

DAIHATSU
CUORE
Chassis

**Service
manual**

DAIHATSU MOTOR CO., LTD.

NO.9725-LE

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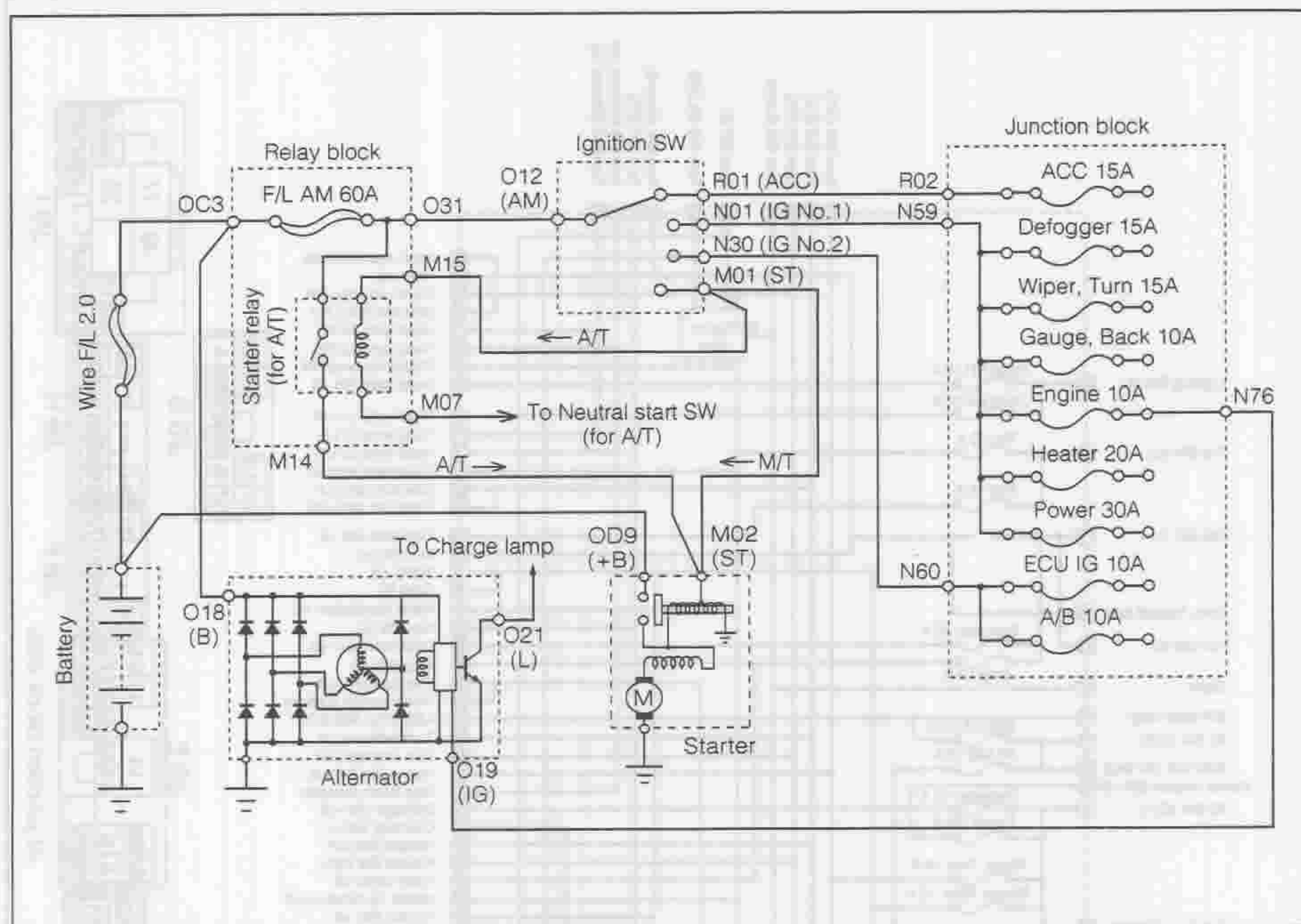
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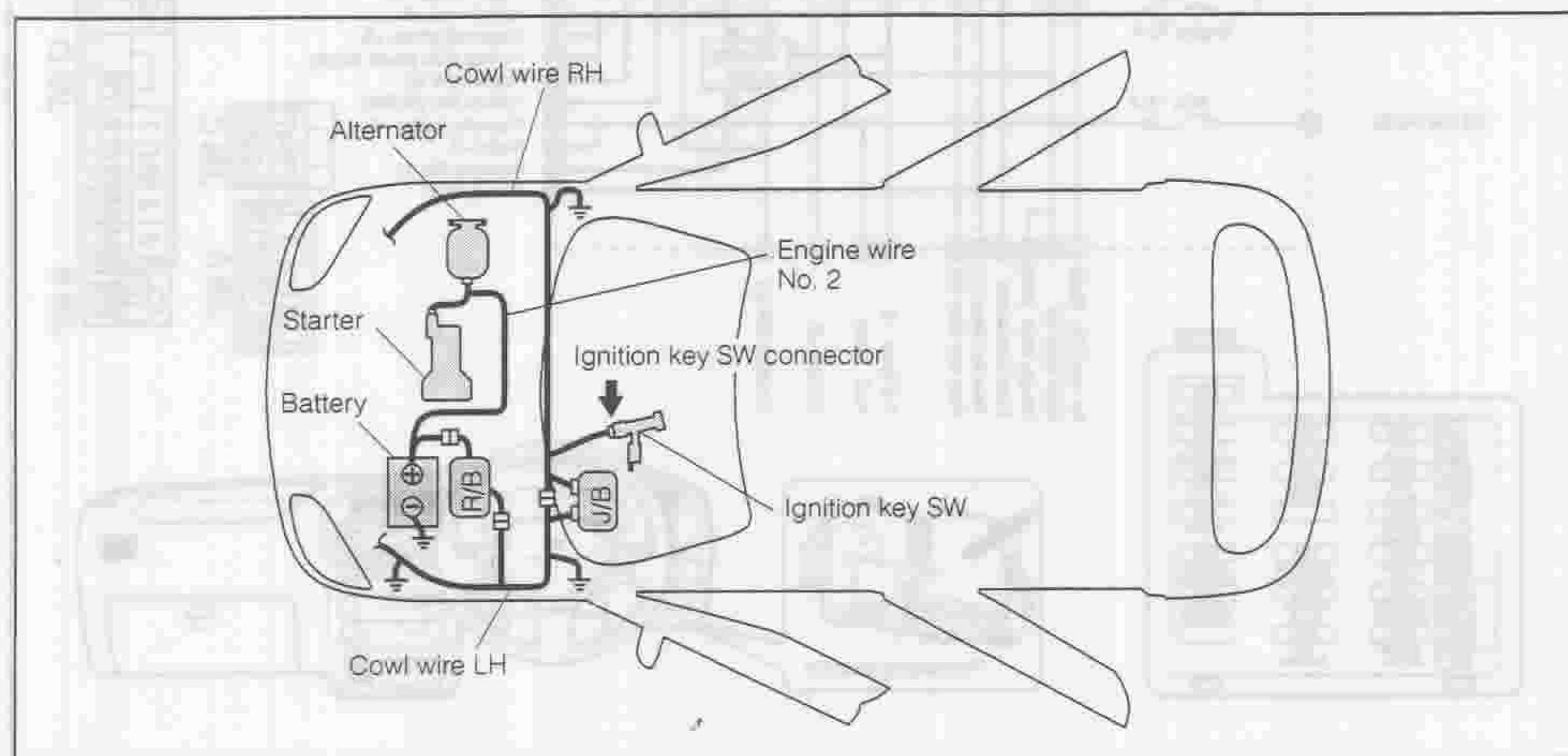
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IGNITION KEY SWITCH CIRCUIT DIAGRAM



REF00022-00019

CIRCUIT LAYOUT



LB00023-00020

TROUBLE SHOOTING HINTS

Malfunction phenomena				Possible malfunctioning parts			
Headlamp does not go on.	Both sides	High beam	Passing signal functions properly.	①	⑧		
			Passing signal also does not function.	①	②	③	⑧
		Low beam		①	⑧		
			High beam and Low beam (Including passing signal)	①	②	③	⑤
		Any one		④	⑥	⑧	
	High beam indicator lamp does not go on.			⑥	⑦	⑧	

①	Multi-use lever (Dimmer/High switch)
②	Multi-use lever (Passing switch)
③	Multi-use lever (Lighting switch)
④	Fuse at the junction block. (Head lamp RH/LH 10A)
⑤	Fuse at the relay block. (Head lamp 30A)
⑥	Headlamp bulb
⑦	Indicator bulb
⑧	Poor contact of connector

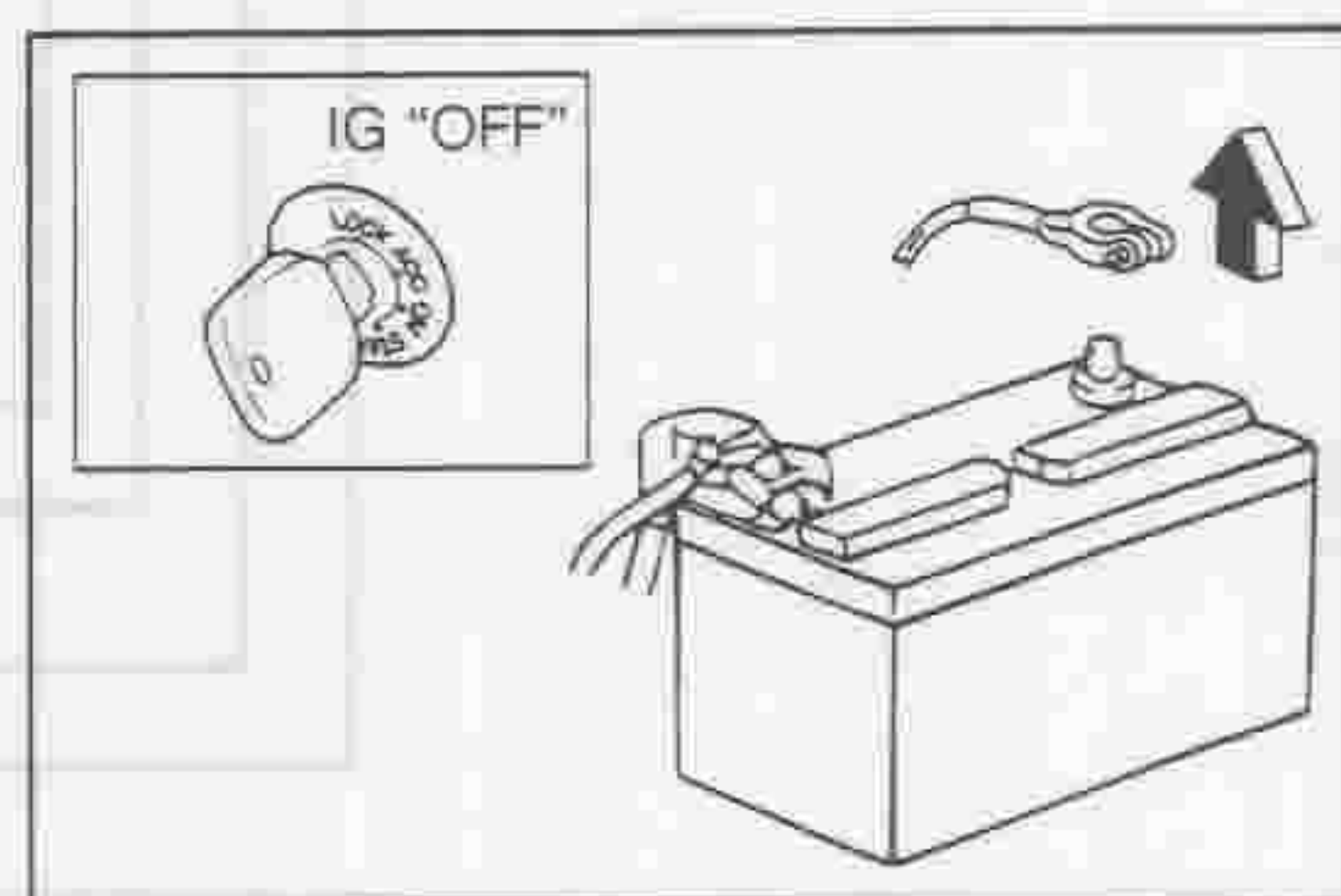
LBE00059-00000

REMOVAL OF MULTI-USE LEVER SWITCH

1. Turn OFF the ignition switch.
2. Disconnect the battery ground cable from the negative (-) terminal.

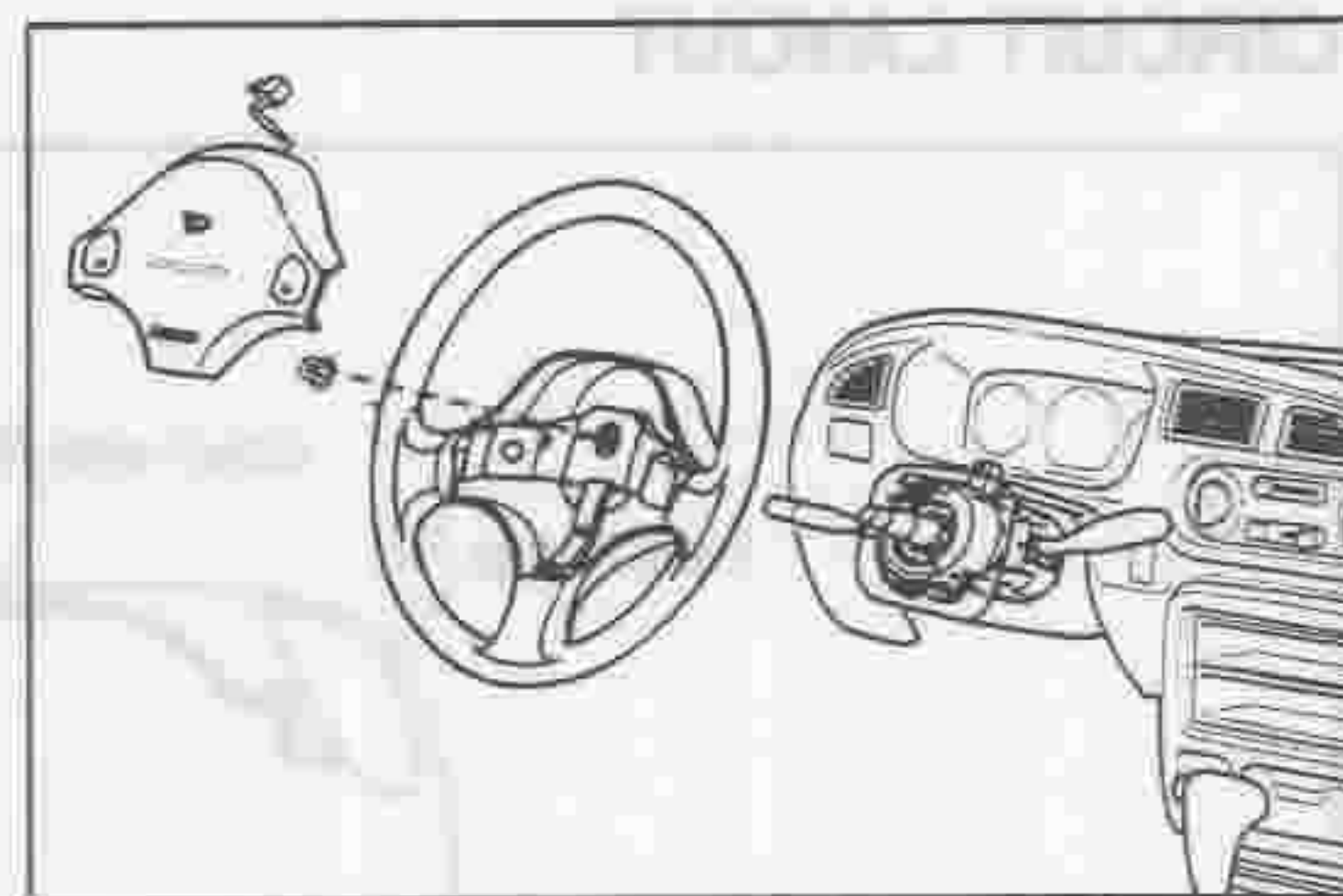
NOTE:

- In case of air bag equipped vehicle, wait for at least 90 seconds to prevent the air bag from the deployment.



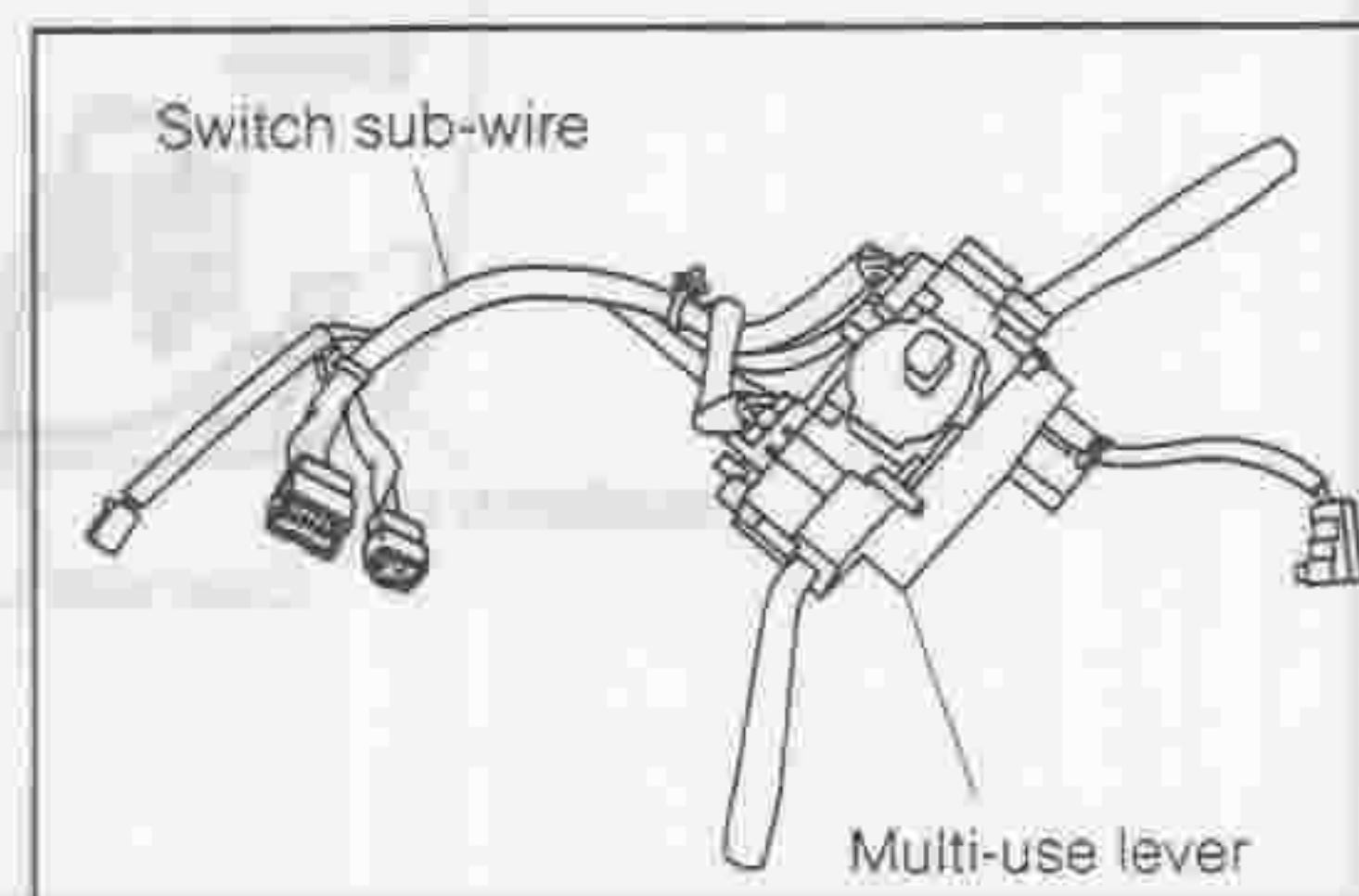
LBE00060-00056

3. Remove the attaching bolts (TORX®) at the right and left sides of the steering wheel cover side.
4. Remove the steering horn pad and the steering wheel.
5. Remove the steering column lower cover.



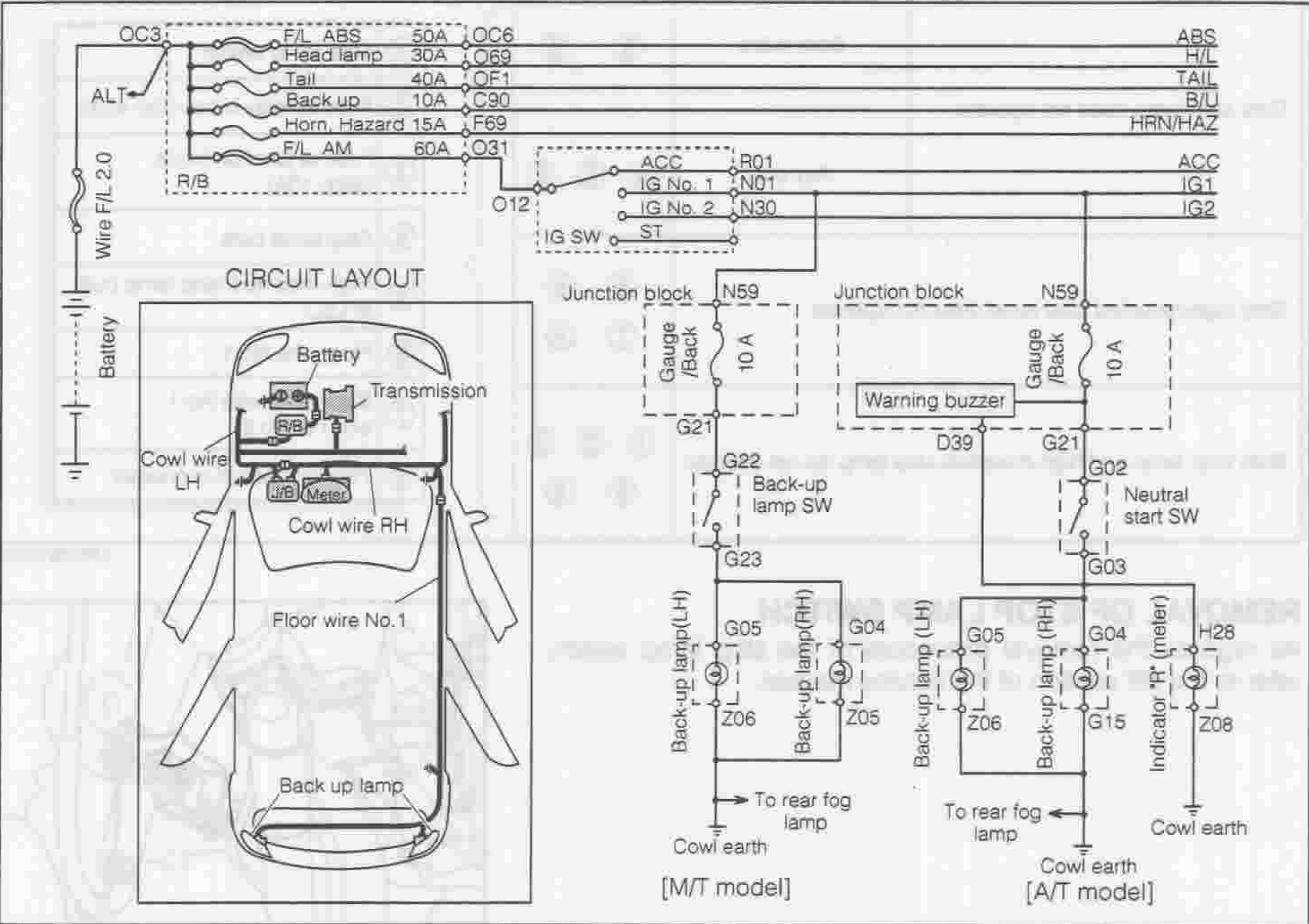
LBE00061-00057

6. Disconnect the connectors between the cowl wire harness and the multi-use lever switch sub-wire.
7. Remove the multi-use lever switch by loosening the attaching screws.



