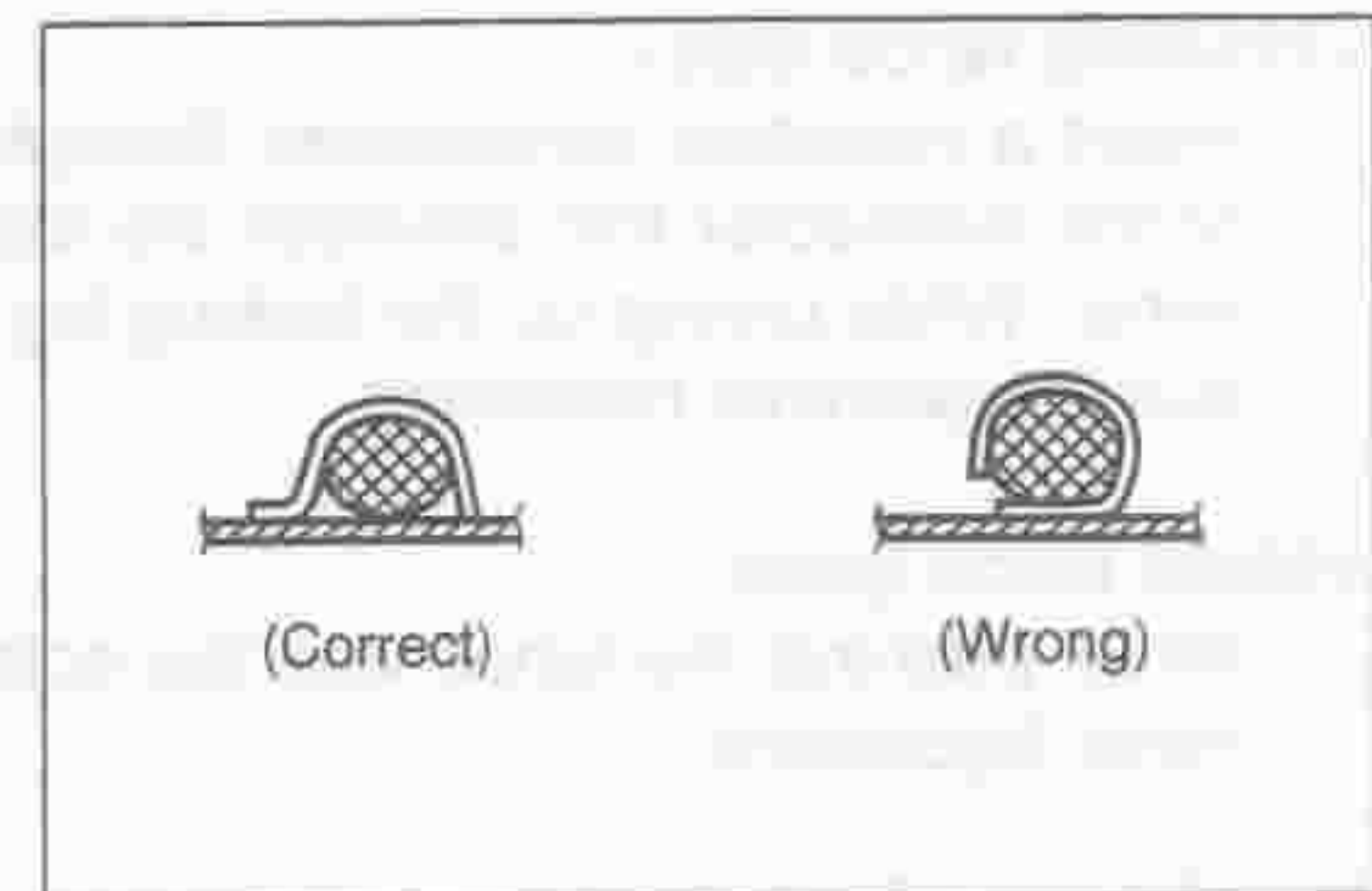
NOTE:

- Ensure that the clamp will not be detached when it is pulled lightly in the arrow-headed direction.
(Prevention of interference due to the detachment of the clamp)
- In the case of metal sheet welded clamps, be sure to assemble the harness in such a way that the harness will not come in contact with the welded surface.
(Prevention of wire harness damage due to welding burrs)

LBE00011-00000

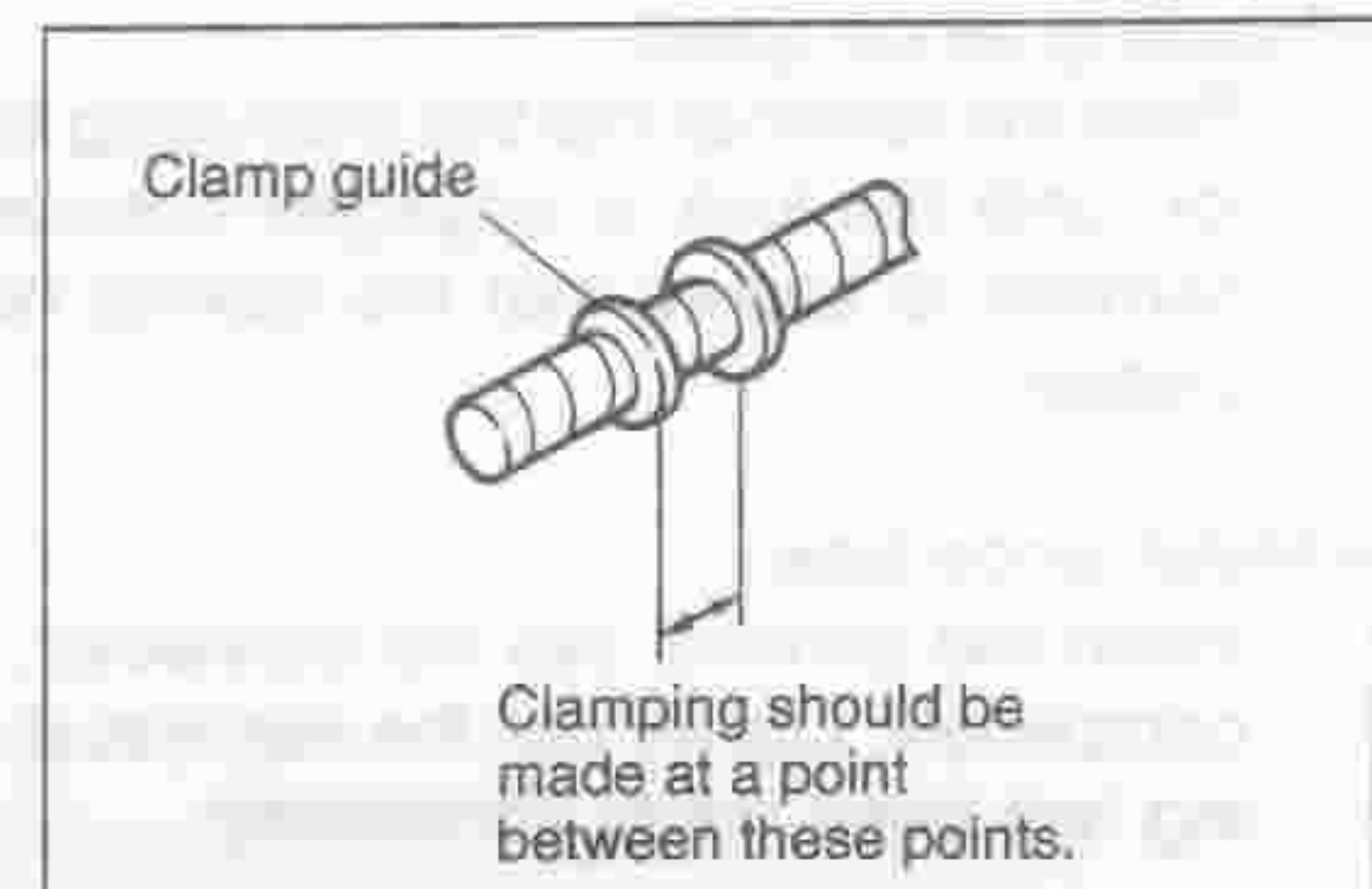


LBE00012-00011



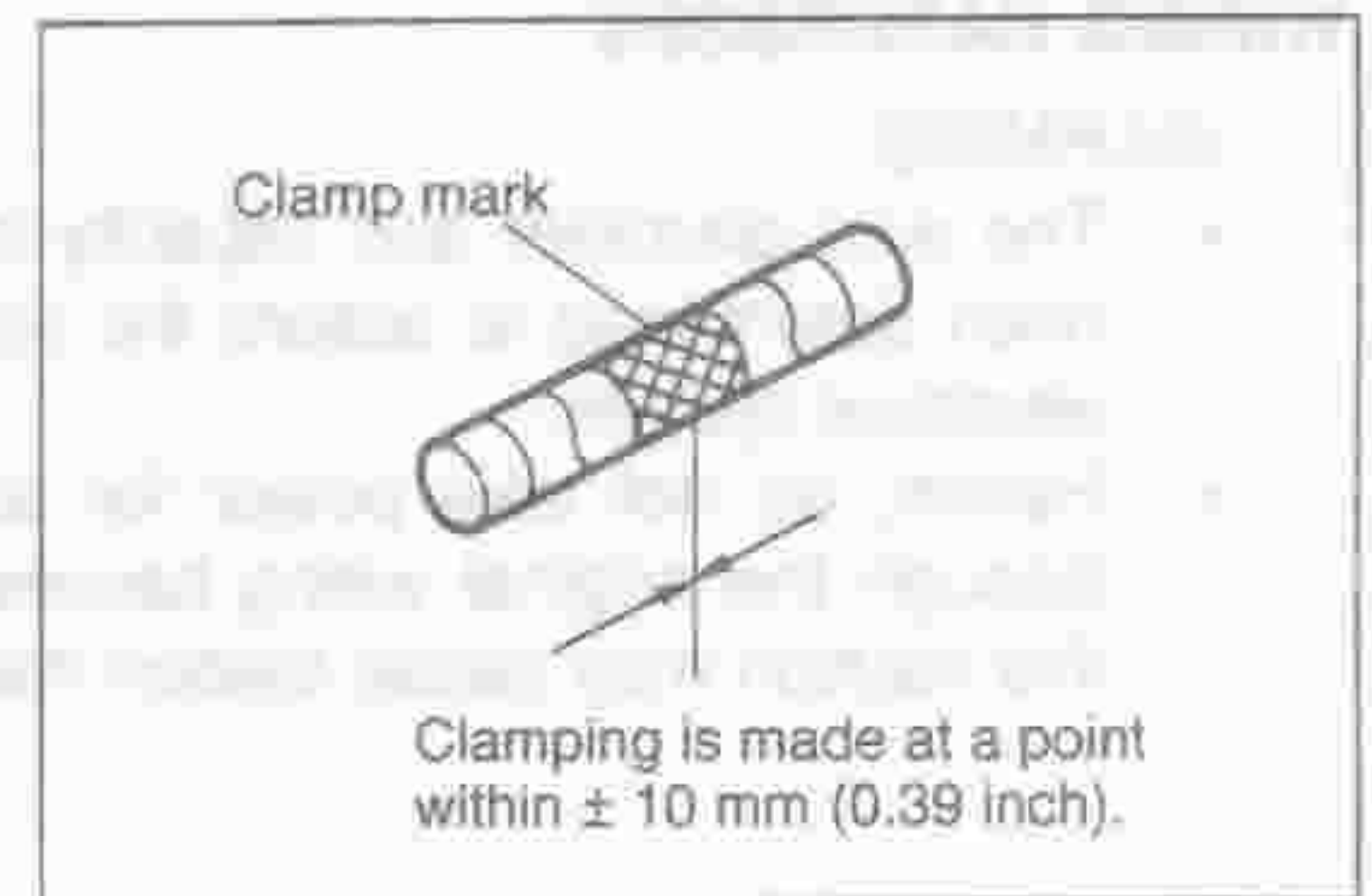
LBE00013-00012

- In case that the locating guide of the clamp position or the clamp mark is clamped, make sure that the clamp is located within the guide. As for the clamp at the clamp mark section, ensure that the clamping is made at a point within ± 10 mm.



LBE00014-00013

(Prevention of slackness or interference)



LBE00015-00014

(4) Terminals and connectors

Perform the connection of connectors positively.

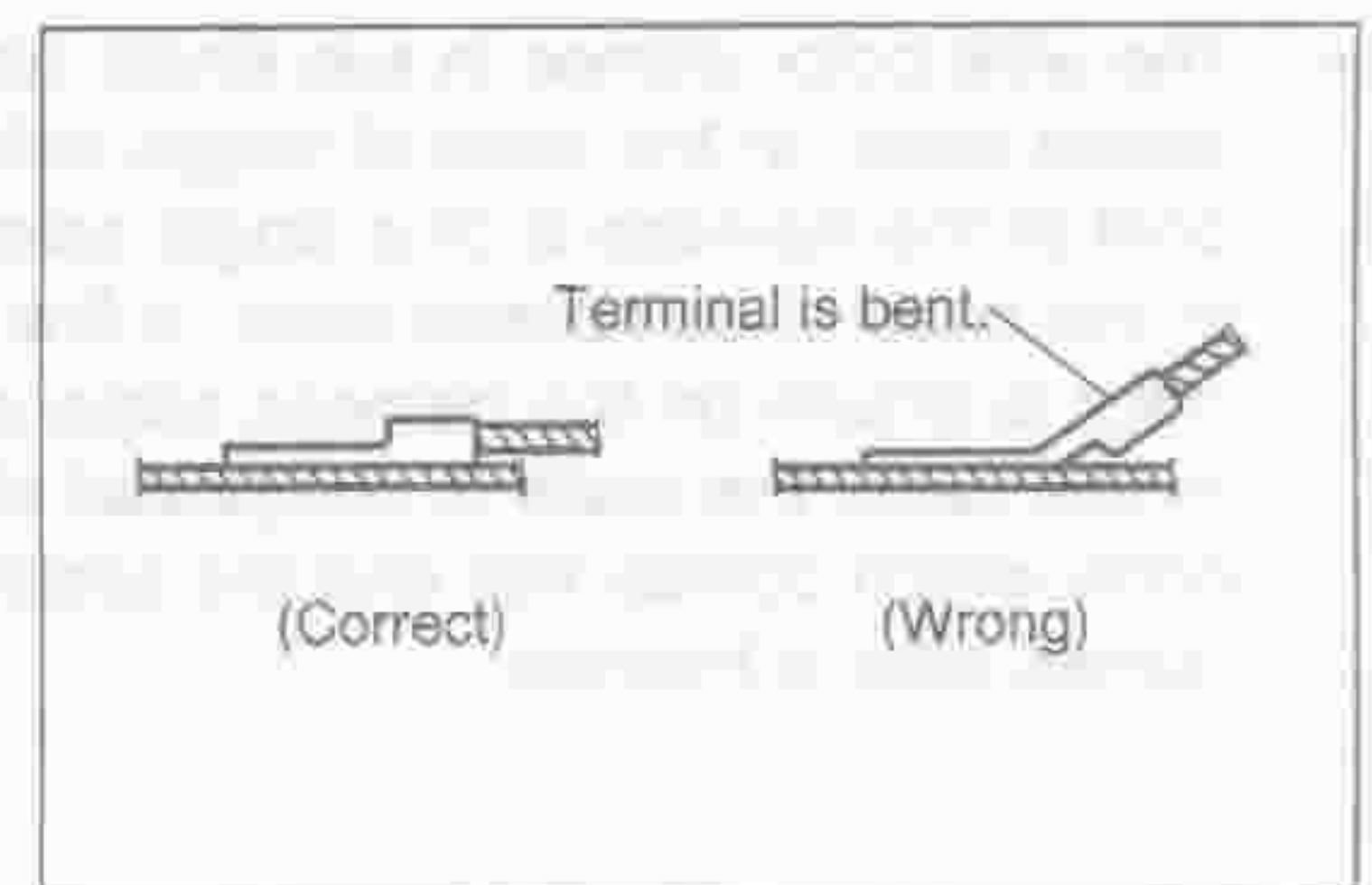
- Connector with lock Ensure that the locking is made.
- Connector without lock Connect the connector positively until it stops.



LBE00016-00000

Retention by screws

- When the tightening torque is specified, be sure to observe the specification strictly. (The tightening torque is posted in the table separately.)
- Ensure that the staked section may not come on the assembling surface.
- After completion of the tightening operation, lightly pull out the terminal. Ensure that there is no slackness.
- When performing other operations, care must be exercised to ensure that no connected connector is detached by pulling out the wire harness forcibly.



LBE00017-00016

LBE00016-00000

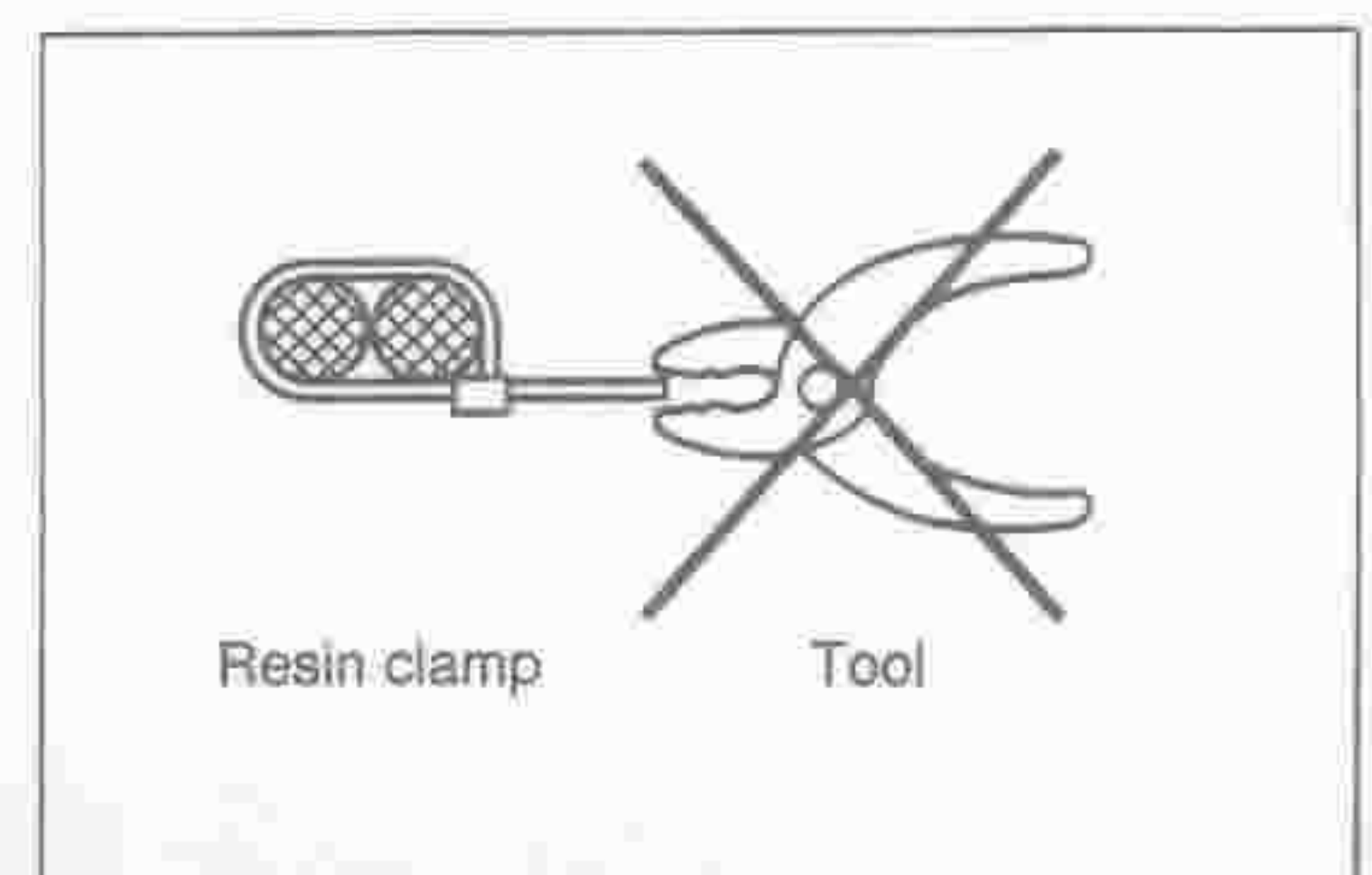
2. Work procedure for tightening-up type resin clamps

<Work procedure>

When the tightening-up type resin clamps are employed, do not use any pliers, cutting pliers or the like.

<Reason>

Prevention of clamps being cut or scratched



LBE00019-00018

WIRING HARNESSSES

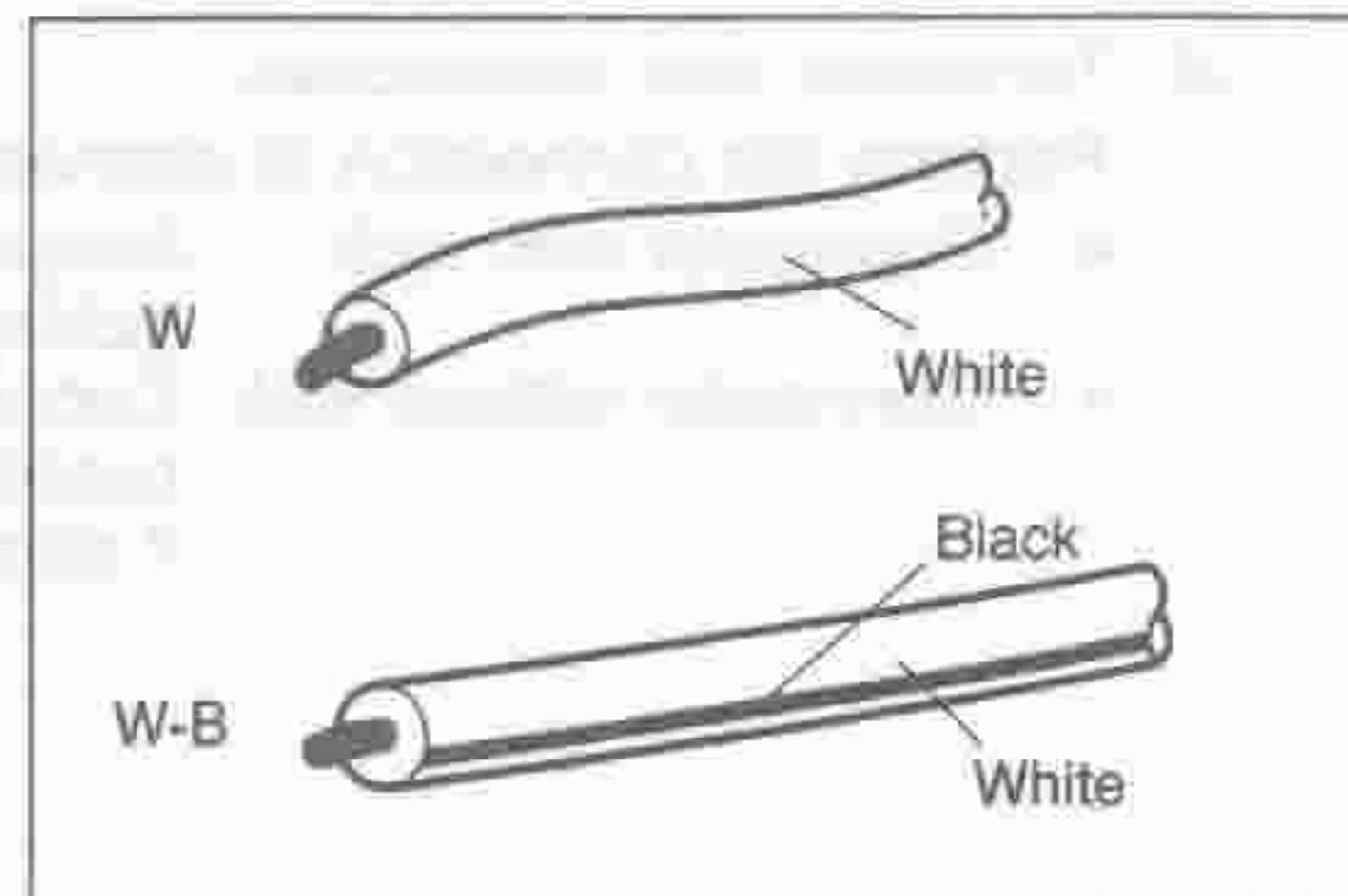
WARNING:

- The wire diameter and capacity of each harness have been determined to assure the normal operation of the electrical system.
- Hence, do not take power for accessories carelessly through the original wiring harness. Failure to observe this caution may cause system malfunction or fire.

LBE00020-00000

WIRING COLOR CODE

- For identification purpose, each wire has its own color. Each color bears a code as described in the right table. These codes are used in the wiring diagram and will be helpful during trouble shooting.



LBE00021-00020

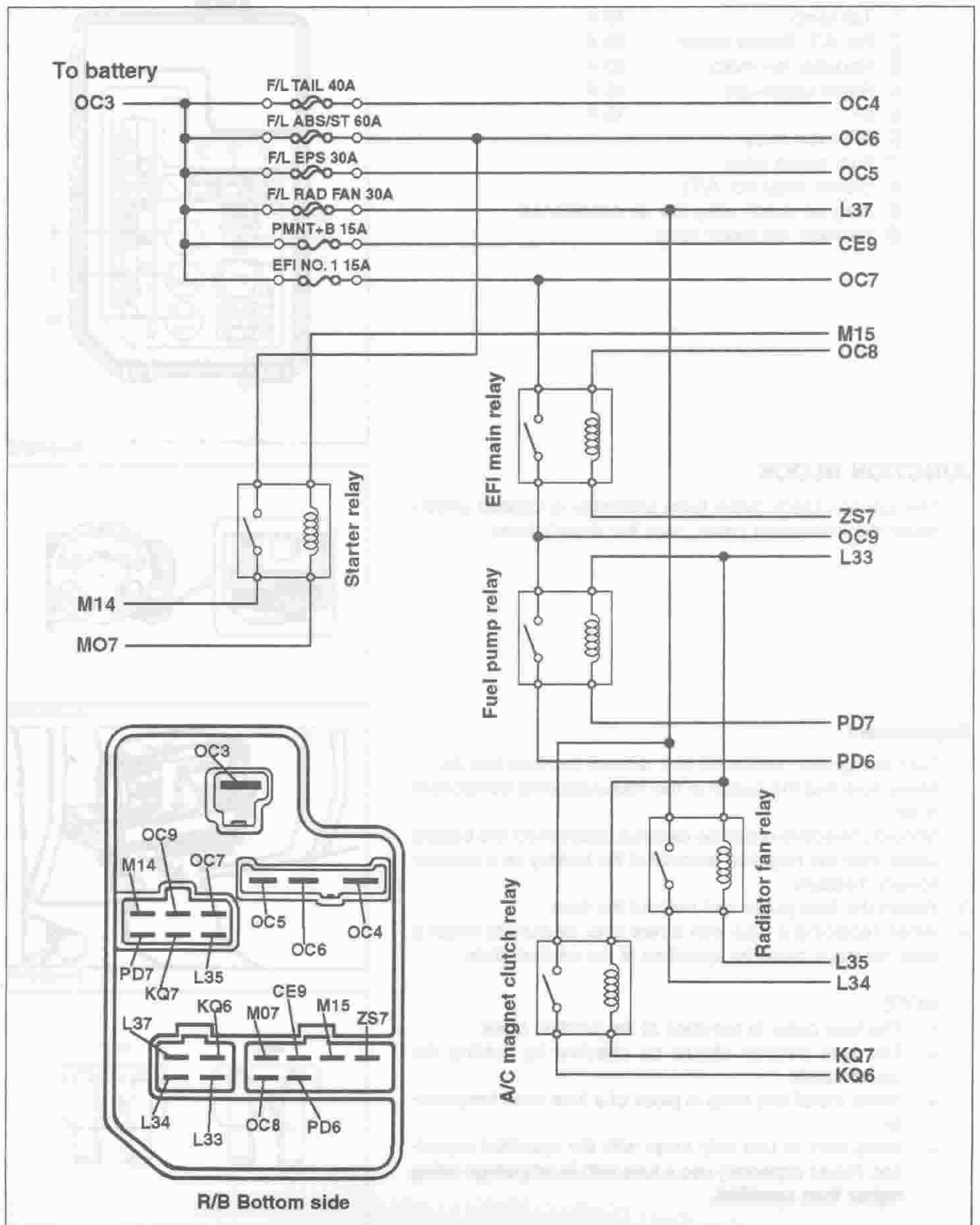
- The wire color comes in two kinds: single color and composite color. In the case of single color, the whole outer coat of the harness is of a single color. In the case of composite color, a fine line of the second color is drawn on the harness basic color. In this case, the code is composed of the basic color code which comes first and the second color code which comes after a hyphen.

Code	Gr	Br	B
Color	Gray	Brown	Black
Code	W	R	G
Color	White	Red	Green
Code	Y	L	O
Color	Yellow	Blue	Orange
Code	P	Lg	V
Color	Pink	Light green	Violet

LBE00022-00000

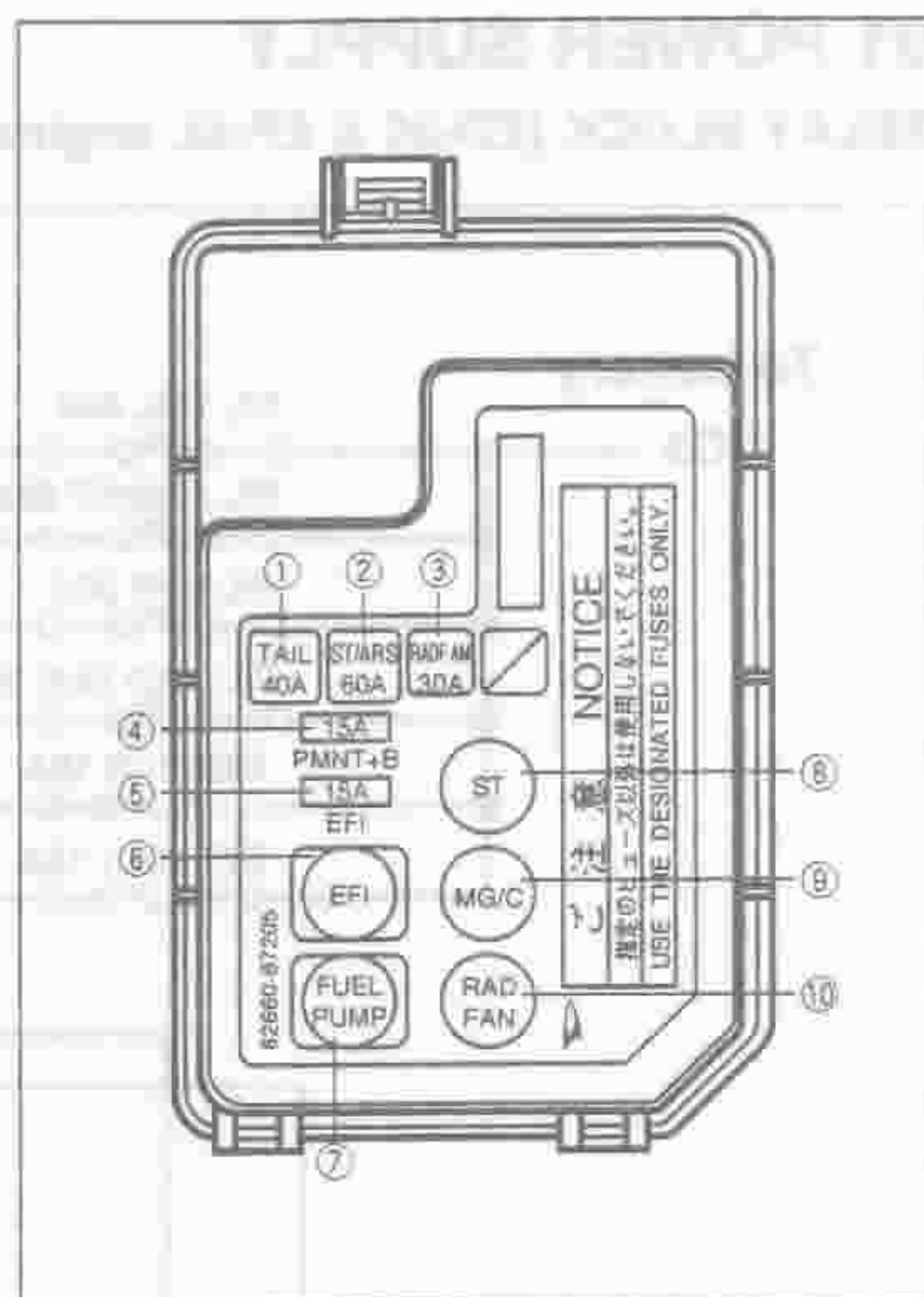
01 POWER SUPPLY

RELAY BLOCK (ED-20 & EF-EL engine mounted vehicles)



The relay block is located near the battery in the engine compartment.

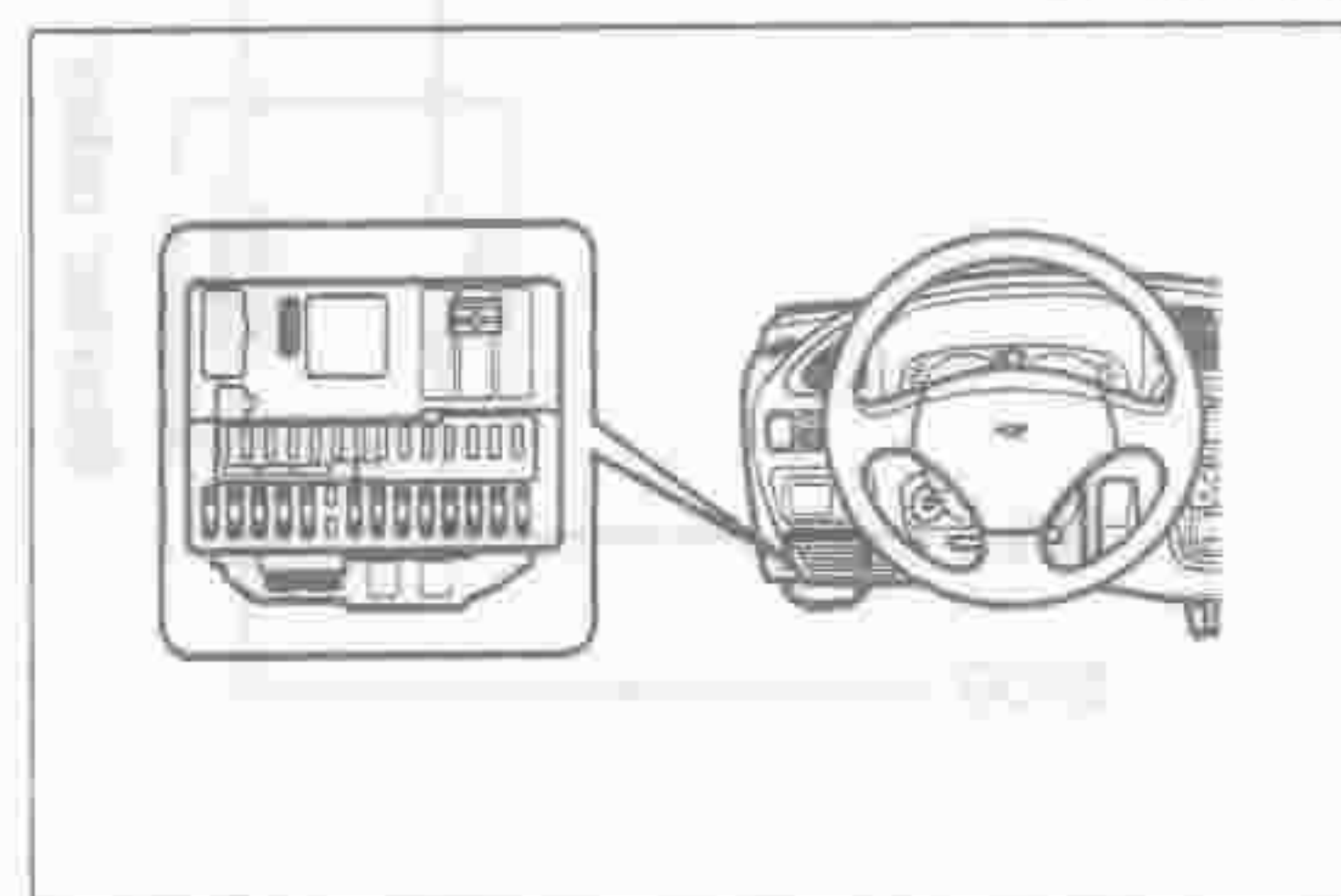
- | | |
|---|------|
| ① Tail lamp | 40 A |
| ② For A/T: Starter motor | 60 A |
| ③ Radiator fan motor | 30 A |
| ④ Radio (back-up) | 15 A |
| ⑤ EFI | 15 A |
| ⑥ EFI main relay | |
| ⑦ Fuel pump relay | |
| ⑧ Starter relay (for A/T) | |
| ⑨ Magnet clutch relay (for air conditioner) | |
| ⑩ Radiator fan motor relay | |



LBED0024-00102

JUNCTION BLOCK

The junction block (Main fuse) assembly is located underneath the instrument panel, near the driver's knee.



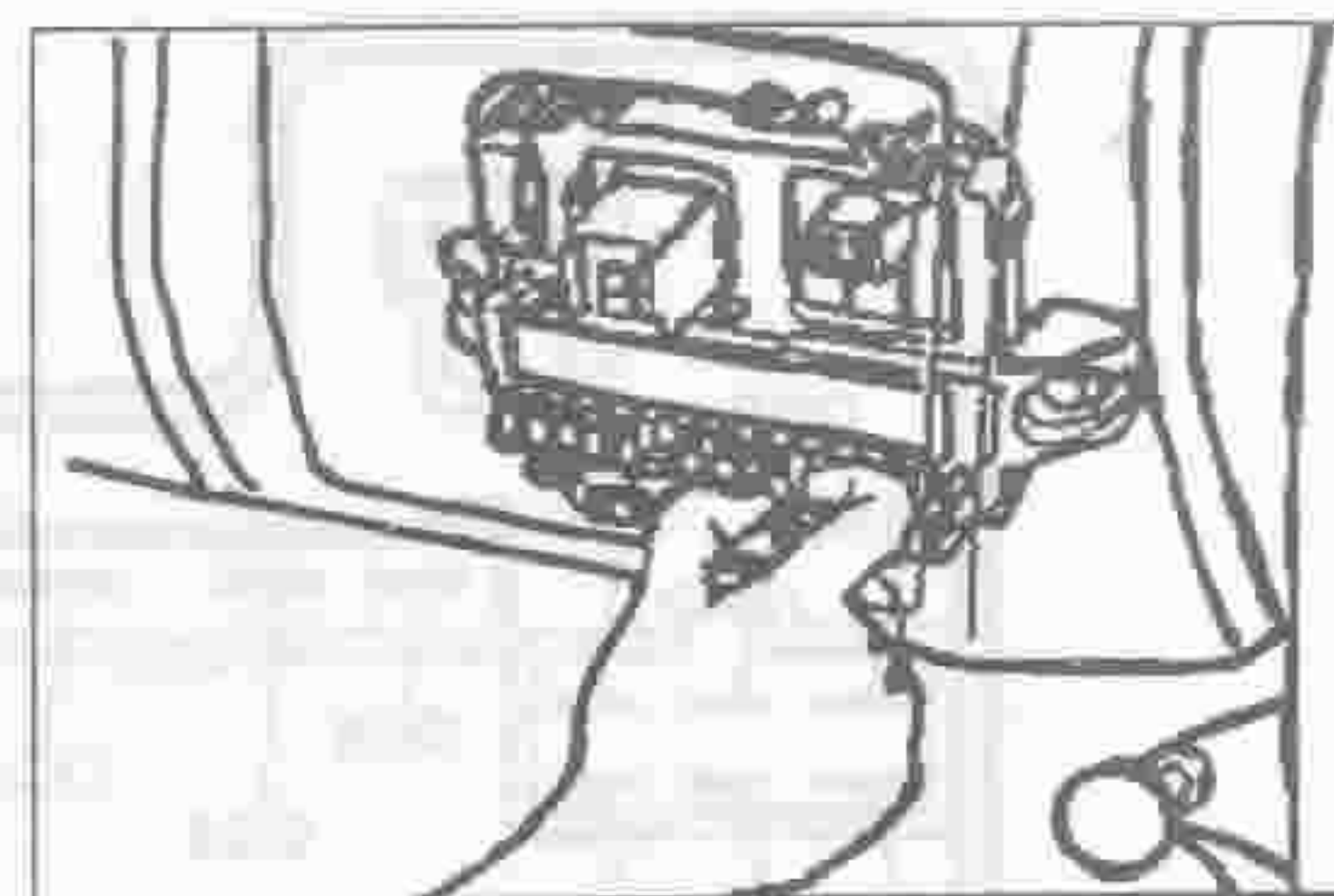
LBED0025-00103

Replacement

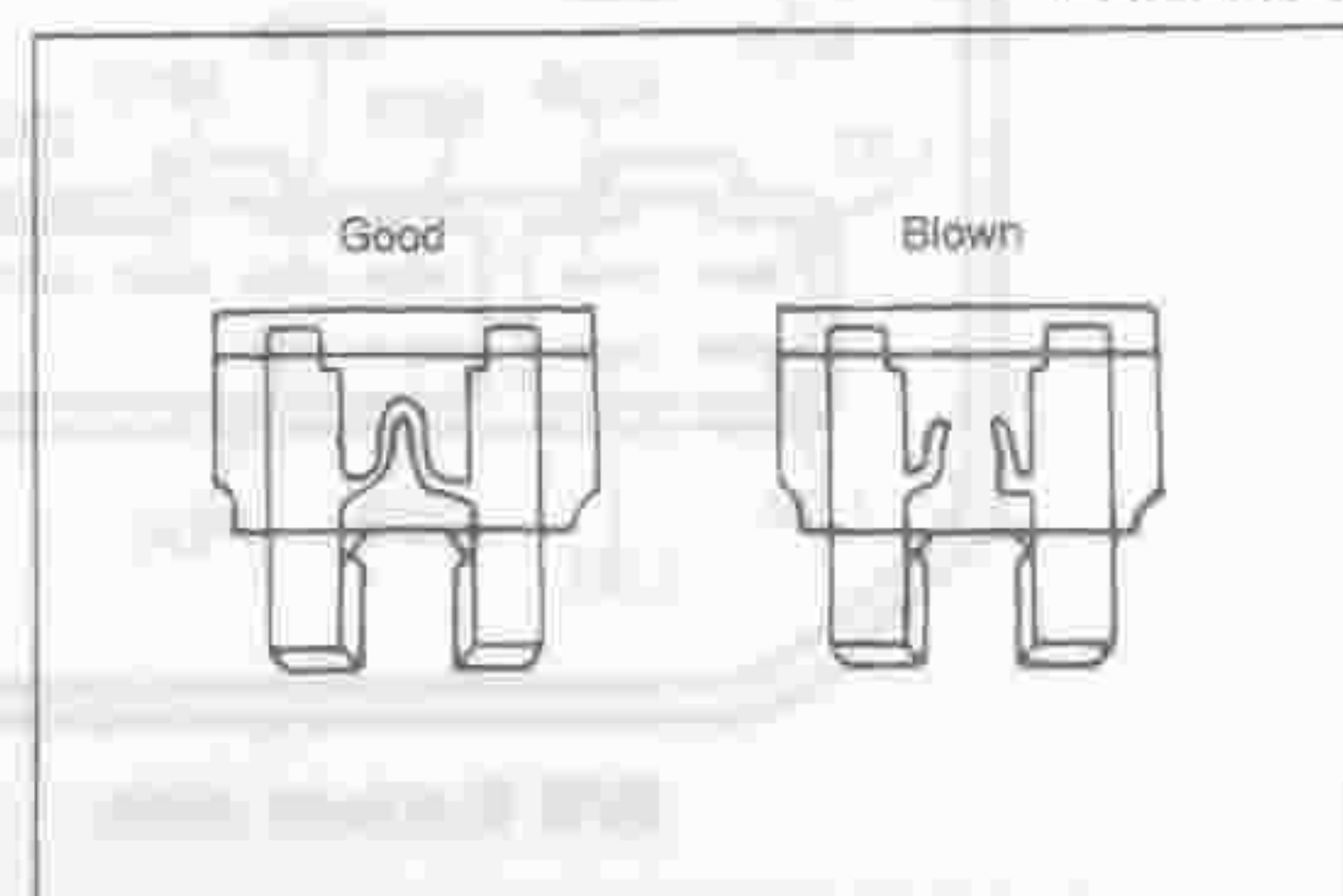
1. Turn the ignition switch off and remove the fuse box lid.
2. Make sure that the switch of the malfunctioning component is off.
Should corrective repair be delayed, disconnect the battery cable from the negative terminal of the battery as a precautionary measure.
3. Attach the fuse puller and pull out the fuse.
4. When replacing a fuse with a new one, be sure to install a fuse having a capacity specified at the caution plate.

NOTE:

- The fuse puller is provided at the junction block.
- The fuse position should be checked by holding the caution plate.
- Never install any thing in place of a fuse even temporarily.
- Make sure to use only fuses with the specified capacities. Never especially use a fuse with its amperage rating higher than specified.



LBED0026-00104



LBED0027-00105

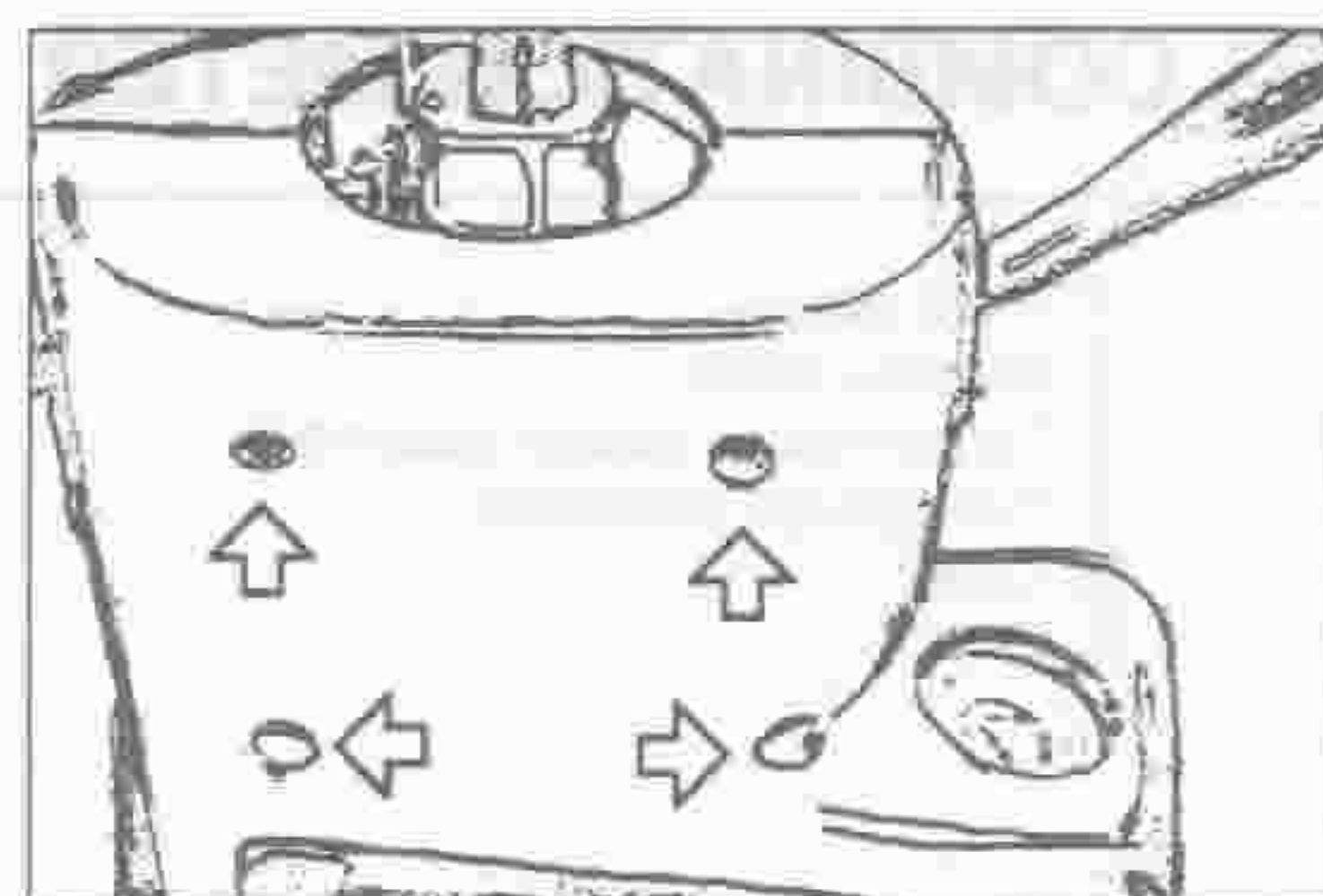
02 IGNITION SWITCH

Unit inspection

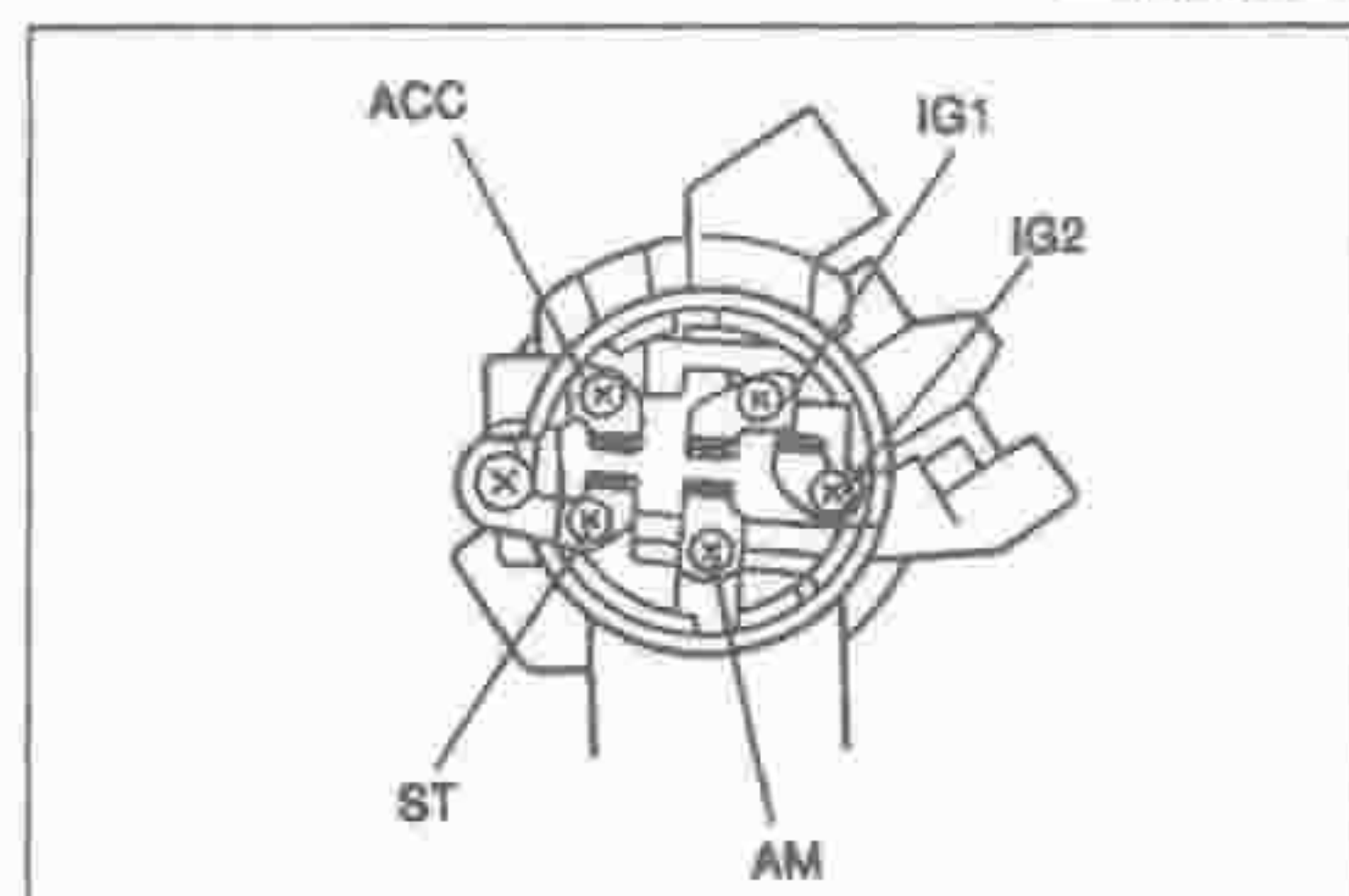
1. Disconnect the battery cable from the negative terminal of the battery.
2. Remove steering column lower cover.
3. Disconnect the wire harness connector of the ignition switch.
4. Remove the ignition switch unit from the ignition key assembly by removing the screw.
5. Ensure that continuity exists between the respective terminals as indicated in the continuity table.

Continuity table of ignition switch

	AM	ACC	IG ₁	IG ₂	ST
LOCK					
ACC	○	○			
ON	○	○	○	○	
START	○	○	○	○	○



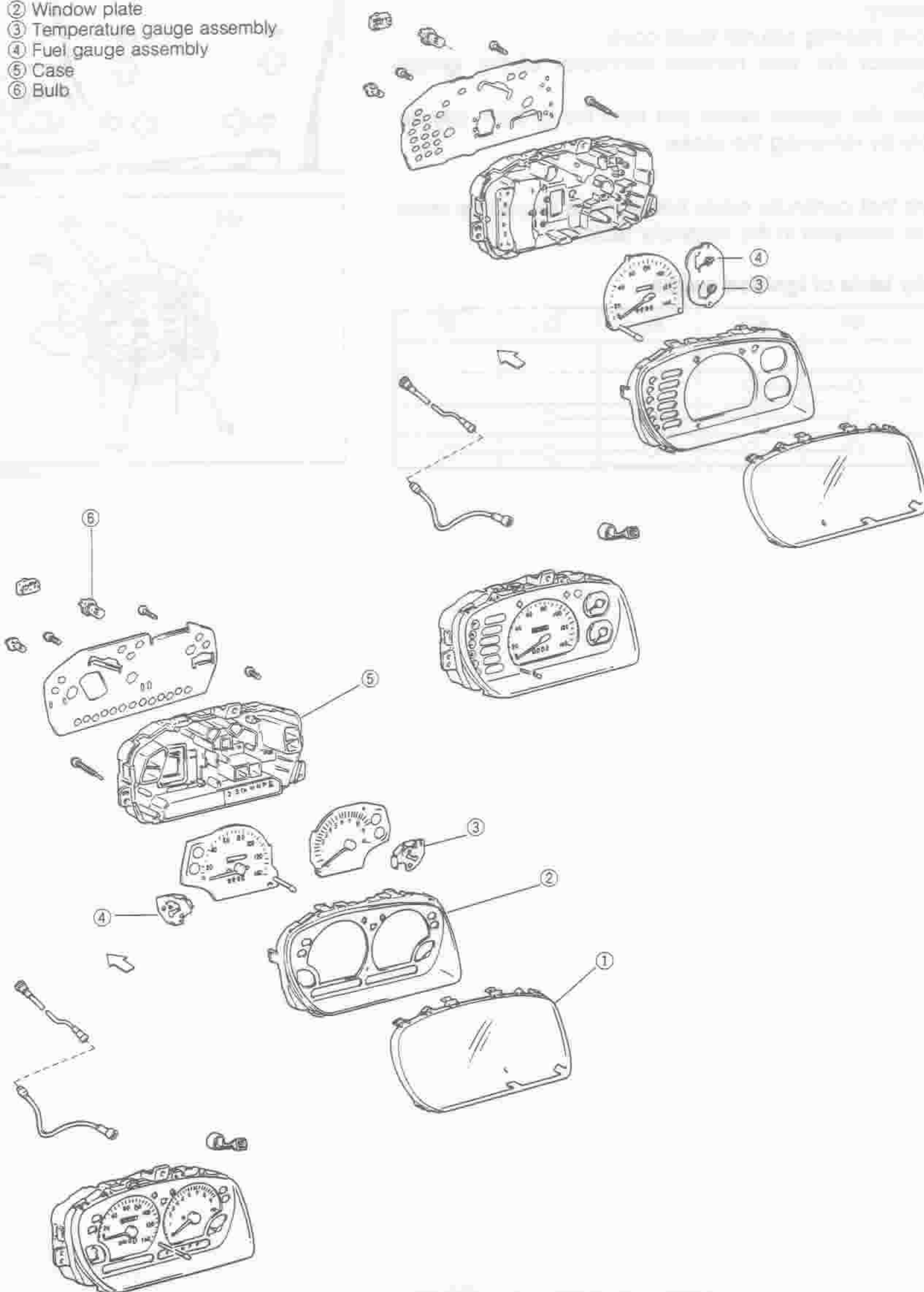
LBE00028-00201

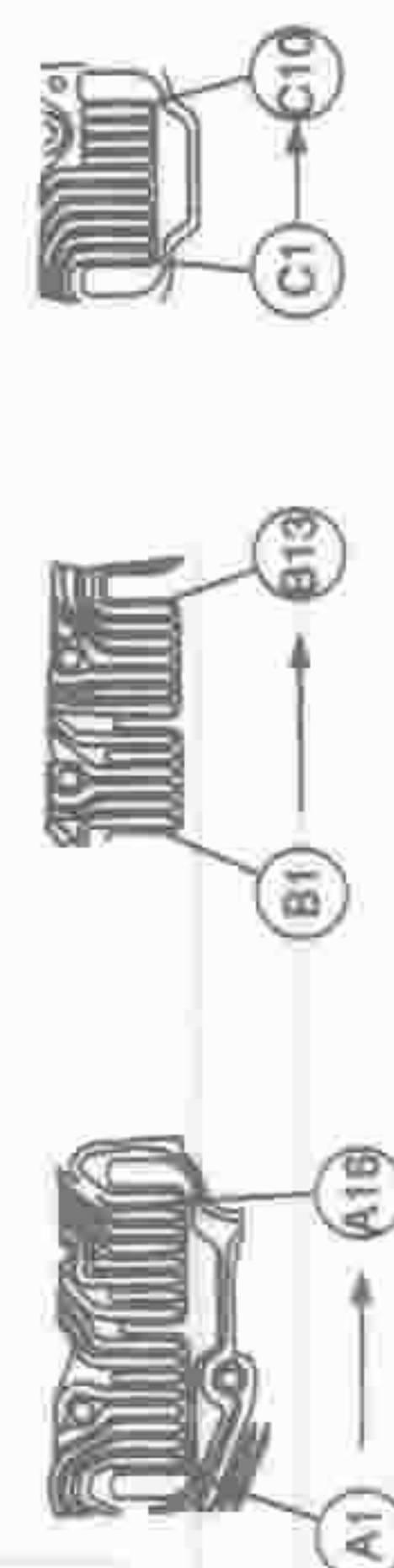
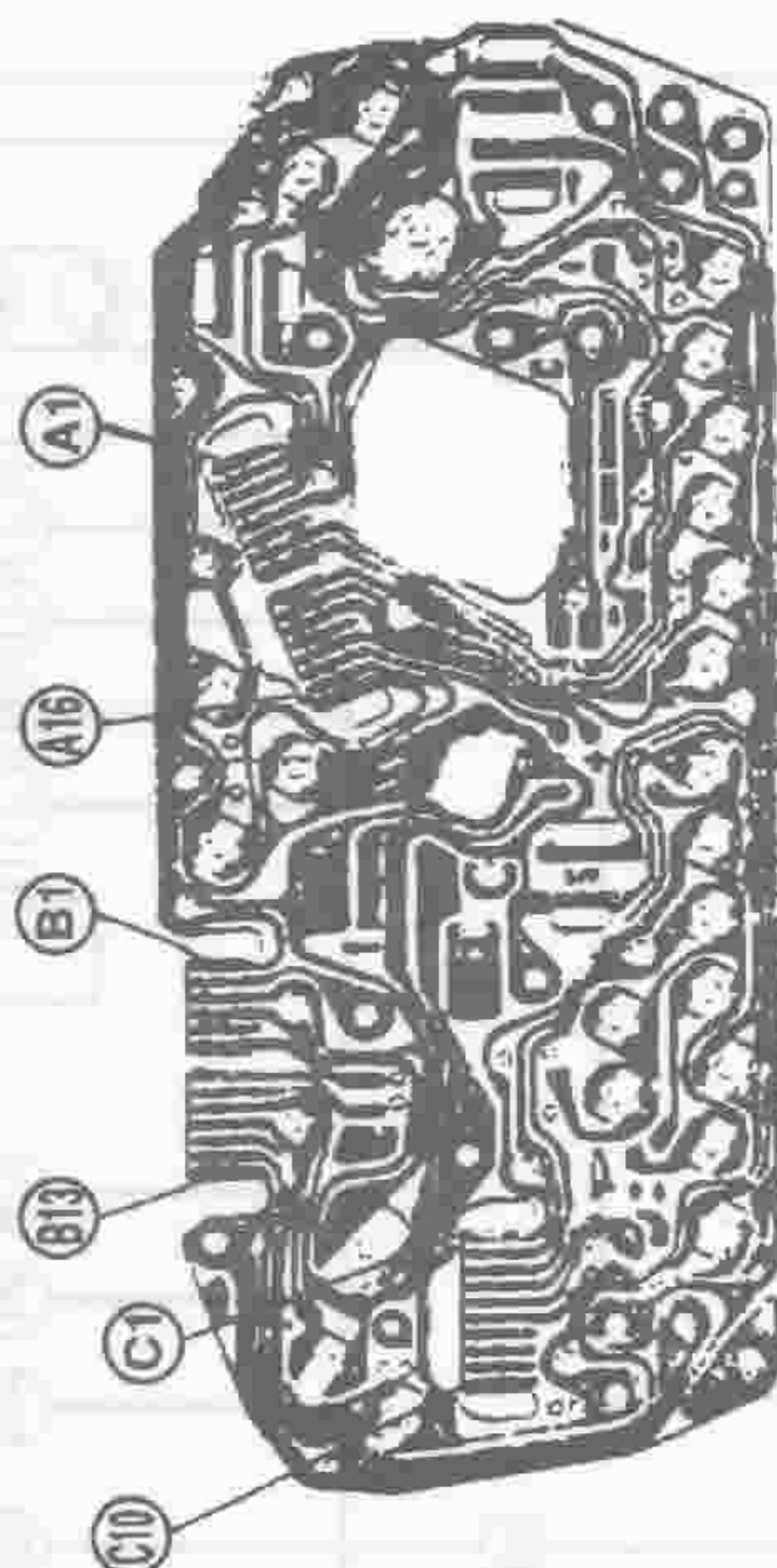
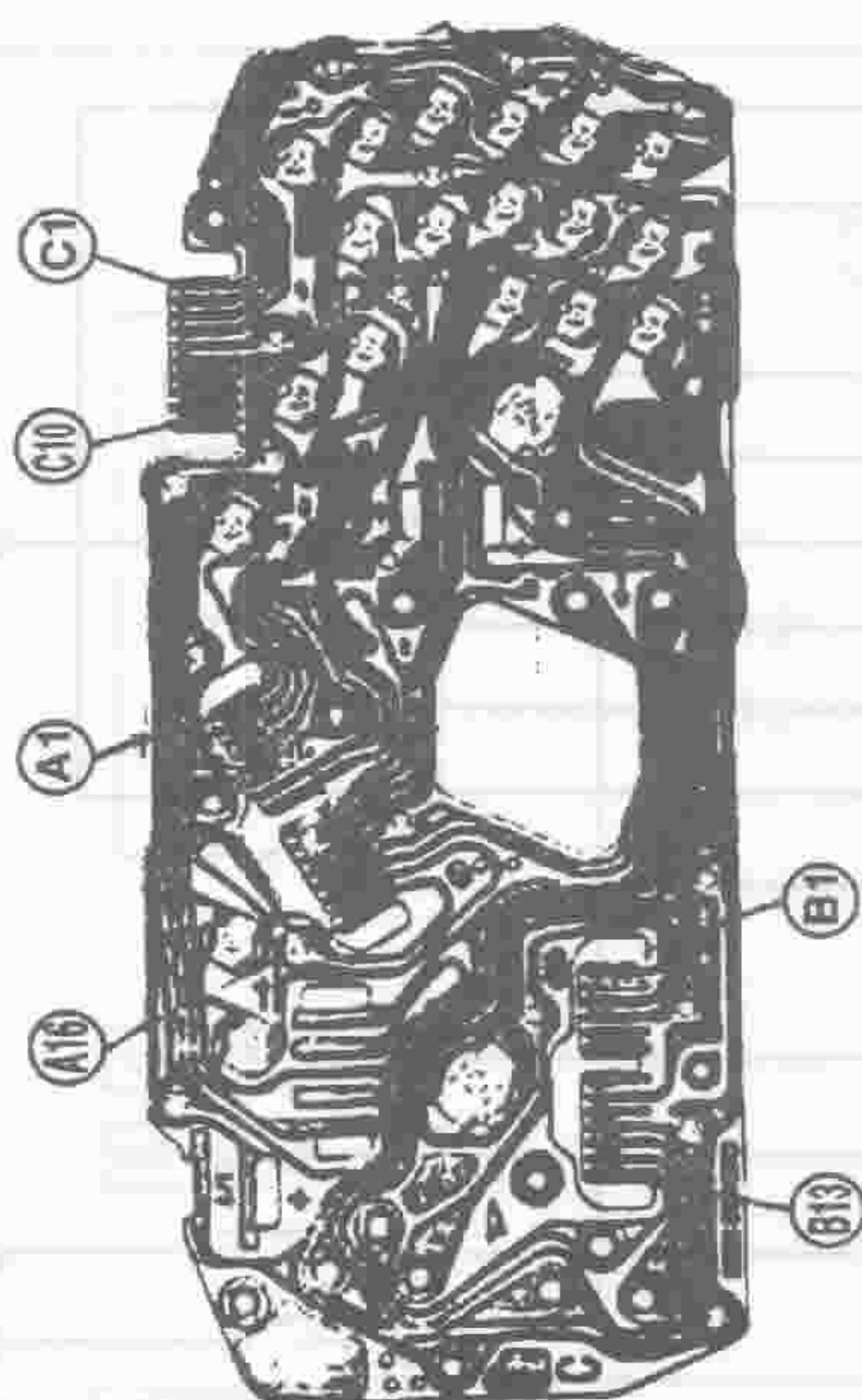


LBE00029-00202

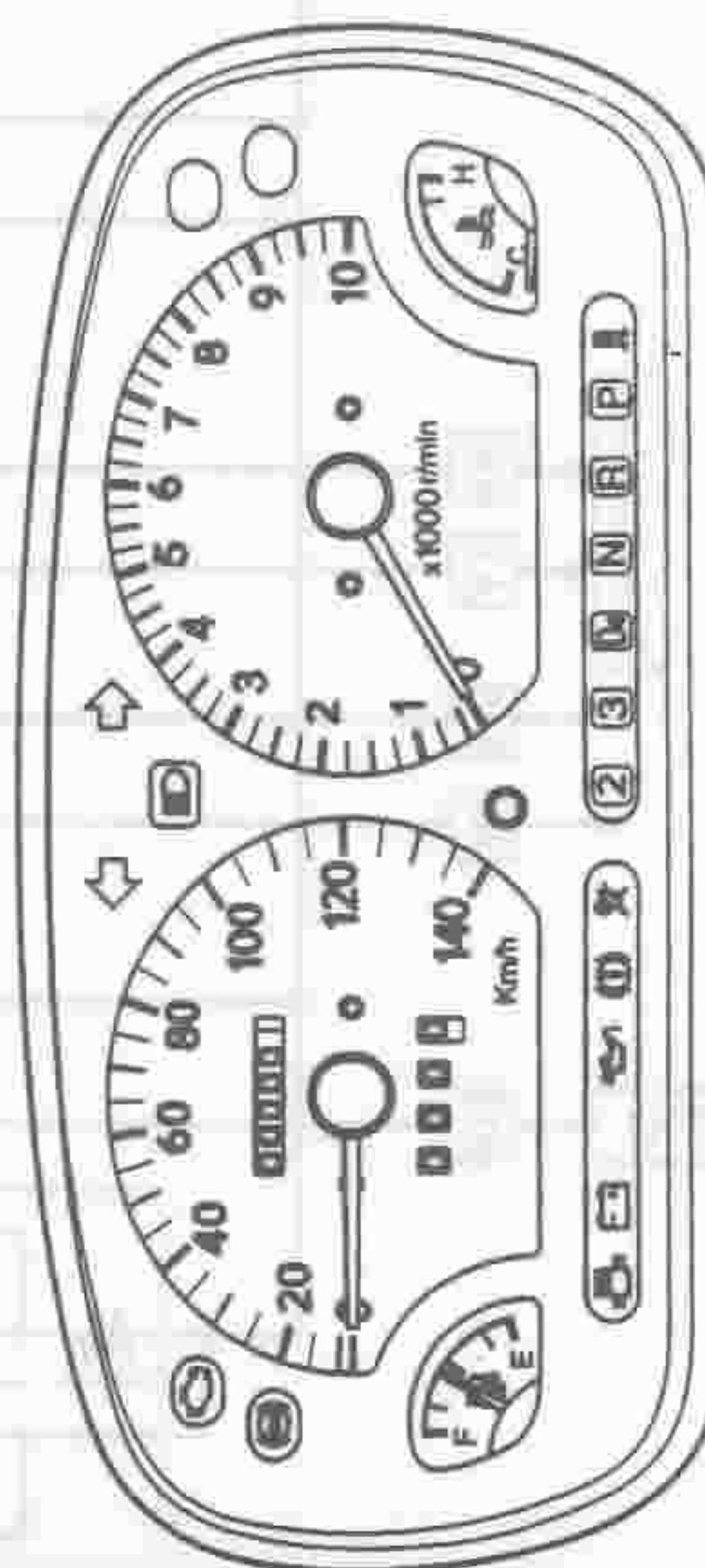
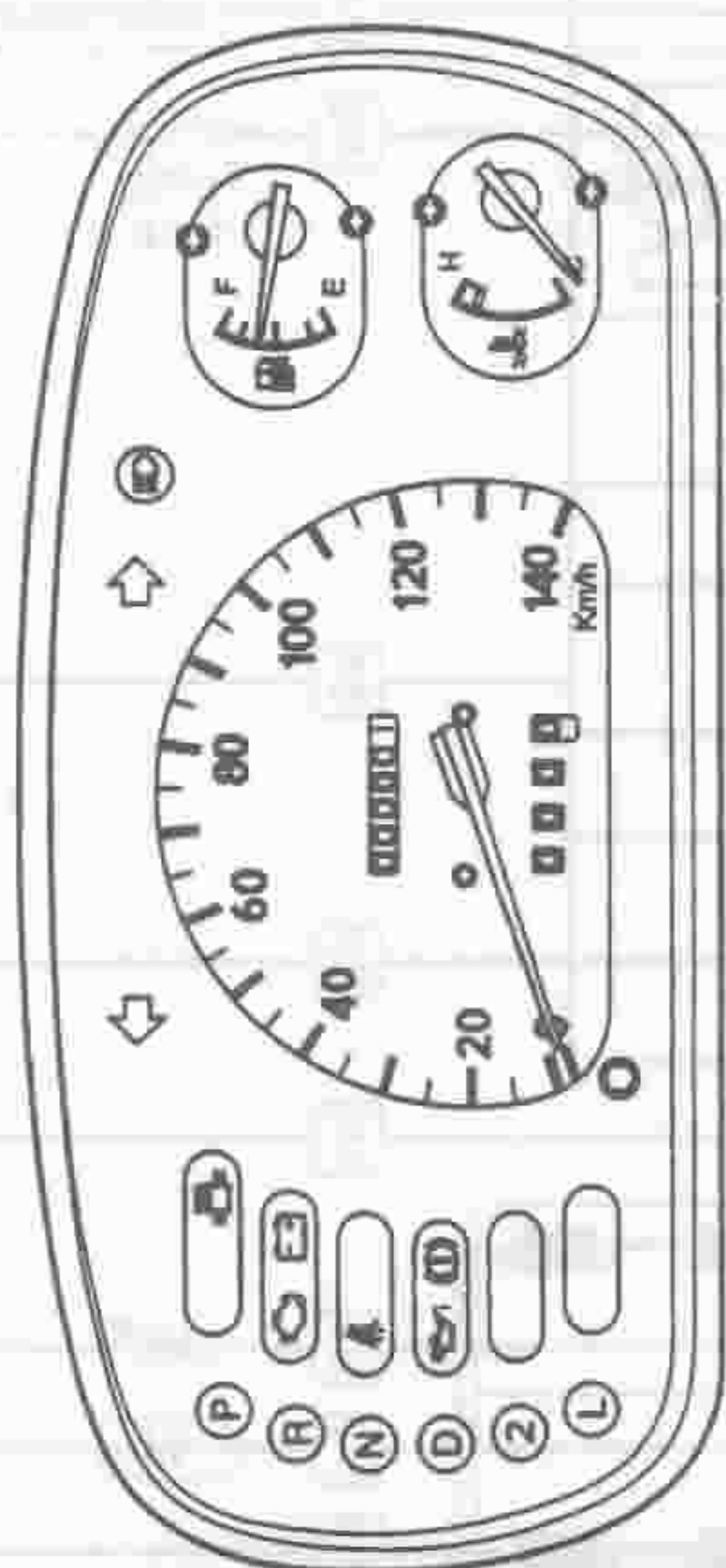
03 COMBINATION METER

- ① Front glass
- ② Window plate
- ③ Temperature gauge assembly
- ④ Fuel gauge assembly
- ⑤ Case
- ⑥ Bulb

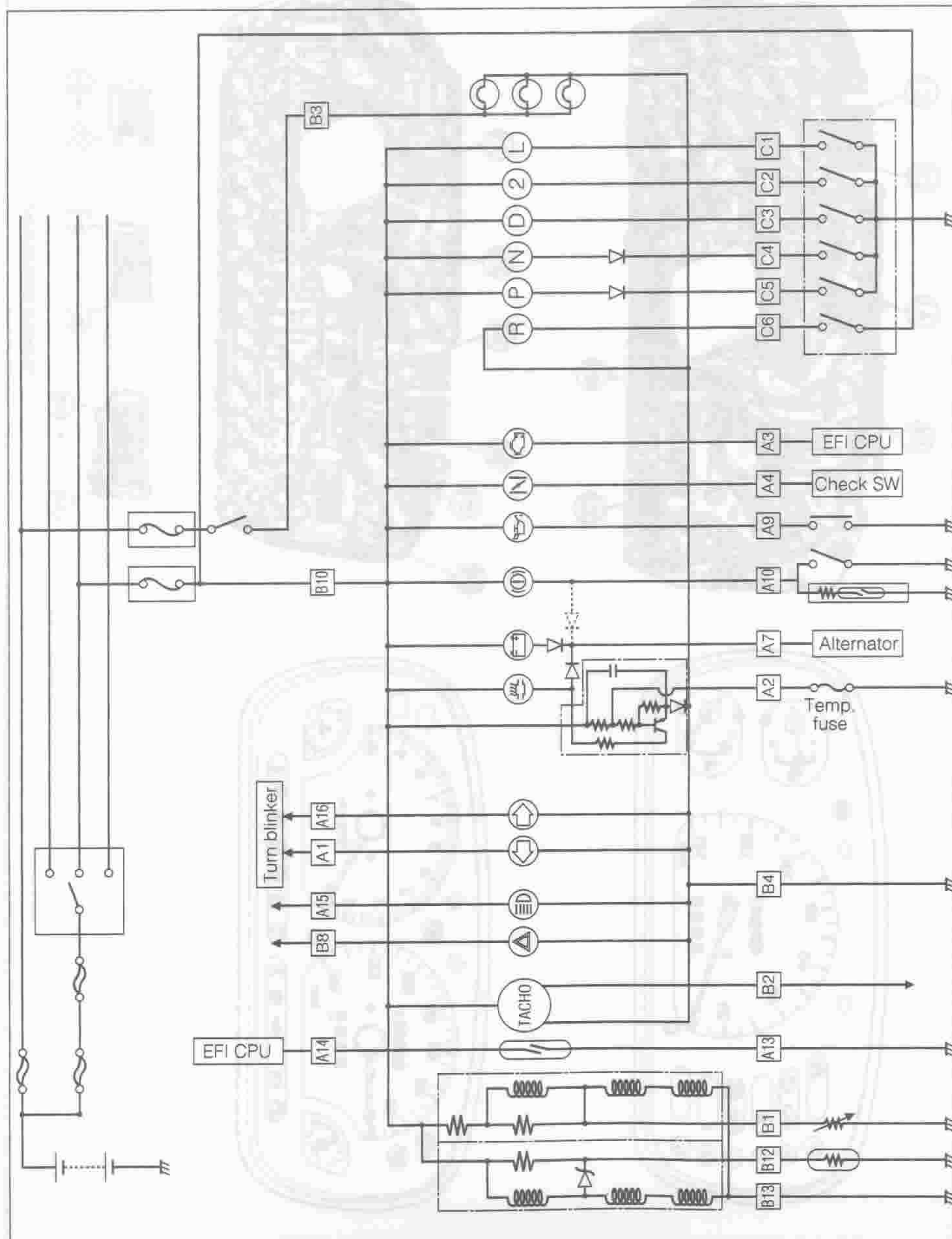




Terminal arrangement



WIRING DIAGRAM



GAUGES

FUEL GAUGE

Description of circuit

The fuel gauge circuit consists of the fuel gauge and the sending unit in the fuel tank.