LBE00062-00058

BACK UP LAMP
CIRCUIT DIAGRAM



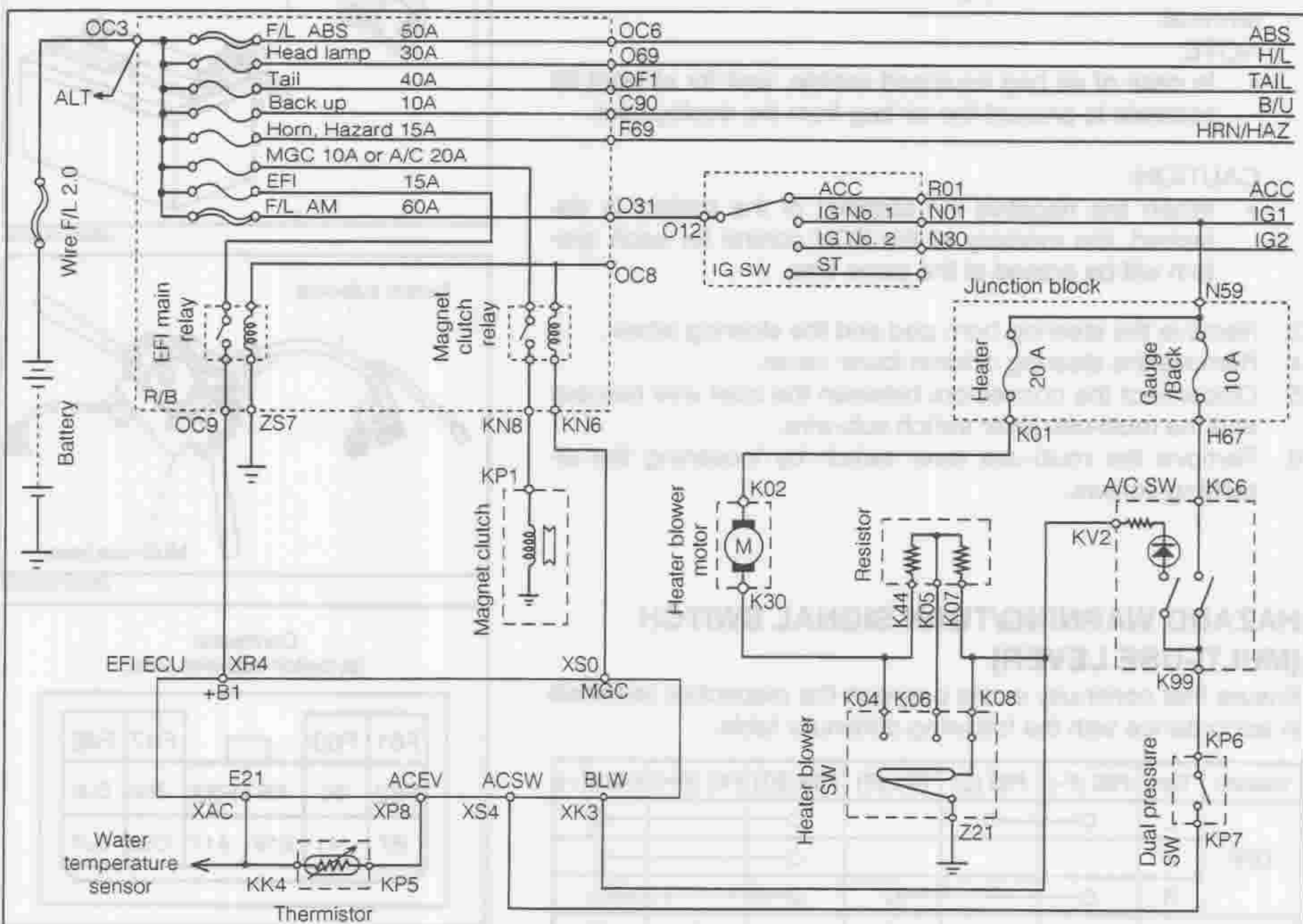
LBE00095-00087

TROUBLE SHOOTING HINTS

Malfunction phenomena	Possible malfunctioning parts
Back up lamp does not operate.	Back up lamp switch (Manual transmission) Neutral start switch (Automatic transmission) Fusible link at relay block (AM 60 A) Fuse at the junction block (Gauge / back 10 A) Back up lamp bulb Poor contact of the connector at the back up lamp switch
Warning buzzer does not operate. (Automatic transmission)	Buzzer at the junction block Poor contact of the connector at the back up lamp switch

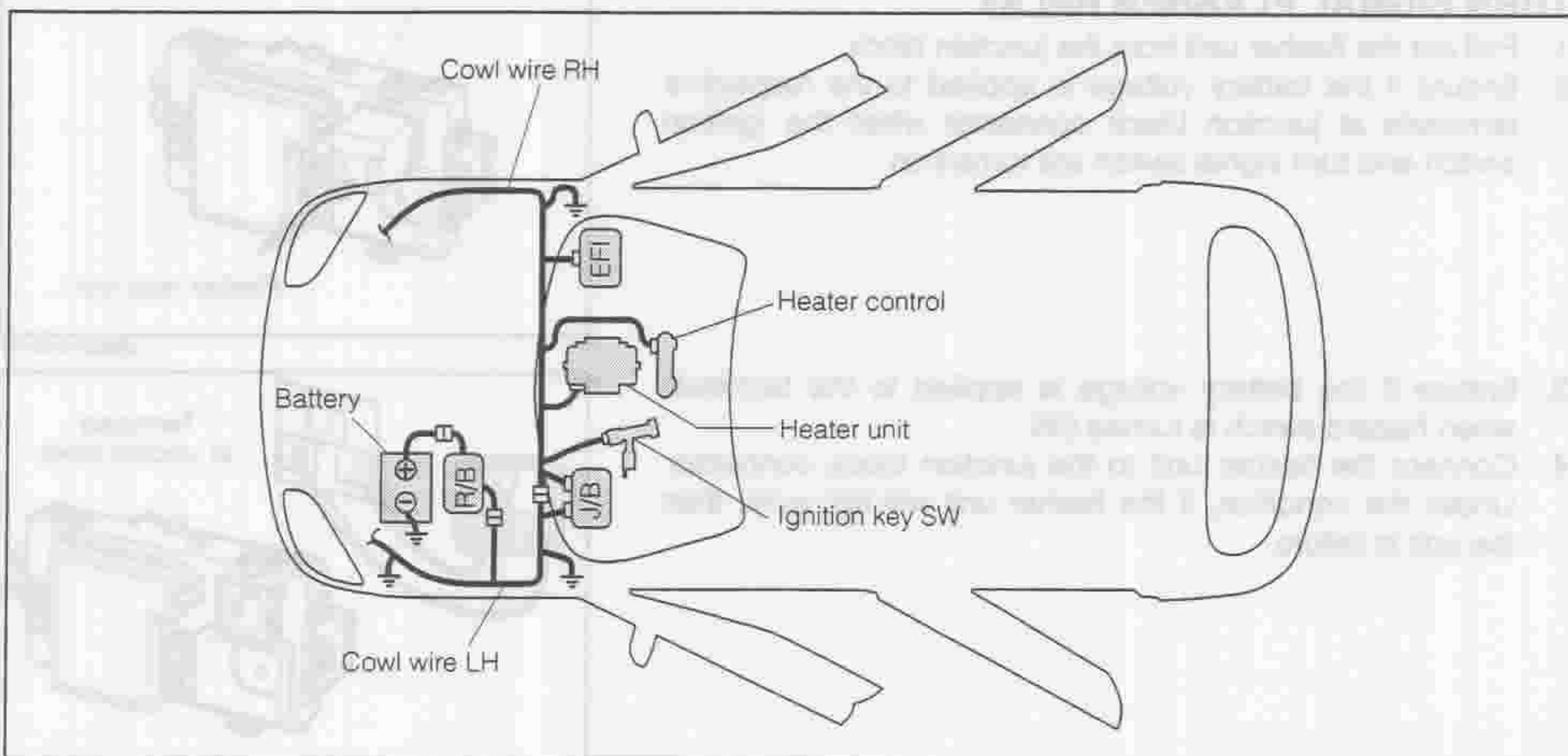
LBE00096-00000

HEATER & VENTILATION CIRCUIT DIAGRAM



LBE00120-00109

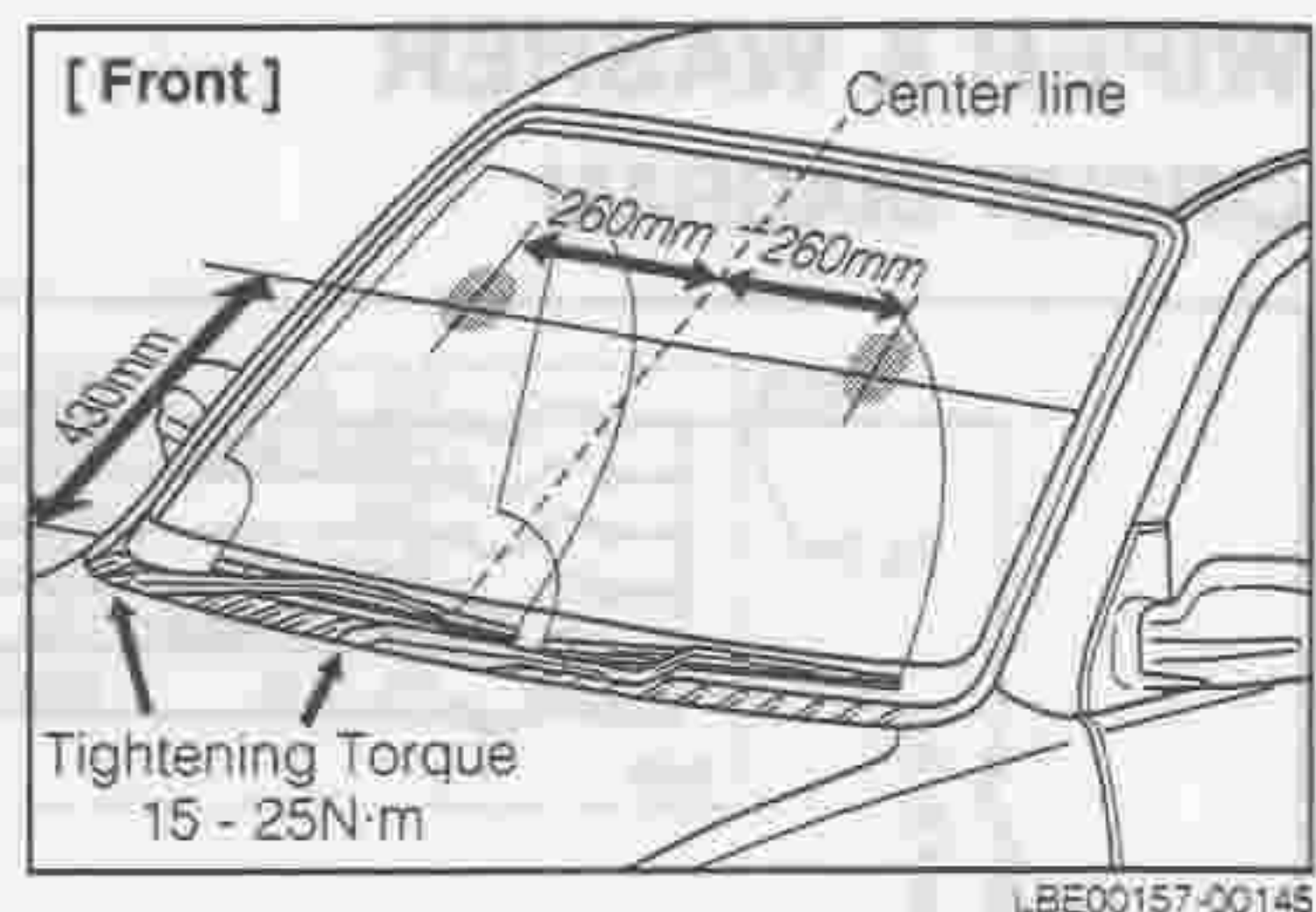
CIRCUIT LAYOUT



LBE00121-00110

ADJUSTMENT OF FRONT WIPER ARM AND WASHER NOZZLE

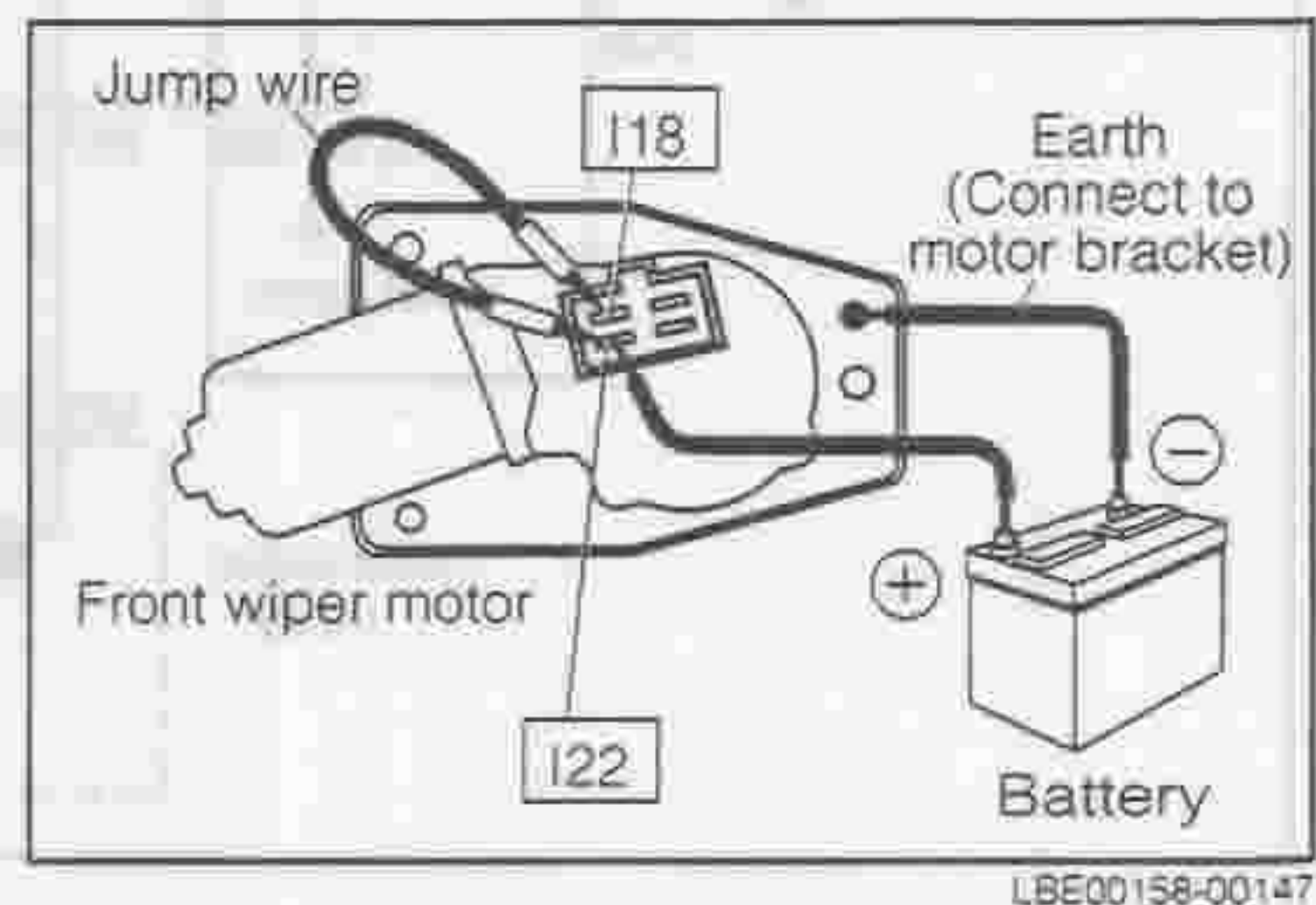
Inspect the wiping area and stationary position of the wiper blade.



INSPECTION OF FRONT WIPER MOTOR

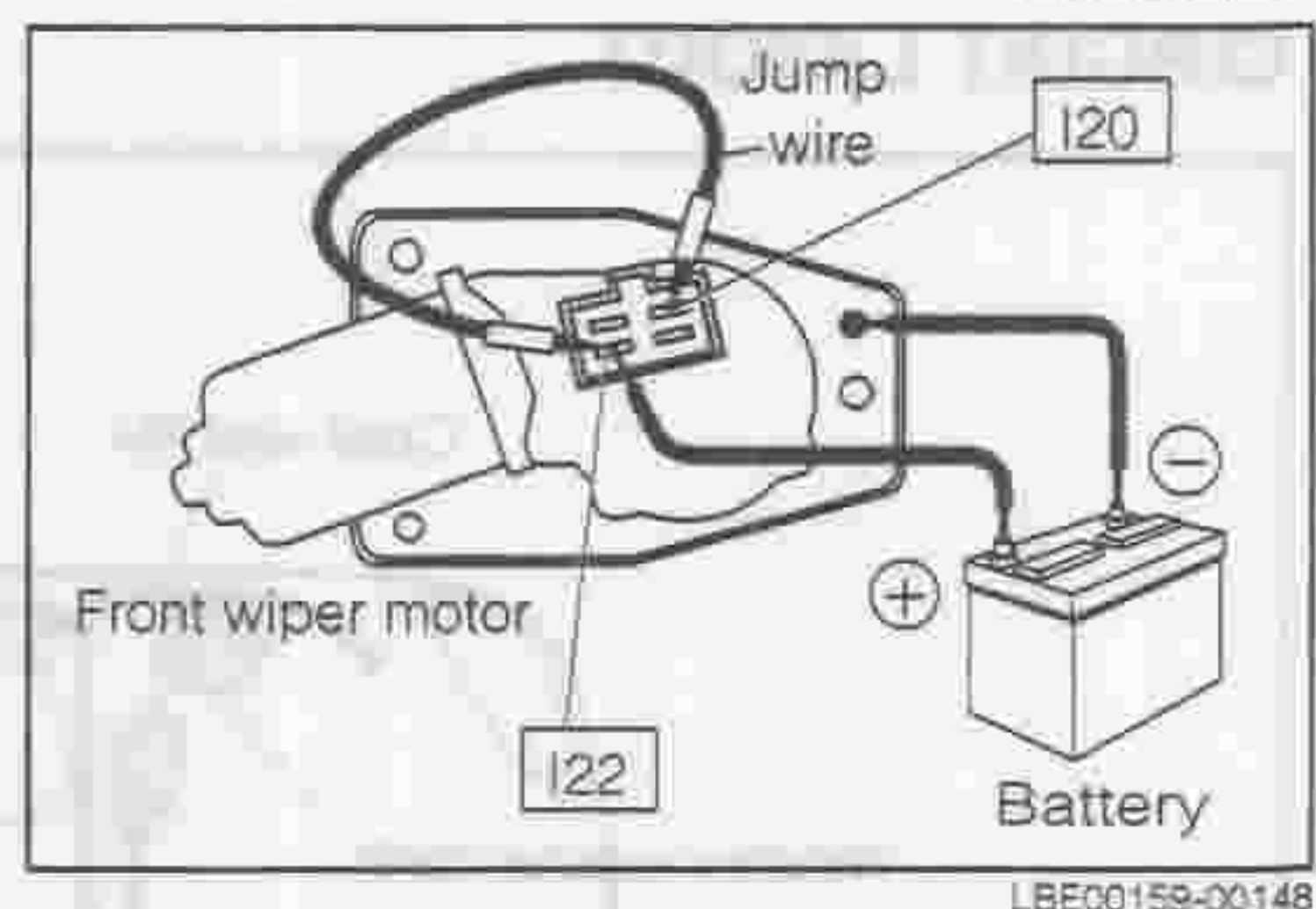
Low speed operation check

1. Apply a battery voltage (12 V) to the terminal I22 (WB) and the wiper motor bracket.
2. Ensure that the wiper operates at the low speed when the terminal I22 (WB) and I18 (+1) are connected with a jump wire.



High speed operation check

1. Apply a battery voltage (12 V) to the terminal I22 (WB) and the wiper motor bracket.
2. Ensure that the wiper operates at the high speed when the terminal I22 (WB) and I20 (+2) are connected with a jump wire.



OFF (Auto-stop) operation check

1. Apply a battery voltage (12 V) to the terminal I22 (WB) and the wiper motor bracket.
2. Perform the low speed or high speed check procedure, and after that, disconnect the jump wire.
3. Ensure that the wiper operates to some extent and then stops at the proper position, when the terminal I18 (+1) and I24 (WS) are connected with a jump wire.