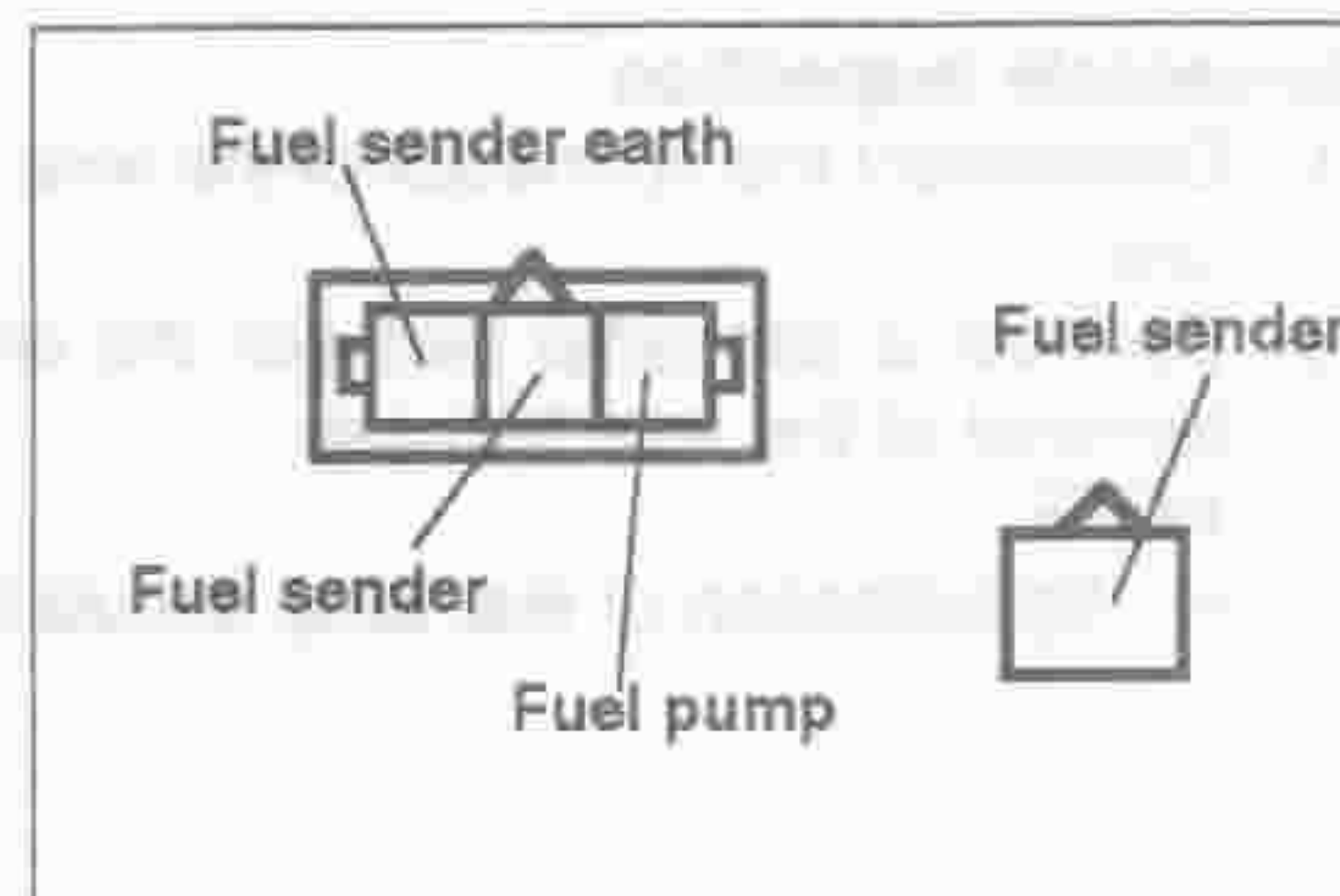
Current flowing through the gauge coil is varied to control the movement of the gauge pointer. When the fuel tank is full, the sending unit resistance is decreased allowing more current flow into the gauge coil causing the pointer to move to the full position.

Even after the ignition switch is turned off, the pointer will not return down to the empty position completely. This does not mean that the gauge is malfunctioning. The pointer-remaining type gauge is slightly slow in the movement of the pointer.

LBE00032-00000

In-vehicle inspection

1. Remove the rear seat cushion.
2. Disconnect the connector of the wire harness of the sender gauge assembly.
3. Under this condition, turn ON the ignition switch. Ensure that the pointer of the fuel gauge returns to the position "E."



LBE00033-00305

4. Turn OFF the ignition switch. Connect a test wire between the terminals of fuel sender and fuel sender earth (or body earth) at the wire cowl harness side.

CAUTION:

- Never connect the terminal of fuel pump with earth.

5. Under this condition, turn ON the ignition switch. Ensure that the pointer of fuel gauge rises gradually and resisters the position "F."

If not, check the wire harness and/or remove the fuel gauge to check it.

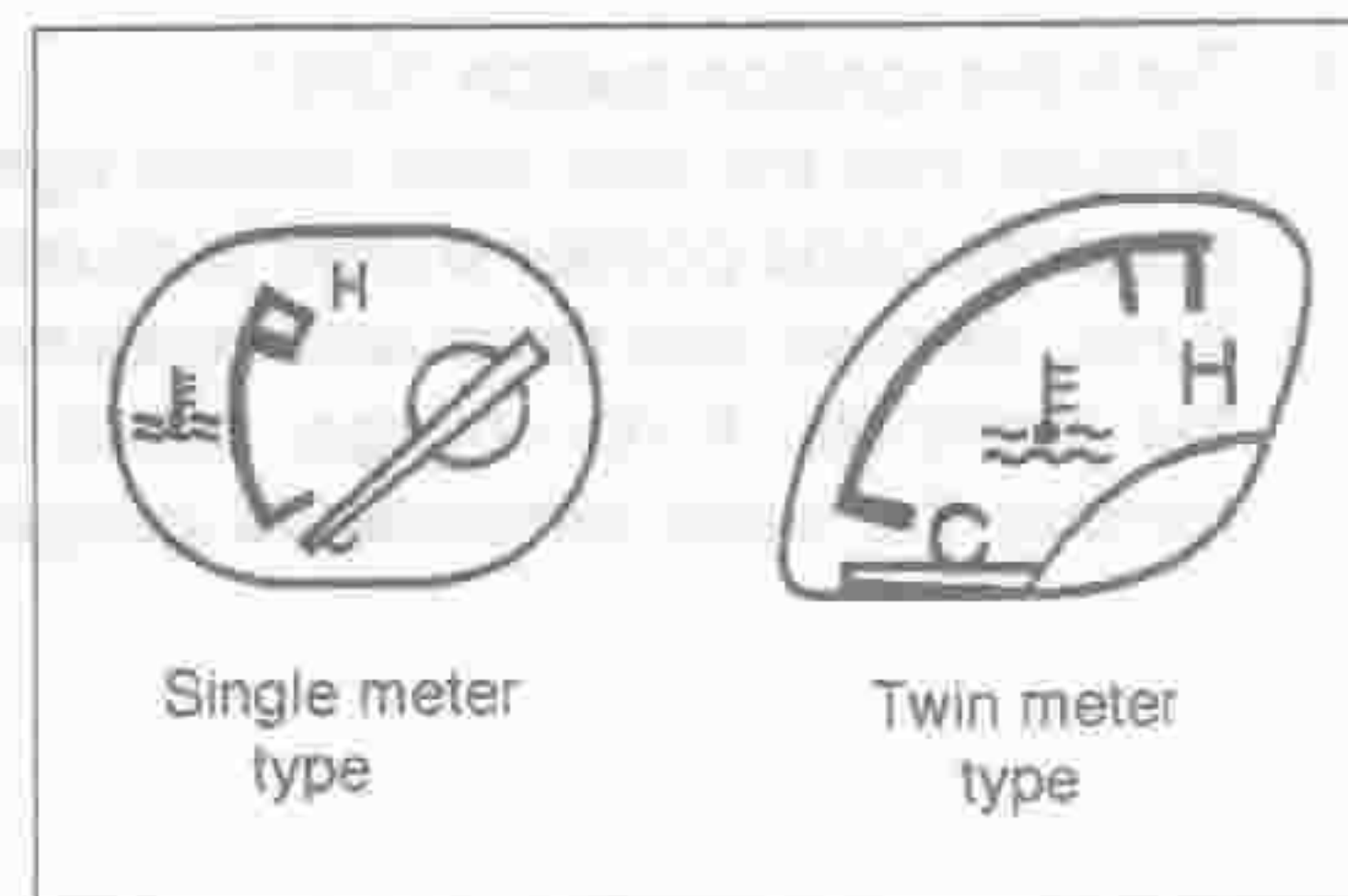
6. Turn OFF the Ignition switch. Ensure that the pointer of the fuel gauge remains stationary and resisters the position "F."

7. Measure the resistance between the respective terminals.

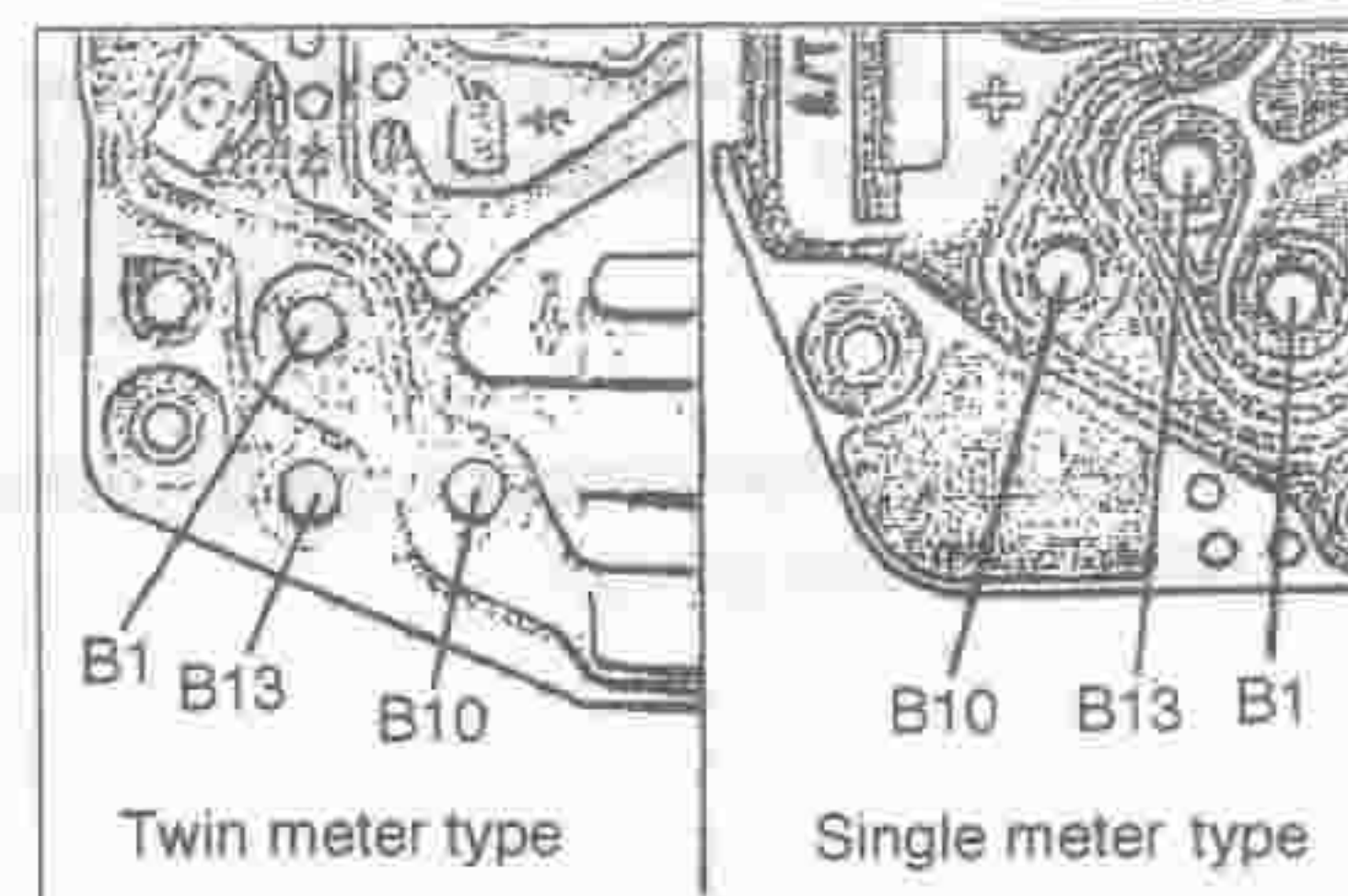
Specified Resistance: B1 – B10 Approx. 70 Ω

B1 – B13 Approx. 100 Ω

8. If the fuel gauge does not meet specifications, replace gauge.



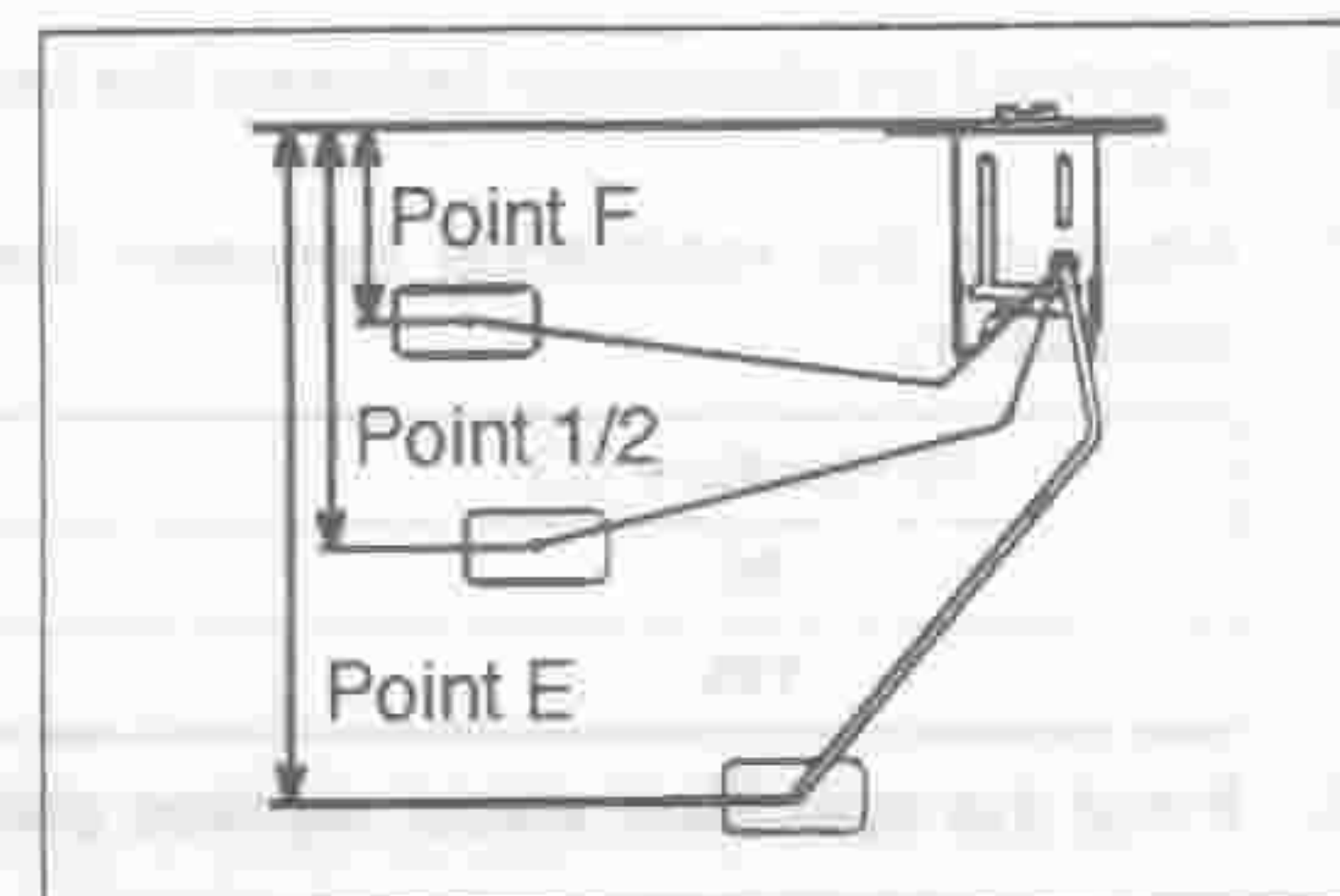
LBE00034-00306



LBE00035-00307

9. Connect an ohmmeter between the terminals of the fuel sending unit.
10. If the sending unit does not meet specifications, replace unit. (Refer to BO section)

Float position	Resistance (Ω)
F	3 ± 2
1/2	32 ± 2
E	110 ± 7



LBE00036-00308

WATER TEMPERATURE GAUGE

Description of circuit

The water temperature gauge circuit consists of the temperature gage installed in the combination meter and the sending unit installed in the water outlet of the cylinder head.

The sending unit shows different resistance values depending on the coolant temperature. This causes the current flowing through the temperature gauge coil to change, controlling the gauge pointer. When the coolant temperature increases, the sending unit resistance decreases with more current flowing through the gauge coil, raising the gauge pointer upward from the lower position.

When the engine switch is turned off, the returning of the gauge pointer to the zero-position is carried out by the locating magnet.

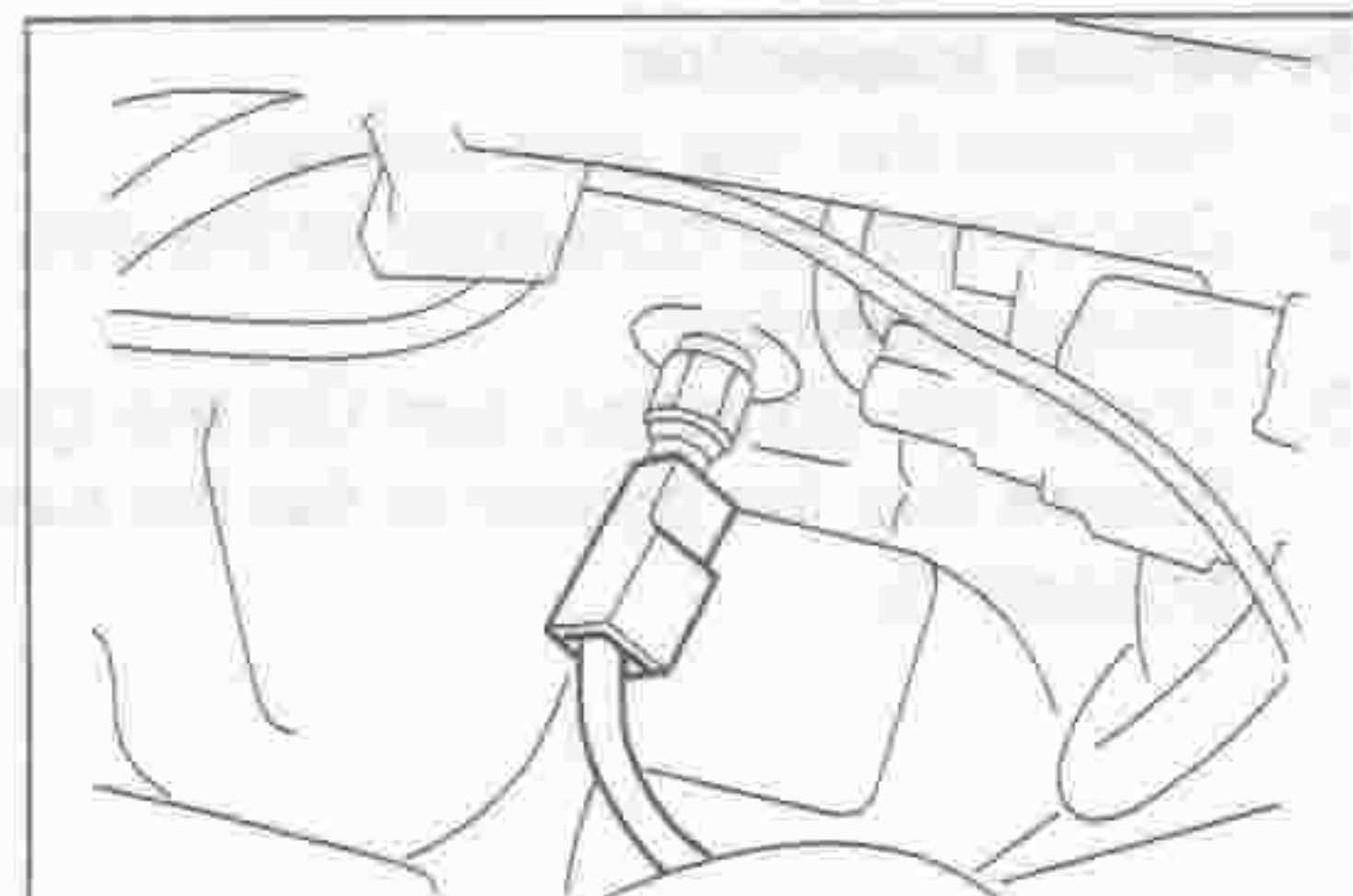
LBE00037-00000

In-vehicle inspection

1. Disconnect the connector of the wire harness of the sender unit.
2. Connect a test lamp between the engine ground and the terminal of the wire harness.

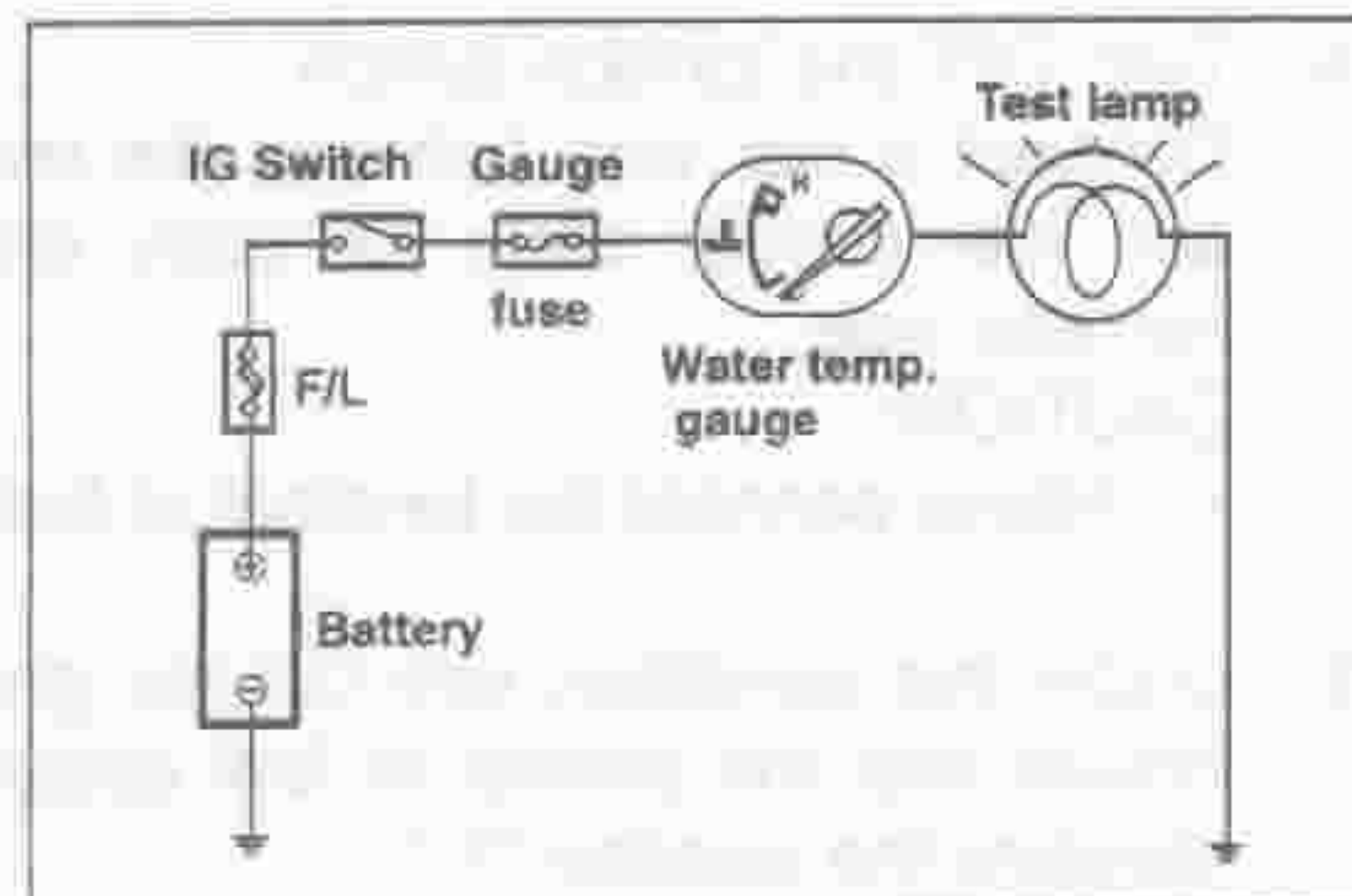
NOTE:

- Specification of test lamp should be 12 volts, 3.4 W.



LBE00038-00310

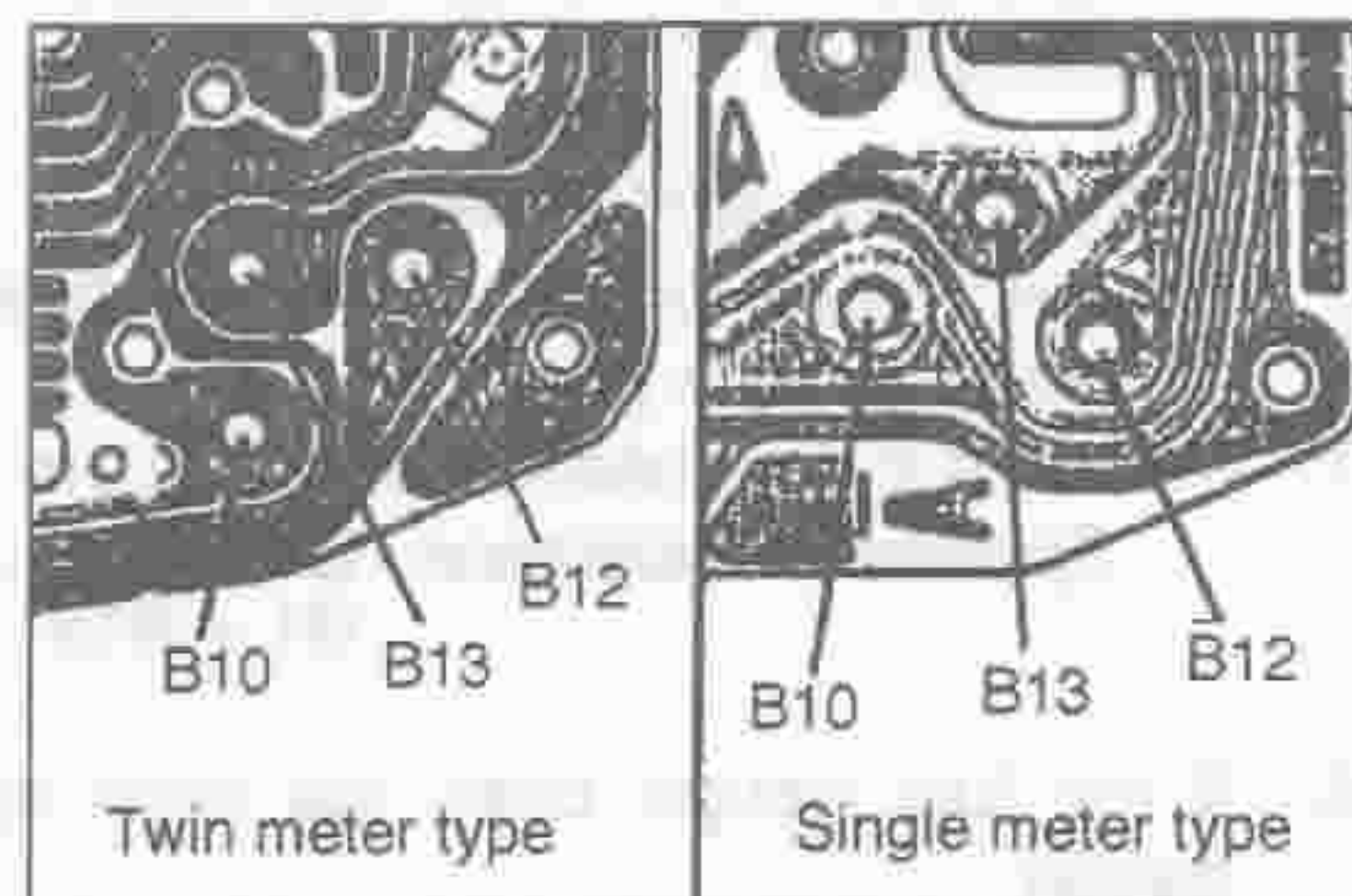
3. Turn the ignition switch "ON."
Ensure that the test bulb should light and the water temperature gauge pointer should fluctuate after a few seconds. If not, remove test lamp and measure the voltage between the terminals. If no voltage, check the wire harness and remove the water temperature gauge to check it.



LBE00039-00311

4. Measure the resistance between the respective terminals.
Specified Resistance: B12 B10 Approx. 54 Ω
B12 B13 Approx. 160 Ω
B10 B13 Approx. 106 Ω

5. If the water temperature gauge does not meet specifications, replace gauge.

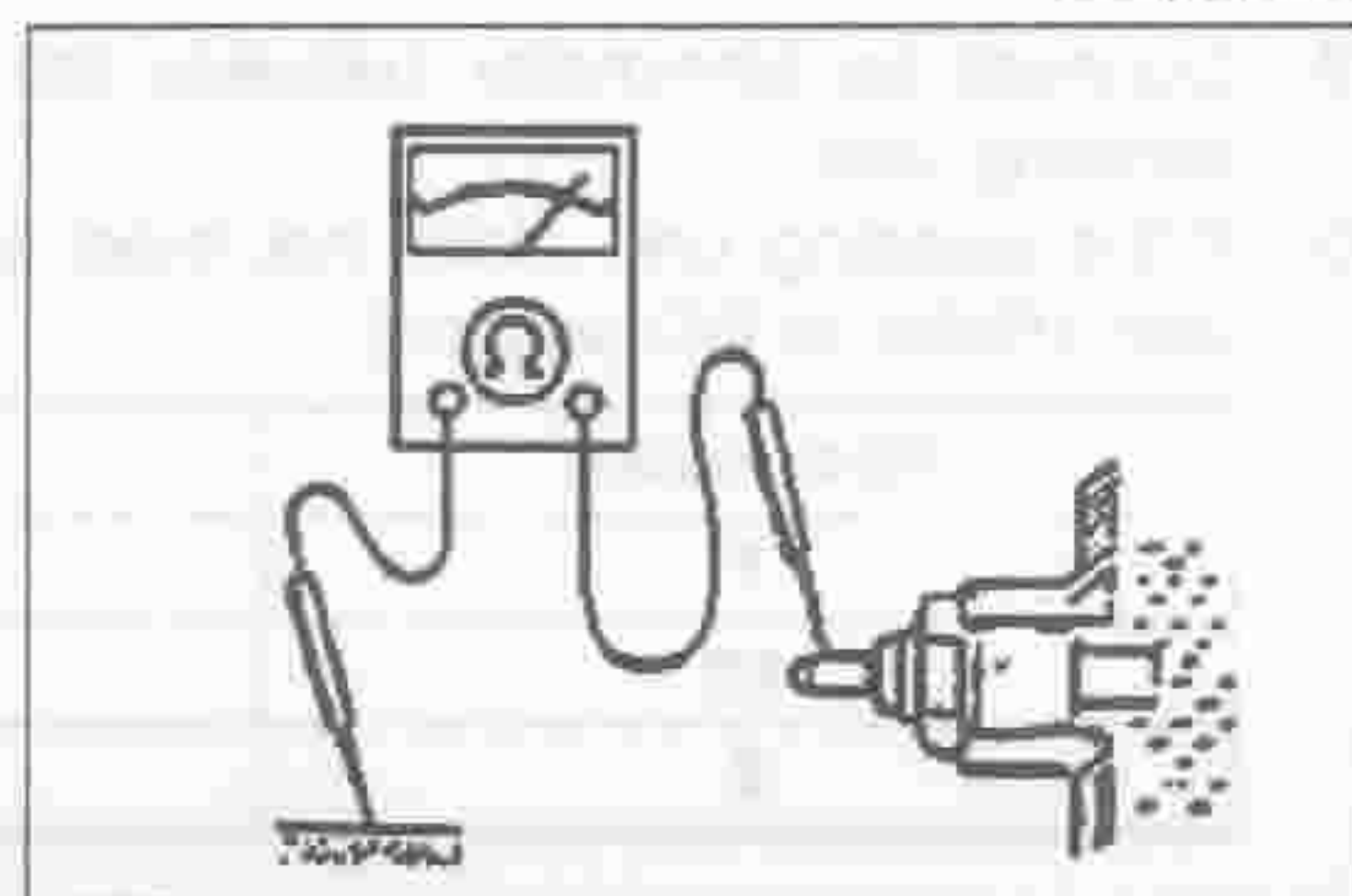


LBE00040-00312

6. Connect an ohmmeter between the terminals of the sending unit.
7. Measure the resistance between the terminals as in the illustration.

Temperature (C)	Resistance (Ω)
50	190 - 260
115	24 - 28

8. If not the specified value, replace sender unit.



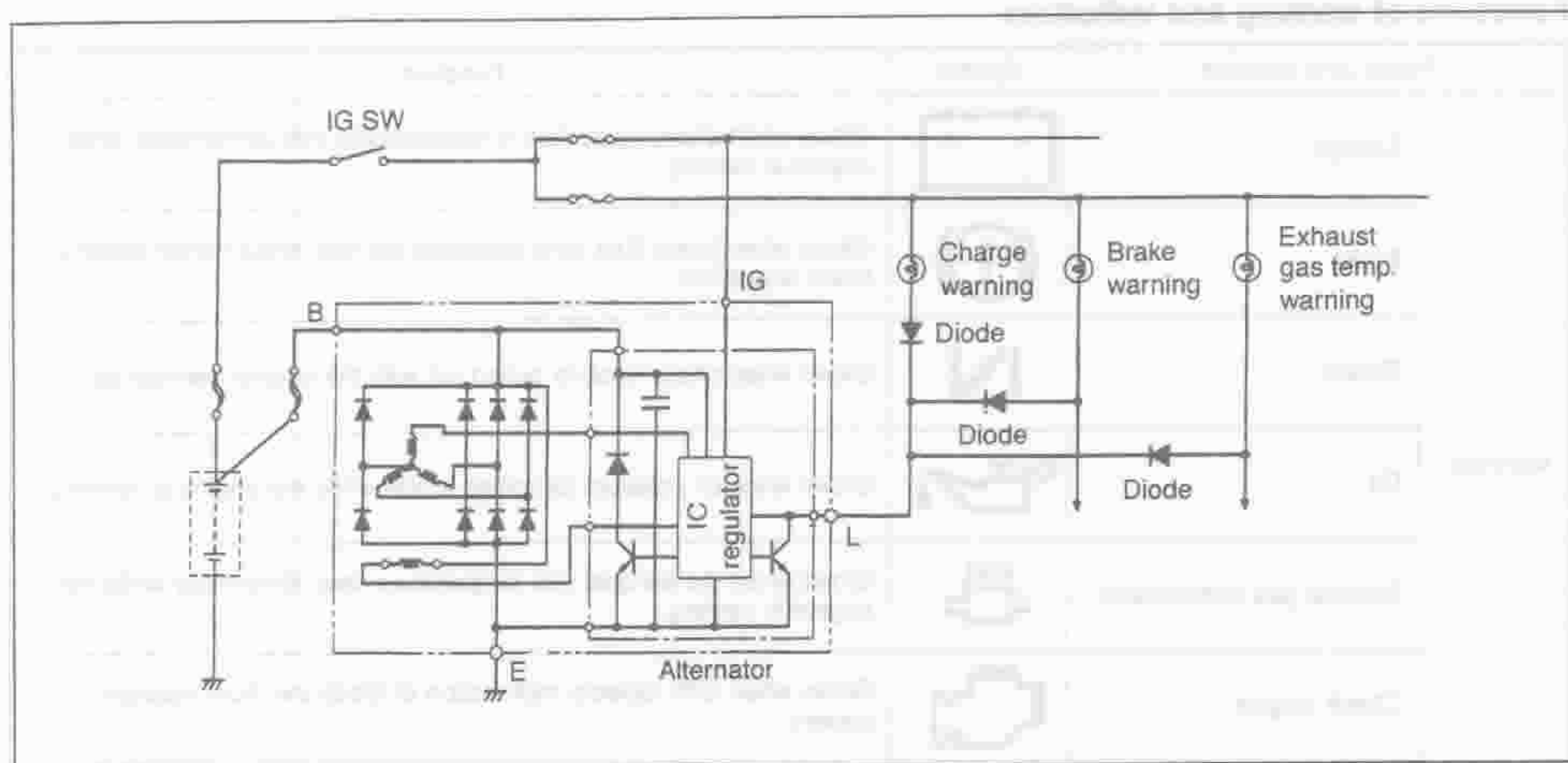
LBE00041-00313

WARNING & INDICATOR

Functions of warning and indicators

Name and purpose		Symbol	Function
Warning	Charge		Glow when charging system is encountered with abnormality while engine is running.
	Brake		Glow when brake fluid level becomes too low, and/or when parking brake is applied.
	Choke		Glow when choke knob is pulled out with the engine warmed up.
	Oil		Glow when oil pressure becomes too low while the engine is running.
	Exhaust gas temperature		Glow when the exhaust gas temperature rises abnormally while the engine is running.
	Check engine		Glow when CPU detects malfunction of Electronic Fuel Injection system.
	Hazard		Blinks when hazard switch is turned on.
Indicator	High beam		Glow when upper beams of headlamps are turned on.
	Turn signal		Flashes when signal switch of hazard warning switch is turned on.
	Rear window defogger		Glow when rear window defogger switch is turned on.

LBE00042-00314

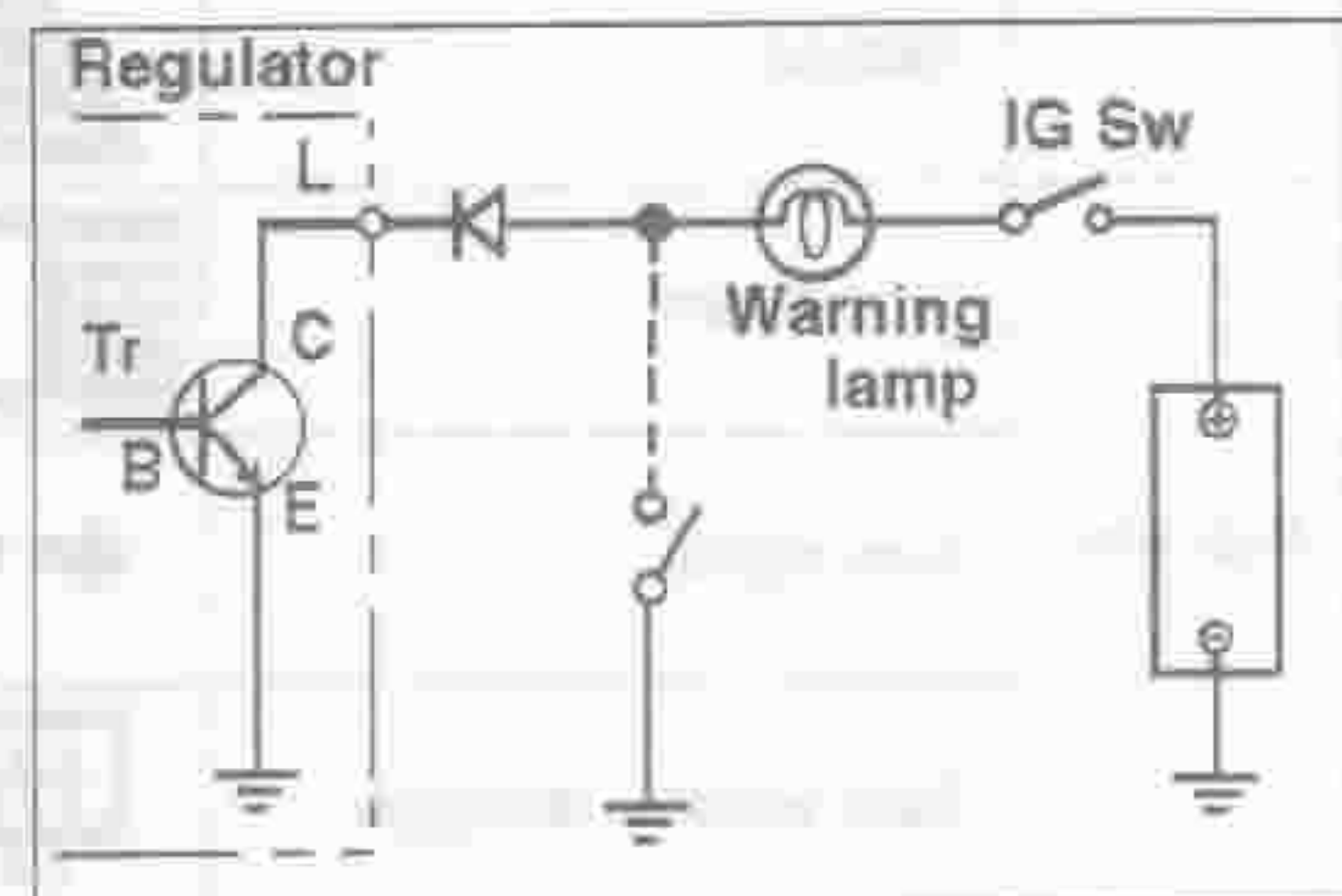


LBE00043-00315

Description of circuit

The charge warning circuit consists of a voltage regulator and a transistor that are built inside the alternator, a warning lamp located inside the combination meter and a diode for preventing reverse current flow. The transistor is provided to make the warning lamp to flash. The base of the transistor is connected with the voltage regulator. Furthermore, the collector of the transistor is connected with the terminal L of the alternator; the emitter, with the ground.

Now, when the generating voltage of the alternator becomes higher than the terminal voltage of the battery after the engine has started, the charging to the battery starts to take place. Then, the voltage regulator lowers the base potential of the transistor, thereby shutting off the current between the collector and the emitter. As a result, the current flowing through the warning lamp is reduced. Finally, the charge warning goes out.



LBE00044-00316

Warning lamp bulb burnt out check system

The check of the warning lamp for bulb burnt-out state is carried out as follows:

When the ignition switch is turned ON, the alternator is not generating any current, for at this stage the engine has not started yet. Under this state, the voltage regulator makes the base potential of the transistor higher.

Consequently, the state between the collector and the emitter becomes conductive, thus allowing a current to flow from the battery to the warning lamp. Therefore, the warning lamp goes out, when the bulb is not burnt out.

This system for checking burnt-out bulb of the warning lamp is used in common for other warning systems. Hence, the diode for preventing reverse current flow is provided to avoid any interference with other systems.

BRAKE WARNING

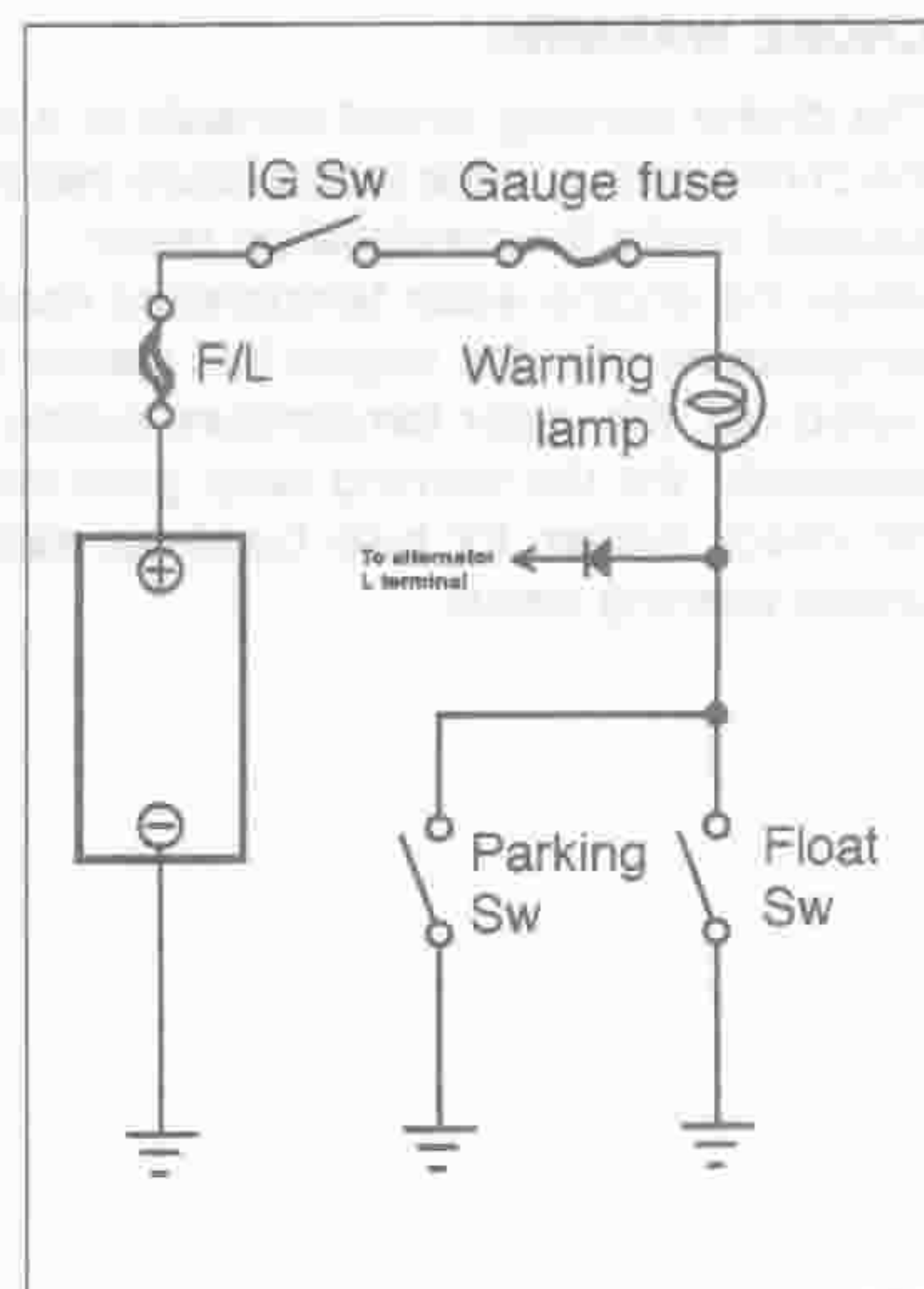
Description of circuit

The brake fluid level warning circuit consists of a brake fluid level switch provided inside the reservoir of the brake master cylinder, a warning lamp located inside the combination meter and a diode for preventing reverse current flow.

Furthermore, there are some specifications in which a parking brake warning circuit is included in the aforesaid circuit.

If the brake fluid level drops below a specified level when the ignition switch is turned ON, the brake fluid level switch is turned ON, thereby lighting the brake warning lamp. Moreover, when the parking brake lever is pulled up when the ignition switch is turned ON, a switch provided at the parking brake lever is turned ON, thereby lighting the brake warning lamp.

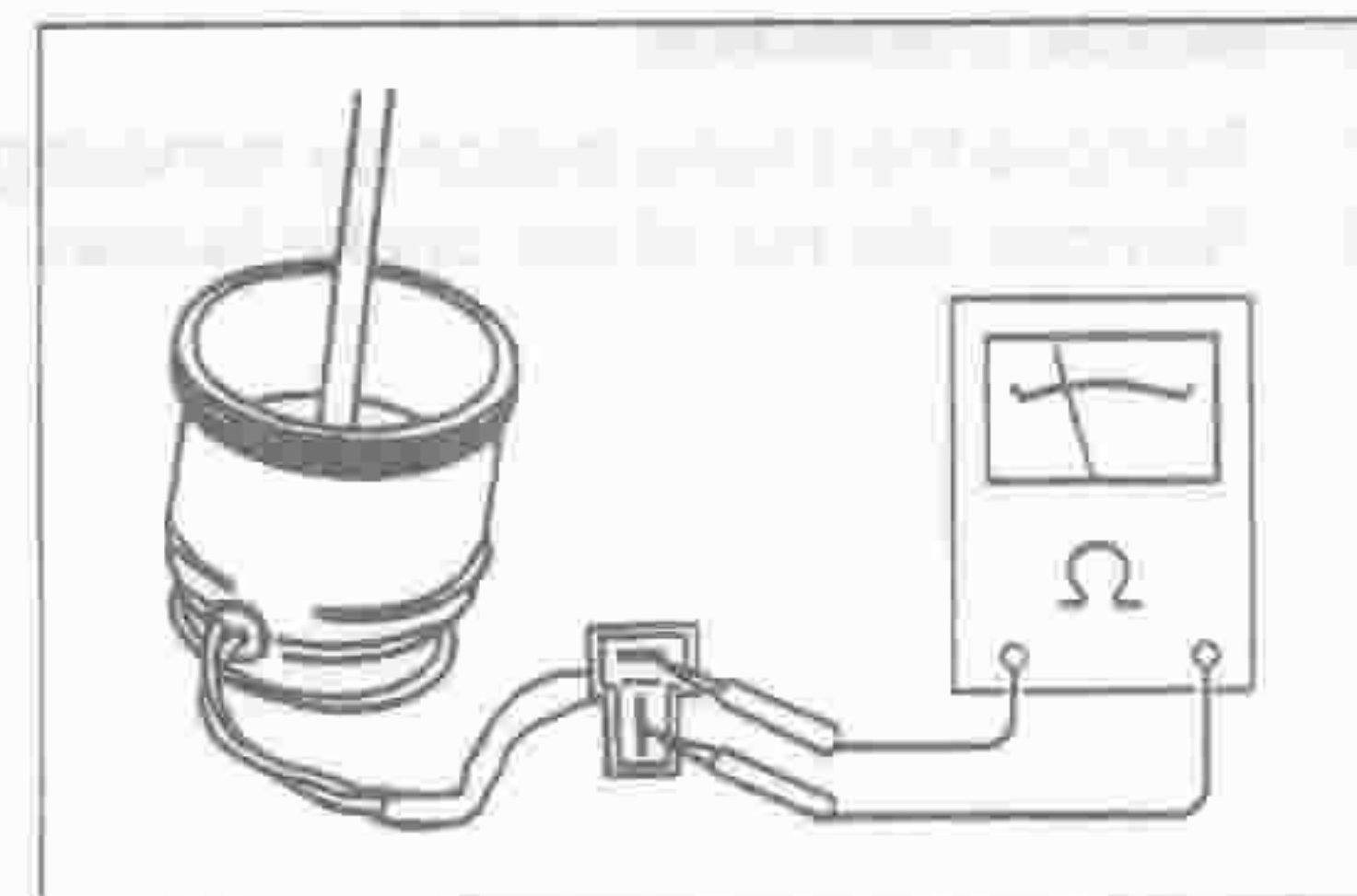
The check of the warning lamp for bulb burnt-out state is carried out in the same way as with the charging warning system.



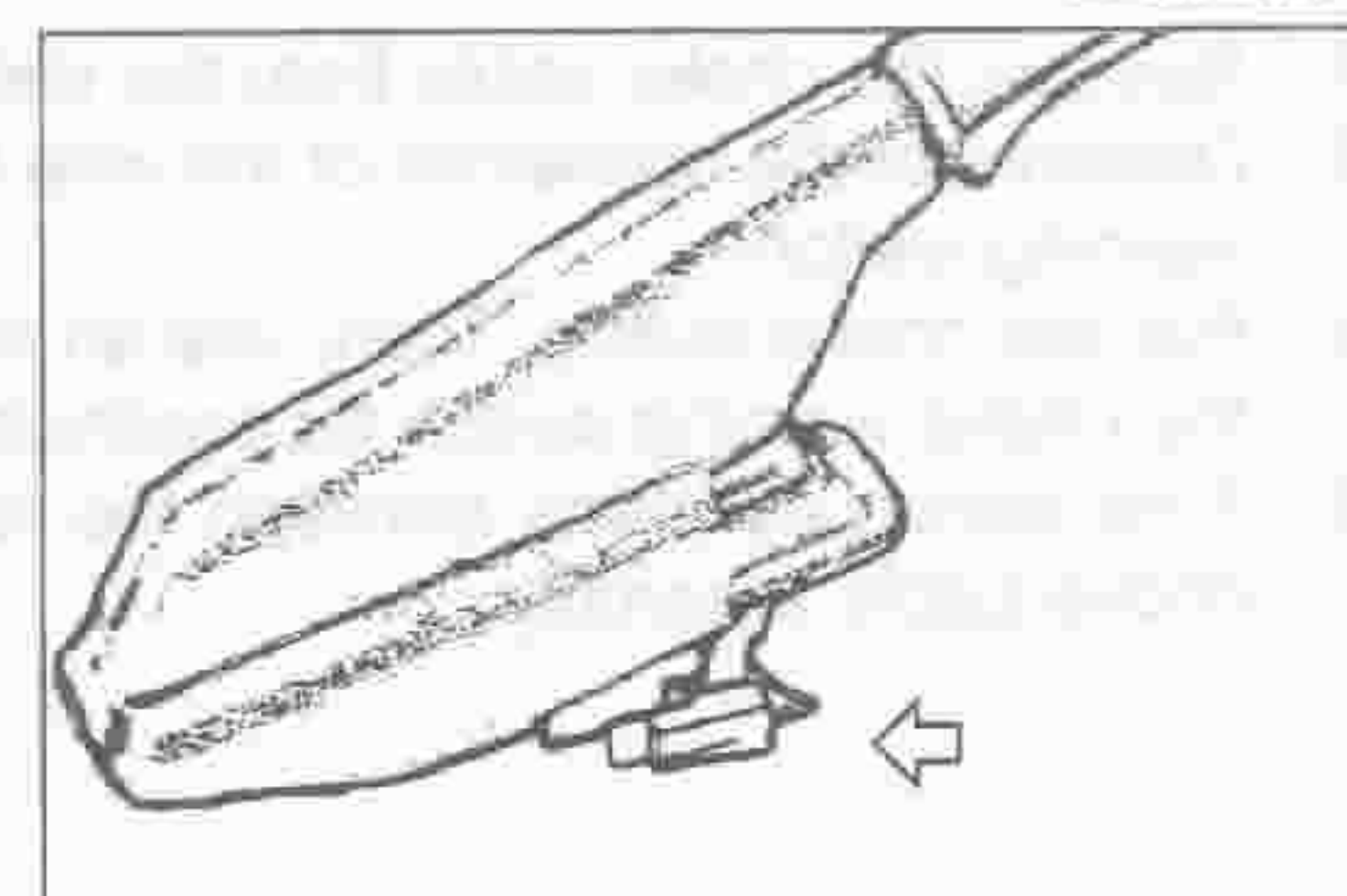
LBE00045-00317

In-vehicle inspection

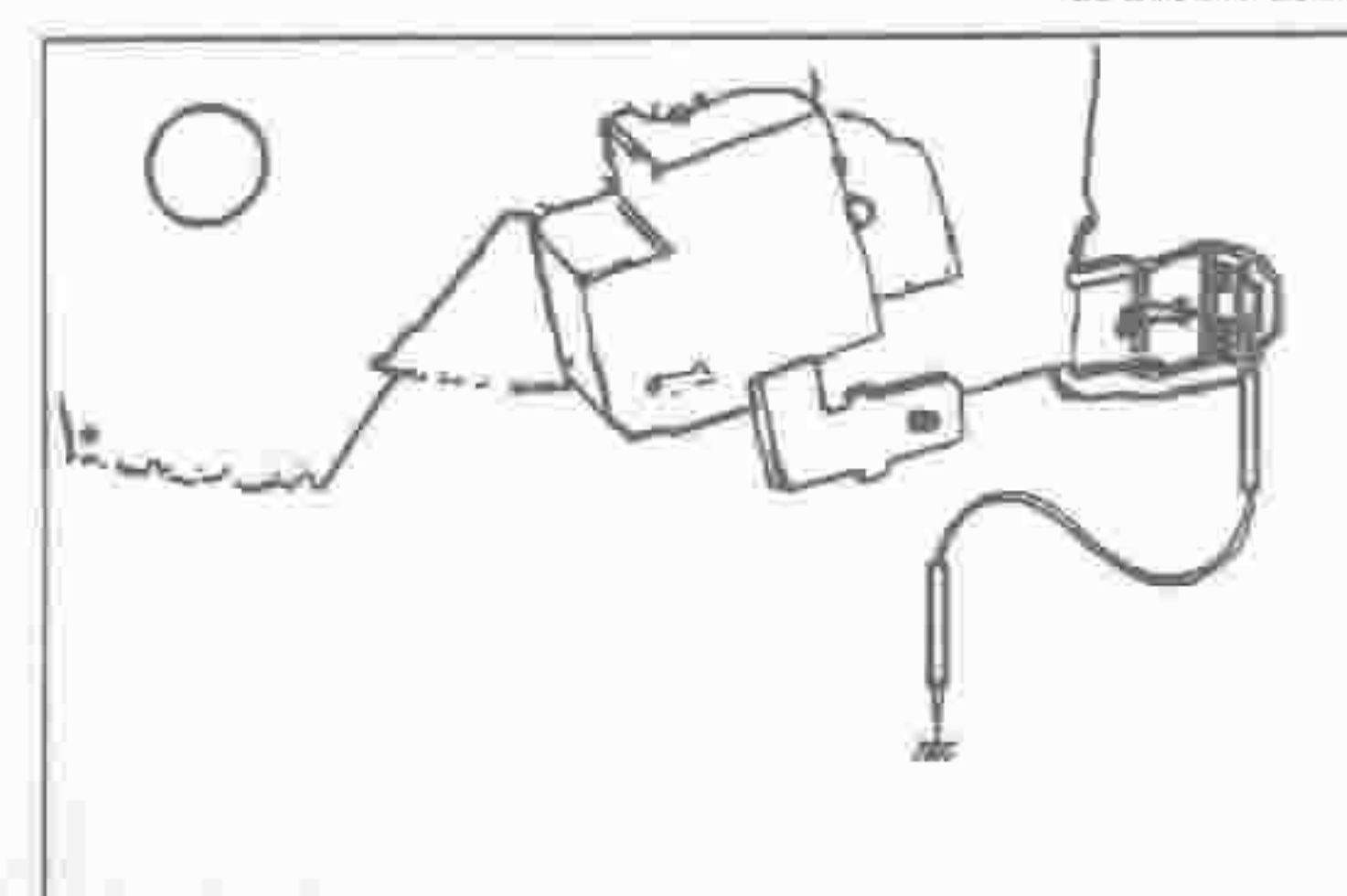
1. Disconnect the connector of the wire harness of the brake fluid level switch.
2. Sink the float with a rod. Then, use an ohmmeter to measure the brake fluid level switch for continuity.
3. If found defective, replace the brake fluid reservoir tank.
4. Turn over the rubber cover of the parking brake lever.
5. Disconnect the connector of the parking brake switch. Ground the connector at the harness side.
6. Ensure that the brake warning goes on when the ignition switch is on position.
7. If no glows warning, check the wire harness. Ensure that continuity exists between the terminal and the body earth when the parking brake lever is pulled up ward.



LBE00046-00318



LBE00047-00319



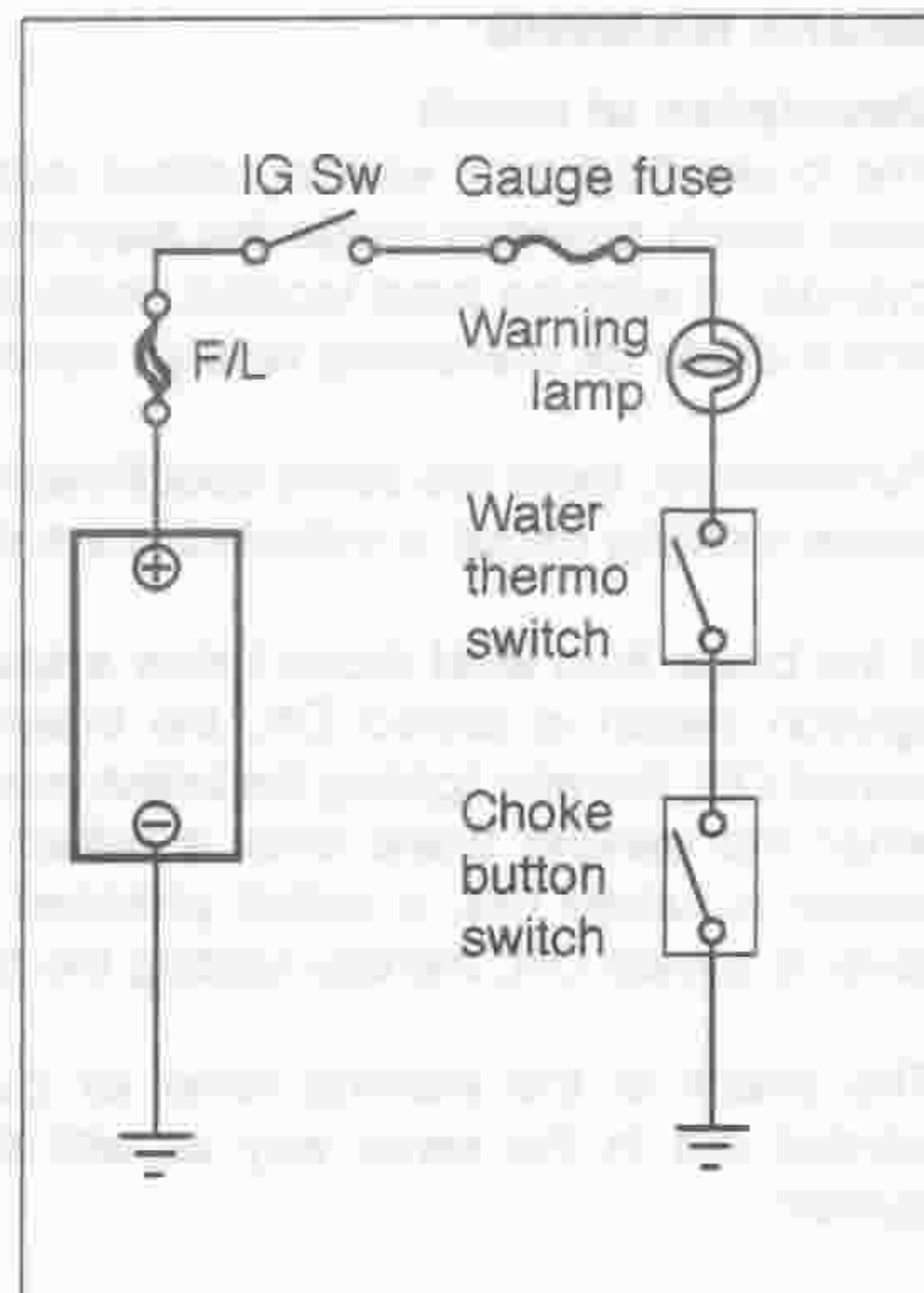
LBE00000-00320

CHOKE WARNING

The choke warning circuit consists of a switch interlinked with the choke wire, a water temperature switch and a warning lamp located inside the combination meter.

When the engine water temperature rises above the specified temperature after the engine has started with the choke button pulled out, the water temperature switch is turned OFF. Consequently, the the warning lamp goes out.

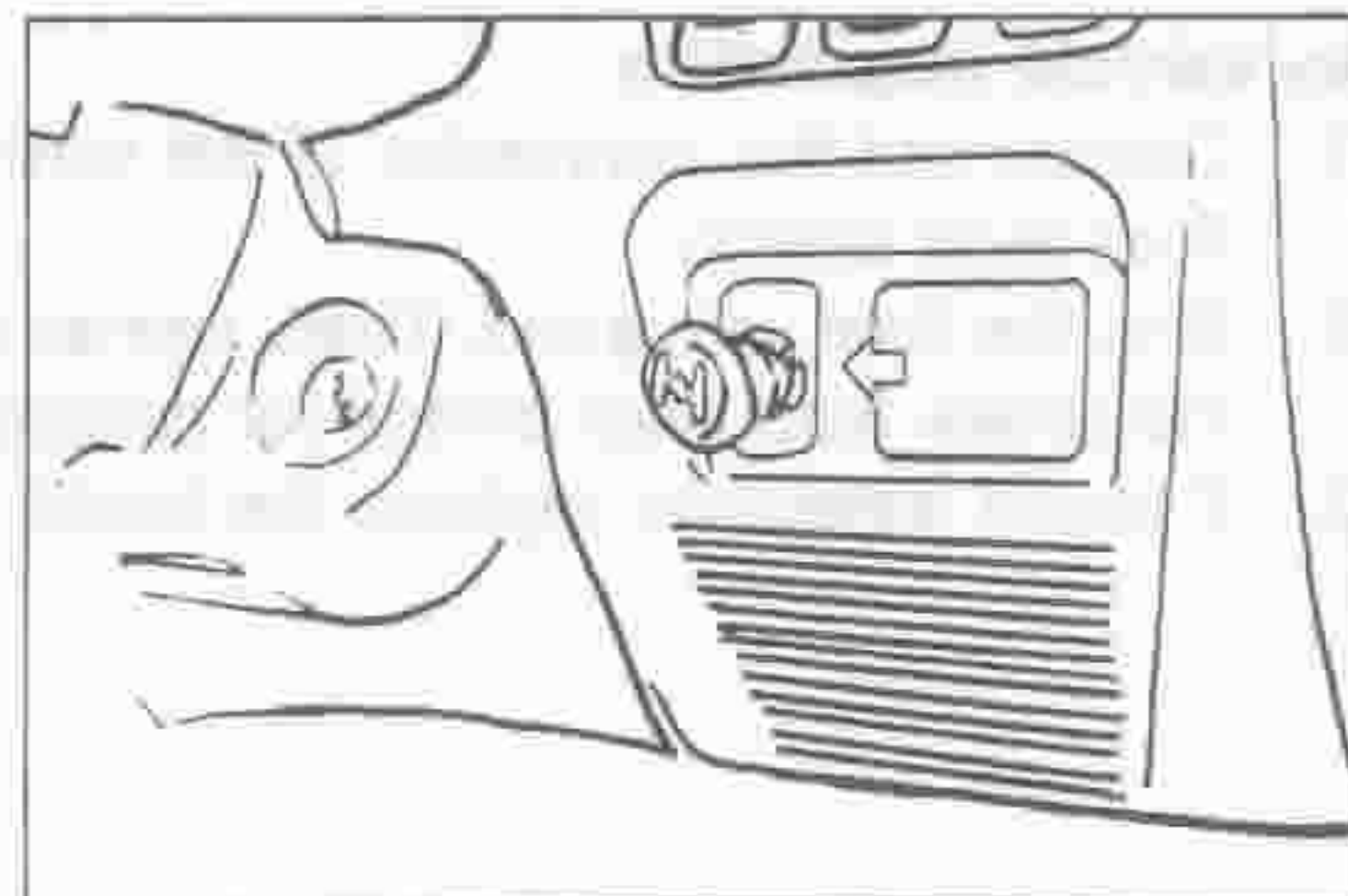
No check system for bulb burnt-out state is provided for this choke warning circuit.



LBE00048-00330

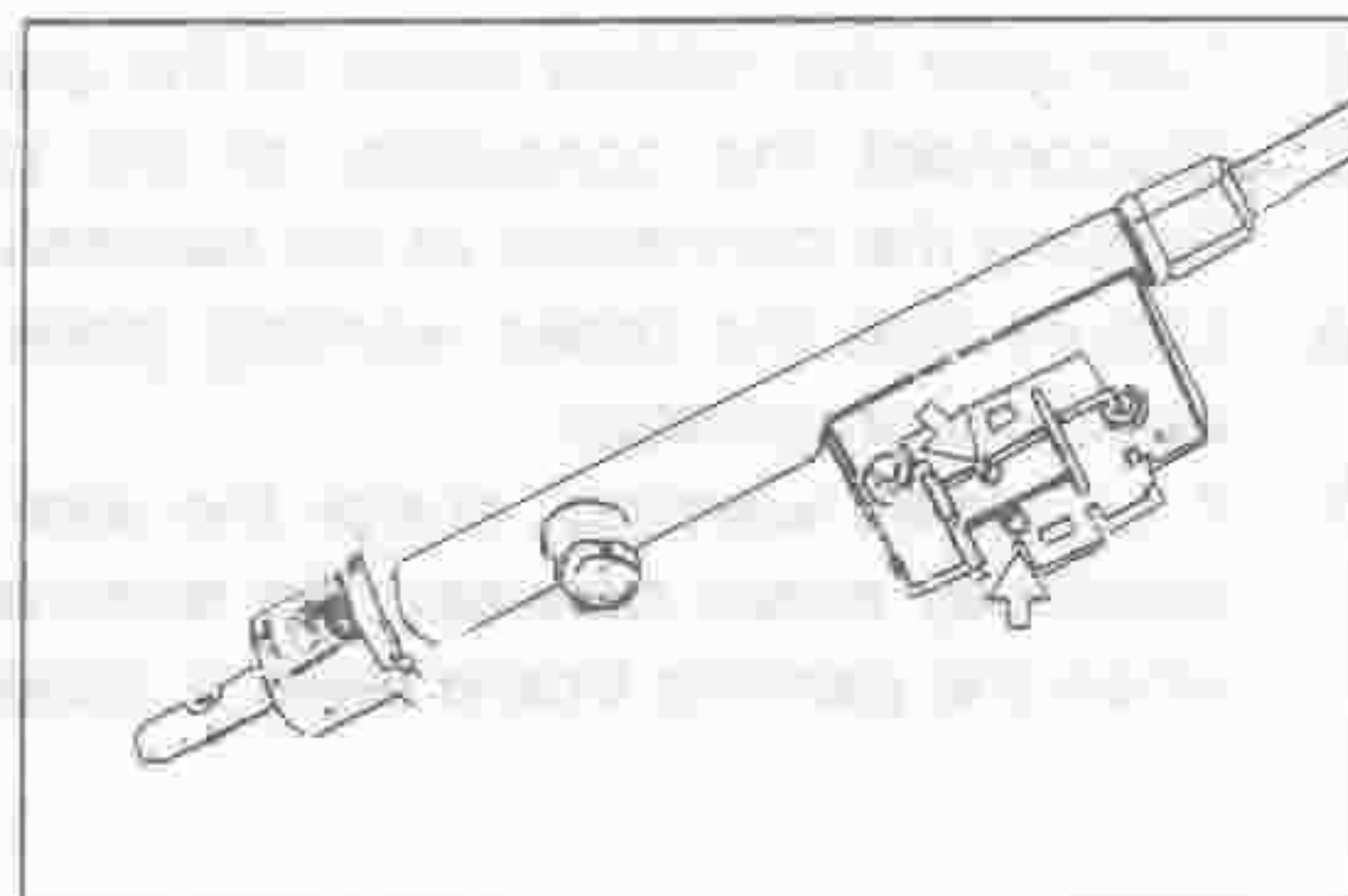
In-vehicle inspection

1. Remove the choke button by removing the attaching screw.
2. Remove the nut of the choke button.



LBE00049-00331

3. Remove the choke cable from the instrument panel.
4. Disconnect the connector of the wire harness of the choke warning switch.
5. Pull the choke button. Then, use an ohmmeter to measure the choke warning switch for continuity.
6. If no continuity exists between the terminals, replace the choke cable assembly.



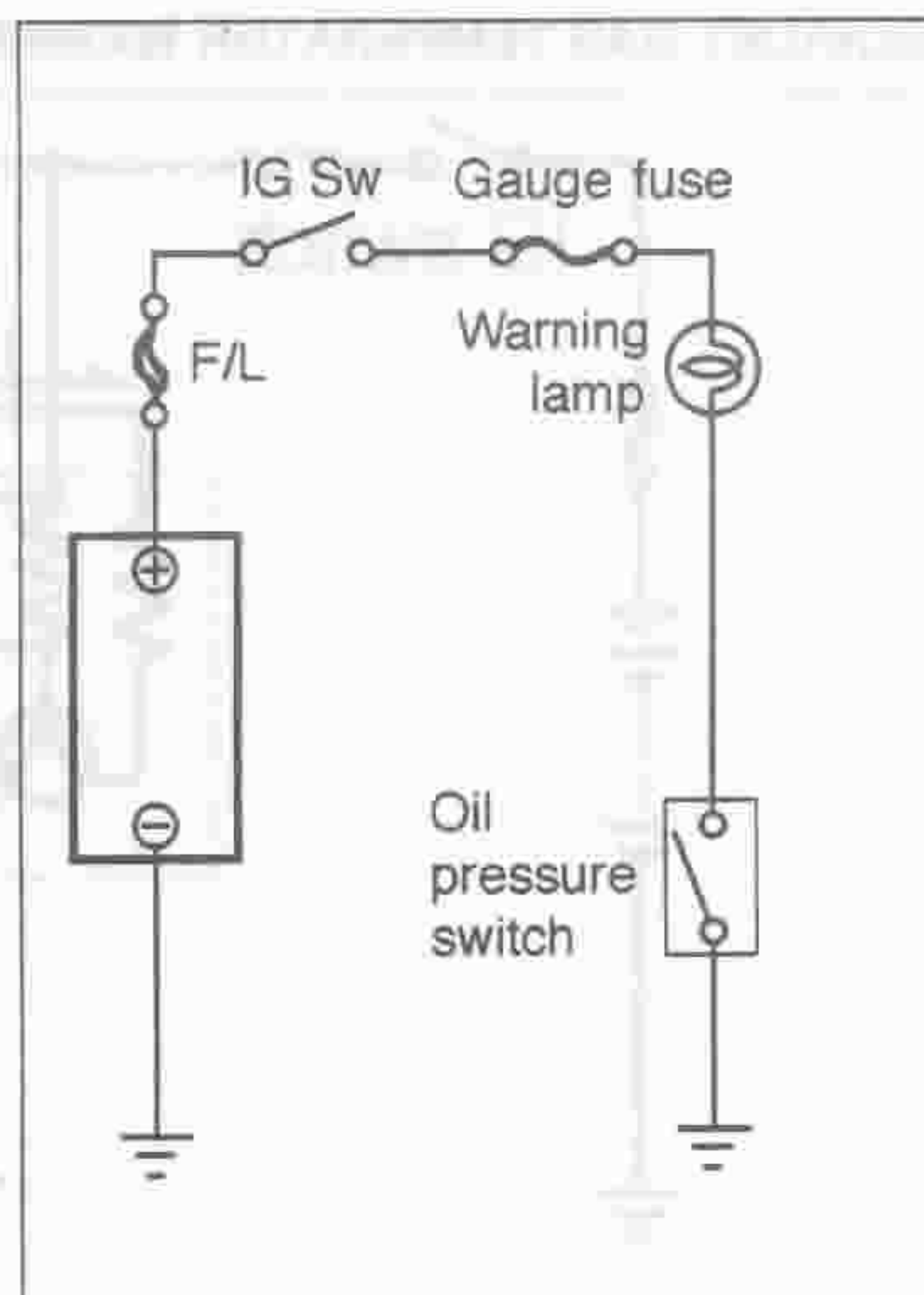
LBE00050-00332

OIL PRESSURE WARNING

Description

The oil pressure warning circuit consists of an oil pressure switch provided at the discharge port of the lubrication oil pump of the engine and a warning lamp located inside the combination meter.

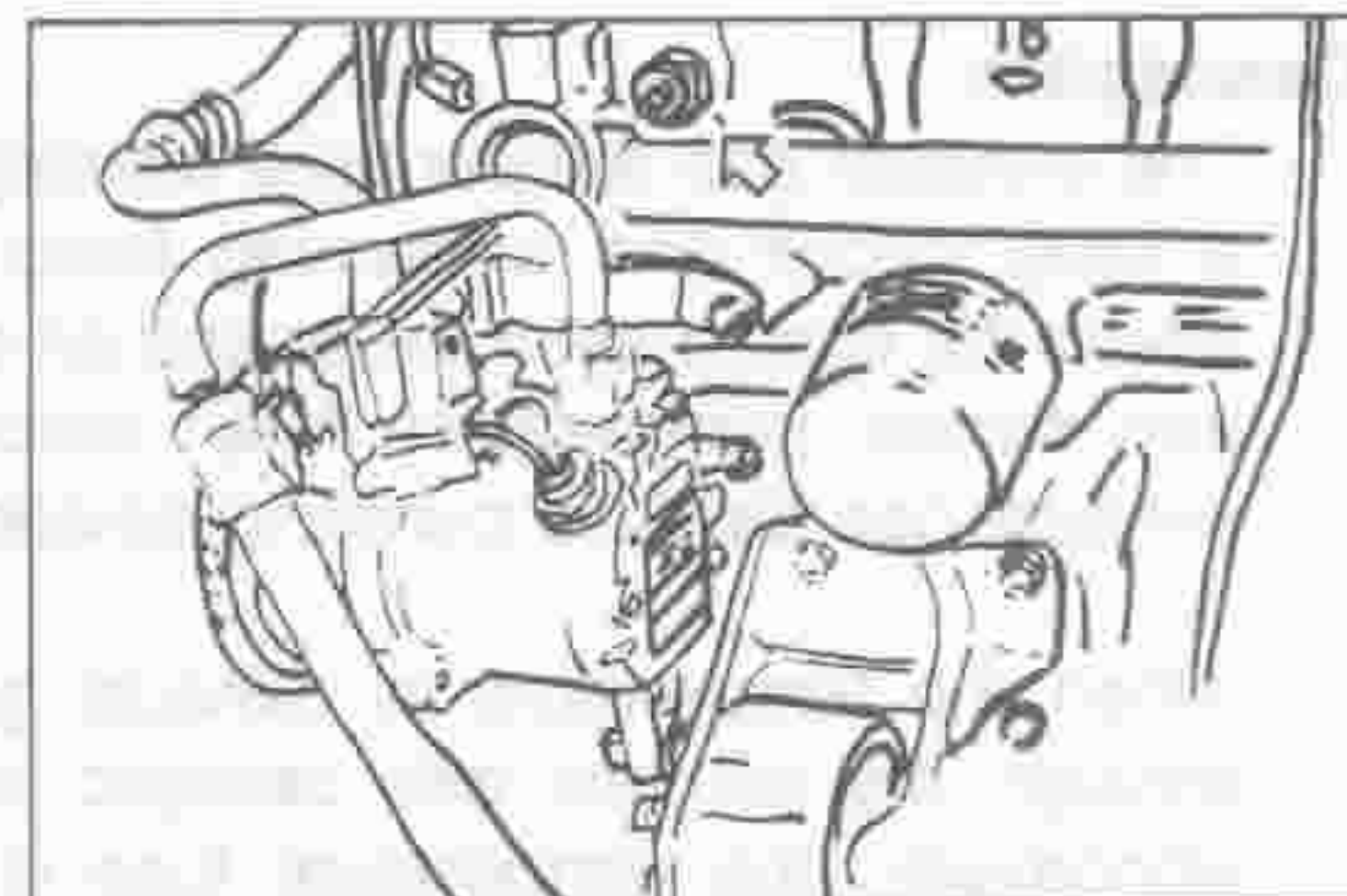
When the ignition switch is turned ON and the engine has not started yet, the pressure of the engine lubrication oil is lower than the specified oil pressure. Therefore, the oil pressure switch is turned ON, thereby lighting the warning lamp. Then, when the pressure of the lubricating oil rises above the specified pressure level after the engine has started, the oil pressure switch is turned OFF. As a result, the warning lamp goes out.



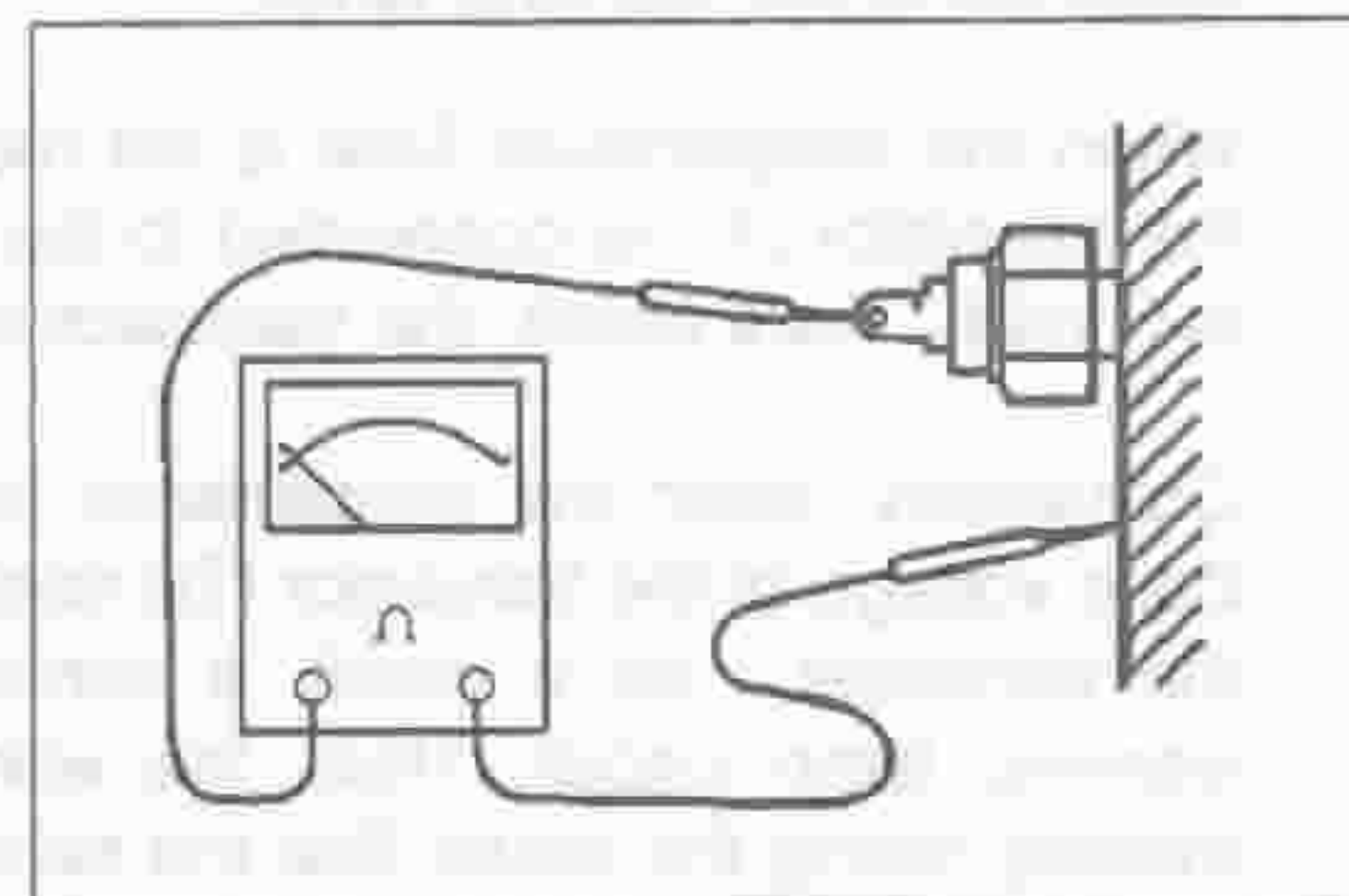
LBE00051-00335

In-vehicle inspection

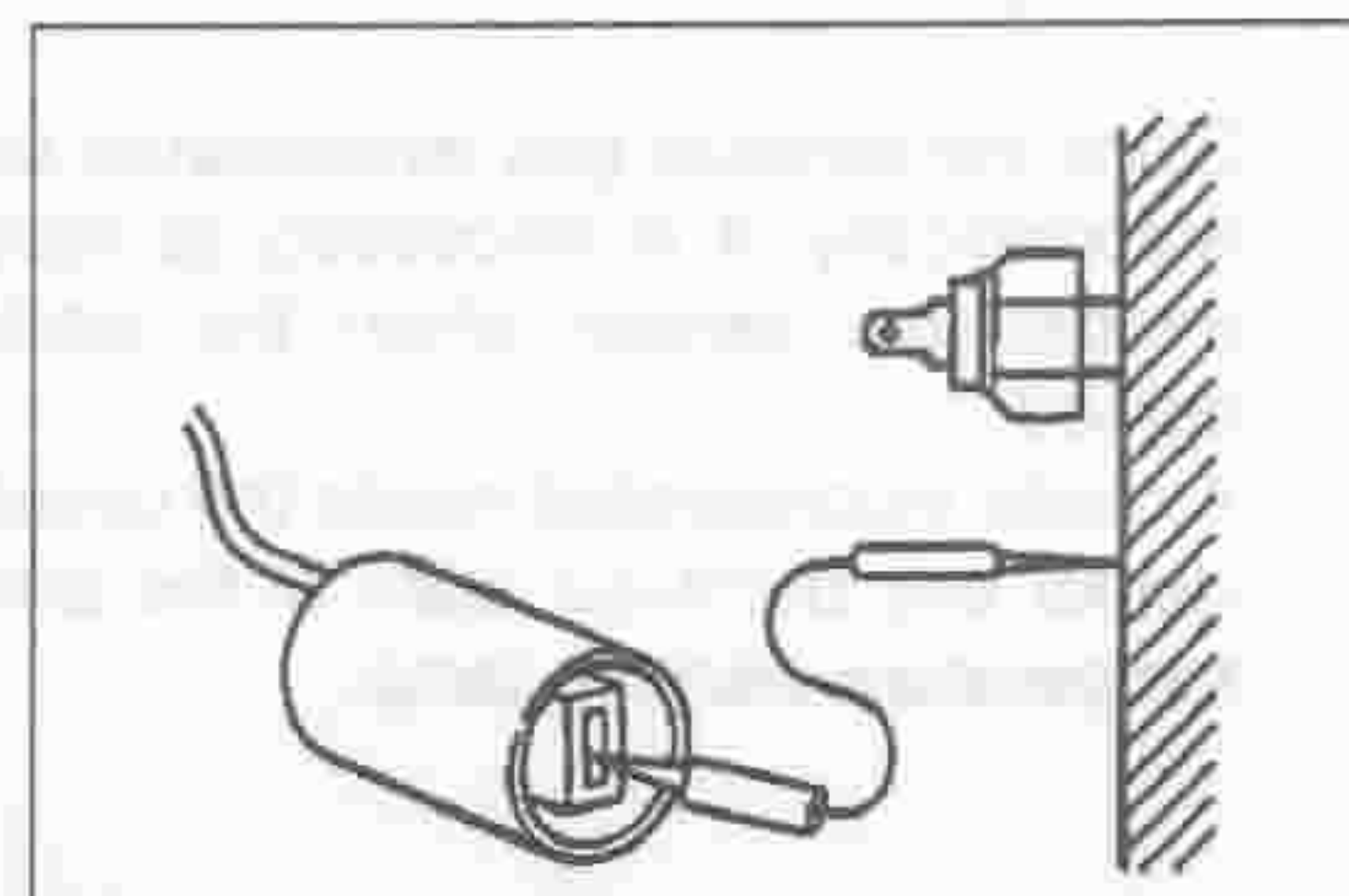
1. Disconnect the connector of the oil pressure warning switch.
2. Use an ohmmeter to measure the oil pressure switch for continuity.
3. If no continuity exists between the terminal and engine ground, replace the oil pressure switch.
4. Start the engine. Then, ensure that the no continuity exists between the terminal and ground.
If not, replace the oil pressure switch.
5. Use a test wire to connect the wire harness and engine ground. Then, ensure that the oil warning lamp in the combination meter goes on.
6. If not, Check the wire harness and replace the wire harness as required.



LBE00052-00336

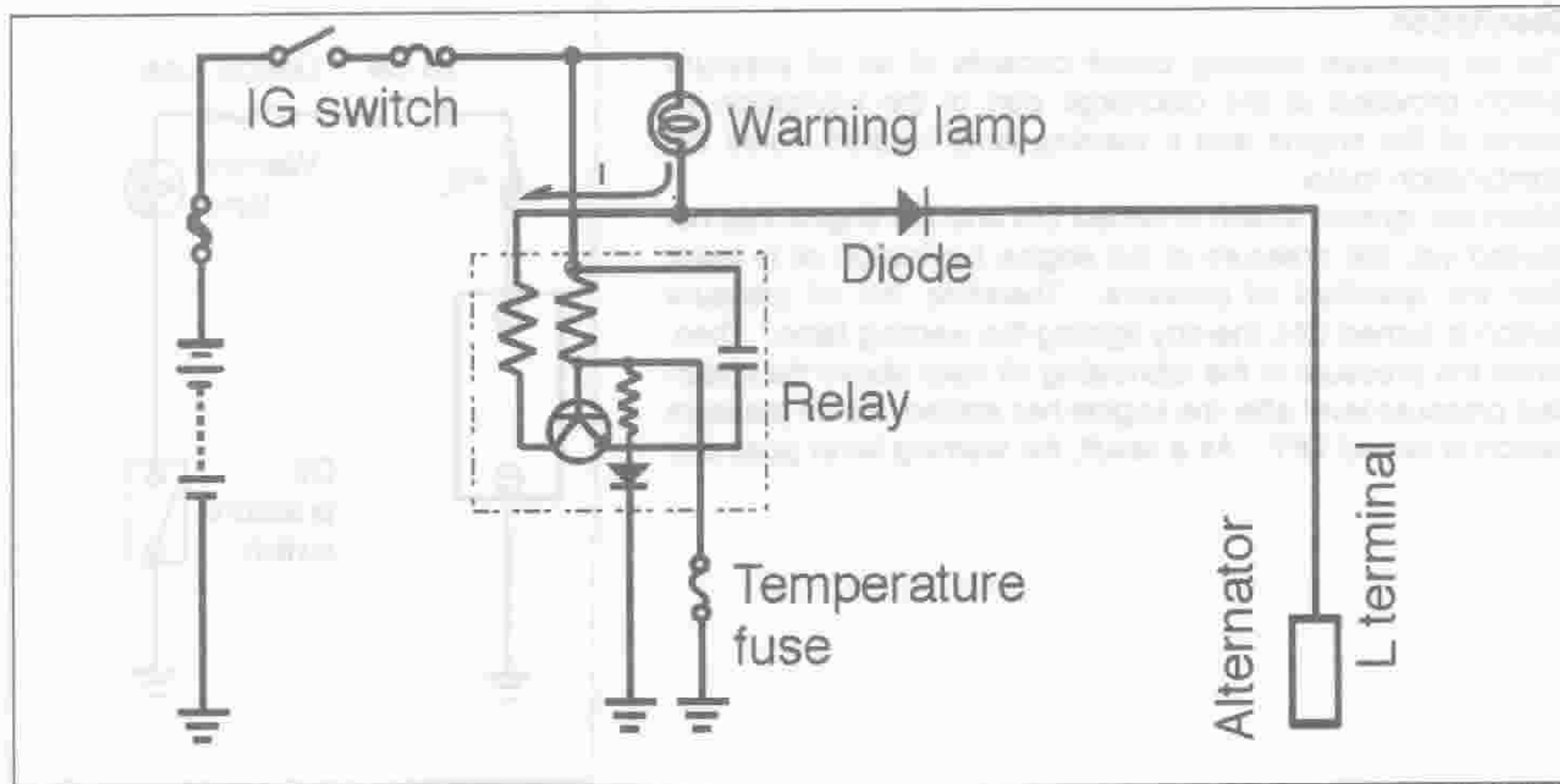


LBE00053-00337



LBE00054-00338

EXHAUST GAS TEMPERATUR WARNING



LBE00055-00350

Description

The exhaust gas temperature warning device consists of a relay circuit and a warning lamp which are provided inside the combination meter and an exhaust gas temperature sensor (temperature fuse) which is provided in the exhaust gas catalytic purifying device (exhaust manifold).

When the temperature of exhaust gas which is passing through the exhaust gas catalytic purifying device rises abnormally, the temperature fuse is melt down, thereby illuminating the warning lamp.

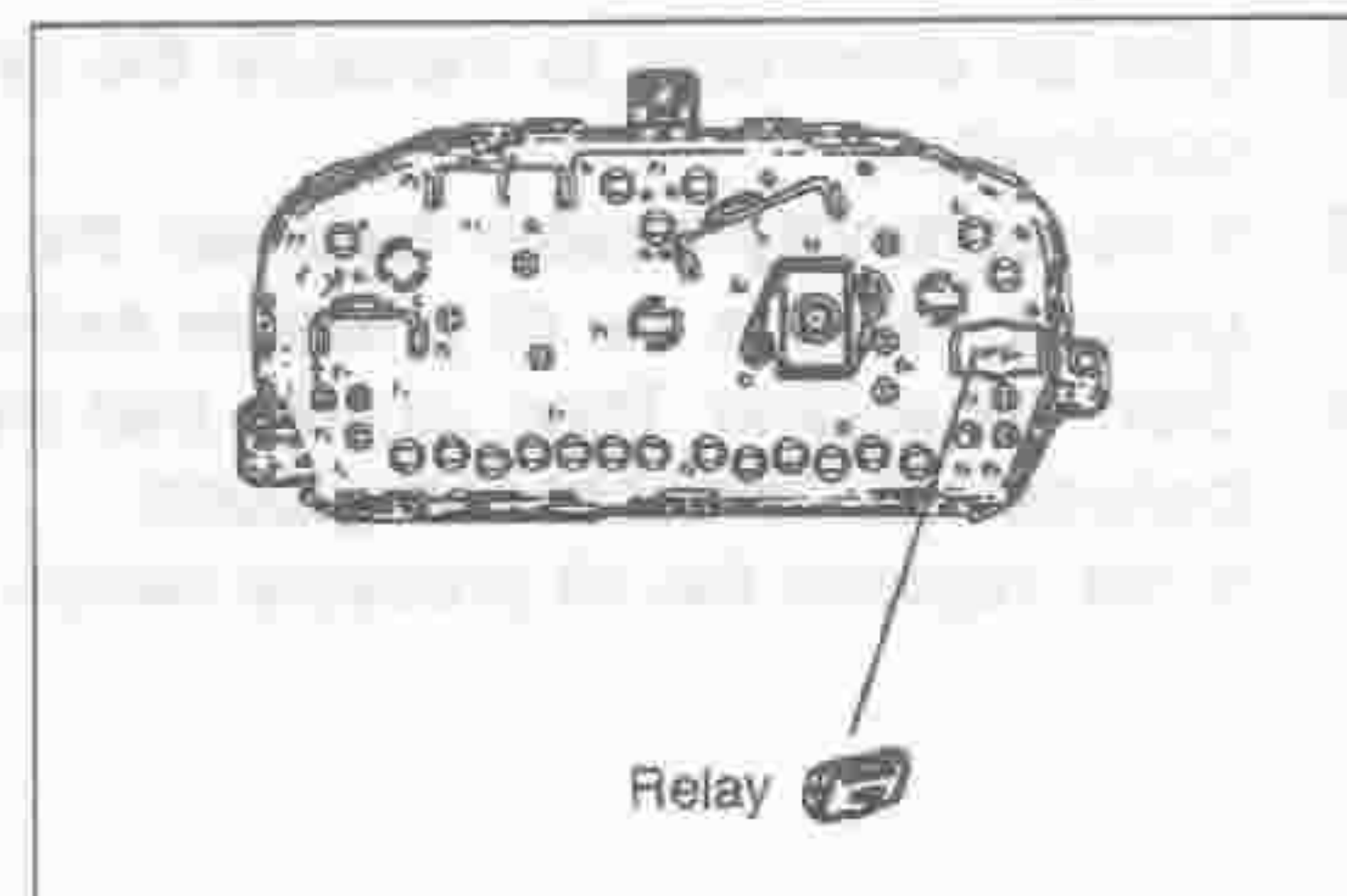
When the temperature fuse is not melt down, the base of the transistor (Tr) is connected to the earth and its voltage is 0 volts. As a result, the transistor is turned OFF.

Conversely, when the temperature fuse is melt down, the base voltage of the transistor (Tr) rises, thereby turning ON the transistor. As a result, a current flows through the warning lamp circuit. Thus, the warning lamp goes on, thereby telling the driver that the exhaust gas temperature is rising abnormally.

Since the exhaust gas temperature sensor will not be reset automatically, it is necessary to replace the exhaust gas temperature sensor when the warning lamp once has lighted.

A diode incorporated inside the circuit has been provide to detect any burnt-out state of the bulb of the exhaust gas temperature warning lamp.

LBE00056-00000



LBE00057-00358

LBE00058-00000

CHECK ENGINE WARNING

Description

The check engine lamp in the combination meter goes on, thus warning the driver of the abnormality engine for ED-20 and EF-EL.

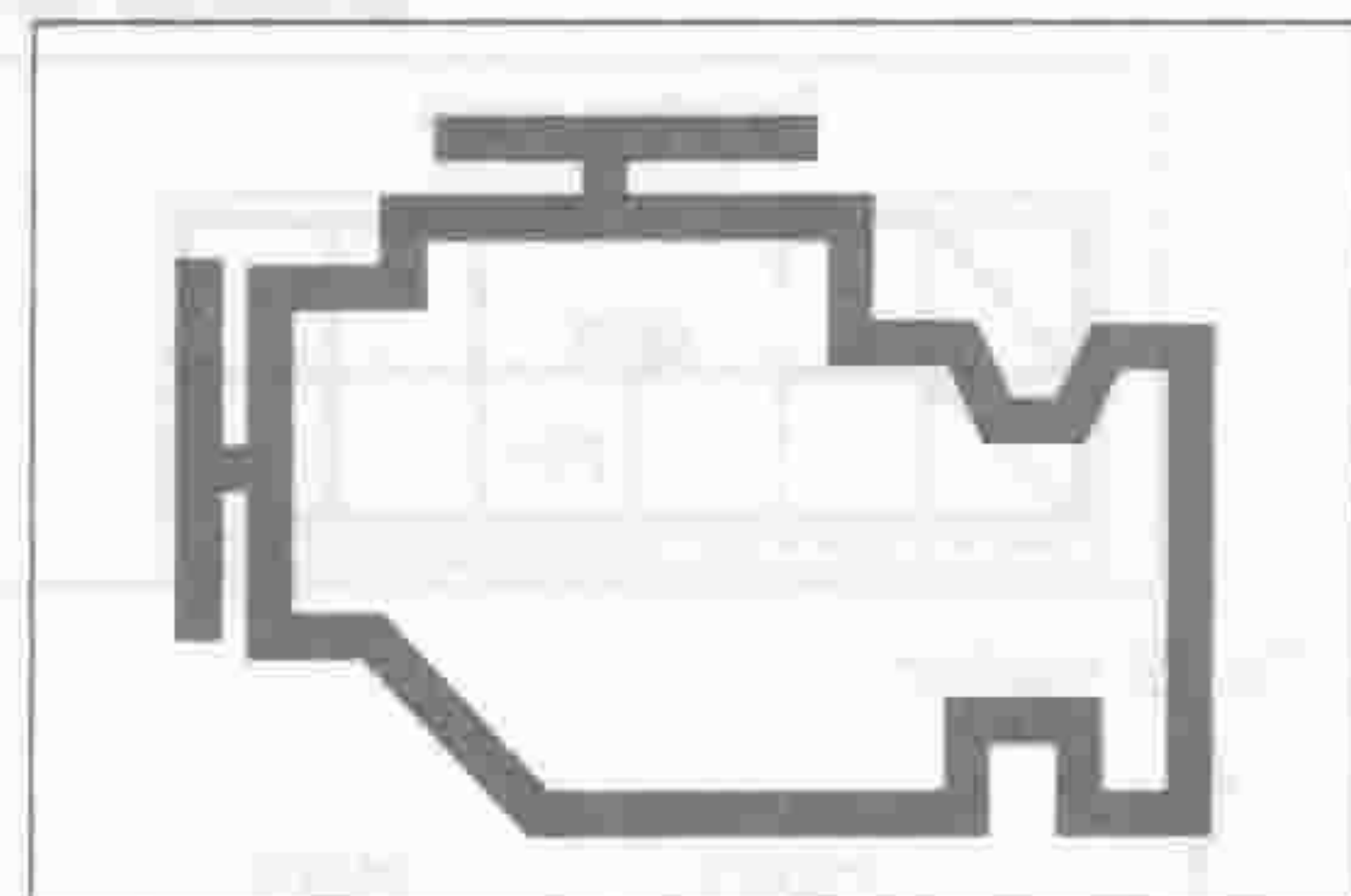
When the test terminal of the check connector is connected with the ground terminal, the malfunction code number that has been memorized in the ECU will be indicated in a form of blinking of the check engine lamp.

In-vehicle inspection

1. When the ignition switch is turned on, the check engine lamp goes on. (Engine is under a stopped state.)
2. If not, check to see that the bulb is burnt-out or not.
3. When the engine starts, the check engine lamp goes off. If the check engine lamp remains illuminated, it indicates that the diagnosis system has detected system malfunctions.

NOTE:

- The check connector is located at the fender apron section on the left side of the engine compartment.
- Refer to EF section of the service manual.



LBE00060-00314F

LBE00061-00000

HAZARD WARNING

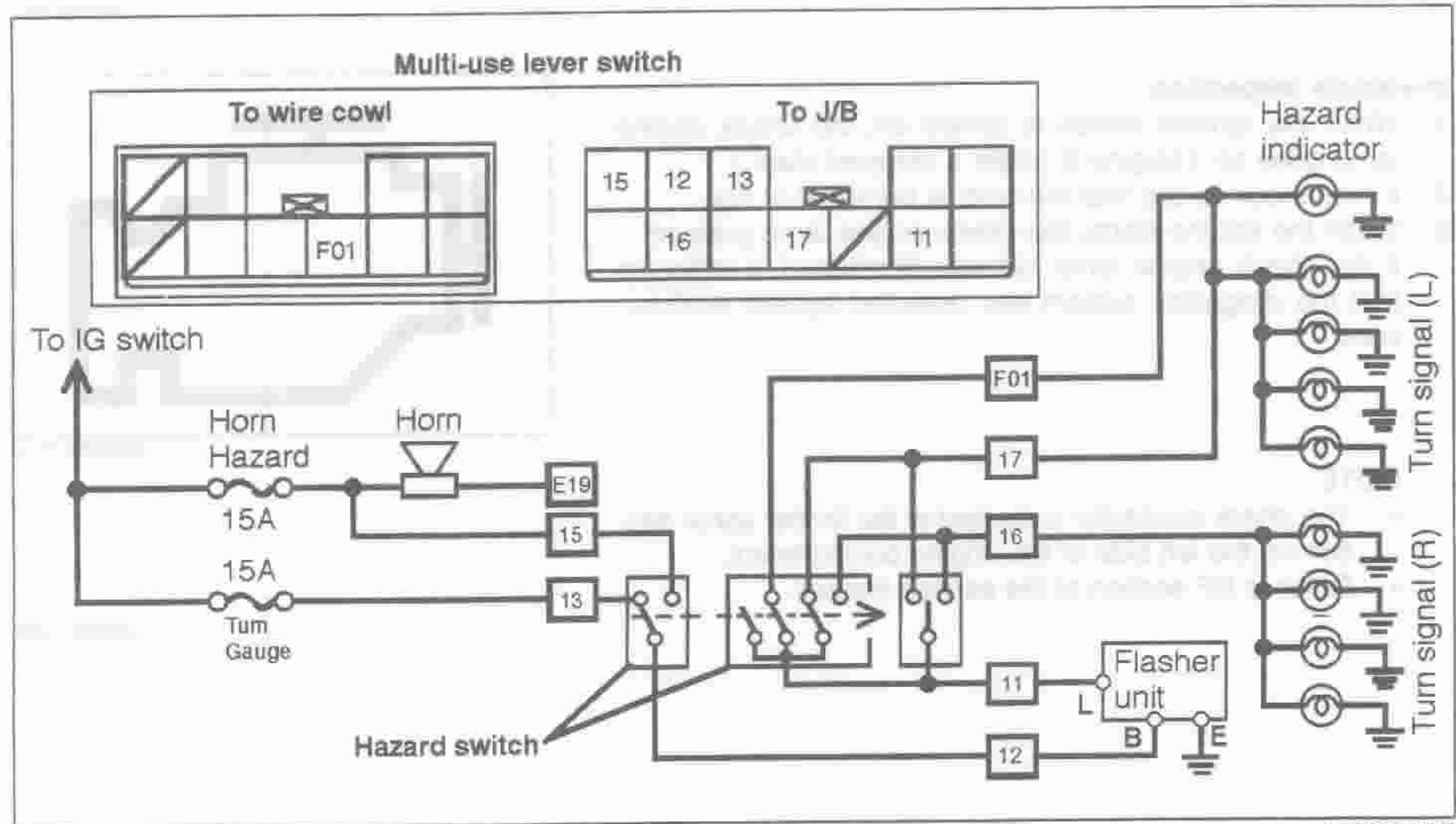
Description

The hazard warning circuit consists of a hazard switch, a flasher unit and a warning lamp located inside the combination meter.

When the hazard switch is turned ON, current starts flowing through the flashing circuit of the flasher unit to the hazard warning lamps. As a result, the hazard warning lamps start to flash.

No check system for bulb burnt-out state is provided for this hazard warning circuit.

BLINKER CIRCUIT DIAGRAM

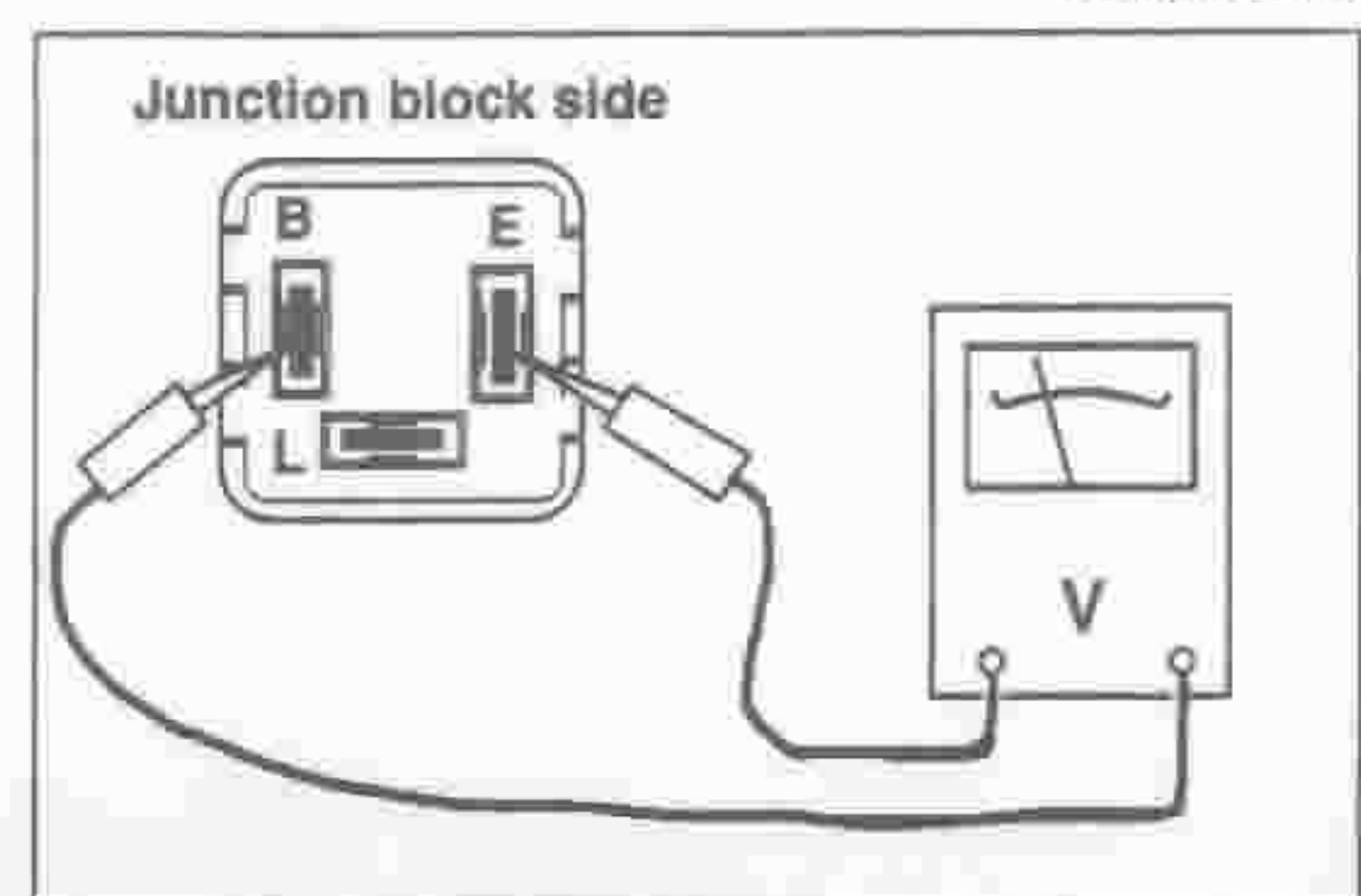
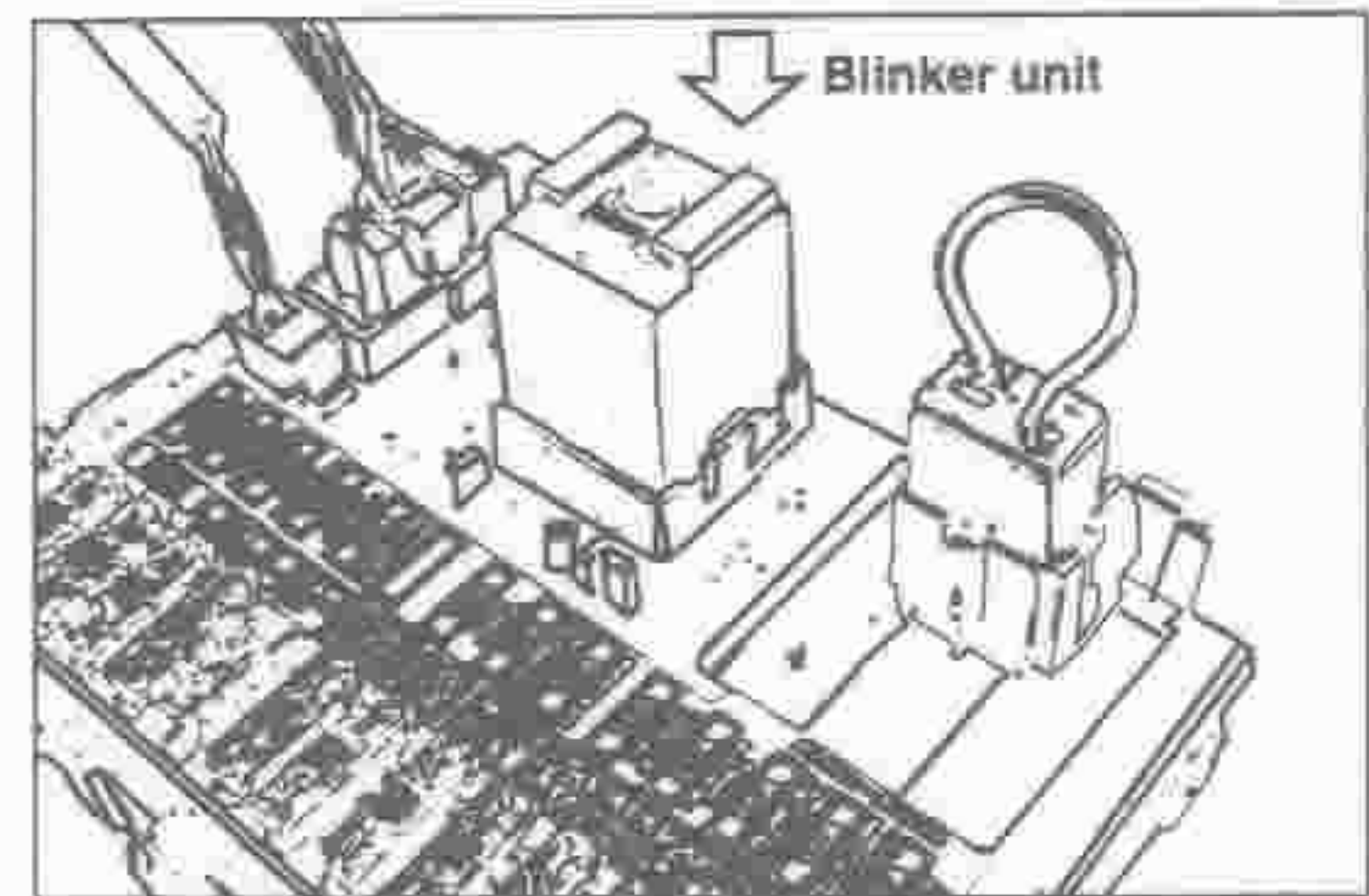


Inspection of switch

1. Remove the steering column lower cover.
2. Disconnect the connector of the multi-use lever switch.
3. Ensure that continuity exists between the terminals as indicated in the circuit diagram.

Inspection of blinker unit

1. Remove the blinker unit from the junction block (Main fuse box).
2. Ensure if the voltage exists the terminal B at the junction block when ignition switch is turned ON.
3. Ensure if the voltage exists the terminal when hazard switch turned ON.
4. Connect the blinker unit. Under above 2. and 3. condition, if the specified voltage exists at the terminal and the blinker unit will not work, then the unit is failure.



SPEEDOMETER

In vehicle check

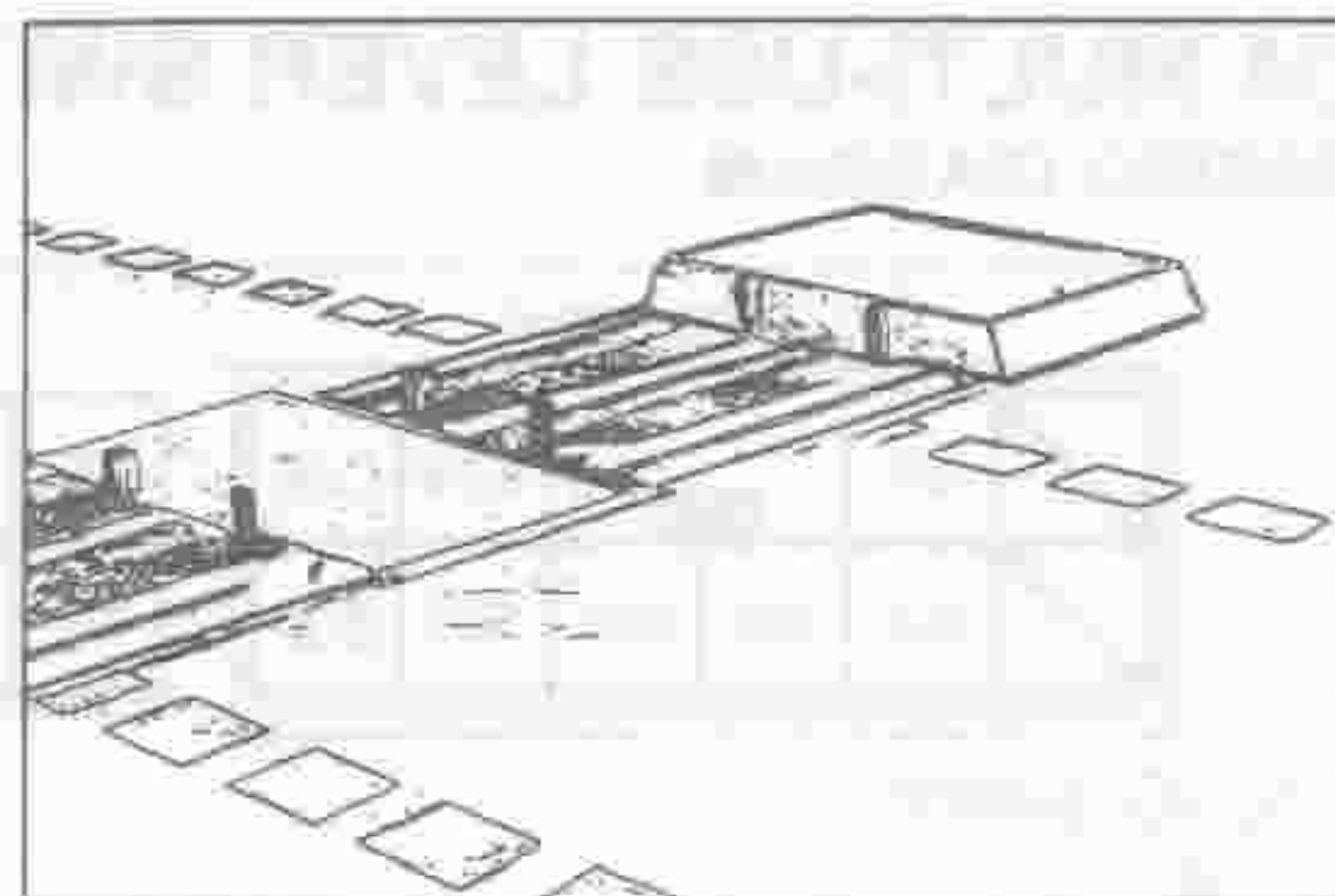
Using a speedometer tester, check the speedometer for any indication error, pointer fluctuation and abnormal noise.

NOTE:

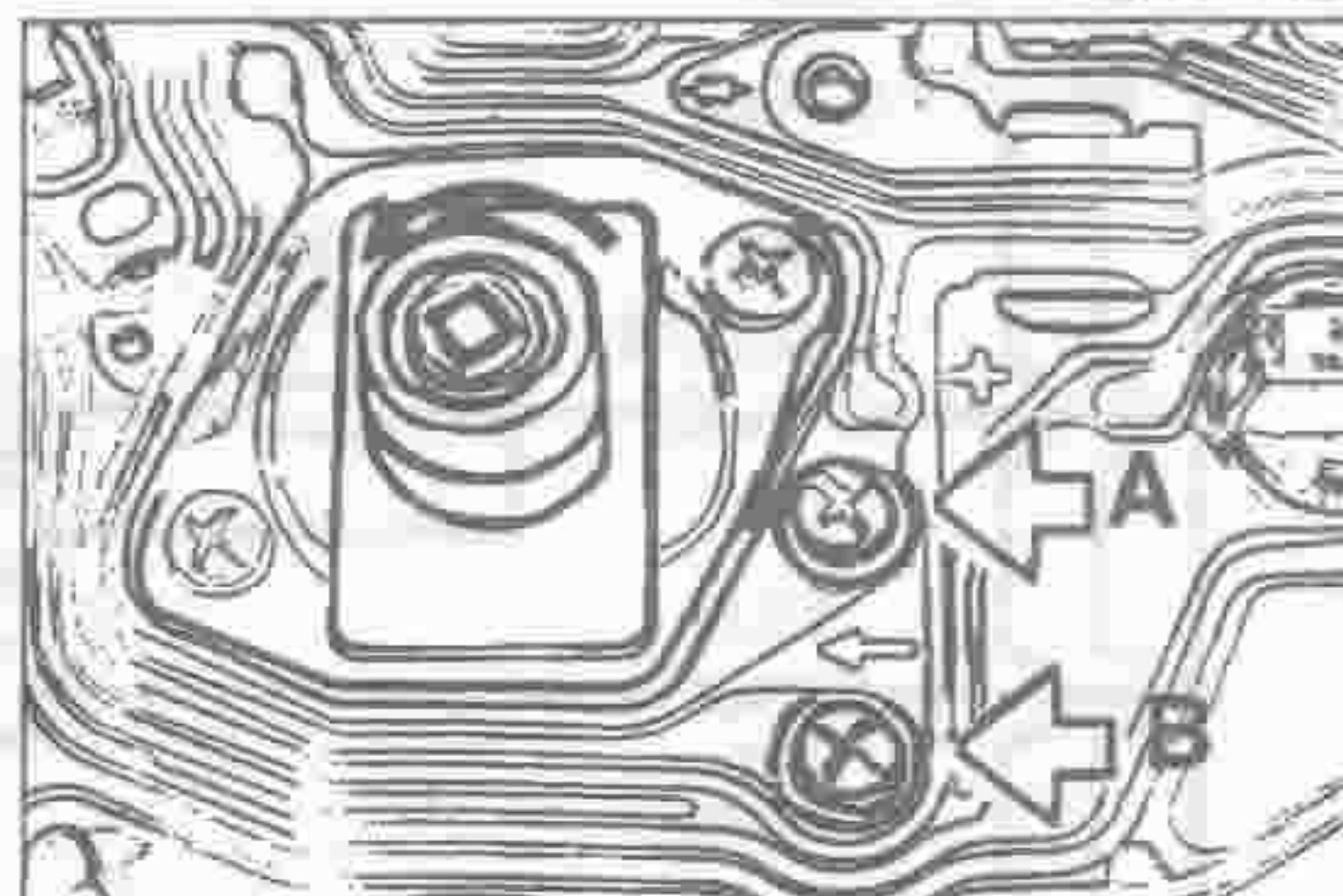
- It should be noted that excessive tire wear, over-inflation or under-inflation will cause indication errors of the speedometer.
- Fluctuations of the meter pointer are often attributable to a faulty meter cable.

Inspection of speed sensor (Reed switch)

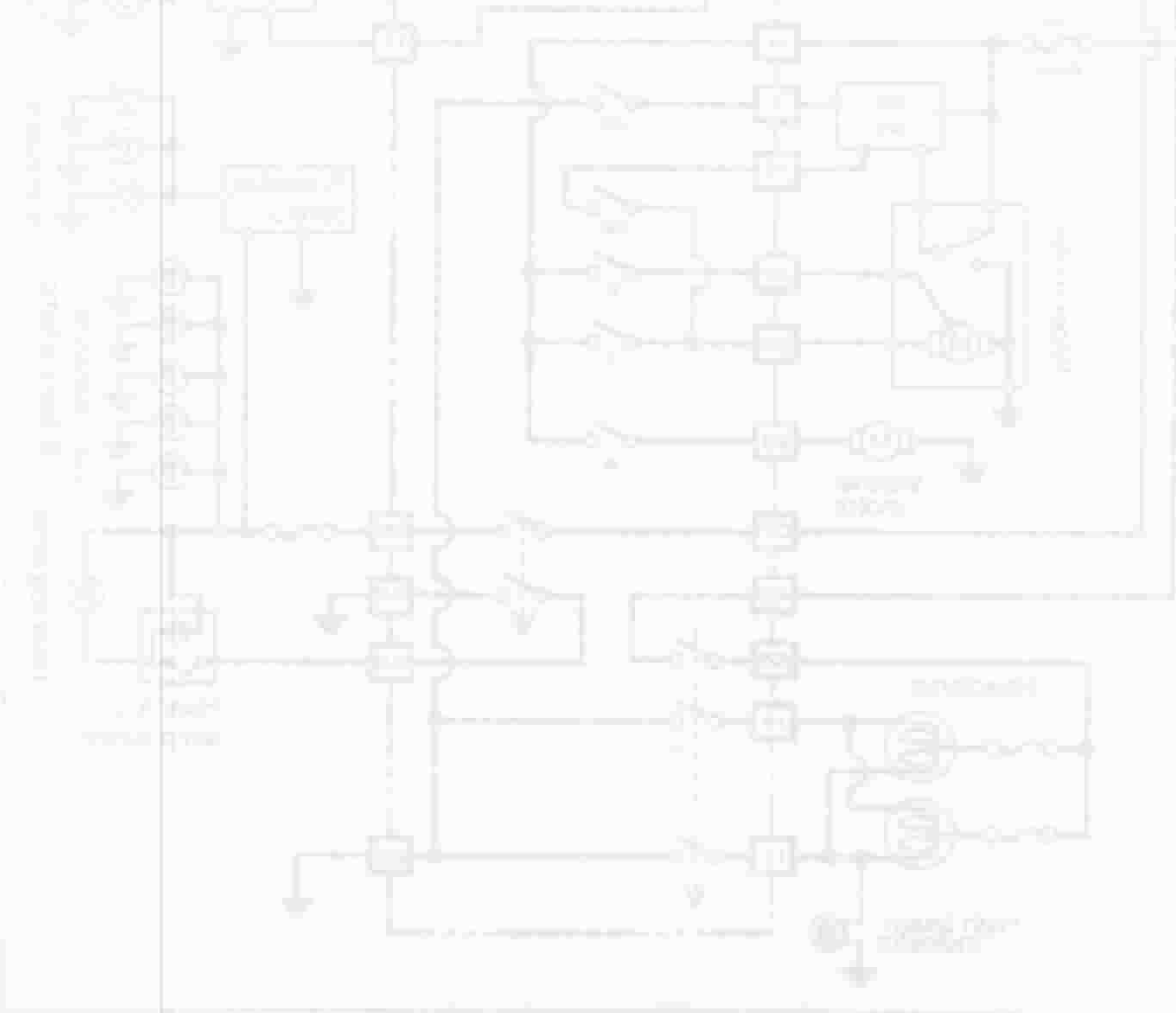
1. Remove the combination meter.
2. Ensure that continuity occurs four times at the reed switch terminals between A and B while the speedometer drive shaft completes one turn.
3. If not, replace the speedometer.



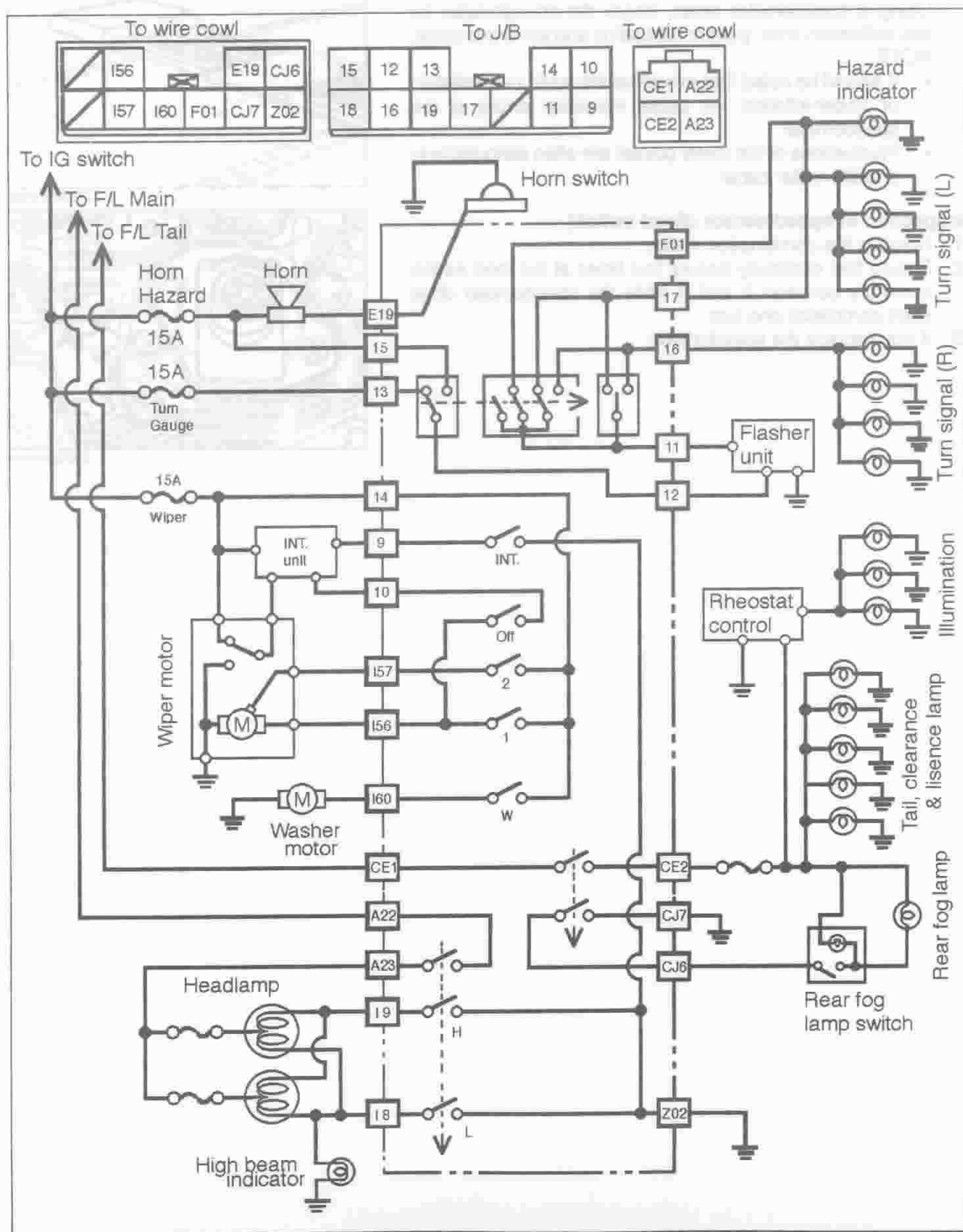
LBE00065-00390



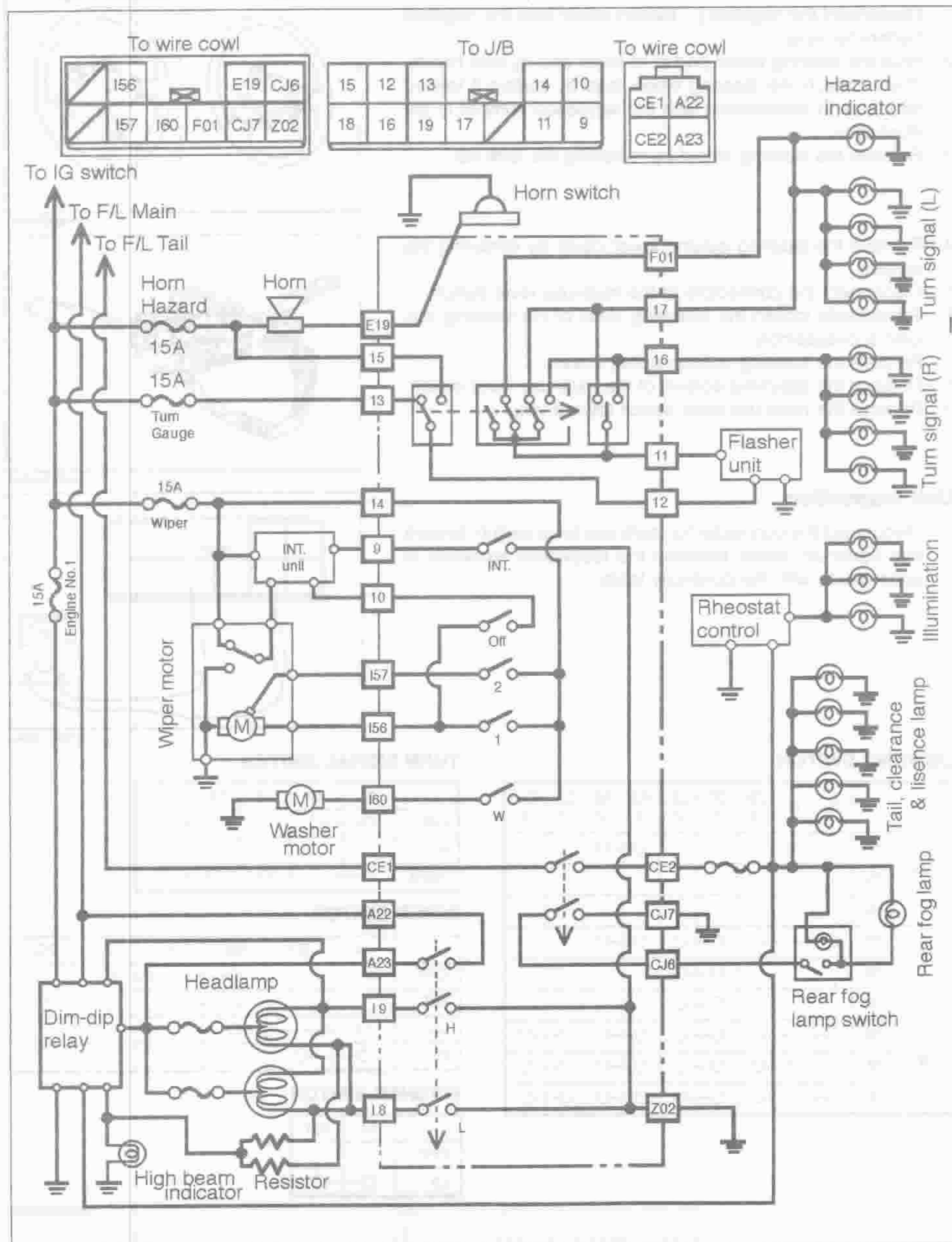
LBE00065-00399



04 MULTI-USE LEVER SWITCH WIRING DIAGRAM

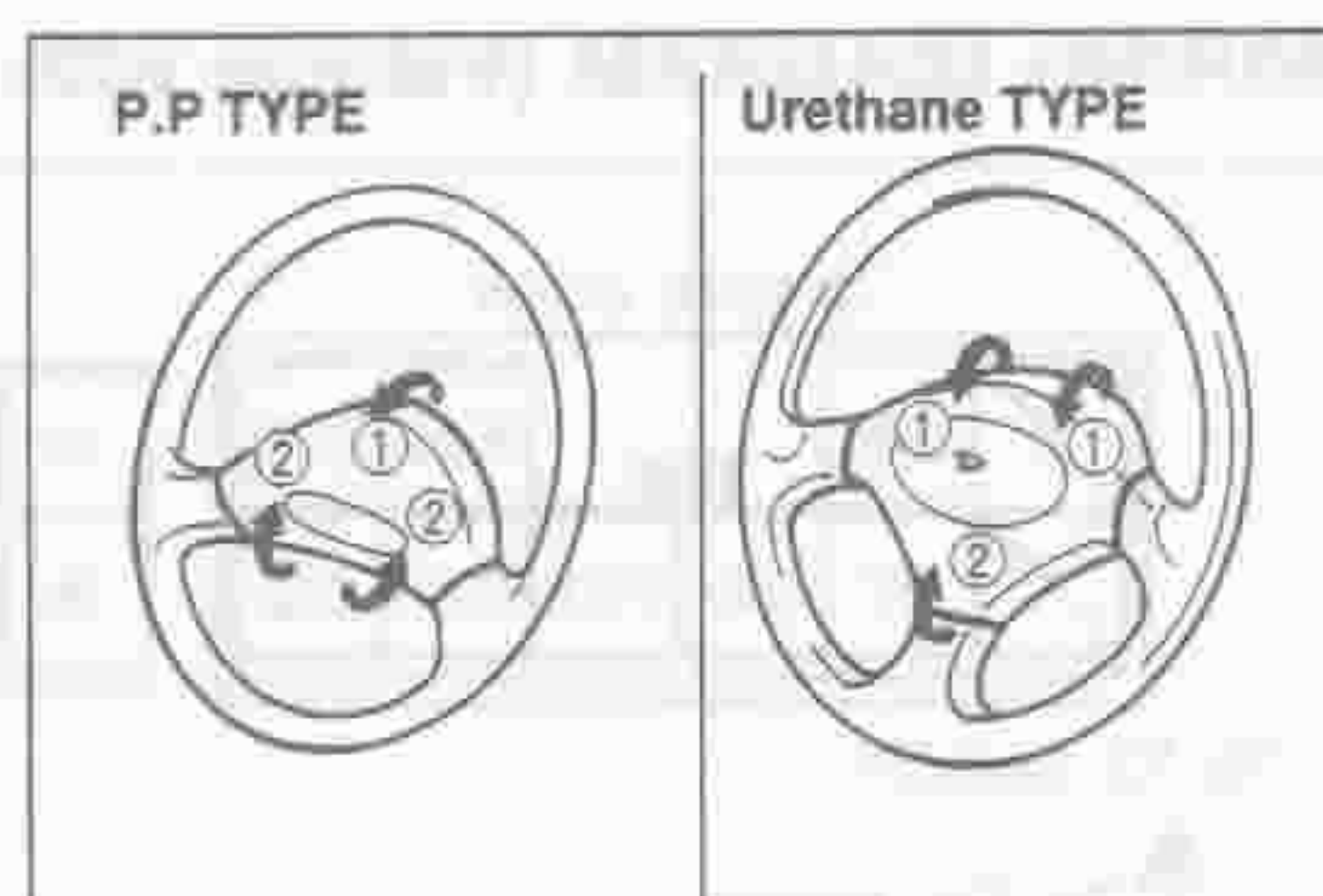


WIRING DIAGRAM (Vehicle with Dim-dip system)

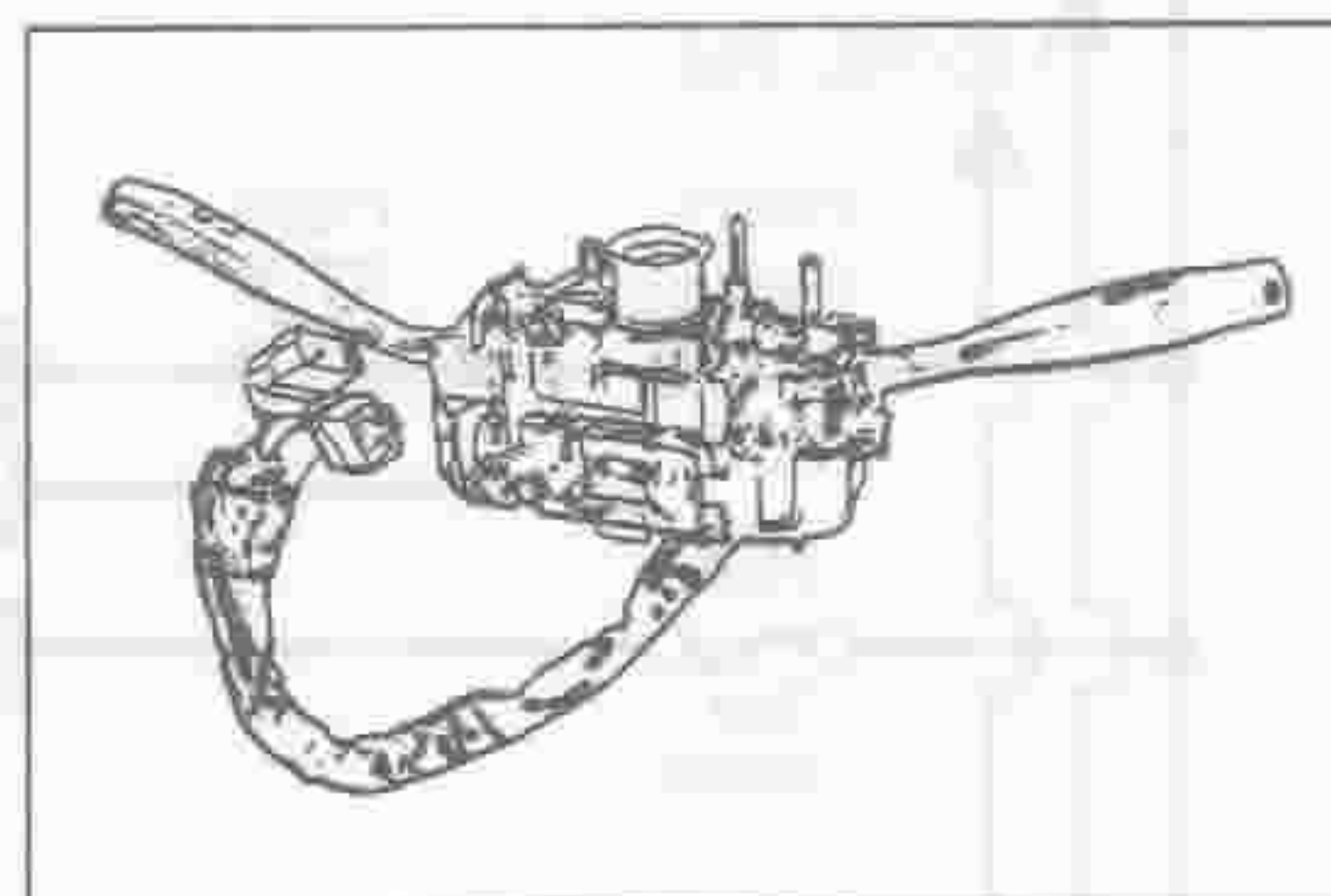


Removal

1. Disconnect the negative (-) battery cable from the negative battery terminal.
2. Hold the steering wheel pad at its lower end by your hands. Then, detach the steering wheel pad by pulling it toward your side in accordance with the sequence number in the illustration.
3. Remove the steering wheel by removing the lock nut.
4. Remove the steering column lower cover by removing the screws.
5. Disconnect the connectors of the multi-use lever switch.
6. Temporarily loosen the attaching bolts of the steering column sub-assembly.
7. Remove the steering column upper cover.
8. Remove the attaching screws of the multi-use lever switch.
9. Remove the multi-use lever switch toward you.



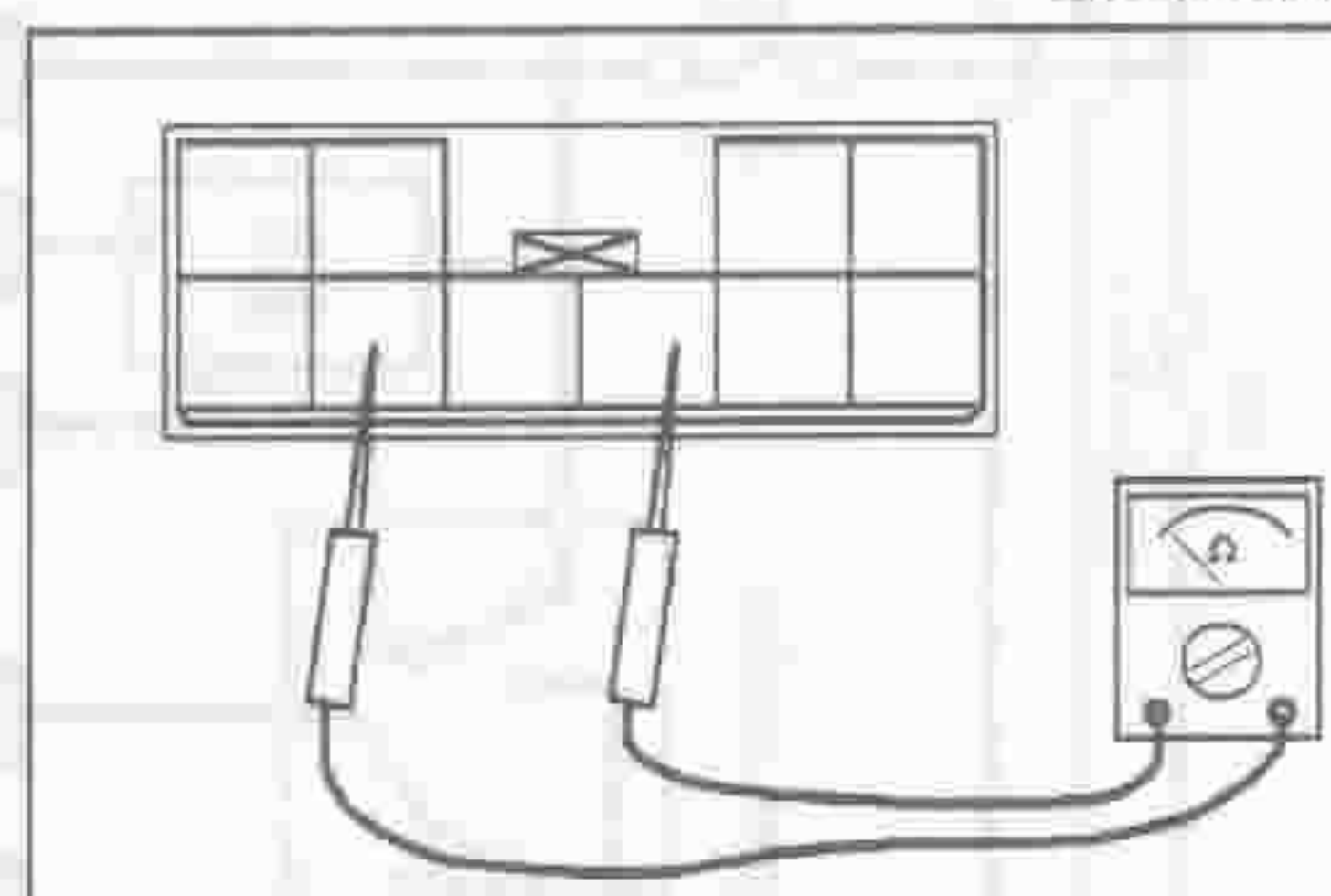
LBE00069-00401



LBE00070-00402

Unit inspection

Disconnect the connector for multi-use lever switch. Ensure that continuity exists between the respective terminals in accordance with the continuity table.



LBE00071-00403

LIGHTING SWITCH

		I9	I8	Z0 2	CE 1	CE 2	A2 3	A2 2	CJ 7	CJ 6
OFF	HF	○	○				○	○		
	HL									
	HU									
I	HF	○	○		○	○	○	○		
	HL				○	○				
	HU				○	○				
II	HF	○	○		○	○	○	○	○	○
	HL		○	○	○	○	○	○	○	○
	HU	○	○		○	○	○	○	○	○

TURN SIGNAL SWITCH

	11	17	16	13	12
Left	○	○		○	○
N					
Right	○		○	○	○

WIPER SWITCH

	14	I57	I56	9	10	Z02
OFF			○		○	
INT			○	○		○
Lo	○		○			
Hi	○	○				

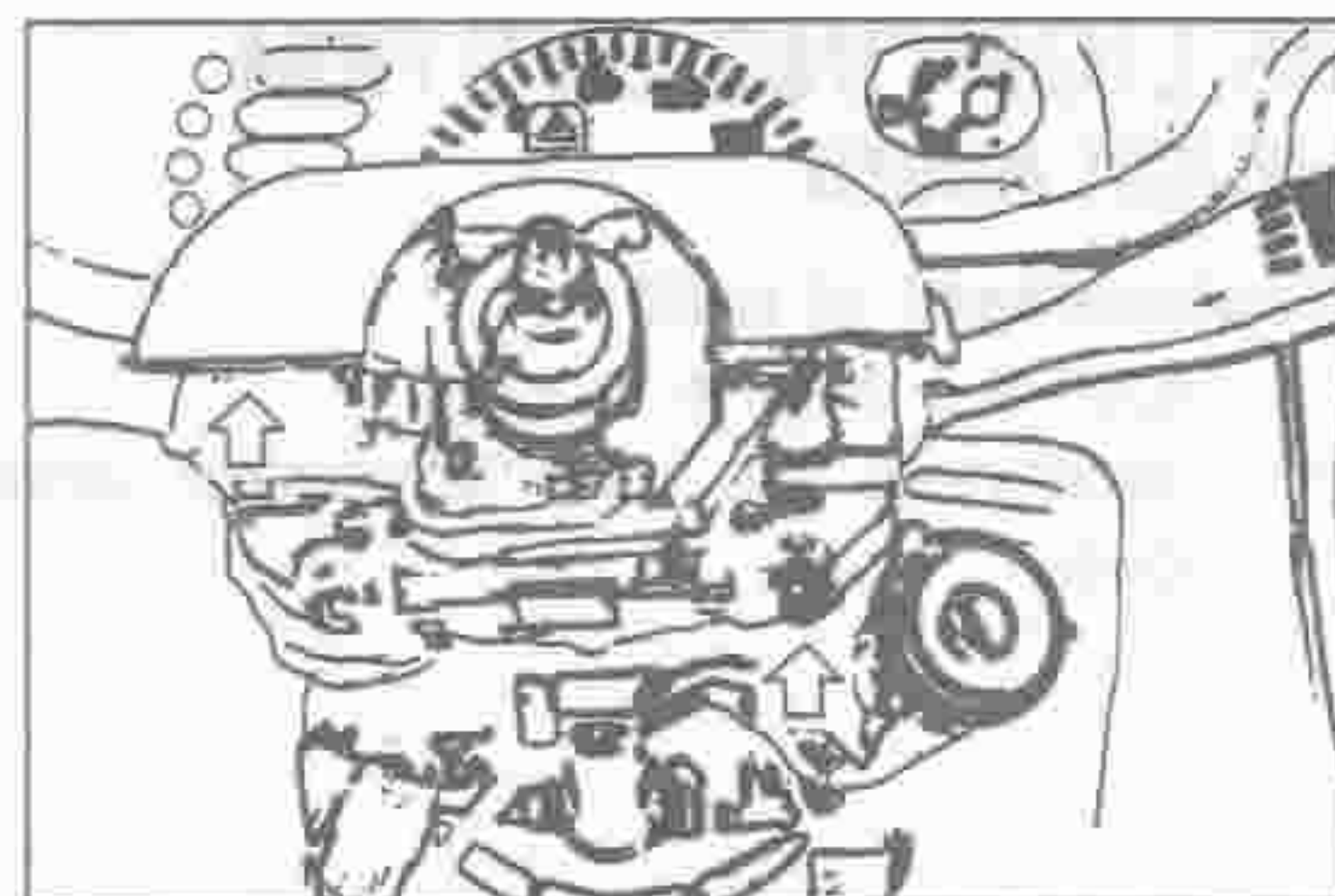
WASHER SWITCH

	14	I60
OFF		
Lo	○	○

LBE00072-00000

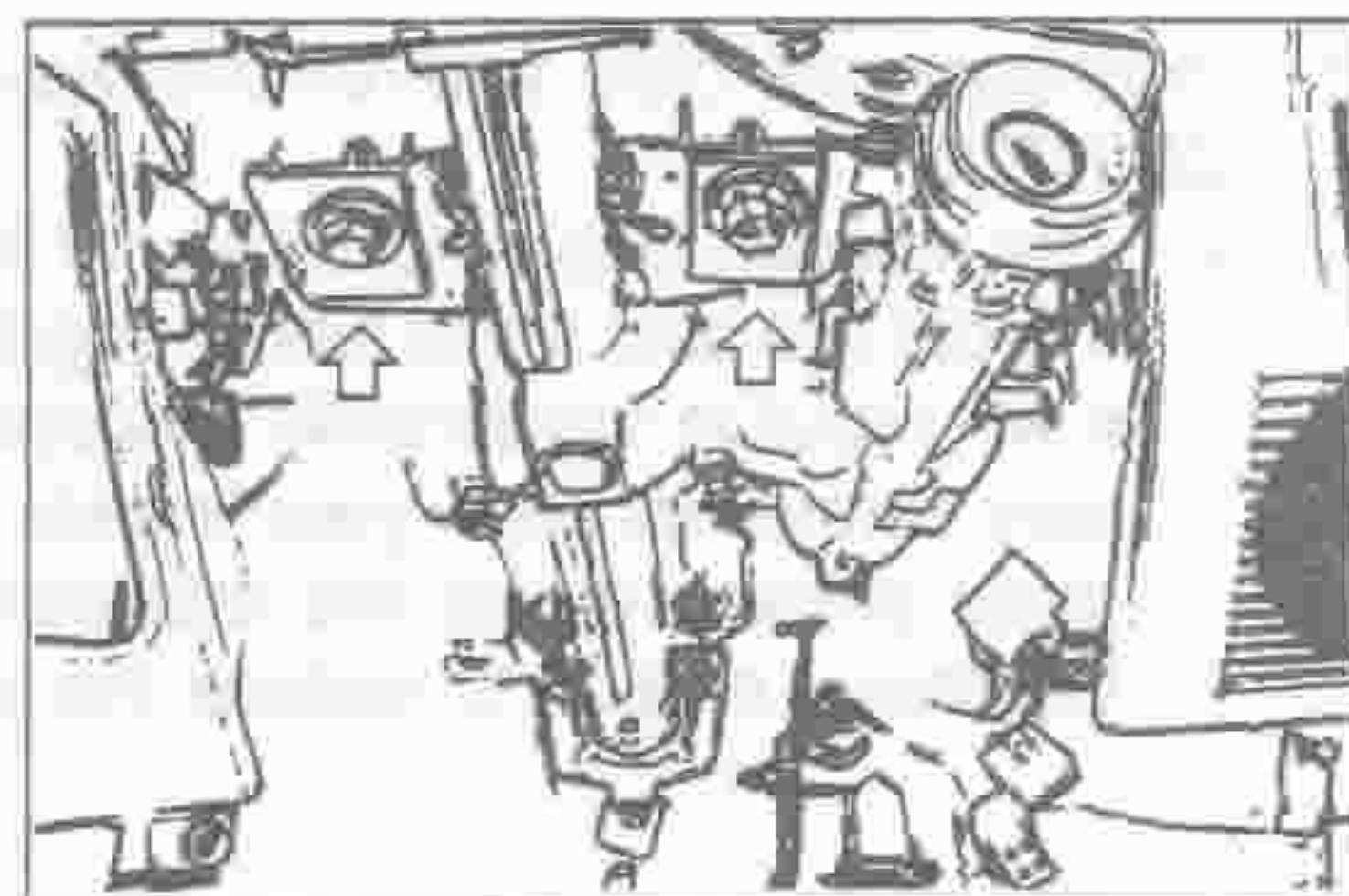
Installation

1. Install the multi-use lever switch in to the steering shaft.
2. Tighten the screws of the multi-use lever switch assembly.