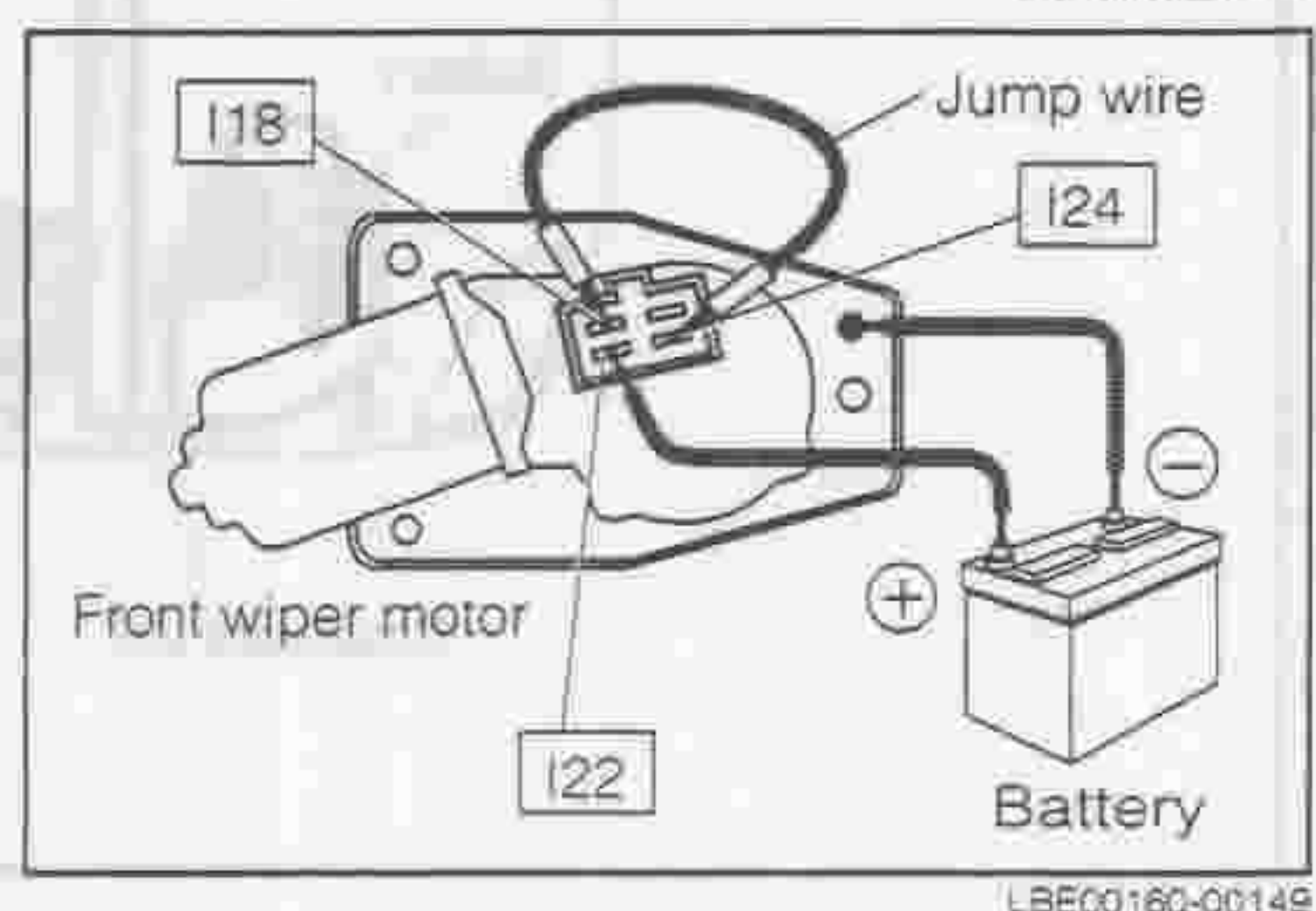


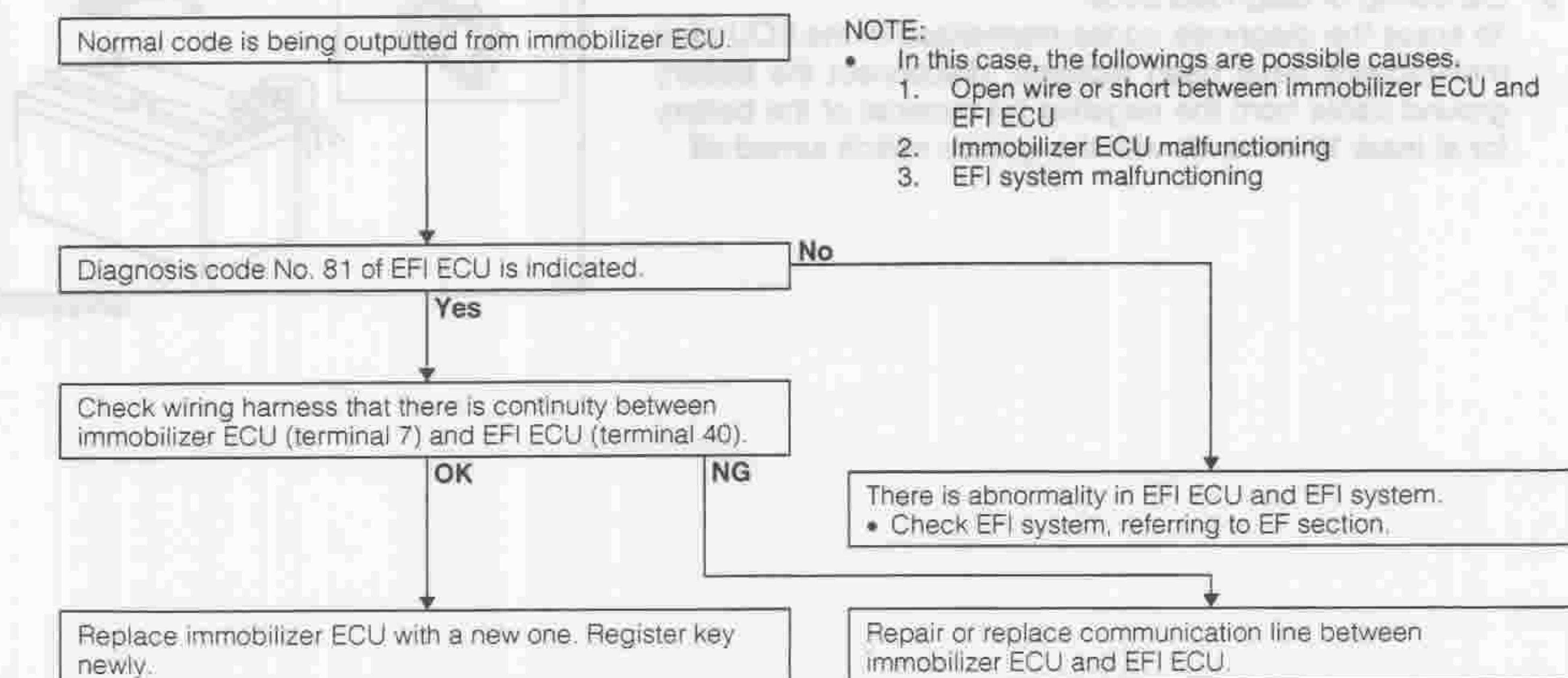
TABLE OF DIAGNOSIS CODES

Code No.	Number of glowing of check lamp	Diagnosis item	Diagnosis contents
12		Malfunction of transponder	When there is no reply from key transponder after the coil has energized key transponder. (This diagnosis code is cleared if ID code can be read normally next time.)
21		Unmatching of ID codes	When immobilizer ECU determines that an attempt was made to start engine, using an unregistered key.
23		Unregistered ID codes	When transponder code to immobilizer ECU is unregistered: (Code to backup RAM is not memorized.)
31		Abnormality of registration mode	At time of registration of sub key, terminal T is not connected to ground, or an attempt is made to make registration, using a sub key. (Code to backup RAM is not memorized.)
41		Faulty communication between immobilizer ECU and EFI ECU • Non-matching of codes	When a signal of non-matching of code is received at time of communication with EFI ECU.
42		Faulty communication between immobilizer ECU and EFI ECU • When there is no reply of code:	When reply of code has not been received within specified time from EFI ECU at time of communication with EFI ECU.

LBE00233-00000

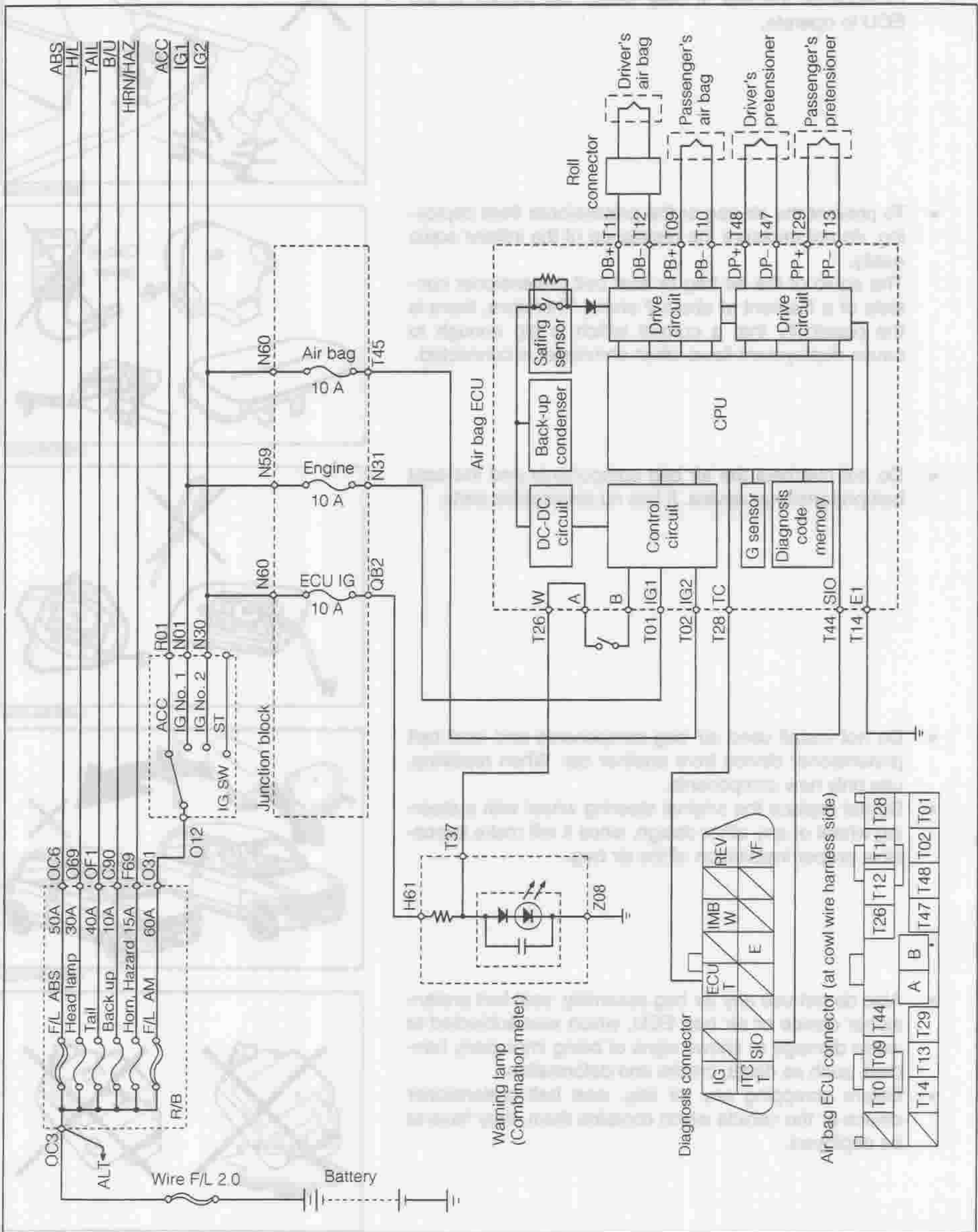
TROUBLE SHOOTING ACCORDING TO DIAGNOSIS CODE

1. Normal code is outputted.

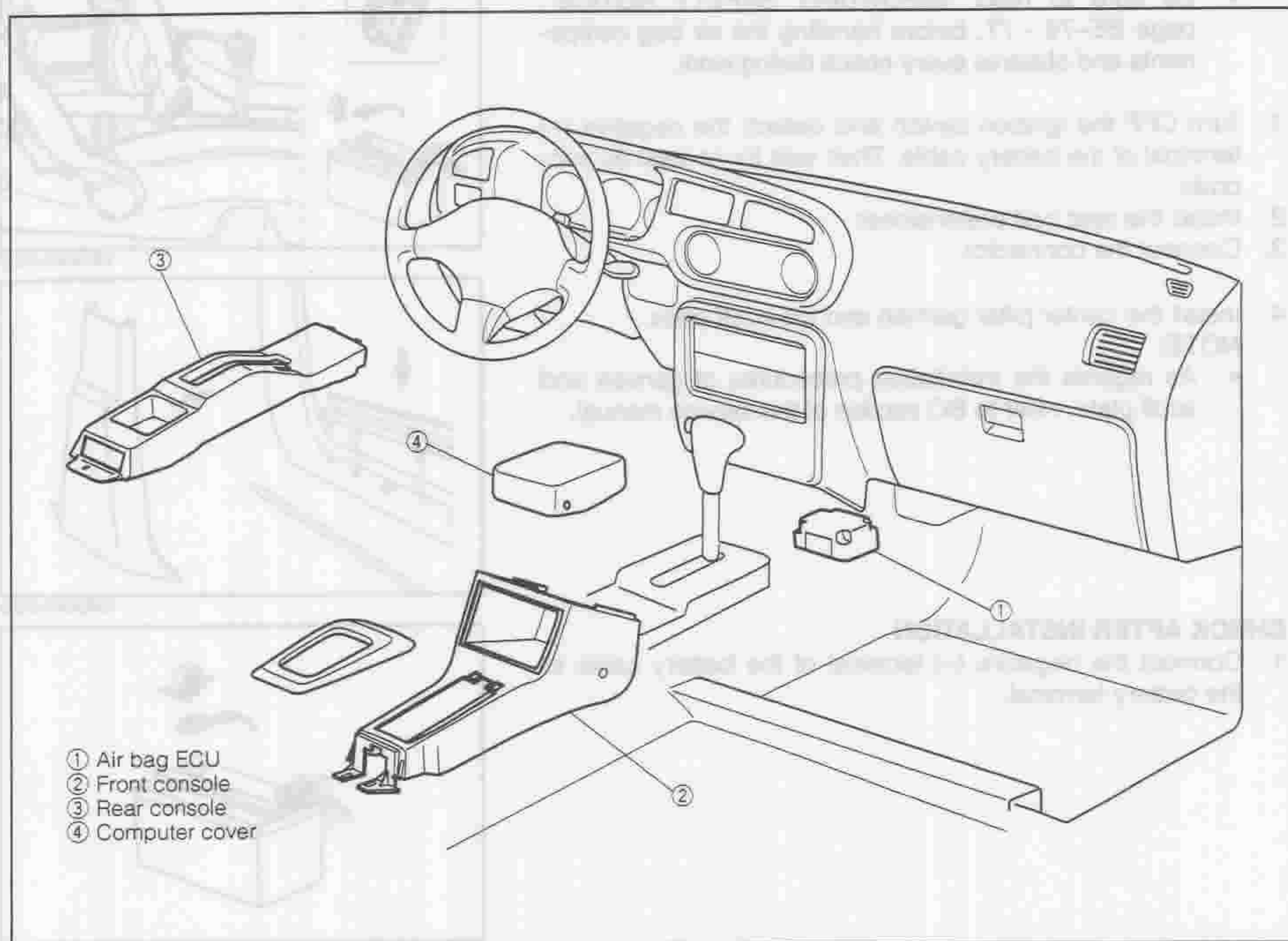


LBE00234-00000

SYSTEM DESCRIPTION CIRCUIT DIAGRAM



AIR BAG ECU COMPONENTS



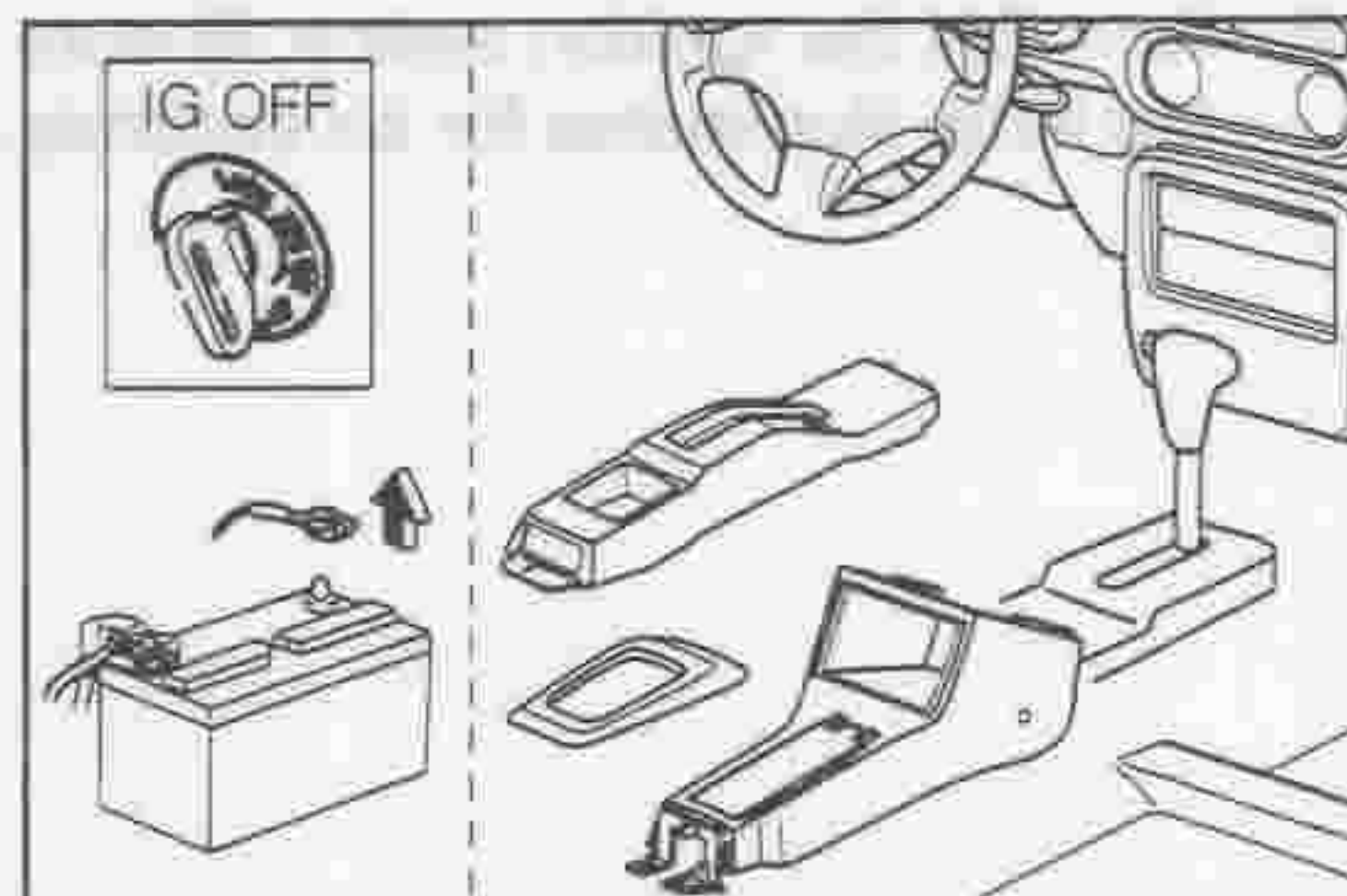
LBE00304-00279

REMOVAL

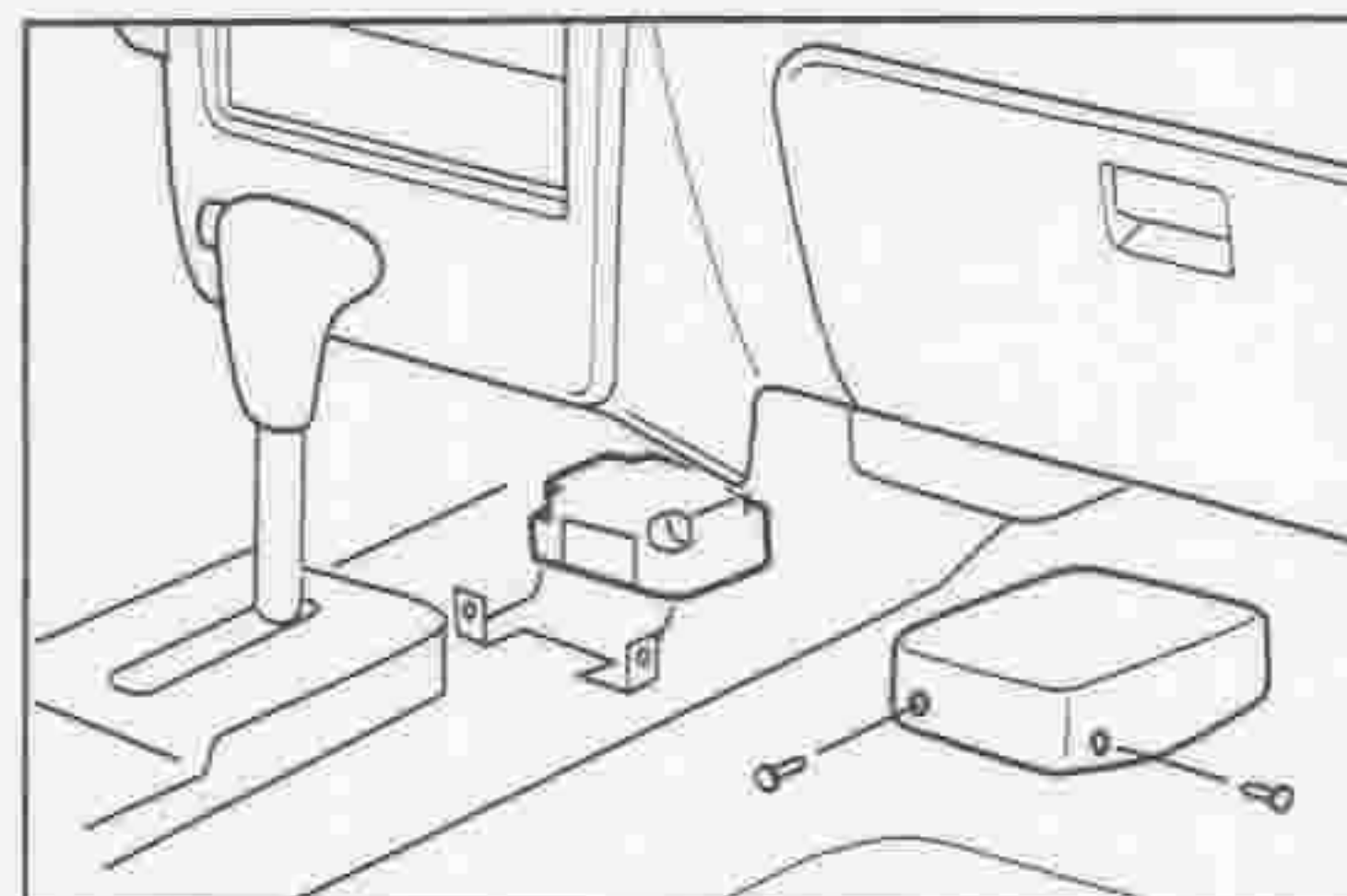
WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page BE-76 - 77, before handling the air bag components and observe every notice during work.

1. Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 90 seconds.
2. Remove the front and rear console box by removing attaching screws.
3. Remove the computer cover.



LBE00305-00280



LBE00306-00281

<DIAGNOSIS CODE 22>

WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page BE-76 - 77, before handling the air bag components and observe every notice during work.
- When this code is indicated, the air bag system may operate as soon as the safing sensor at the ECU is turned on. Hence, if this code is indicated, immediately turn off the ignition key switch and proceed to the following steps.

Explosion-preventive measure

1. Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 90 seconds.
2. Disconnect the connector from the air bag ECU.
3. Remove the steering pad assembly (air bag unit) from the steering wheel.
4. Disconnect the pad assembly connector from the roll connector.

Inspection

1. Connect the battery negative (-) cable.
2. Connect the voltmeter to the vehicle wire harness side terminals. Then, turn on the ignition switch.

Between Terminal T11 (DB+) and T01 (IG1):

No voltage exists.

Between Terminal T12 (DB-) and T01 (IG1):

No voltage exists.

3. Turn OFF the ignition switch.
4. Connect the connector at the vehicle wire harness side and the air bag ECU connector.
5. Connect the voltmeter between the roll connector terminal and body earth.
6. Turn ON the ignition switch. Ensure that no voltage exists between the terminal and body earth.

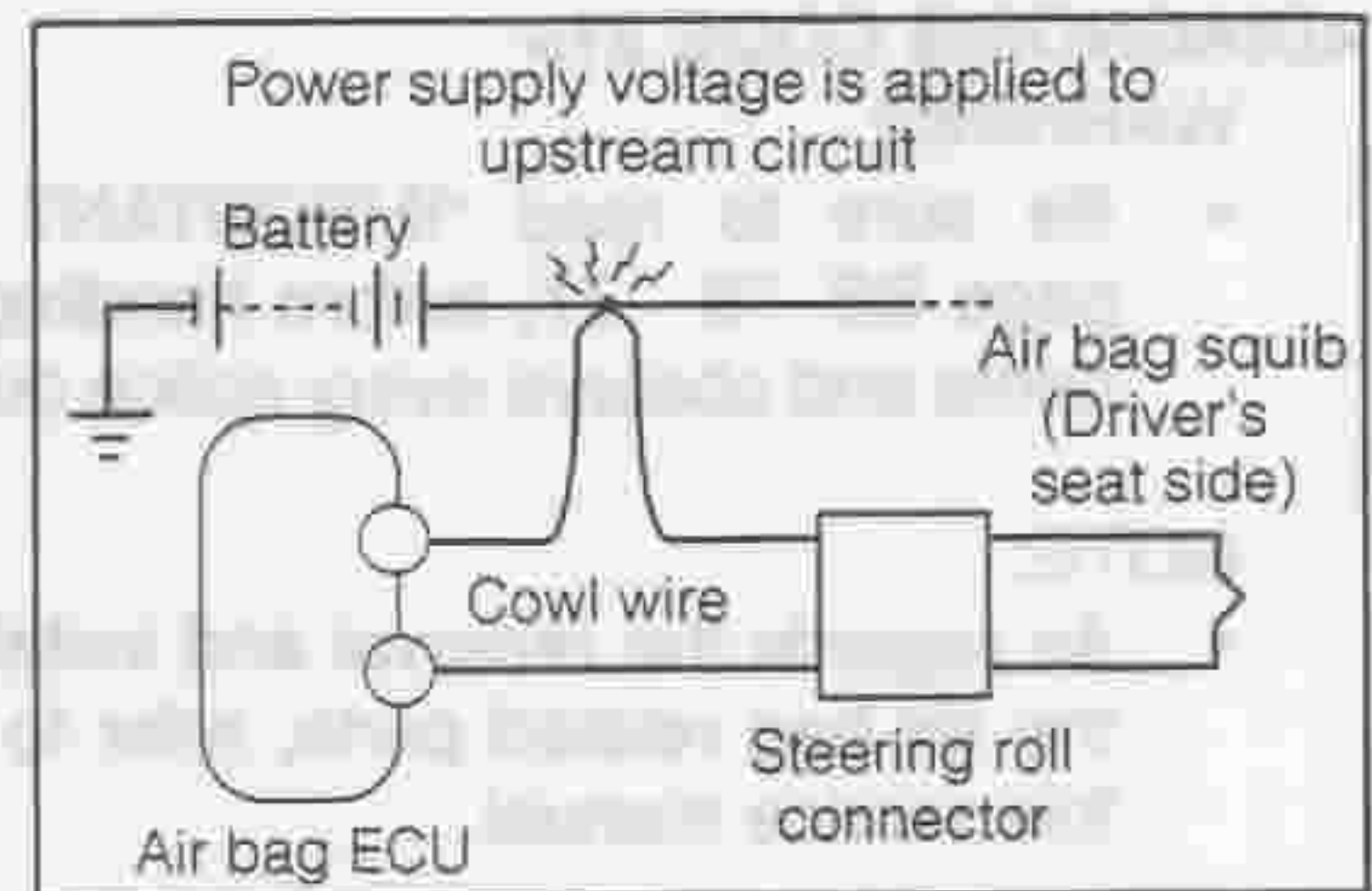
Between Terminal F2 and Body Earth:

No voltage exists.