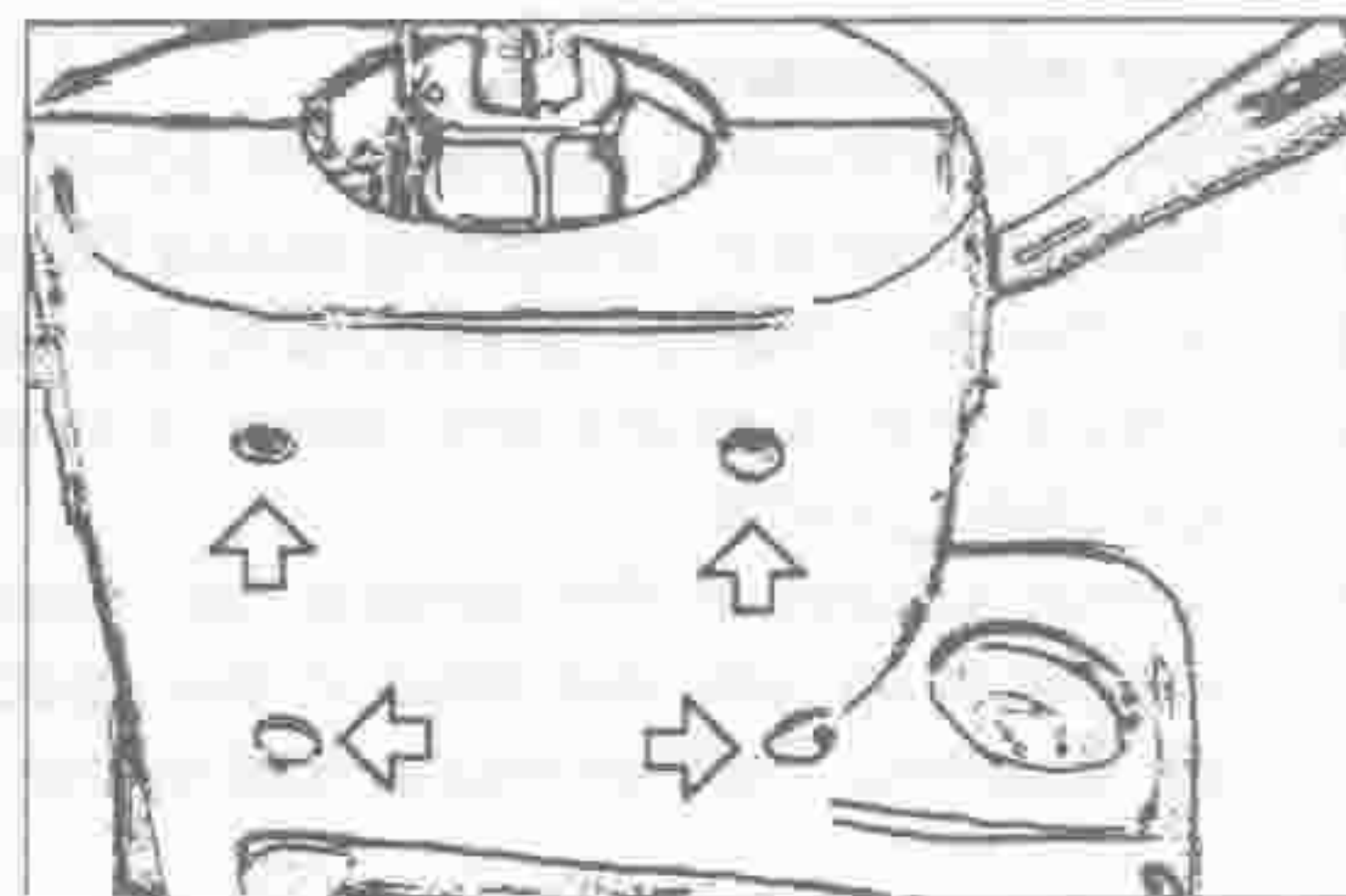
LBE00073-00405

3. Install the steering column upper cover.
4. Install the steering column sub-assembly.
Tightening Torque: 18 - 24 N·m (180 - 250 kgf-cm)



LBE00074-00406

5. Connect the connectors of the multi-use lever switch.
6. Install the steering column lower cover with screws.

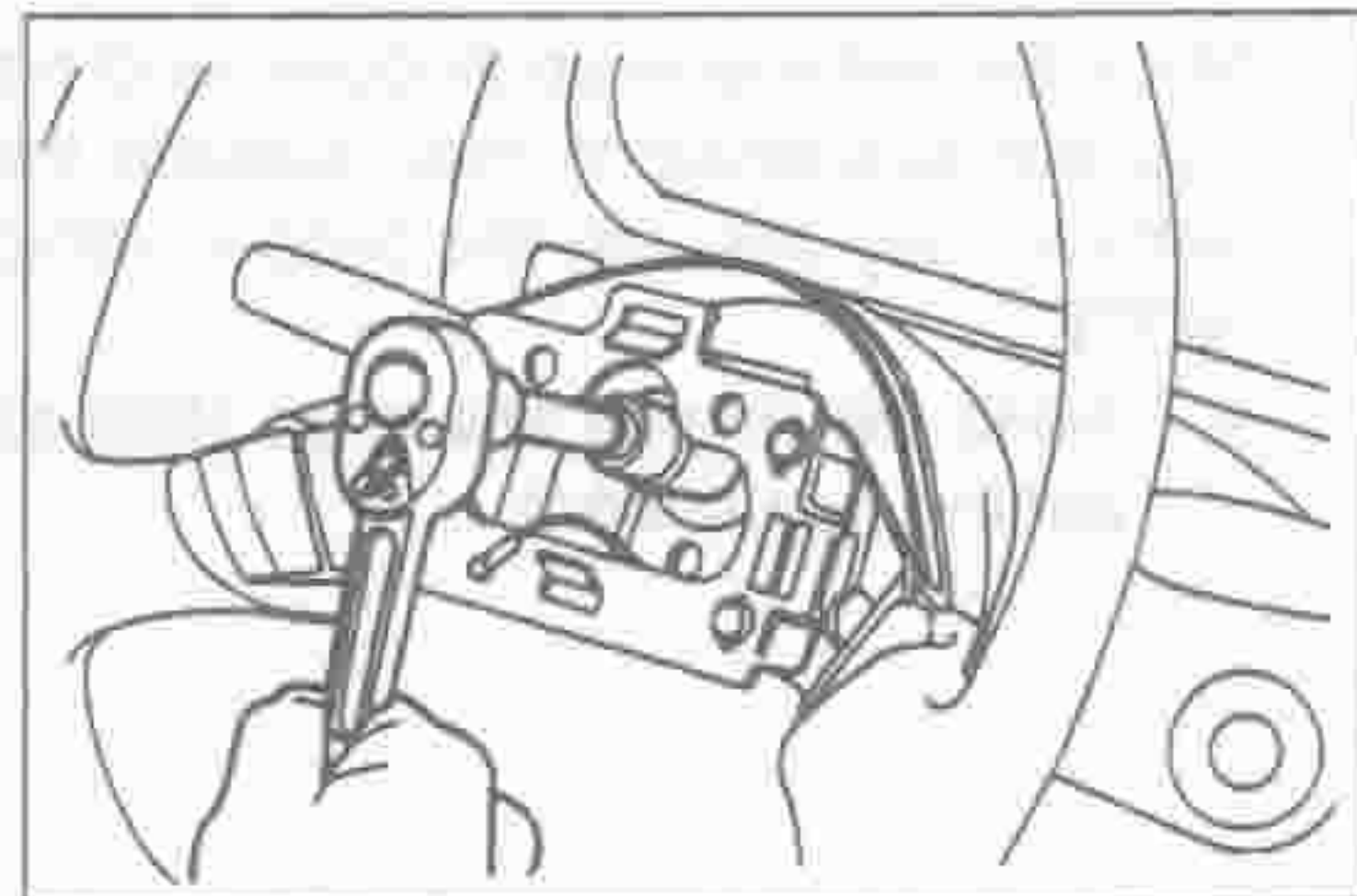


LBE00075-00201

7. Install the steering wheel with nut.
Tightening Torque: 30 - 44 N·m (300 - 450 kgf-cm)

NOTE:

- Before tightening the steering wheel securely, confirm that the steering wheel assumes proper position in the vehicle's straight-head position. Adjust the position of the steering wheel, as required.
- Apply lithium soap base glycol grease to the contact ring surface of the horn button.



LBE00076-00408

8. Connect the connector of the horn button.
9. Install the steering wheel pad.

LBE00077-00000

05 LIGHTING SYSTEM HEADLAMPS

Replacement of bulb

1. Open the engine food.
2. Disconnect the wire connector and remove the rubber cover.

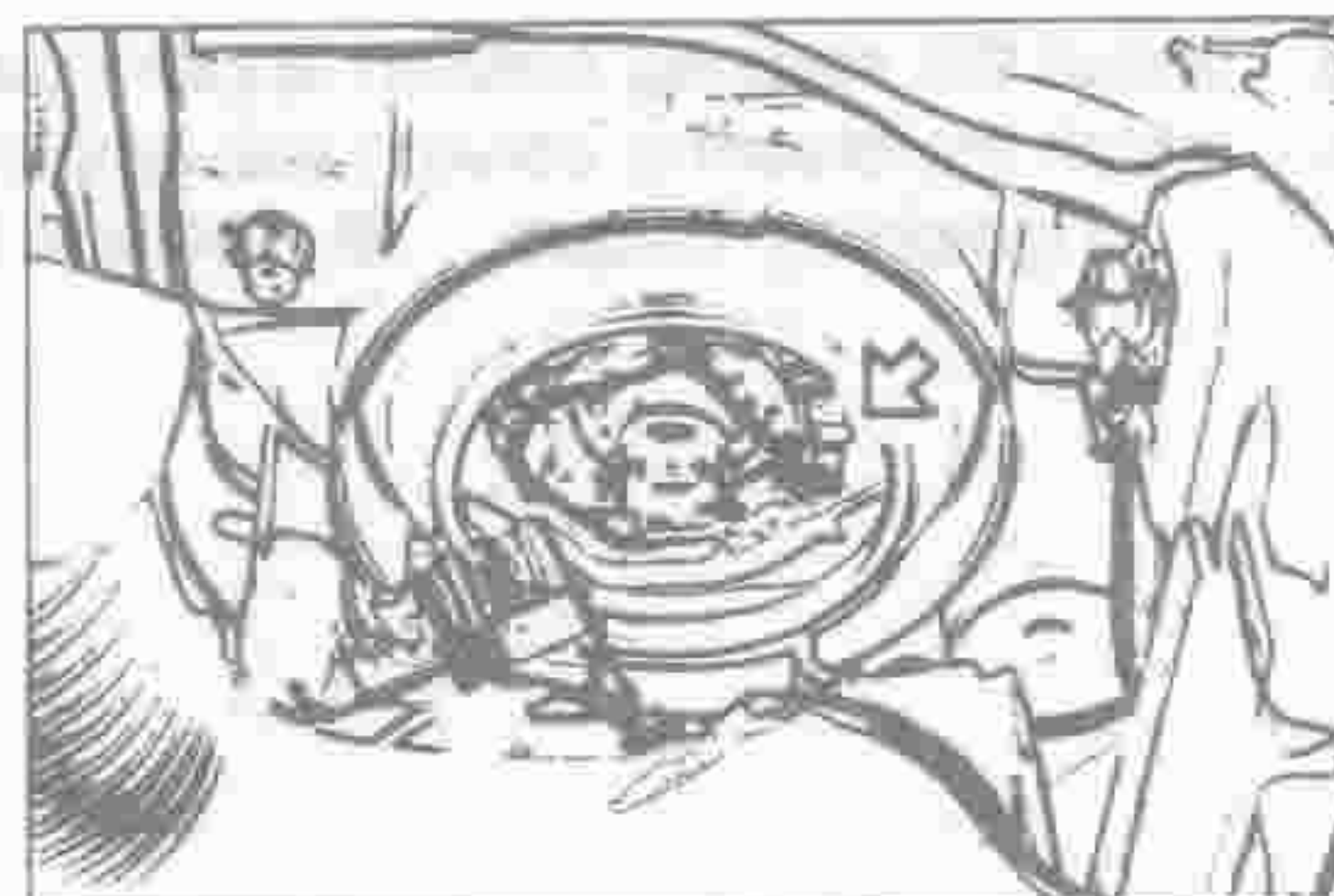
3. Disengage the clips and remove the bulb.

CAUTION:

- The halogen bulb reaches a very high temperature while it is put into use. If any lubricant gets on the bulb surface, it will result in significantly reduced lamp life. Hence, be very careful not allow your fingers, etc., to touch with the glass position during the replacement. Be sure to hold the flange section to replace the bulb.



LBE00078-00501



LBE00079-00502

Aiming adjustment

Perform the following operation in advance.

1. Seat one person (weighing about 75 kg) at the driver's seat.
2. Set the tire inflation pressure to the specified values.
3. Ensure that a spare tire, tools, a jack are mounted at the specified points.
4. Check to see if the engine oil, transmission oil, window washer fluid, etc. are filled to the specified levels. Fill them, as required. Further more, fuel in the fuel tank is filled up.

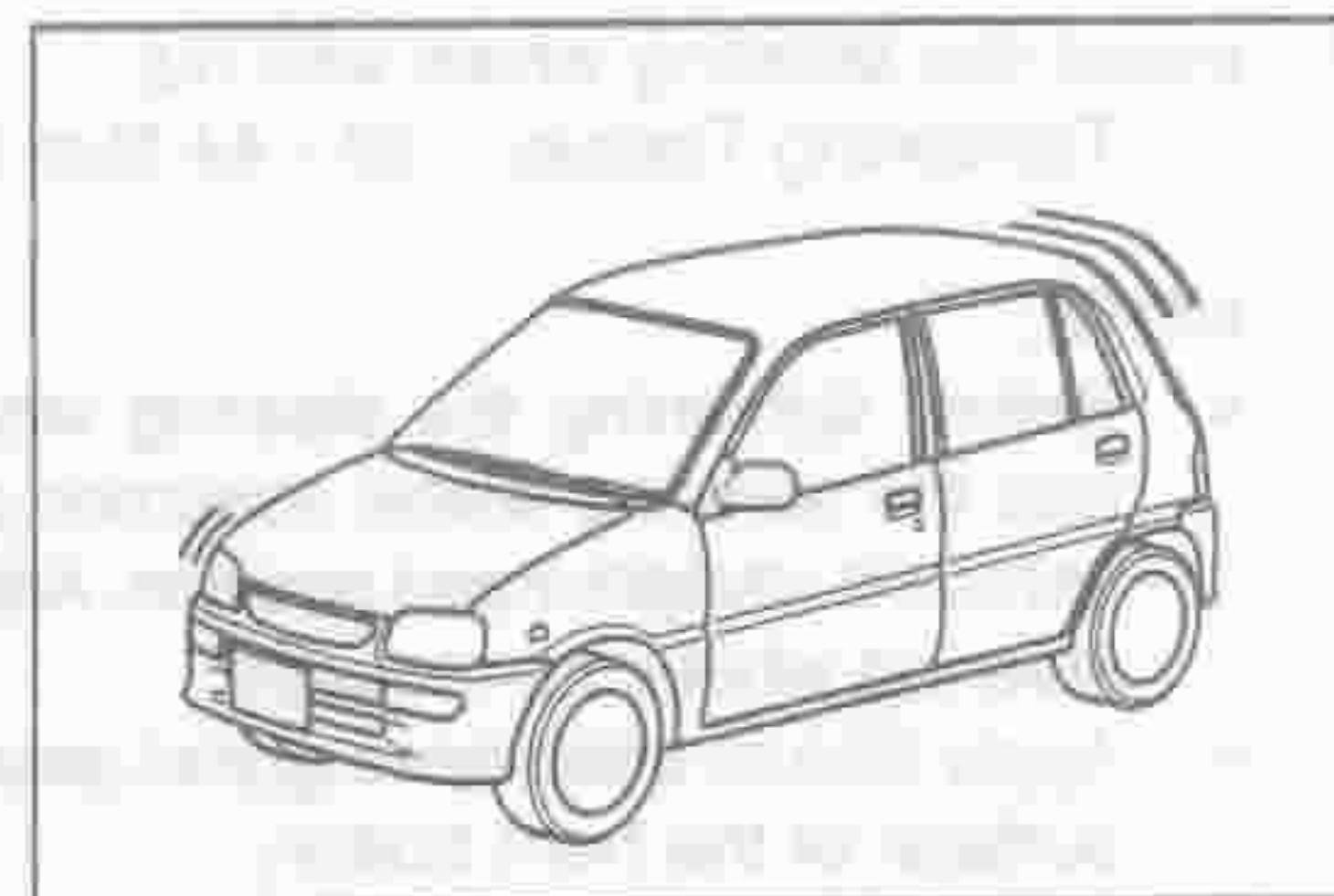
Tire size	Front	Rear
145/70R12	180 kPa	180 kPa

LBE00080-00000

5. Rock the vehicle in up-&-down and right-&-left directions so that the suspensions may support the load evenly and the vehicle may assume the proper vehicle posture.

NOTE:

- Keep the engine speed at 1500 rpm or more during the aiming adjustment.



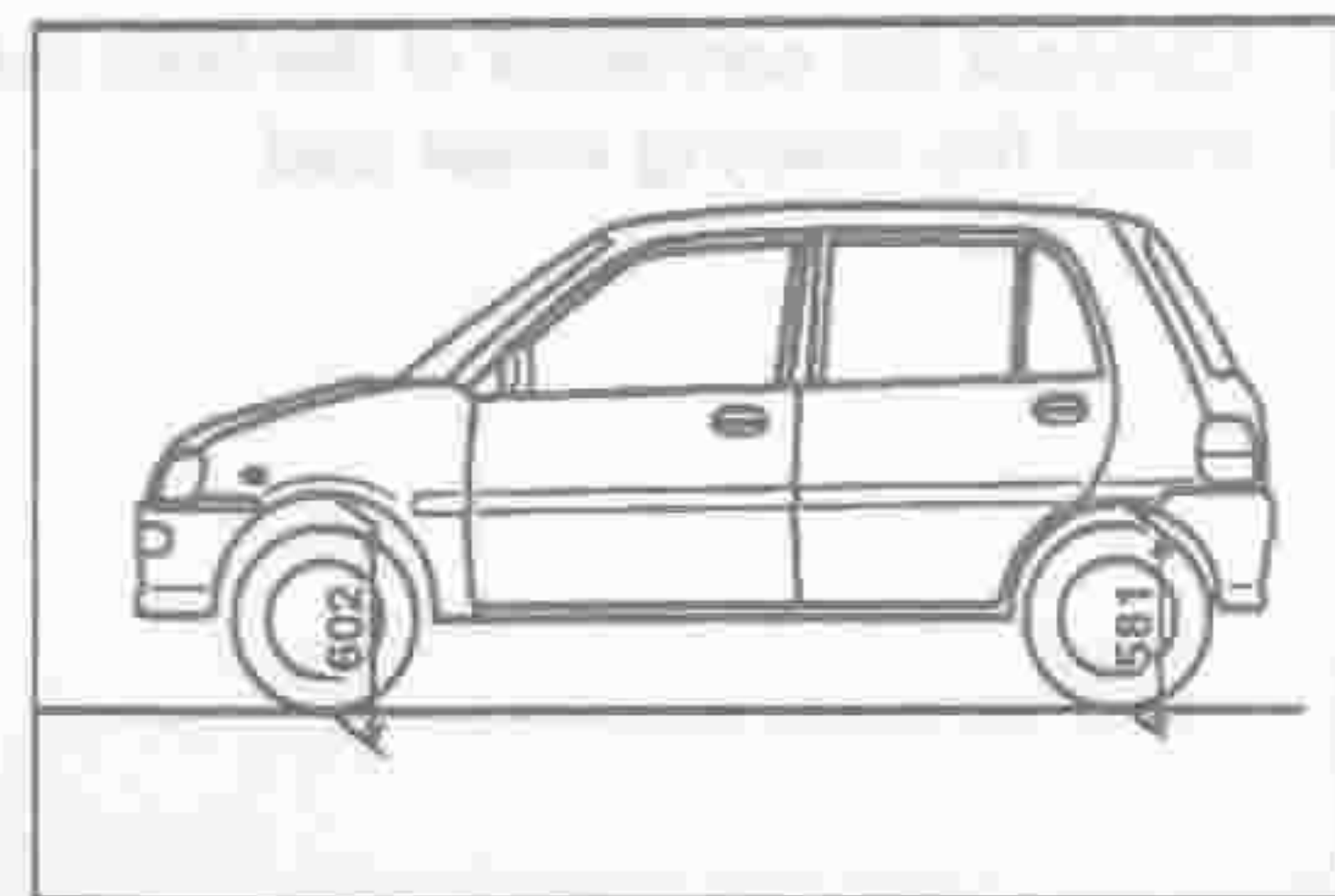
LBE00081-00504

NOTE:

- In case of a vehicle which has the headlamp leveling system, perform this aiming adjustment with the levelling control switch set to the "0" position.
- For your reference, the right figure shows the height of the wheel arch section above the ground level when the vehicle assumes the standard posture.

Front; 602 mm

Rear; 581 mm



LBE00082-00505

6. Setting of reference points on screen

- a. Measure the center height "H" of the headlamps. (At 3 m from the lamp)

Draw an adjustment line on the screen at ;

- L.H.D vehicle ; 31 mm below the center height "H."
- R.H.D vehicle ; 31 mm below the center height "H."
- Vehicle with headlamp levelling system ; 36 mm below the center height "H."

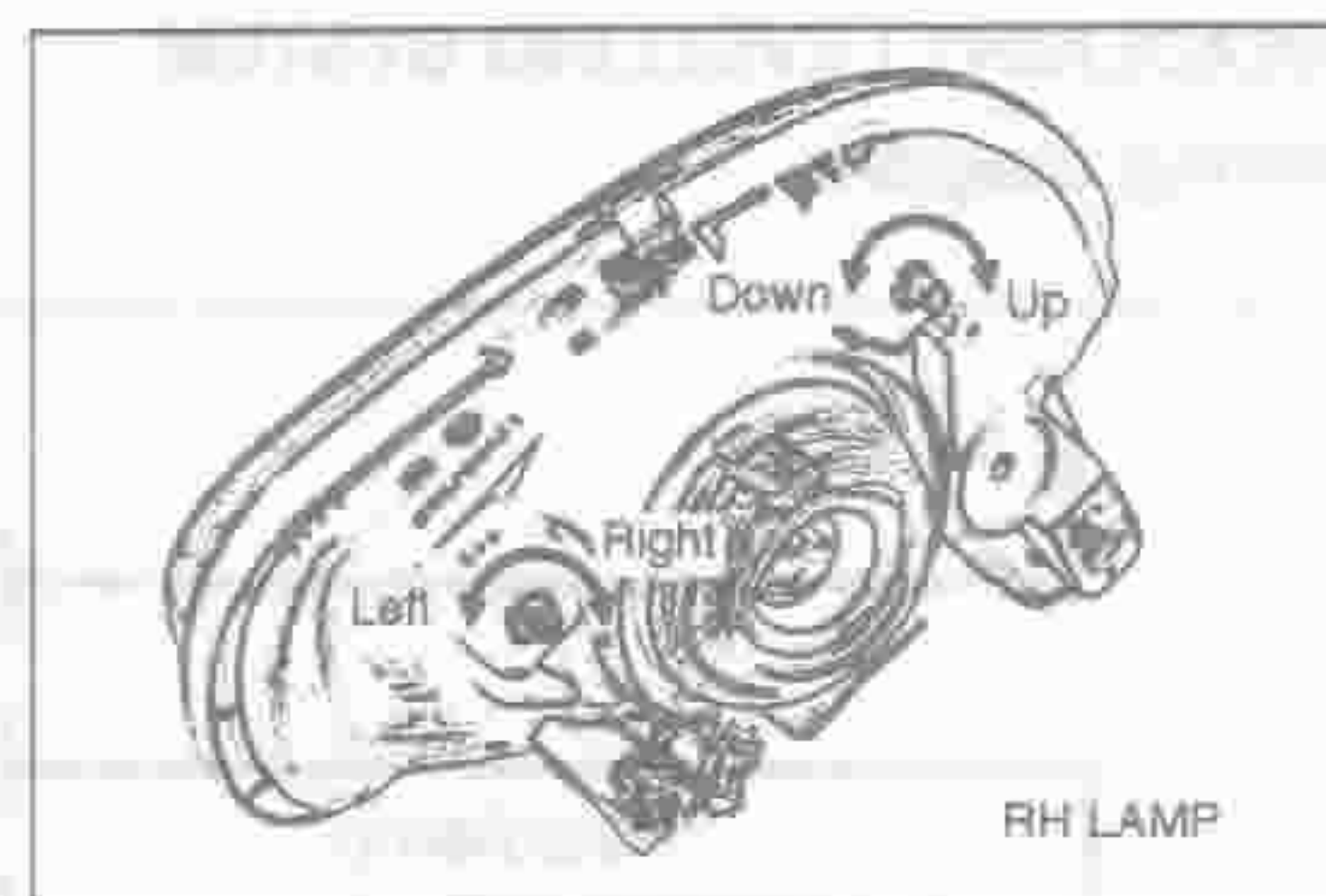
- b. Draw a vertical straight line on the screen at each center of the headlamps on both right and left sides. Thus, establish each intersection "F" made by the vertical center line and the adjustment line.

- c. Ensure that the photometric axis moves down ward when the headlamp levelling switch is turned 0-1-2-3.

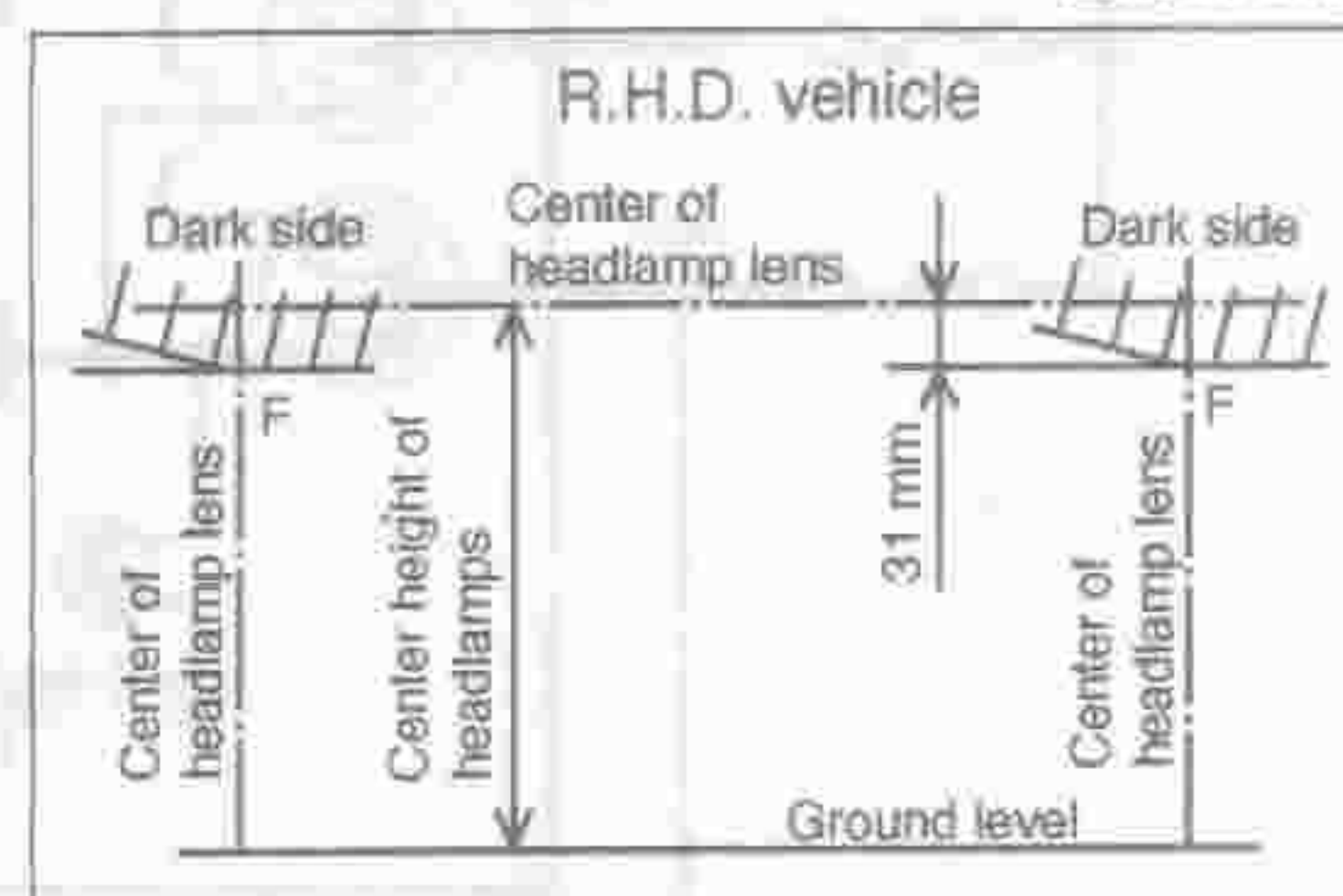
Position	Stroke
0 - 1	40 mm
1 - 2	43 mm
2 - 3	43 mm

NOTE:

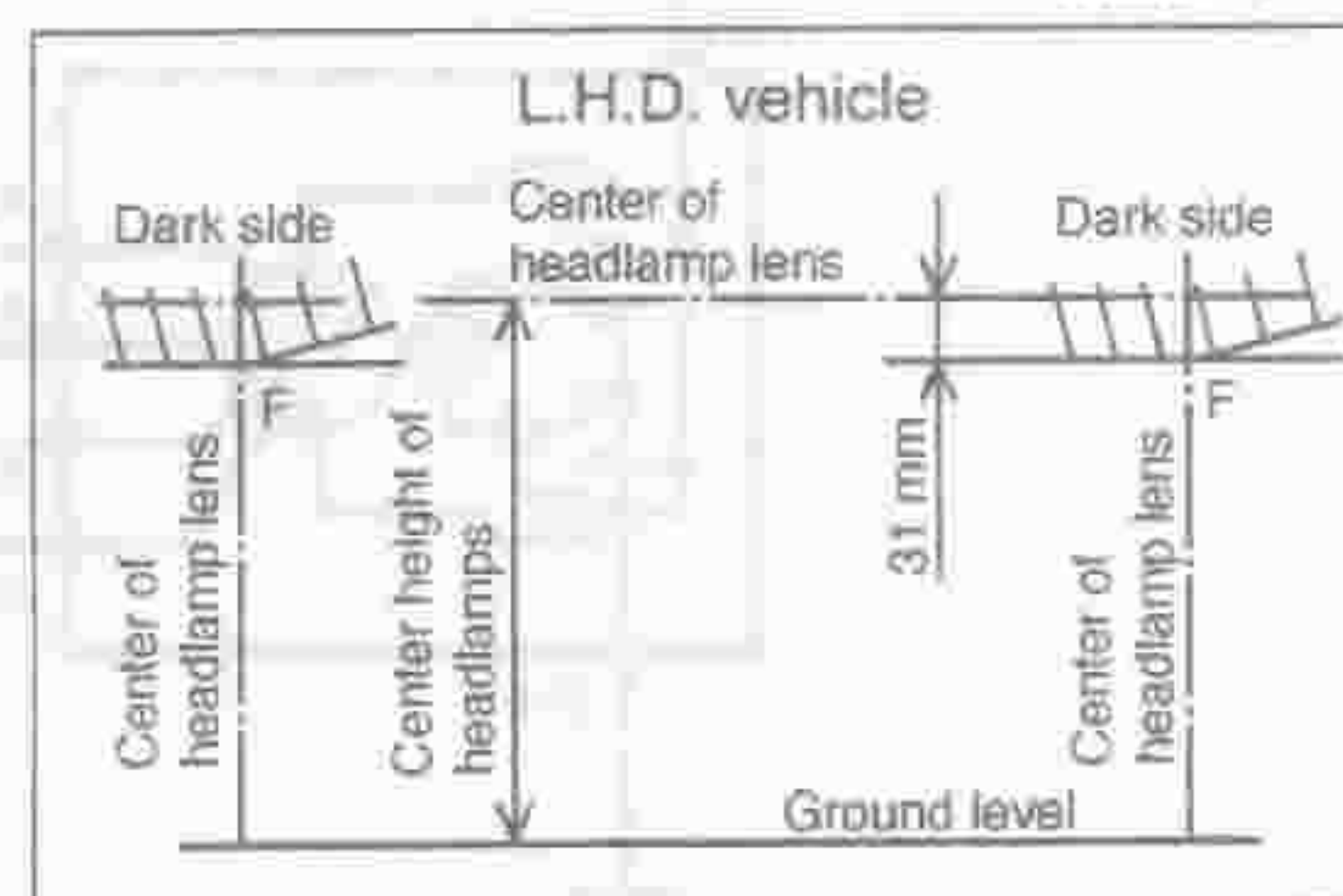
- The headlamp levelling system functions only when the headlamp switch is turned ON.



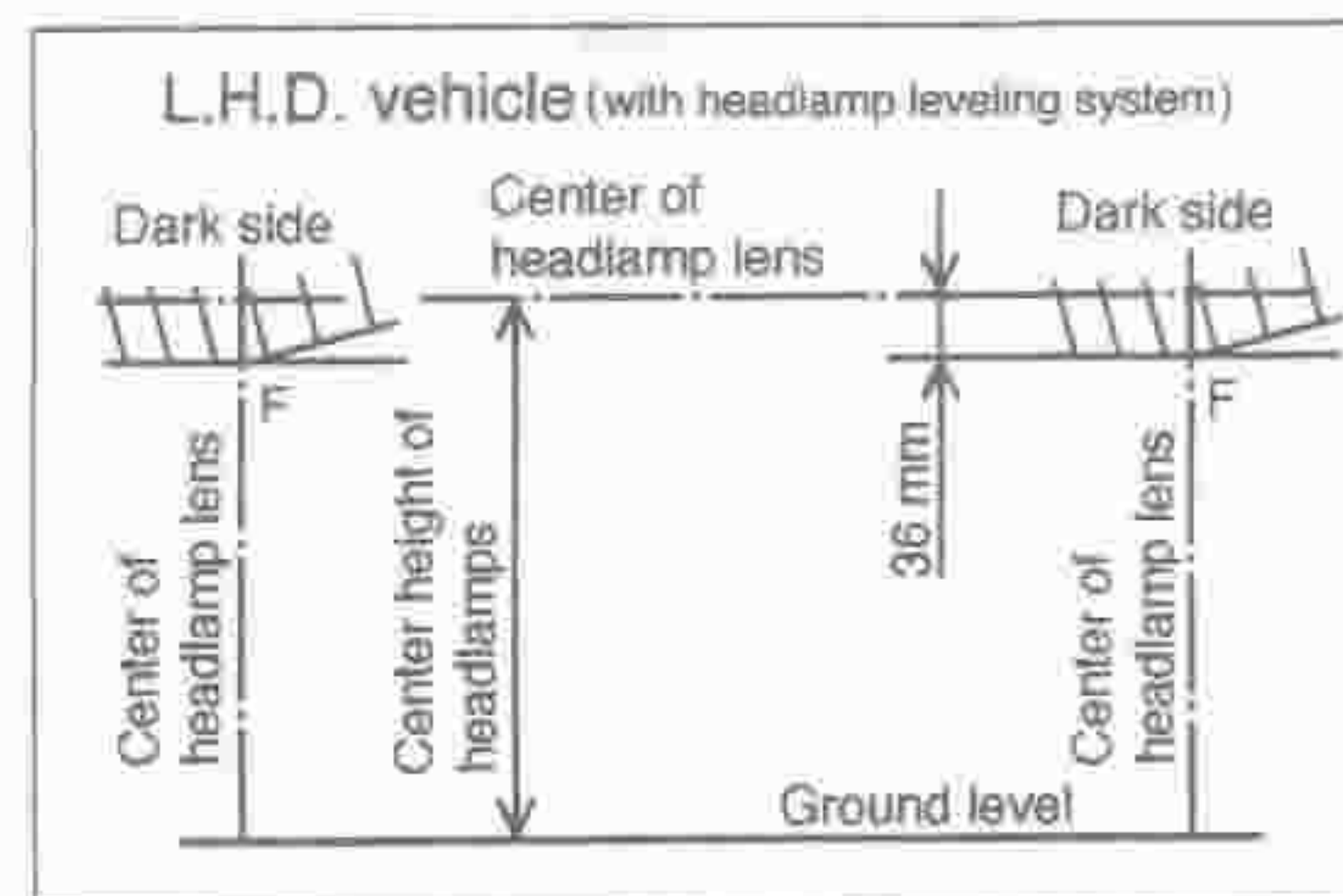
LBE00083-00506



LBE00084-00507



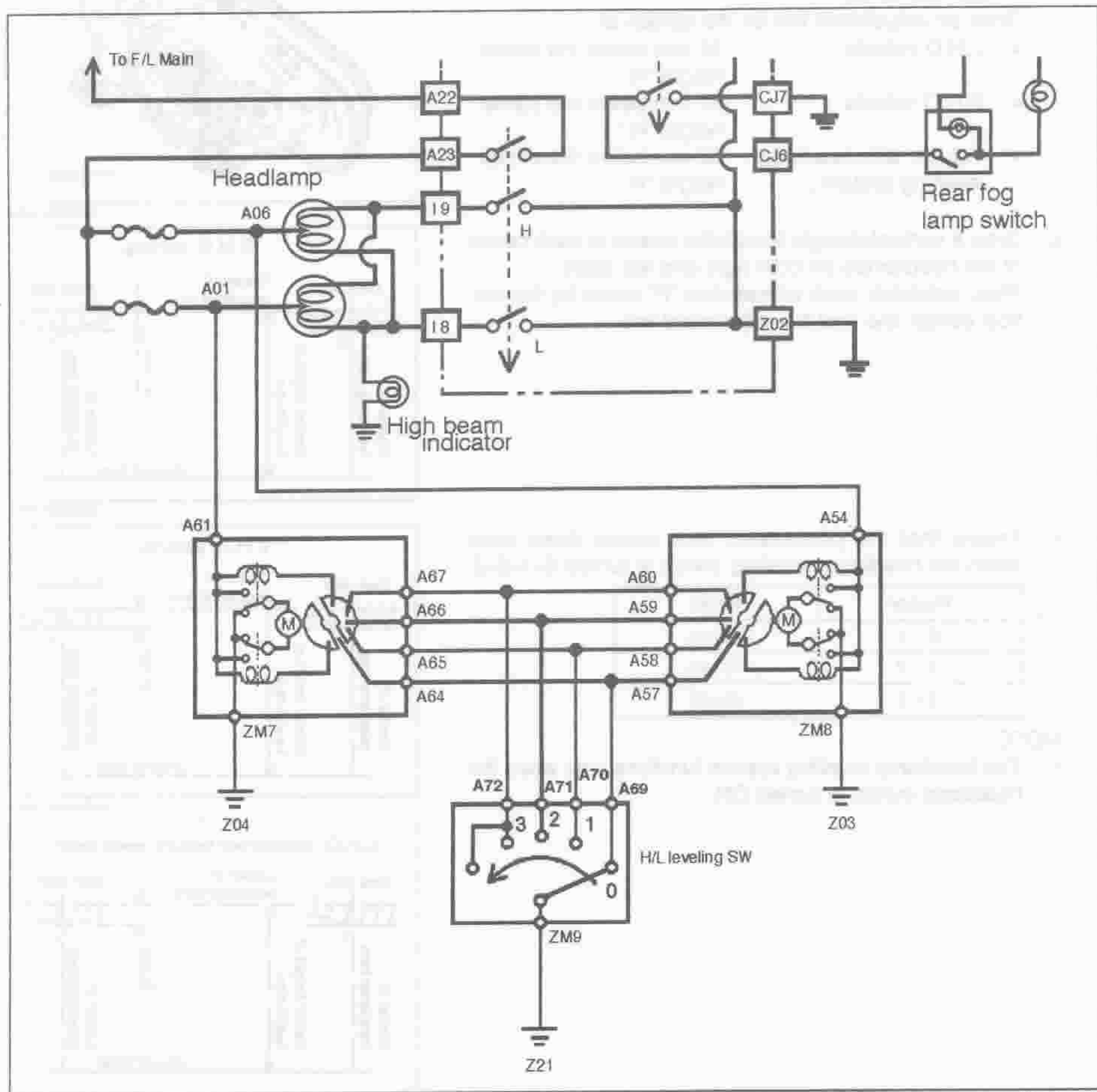
LBE00085-00508



LBE00086-00509

HEADLIGHT LEVELLING SYSTEM

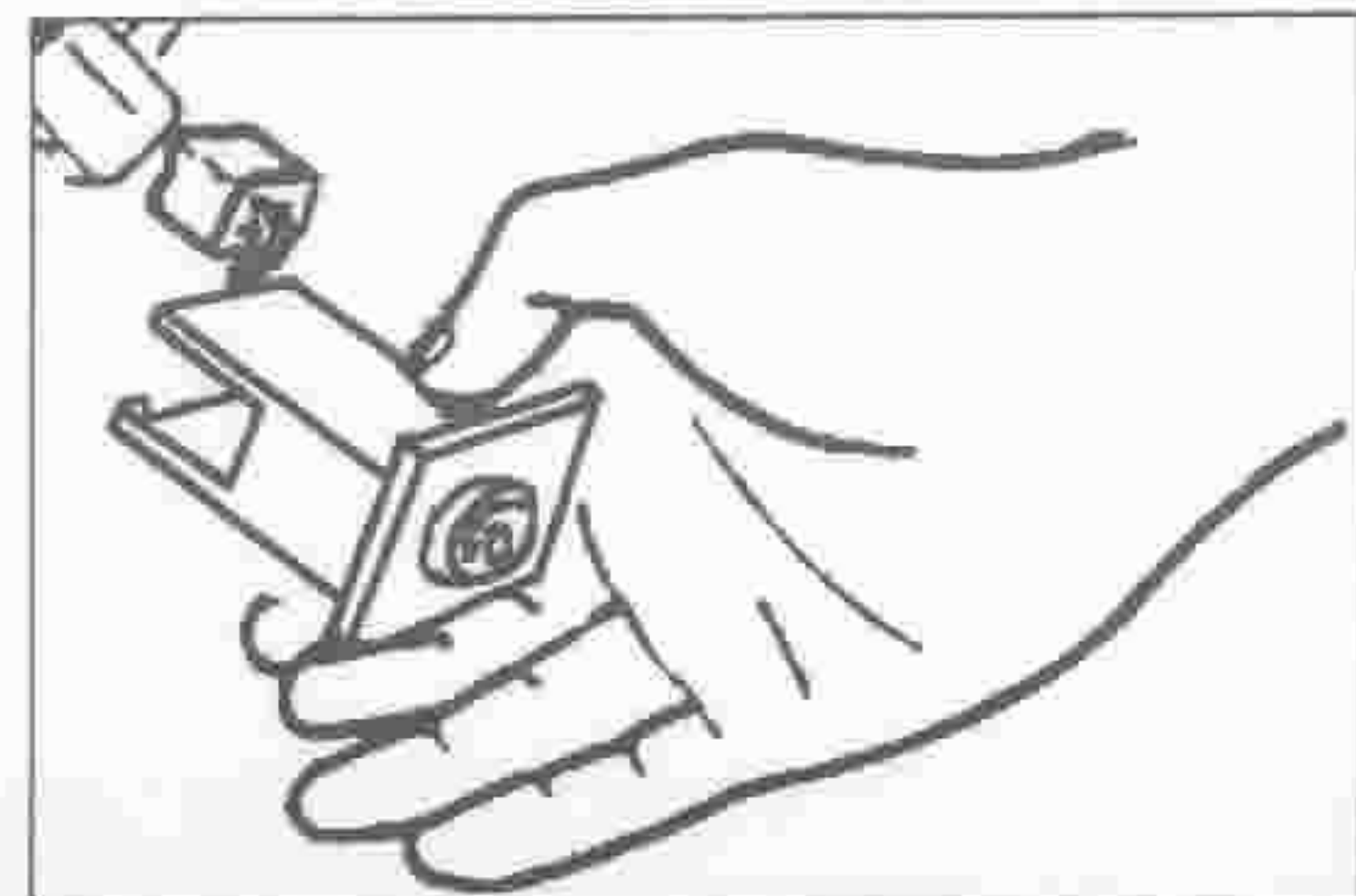
Wiring diagram



LBE00086-00520

Removal of switch

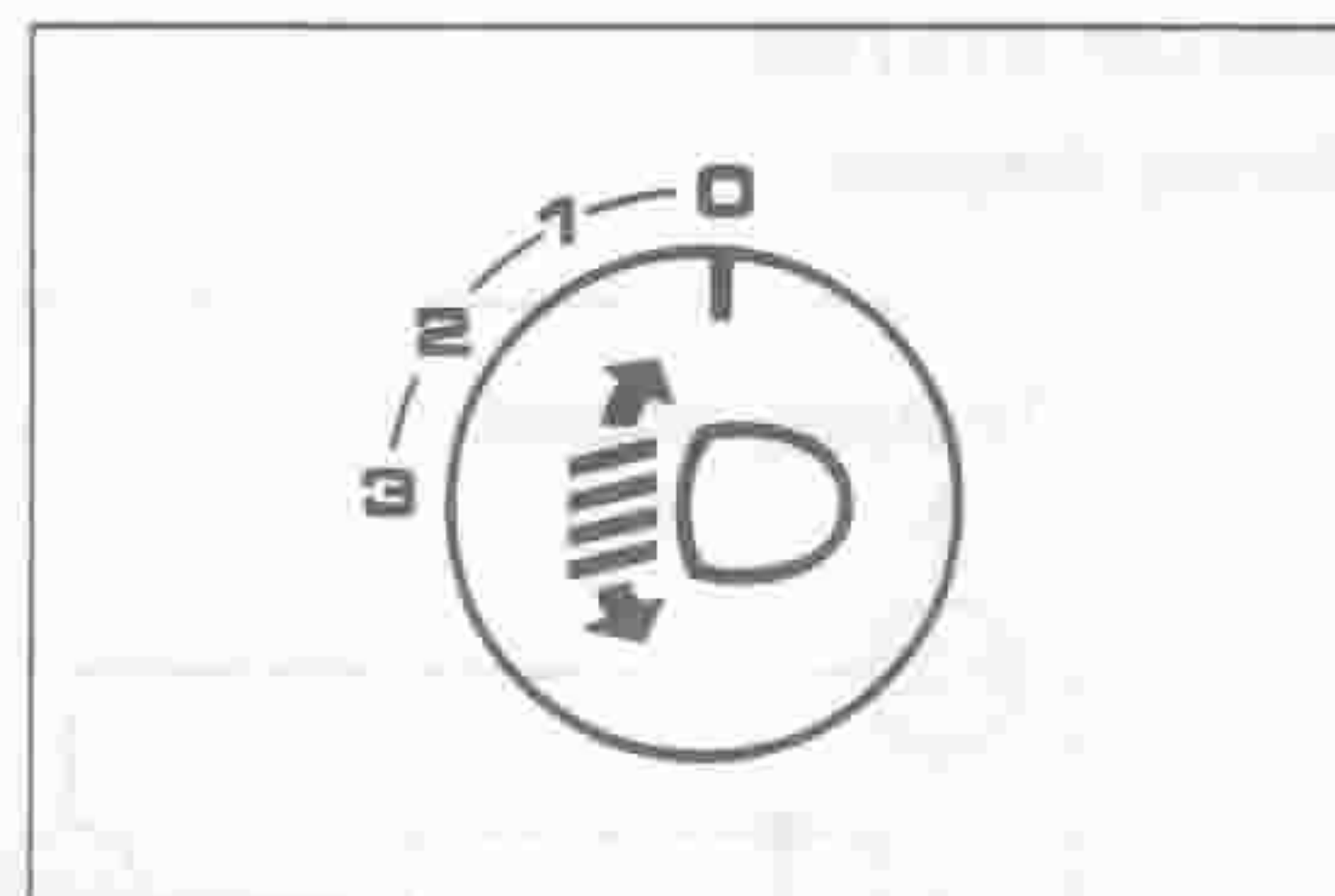
1. Remove the headlamp leveling switch by pushing it with your fingers at the back side of the instrument panel.
2. Disconnect the connector of the wire harness.
3. Remove the switch assembly from the instrument panel.



LBE00087-00525

LOAD CONDITION AND DIAL POSITION

Load condition	Switch position
A driver	0
2 person in front	0
2 in front and 2 in rear	1
2 in front, 2 in rear and luggage for up to gross vehicle weight	2
A driver and luggage for up to rear axle permissible weight	3

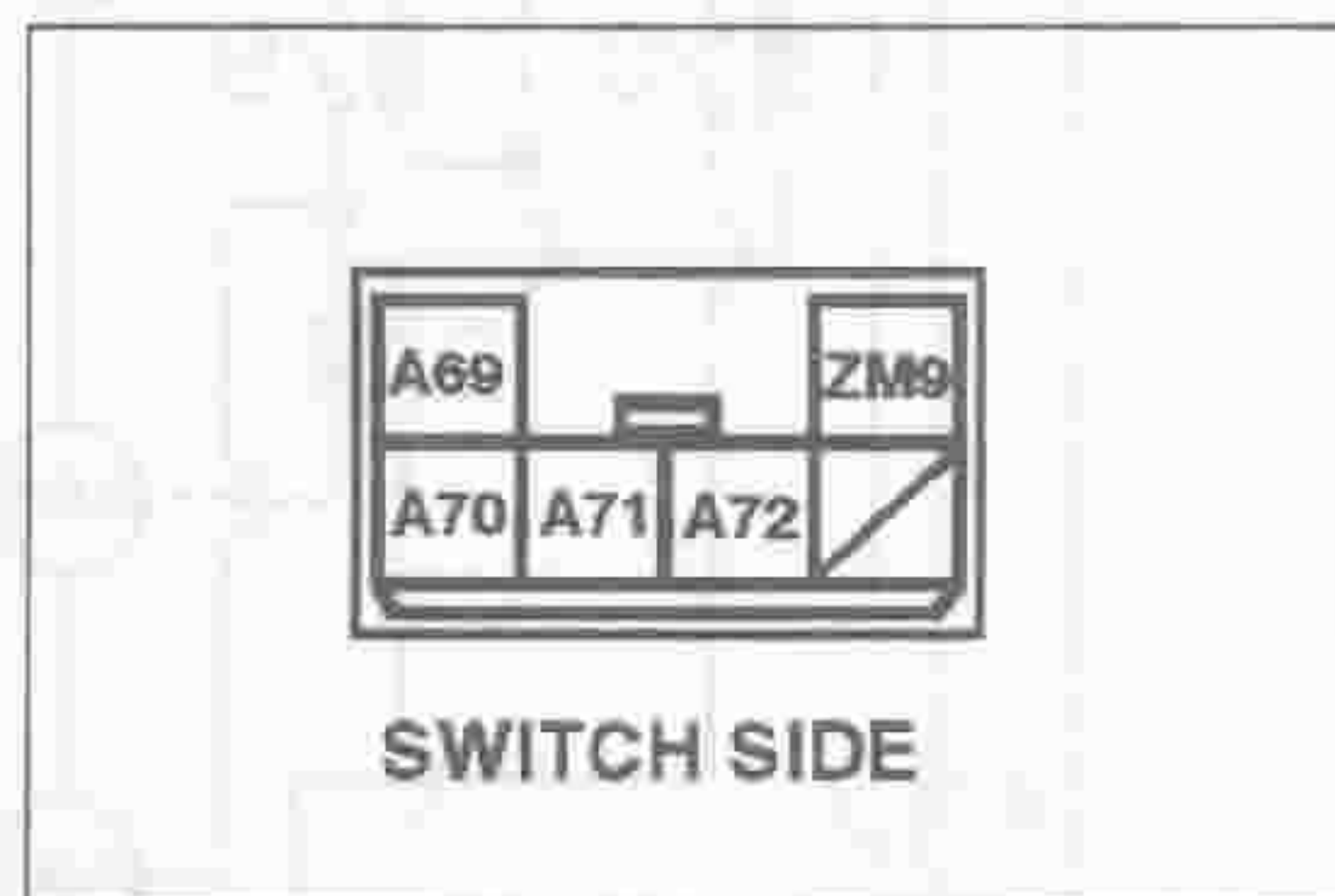


LBE00068-00521

Unit inspection

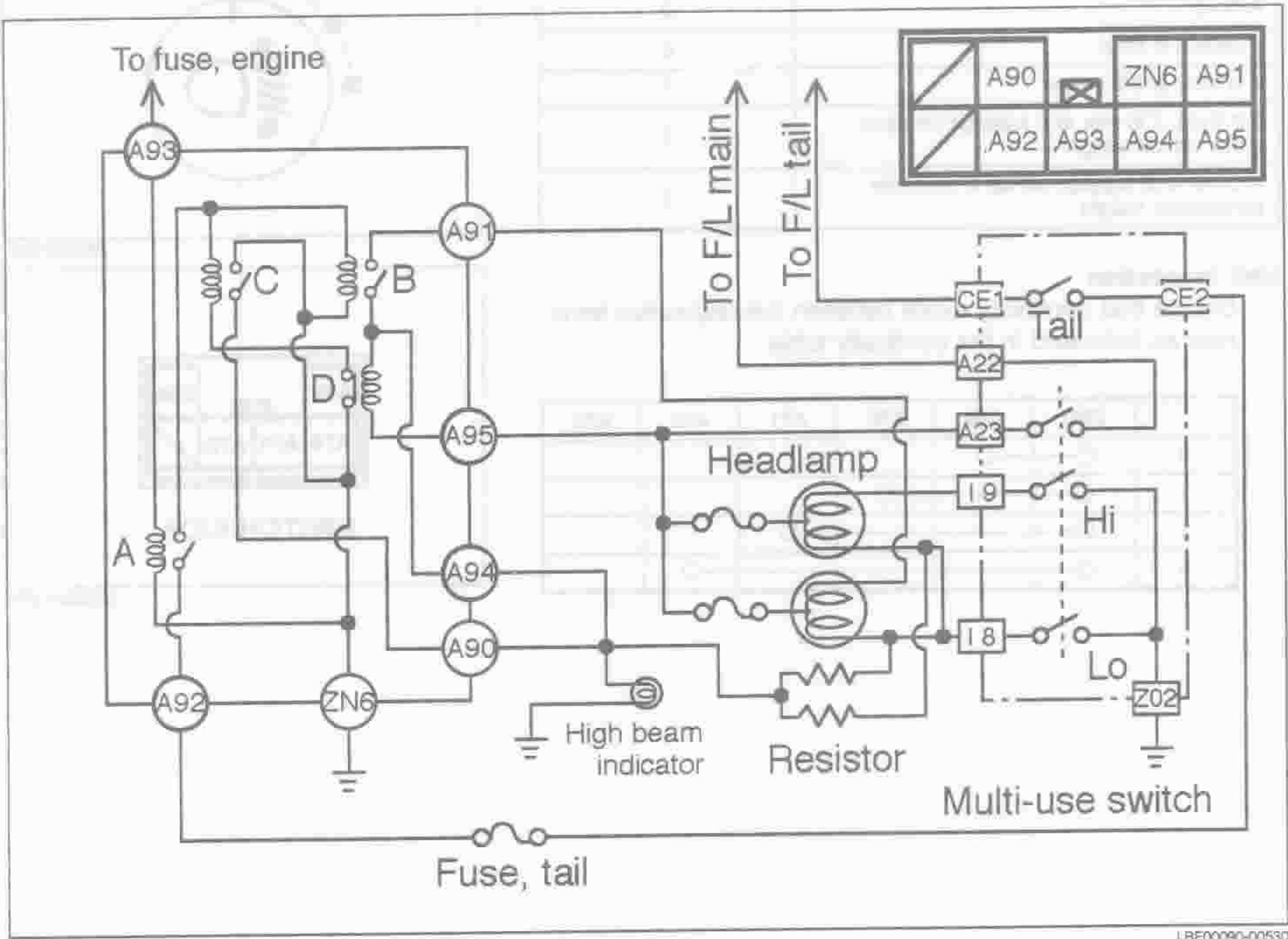
Ensure that continuity exists between the respective terminals as indicated in the continuity table.

	ZM9	A69	A70	A71	A72	A73
0	○	○				
1	○		○			
2	○			○		
3	○				○	



LBE00089-00527

DIM-DIP SYSTEM
Wiring diagram



LBE00090-00530

In-vehicle inspection

Under the conditions given below, ensure that the luminous intensity of the dim-dip lamp is reduced 10 % compared with the normal operation.

Switch condition				Headlamp condition	Remarks
Ignition switch	tail switch	Lighting switch L	Lighting switch H		
OFF	OFF	OFF	OFF	OFF	Tail lamp only goes on
	ON	OFF	OFF	OFF	
	ON	ON	OFF	Lo	
	ON	OFF	ON	Hi	
	OFF	OFF	ON	Hi	Passing
ON	OFF	OFF	OFF	OFF	
	ON	OFF	OFF	Dim-dip	
	ON	ON	OFF	Lo	
	ON	OFF	ON	Hi	
	OFF	OFF	ON	Hi	Passing

NOTE:

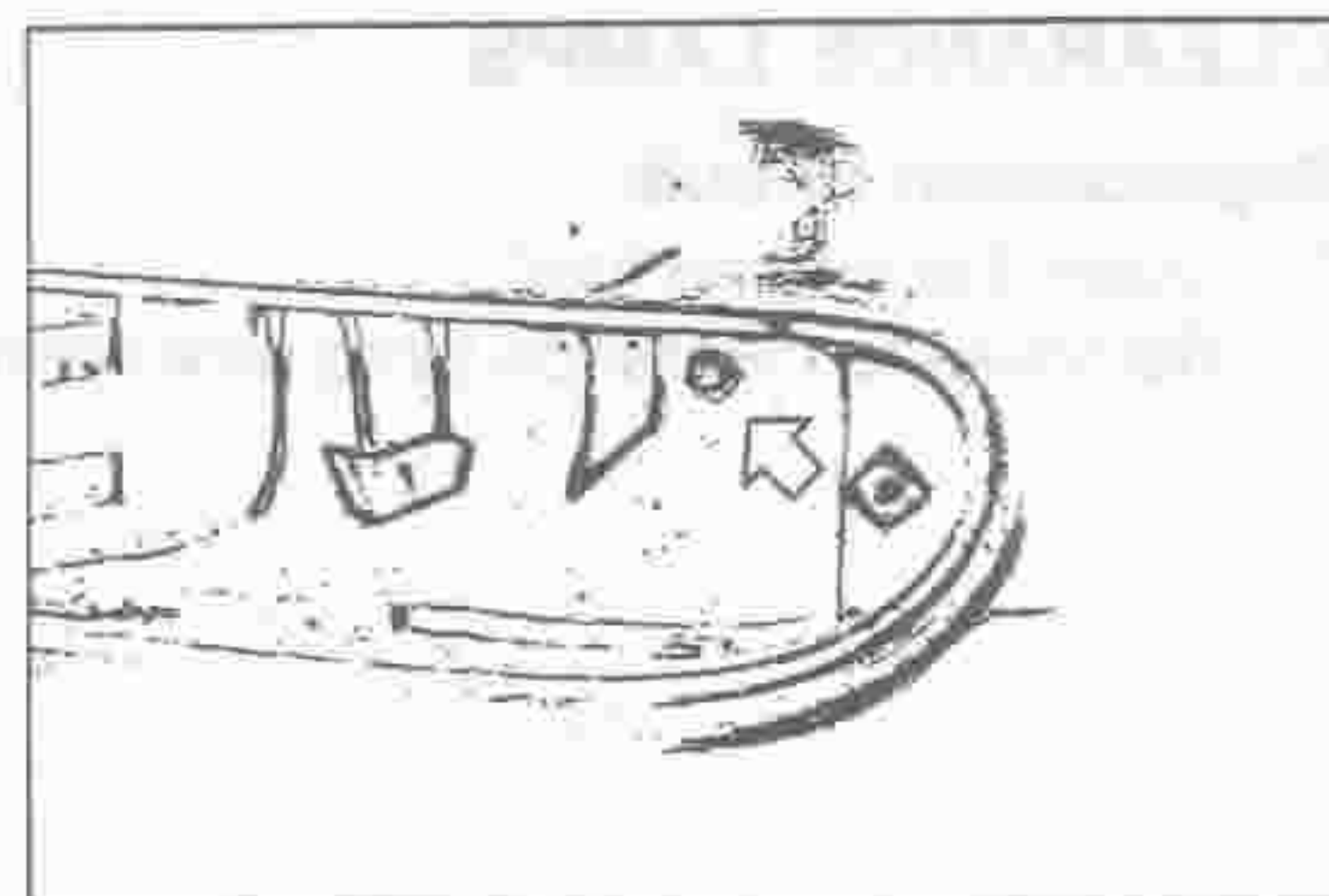
- The installation position of the dim-dip lamp relay is on the pillar to pillar member at the back of the instrument panel.

LBE00091-00000

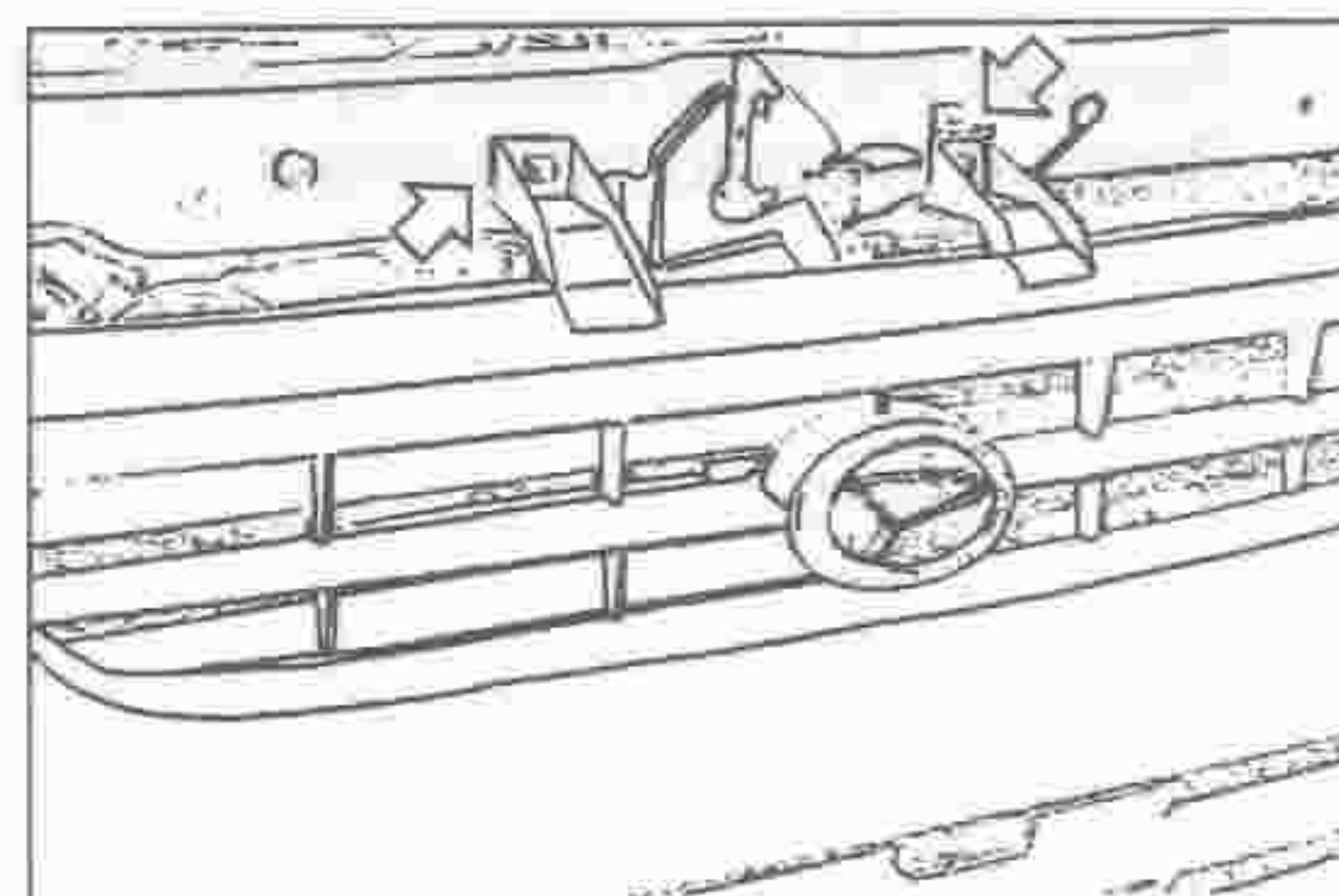
Removal

Resistor

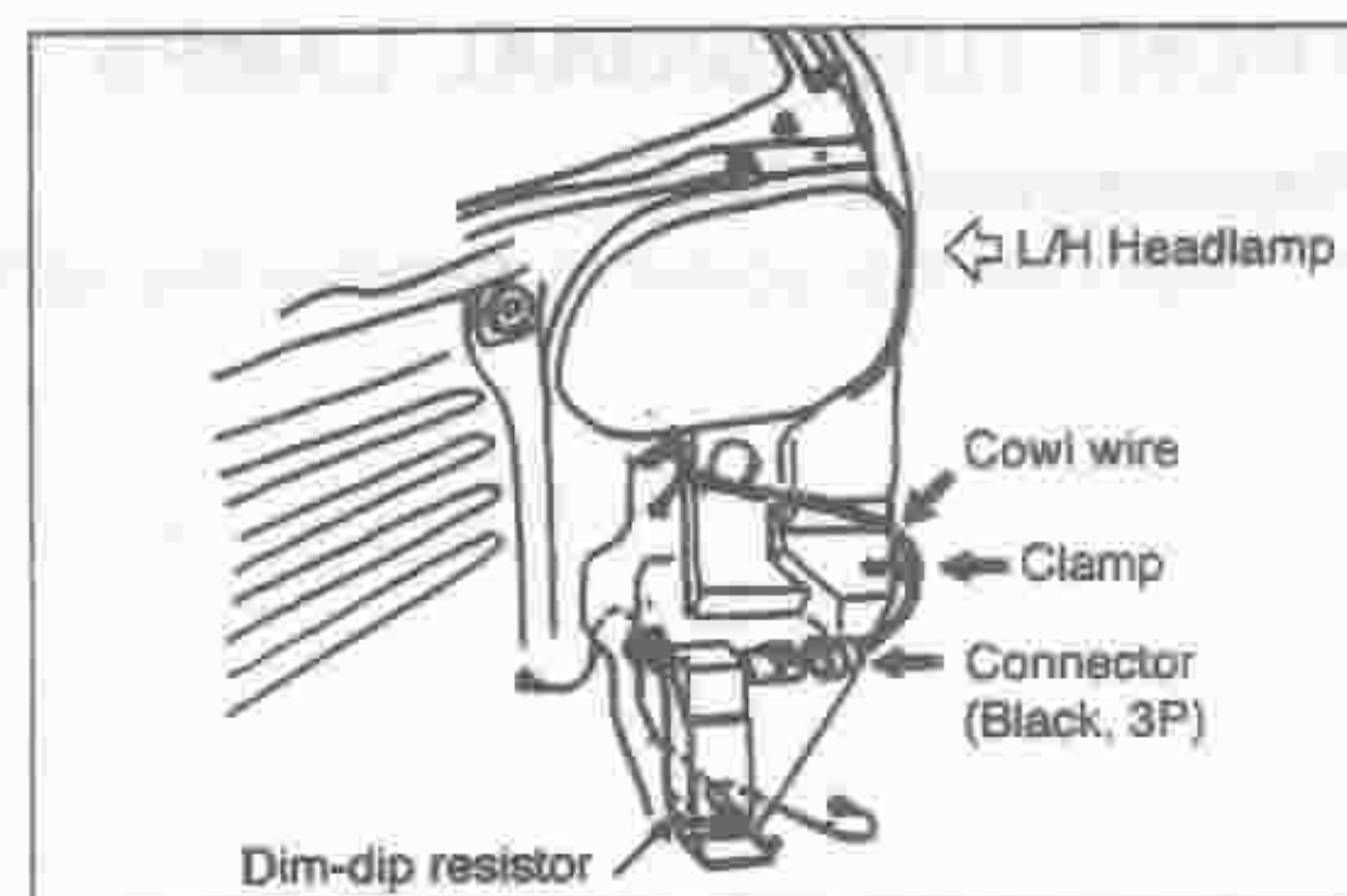
1. Remove the screw to remove the front turn signal lamp.
2. Remove the attaching bolt to remove the front bumper.
Remove the attaching bolt from the fender.
Remove the attaching center bolt of the bumper.
3. Remove the radiator grill hanger from the radiator upper center support.
4. Pull the bumper toward you. Remove the bumper from the body.



LBE00092-00534



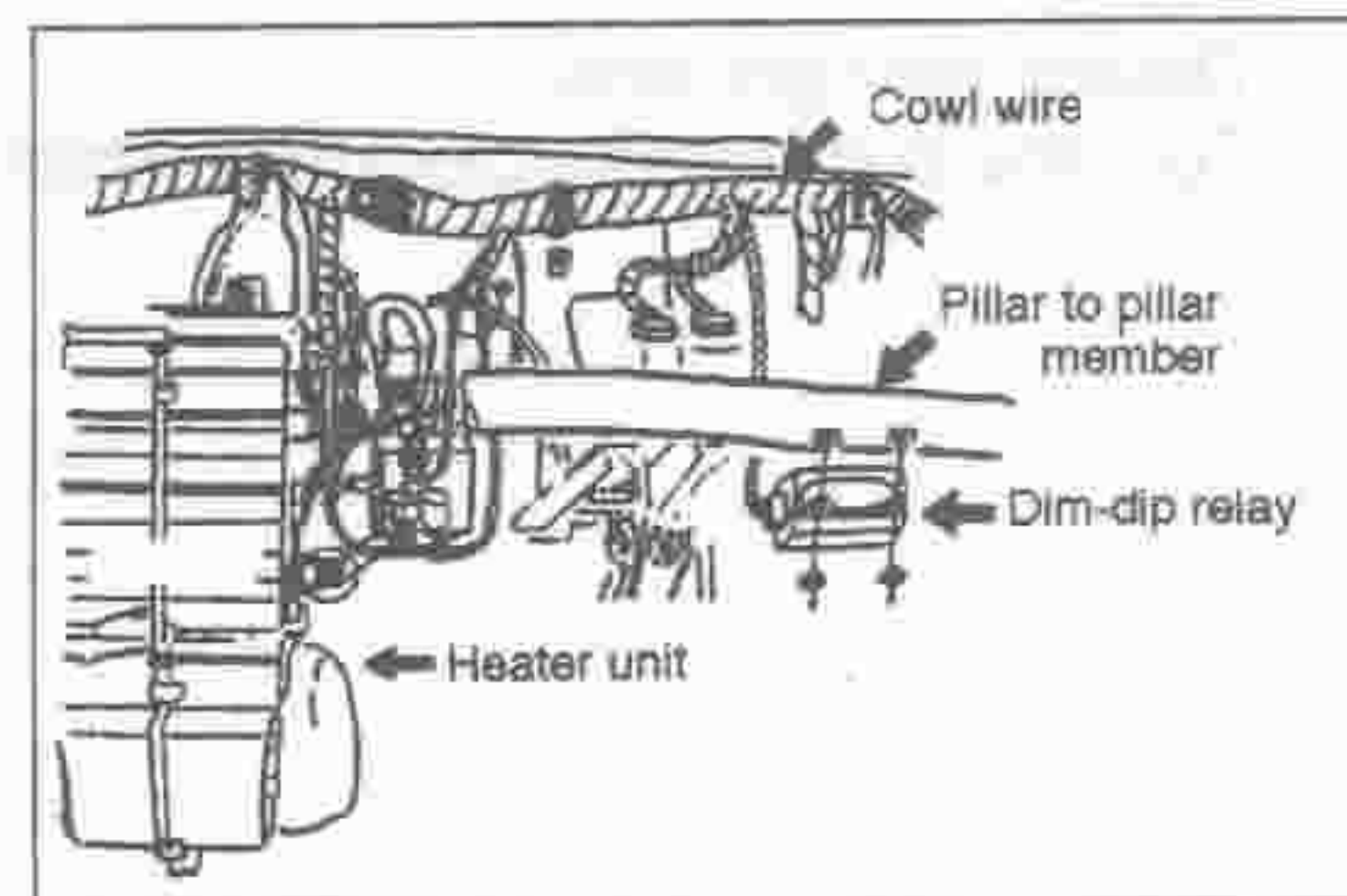
LBE00093-00535



LBE00000-00536

Dim-dip relay

The installation position of the dim-dip lamp relay is on the pillar to pillar member, inside of the instrument panel.

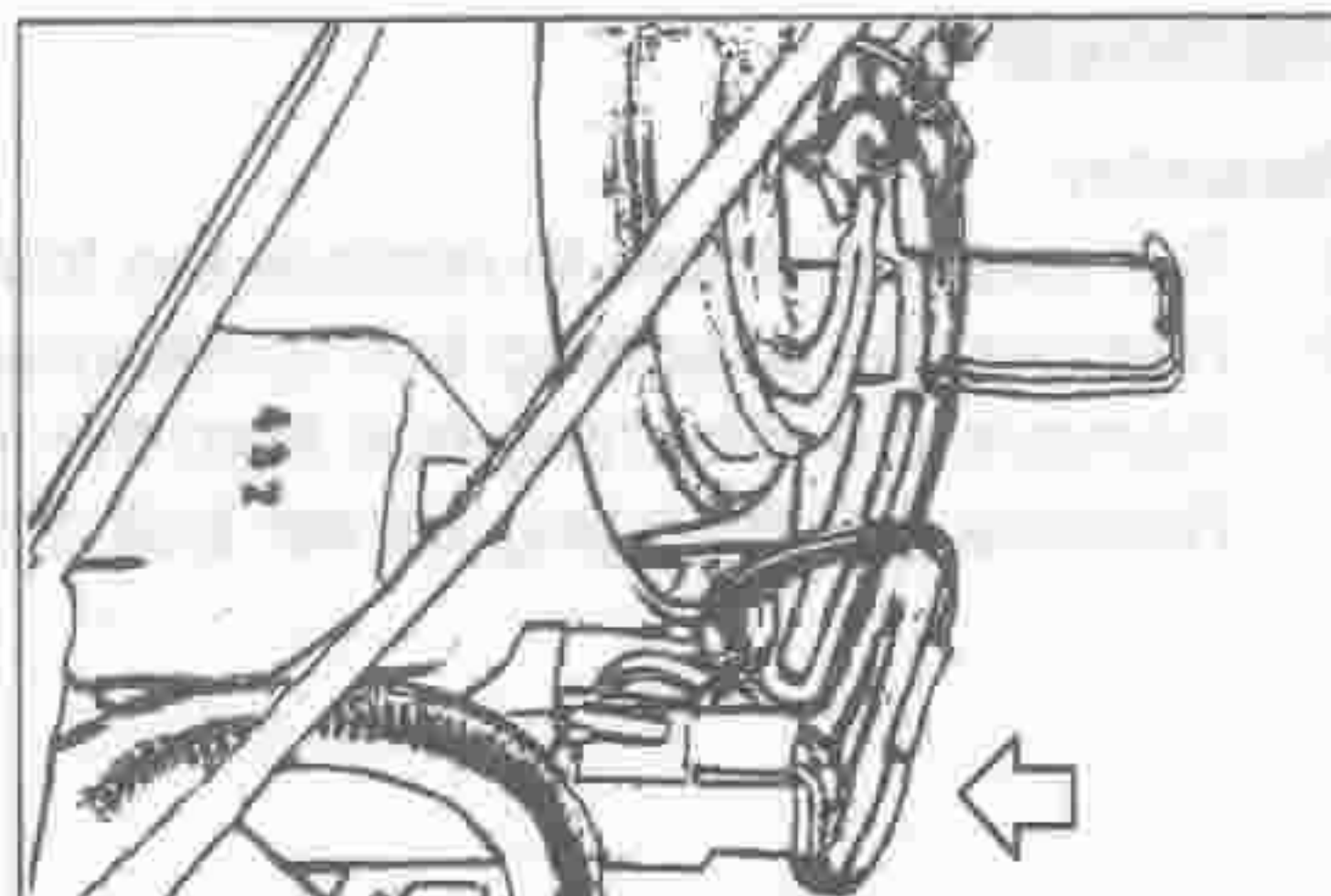


LBE00094-00538

CLEARANCE LAMPS

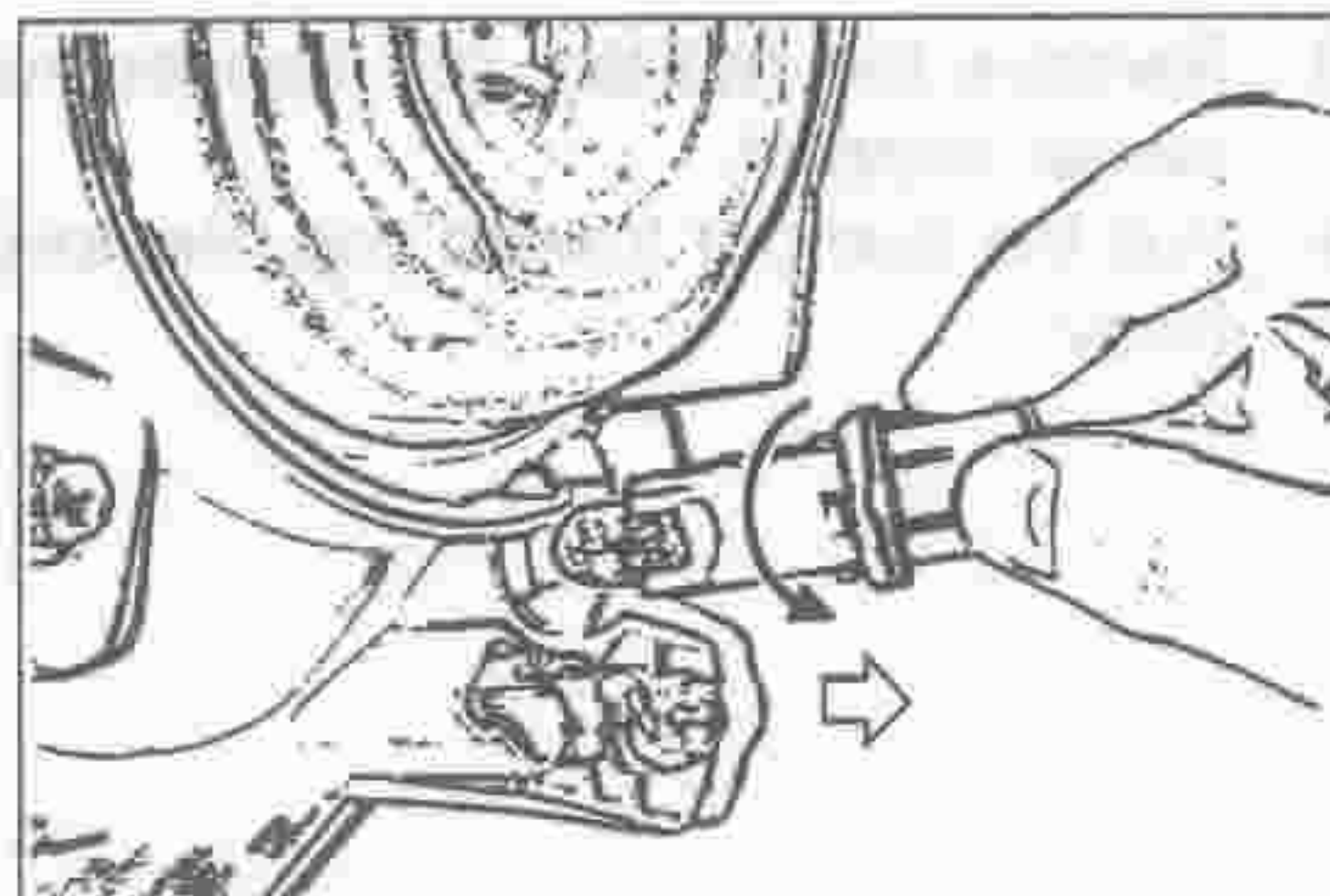
Replacement of bulb

1. Open the engine food.
2. Remove the clearance lamp wire connector from the holder.



LBE00095-00545

3. Remove the bulb holder by turning it counterclockwise.
4. Remove the bulb by pulling it.

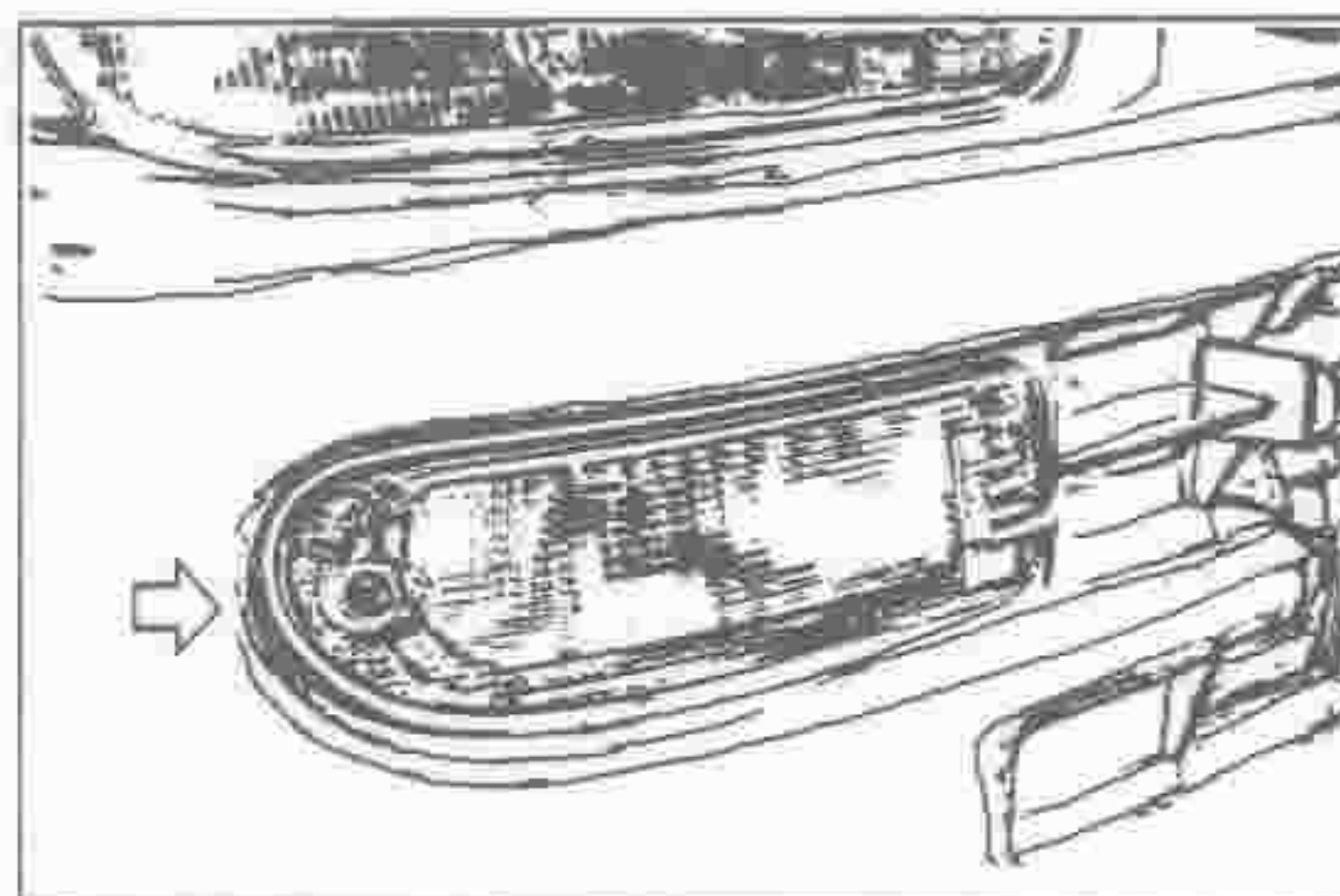


LBE00096-00546

FRONT TURN SIGNAL LAMPS

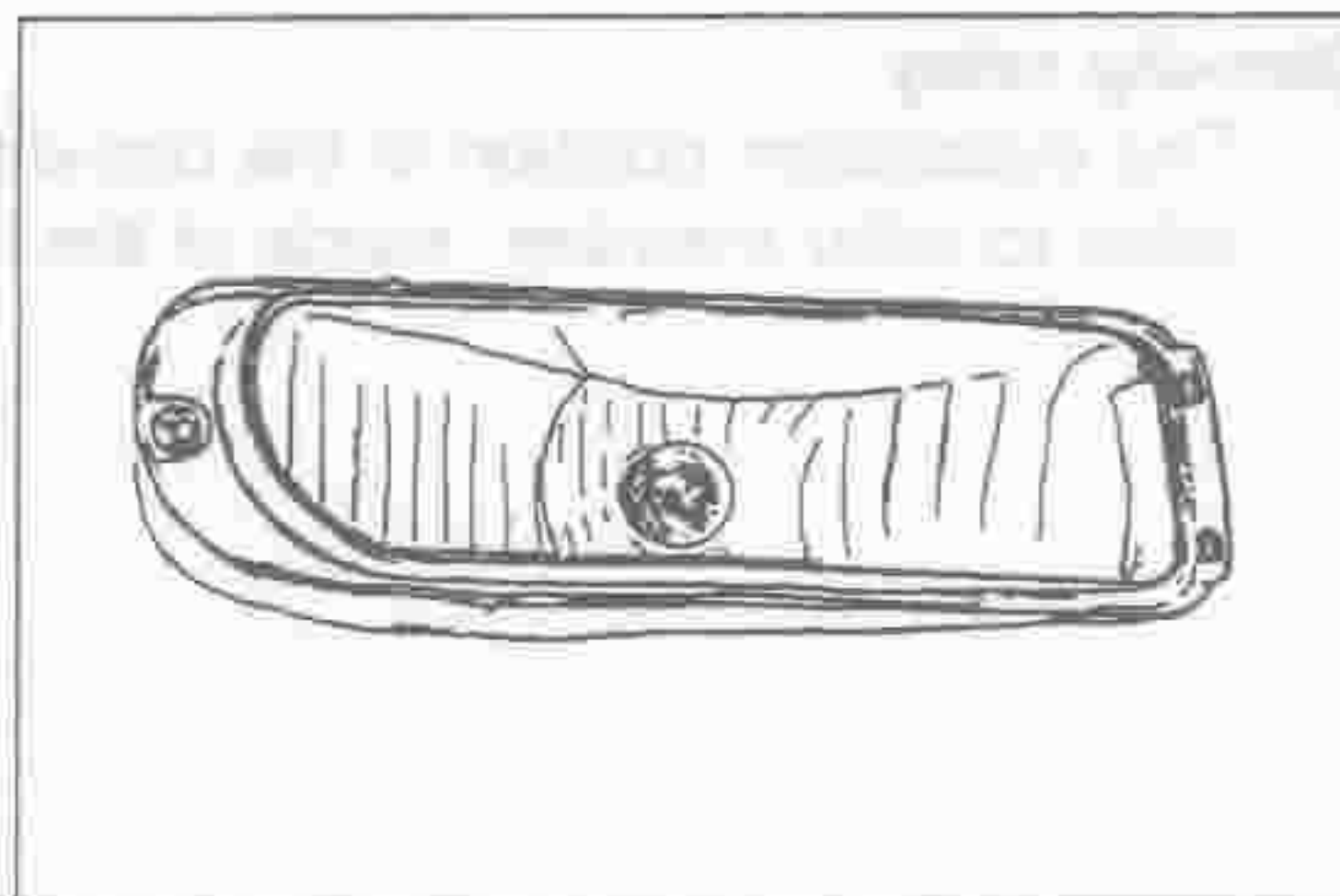
Replacement of bulb

1. Remove the screw to remove the light assembly.



LBE00097-00547

2. Detach the light lens.
3. Turn the bulb counterclockwise while pushing it.

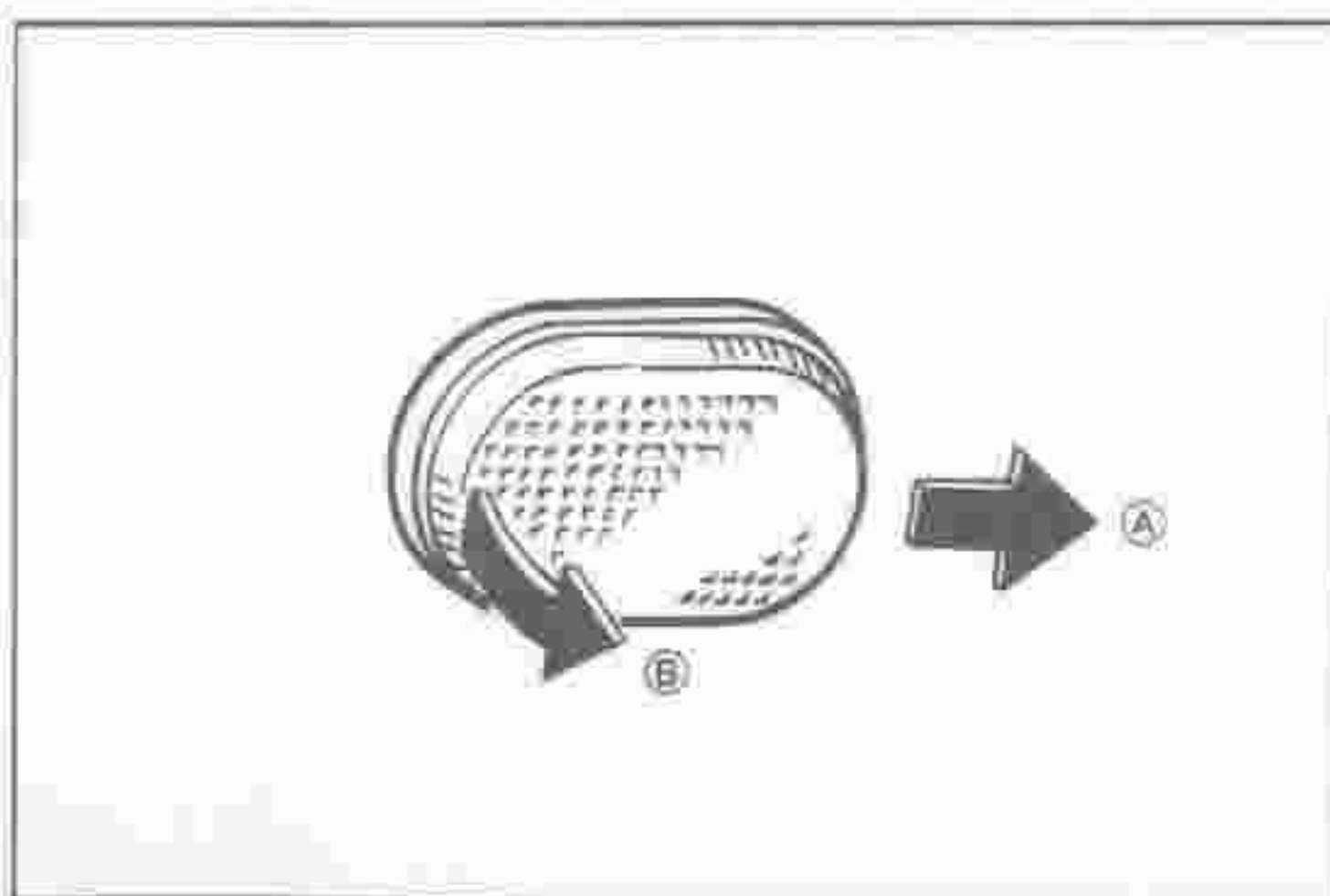


LBE00098-00548

SIDE TURN SIGNAL LAMP

Replacement of bulb

1. Pull the side turn signal light in the direction B while pushing it in the direction A.
2. Disconnect the wire connection.

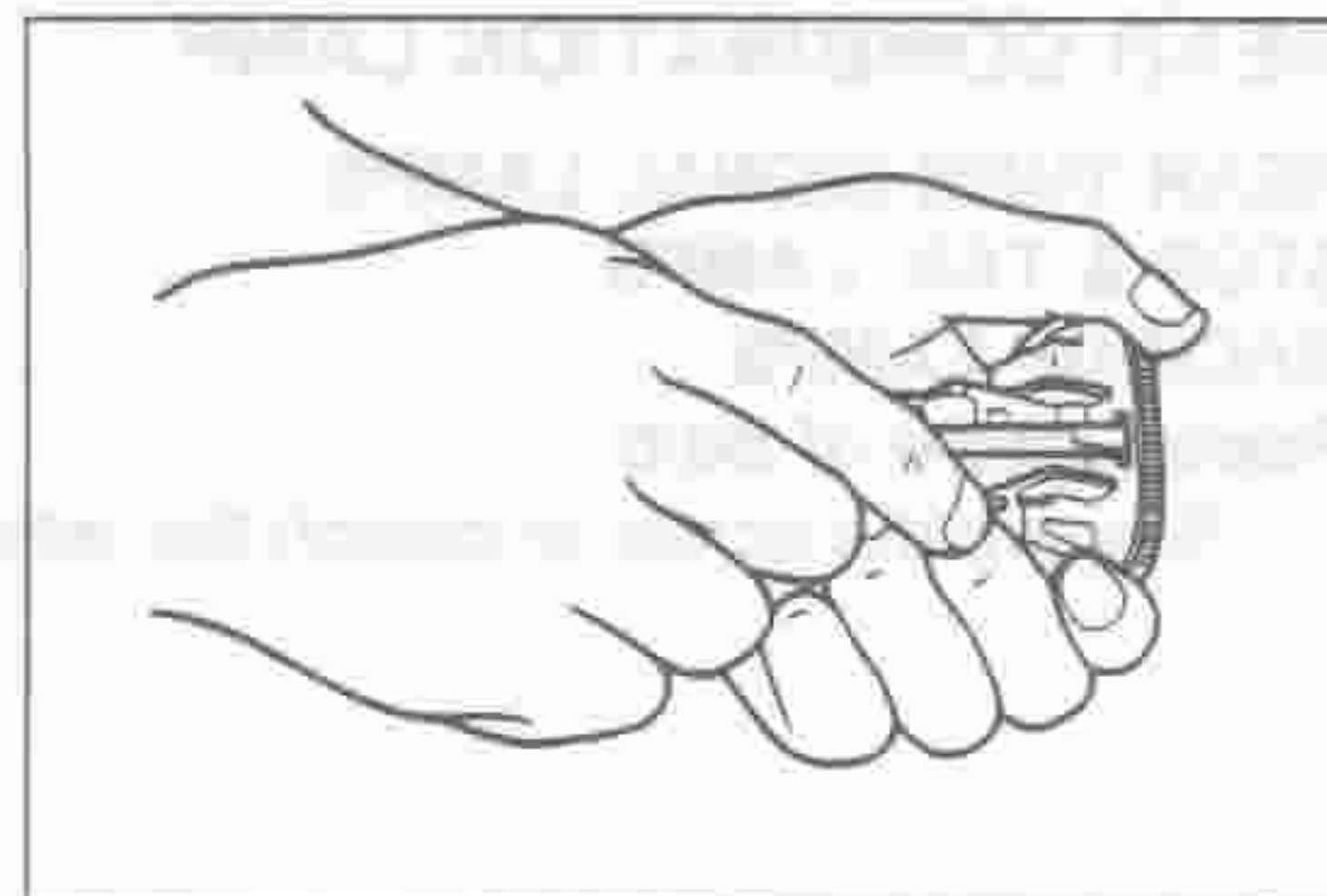


LBE00099-00549

3. Take out the lens by inserting the end of a screwdriver into the water-draining hole of the light case and pushing it strongly.

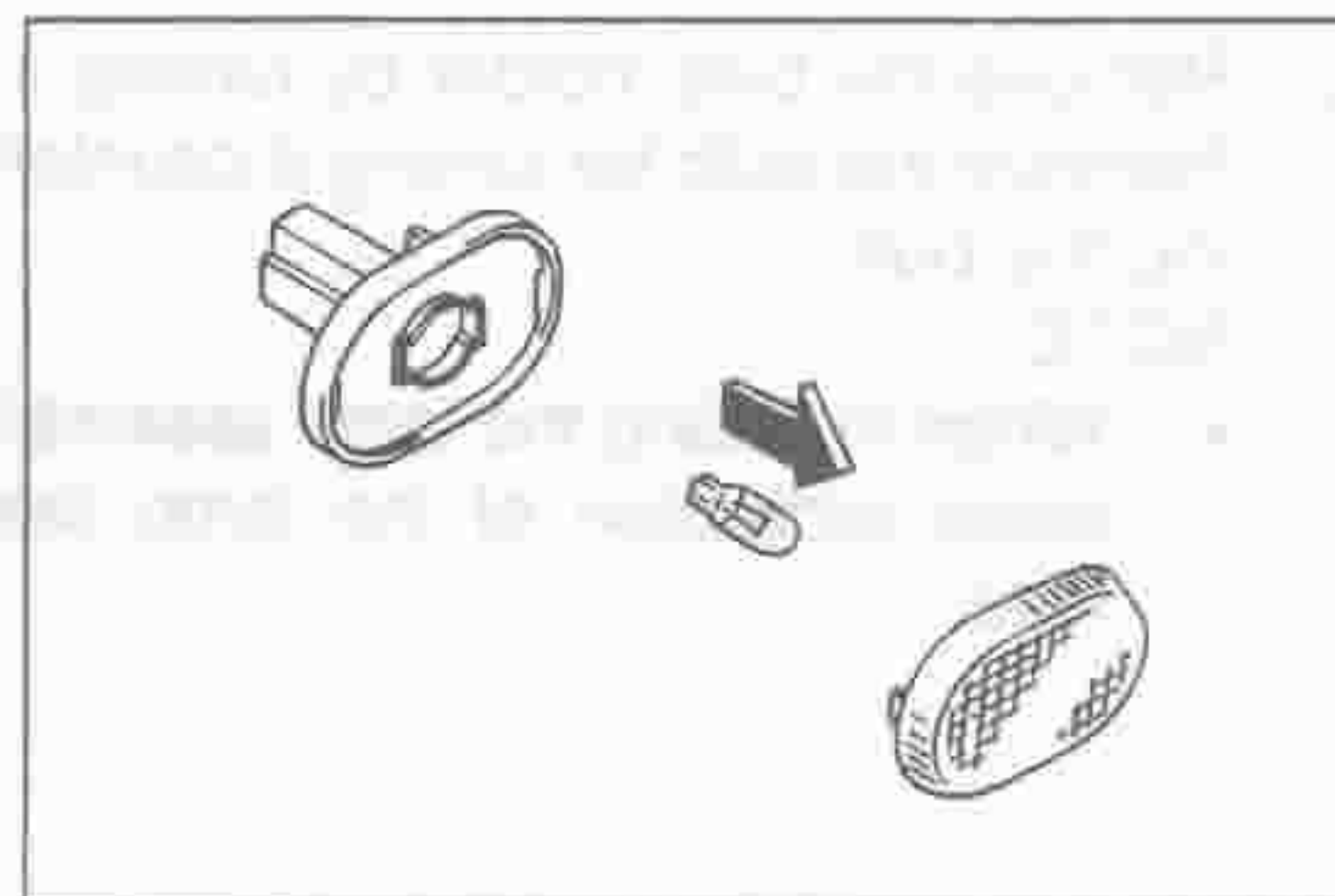
NOTE:

- Be careful not to break or scratch the lens.



LBE00100-00550

4. Pull out the bulb straight.

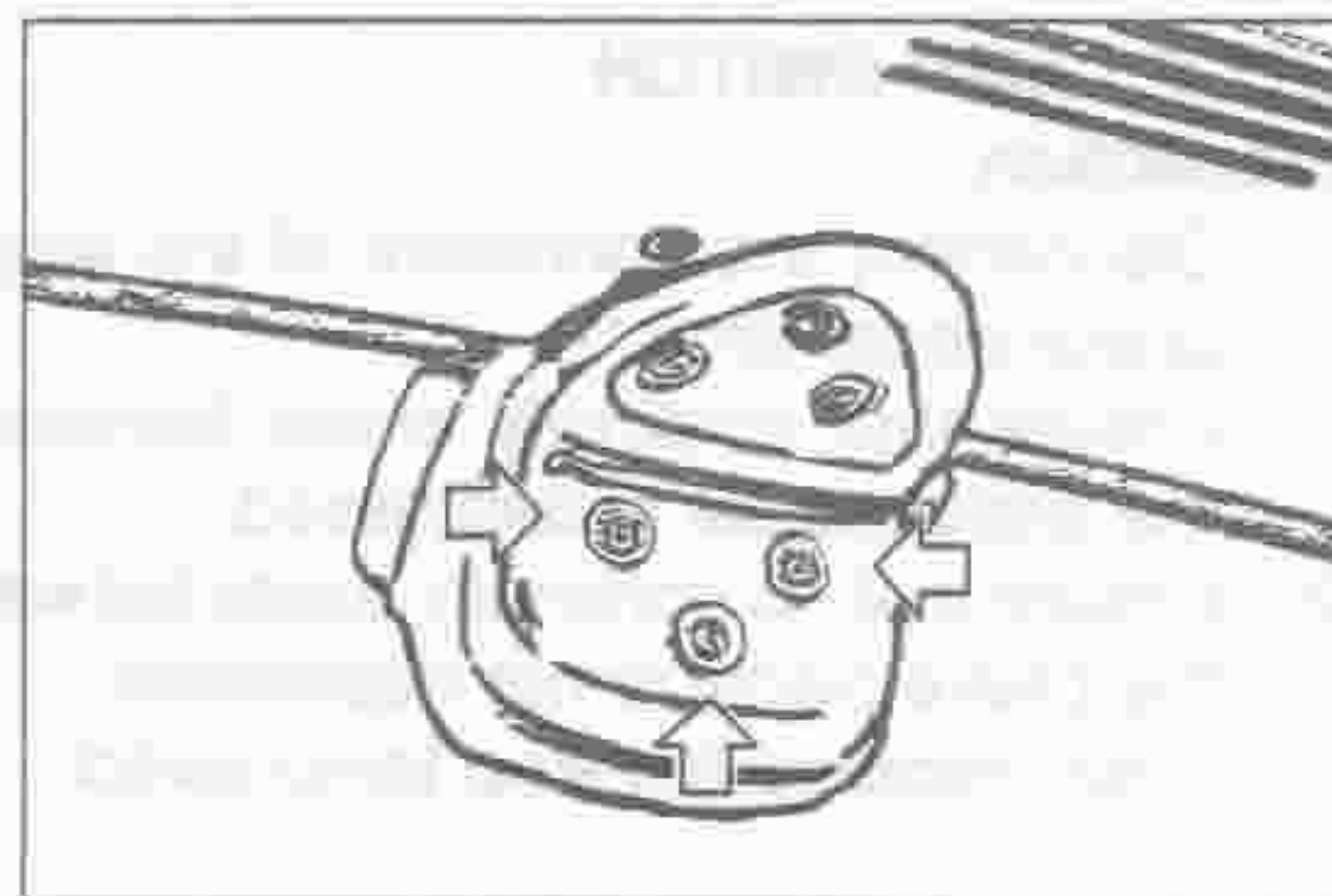


LBE00101-00551

HIGH-MOUNTED STOP LAMP

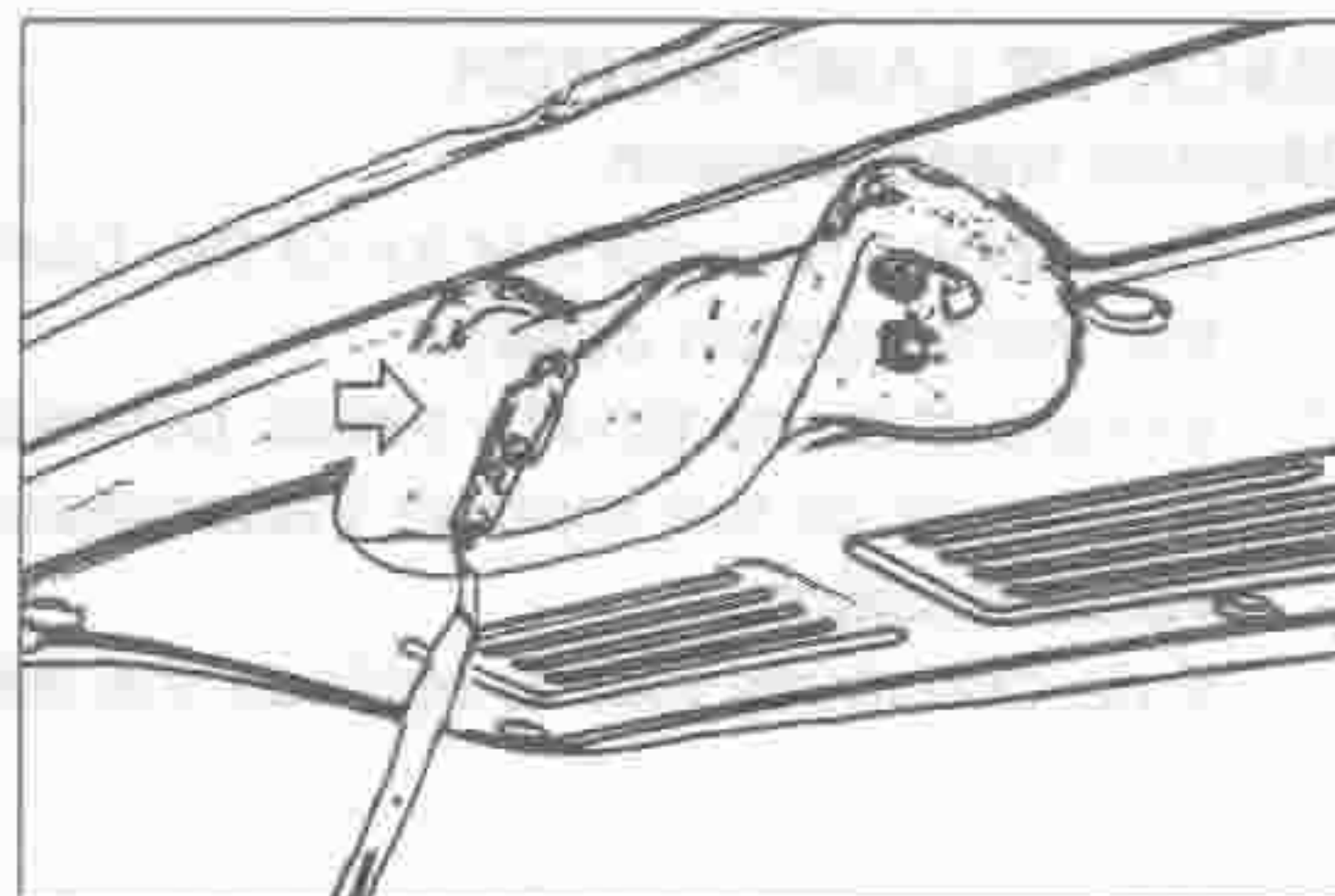
Replacement of bulb

1. Remove the three screws of the light assembly.



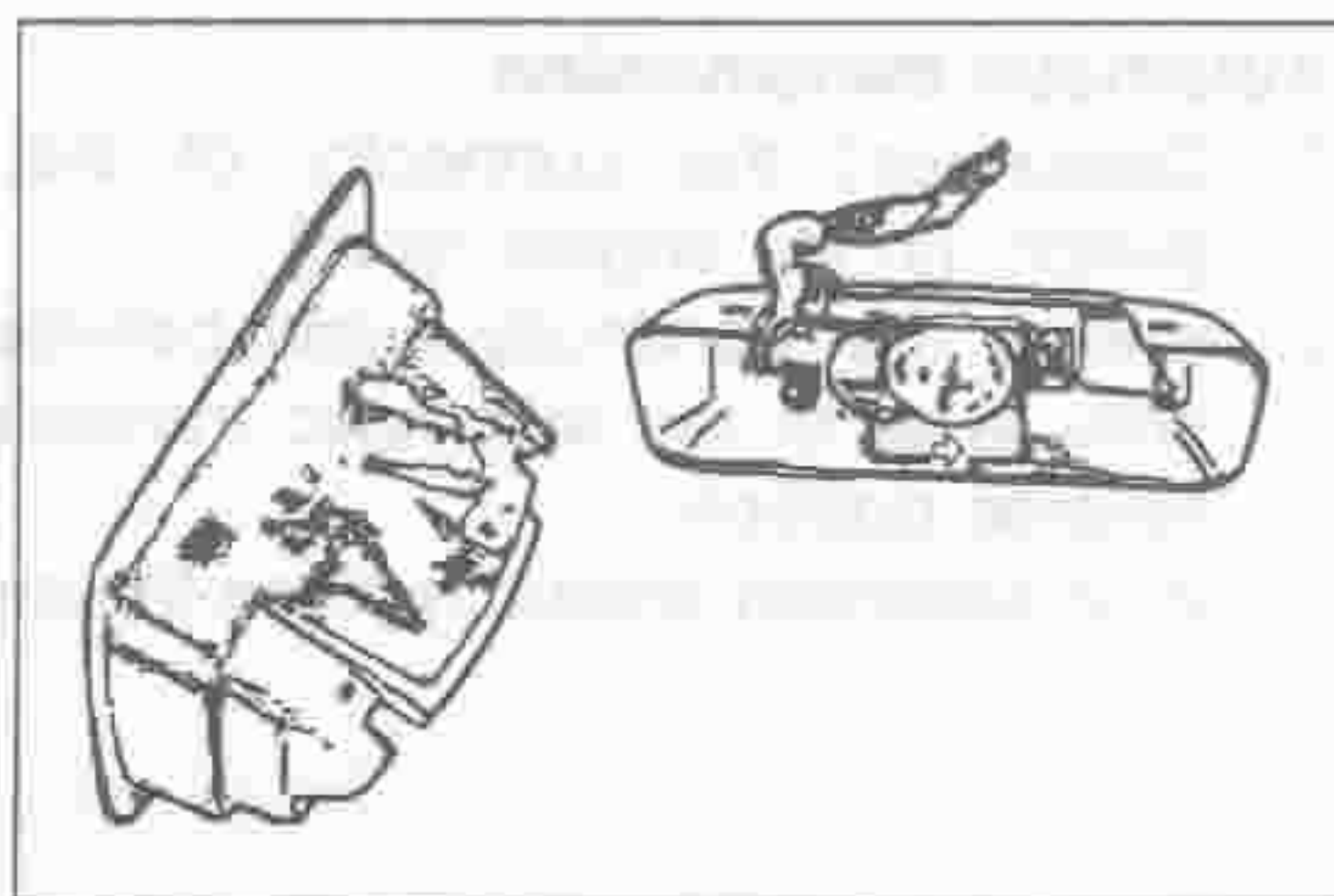
LBE00102-00552

2. Disconnect the connector of the lamp.



LBE00103-00553

3. Remove the two screws retaining the lamp body.
4. Separate the lamp body.
5. Turn the bulb counterclockwise while pushing it.



LBE00104-00554

REAR COMBINATION LAMP

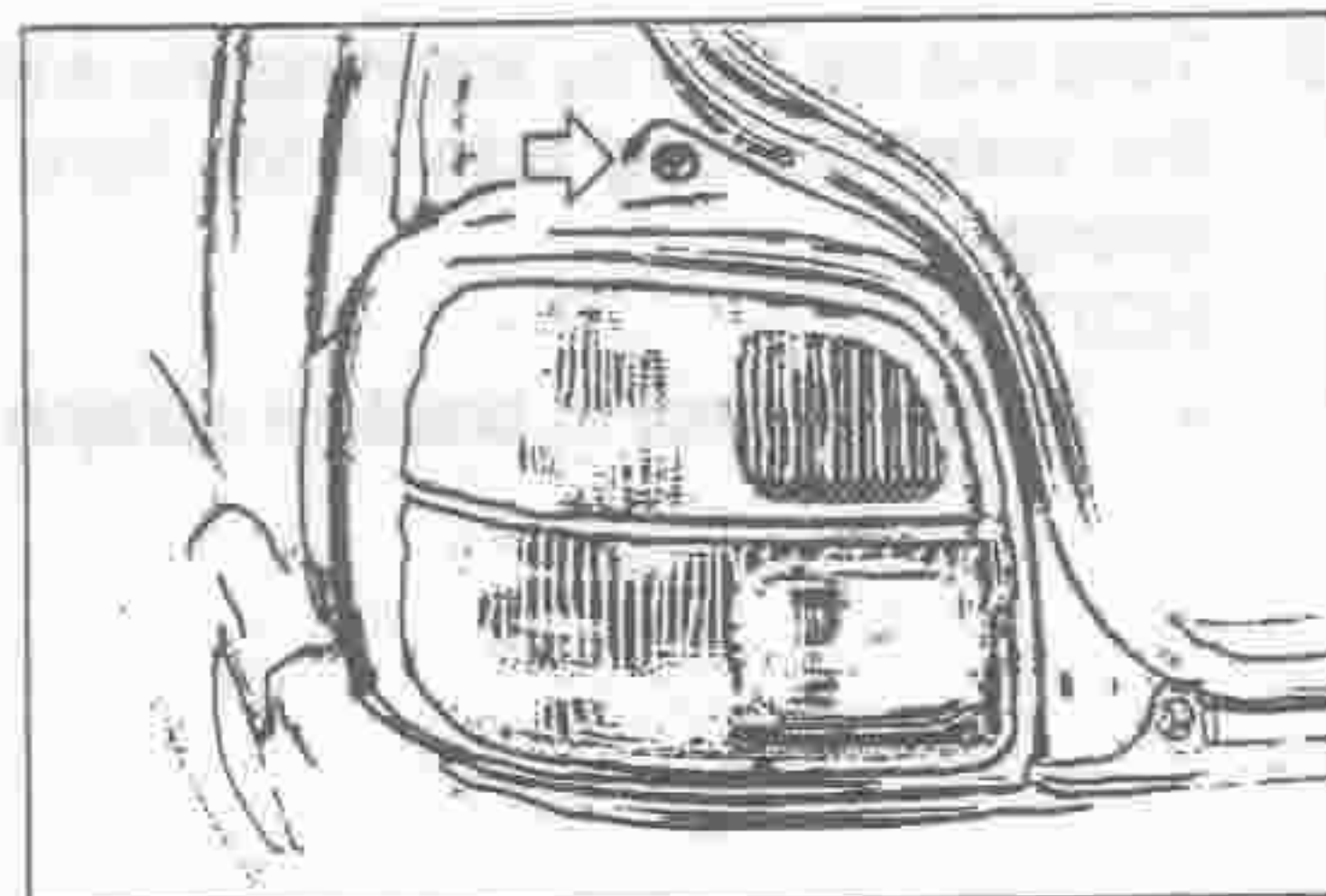
REAR TURN SIGNAL LAMPS

STOP & TAIL LAMPS

BACK-UP LAMPS

Replacement of bulb

1. Remove the screw to detach the lamp assembly.

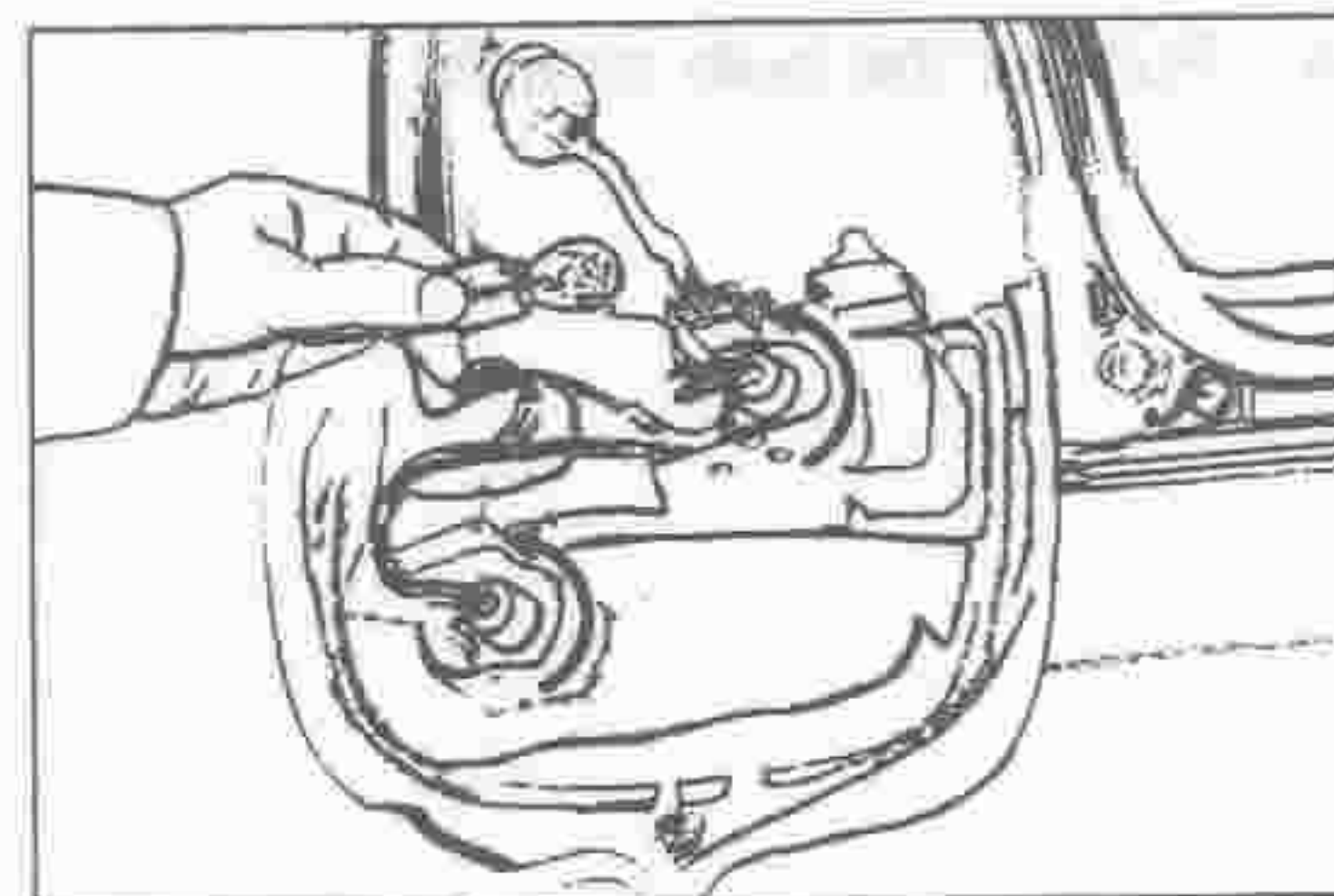


LBE00105-00555

2. Remove the bulb holder by turning it counterclockwise.
3. Remove the bulb by turning it counterclockwise while pushing the bulb.

NOTE:

- When installing the lamp assembly, be sure to align the lower projection of the lamp assembly with the body hole.

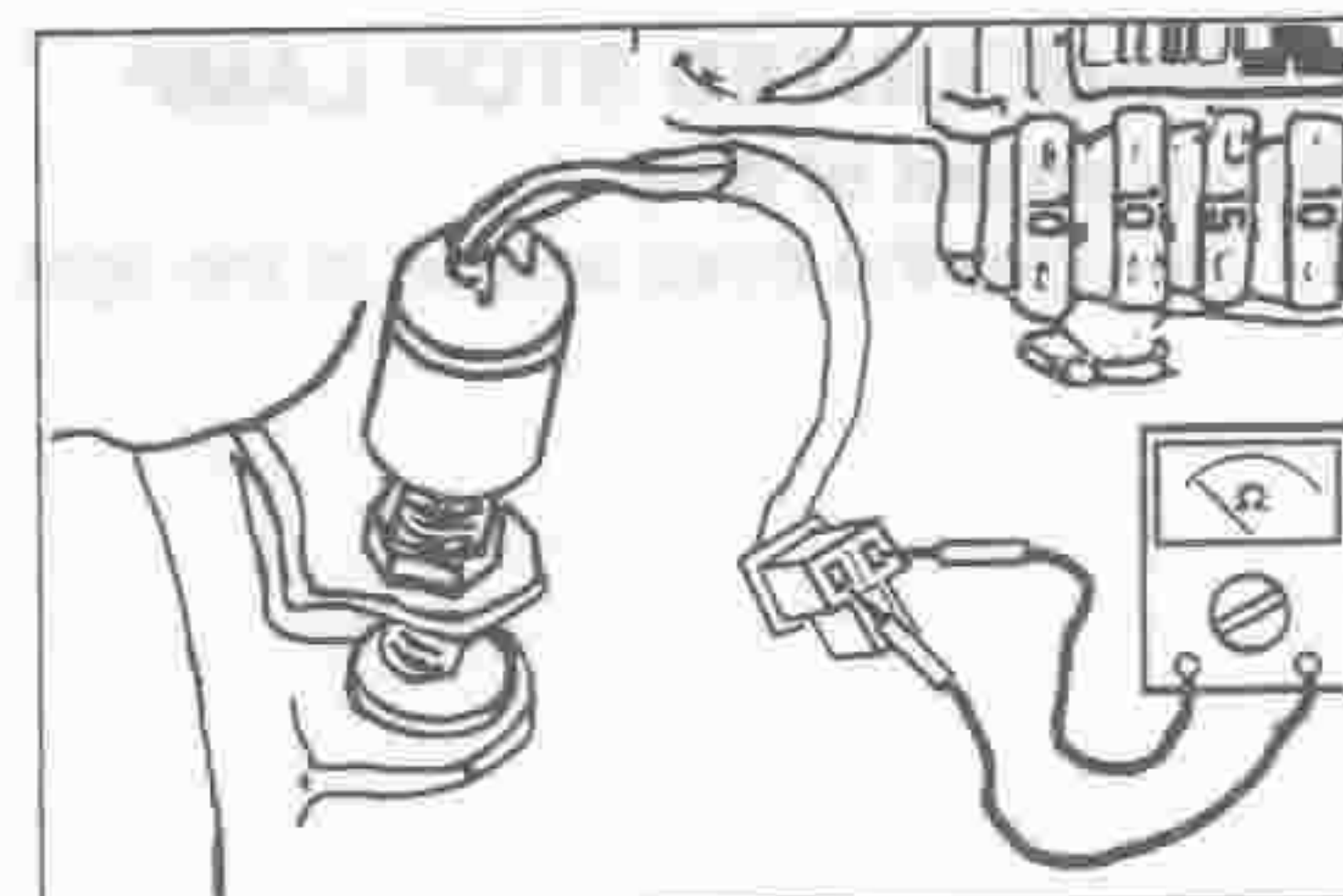


LBE00106-00556

STOP LAMP SWITCH

Inspection

1. Disconnect the connector of the stop lamp switch. (at the brake pedal arm)
2. Ensure that continuity exists between the terminals when the brake pedal is depressed.
3. Ensure that no continuity exists between the terminals when the brake pedal is not depressed.
If not, replace the stop lamp switch.

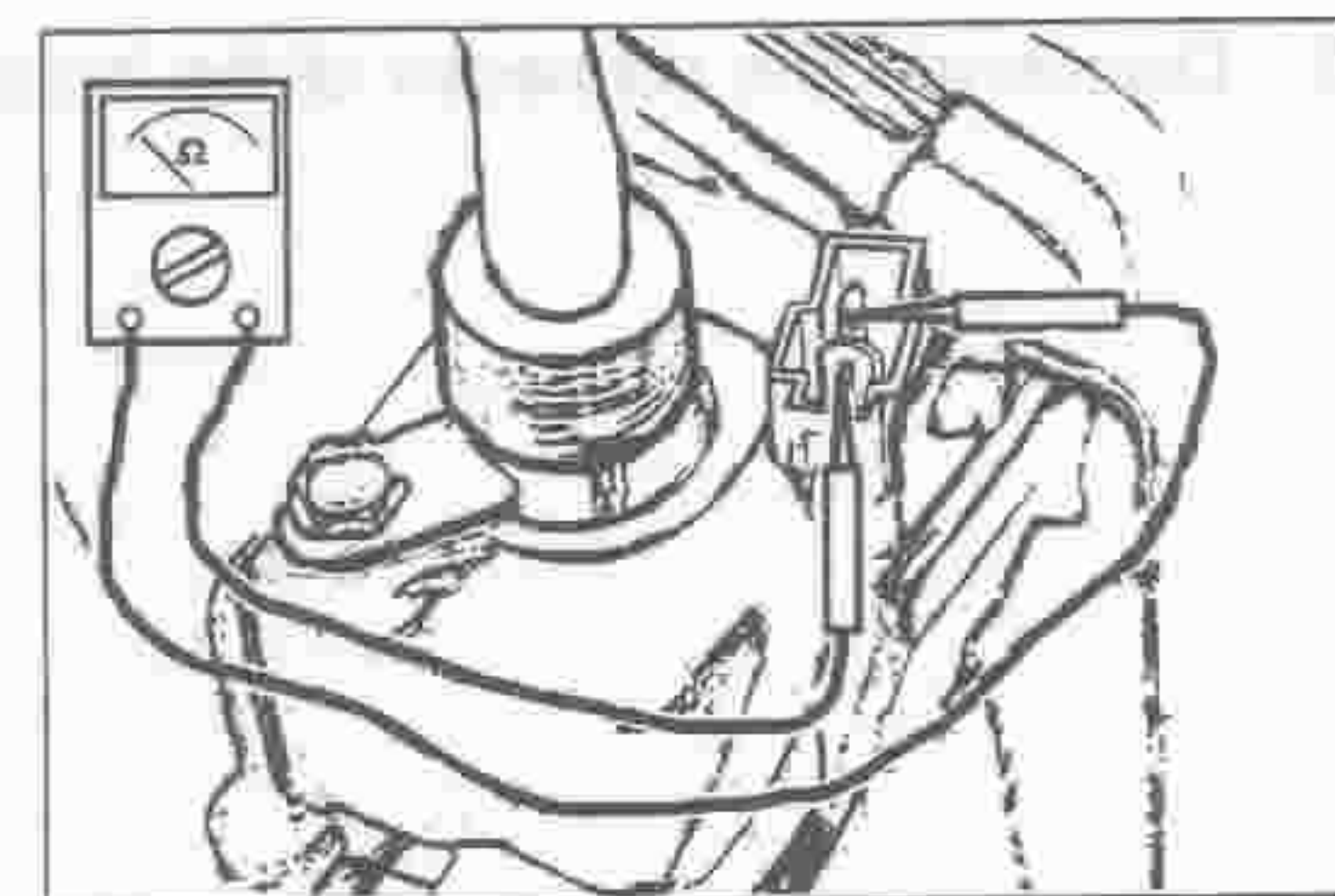


LBE00107-00557

BACK UP LAMP SWITCH

Manual transmission

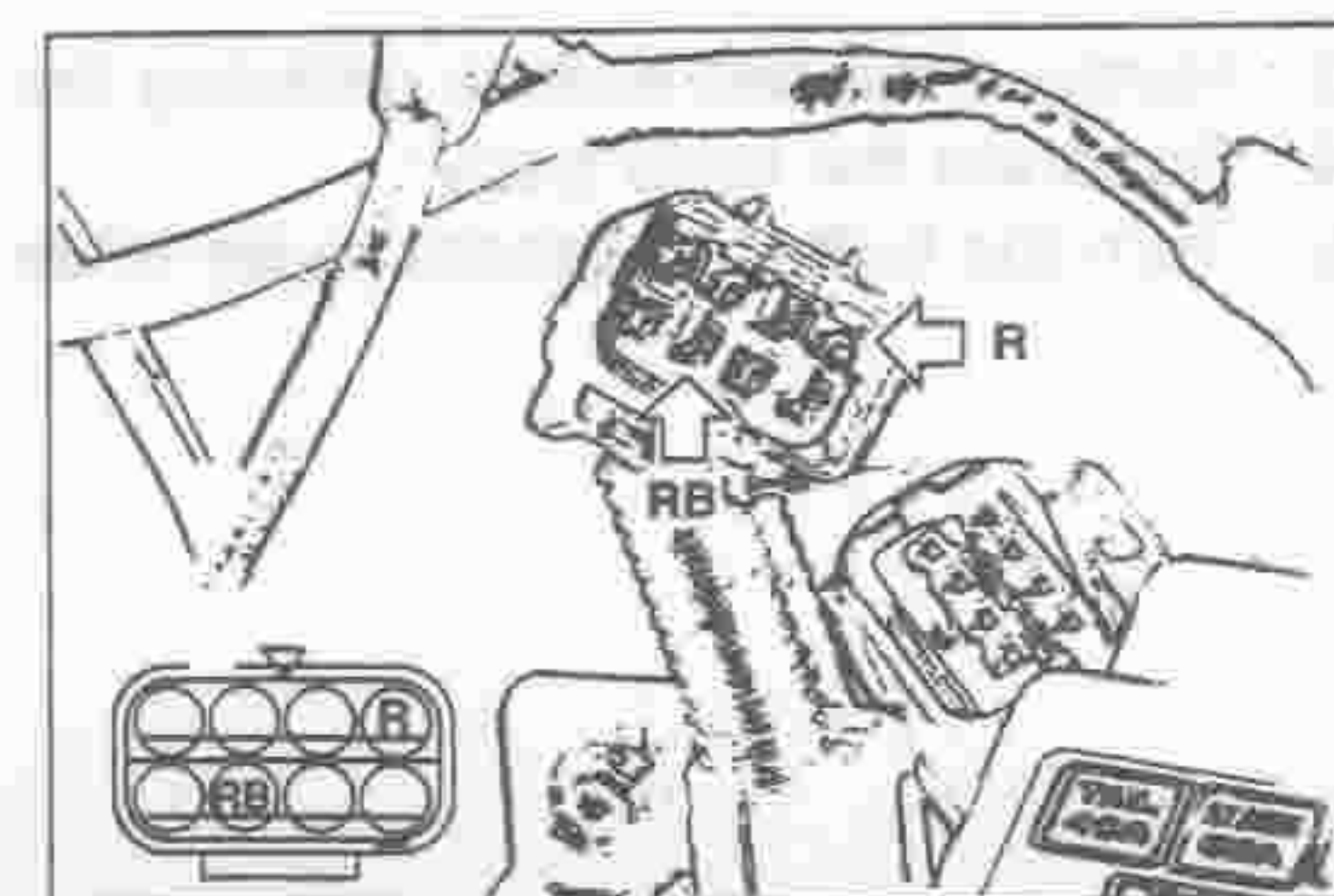
1. Disconnect the connector of the back up lamp switch. (on the transmission case)
2. Ensure that continuity exists between the terminals when shift lever of the manual transmission is shifted to the reverse position.
If no continuity exists, replace the switch.



LBE00108-00558

Automatic transmission

1. Disconnect the connector of the transmission neutral switch. (in the engine room)
2. Ensure that continuity exists between the terminals when shift lever of the automatic transmission is shifted to the reverse position.
If no continuity exists, replace the switch.

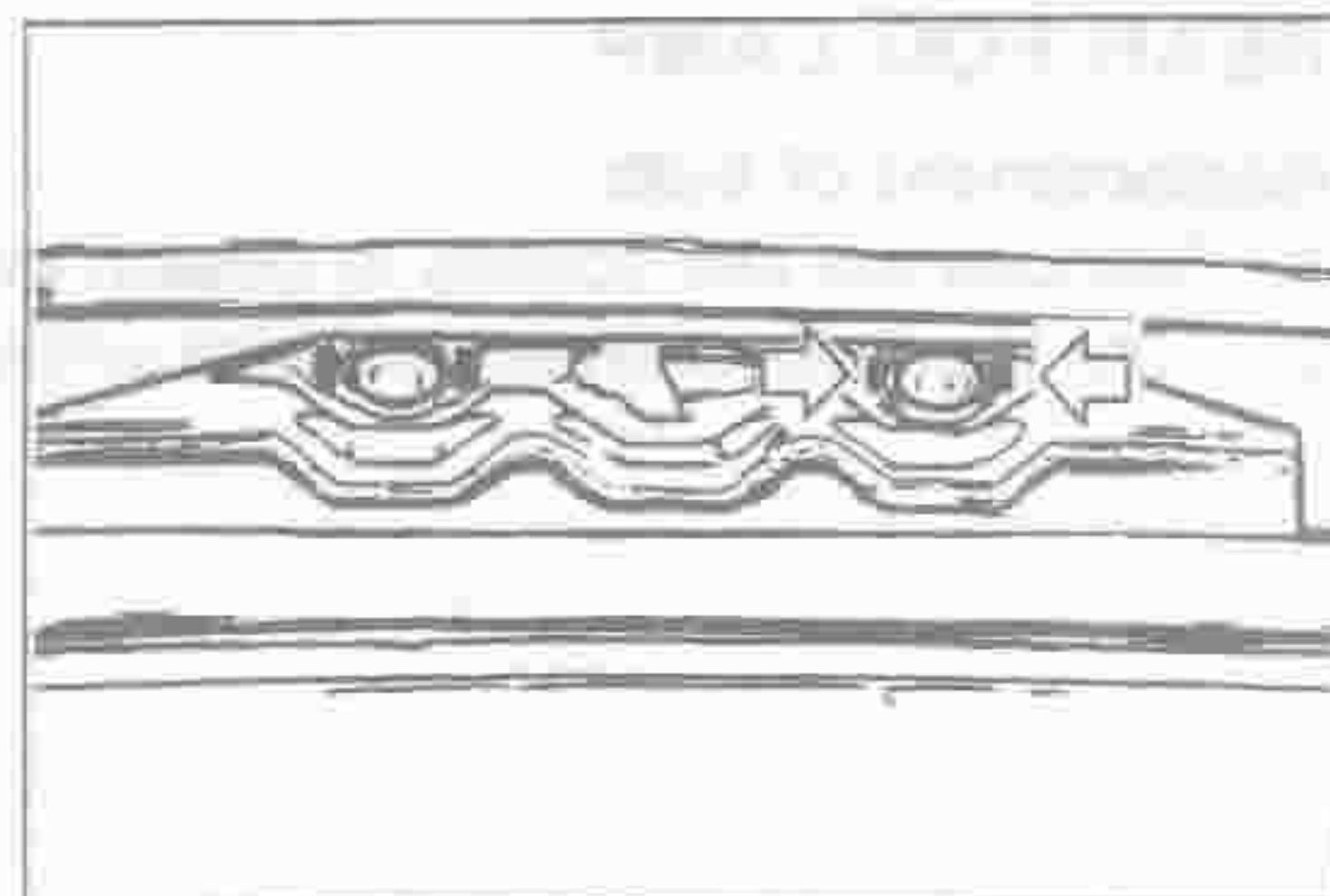


LBE00109-00559

LICENSE PLATE LAMP

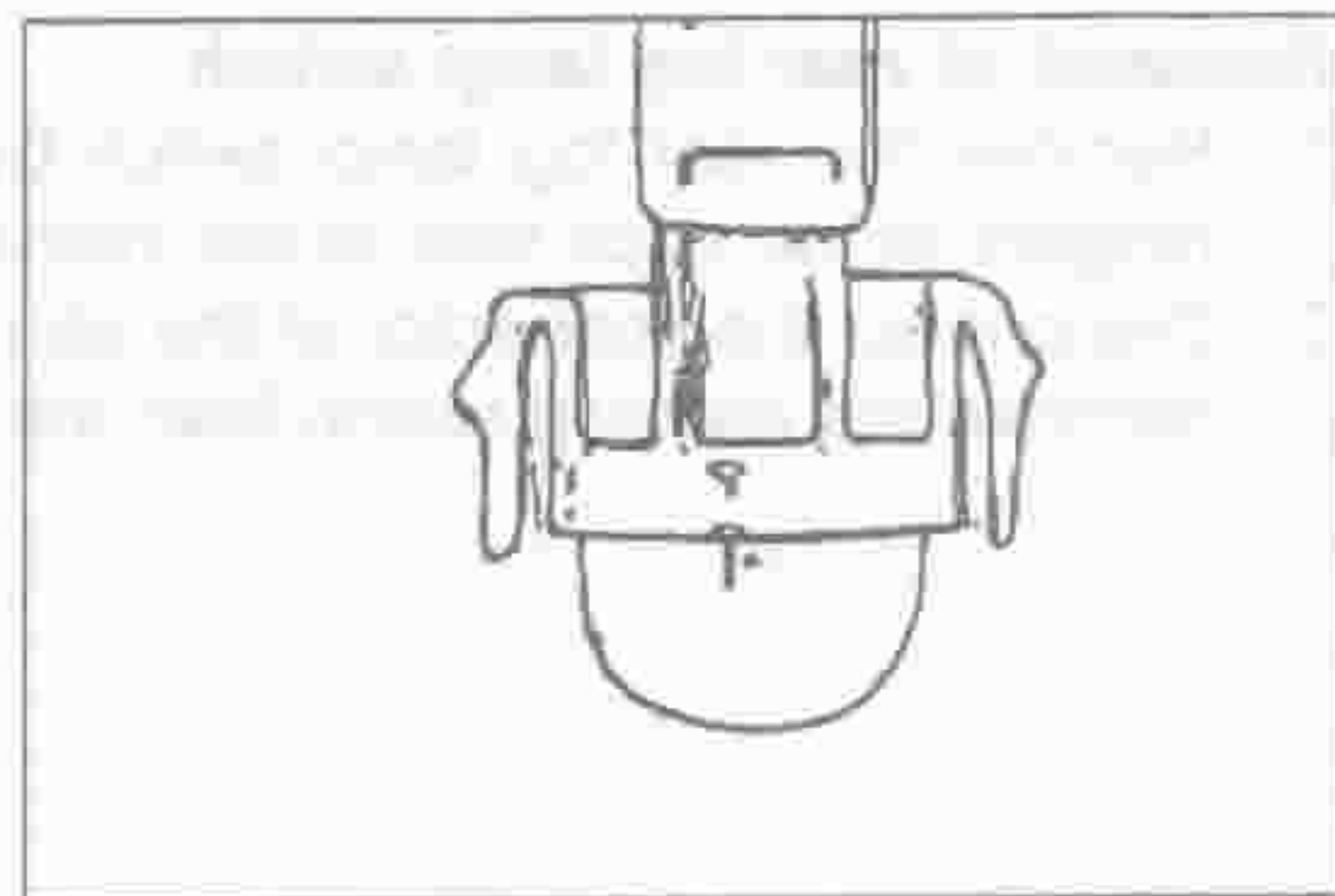
Replacement of bulb

1. Remove the lamp assembly by pushing both clip sections by hand.



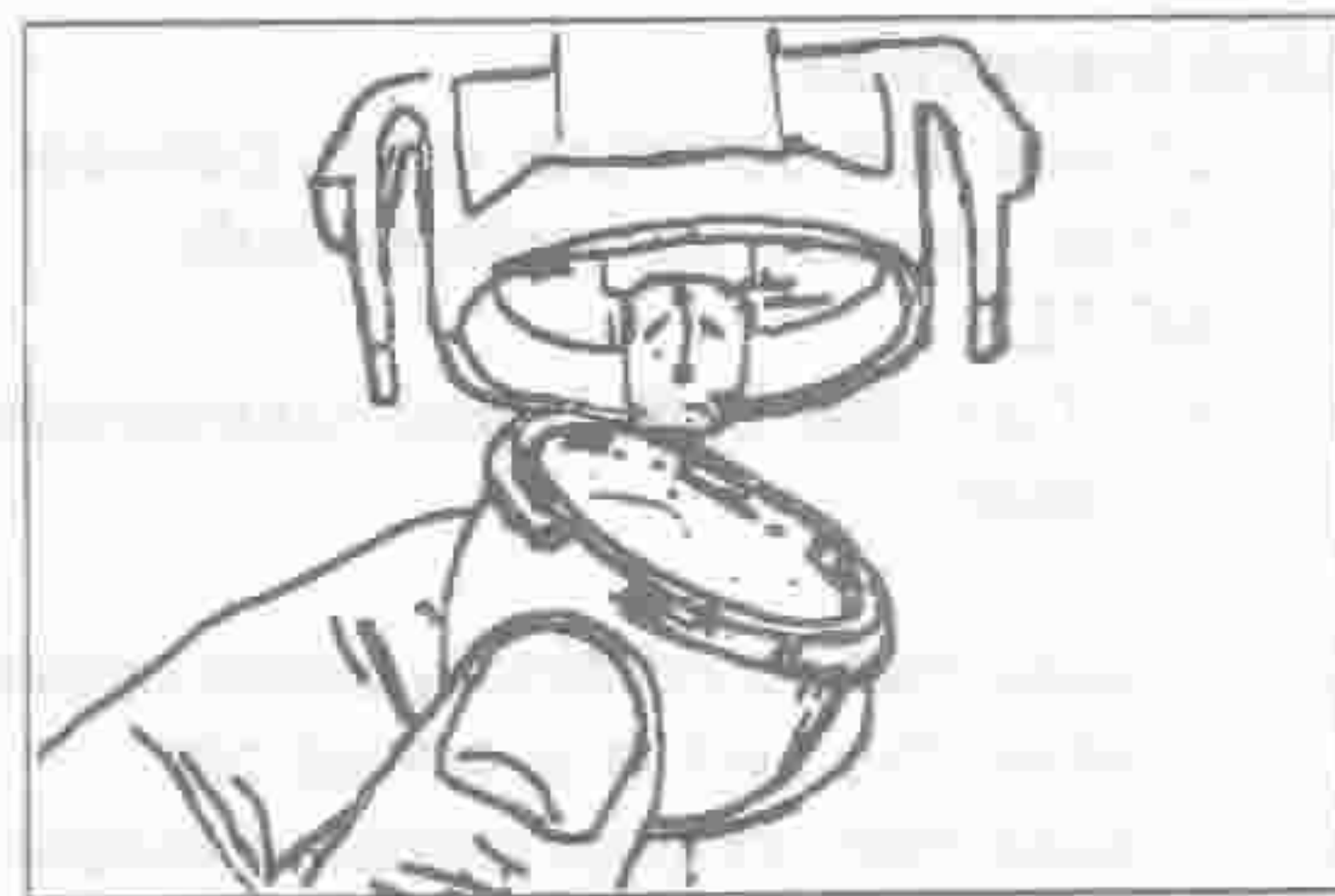
LBE00110-00561

2. Remove the lamp cover by hand.



LBE00111-00562

3. Pull out the bulb straight.



LBE00112-00563

INTERIOR LAMP

Replacement of bulb

1. Lightly pry the lens to detach it.
2. Pull out the bulb straight.

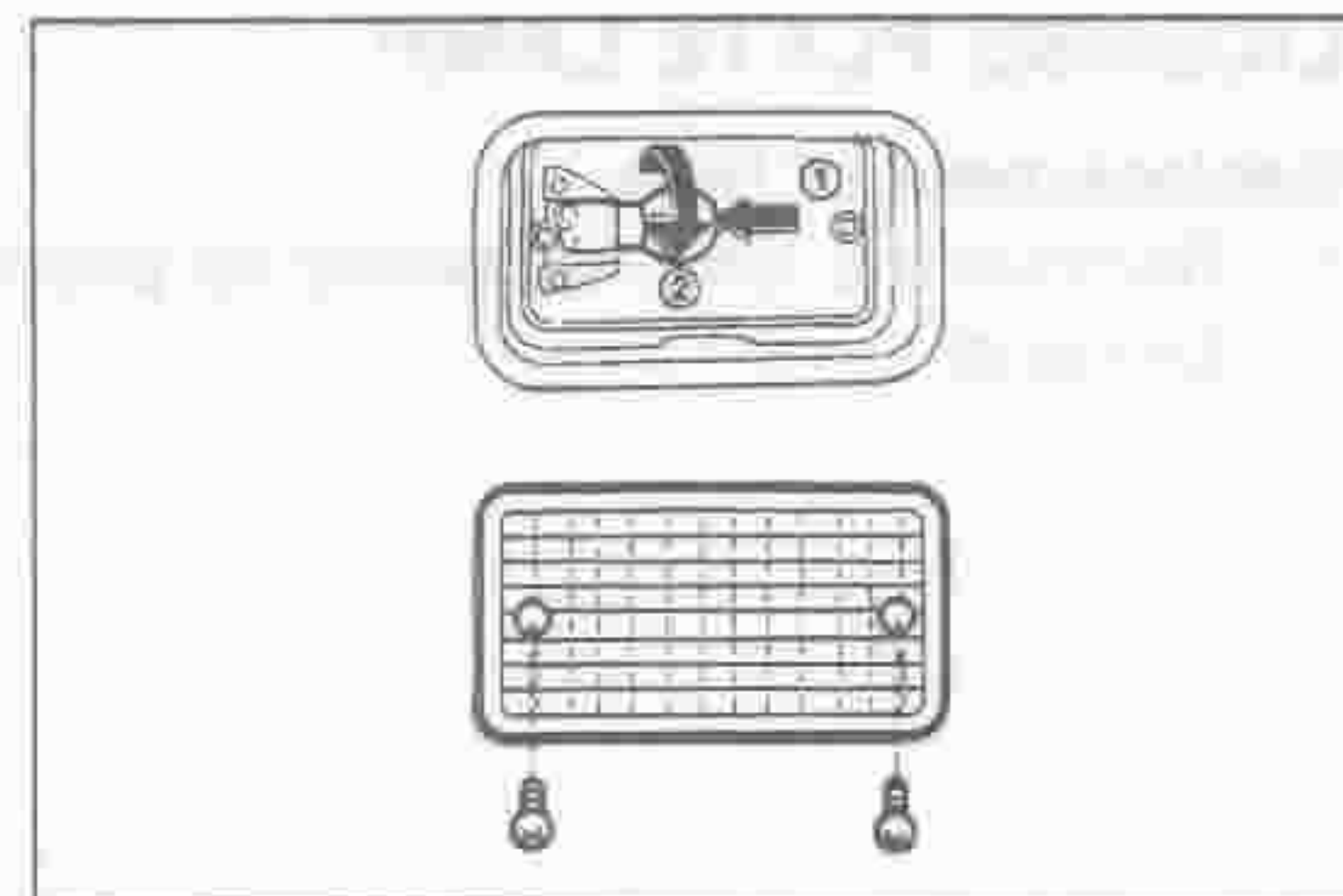


LBE00113-00571

REAR FOG LAMP

Replacement of bulb

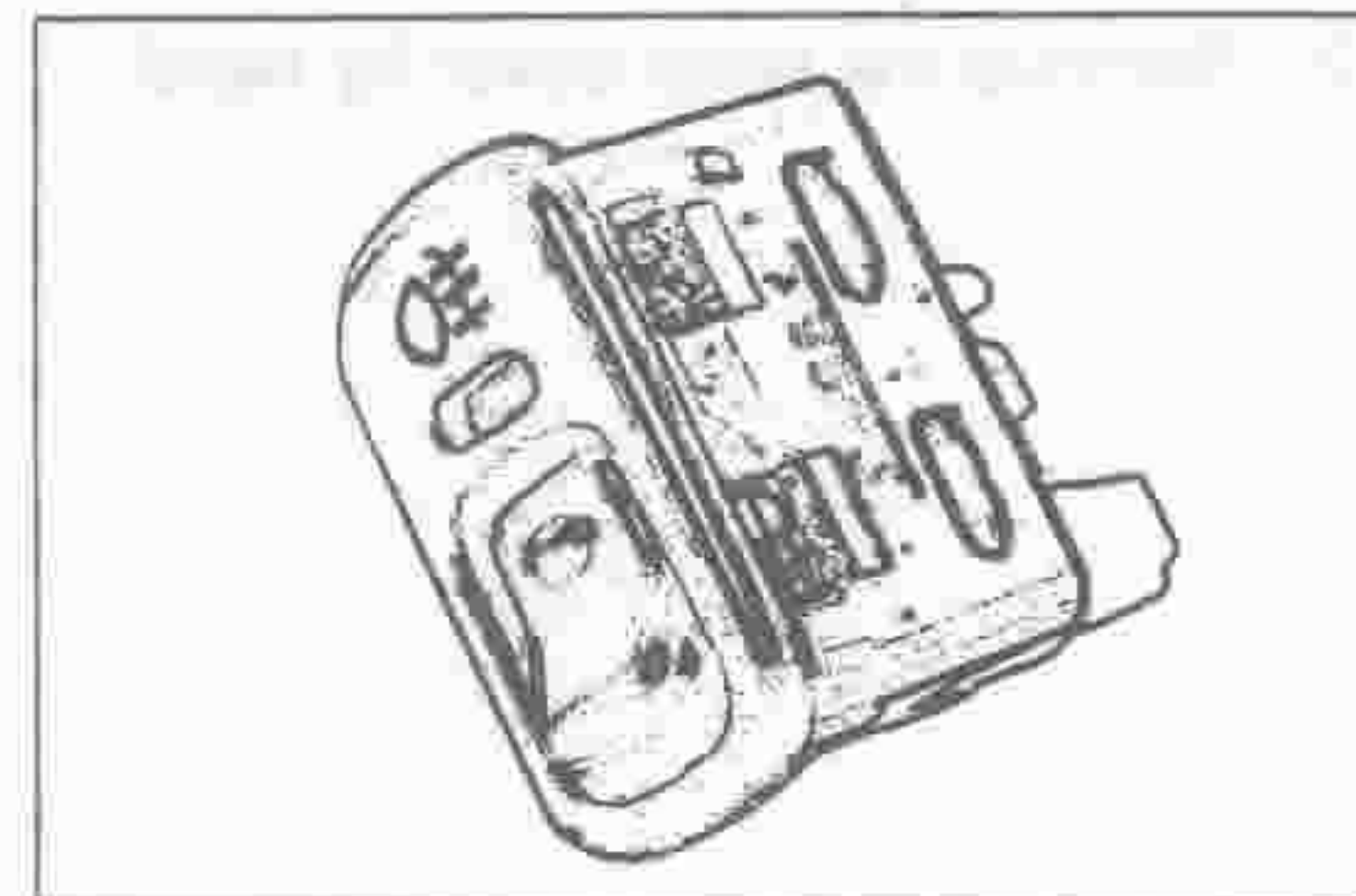
1. Remove the two screws to detach the lamp assembly.
2. Turn the bulb counterclockwise while pushing it.



LBE00114-00581

Removal of rear fog lamp switch

1. Remove the rear fog lamp switch by pushing it with your fingers at the back side of the instrument panel.
2. Disconnect the connector of the wire harness.
3. Remove the rear fog switch from the instrument panel.



LBE00115-00582

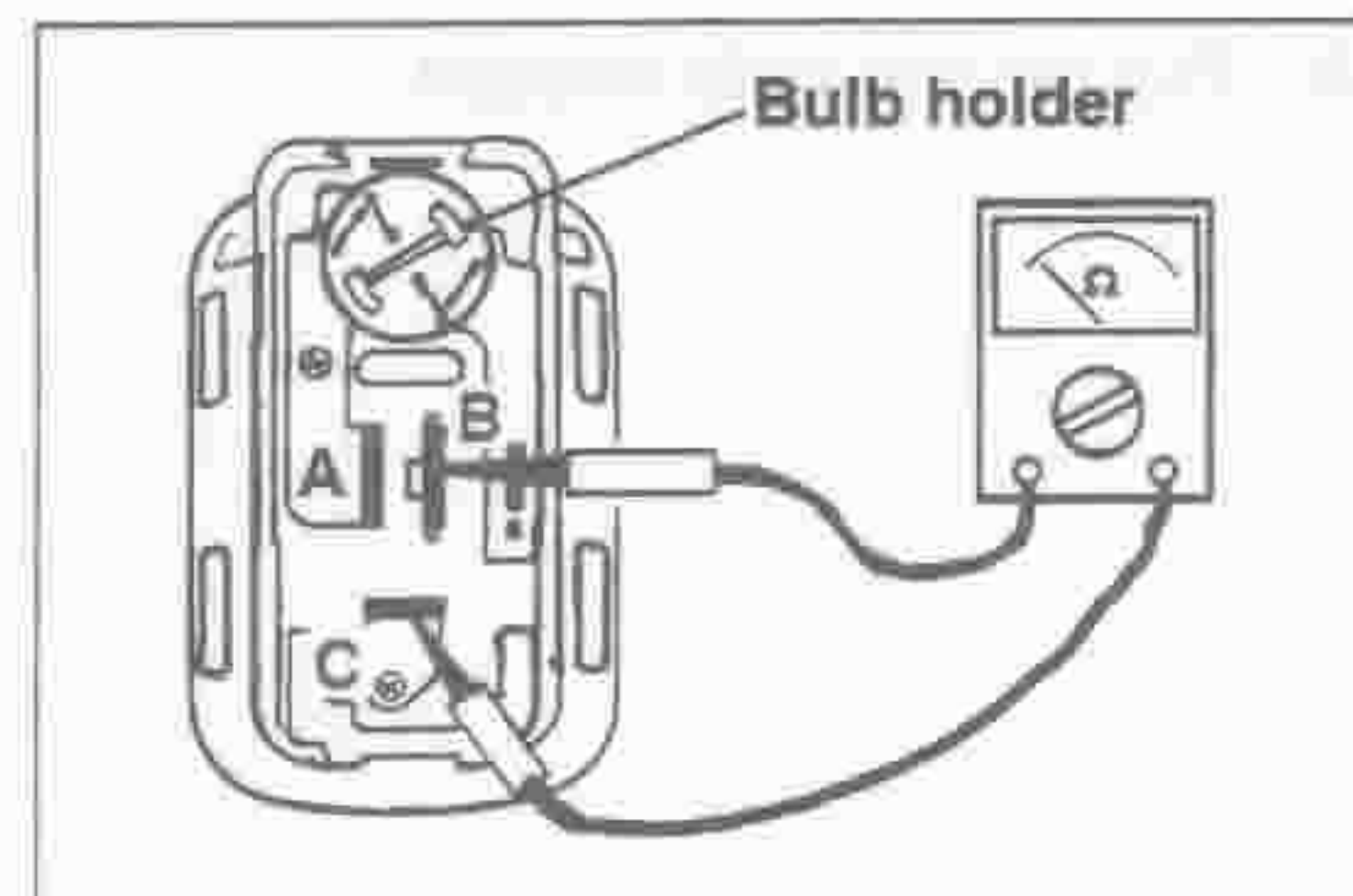
Unit inspection

1. Ensure that continuity exists between the terminal A and B. If not, replace the indicator bulb.

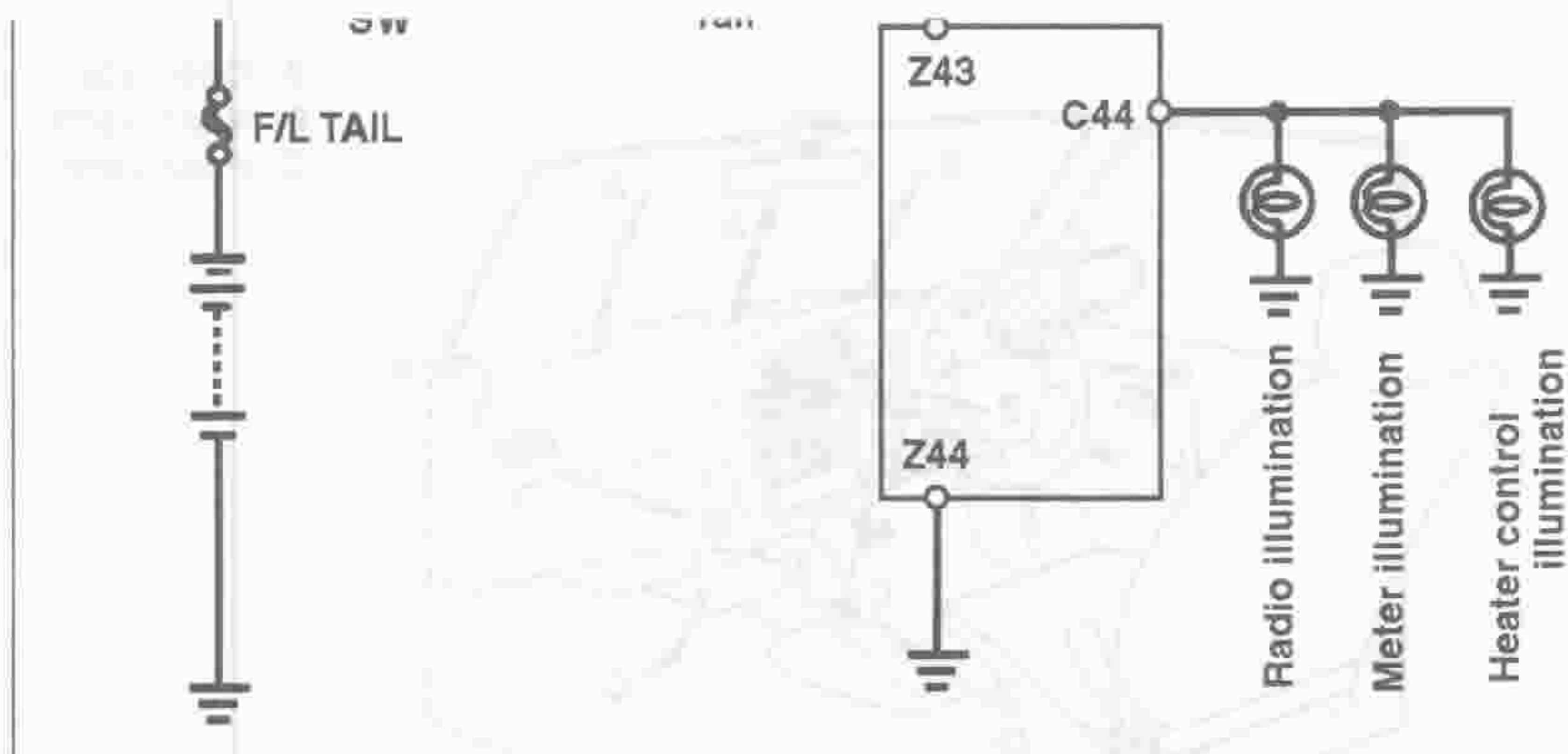
NOTE:

- Turn the bulb holder counterclockwise to remove the bulb.

2. Ensure that no continuity exists between the terminal B and C when the switch is turned off.
3. Ensure that continuity exists between the terminal B and C when the switch is turned on. If not, replace the switch.