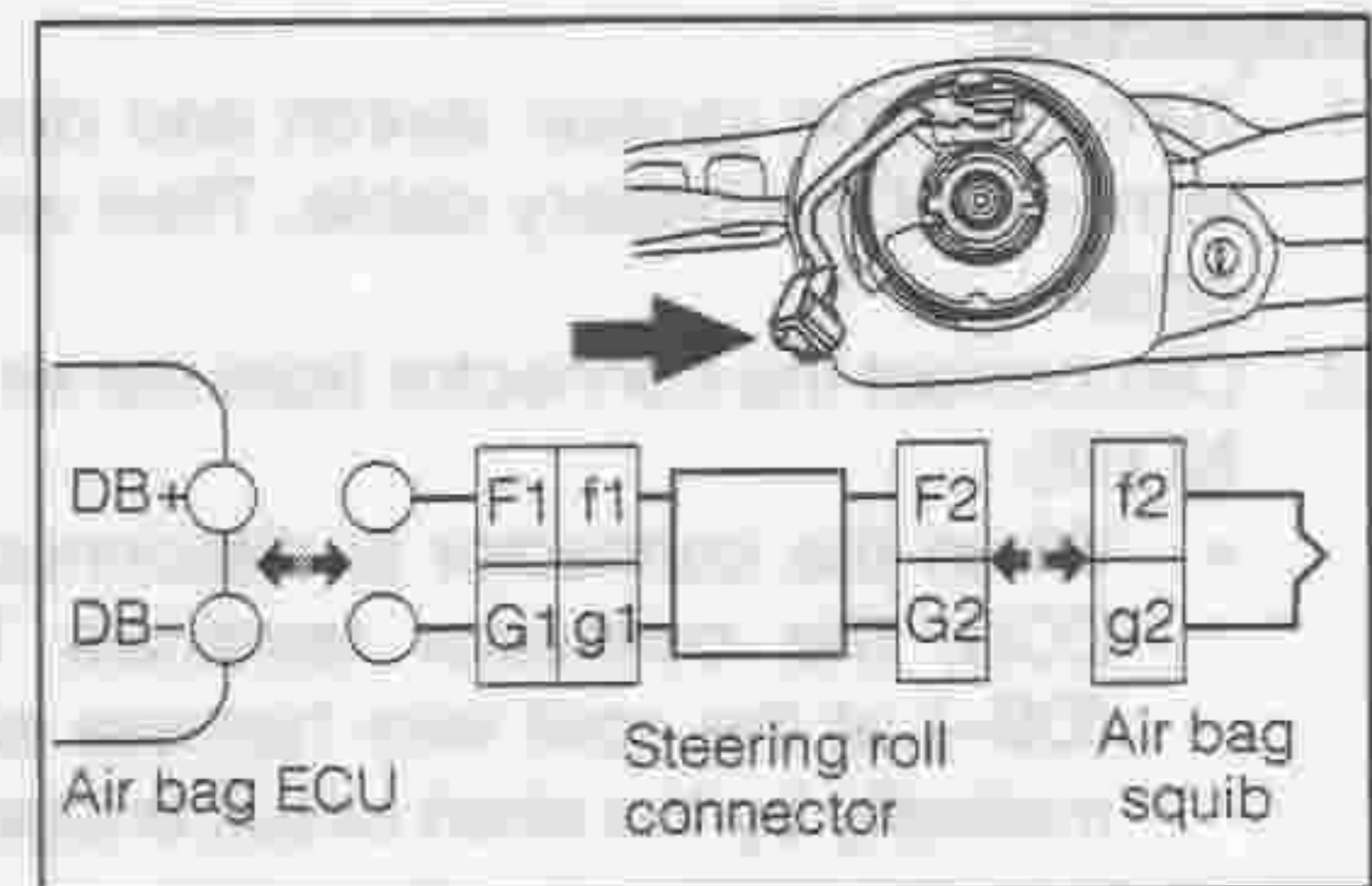
Between Terminal G2 and Body Earth:

No voltage exists.

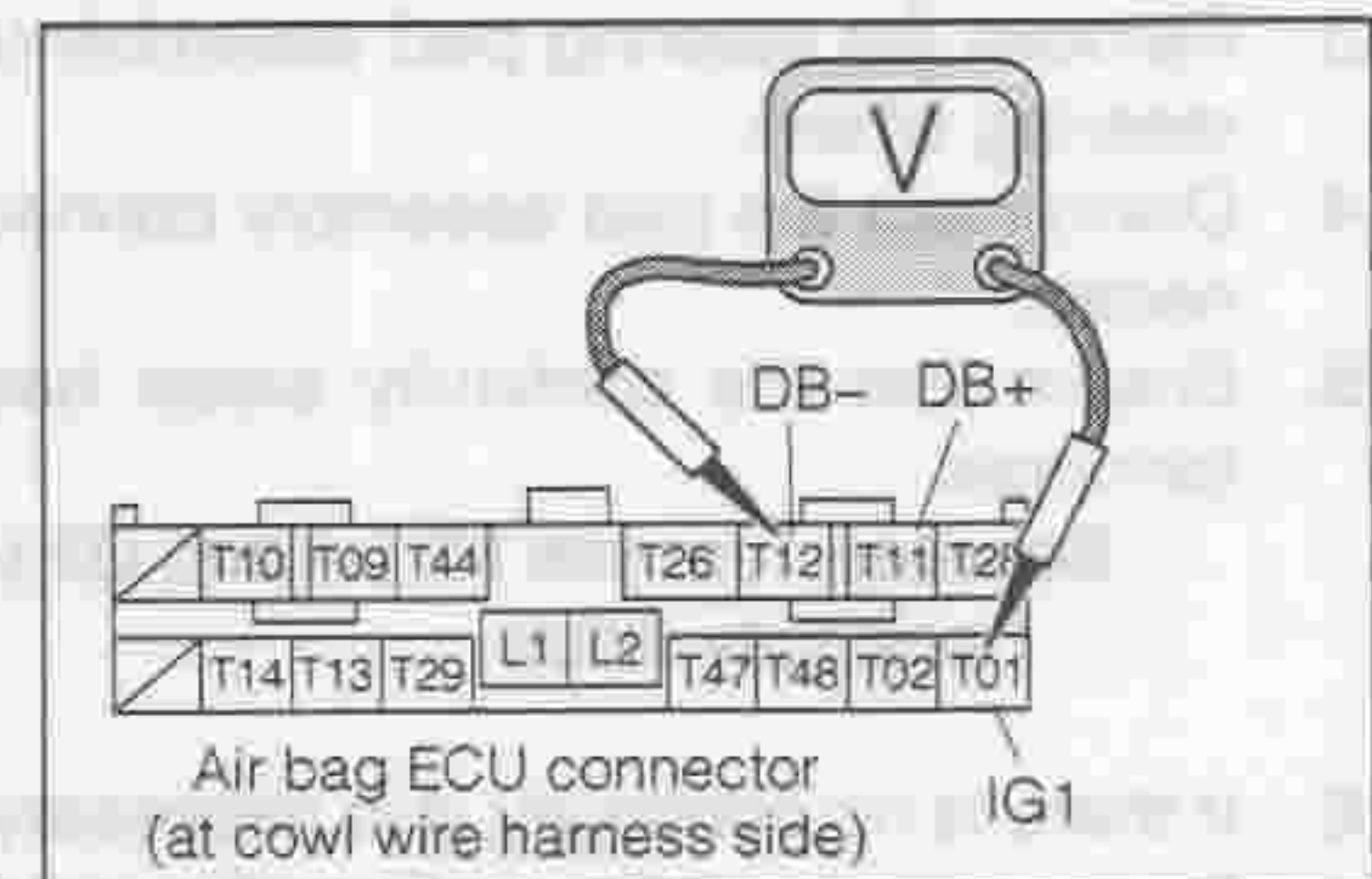
7. After the inspection and installation, cancel the diagnosis code and confirm that the code 22 is not outputted any more.



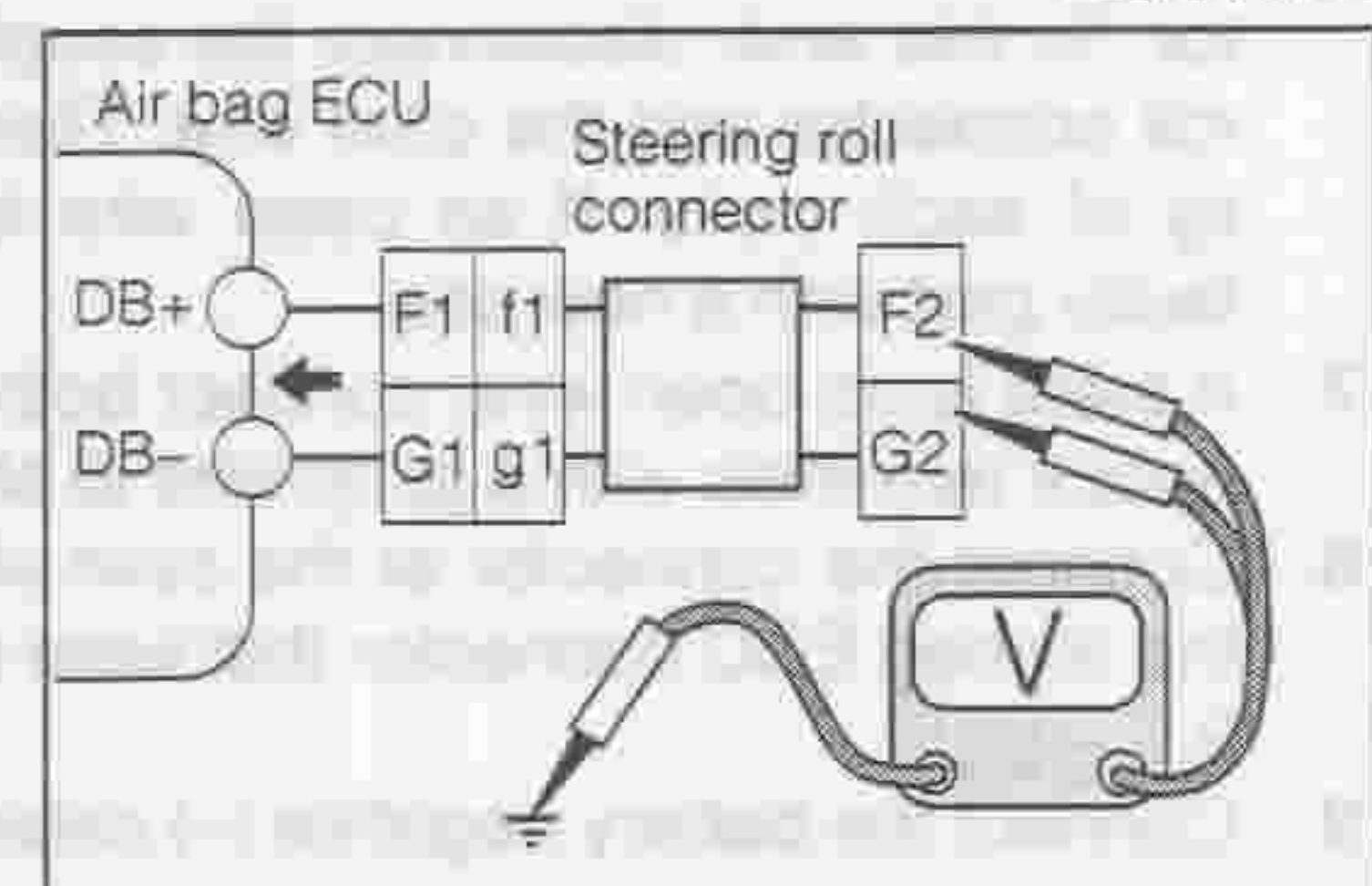
LBE00343-00316



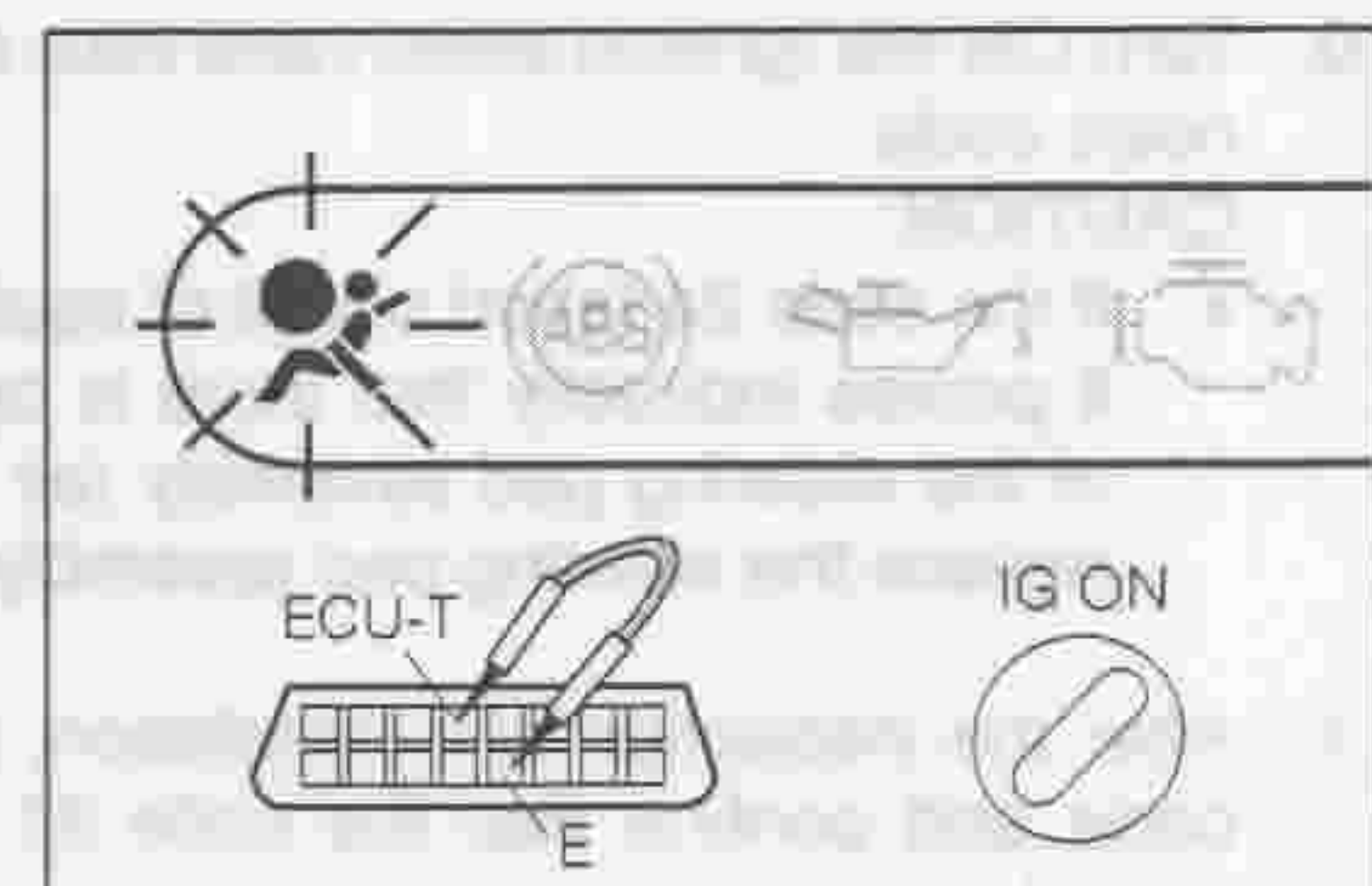
LBE00344-00317



LBE00345-00318



LBE00346-00319



LBE00347-00320

<DIAGNOSIS CODE 44>

WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page BE-76 - 77, before handling the air bag components and observe every notice during work.

NOTE:

- As regards the removal and installation procedures for the air bag related parts, refer to page BE-81 - 89 of this service manual.

Inspection

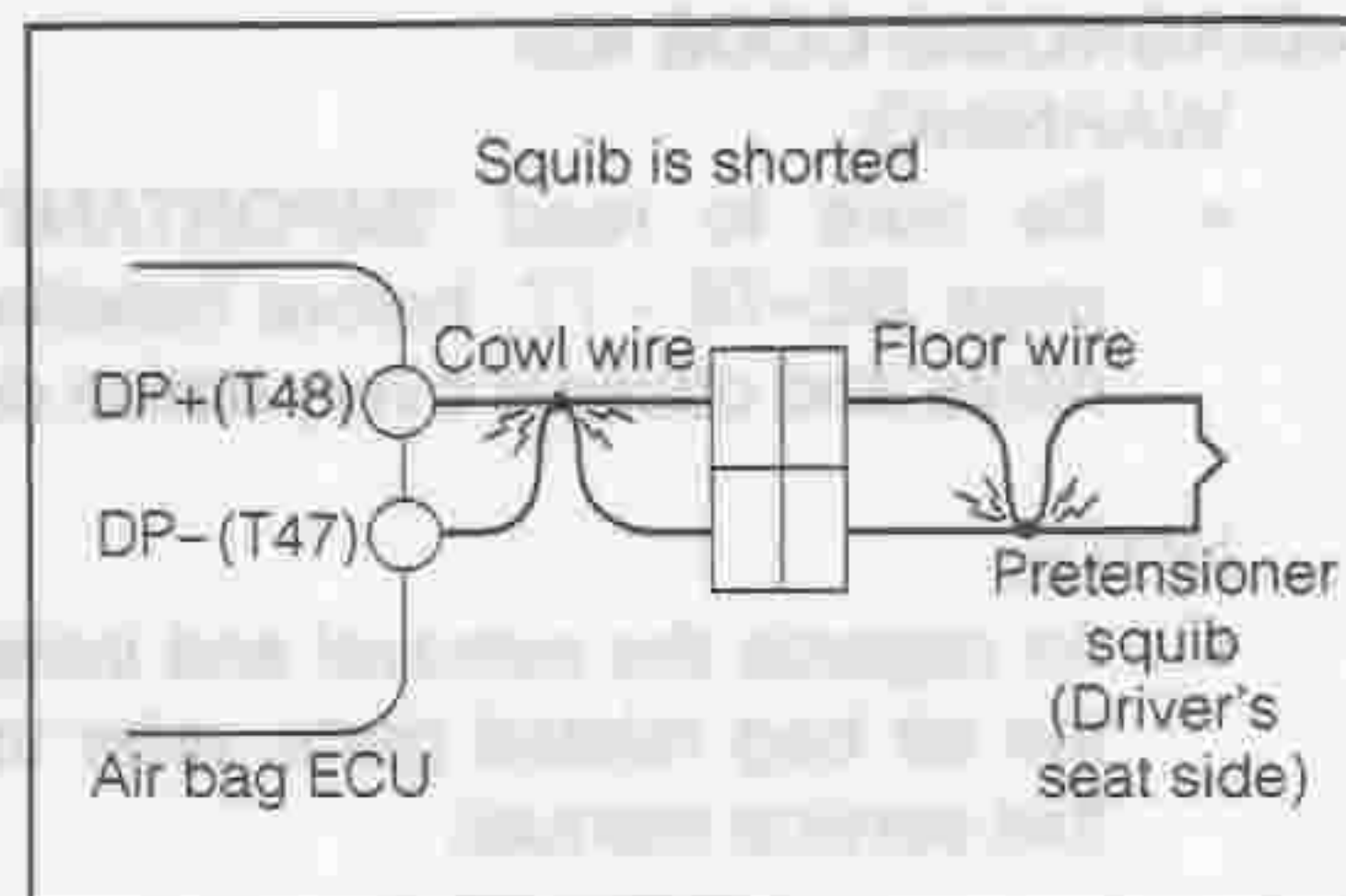
- Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 90 seconds.
- Disconnect the connector which connects the wire harness of the driver's side seat belt pretensioner and the floor wire No. 1.

- Remove the computer cover. Disconnect the connector at the vehicle wire harness side from the air bag ECU.

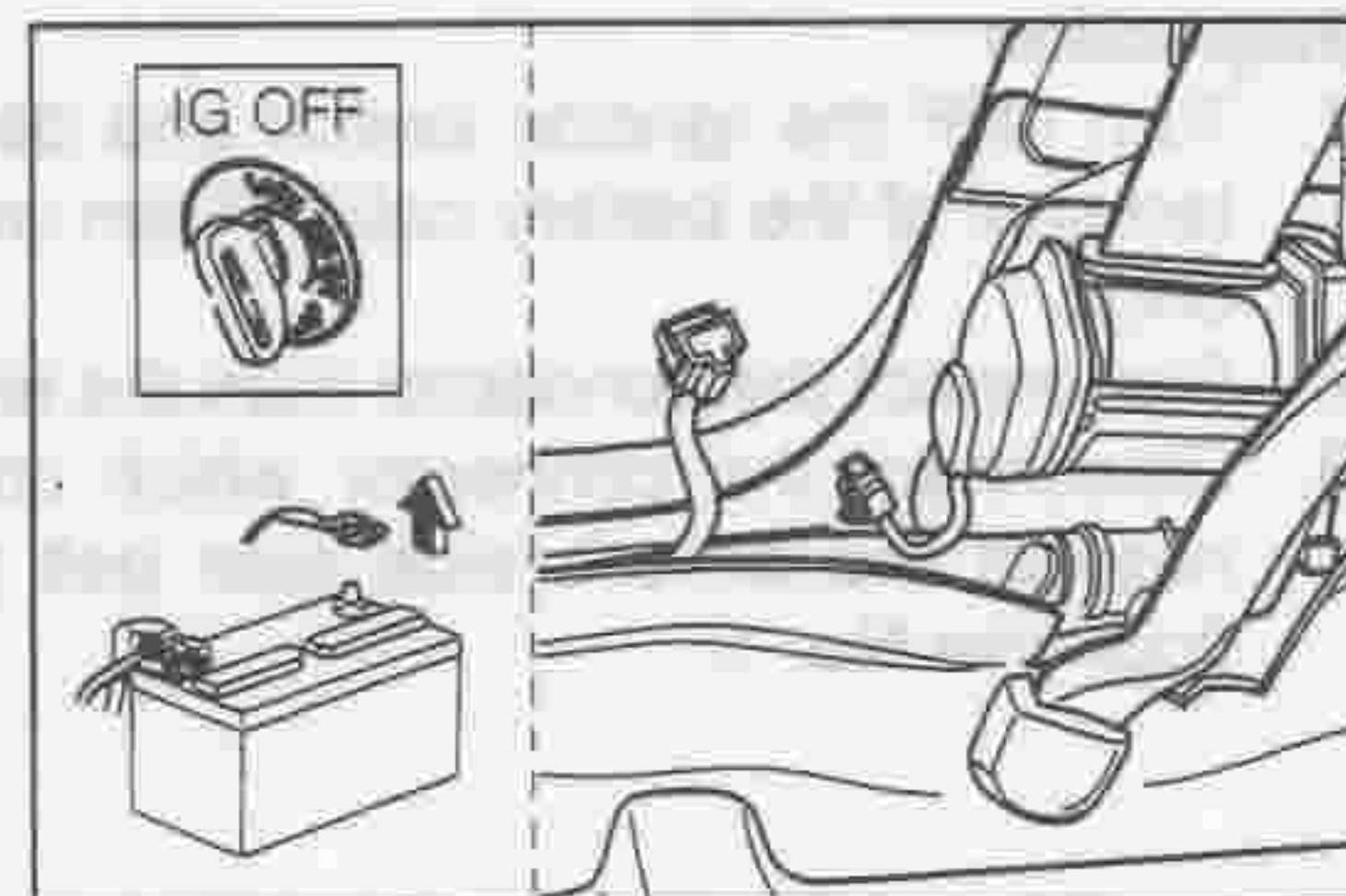
- Connect the ohmmeter to the floor wire terminal. Check to see if any short circuit exists from the air bag ECU to the seat belt pretensioner via the wire harness.