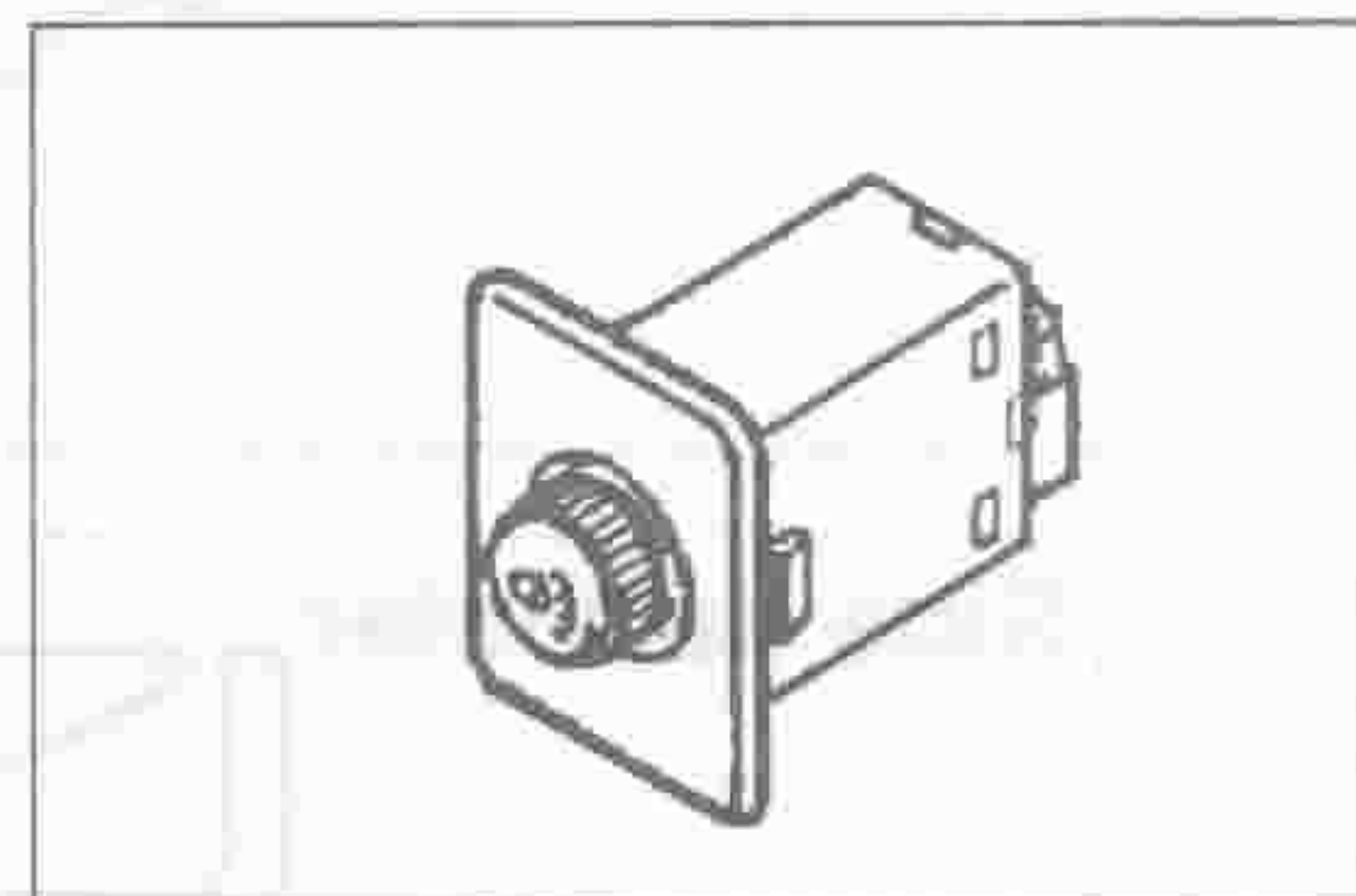
LBE00116-00583



LBE00117-00591

Removal of switch

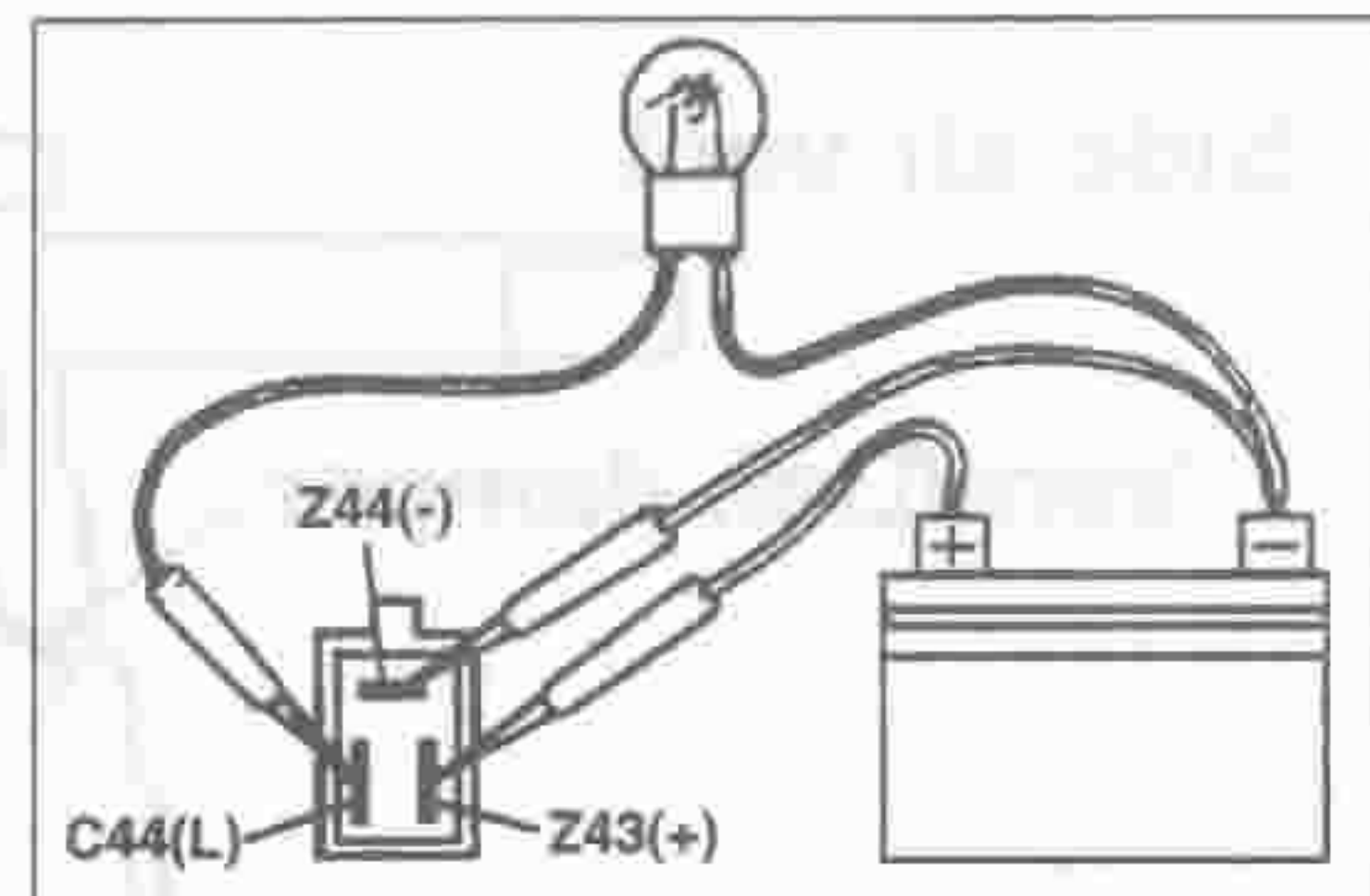
1. Remove the rheostat control switch by pushing it with your fingers at the back side of the instrument panel.
2. Disconnect the connector of the wire harness.
3. Remove the switch from the instrument panel.



LBE00118-00592

In-vehicle inspection

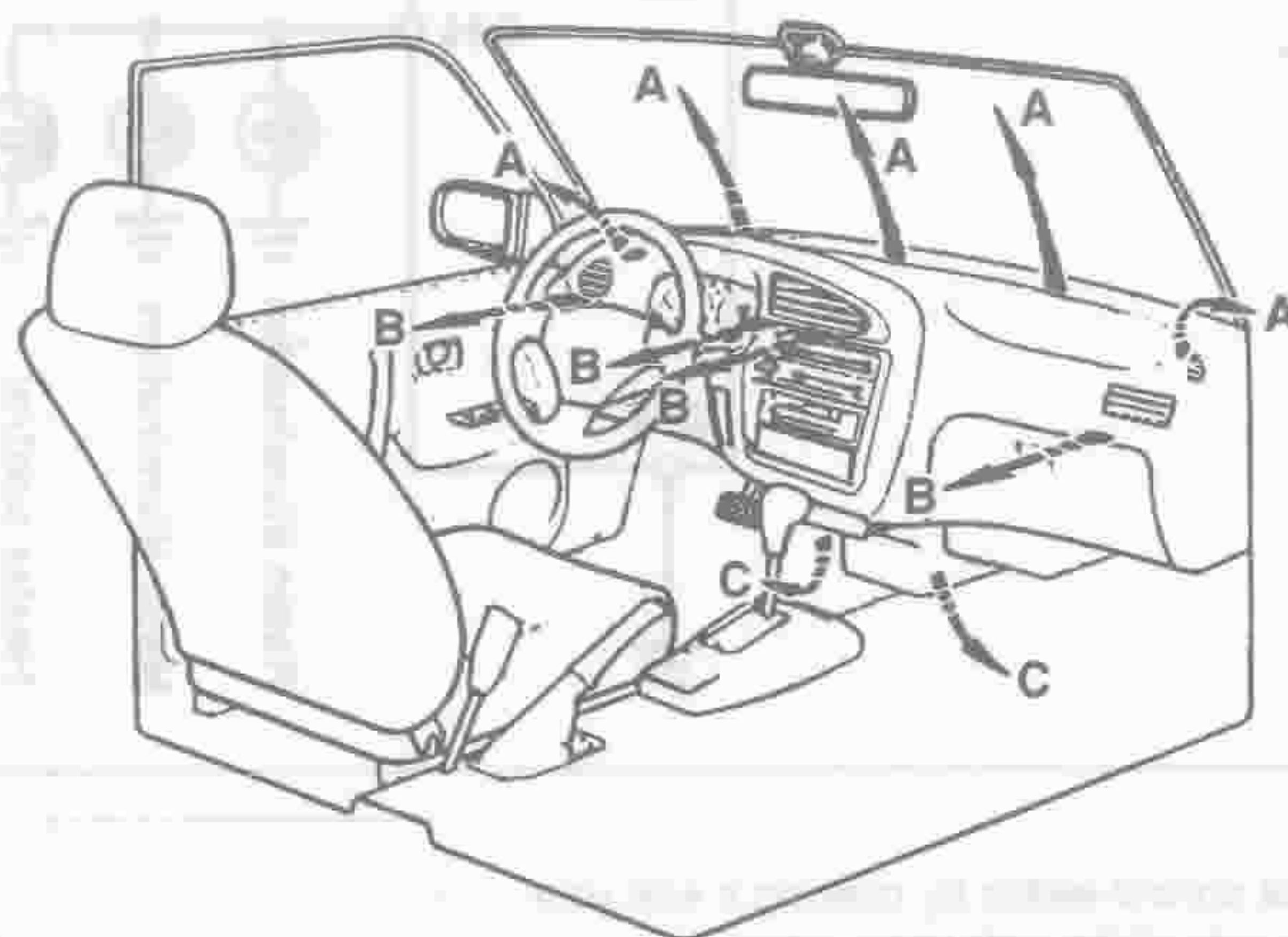
1. Connect the battery (+) to the Z43 terminal and a 3.4 wattage test bulb (+) to the C44 terminal. Connect the battery (-) to the Z44 terminal and test bulb (-) to the Z44 terminal.
2. Ensure that the luminous intensity of the test lamp varies when the rheostat control dial is turned slowly. If not, replace the control switch.



LBE00119-00593

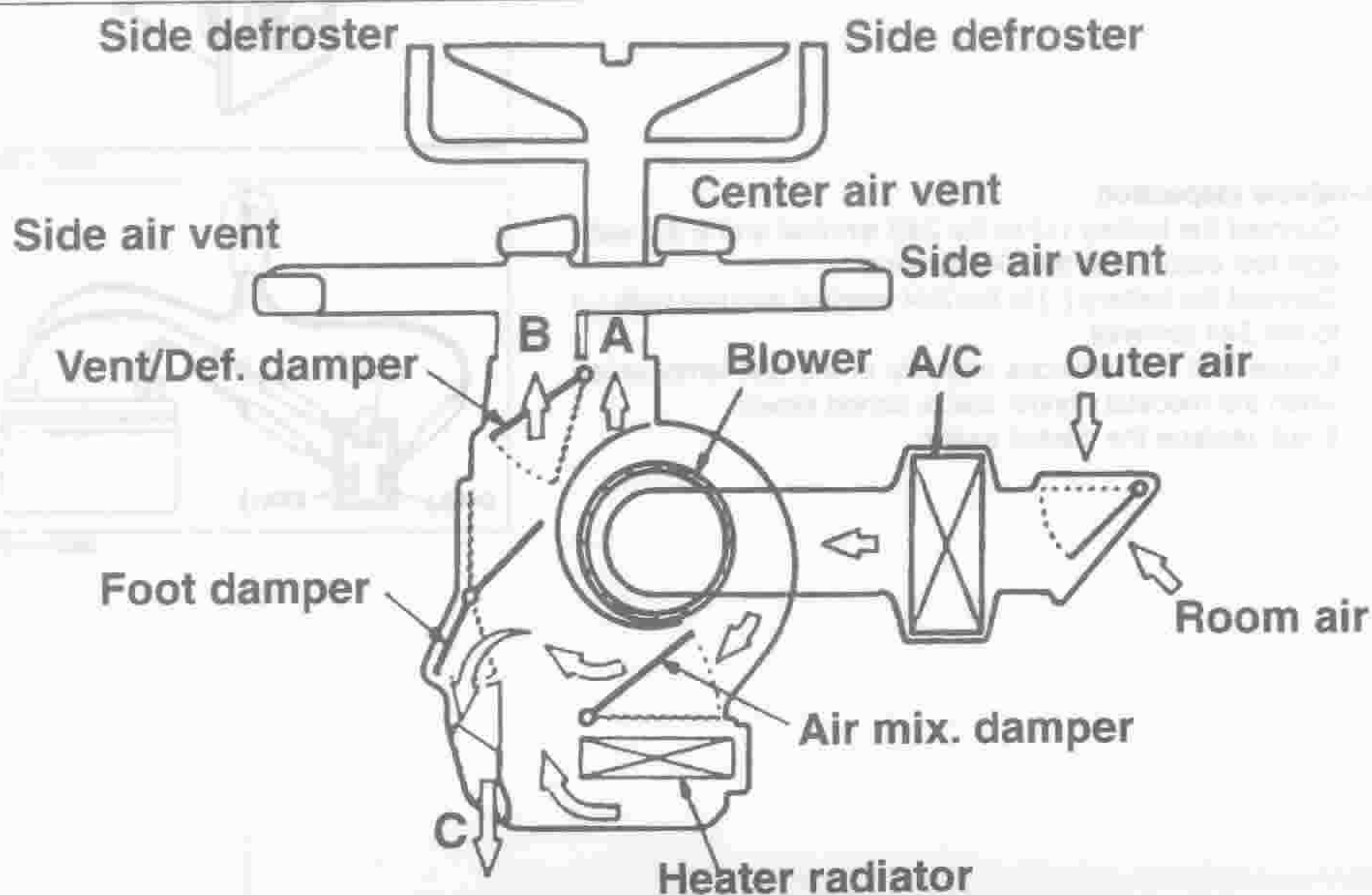
06 HEATER & VENTILATION

VENTILATION SYSTEM



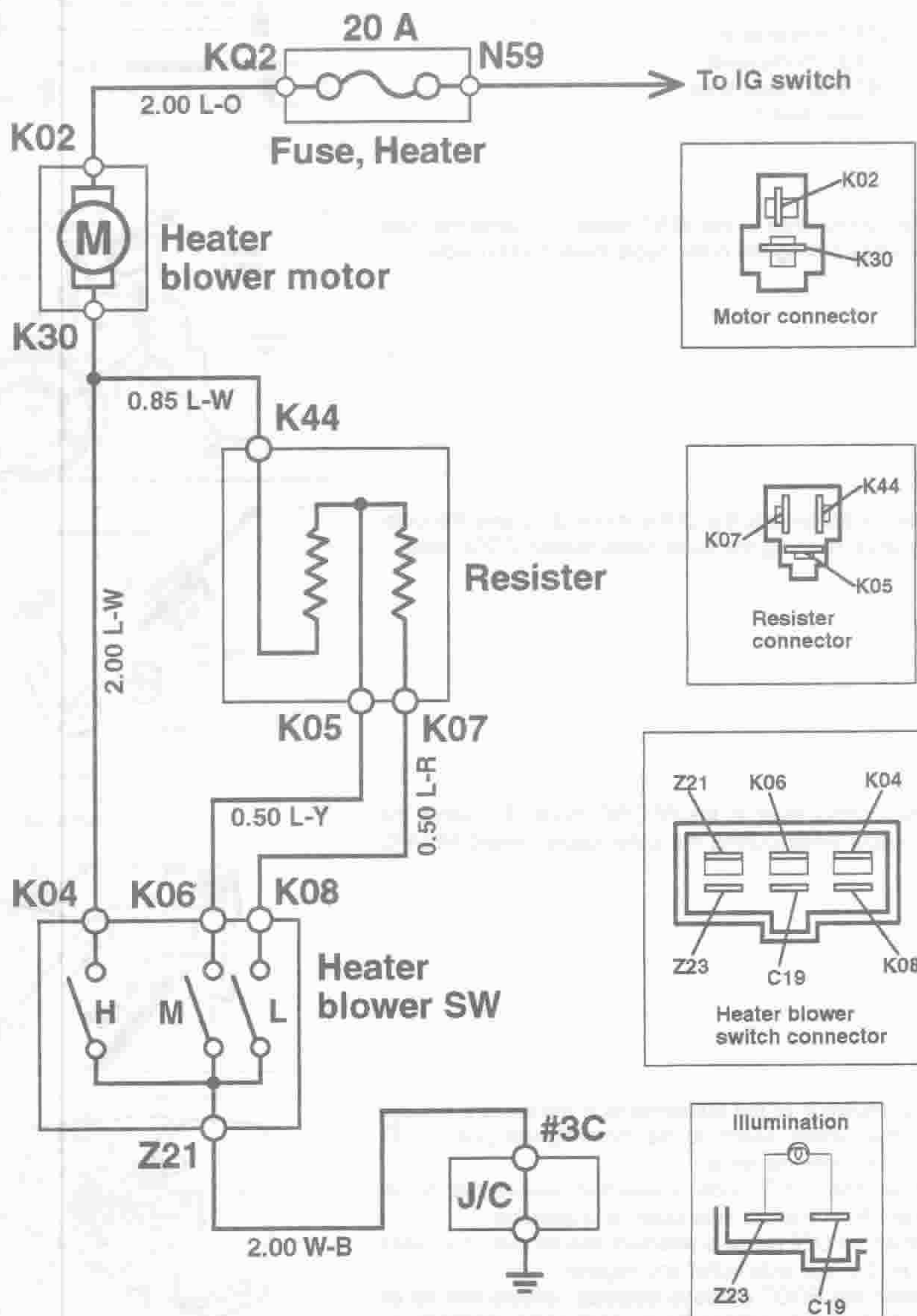
A: Defroster
B: Main vent
C: Foot vent

LBE00120-00600



LBE00000-00601

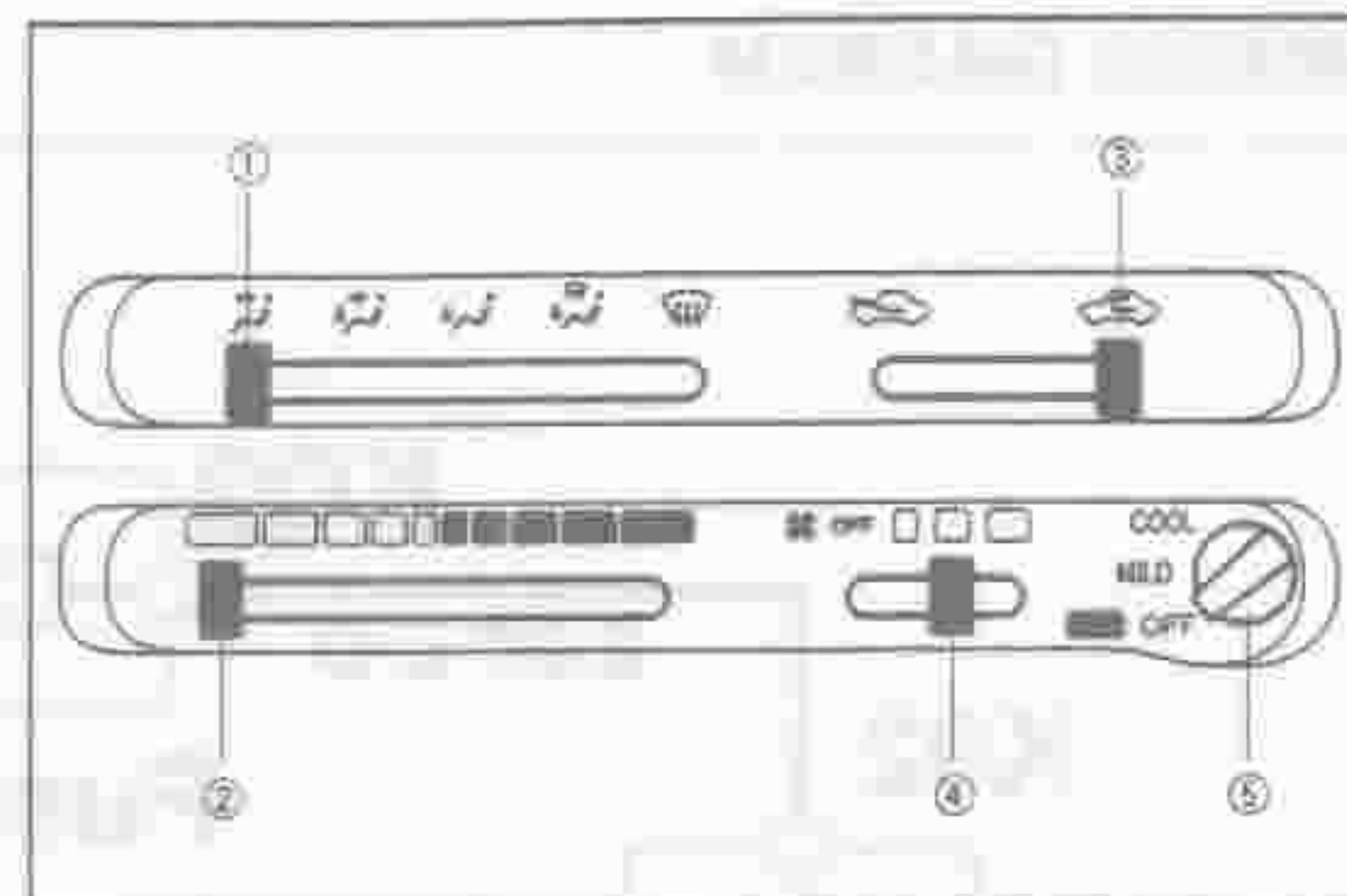
WIRING DIAGRAM



Adjustment of ventilation control

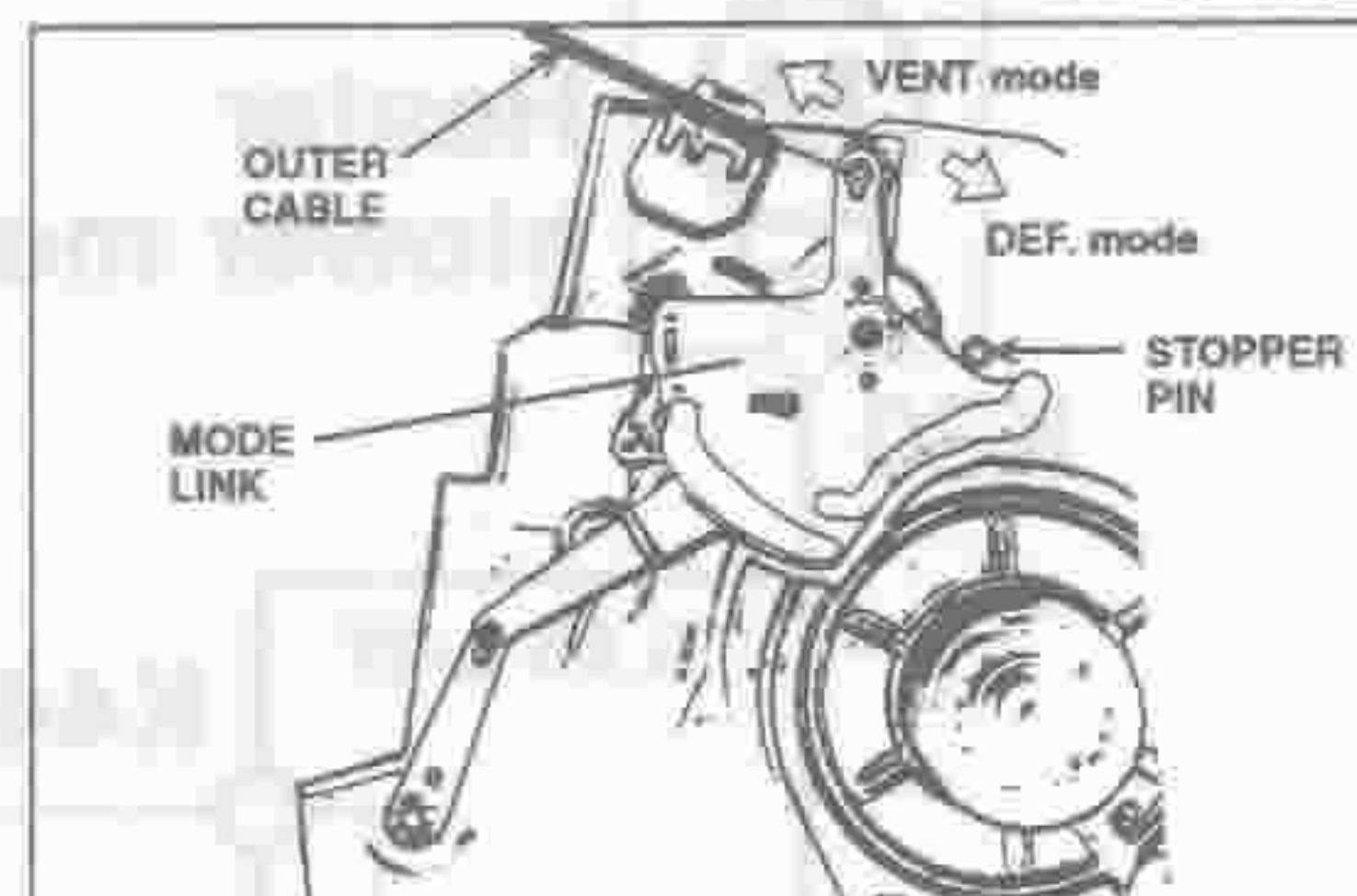
1. Ensure that the control levers move in a right-and-left direction without stiffness and binding over the full range of each lever.

- ① VENT mode lever
- ② COOL mode lever
- ③ RECIRC mode lever
- ④ Blower switch



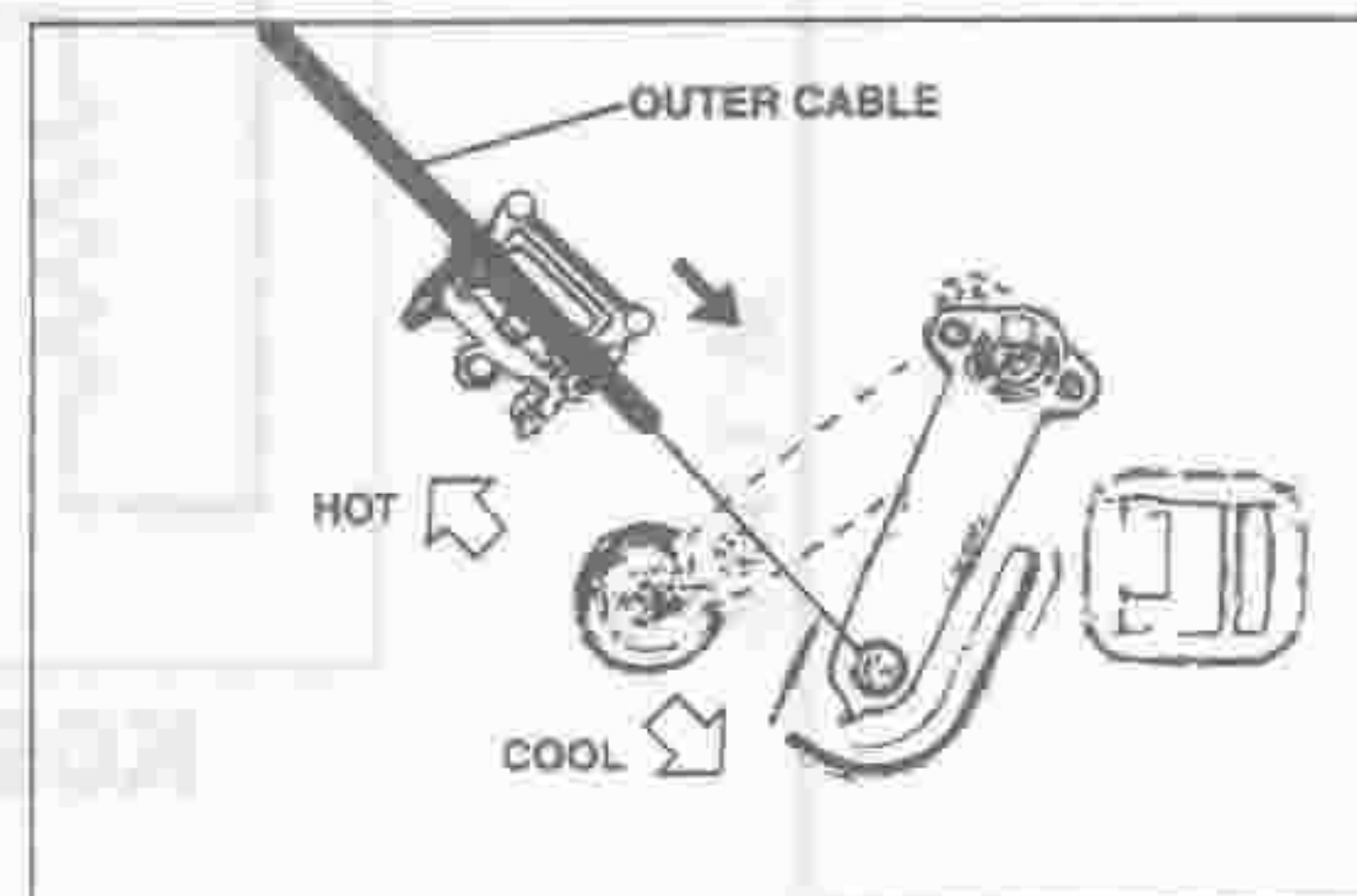
LBE00122-00611

2. Set the control lever to the VENT mode ①. Clamp the outer cable while pulling the outer cable toward VENT side.



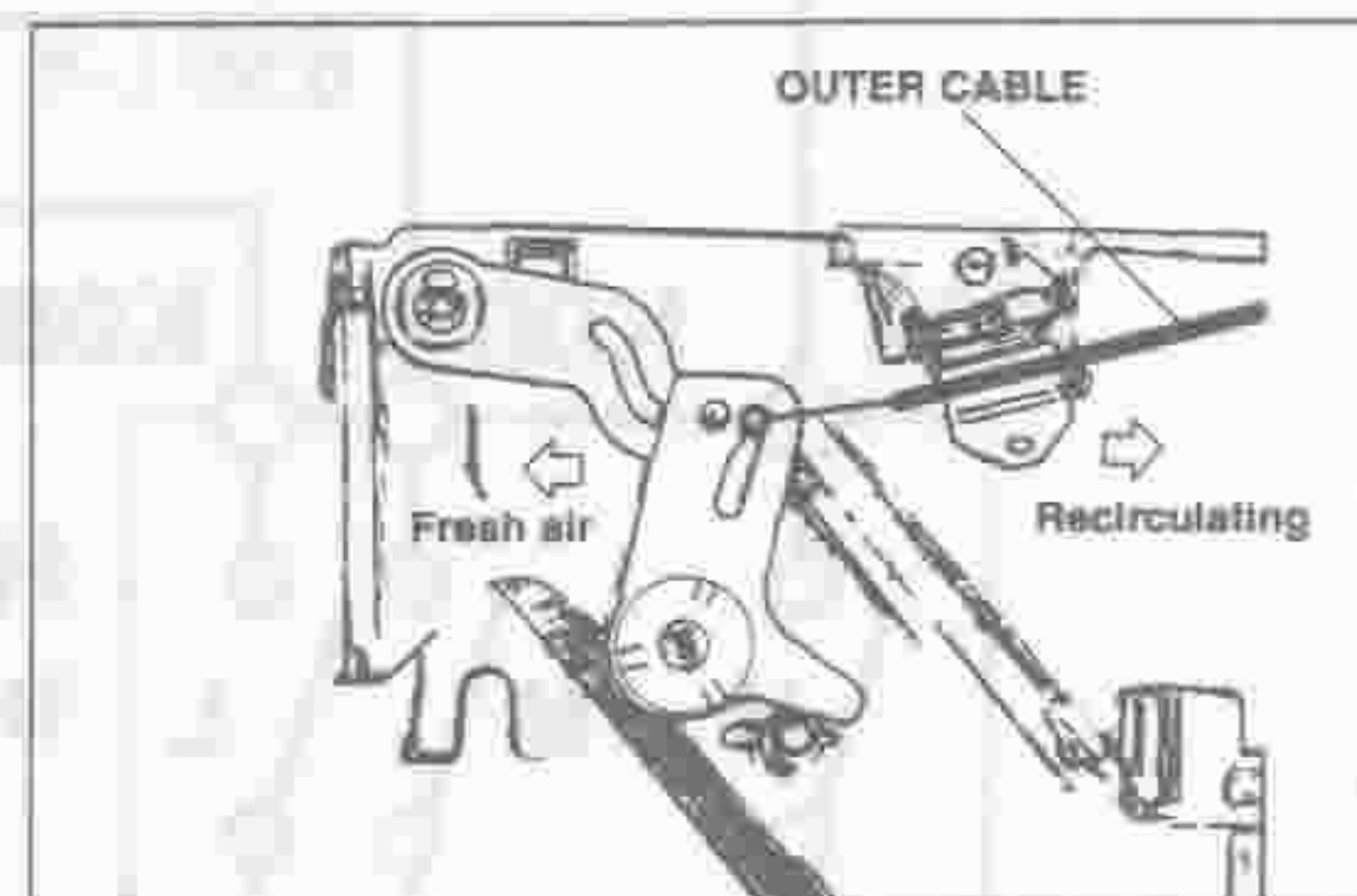
LBE00123-00612

3. Set the control lever to the COOL mode ②. Clamp the outer cable while pushing the outer cable toward COOL side.



LBE00124-00613

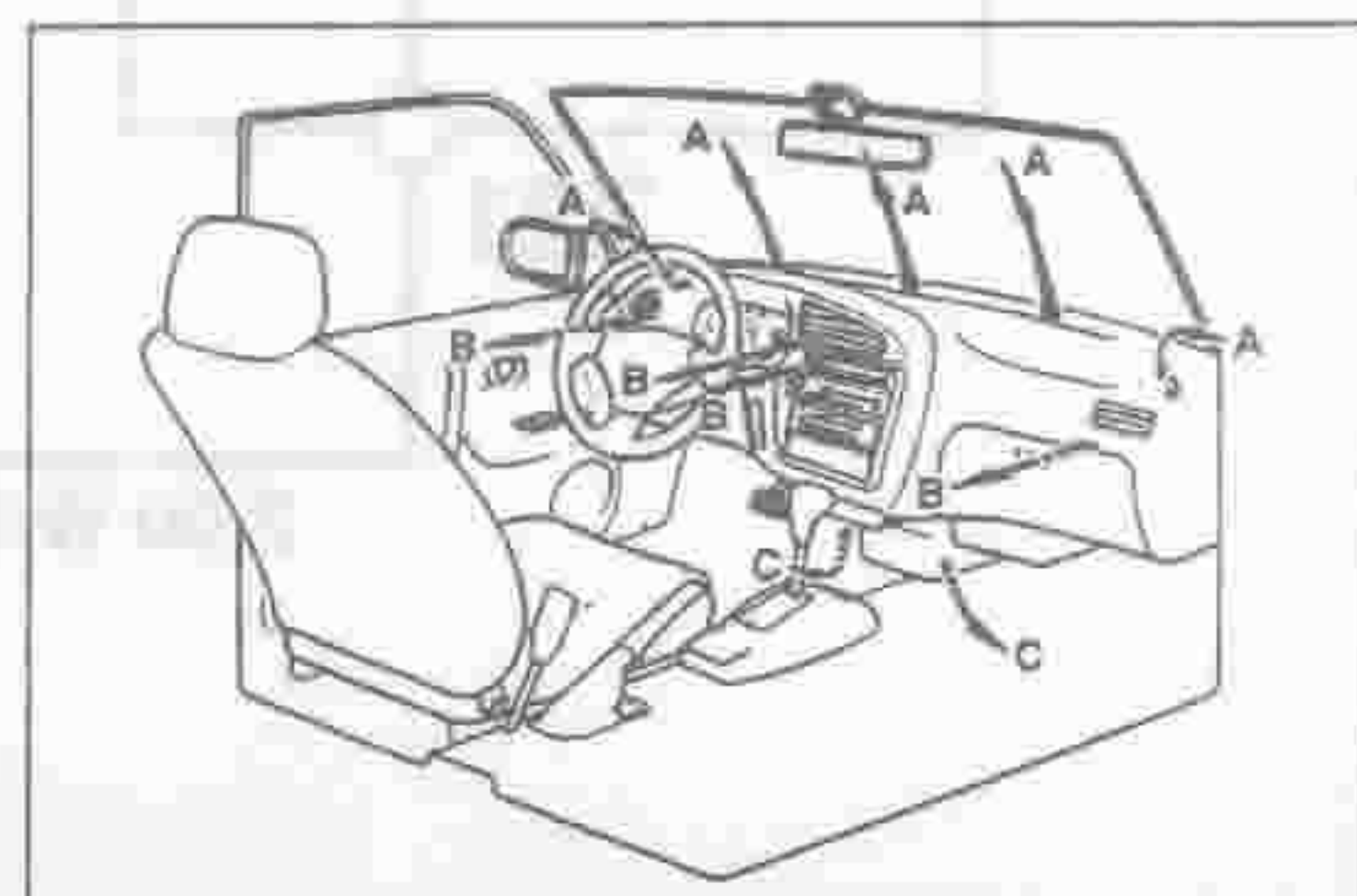
4. Set the control lever to the RECIRC mode ③. Clamp the outer cable while pulling the outer cable toward RECIRC side.



LBE00125-00614

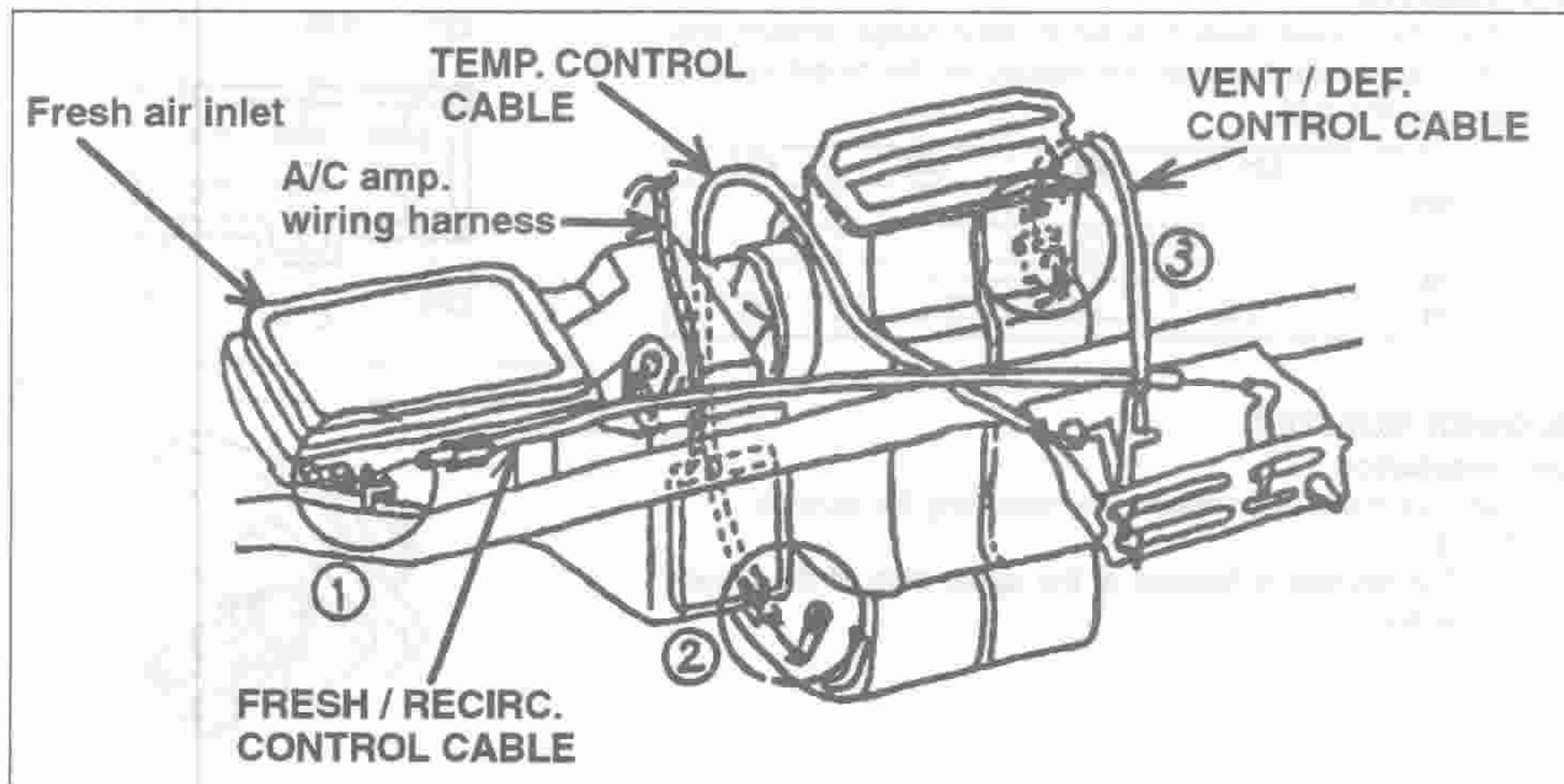
5. After completion of the adjustments in the steps 2 through 4, set the blower switch to the most highest position ④. Check the following items.

- (1) When the VENT mode is selected, ensure that no air leaks from the foot side outlet and defroster.
- (2) When the DEF mode is selected, ensure that no air leaks from the foot side outlet and register.
- (3) When the FOOT mode is selected, ensure that no air leaks from the register. if not, readjust the control lever.



LBE00126-00615

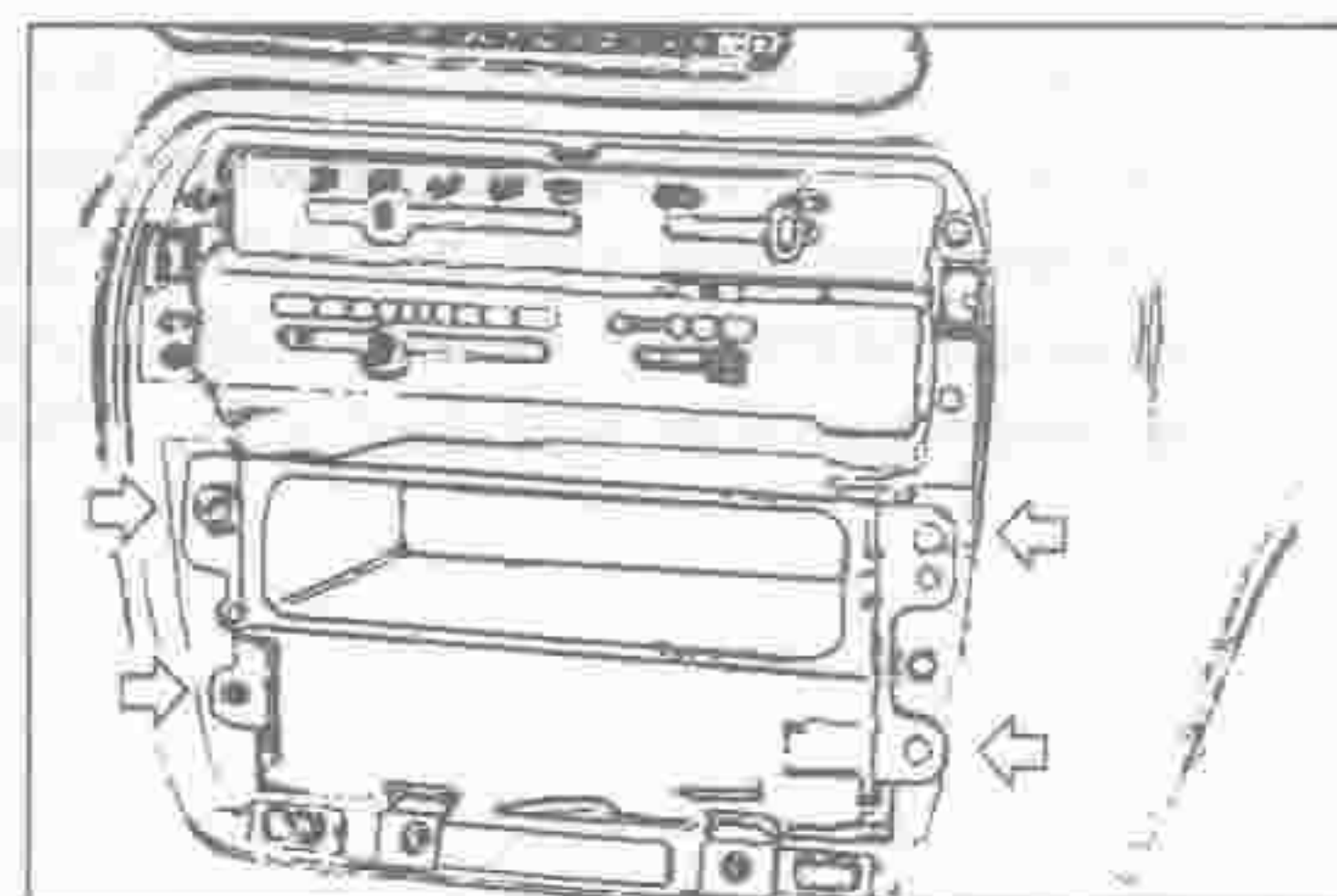
HEATER CONTROL ASSEMBLY



LBE00127-00620

Removal of heater control assembly

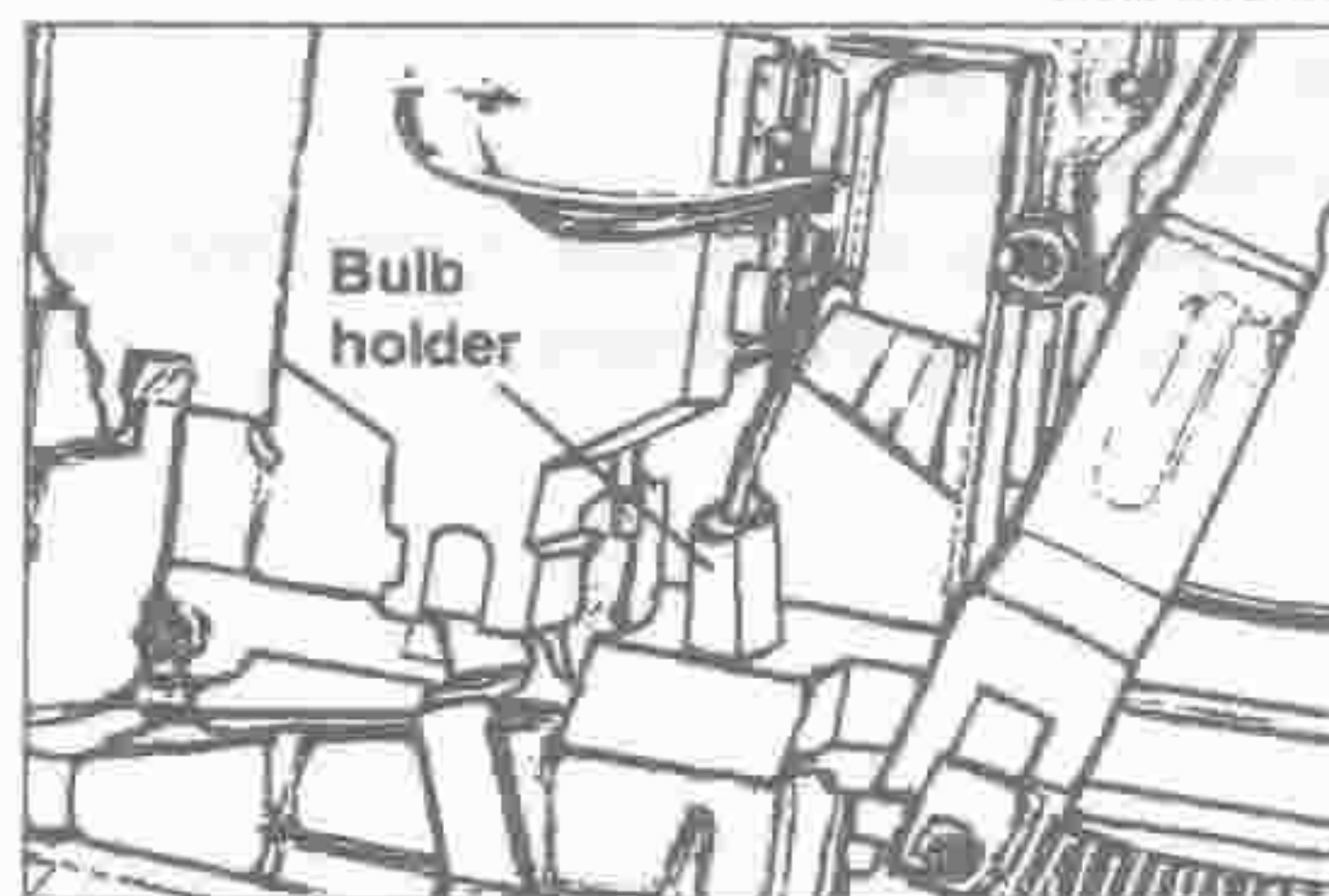
1. Disconnect the negative (-) battery cable from the negative battery terminal.
2. Remove the instrument cluster finish center lower panel.
3. Remove the attaching screws of the tray.



LBE00128-00621

BLOWER SWITCH ILLUMINATION

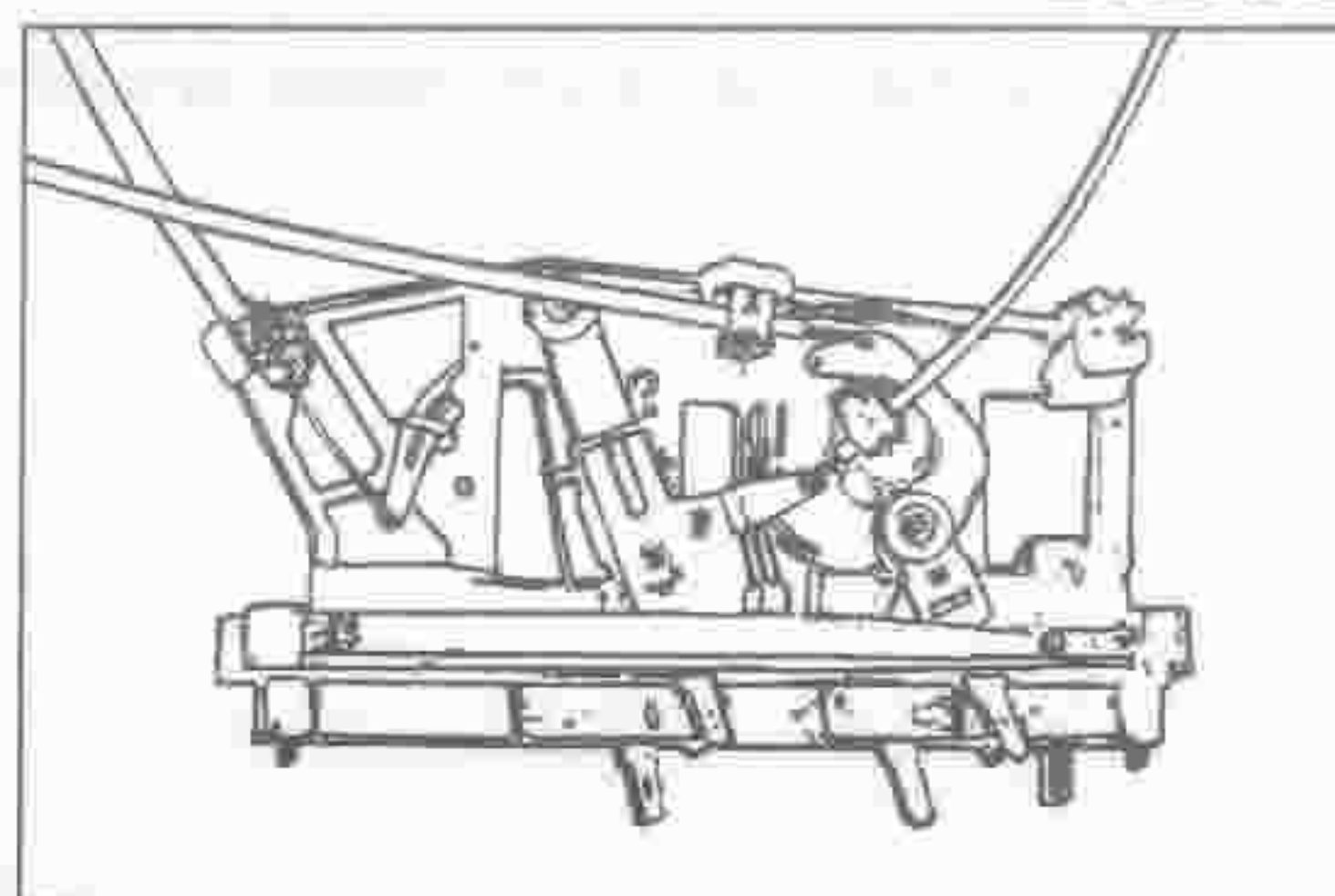
1. Remove the bulb holder by turning it counterclockwise.
2. Pull out the bulb straight.



LBE00129-00622

BLOWER SWITCH

1. Disconnect the connector of the blower switch.
2. Disconnect the connector of the air conditioner switch, if equipped.
3. Disconnect the control cables from the heater unit.
4. Remove the heater control assembly.

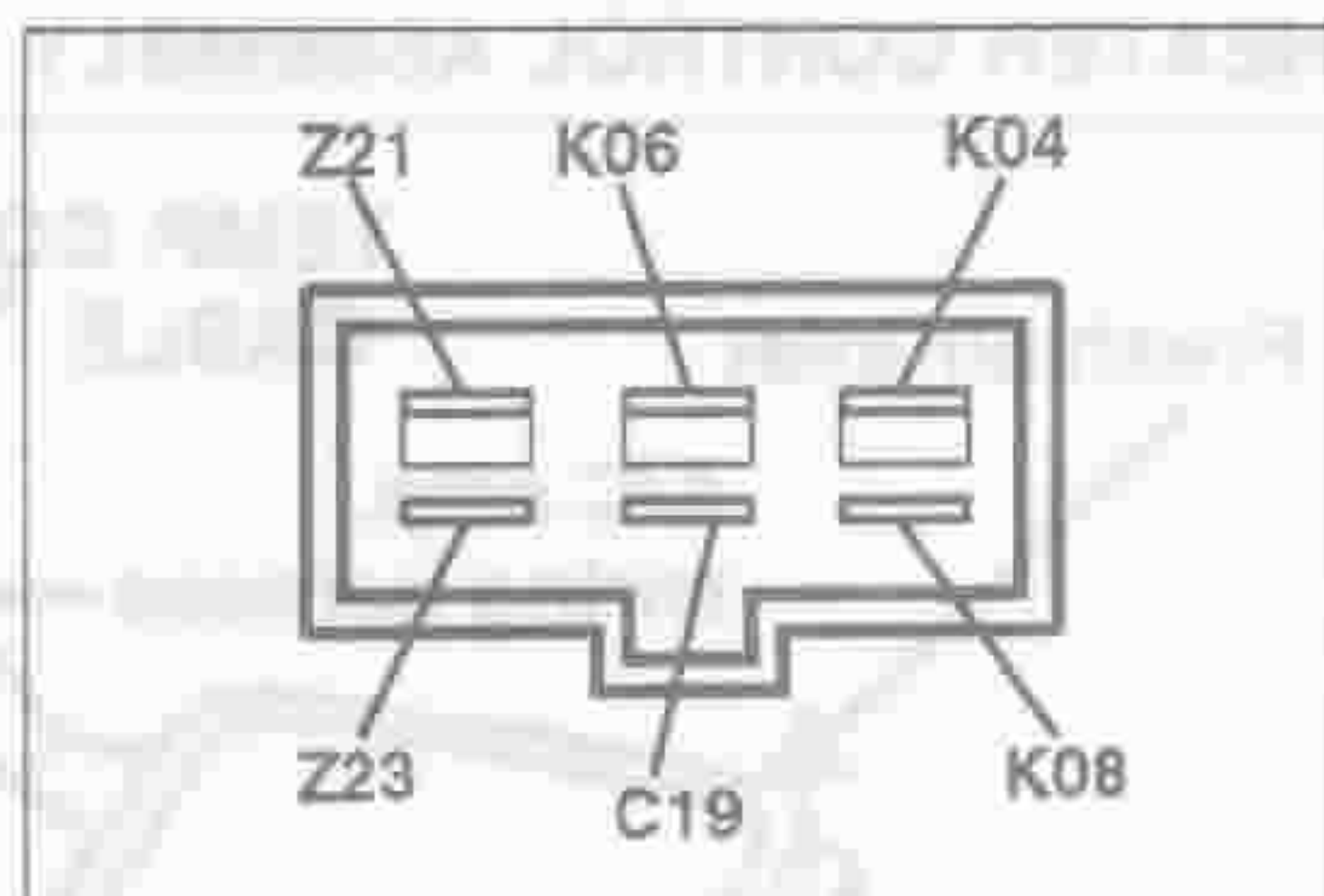


LBE00130-00623

Unit inspection

When the blower switch is set to each stage, ensure that continuity exists between the respective terminals as indicated in the table.

	Z21	K8	K06	K04
OFF				
L	○	○		
M	○	○	○	
H	○	○		○



LBE00131-00624

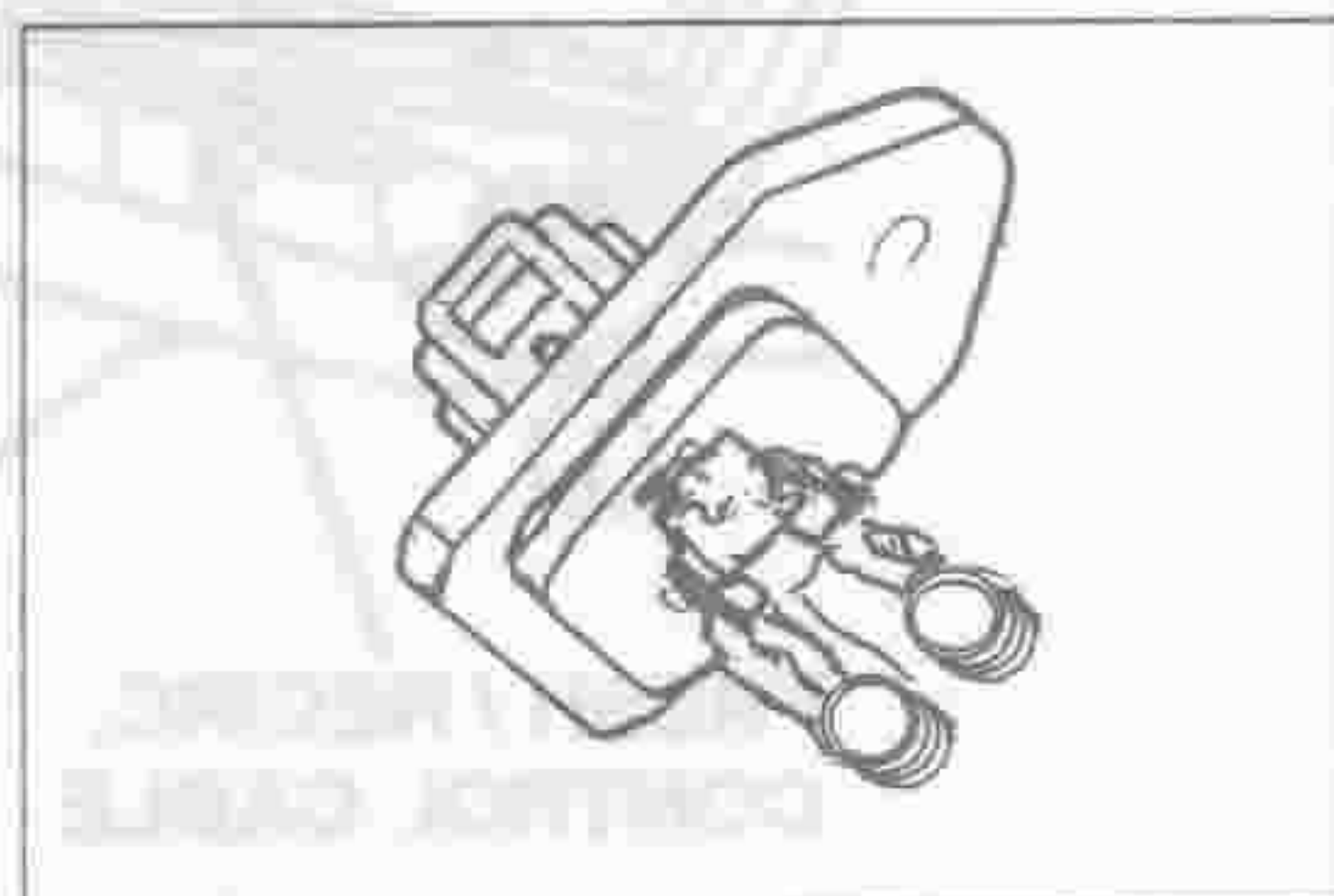
BLOWER RESISTER

Unit inspection

1. Remove the blower resister by removing the screws.

NOTE:

- The resister is located at the upper side of the blower motor.



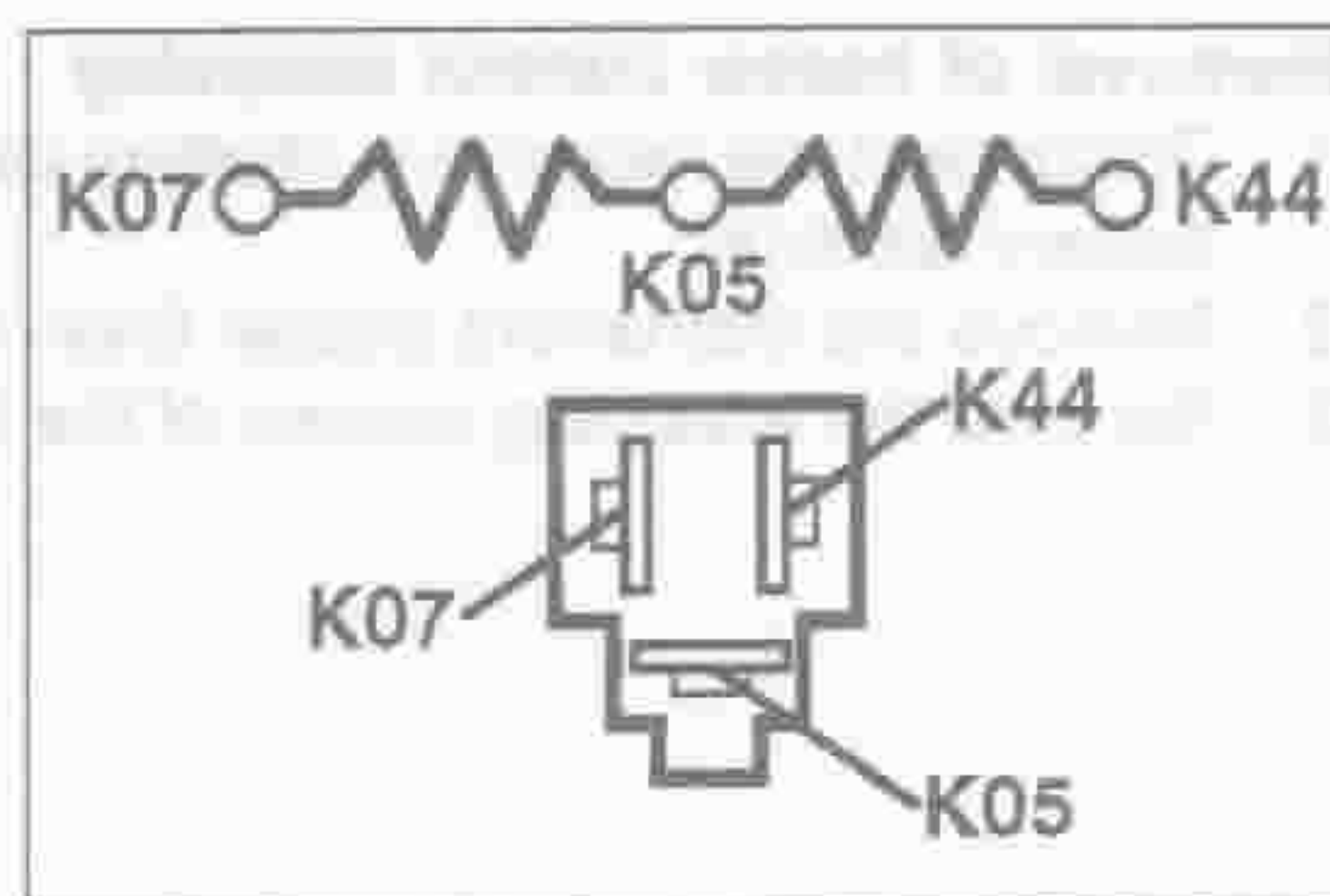
LBE00132-00651

2. Ensure that resistance between the respective terminals conforms to the following specifications.

Between terminal K44 and K07; 3.6 Ω

Between terminal K44 and K05; 2.8 Ω

Between terminal K07 and K05; 0.8 Ω

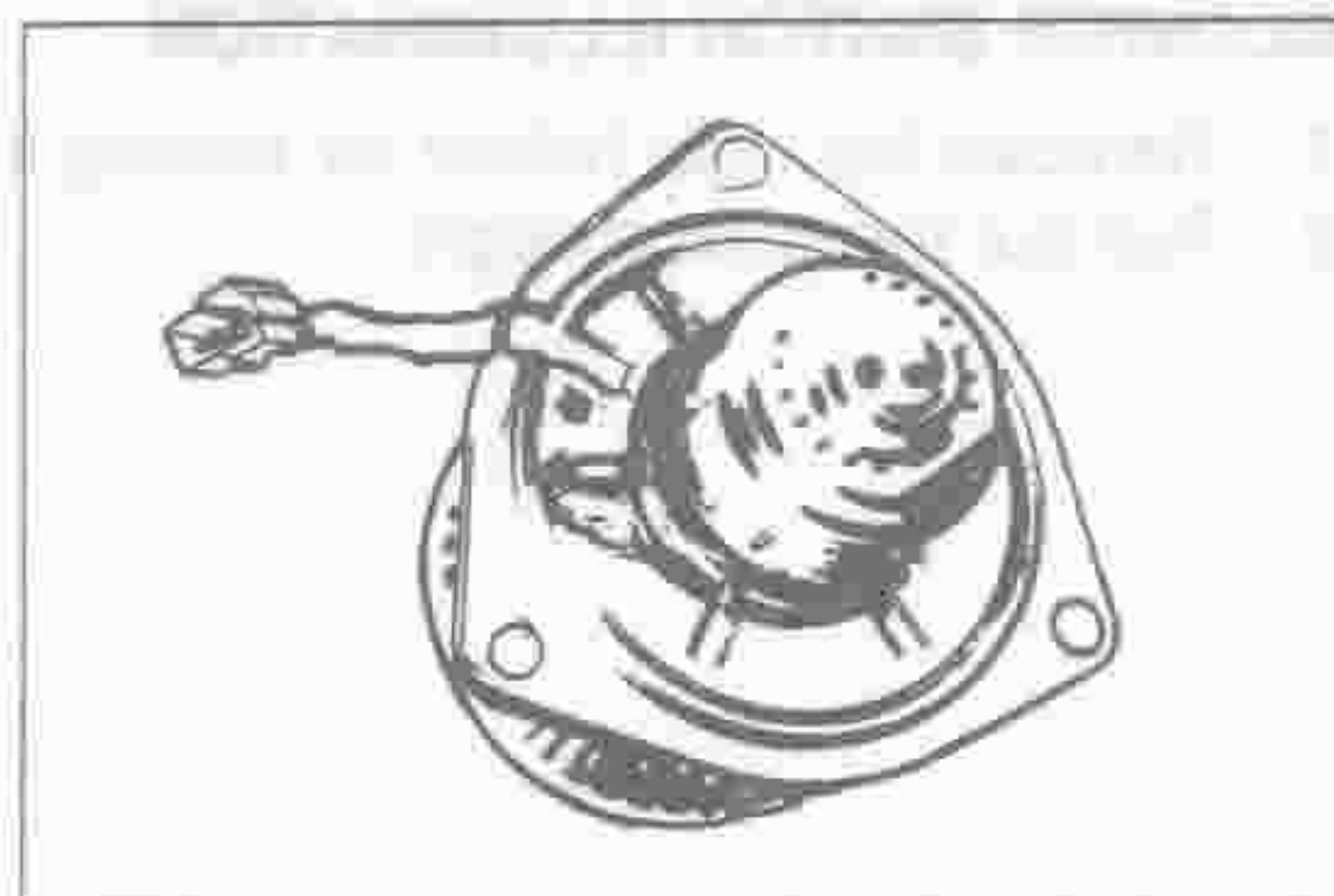


LBE00133-00652

BLOWER MOTOR

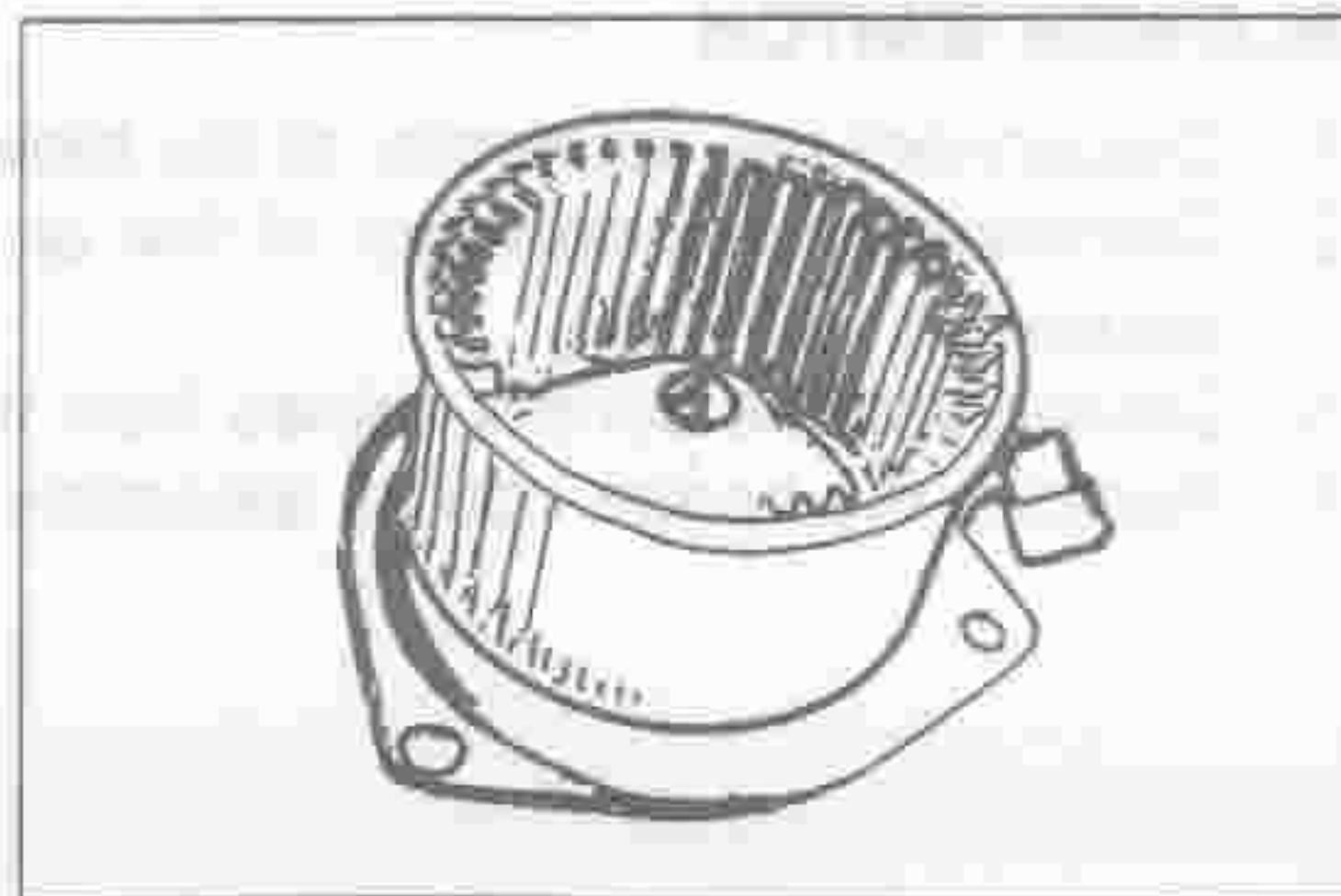
Unit inspection

1. Remove the blower motor from the blower assembly by removing the screws.



LBE00134-00651

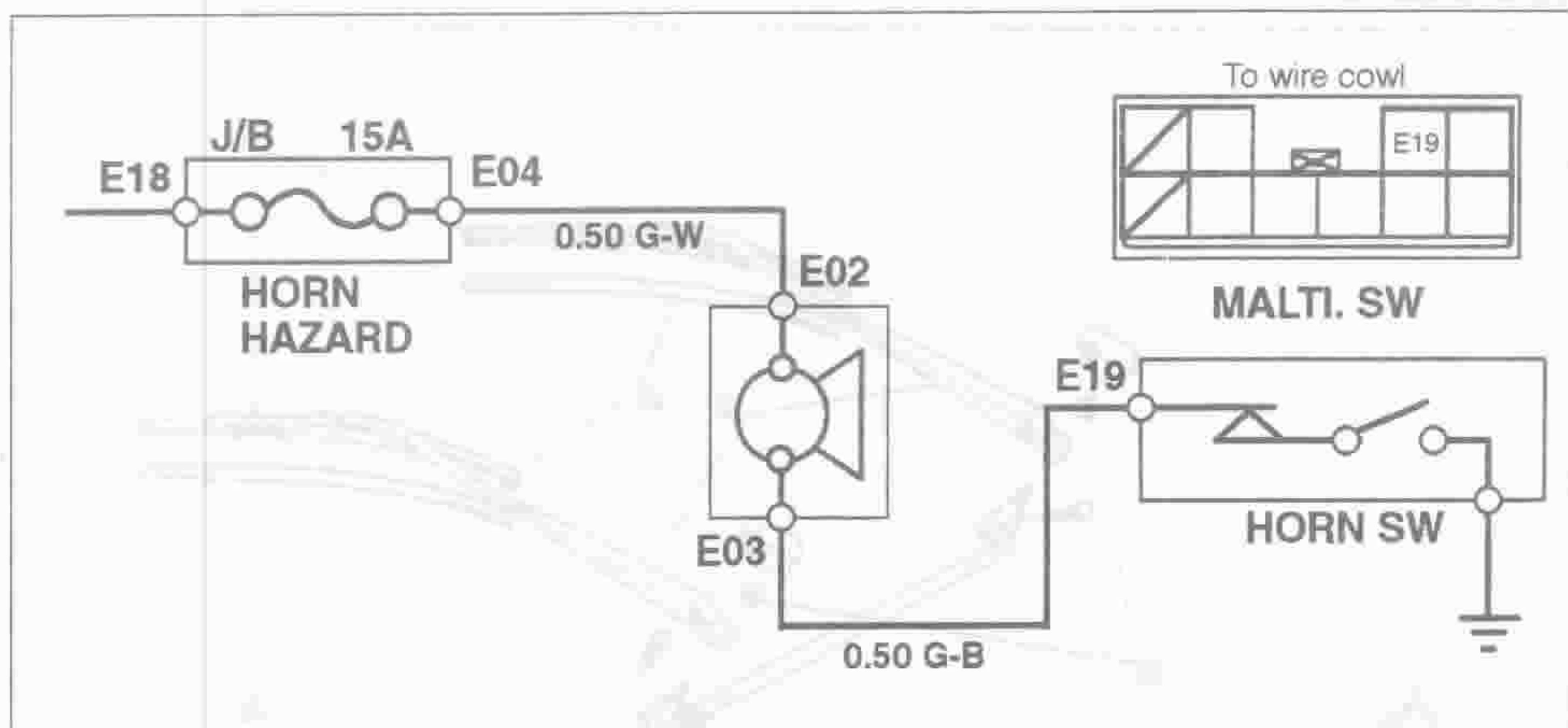
2. Ensure that the motor rotates smoothly by hand.



LBE00135-00652

07 HORN

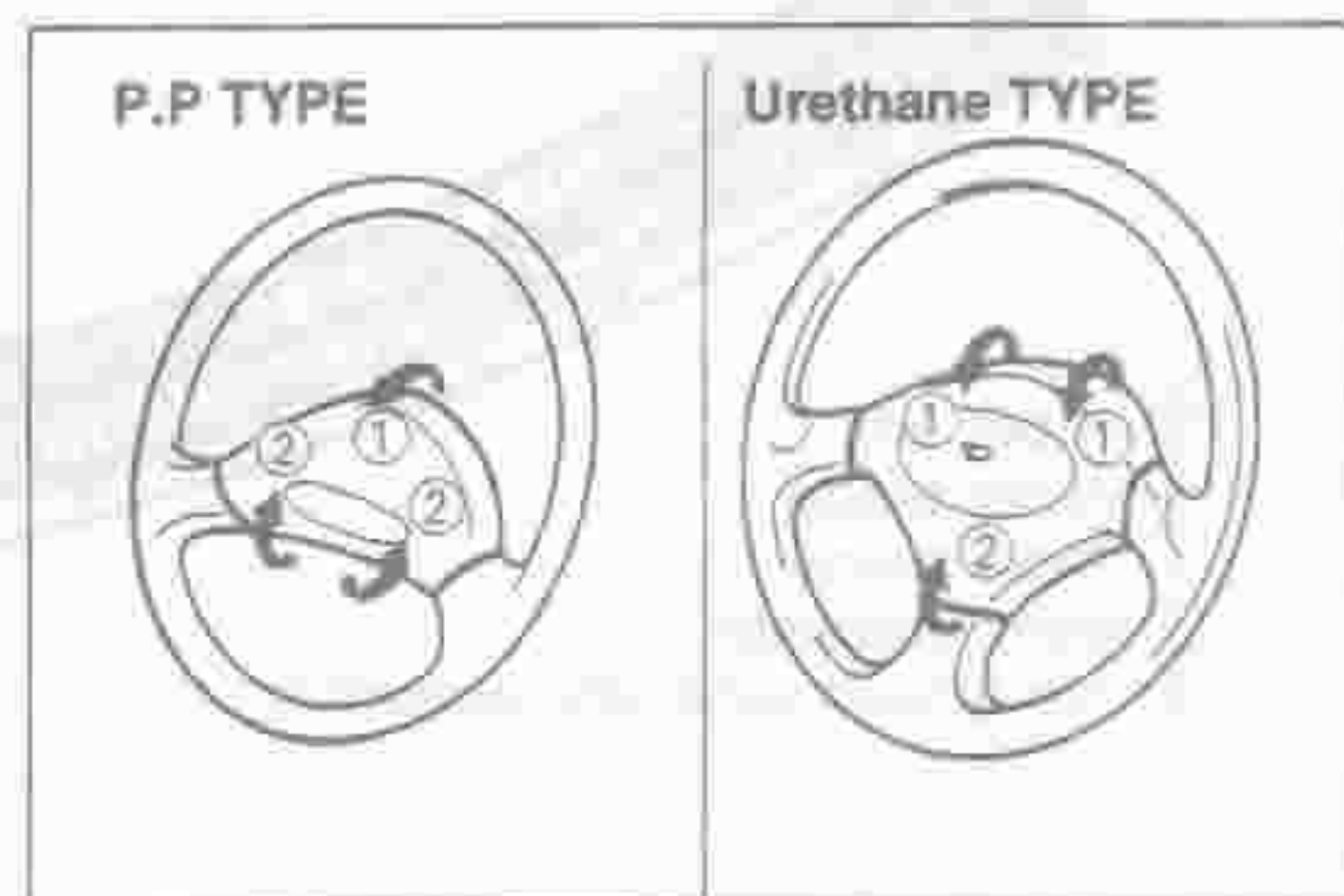
WIRING DIAGRAM



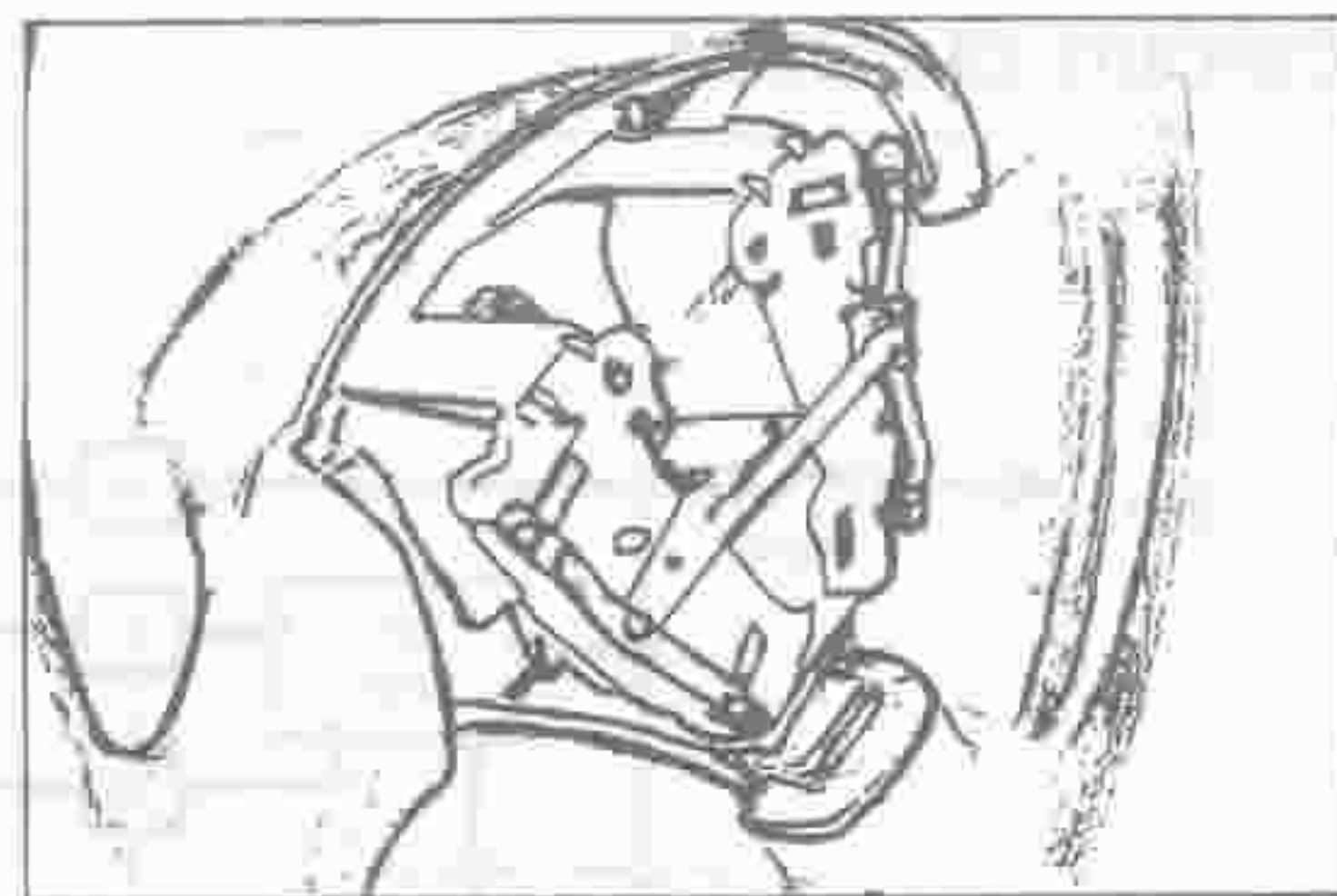
LBE00136-00700

In-vehicle inspection

1. Disconnect the negative (-) battery cable from the negative battery terminal.
2. Hold the steering wheel pad at its lower end by your hands. Then, detach the steering wheel pad by pulling it toward your side in accordance with the sequence number in the illustration.
3. Connect the negative battery cable to the negative battery terminal. Ensure that the horn set off when the contact point of the horn to the earth point. If not, inspect or replace the wire harness and/or horn unit.



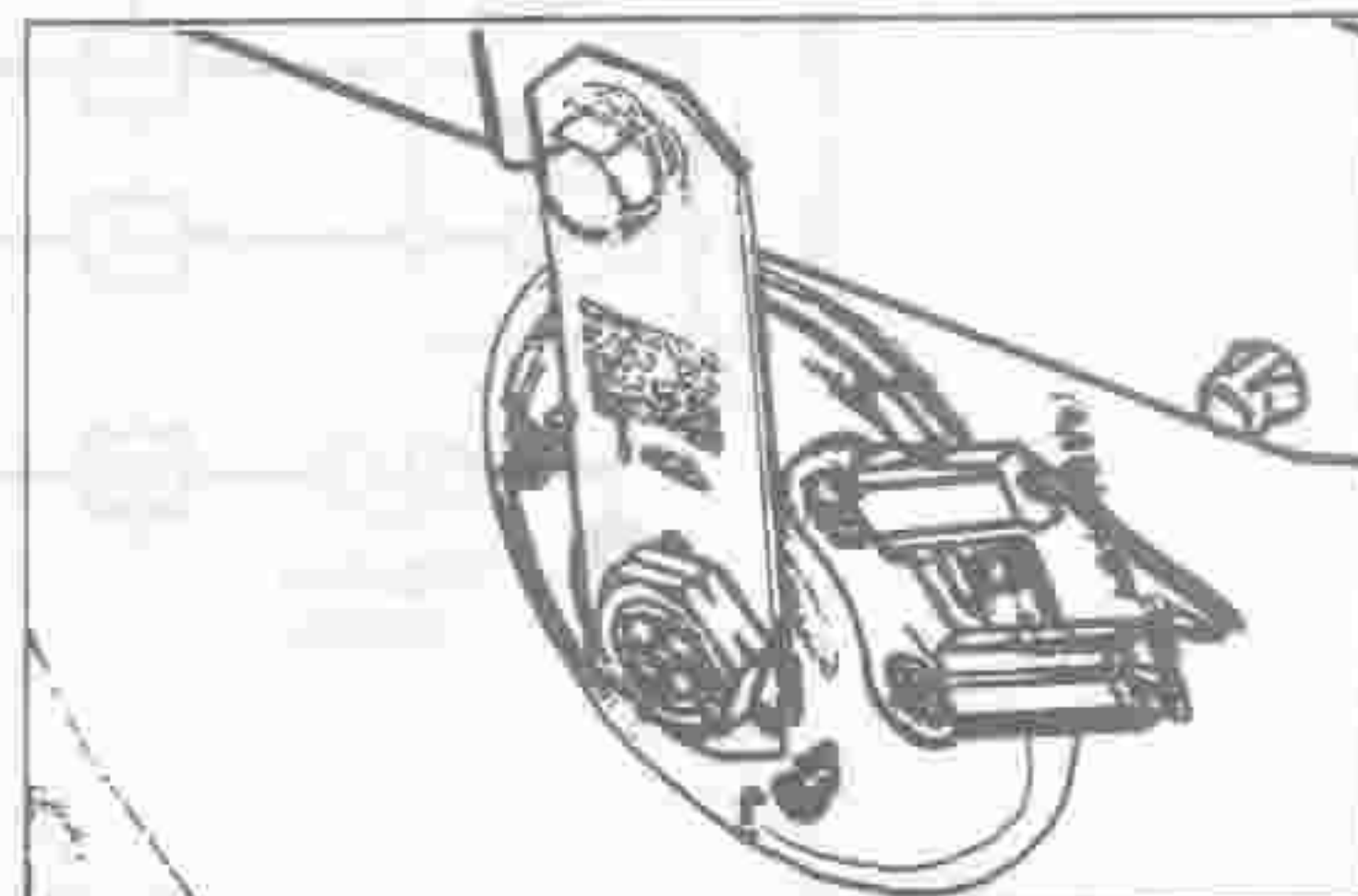
LBE00137-00711



LBE00138-00712

Unit inspection

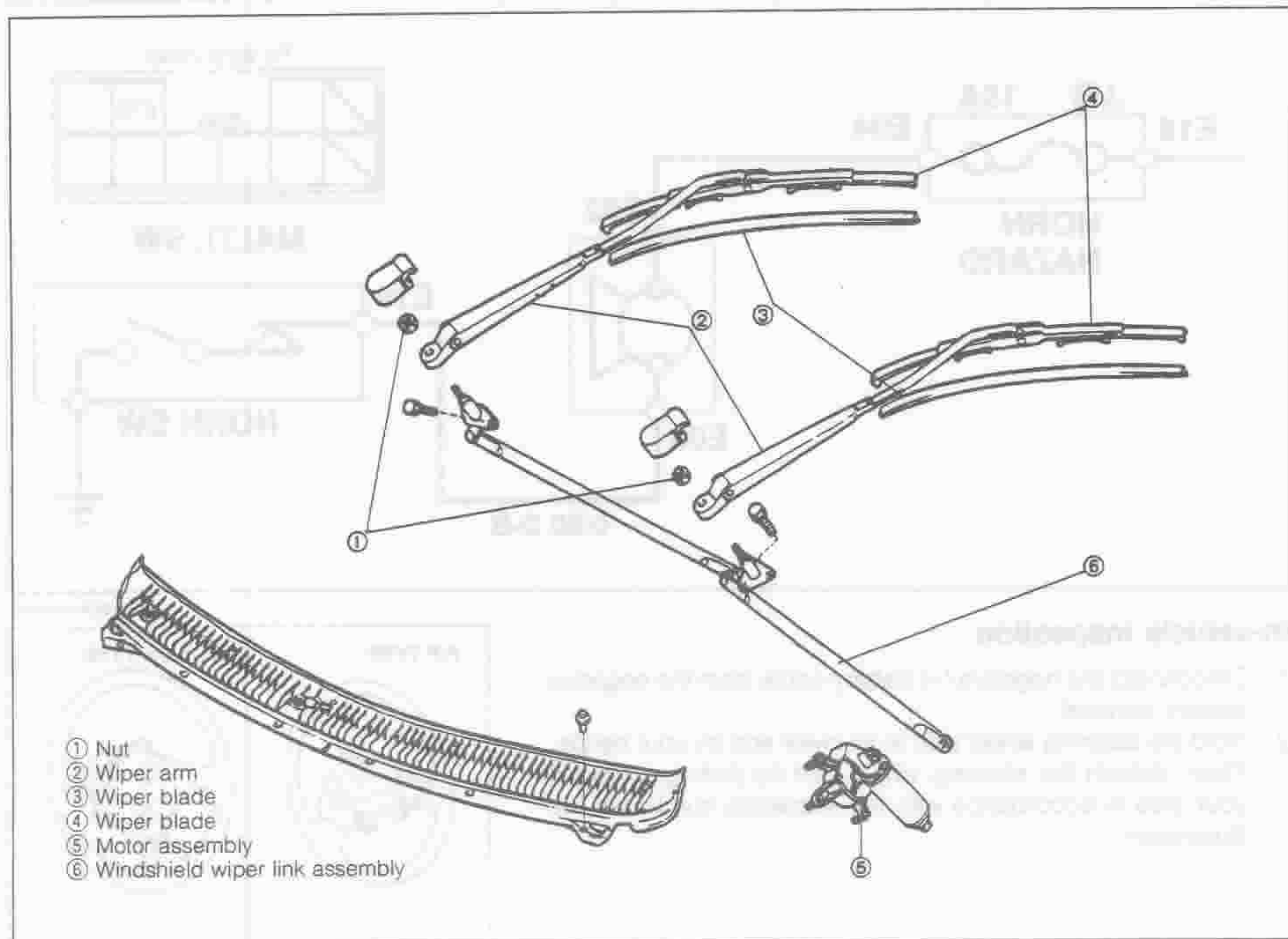
1. Disconnect the connector of the horn.
2. Test the horn by connecting battery voltage to the terminals. If the horn fails to sound, replace the horn.



LBE00139-00721

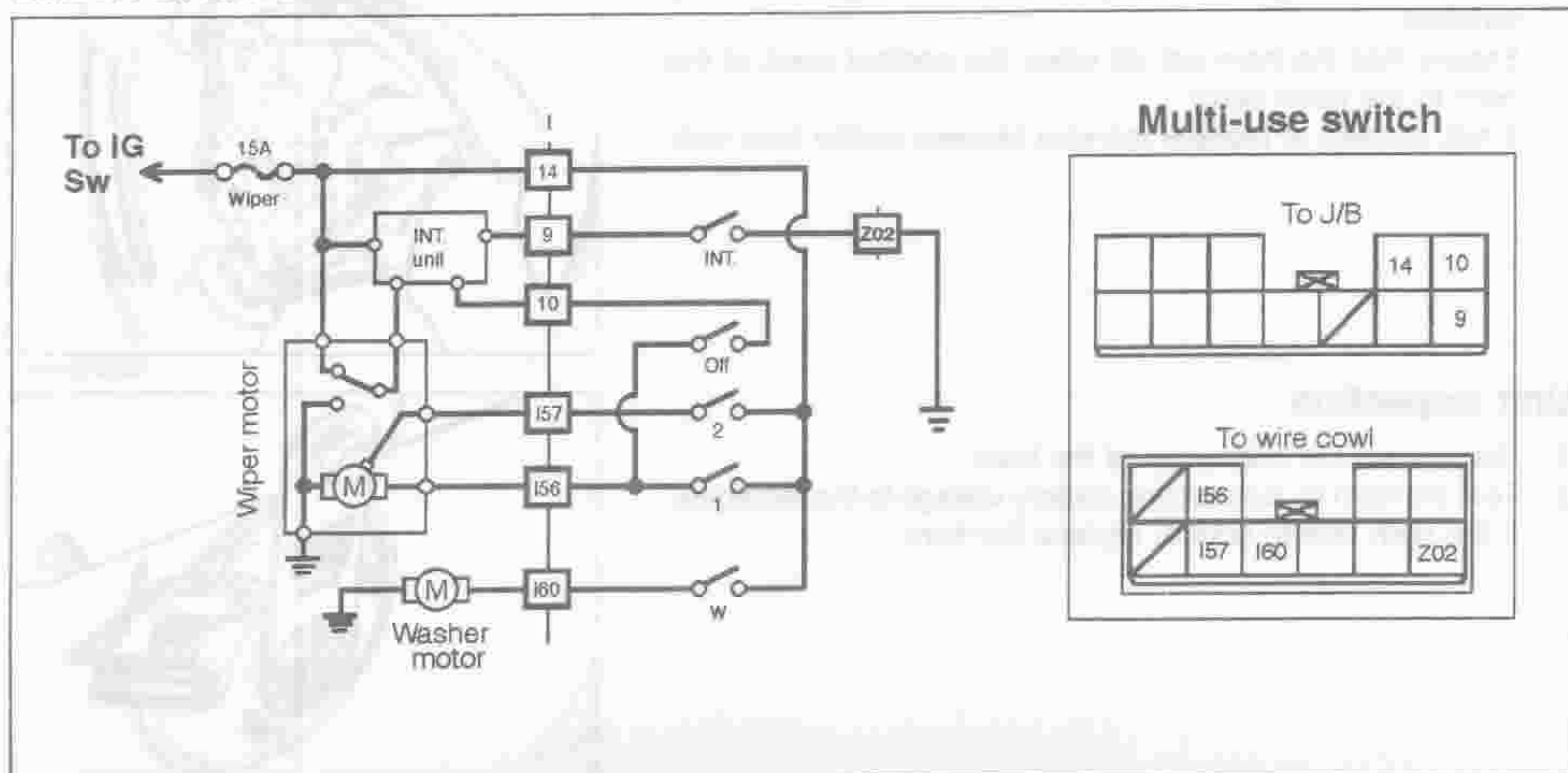
11 WIPER, WASHER & DEFOGGER COMPONENTS

WIPER TO
WASHER MOTOR



LBE00140-01100

CIRCUIT DIAGRAM

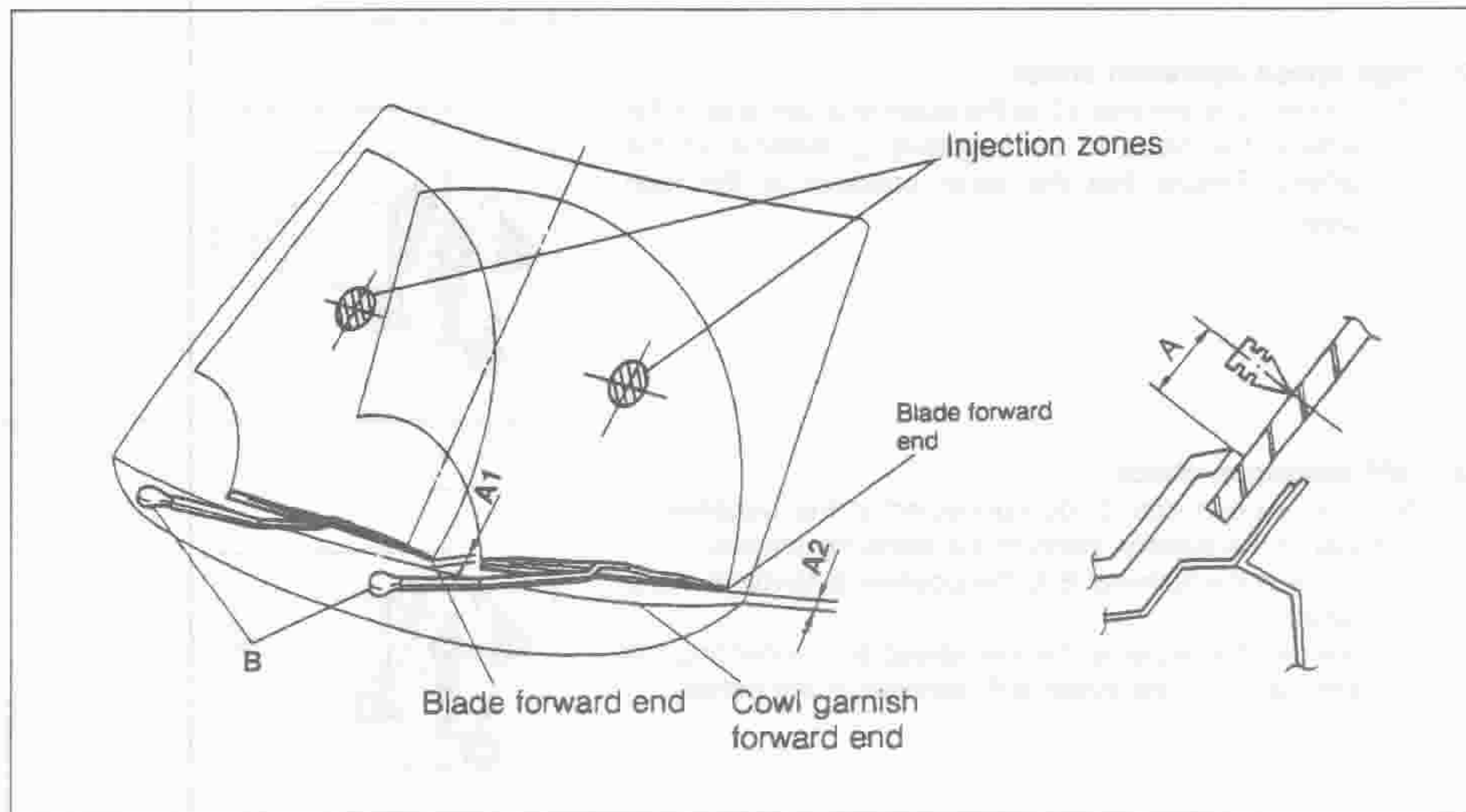


LBE00141-01110

FRONT WIPER

In-vehicle inspection

1. Inspect the wiping area and stationary position of the wiper blade.
2. Inspect the blade for damage or deformation.
 - A1 : 25 – 35 mm for AUS. & UK.
15 – 35 mm for others
 - A2 : 40 – 50 mm for AUS. & UK
15 – 35 mm for others
 - B : Tightening torque; 15 - 29 N·m



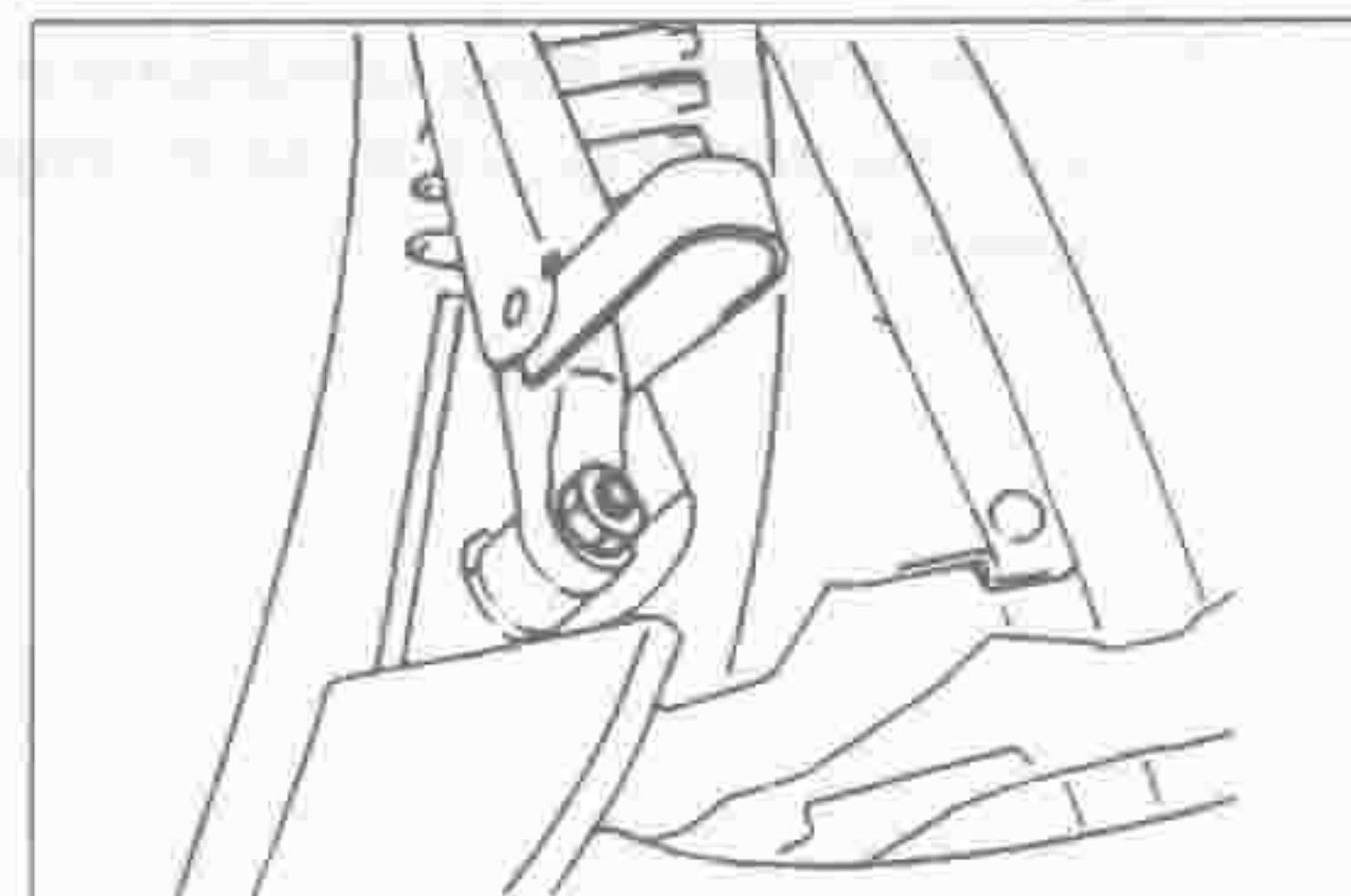
LBE00142-01121

Removal

1. Remove the nut cover and attaching nut of the wiper arm.
2. Remove the wiper arm with blade.
3. Open the engine hood.
4. Removal of cowl top ventilator louver and hood-to-cowl top seal
 - (1) Push the central part of the clip slightly.
 - (2) Remove the clip.

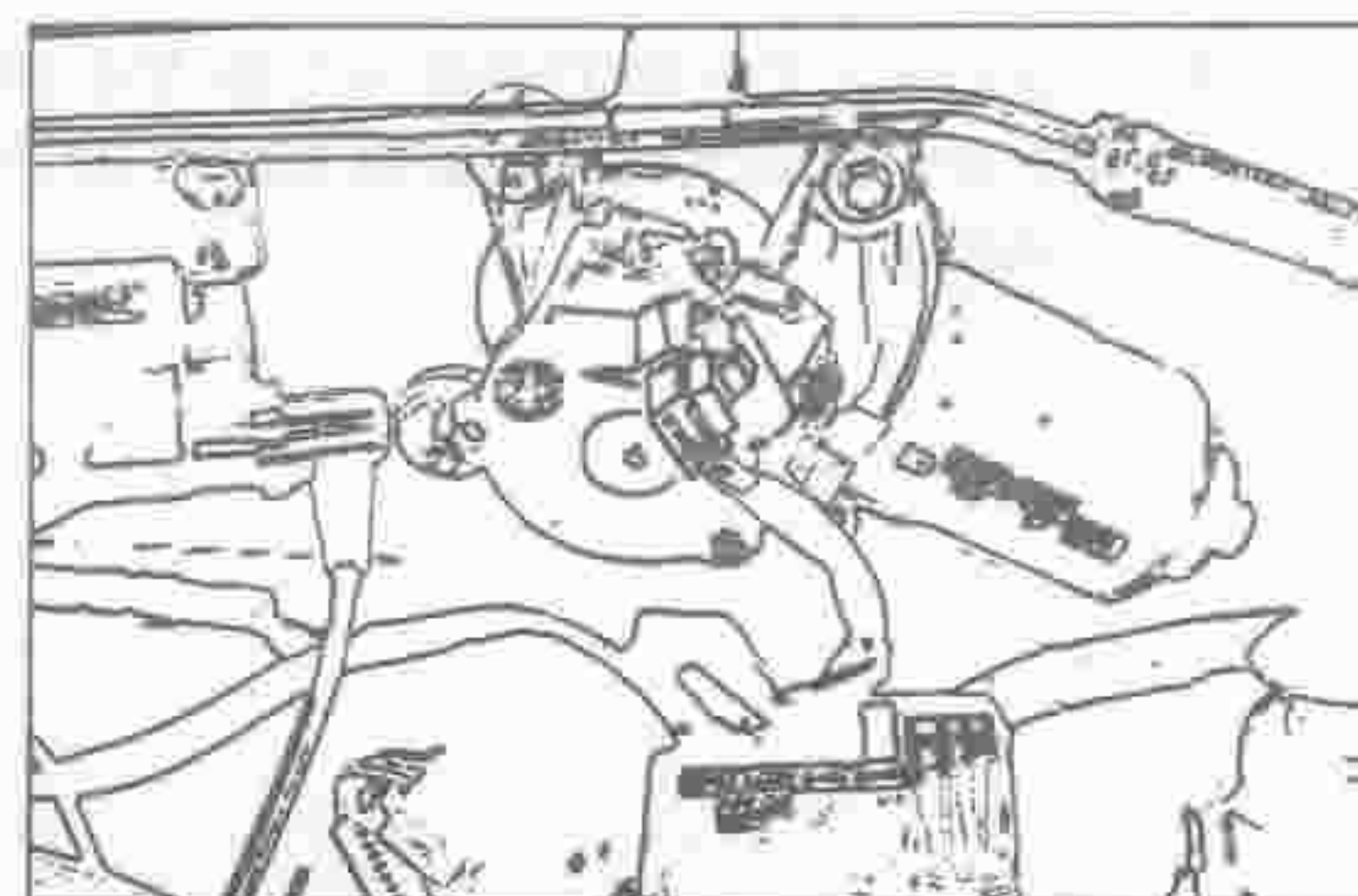
NOTE:

- Closing the engine hood about half way will facilitate the removal of the cowl top ventilator louver.



LBE00143-01122

6. Removal of wiper motor assembly
 - (1) Disconnect the connector of the wiper motor.
 - (2) Remove the retaining bolts of the wiper motor.
 - (3) Disconnect the wiper motor from the link.
 - (4) Remove the motor.
7. Removal of the wiper link.
 - (1) Remove the set bolt of the wiper link.
 - (2) Take out the wiper link assembly from the cowl louver hole.

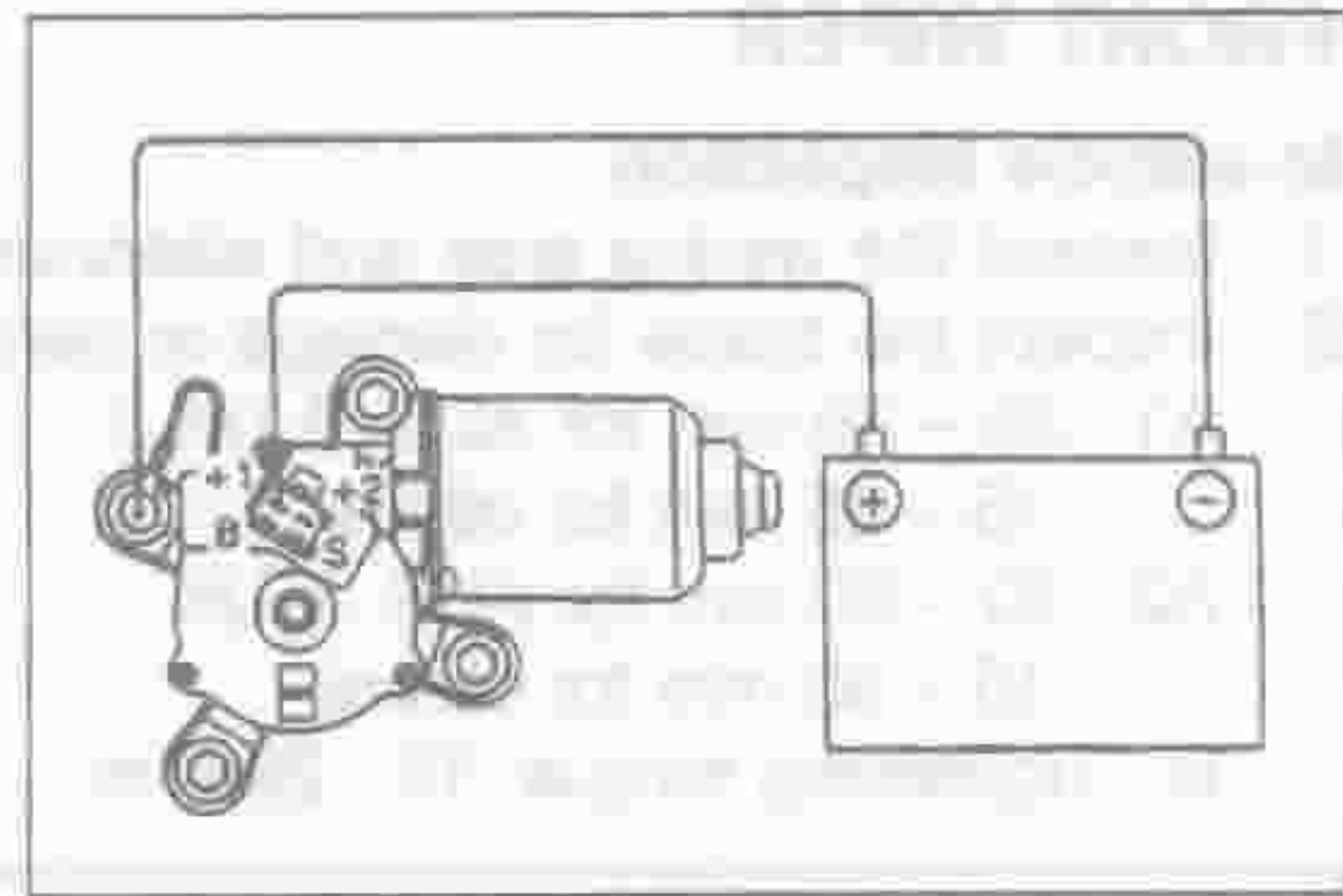


LBE00144-01124

Unit inspection

1. Low speed operation check

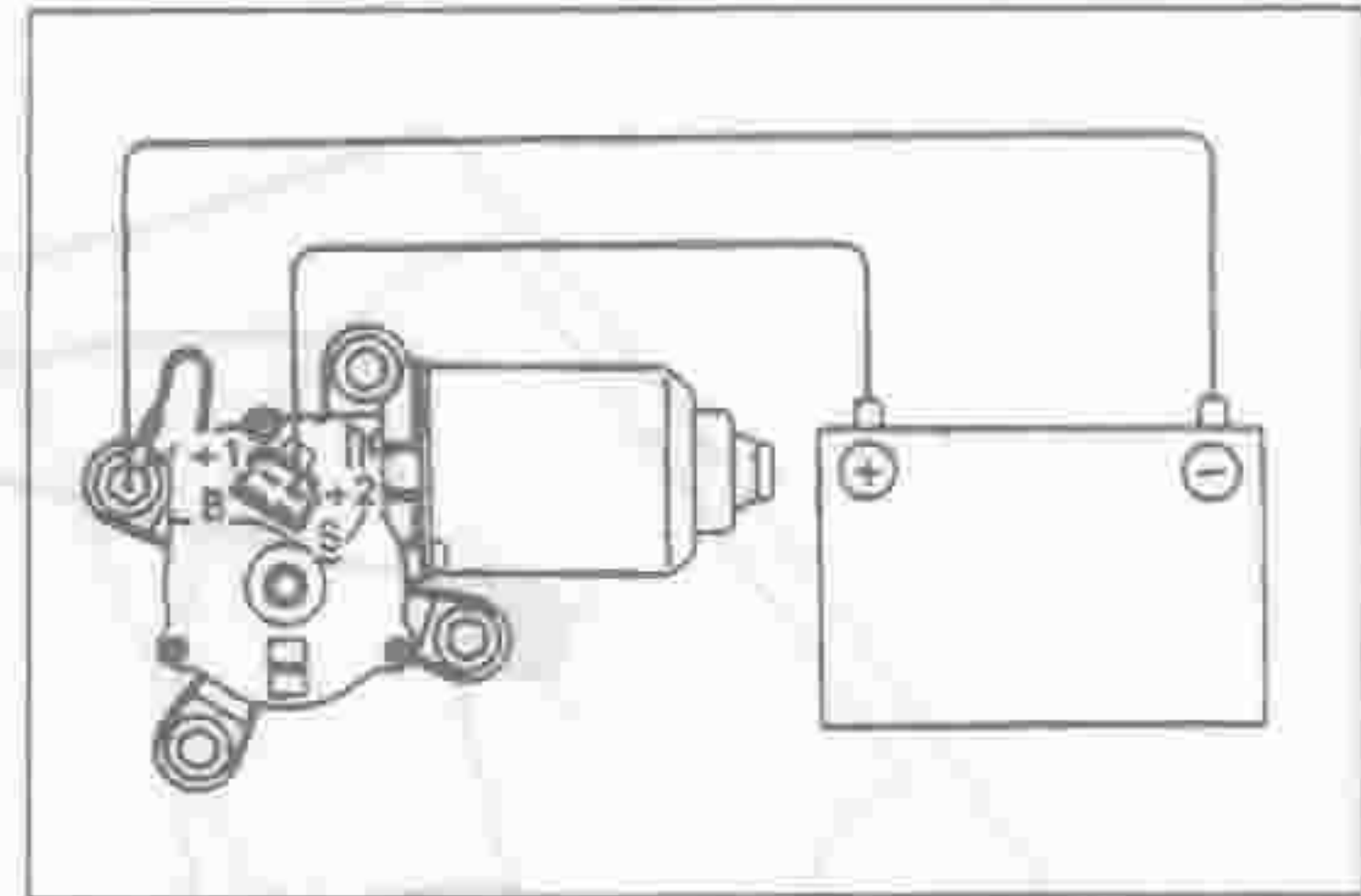
- (1) Connect the terminal +1 to the positive $\oplus$ terminal of the battery; the body to the negative $\ominus$ terminal of the battery. Ensure that the wiper operates at the low speed.



LBE00145-01126

2. High speed operation check

- (1) Connect the terminal +2 to the positive $\oplus$ terminal of the battery; the body to the negative $\ominus$ terminal of the battery. Ensure that the wiper operates at the high speed.

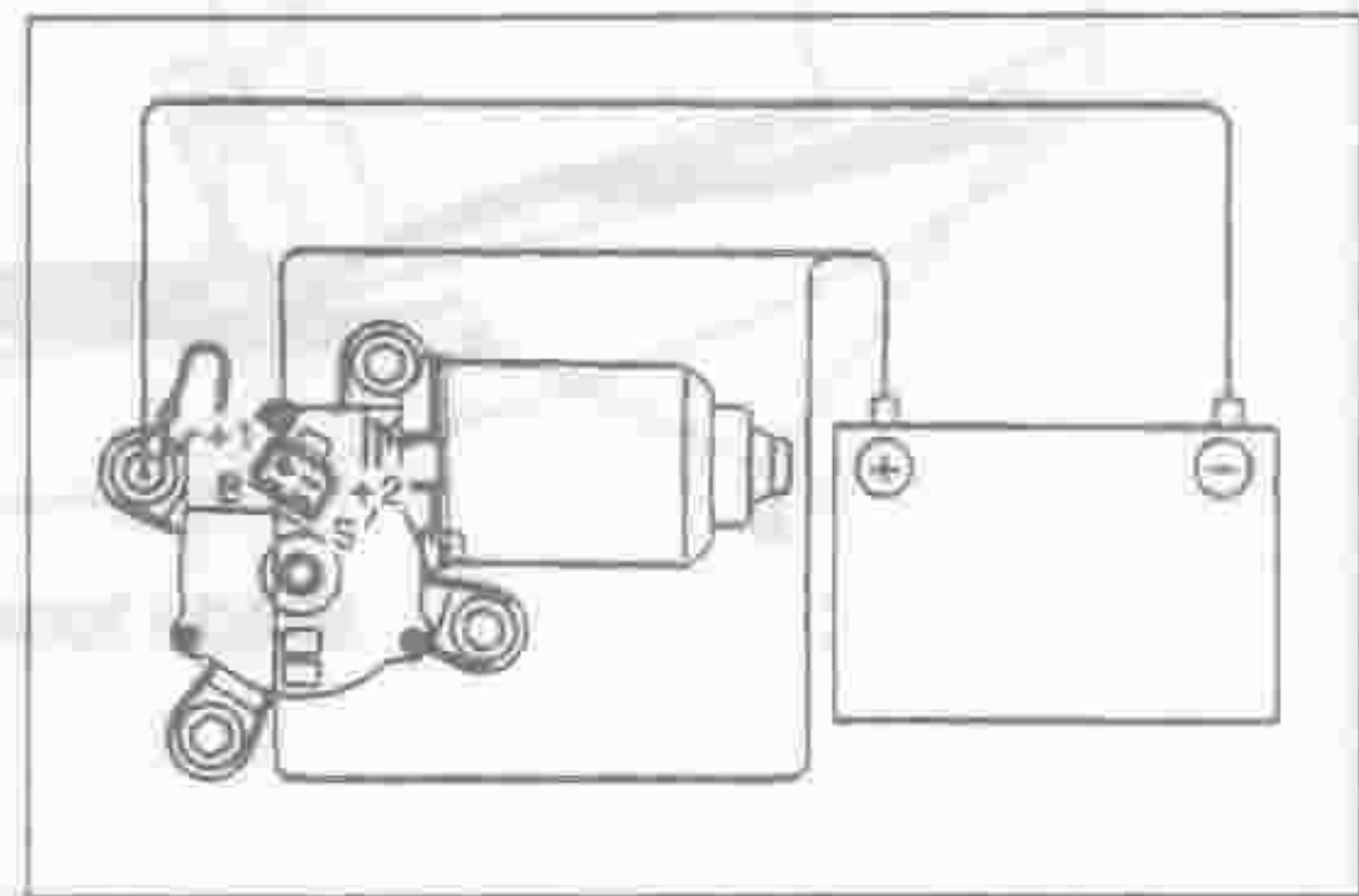


LBE00146-01127

3. OFF operation check

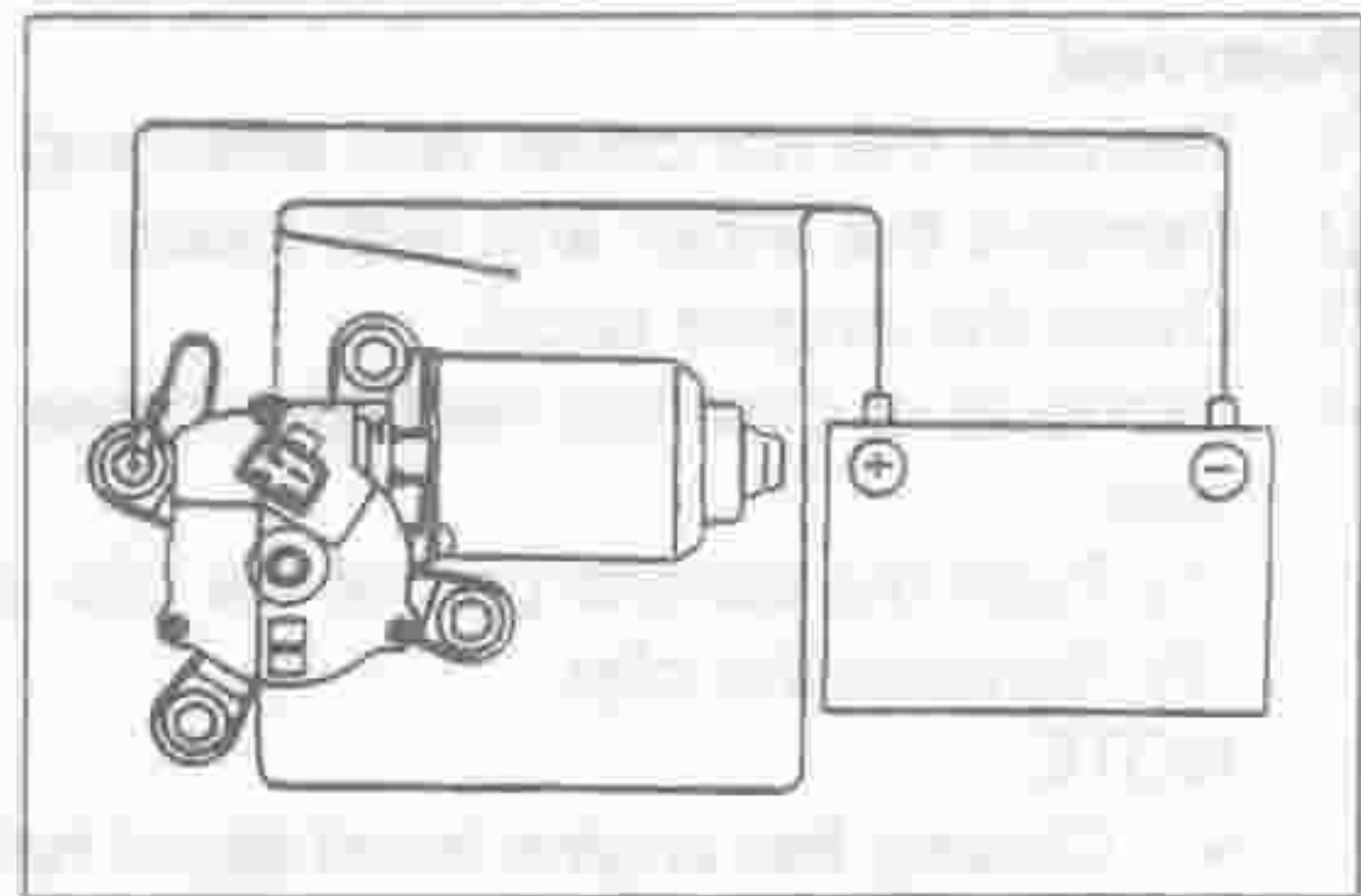
With the wiper motor body connected to the negative $\ominus$ terminal of the battery, perform the following checks.

- (1) Connect the terminal B to the positive $\oplus$ terminal of the battery.
- (2) Operate the wiper at the low speed by connecting the terminal +1 to the positive $\oplus$ terminal of the battery.



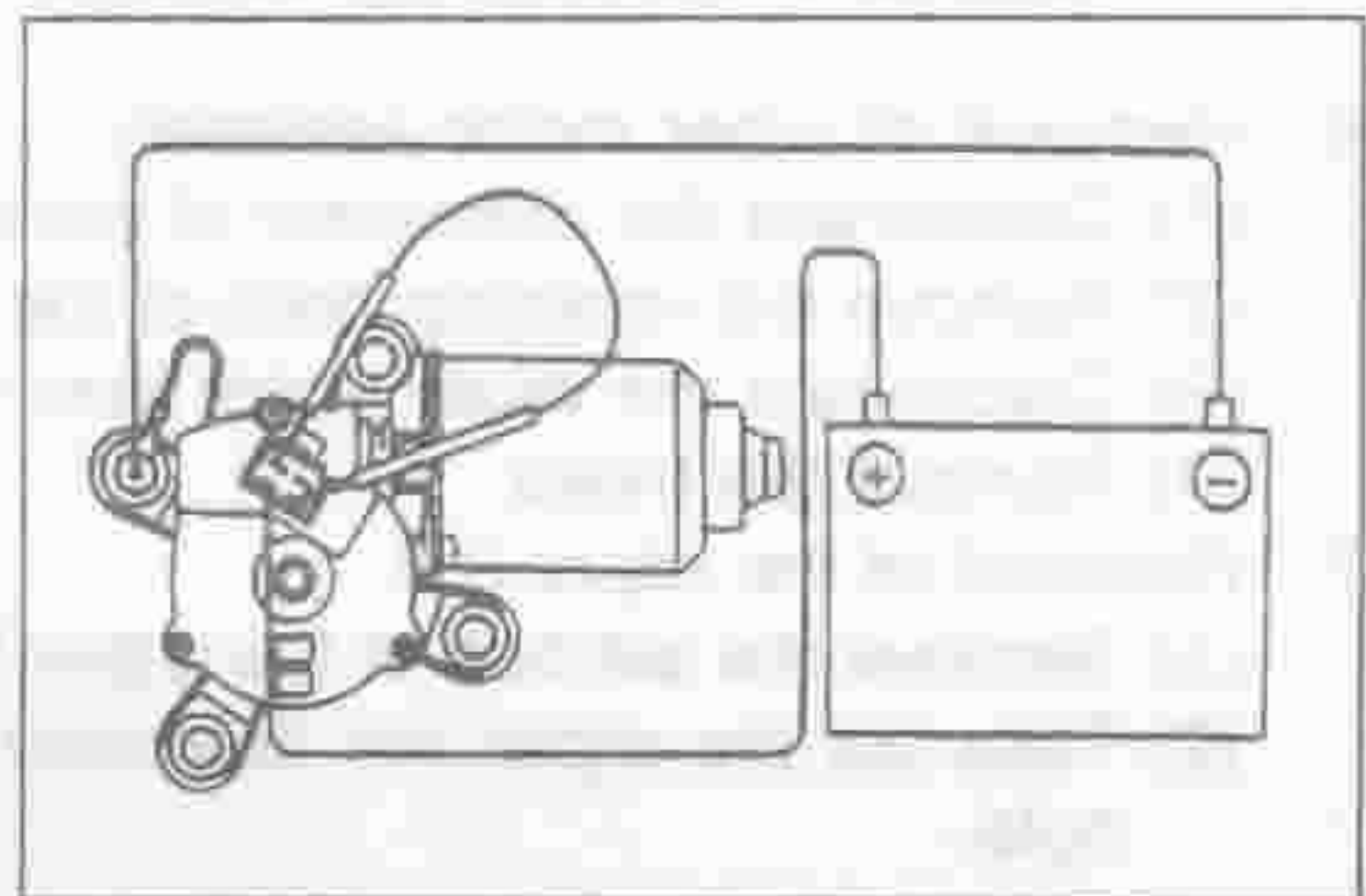
LBE00147-01128

- (3) Under the operating conditions in the step (2), disconnect the terminal +1 to as to interrupt the wiper motor operation.



LBE00148-01129

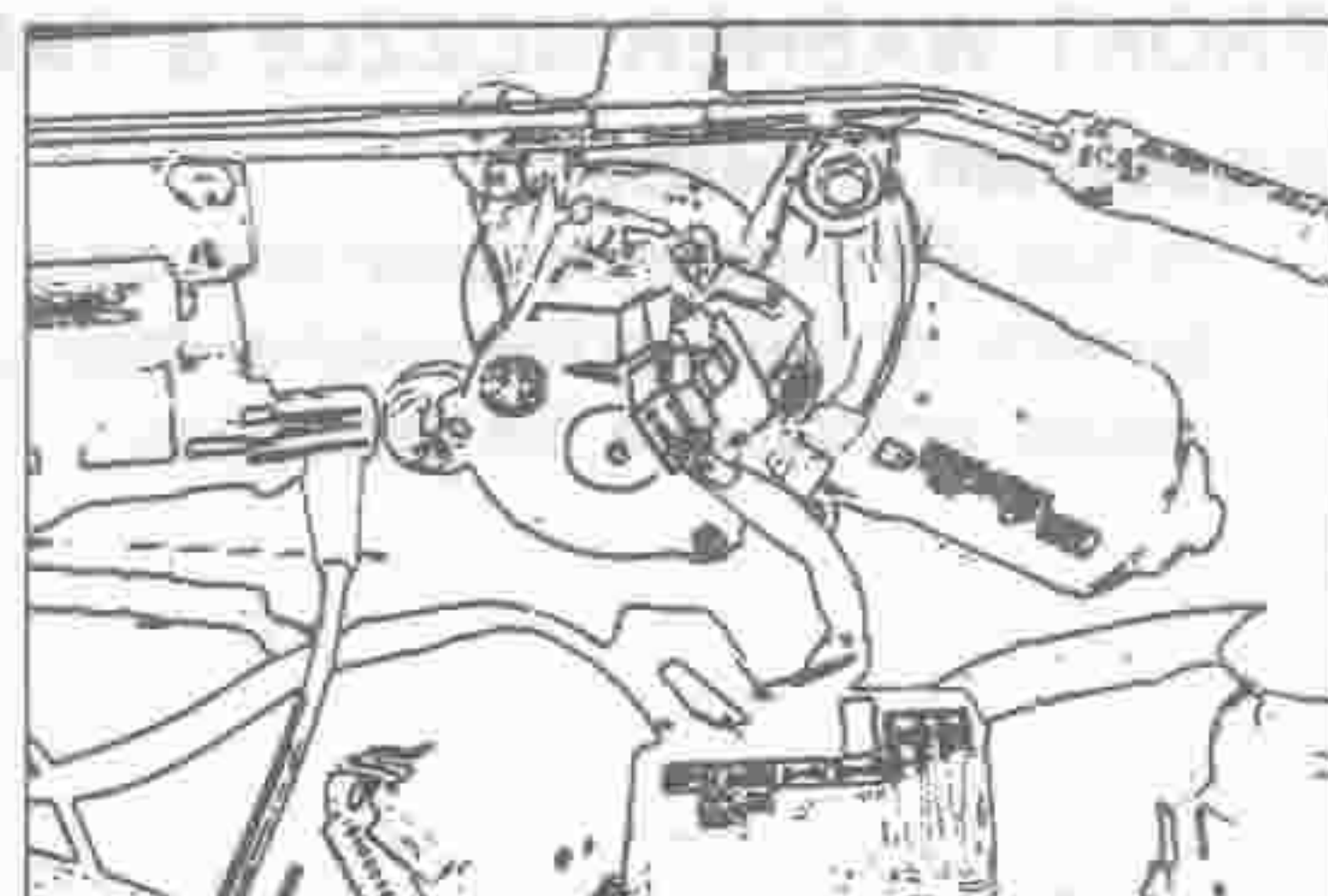
- (4) Connect the terminal +1 to the terminal S. Ensure that the wiper operates and stops at the automatic stopping position.



LBE00149-01130

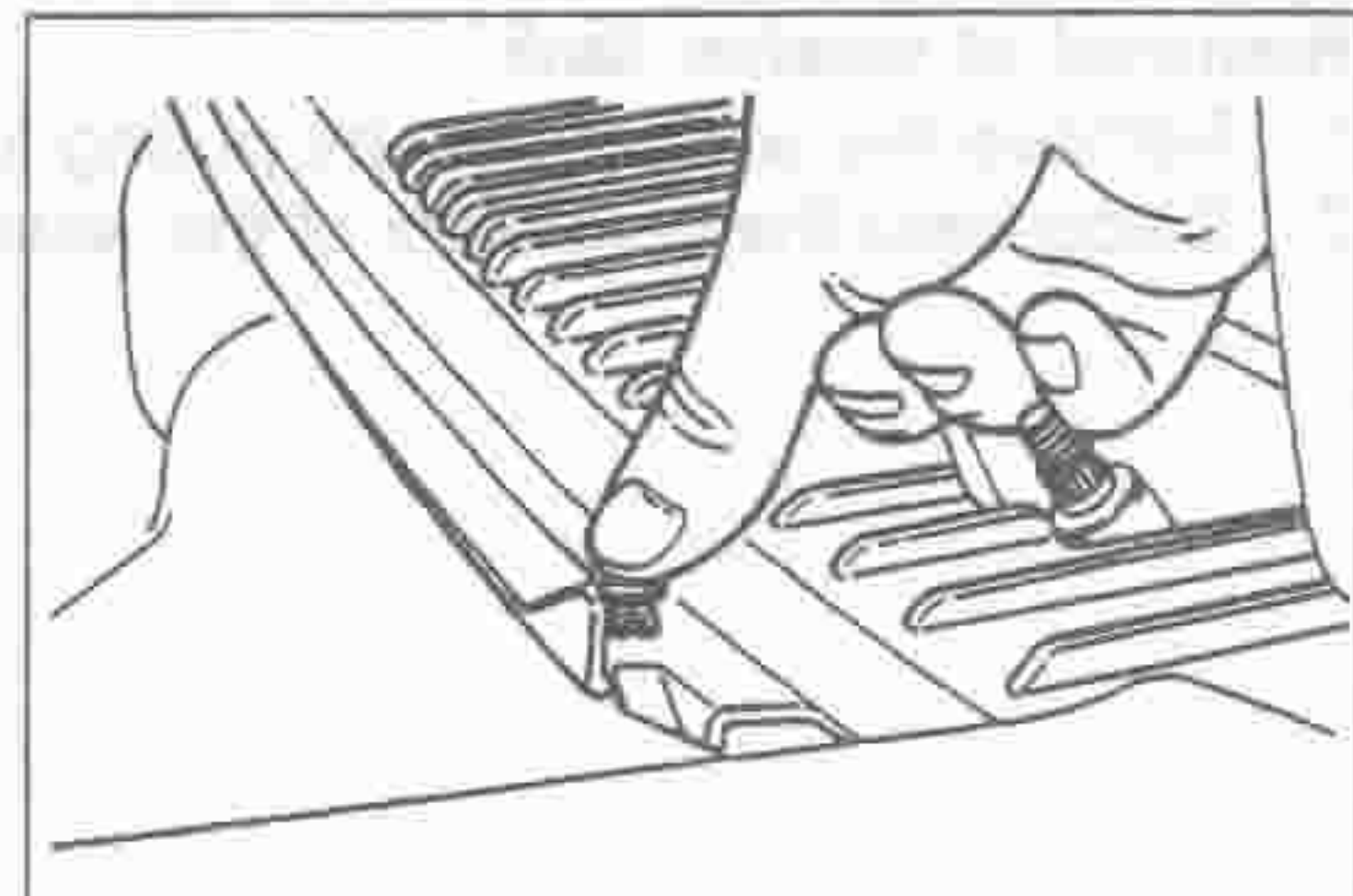
Installation

1. Install the wiper link assembly.
2. Installation of wiper motor
 - (1) Connect the wiper link to the wiper motor.
 - (2) Install the wiper motor to the dash panel with the bolts.
Tightening Torque: 7 - 10 N·m
 - (3) Connect the connector.



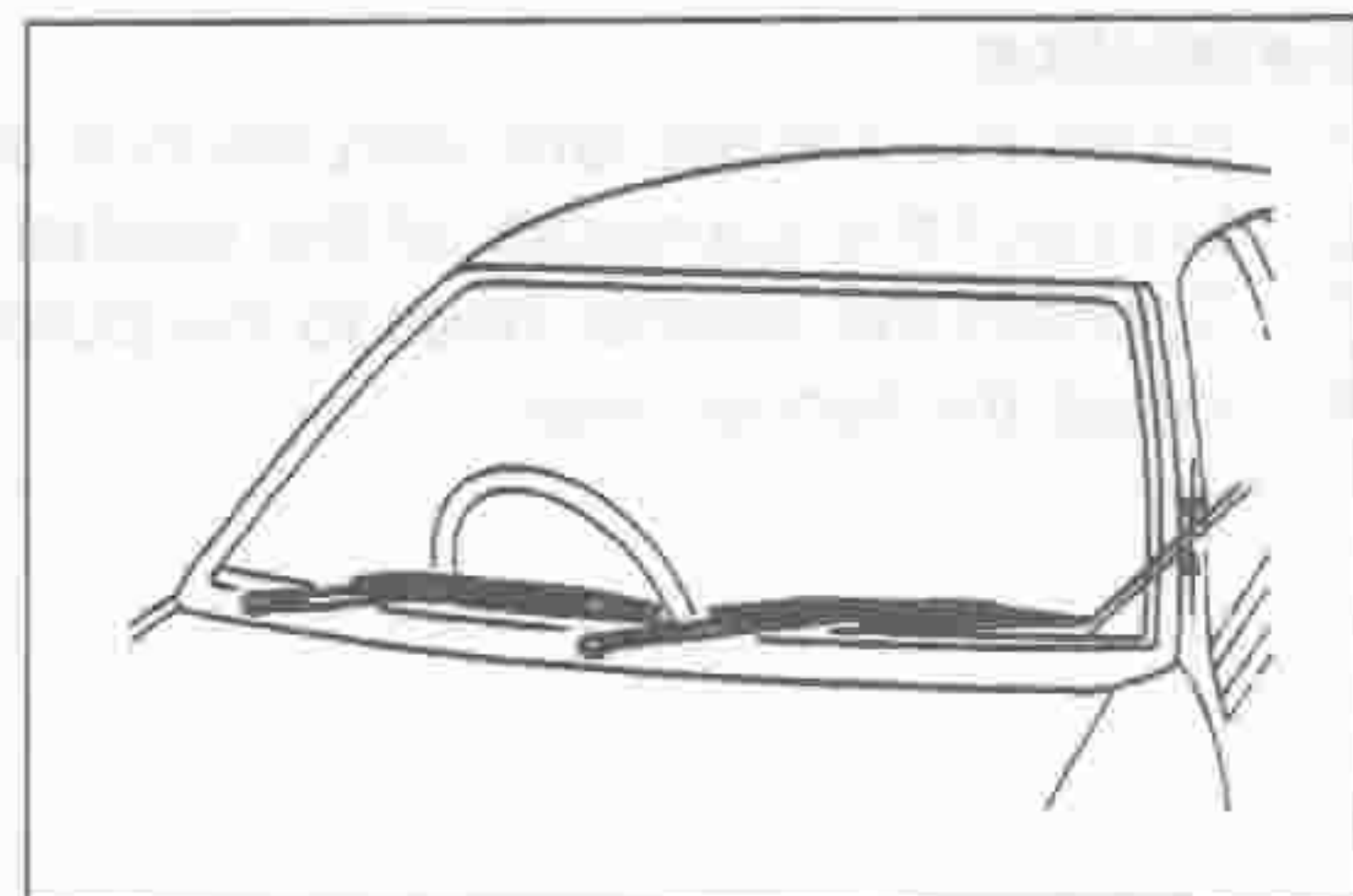
LBE00150-01124

3. Install the cowl top ventilator louver.



LBE00151-01132

4. Installation of wiper arm
 - (1) Operate the wiper motor and set it to the automatic stopping position.
 - (2) Set the wiper arm to the position, as specified values.
 - (3) Tighten the set screw.
Tightening Torque: 15 - 25 N·m

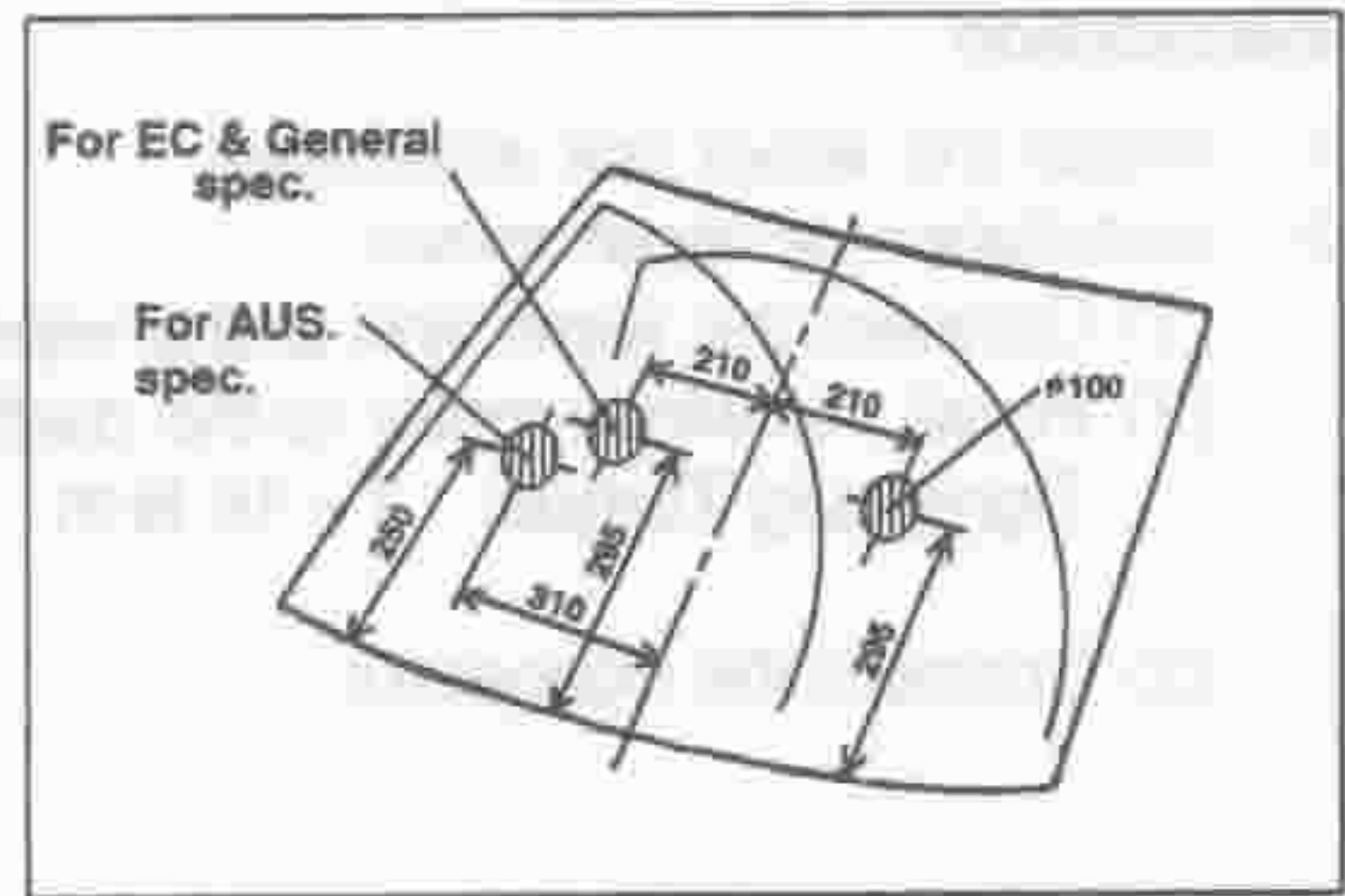


LBE00152-01133

FRONT WASHER NOZZLE & TANK

Adjustment of nozzle

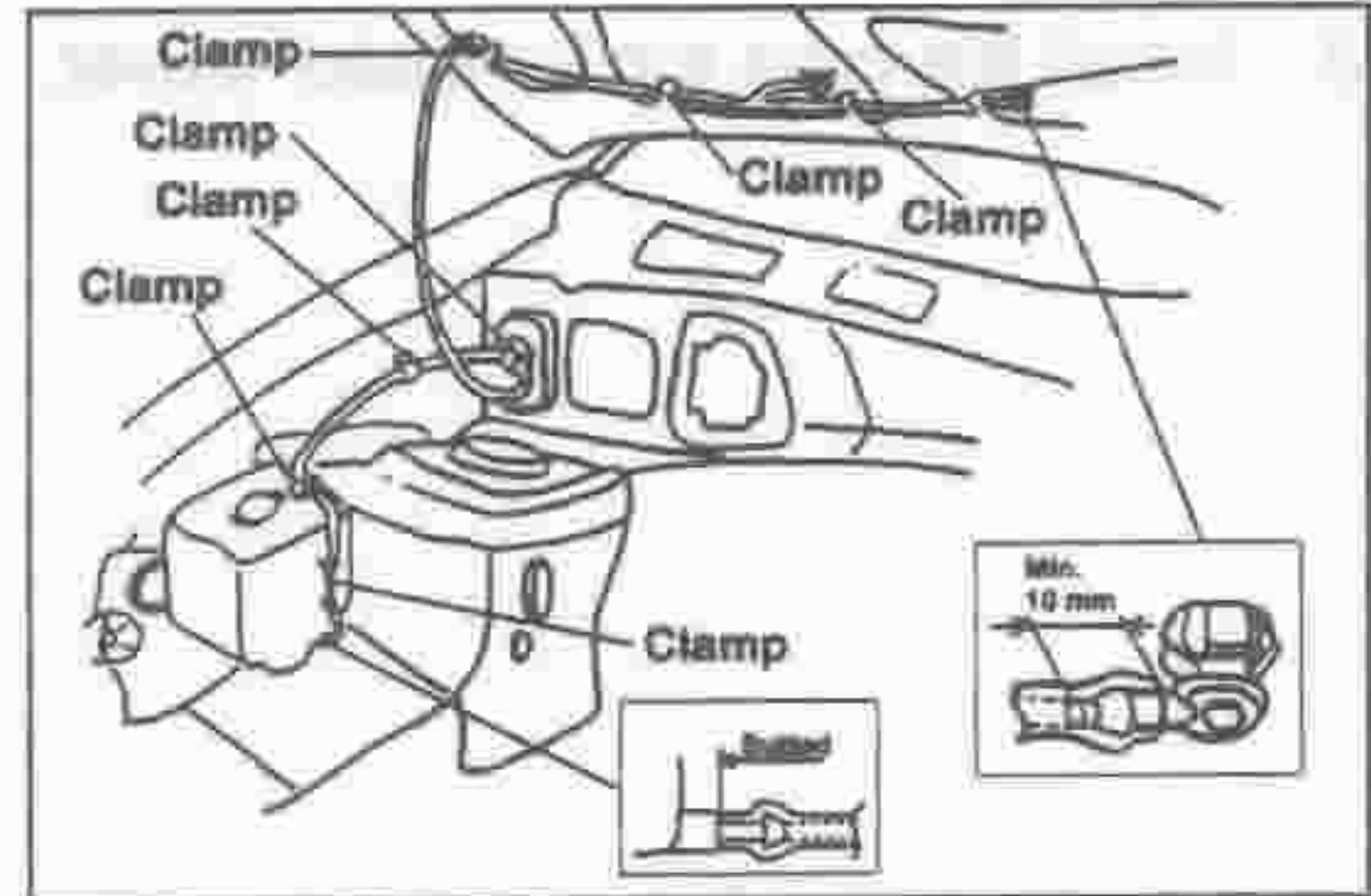
Adjust the nozzle direction in such a way that the squirting position of the window washer may conform to the specification indicated in the illustration.



LBE00153-01141

Removal of washer tank

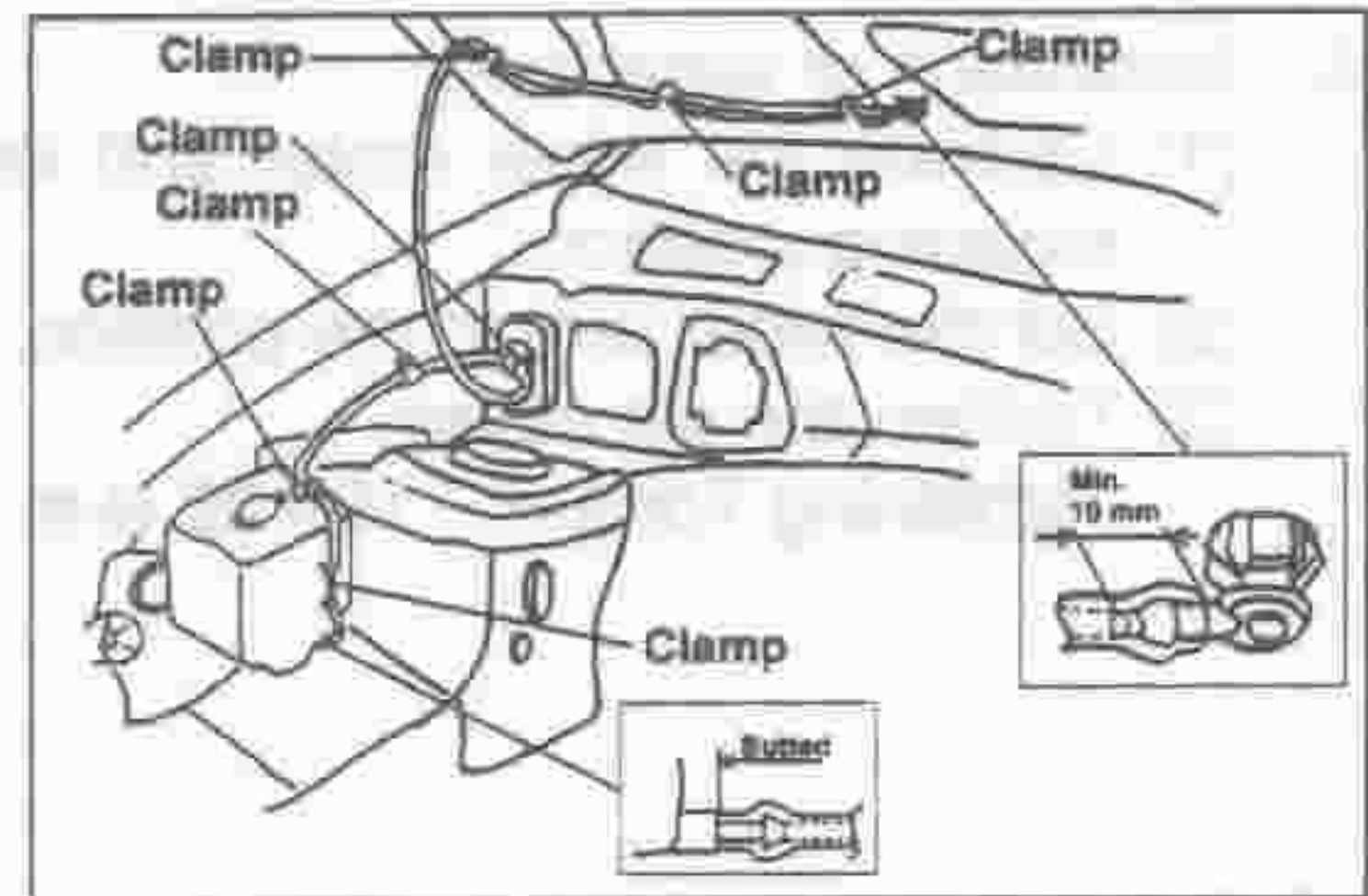
1. Remove the washer tank by pulling toward upper side.
2. Disconnect the connector of the washer pump.



LBE00154-01142

Installation

1. Install the washer tank with the bolt and nut.
2. Connect the connector of the washer pump.
3. Connect the washer hose to the pump.
4. Install the fender liner.

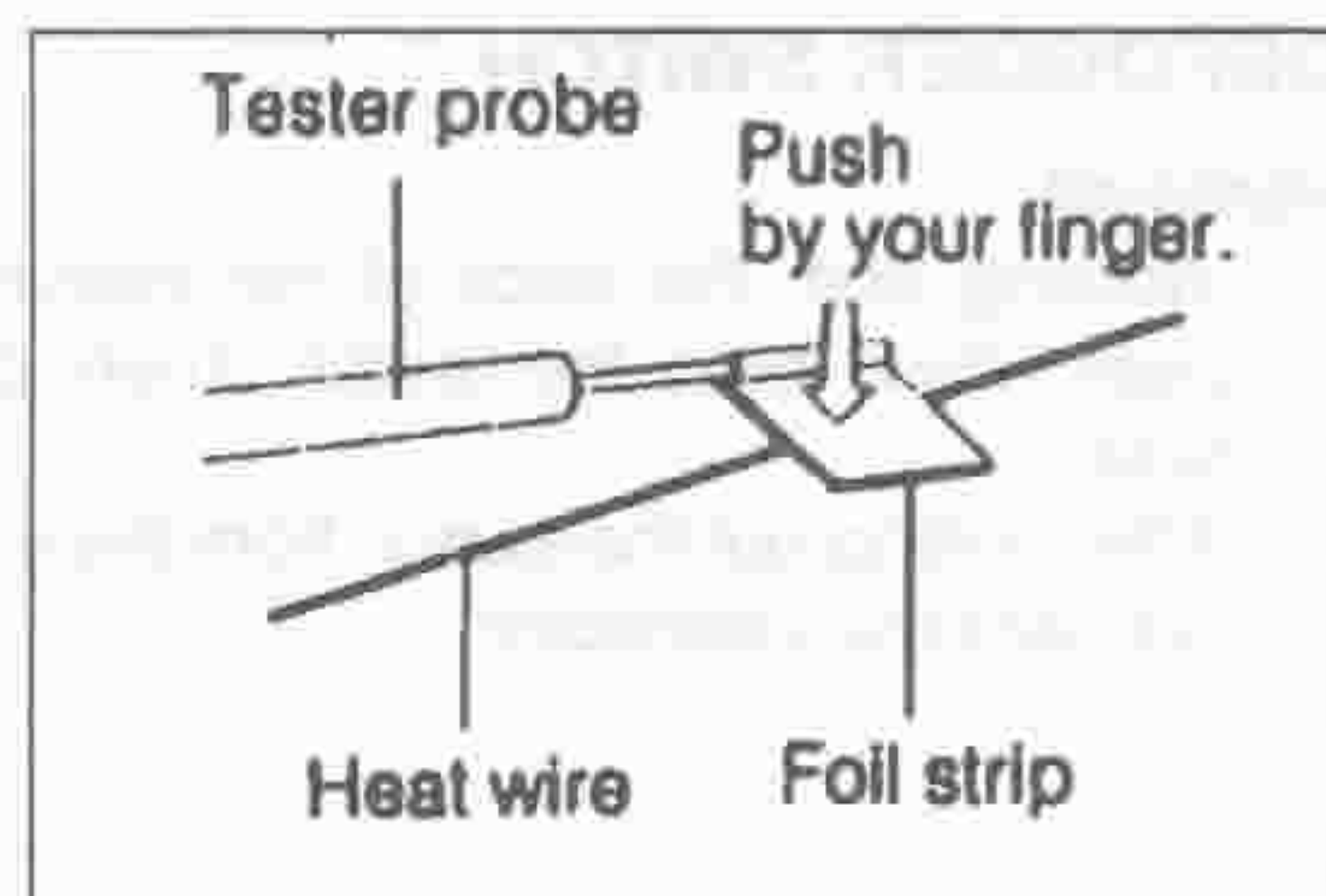


LBE00155-01143

DEFOGGER WIRE

NOTE:

- (1) When wiping the glass surface, use a soft, dry cloth. Move the cloth along the wire. Be careful not to damage the wire.
- (2) Never use washing agent or glass cleaner which contains abrasive compound.
- (3) Wrap the tip end of the tester probe with foil strip so that the tester probe causes no damage on the heat wire during the voltage measurement.
- (4) Check the voltage by pushing the foil strip against the heat wire with your finger, as indicated in the figure.