Between Terminal M and N: No continuity exists.

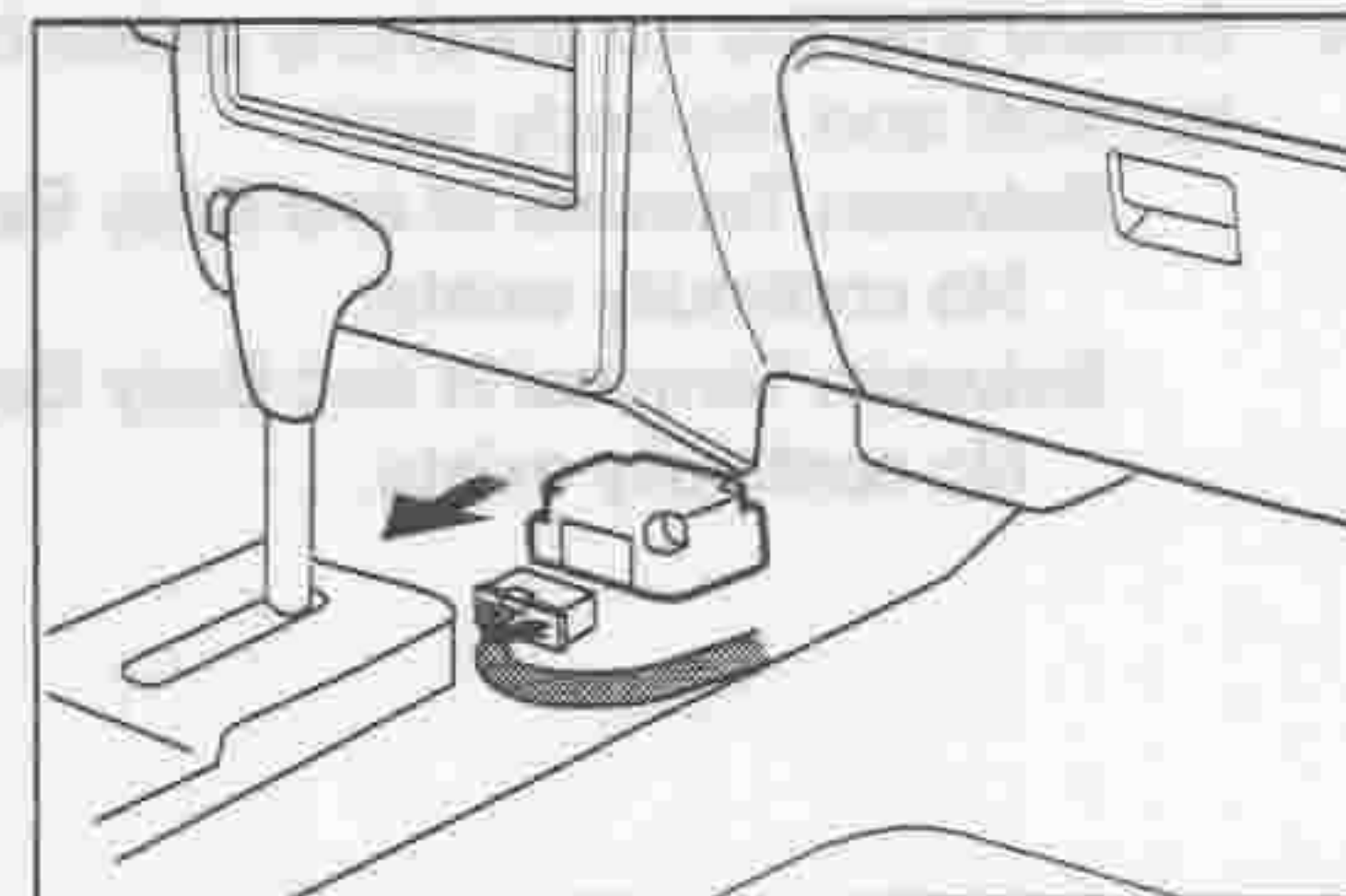
- After the inspection and installation, cancel the diagnosis code and confirm that the code 44 is not outputted any more.



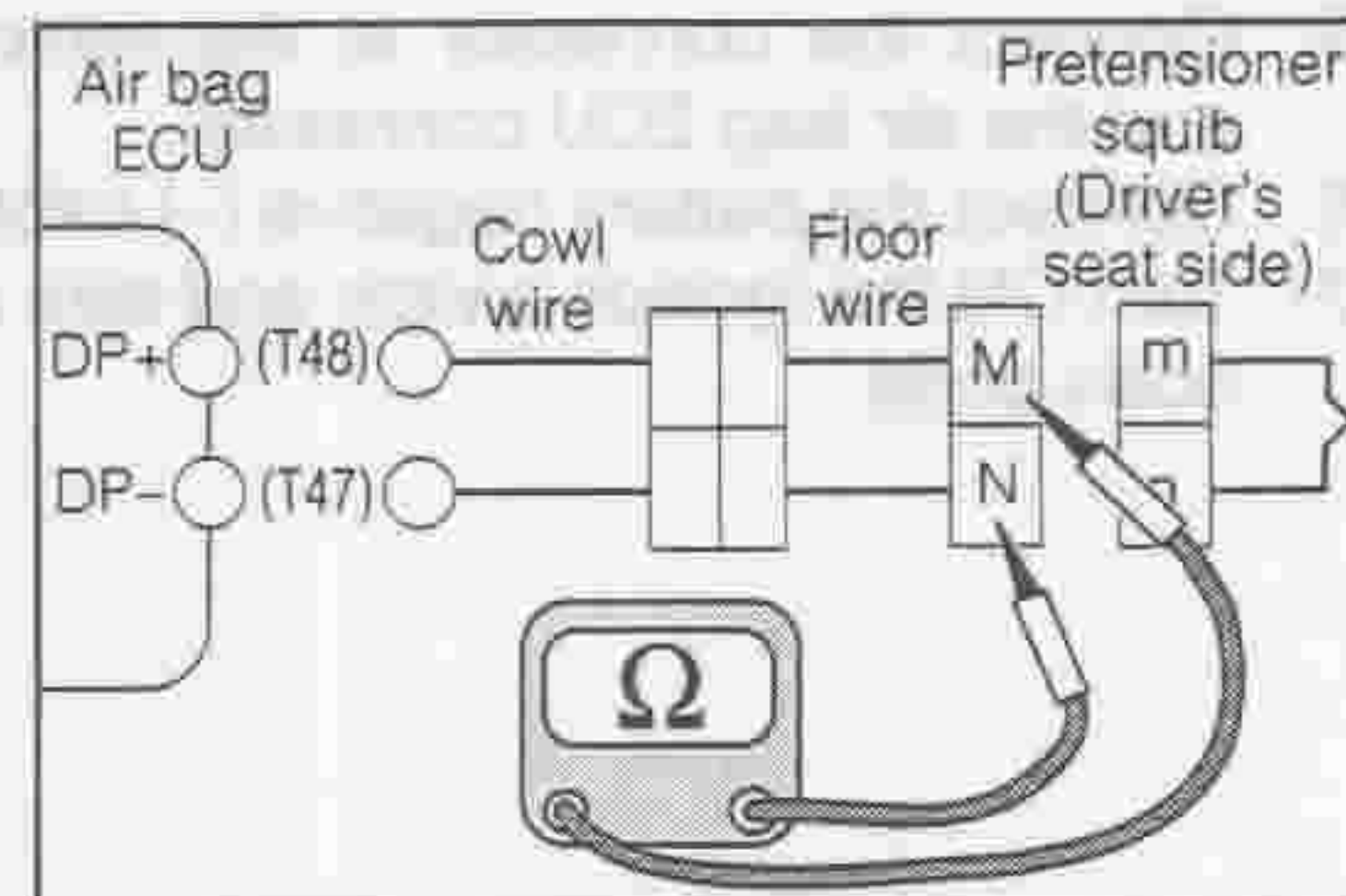
LBE00393-00366



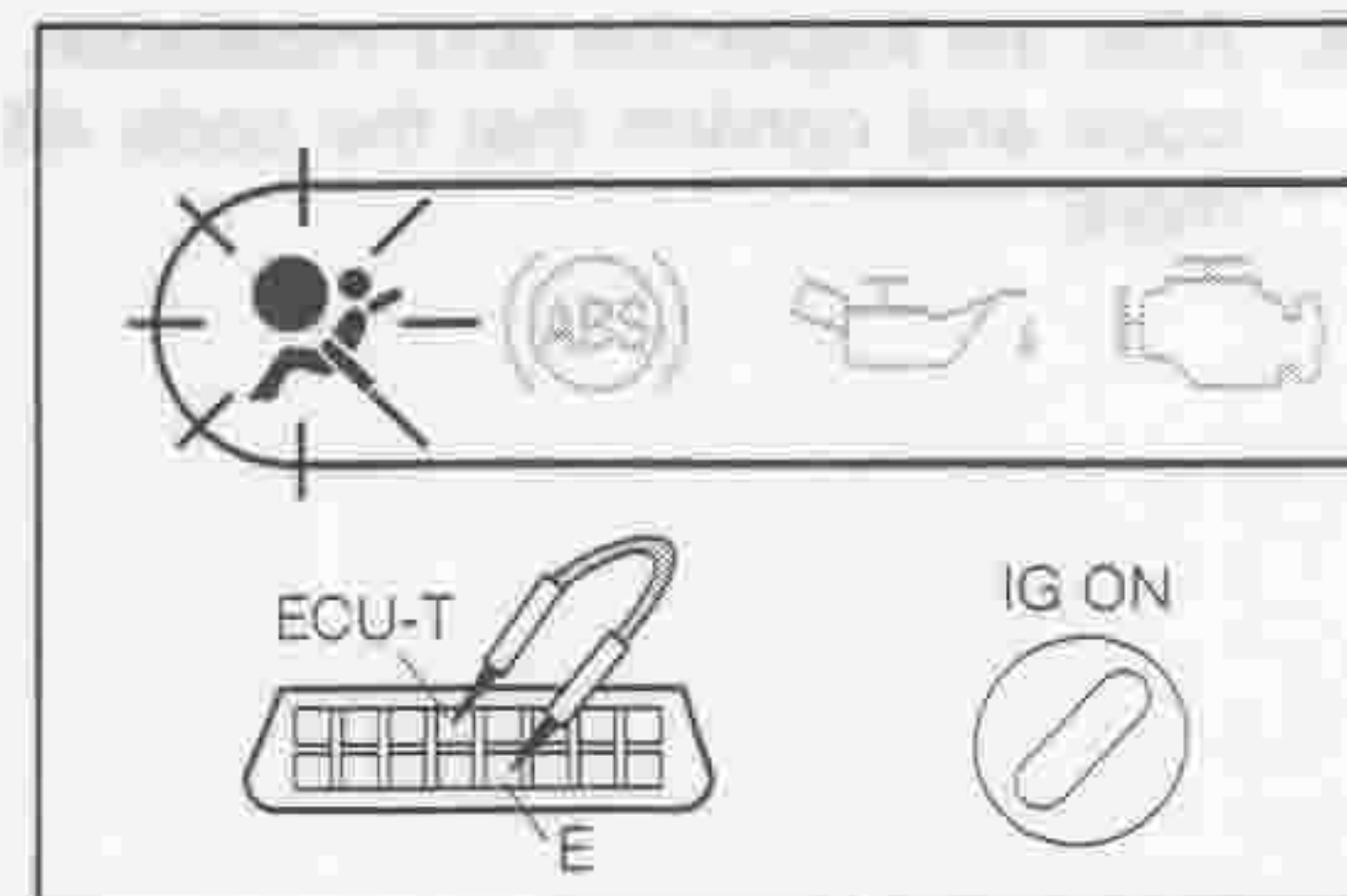
LBE00394-00367



LBE00395-00368



LBE00396-00369

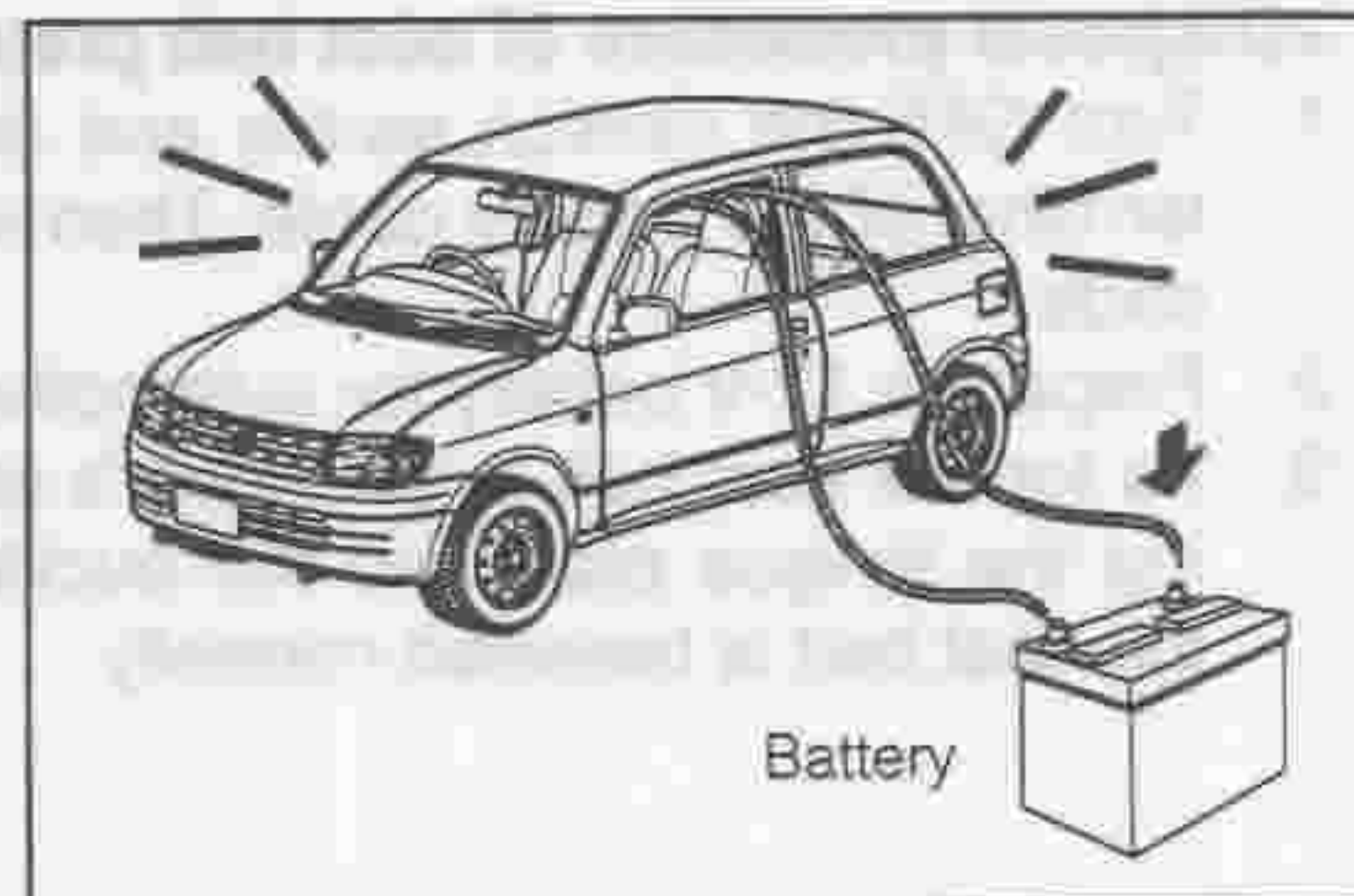


LBE00397-00370

8. Disconnect the wires that have been shorted. Connect one wire to the positive terminal of the battery; the other wire to the negative terminal of the battery, thereby deploying the air bag.

NOTE:

- There is no need for identifying the polarity of the battery.



LBE00442-00413

WARNING:

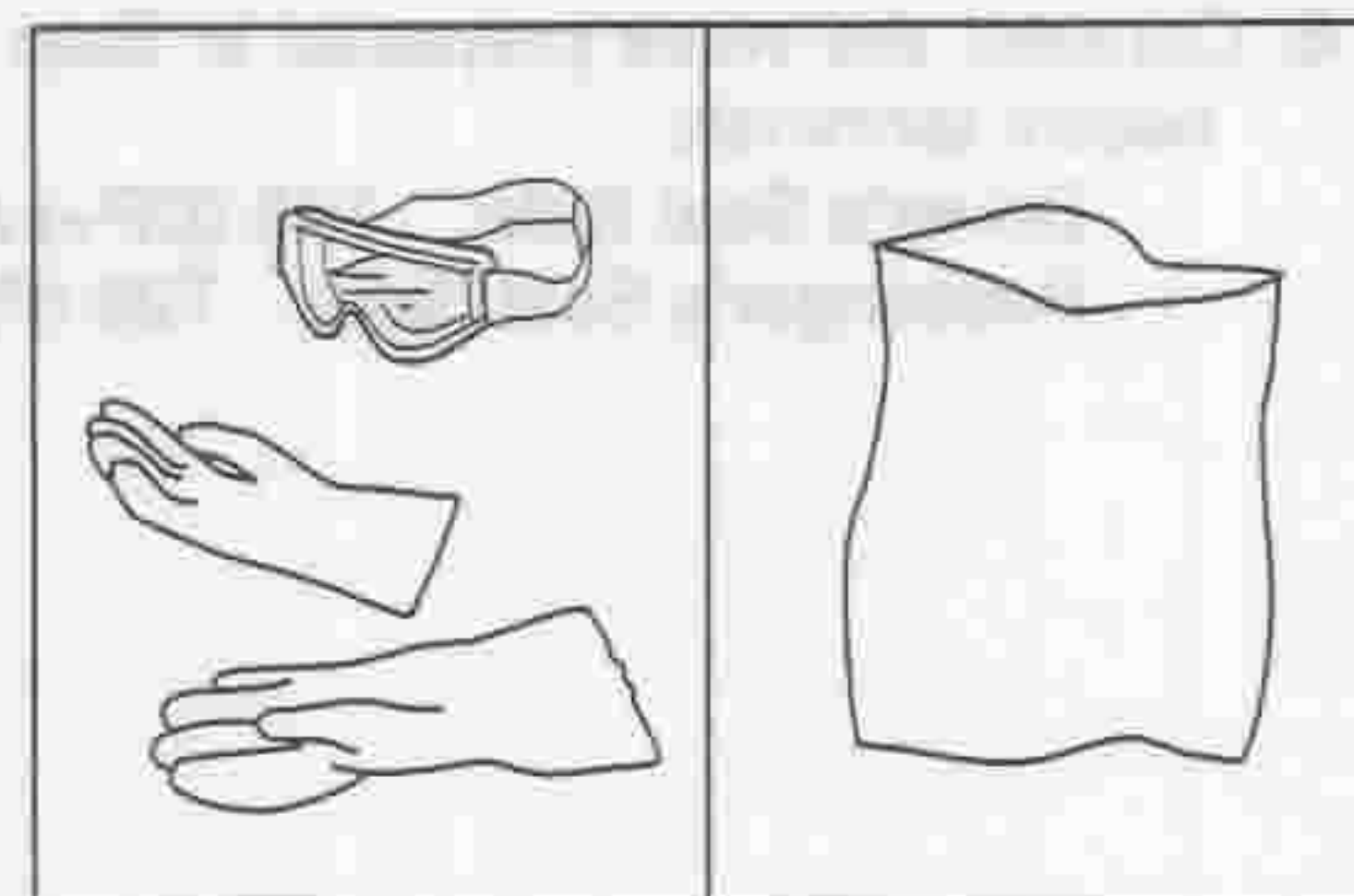
- Immediately after the deployment of the air bag, the vehicle interior is filled with gas. Therefore, start the operation after gas is diffused.
- Since the metal section of the gas generator is extremely hot, leave it at least for thirty minutes to allow it to cool naturally.

LBE00443-00000

9. After the operated seat belt pretensioner cools down completely, it shall be sealed in a bag to be disposed.

WARNING:

- Be sure to wear protective goggles and gloves during this operation. After completion of the operation, gargle and wash your hands. If you feel any abnormality in your respiratory organs, follow the instruction of a doctor.



LBE00444-00414

DISPOSAL OF AIR BAG AND SEAT BELT PRETENSIONER

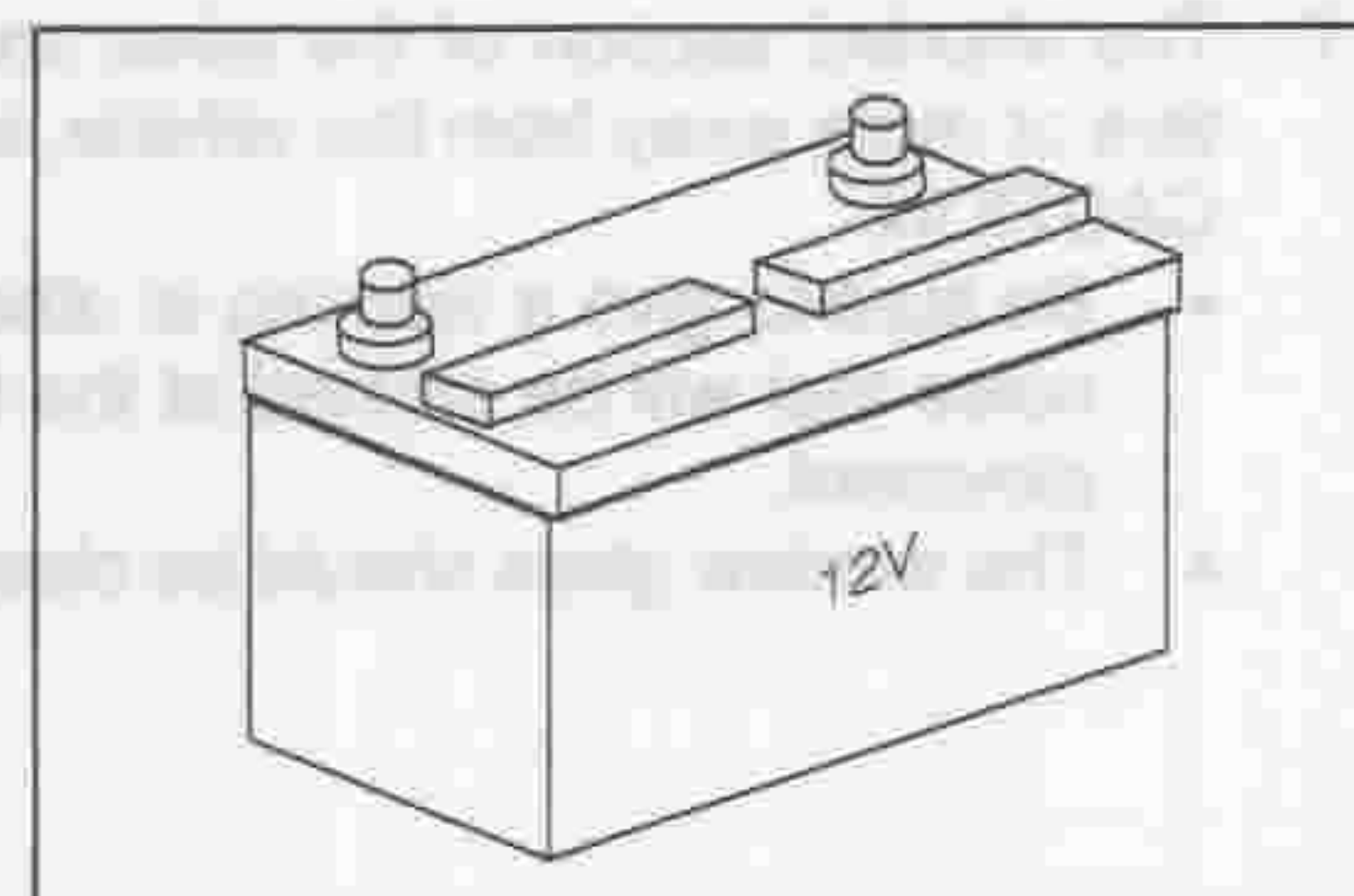
CAUTION:

- It is the best to dispose the air bag and seat belt pretensioner when they are installed in the vehicle. However, if it is unavoidable to perform the pre-treatment for disposal for the unit itself, follow the procedure given below.

NOTE:

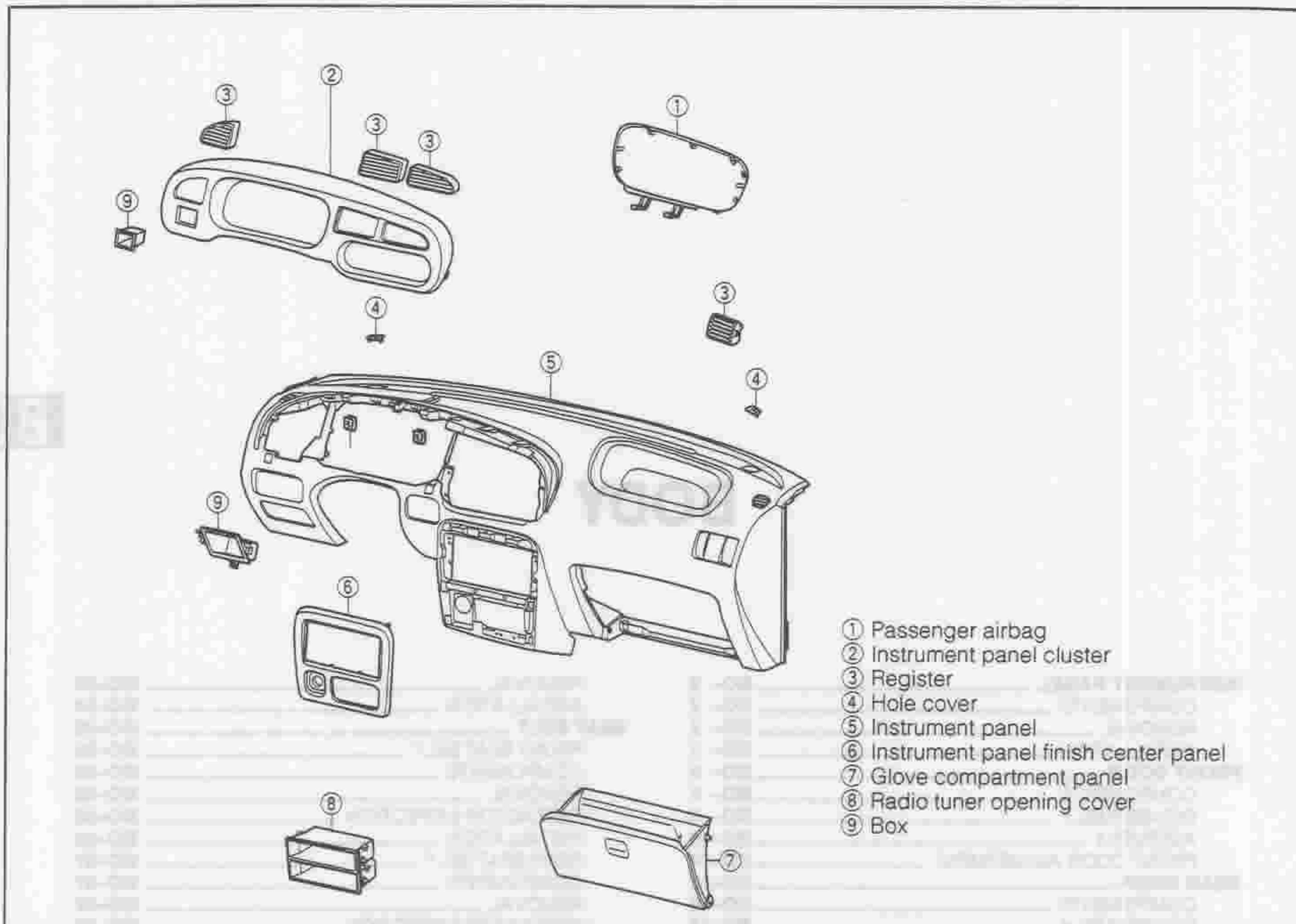
- Items to be prepared.

1. 12-V battery for automotive use



LBE00445-00415

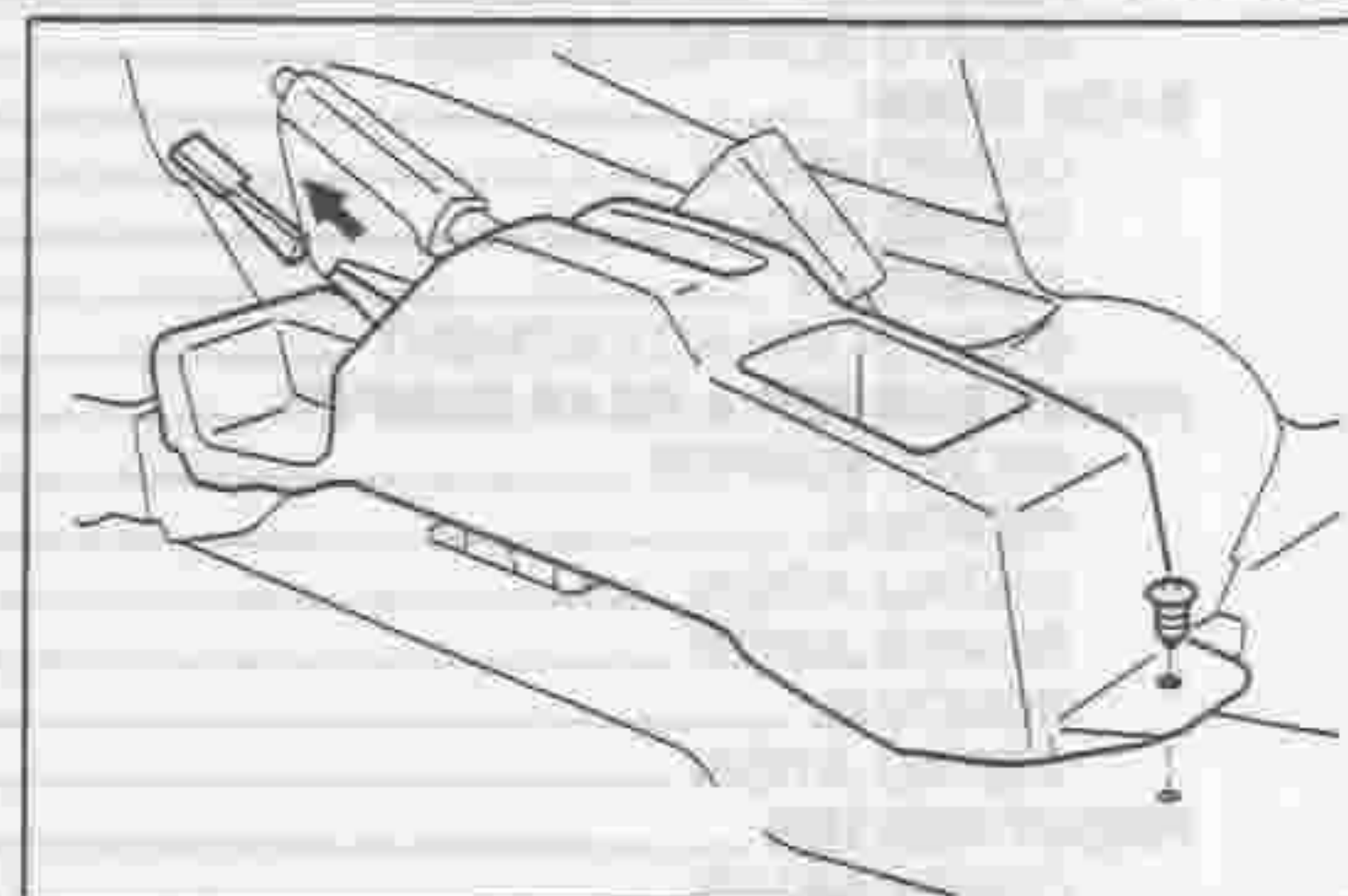
INSTRUMENT PANEL COMPONENTS



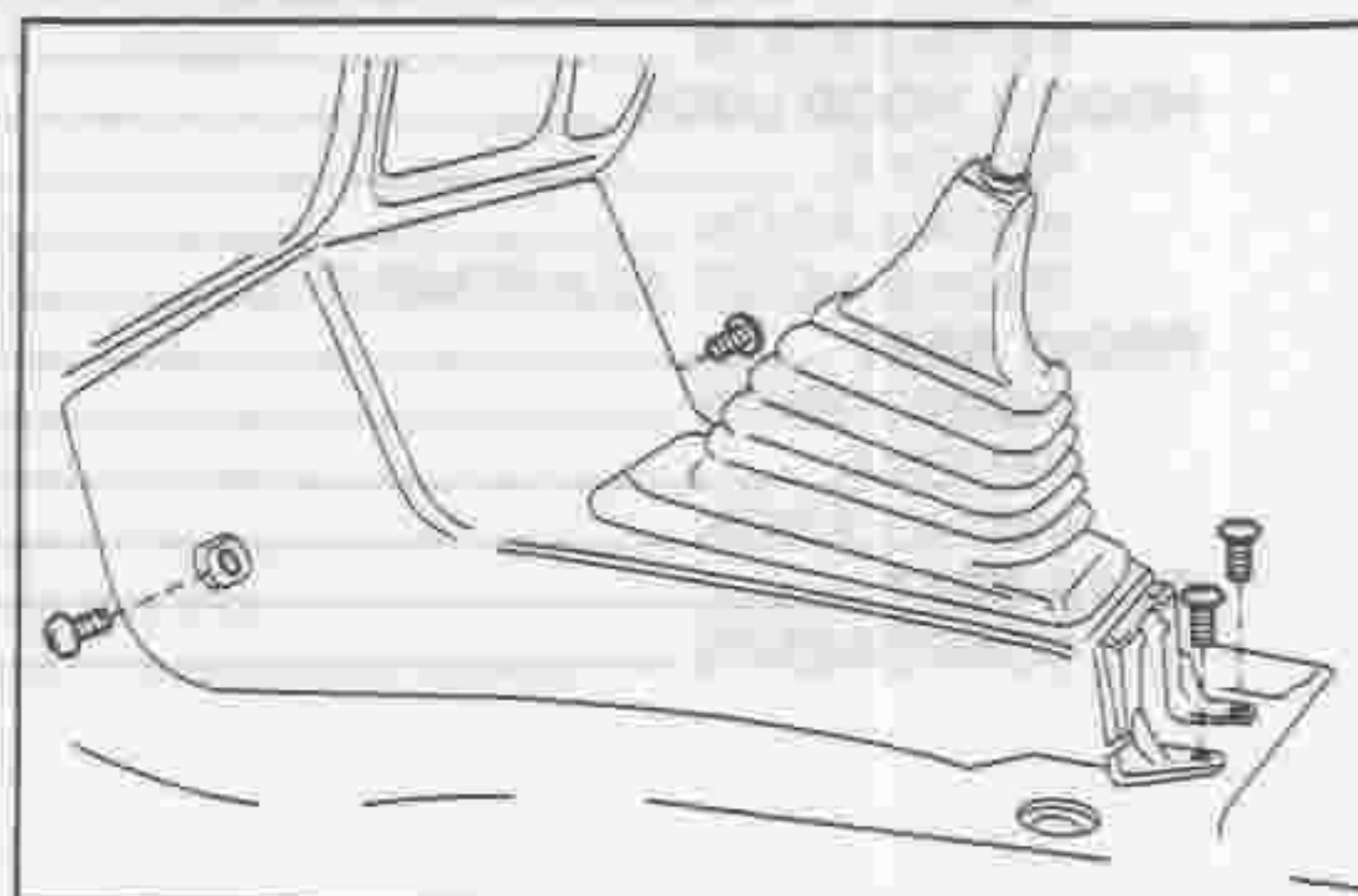
LBO00002-00001

REMOVAL

1. Remove the negative (-) terminal of the battery.
2. Remove the rear console box.
 - (1) Remove the back door opening control lever knob (if so equipped).
 - (2) Remove the rear console box from the console panel by removing the screw.
3. Removal of front console panel
 - (1) Remove the shift lever knob.
 - (2) Remove the console panel by removing the screws.



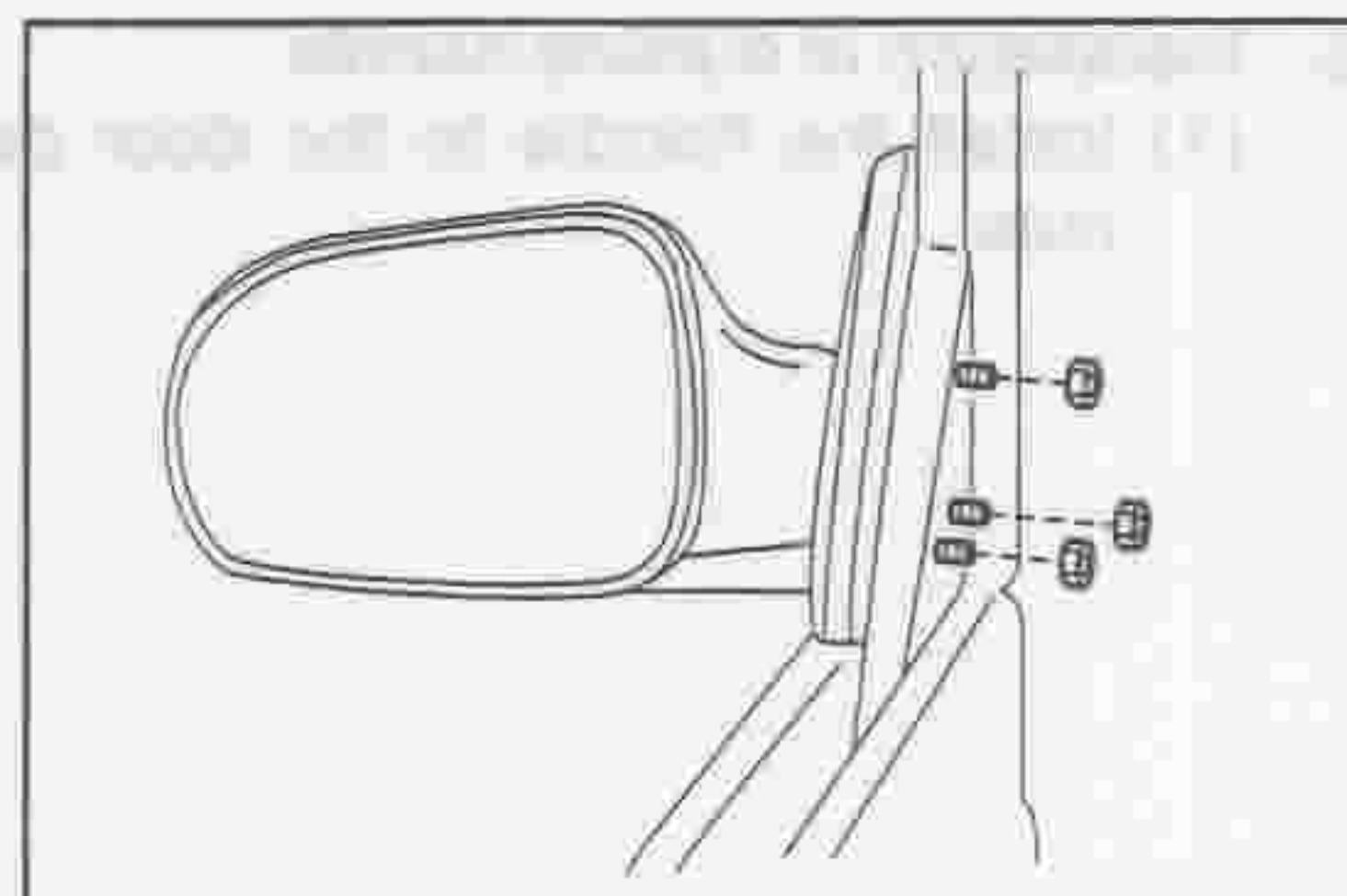
LBO00003-00002



LBO00004-00003

8. Installation of door mirror (motor driven type)

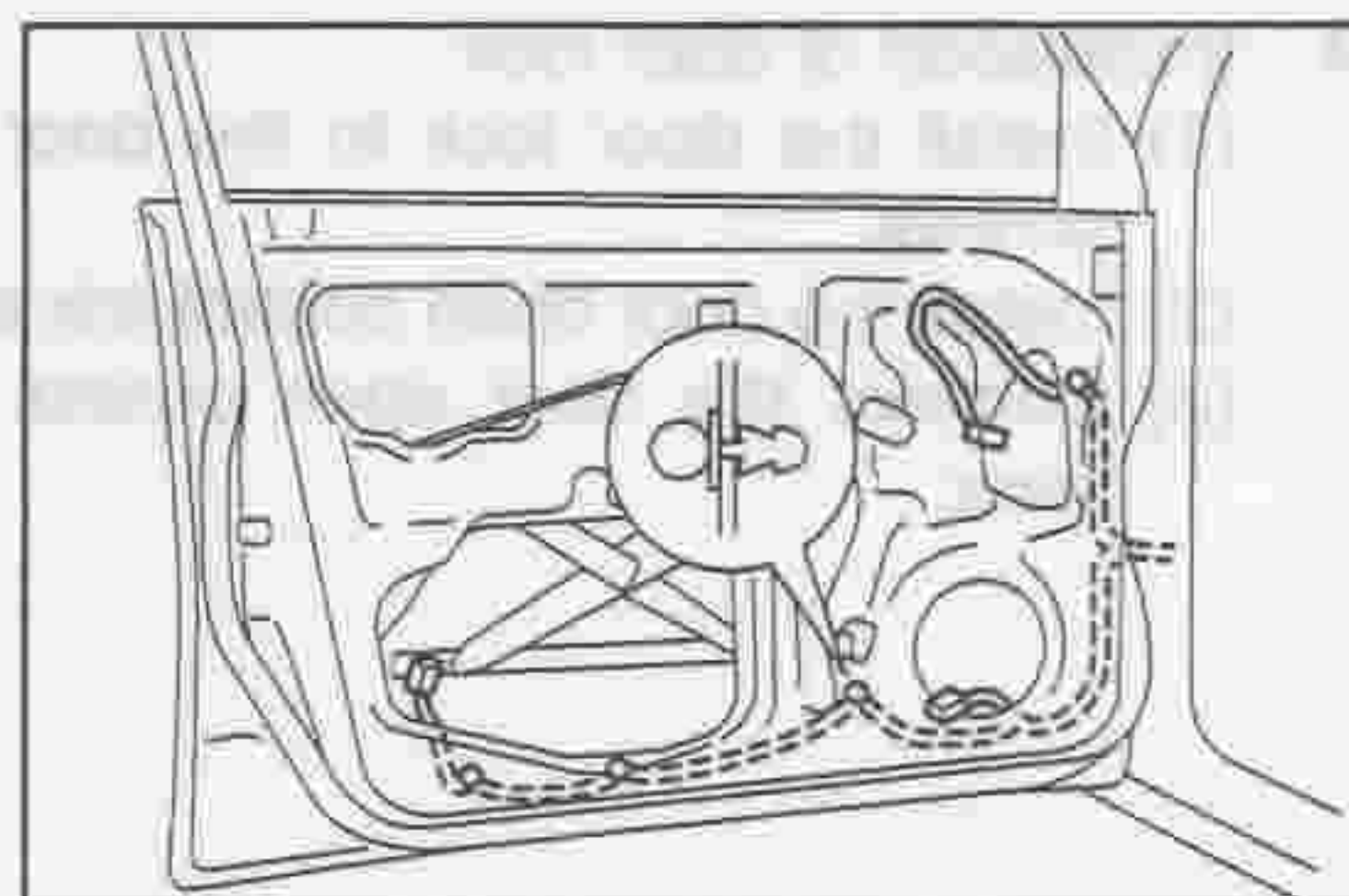
- (1) Pass the mirror harness through the door panel.
- (2) Install the mirror to the door panel with the three set nuts.



LBO00045-00043

9. Installation of door harness

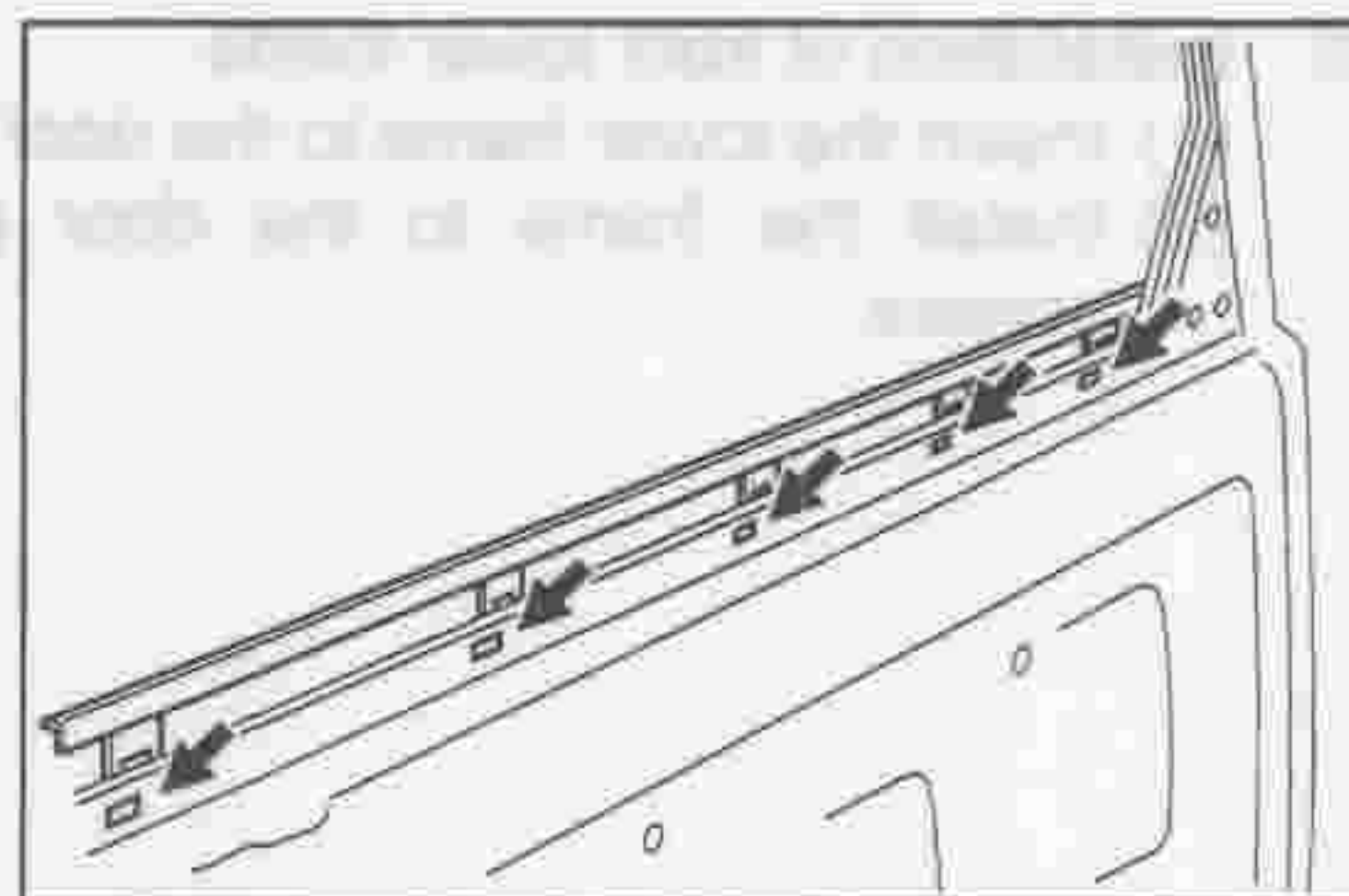
- (1) Insert the harness clamp through the clamp hole of the door panel.
- (2) Connect wiring for the power lock and door mirror connector.