LBE00156-01151

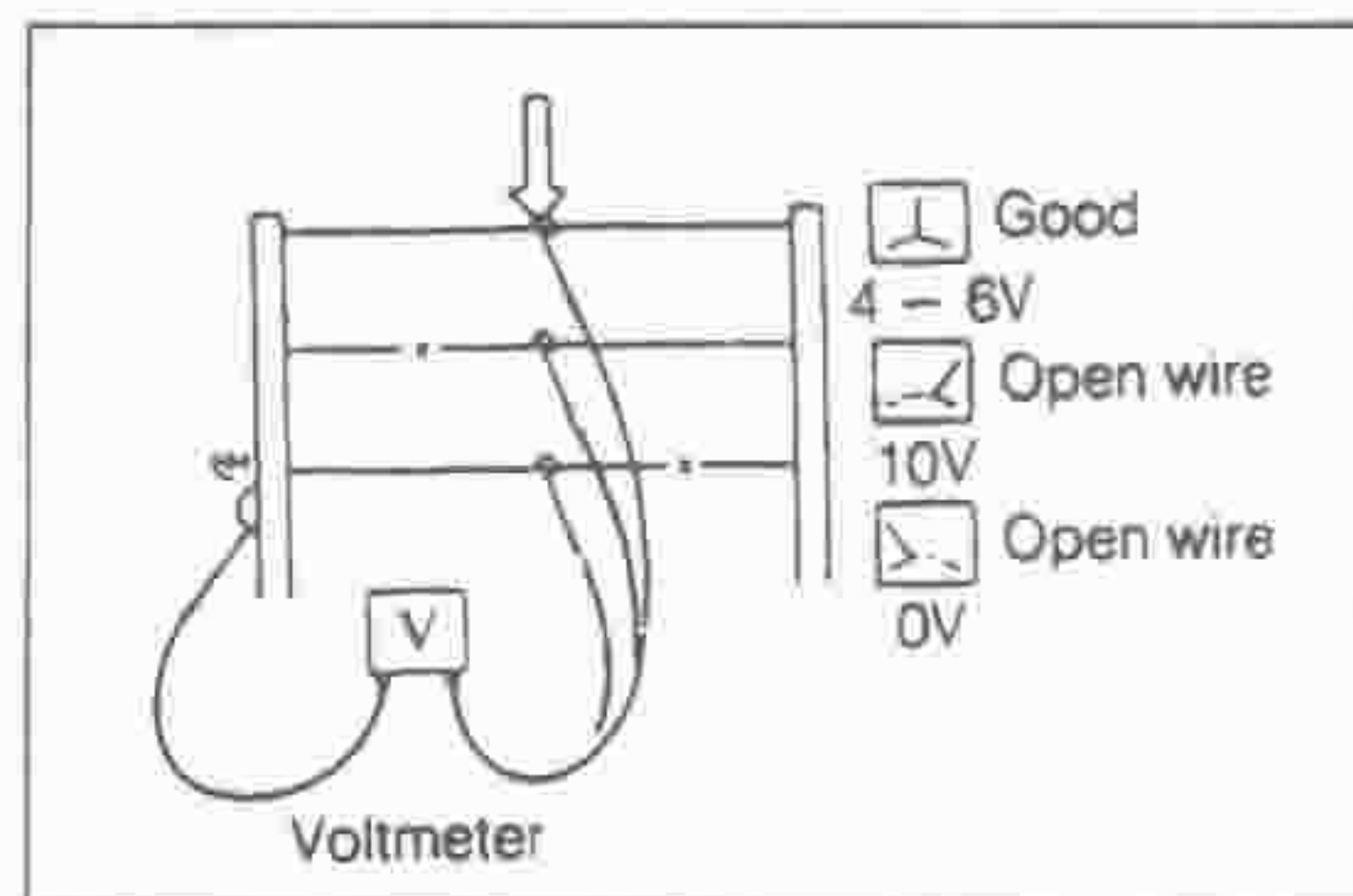
Open wire check

- (1) Turn ON the ignition key switch.
- (2) Turn ON the defogger switch so as to energize defogger wire.
- (3) Check the voltage at the center section of each heat wire.

Voltage	Judgment criteria
Approx. 5 V	Good (No open wire)
Approx. 10 V or 0 V	Open wire

REFERENCE:

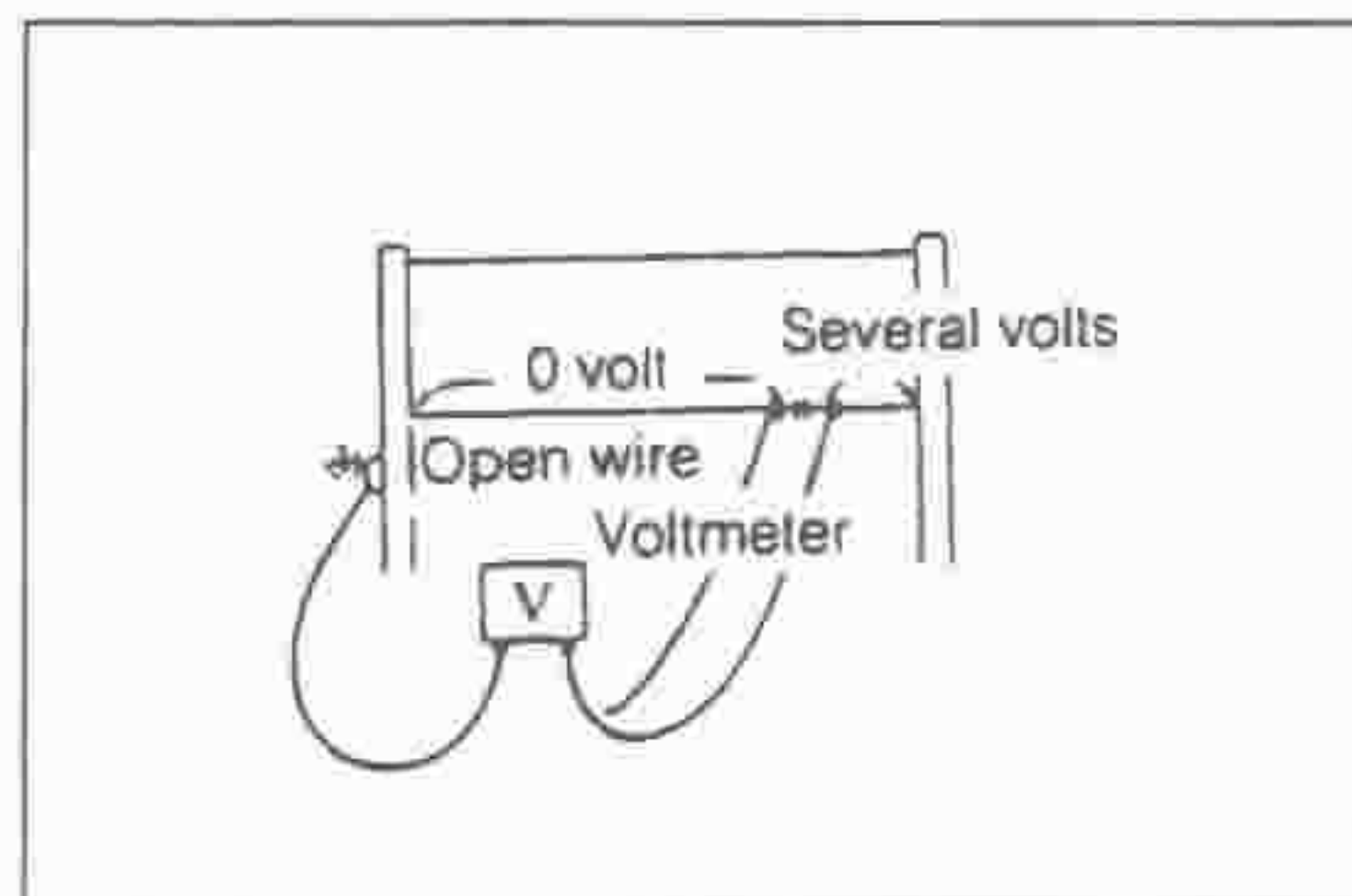
- If the voltage is 10 V, it means that open wire exists between the center of the wire and the end of the positive $\oplus$ side. If the voltage is 0 V, it means that open wire exists between the center of the wire and the end of the earth side.



LBE00157-00000

Locating point of open wire

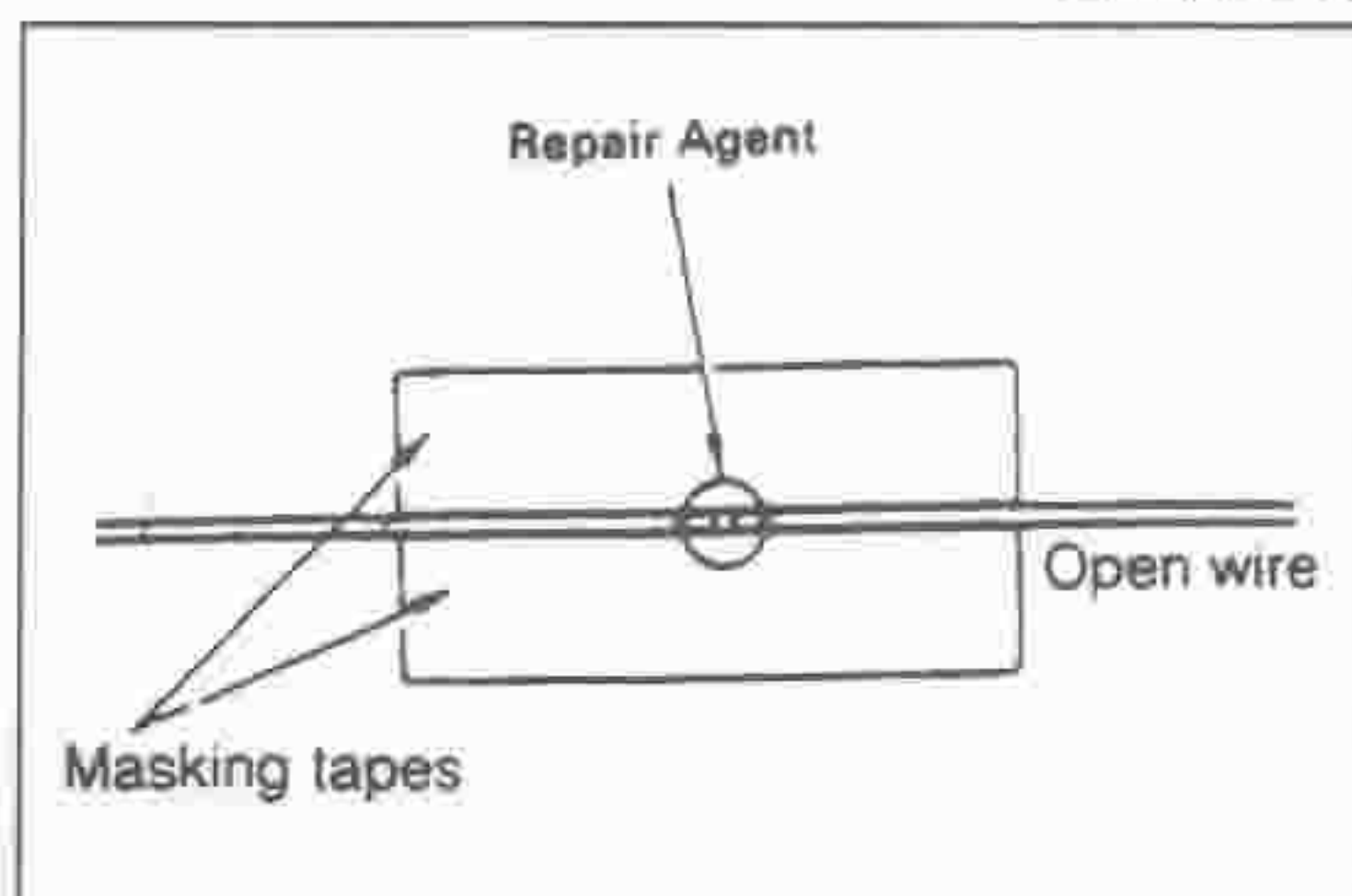
- (1) Connect the positive $\oplus$ terminal of the voltmeter to the positive $\oplus$ side of the defogger wire.
- (2) Slide the voltmeter's negative $\ominus$ terminal wrapped with foil strip on the defogger wire from its positive $\oplus$ side to its negative $\ominus$ side.
- (3) The voltmeter reading changes from 0 V to several volts at the point where open wire exists.



LBE00158-01152

Repairing point of open wire

- (1) Clean the point of open wire with white gasoline.
- (2) Affix masking tapes to both upper and lower portions of the point to be repaired.
- (3) Stir repair agent (Du Pont Paste No. 4817) thoroughly. Apply a small amount of the repair agent to the repairing point, using a fine brush.
- (4) Two to three minutes later, peel off the masking tapes.
- (5) Do not energize the defogger wire within 24 hours after the repair.



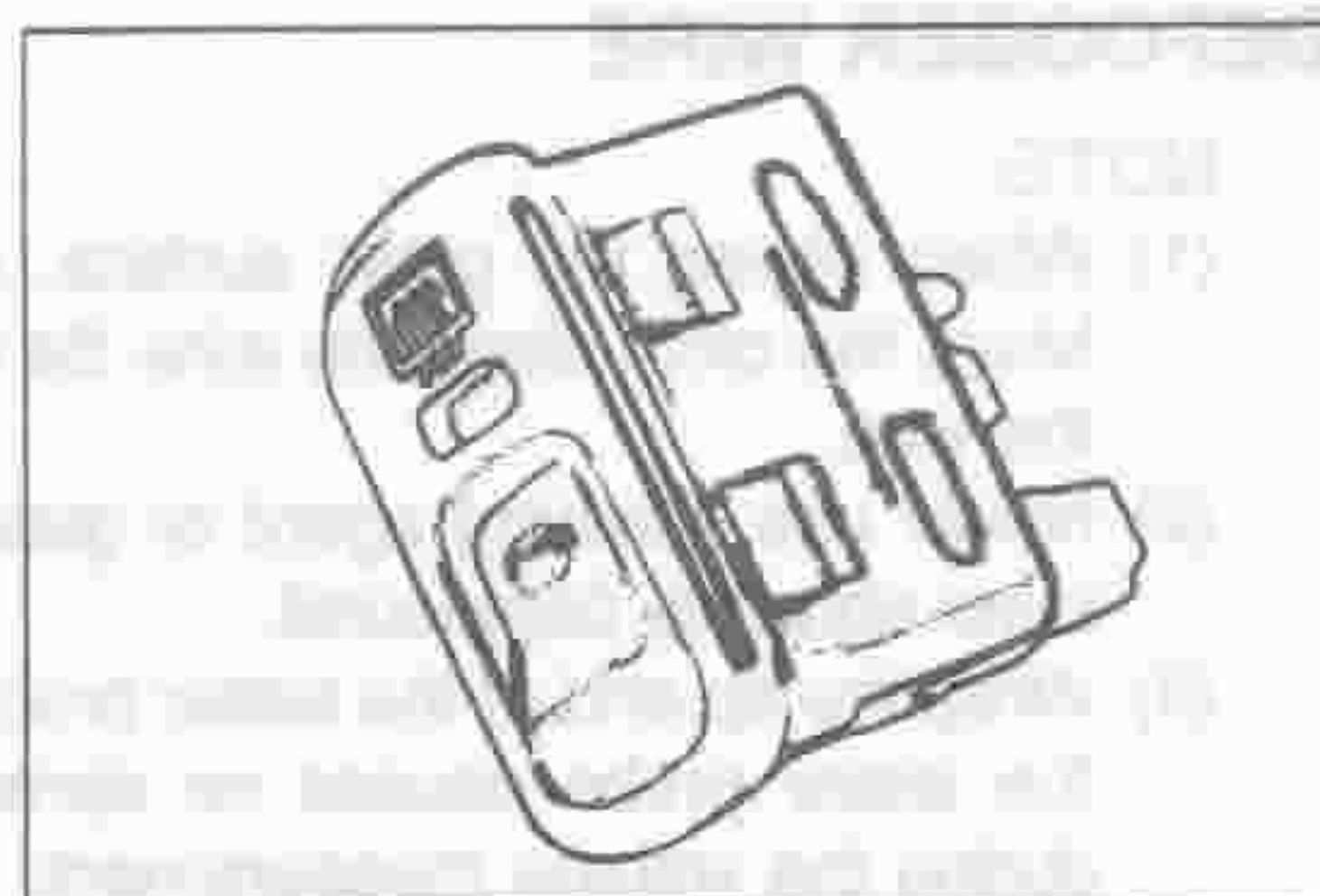
LBE00159-01154

LBE00160-01155

DEFOGGER SWITCH

Removal

1. Working from the back of the instrument panel, push the pawl which locks the switch. Then, pull them toward your side.
2. After pulling out the switch from the instrument panel, disconnect the connector.

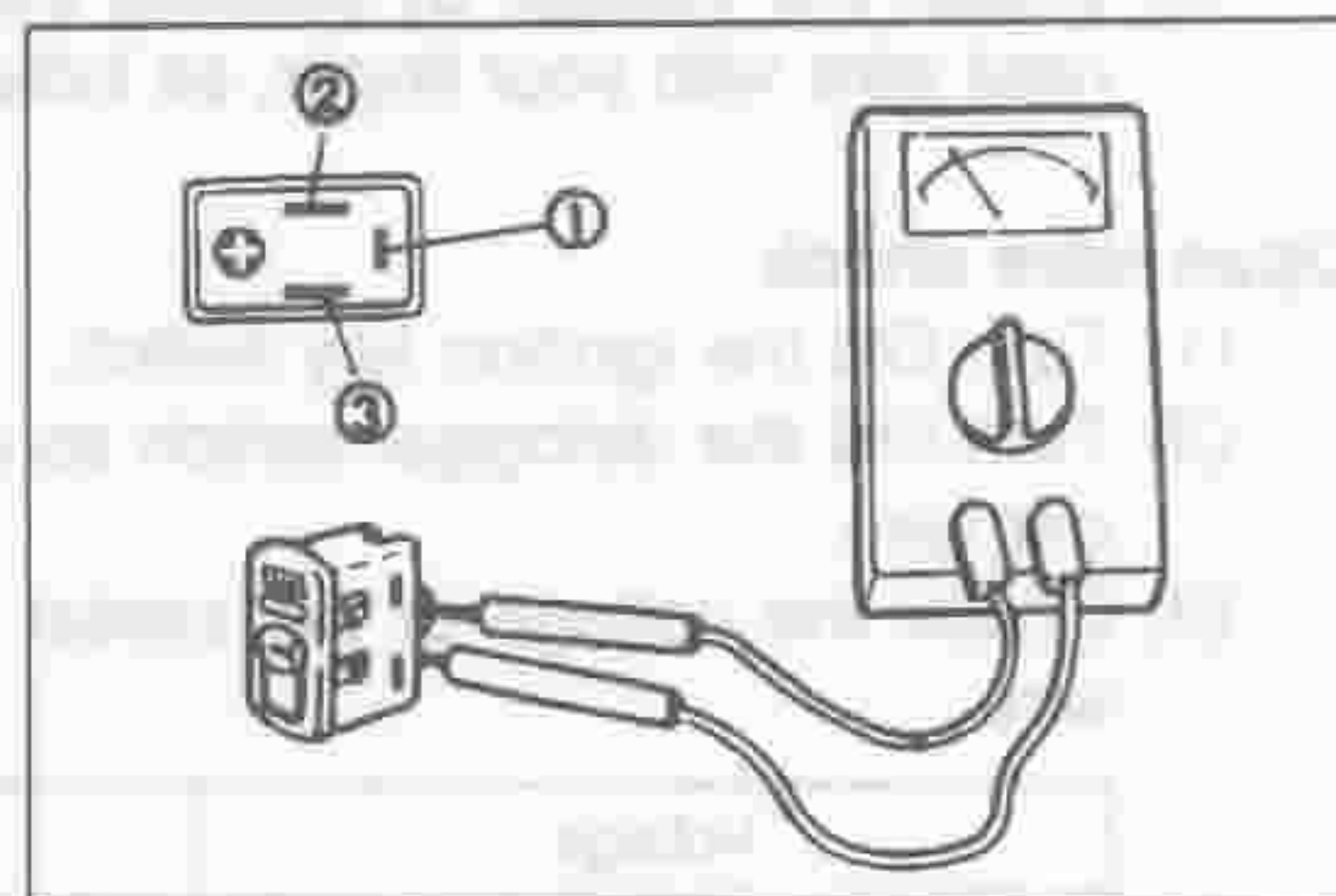


LBE00161-01161

Inspection

Ensure that continuity exists between the respective terminals as indicated in the table.
If not, replace the switch.

	1	2	3
OFF		○	○
ON	○	○	○

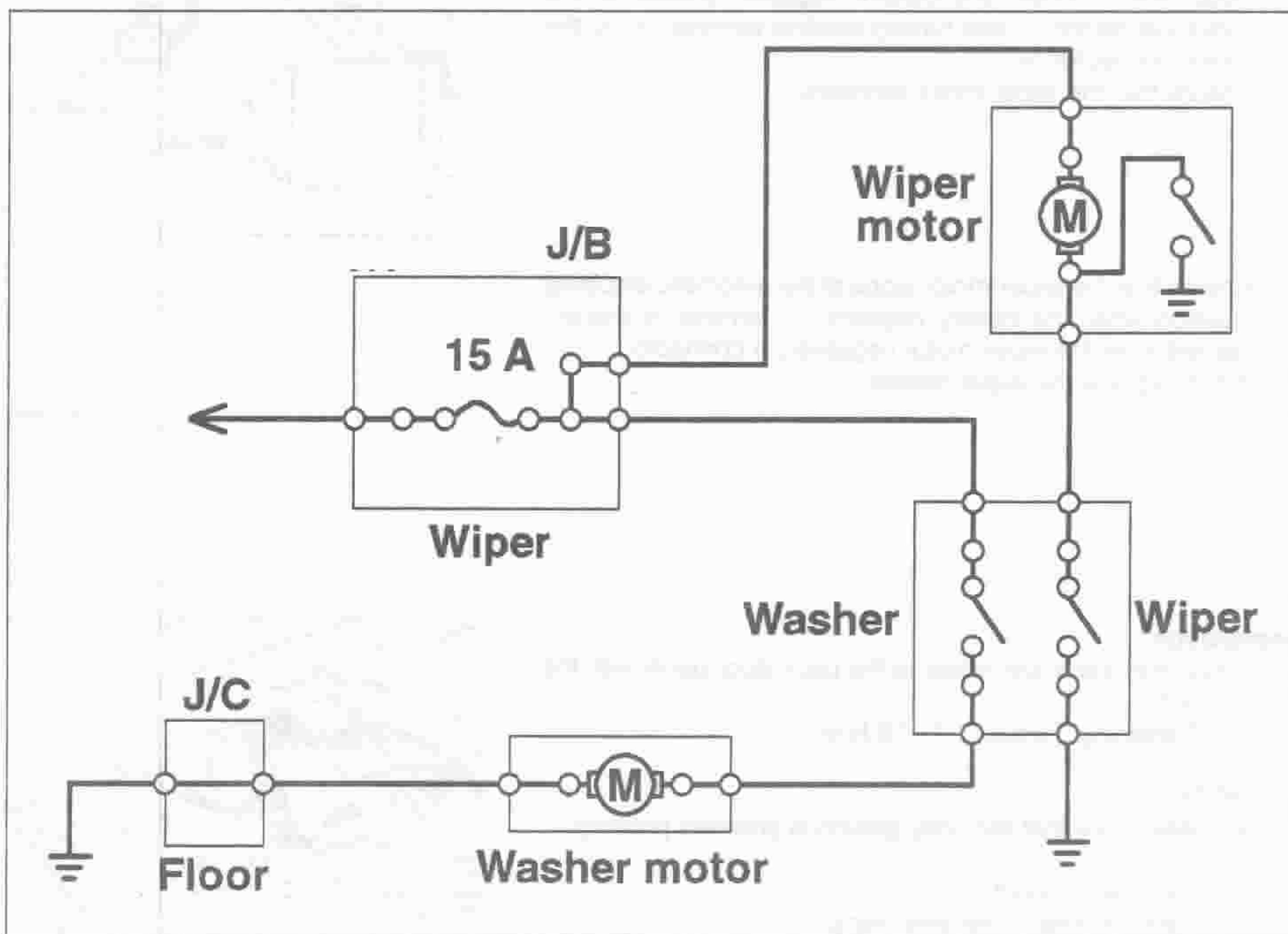


LBE00162-01162



REAR WIPER & BLADES

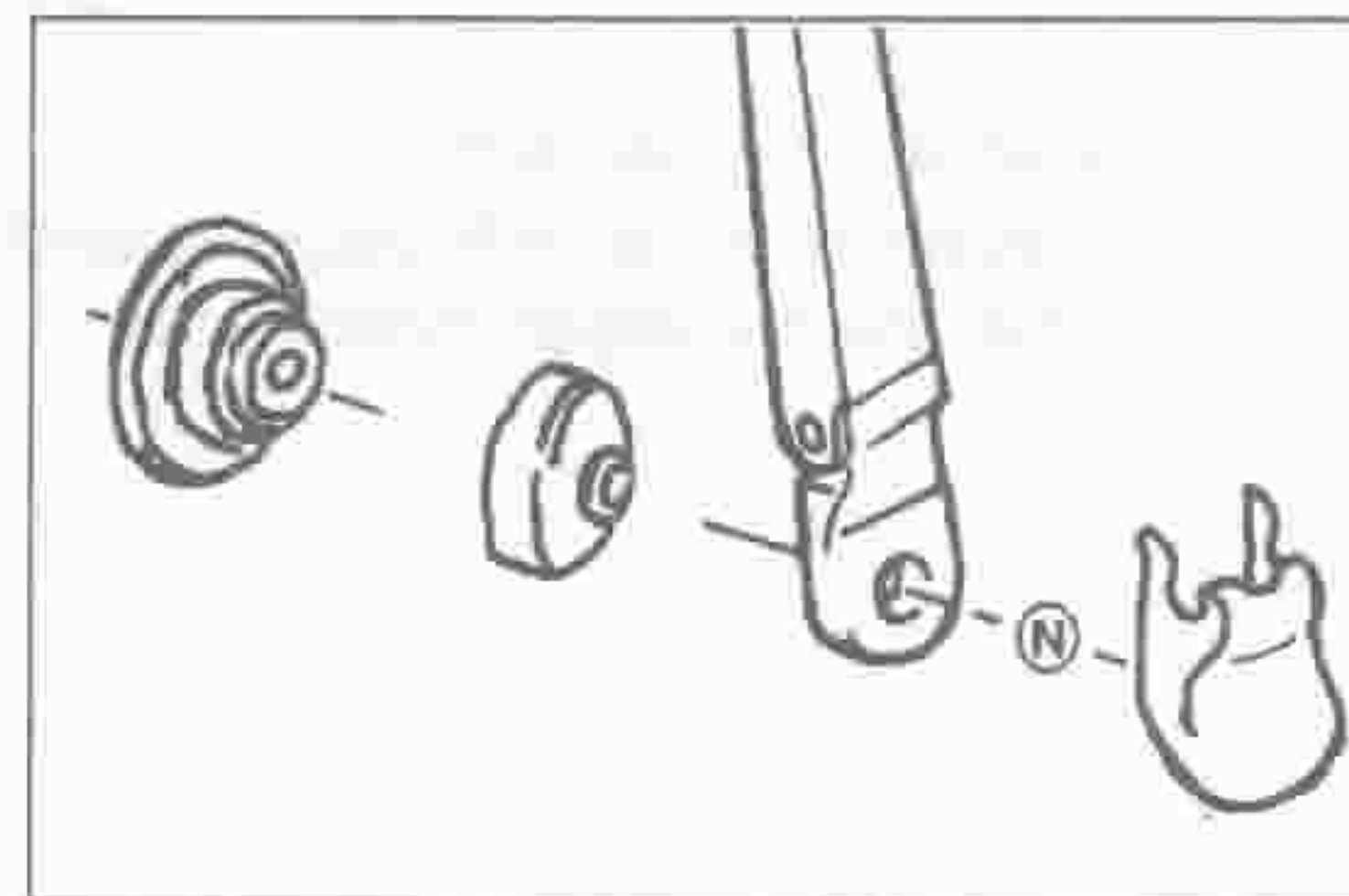
CIRCUIT DIAGRAM



LBE00163-01170

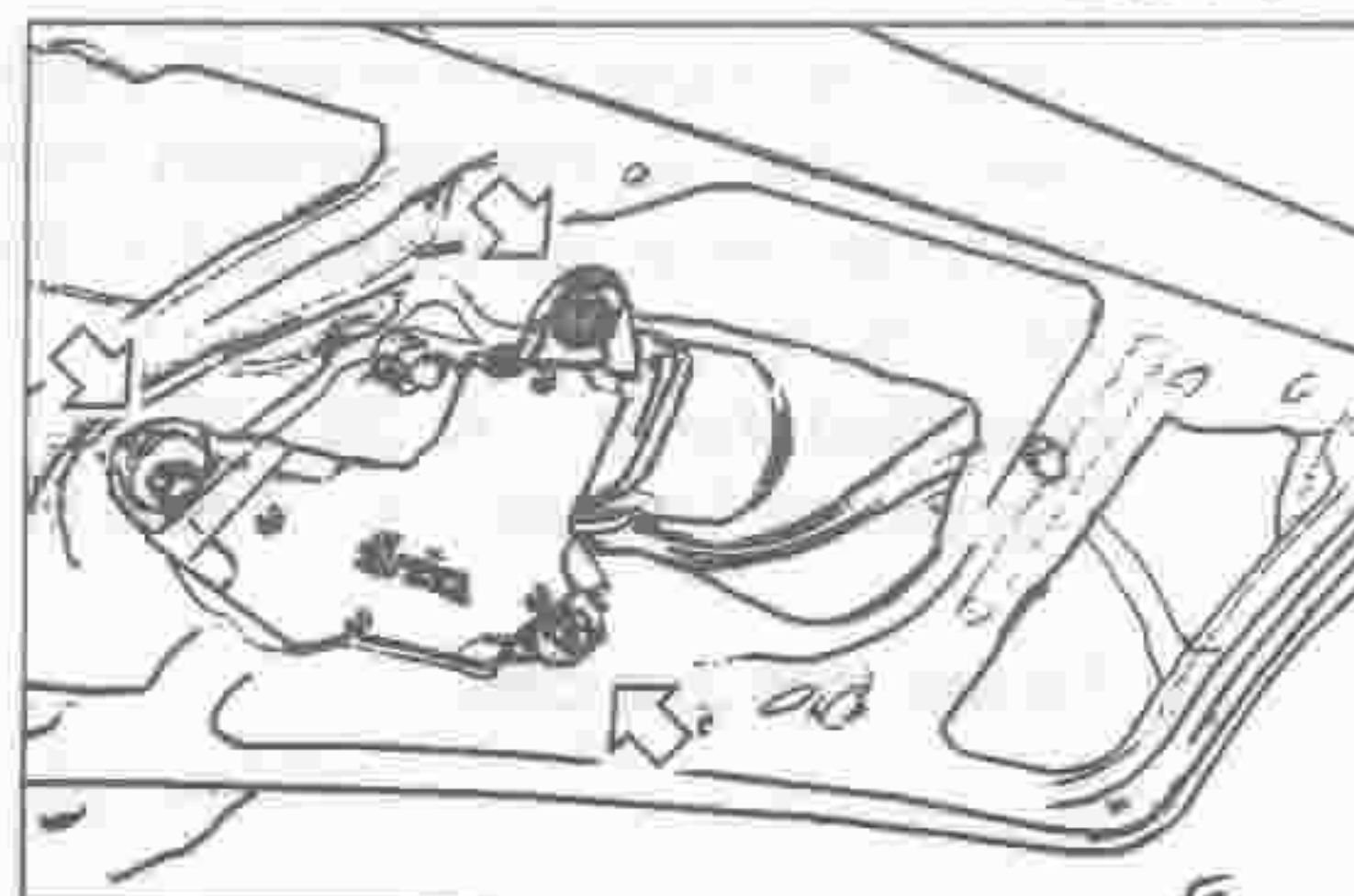
Removal

1. Remove the lock nut cover and the wiper arm by removing the nut.
2. Remove the wiper link packing and dust cover.



LBE00164-01171

3. Remove the back door service hole cover.
4. Disconnect the wiper motor connector and detach the wire from the clamp.
5. Remove the rear wiper motor assembly by removing the attaching bolts.

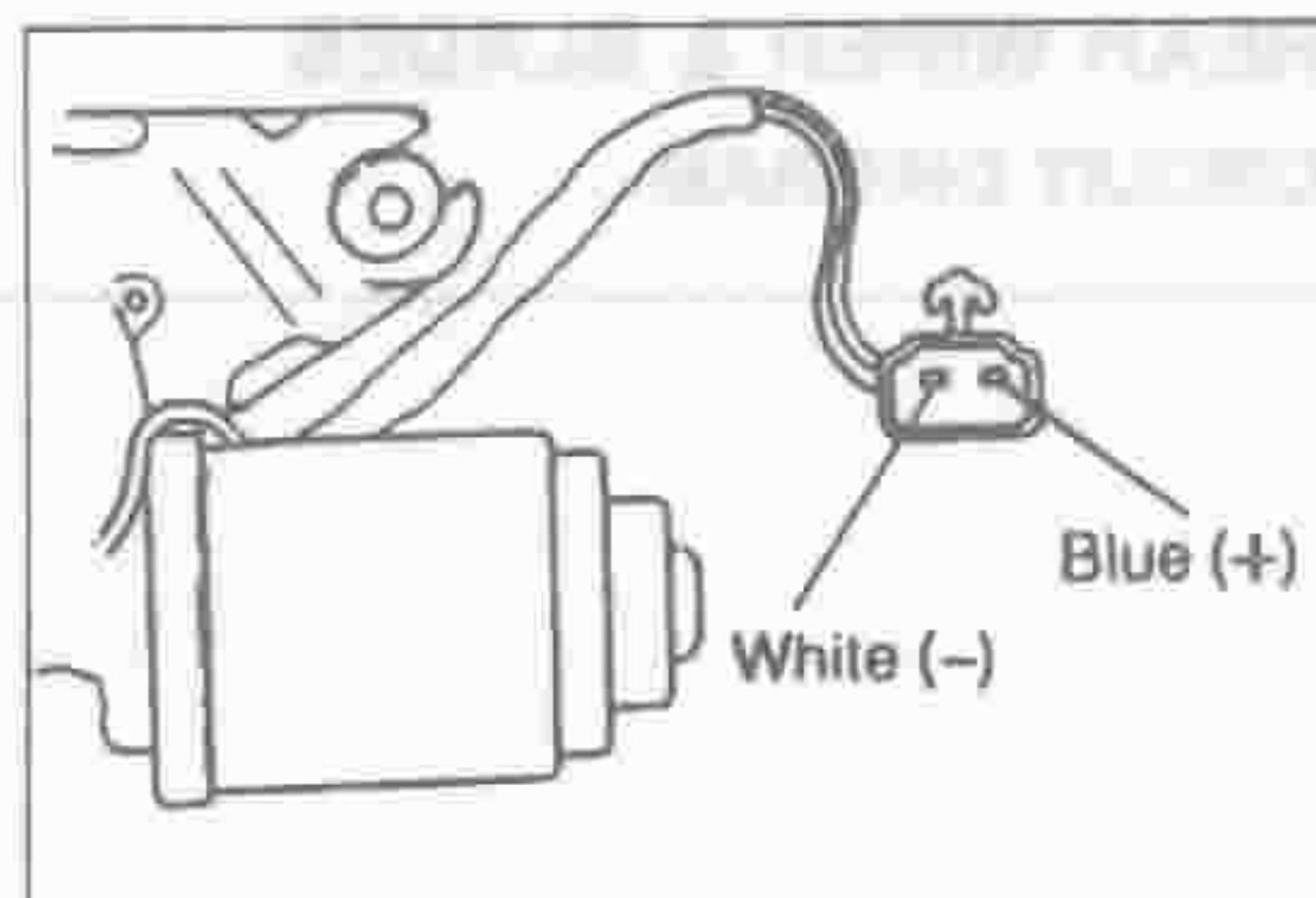


LBE00165-01172

Unit inspection

1. Connect the battery negative (-) terminal to the wiper motor body. Also connect the battery negative terminal to the motor connector (-) and battery positive terminal (+) to the motor connector (+).

Ensure that the wiper motor functions.



LBE00166-01174

2. Ensure that the wiper motor stops at the automatic stopping position when the battery negative (-) terminal is disconnected from the wiper motor negative (-) connector. If not, replace the wiper motor.

LBE00167-00000

Installation

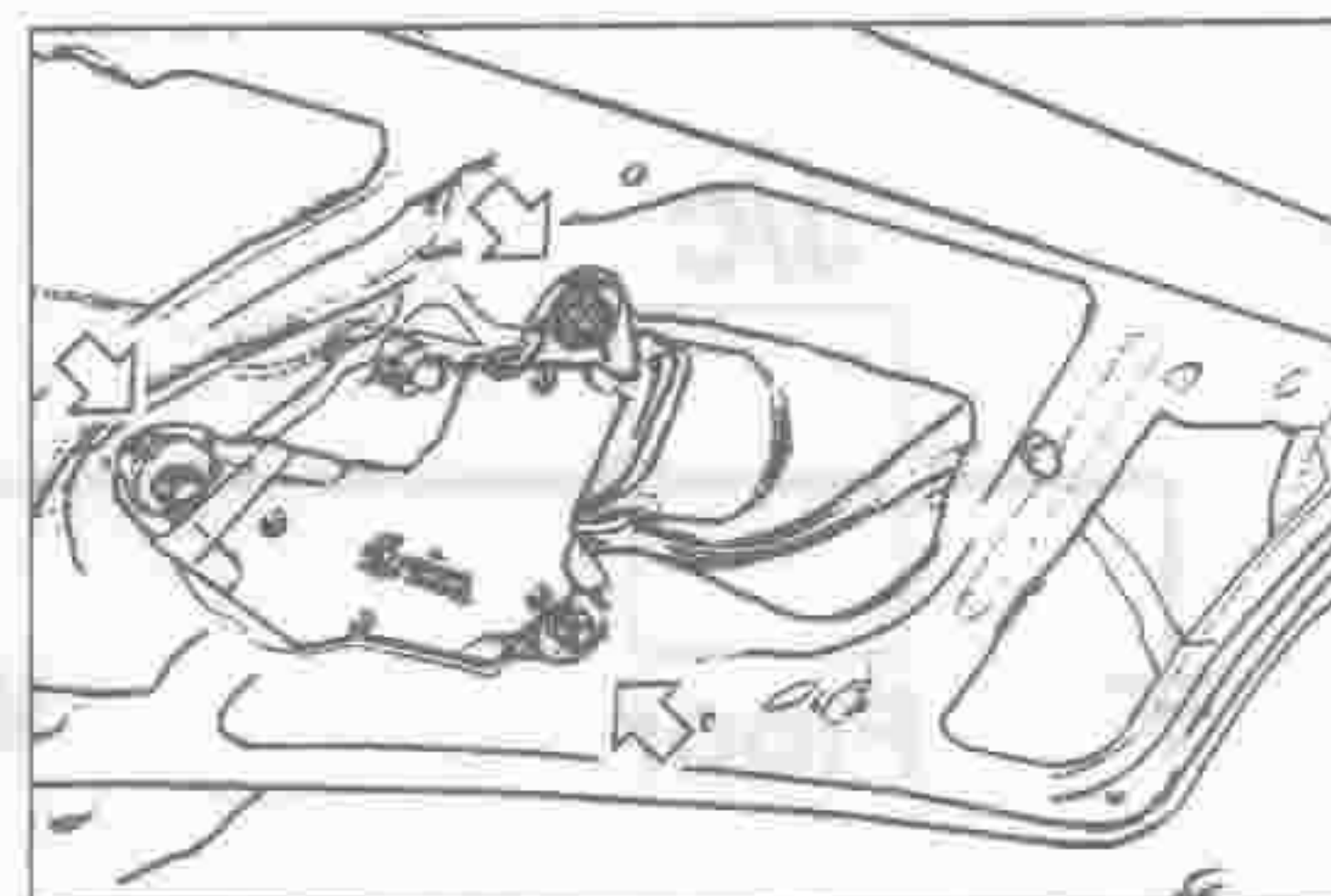
1. Install the rear wiper motor to the back door panel with the set bolt.

Tightening Torque: 7 - 10 N·m

NOTE:

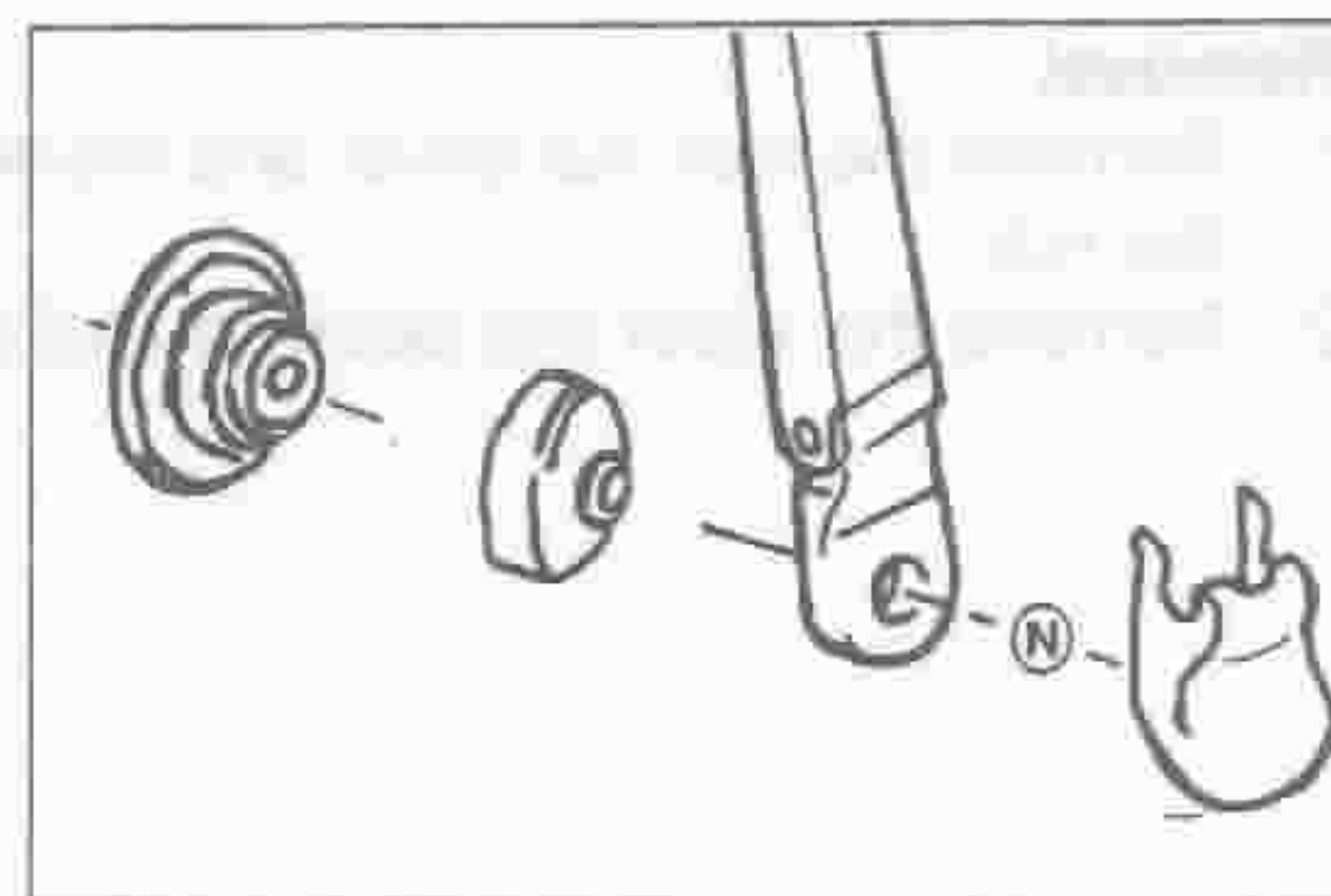
- Make sure that the body ground is provided properly.

2. Connect the connector.
3. Connect the wire to the wire clamp.
4. Install the back door service hole cover.



LBE00168-01172

5. Installation of wiper arm
 - (1) Install the wiper link packing and dust cover.
 - (2) Operate the wiper motor once.



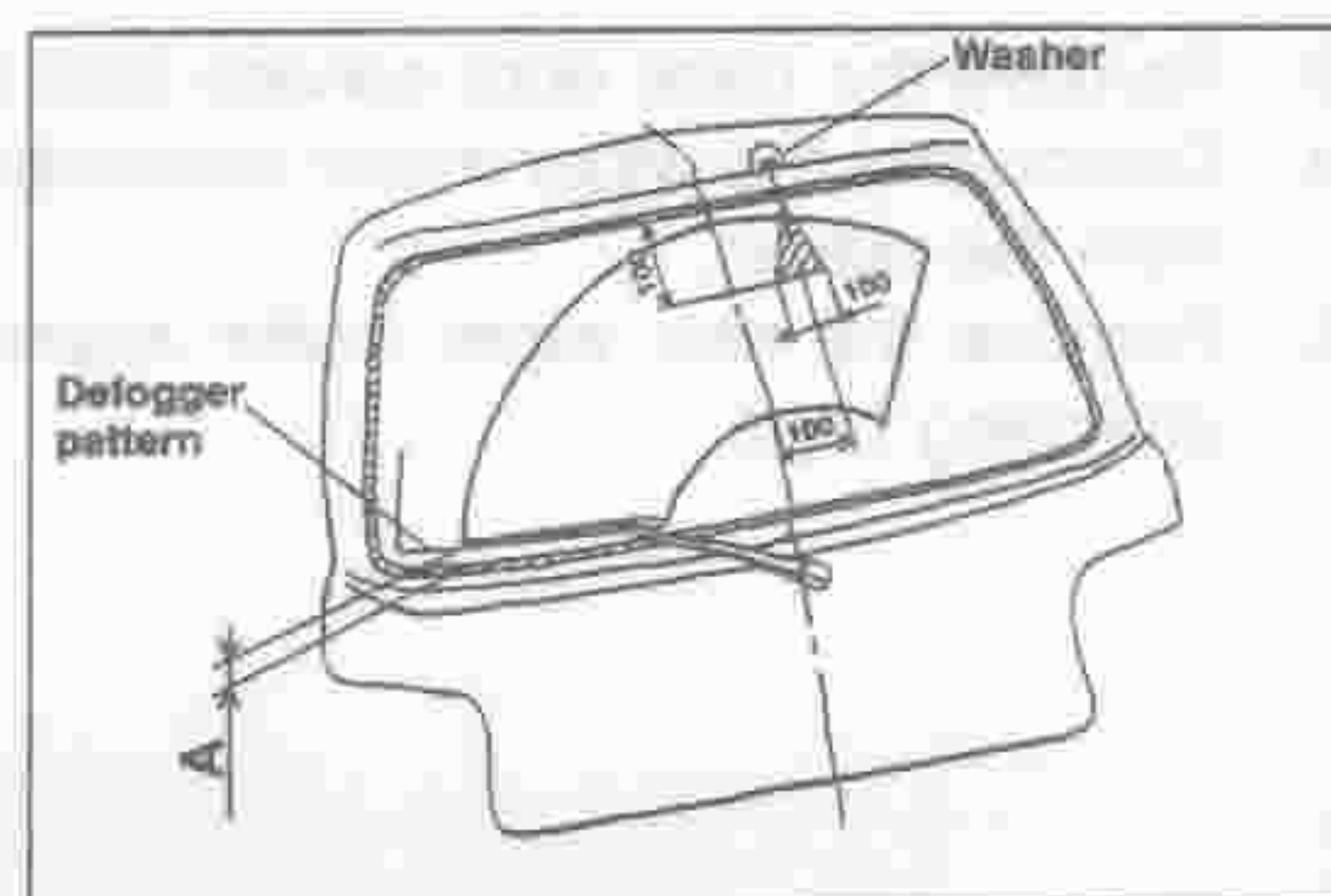
LBE00169-01171

- (3) Install the wiper arm in such a way that the wiper blade may come at the specified marking position on the defogger wire, as indicated in the right figure. Tighten the lock nut.

Specified Value: A; 35 - 75

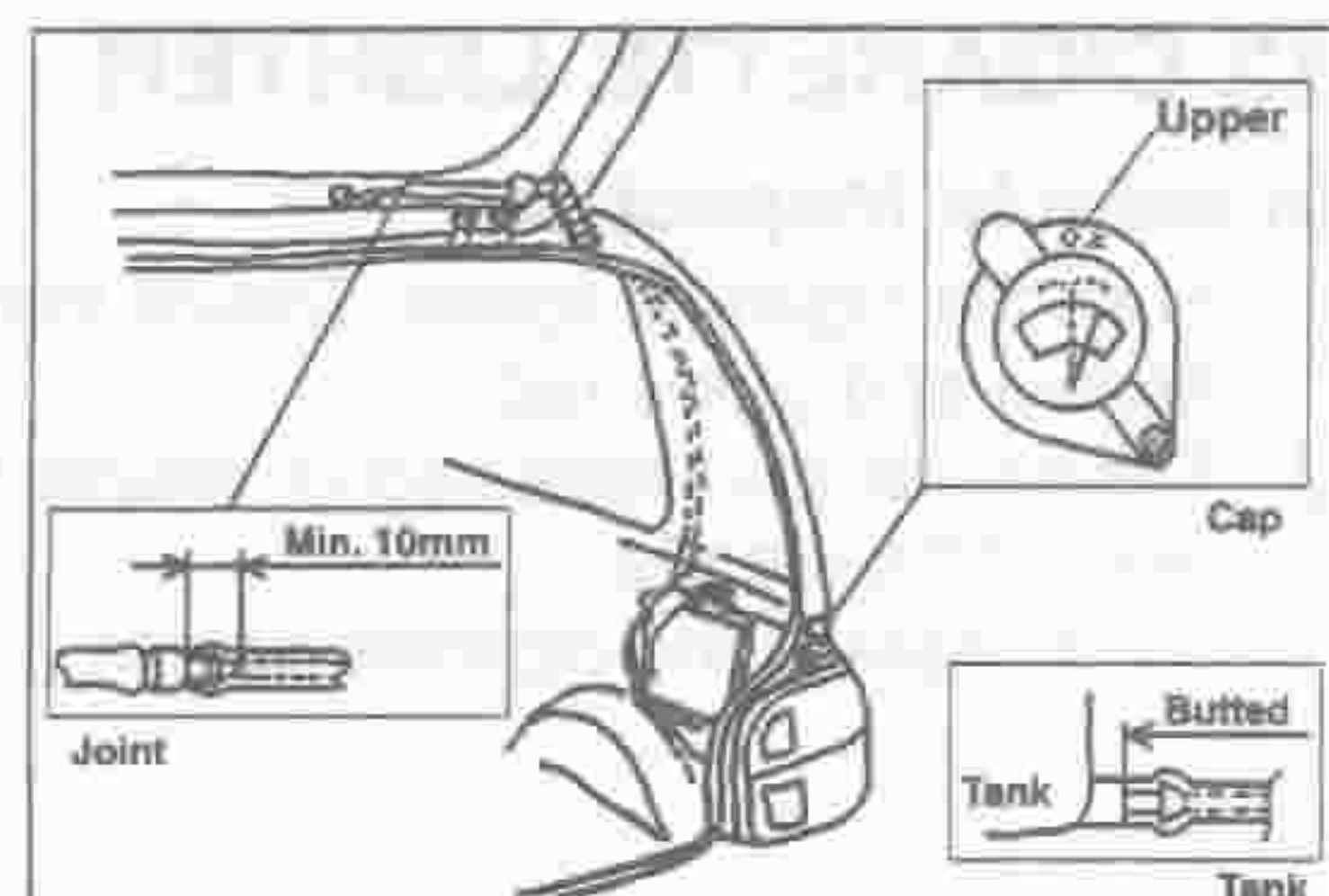
Tightening Torque: 4 - 7 N·m

- (4) Fit the lock nut cap.



LBE00170-01178

Rear washer

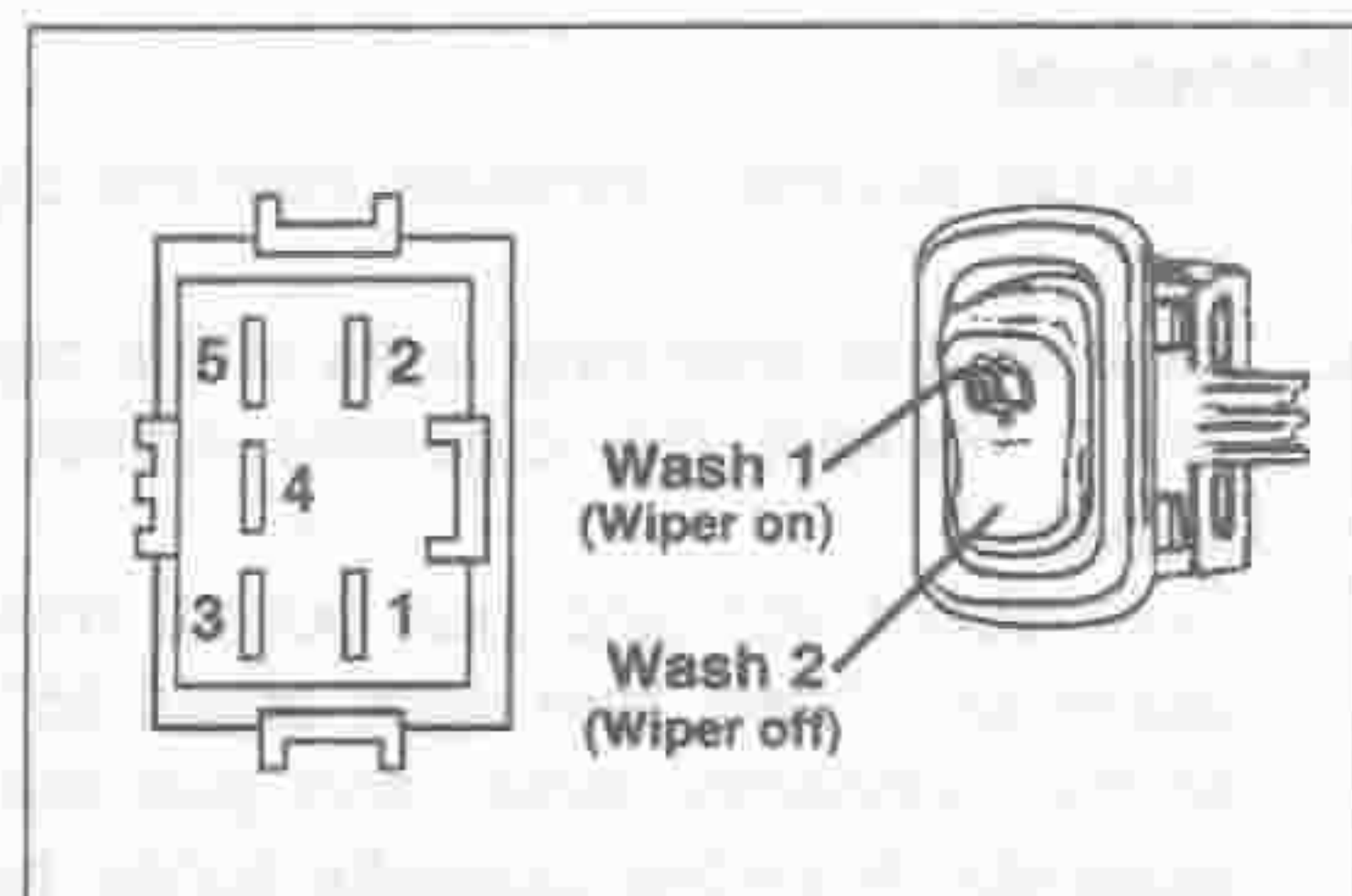


LBE00171-01179

REAR WIPER & WASHER SWITCH

REMOVAL

1. Working from the back of the instrument panel, push the pawl which locks the switch. Then, pull them toward your side.
2. Disconnect the connector.



LBE00172-01181

Inspection

Ensure that continuity exists between the respective terminals, as shown the table.

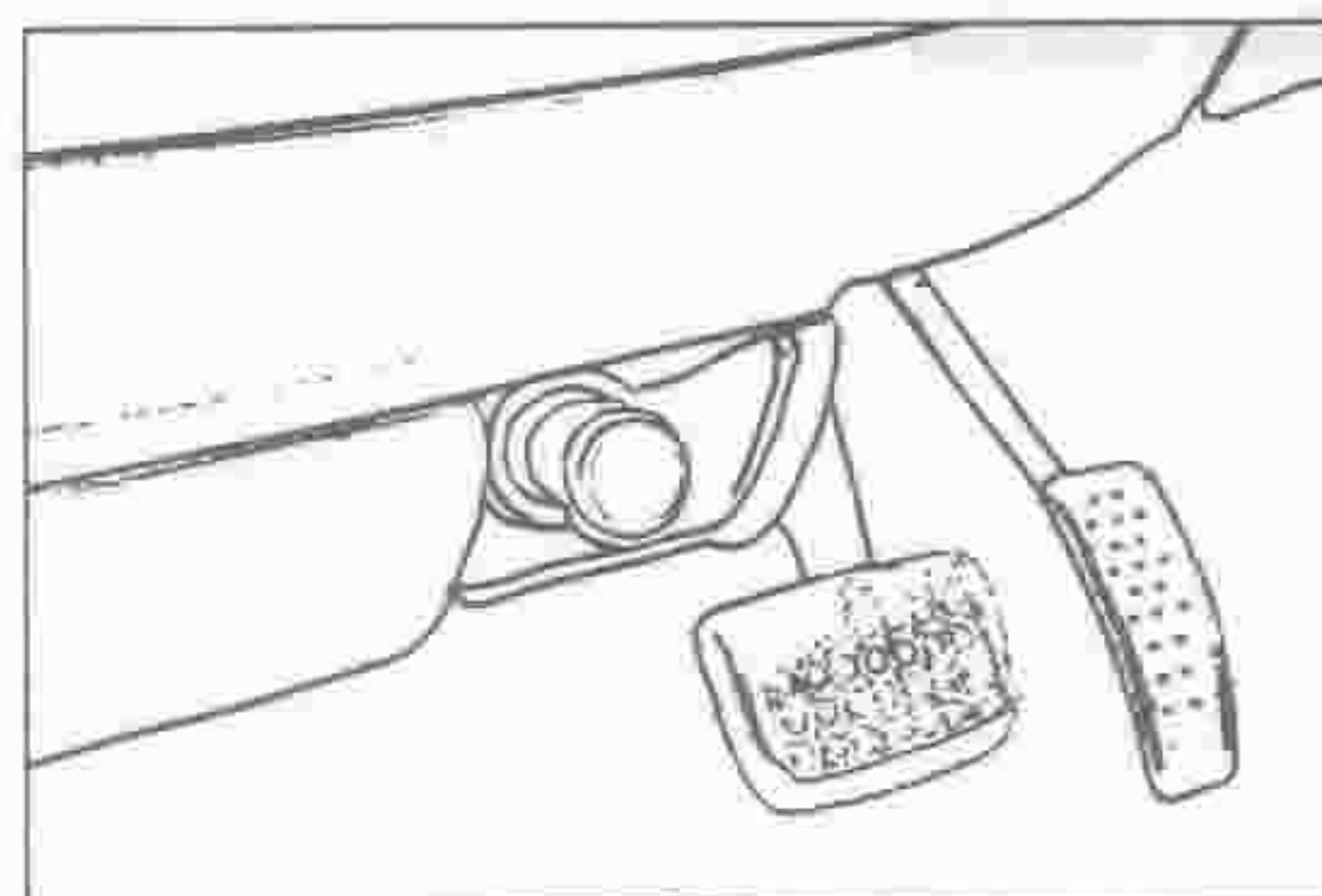
	1	2	3	4	5
Wiper OFF				○ — ○	
Wiper ON			○ — ○		
Wash 1	○ — ○		○ — ○		
Wash 2	○ — ○			○ — ○	

LBE00173-00000

12 CIGARETTE LIGHTER

In-vehicle inspection

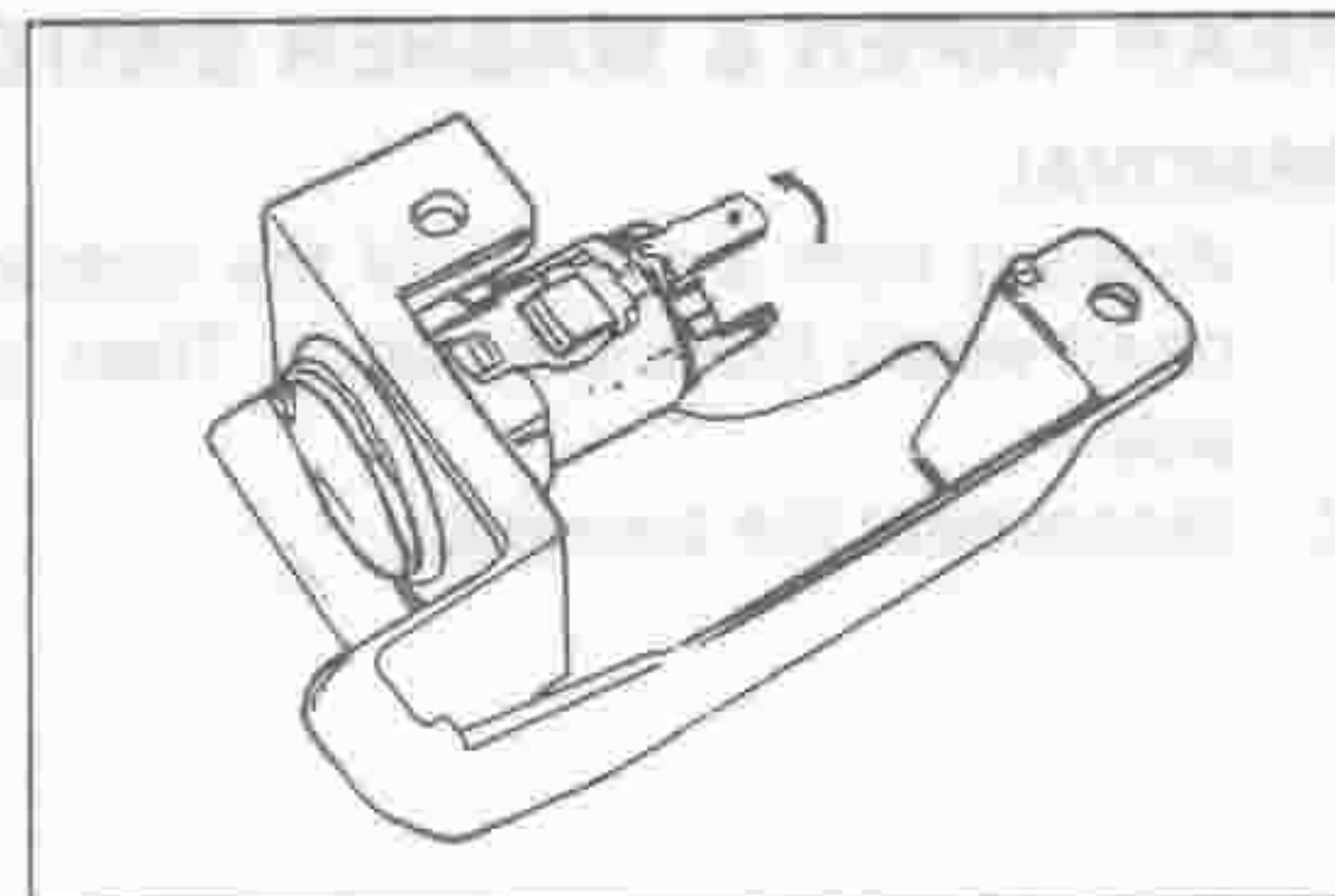
1. Push the cigarette lighter. Ensure that the heater section is heated and glows red.
2. Ensure that the heater section returns to the original position within 18 seconds.
If not, replace the cigarette lighter.



LBE00174-01201

Removal

1. Disconnect the connector from the cigarette lighter assembly.
2. Remove the attaching bolts of the cigarette lighter cover. Then, remove the cigarette lighter from the instrument panel.
3. Turn about 45° and pull out 10 mm the cigarette lighter assembly. Then, turn back about 45° (align the embossed at the connector side) and pull out the cigarette lighter assembly from the cigarette lighter bezel.



LBE00175-01212

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

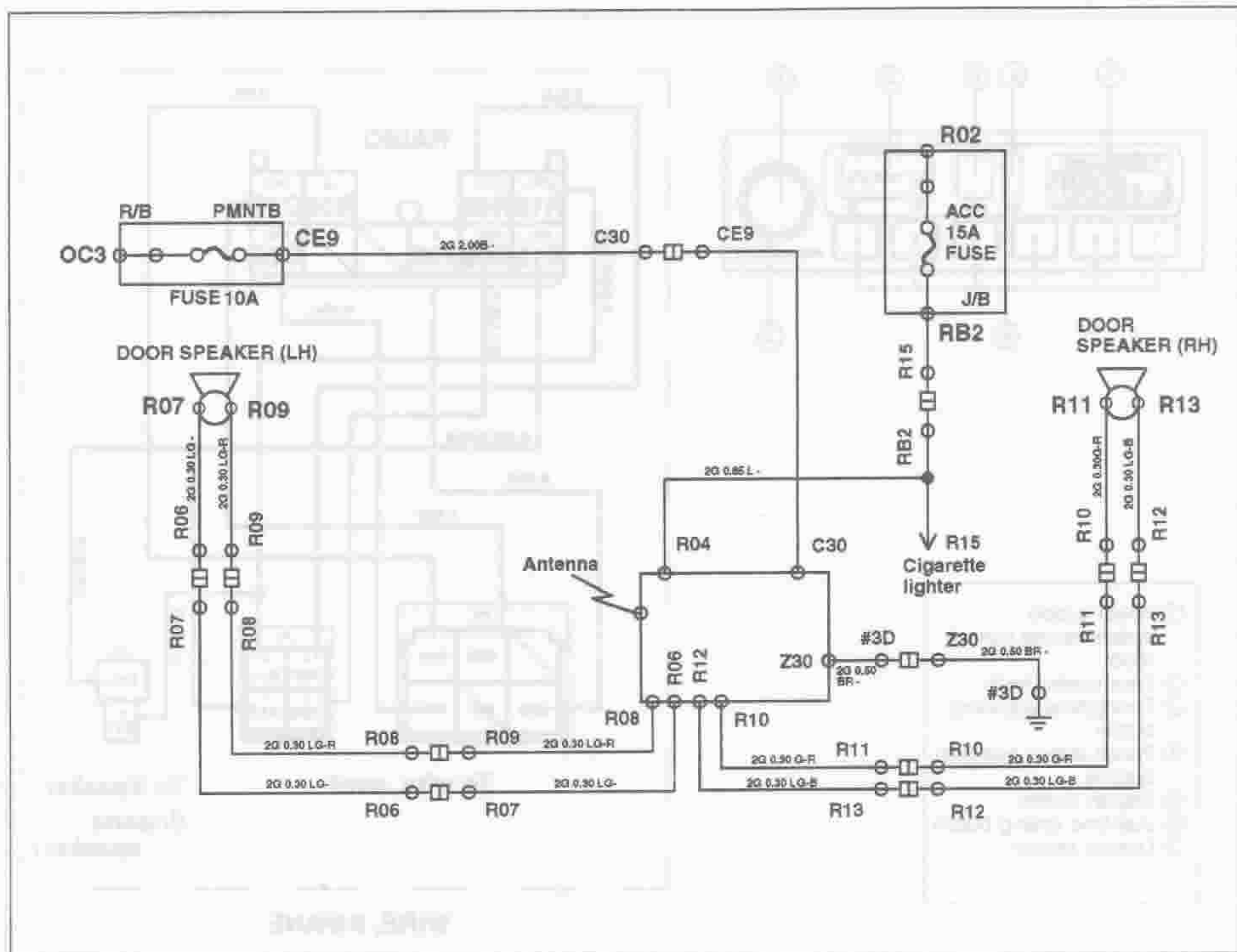


1. Remove the instrument panel cluster finish center panel.



- LAEOG178-01321

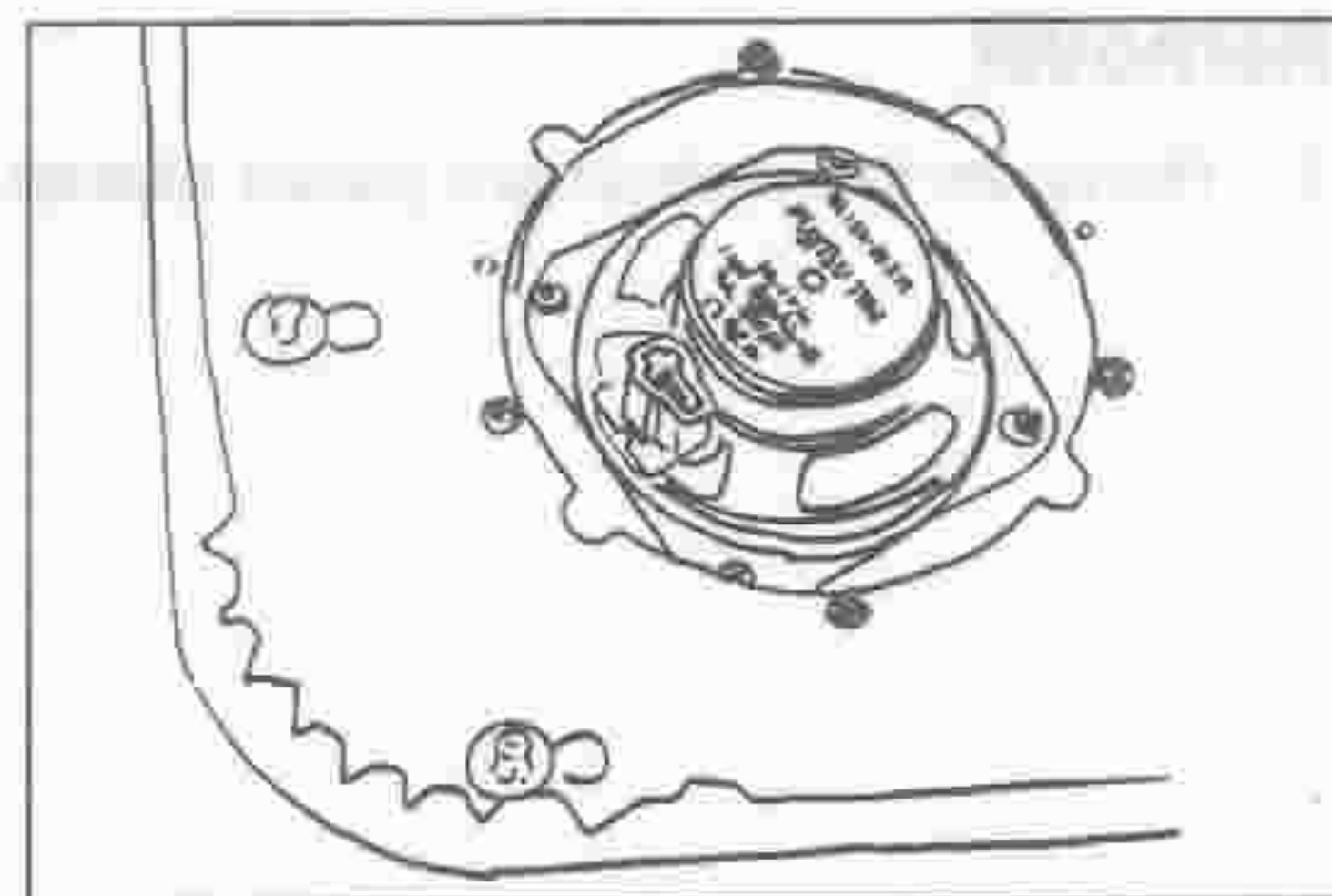
SPEAKER & ANTENNA ASSEMBLY



LBEO0179-0133C

DOOR SPEEKER

1. Remove the front door trim.
2. Disconnect the connector.
3. Remove the speaker.

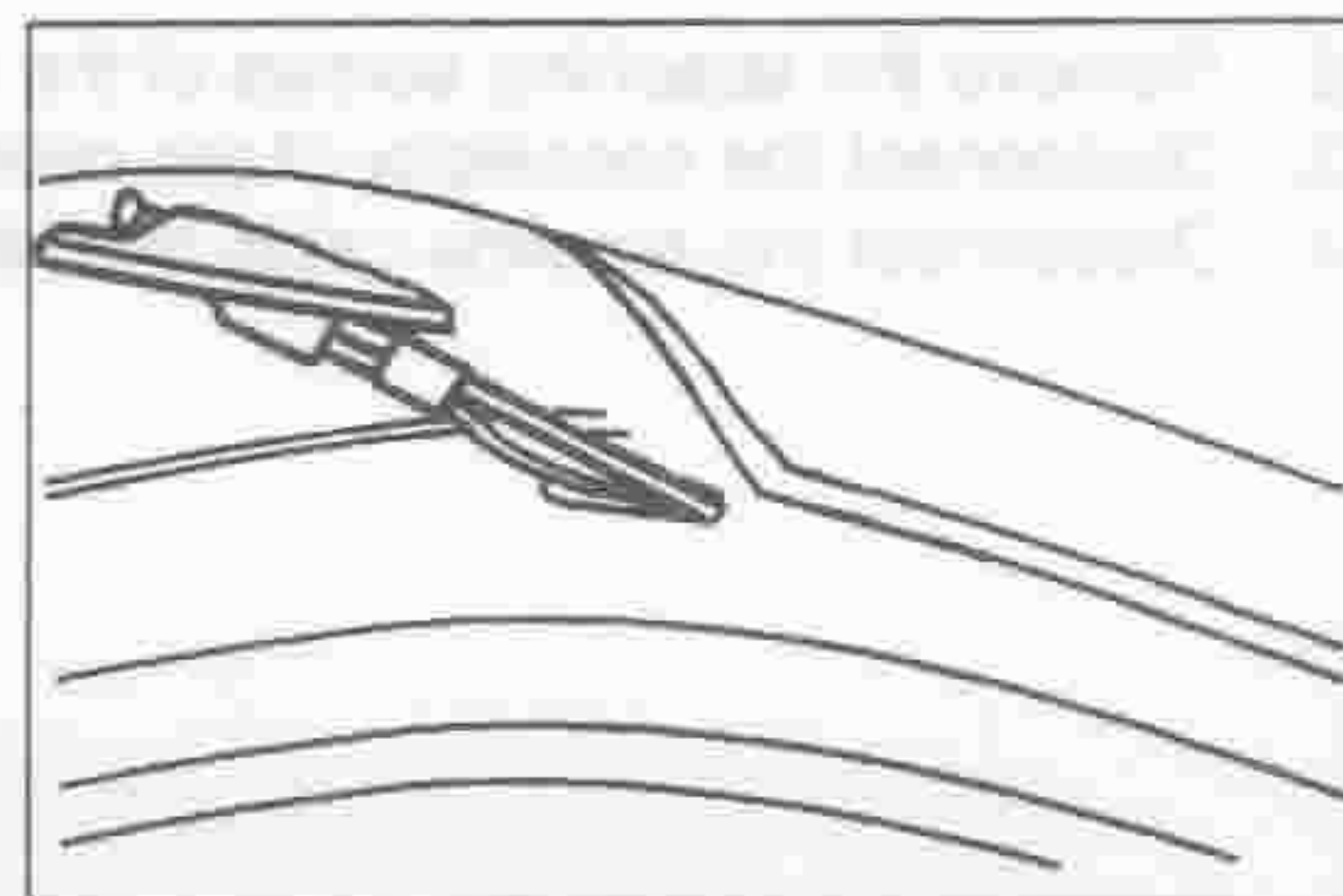


LBEO0180-01331

PILLAR ANTENNA

Removal

1. Remove the antenna cable clumps.
(At the heater and dush panel)
2. Remove the attaching screws of the antenna base.
3. Remove the antenna guide tube and antenna cable from the pillar.



LBFO0181-01332