LBO00046-00044

10. Installation of inner weatherstrip

- (1) Insert the clip to the clip hole securely.



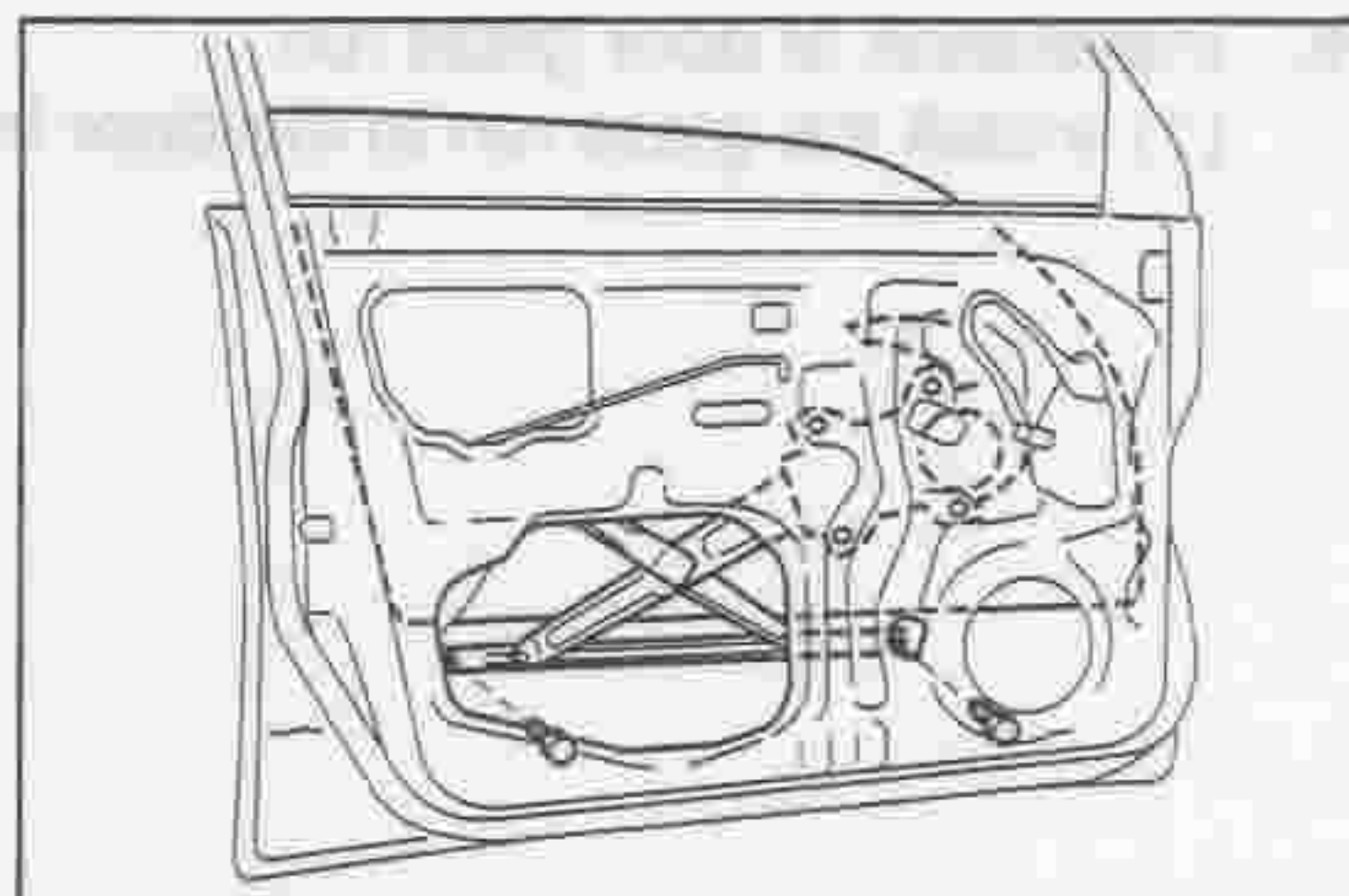
LBO00047-00045

11. Installation of door glass

- (1) Using the regulator handle or the power window switch, turn the regulator in such a way that the glass set bolt may come to the service hole position.
- (2) Install the glass to the regulator with the two set bolts.

NOTE:

- Move the glass up and down several times to ensure that the glass moves smoothly.
- Make sure that the regulator and glass will not interfere with the wire harness or connector.



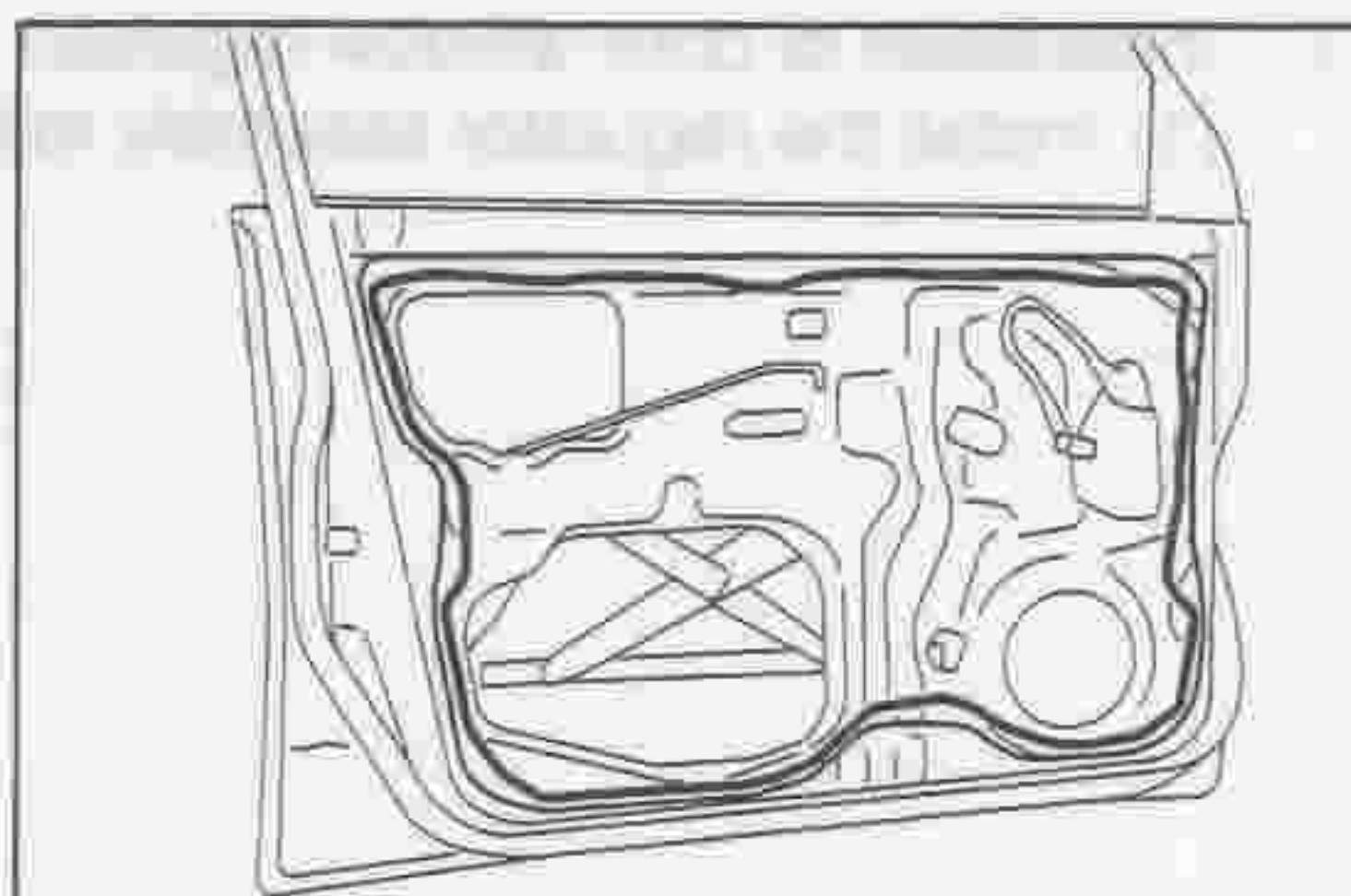
LBO00048-00046

12. Installation of service hole cover

- (1) Affix butyl tape along the groove of the door panel.
- (2) Push lightly the entire periphery of the service hole cover so that the service hole cover may contact with the butyl tape without any gap.

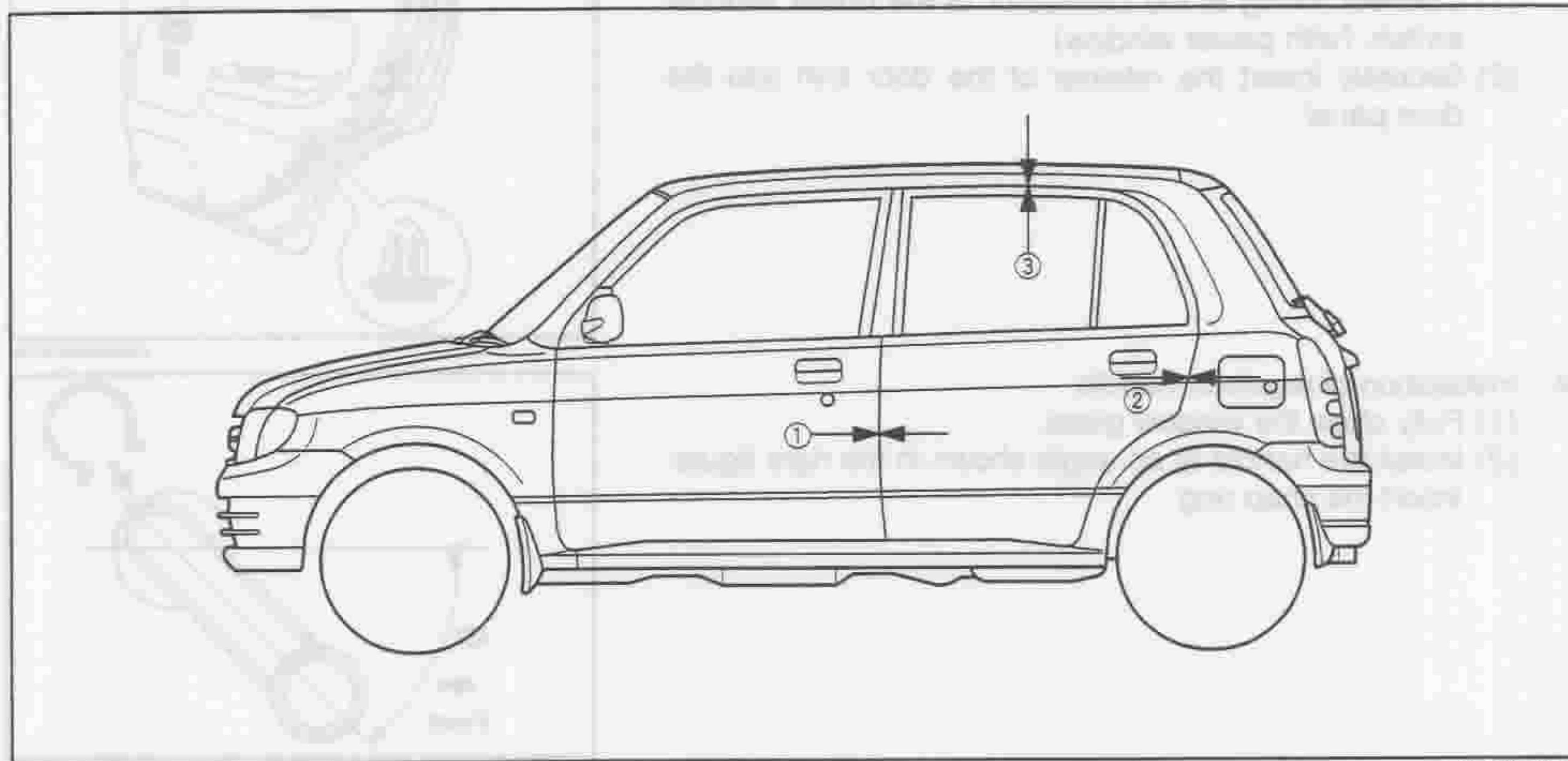
NOTE:

- When affixing the butyl tape, never stretch it.
- Never reuse the service hole cover if it has ruptured.
- Be sure to affix the butyl tape in such a way that water flows into the drain without fail.
- When affixing the tape, be careful not to make wrinkles.



LBO00049-00047

REAR DOOR ADJUSTMENT



LBO00089-00087

1. Door gap adjustment in fore-and-aft direction

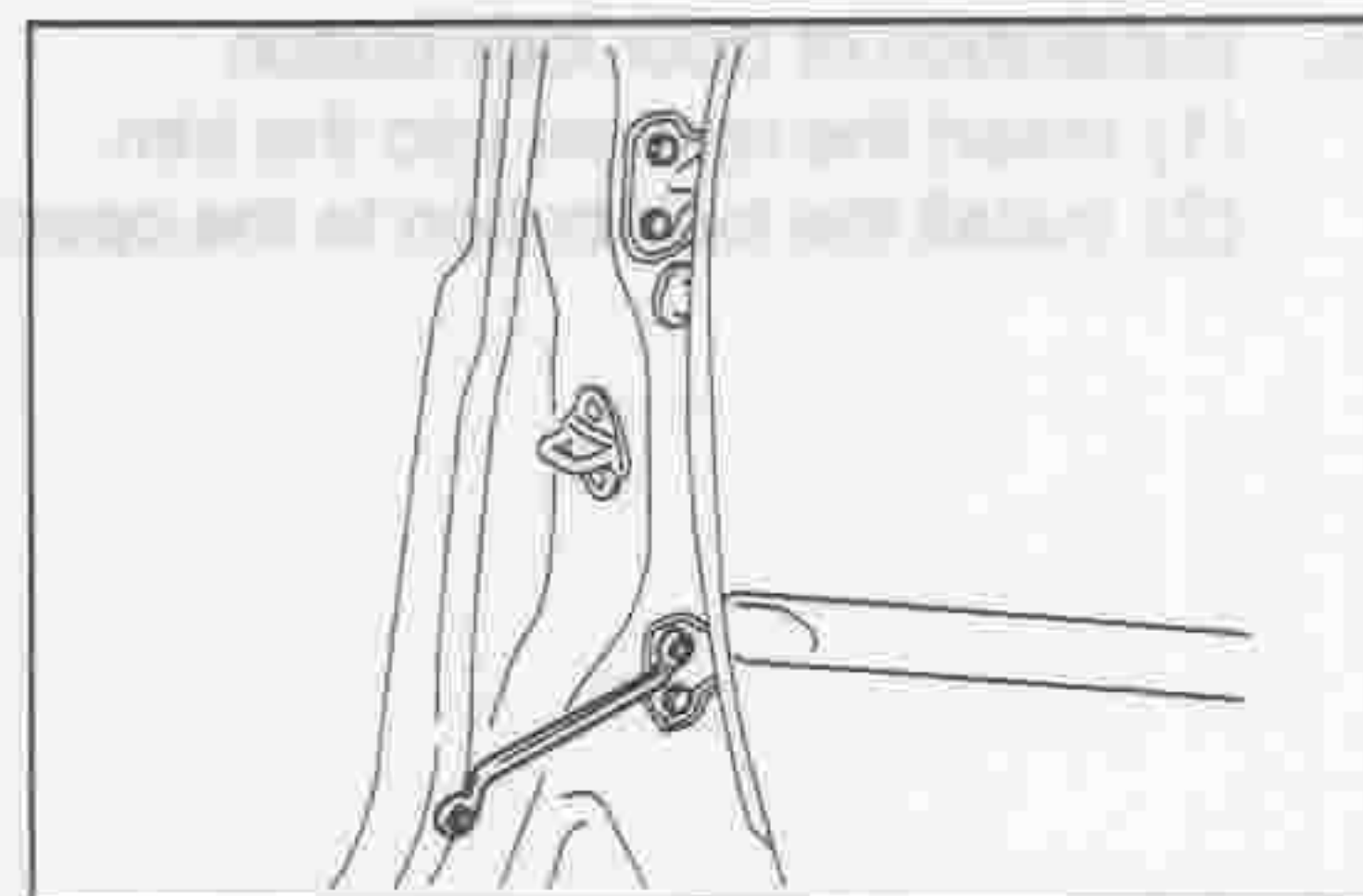
(1) Loosen the hinge bolt at the body side (pillar side) and perform the adjustment.

① Front door × rear door

Specified Value of Gap: 4.2 - 7.2 mm

② Side outer panel × rear door frame

Specified Value of Gap: 3.8 - 6.8 mm



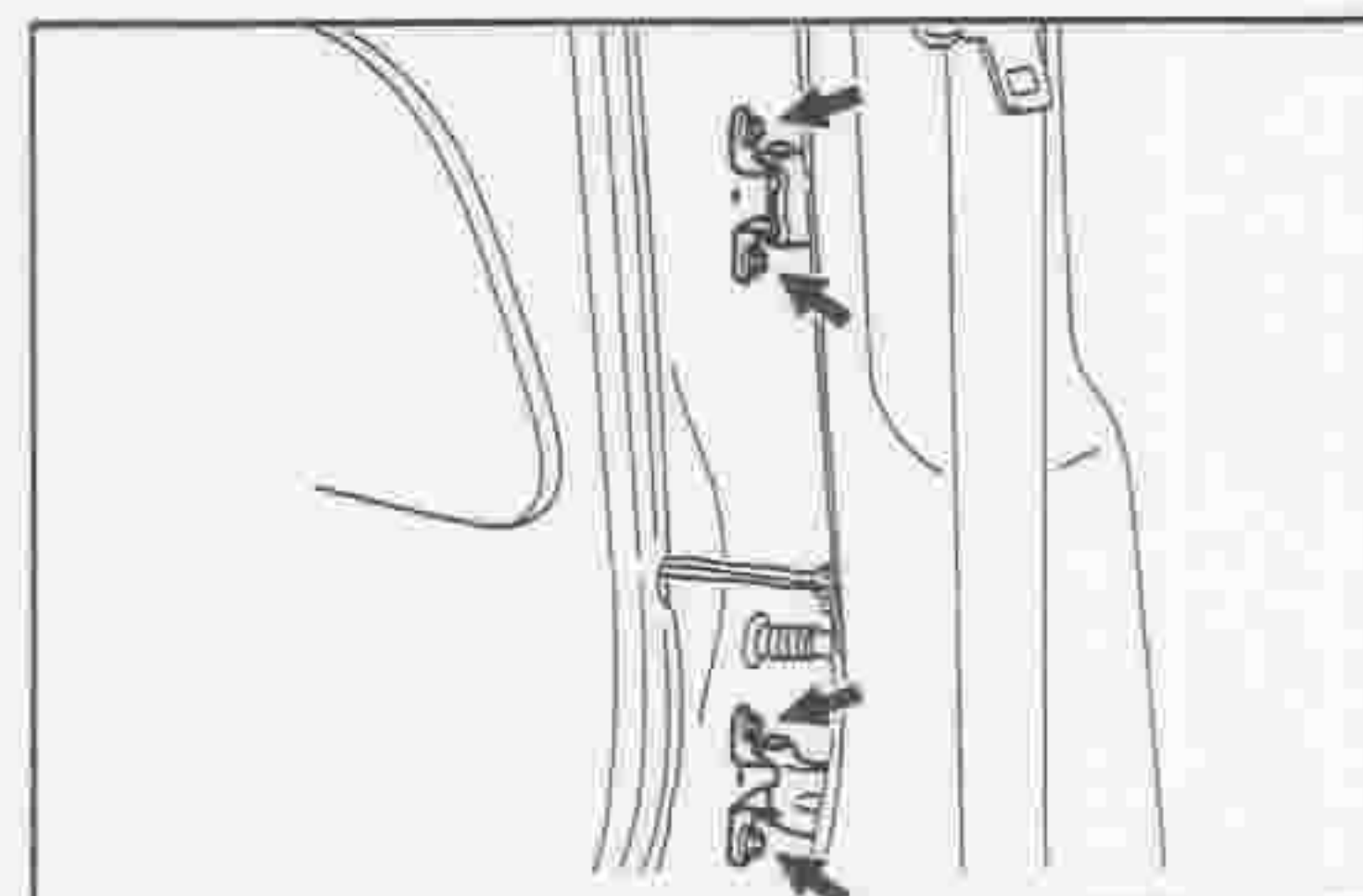
LBO00090-00088

2. Door gap adjustment in up-and-down direction

(1) Loosen the hinge bolt at the door side and perform the adjustment.

③ Side outer panel × door frame

Specified Value of Gap: 3.0 - 6.0 mm



LBO00091-00089

3. Door lock striker adjustment

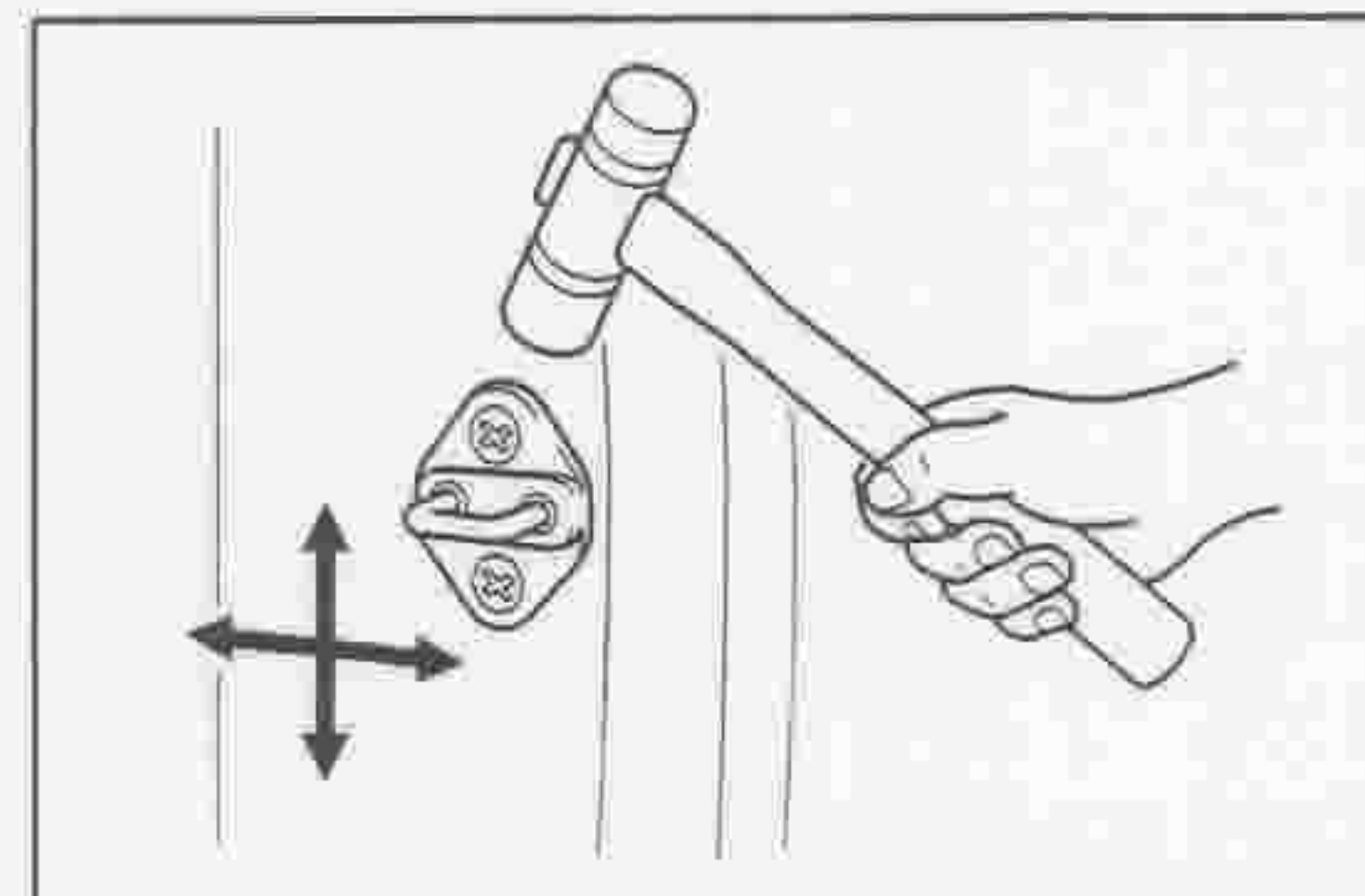
(1) Check to see if the door installation and lock linkage adjustment have been performed correctly.

(2) Lightly loosen the striker attaching bolt.

(3) Adjust the striker position by tapping the striker with a plastic hammer.

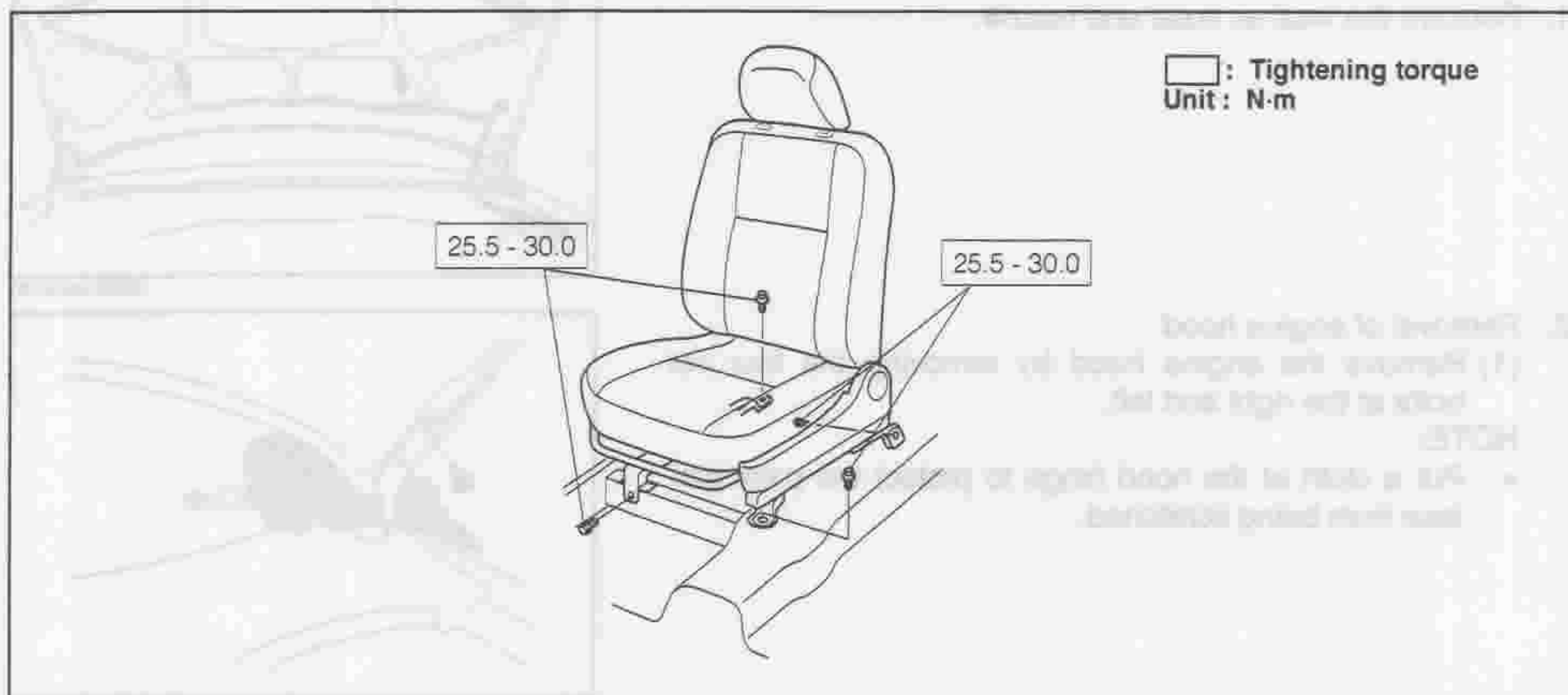
NOTE:

- Affix protective tape to the paint surface to protect the surface from being scratched.



LBO00092-00090

FRONT SEAT COMPONENTS



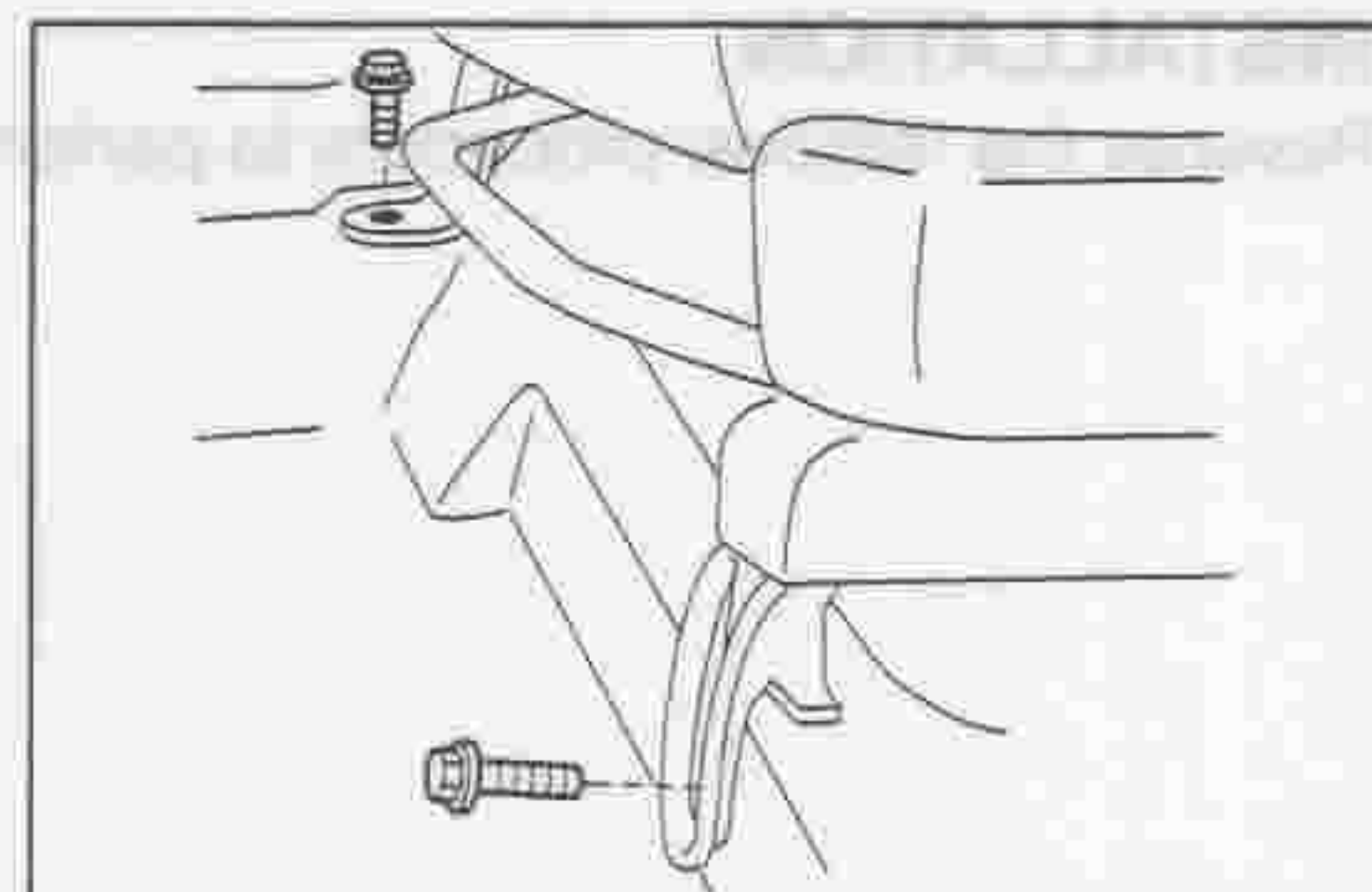
LBO00129-00125

REMOVAL

1. Remove the negative (-) terminal of the battery.
2. Disconnect the seat belt warning lamp connector (if so equipped).

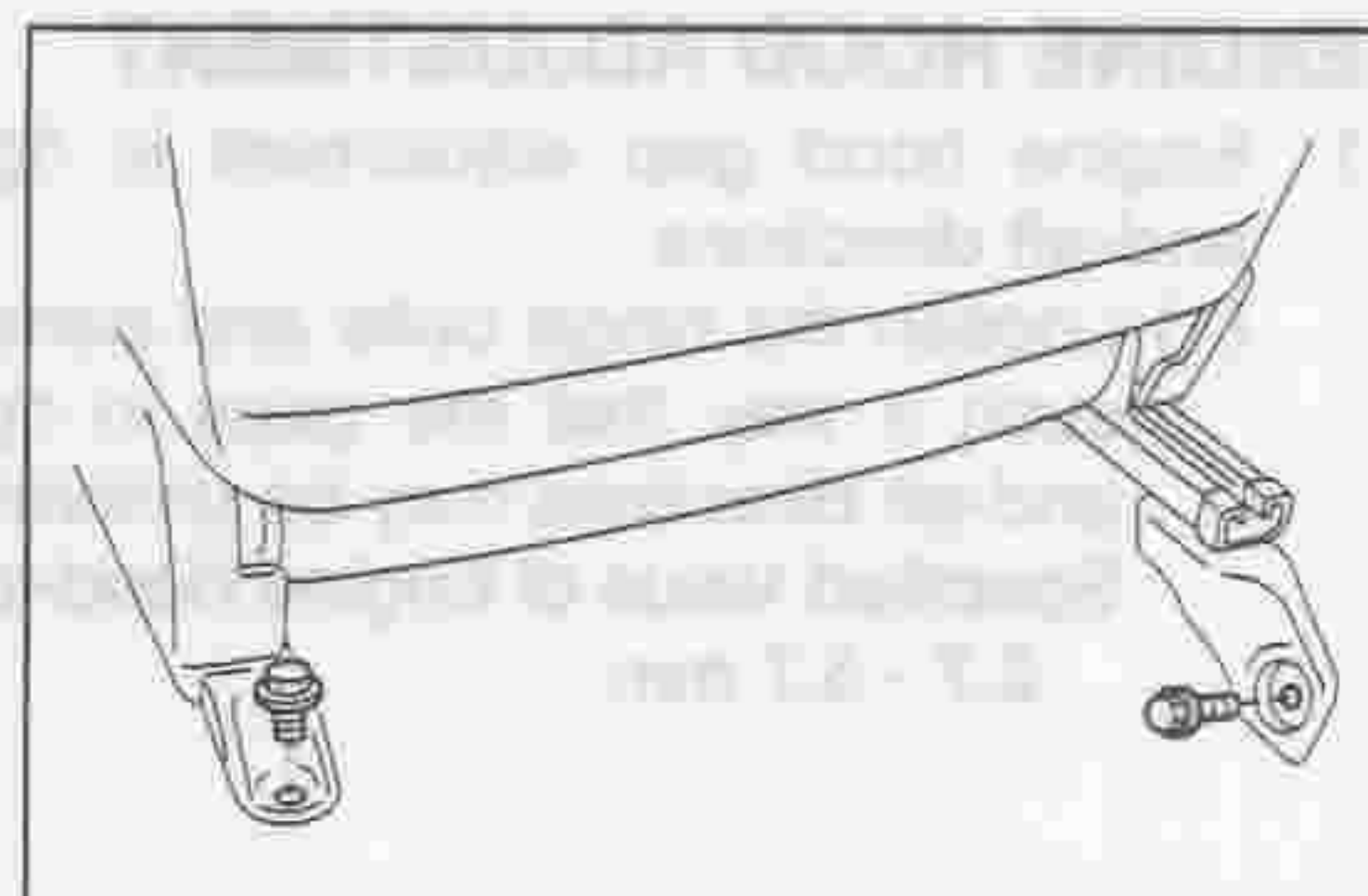
CAUTION:

- Start this operation three minutes after disconnecting the battery terminal.



LBO00130-00126

3. Removal of seat assembly
 - (1) Move the seat to its foremost position and remove the two set bolts.
 - (2) Move the seat to its rearmost position and remove the two set bolts.



LBO00131-00127

INSTALLATION

Reverse the removal procedure to perform the installation.

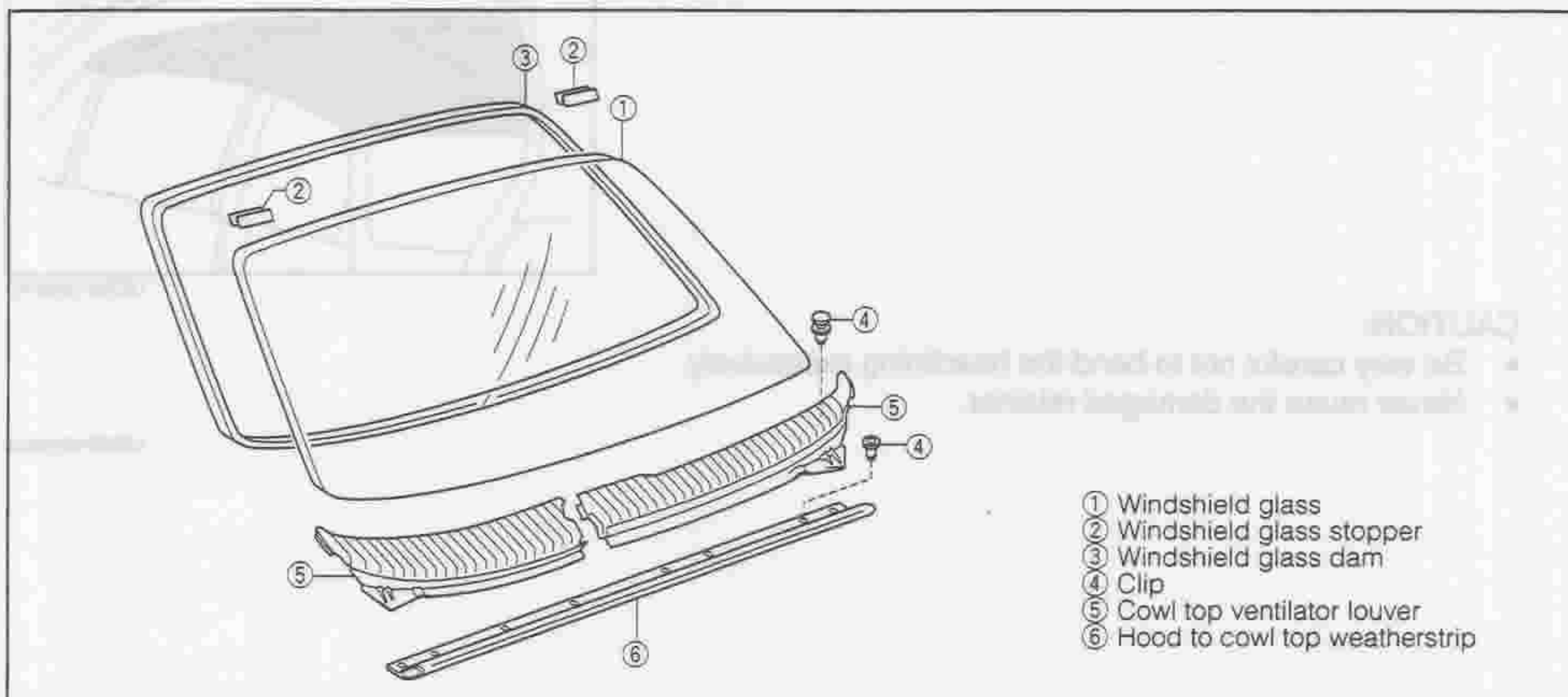
1. Tighten the seat set bolts.
 Tightening Torque: 25.0 - 30.0 N·m

NOTE:

- Make sure that the seat slides smoothly and that the seat adjuster is locked securely.

LBO00132-00000

FRONT WINDSHIELD COMPONENTS

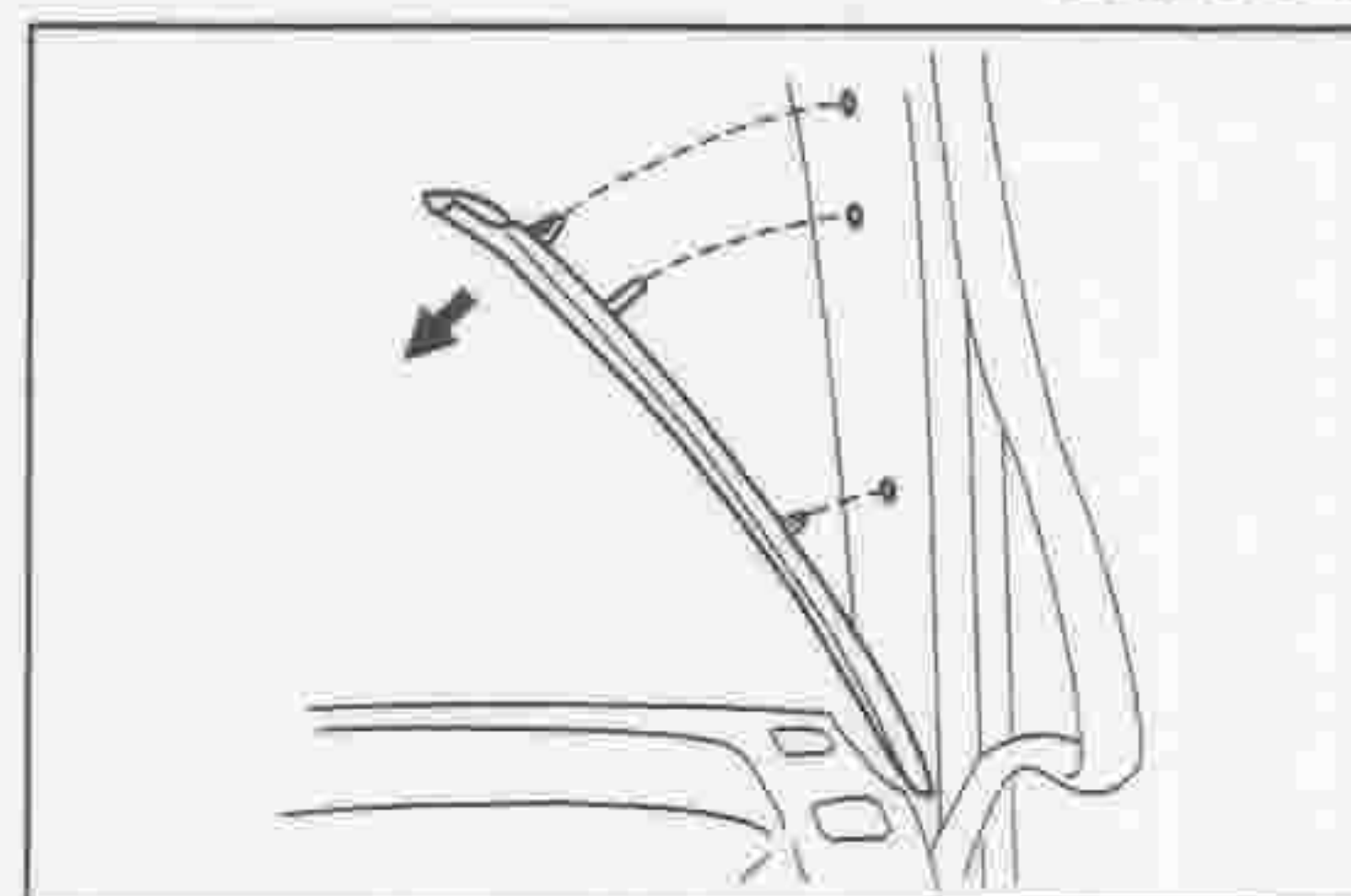


LBO00160-00152

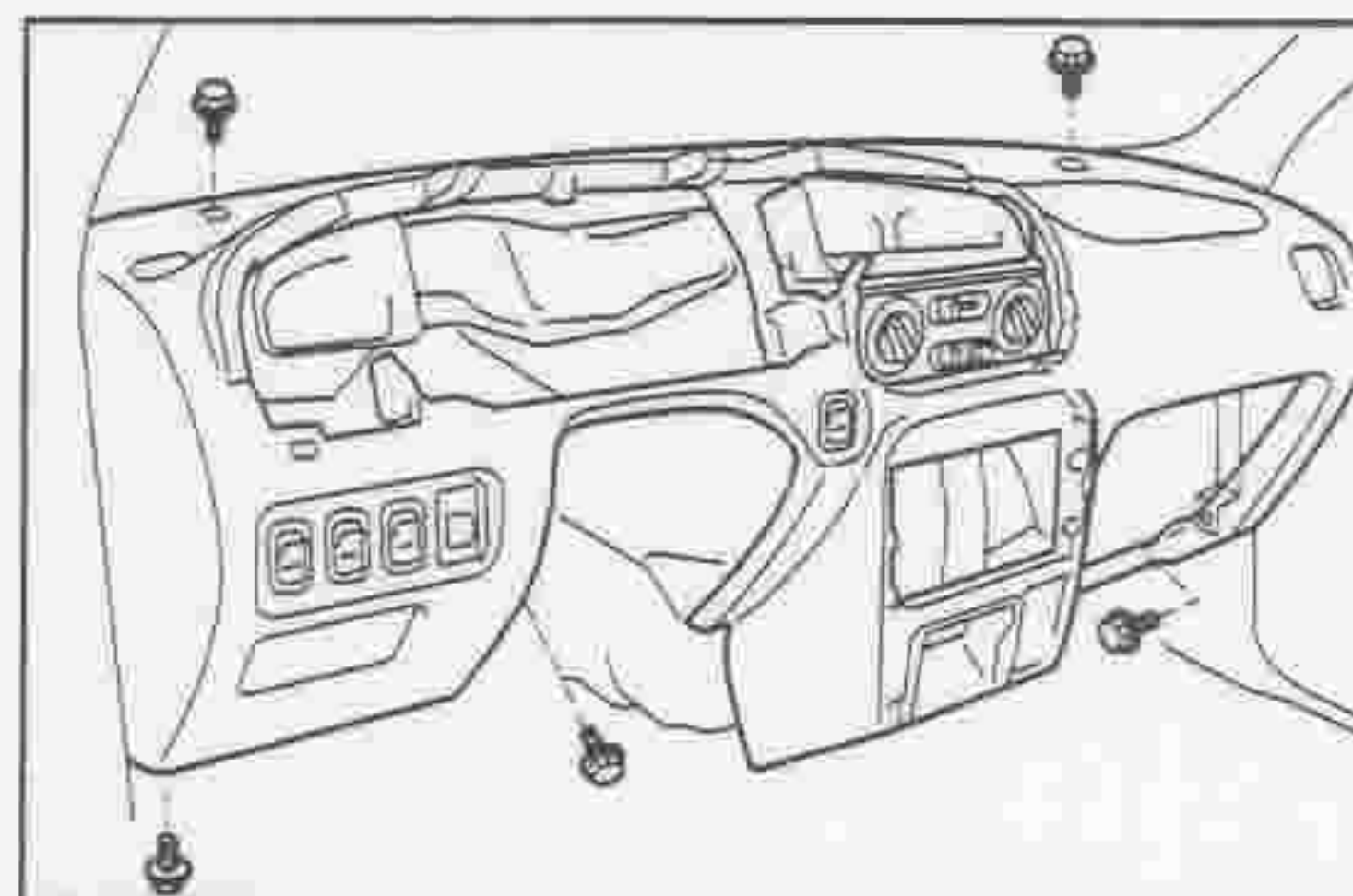
REMOVAL

1. Remove the following parts given below.
 - (1) Inner rear-view mirror and room lamp
 - (2) Sun visor
 - (3) Assist grip
2. Removal of front pillar garnish
 - (1) Remove the pillar garnish from the front pillar.
3. Removal of instrument panel

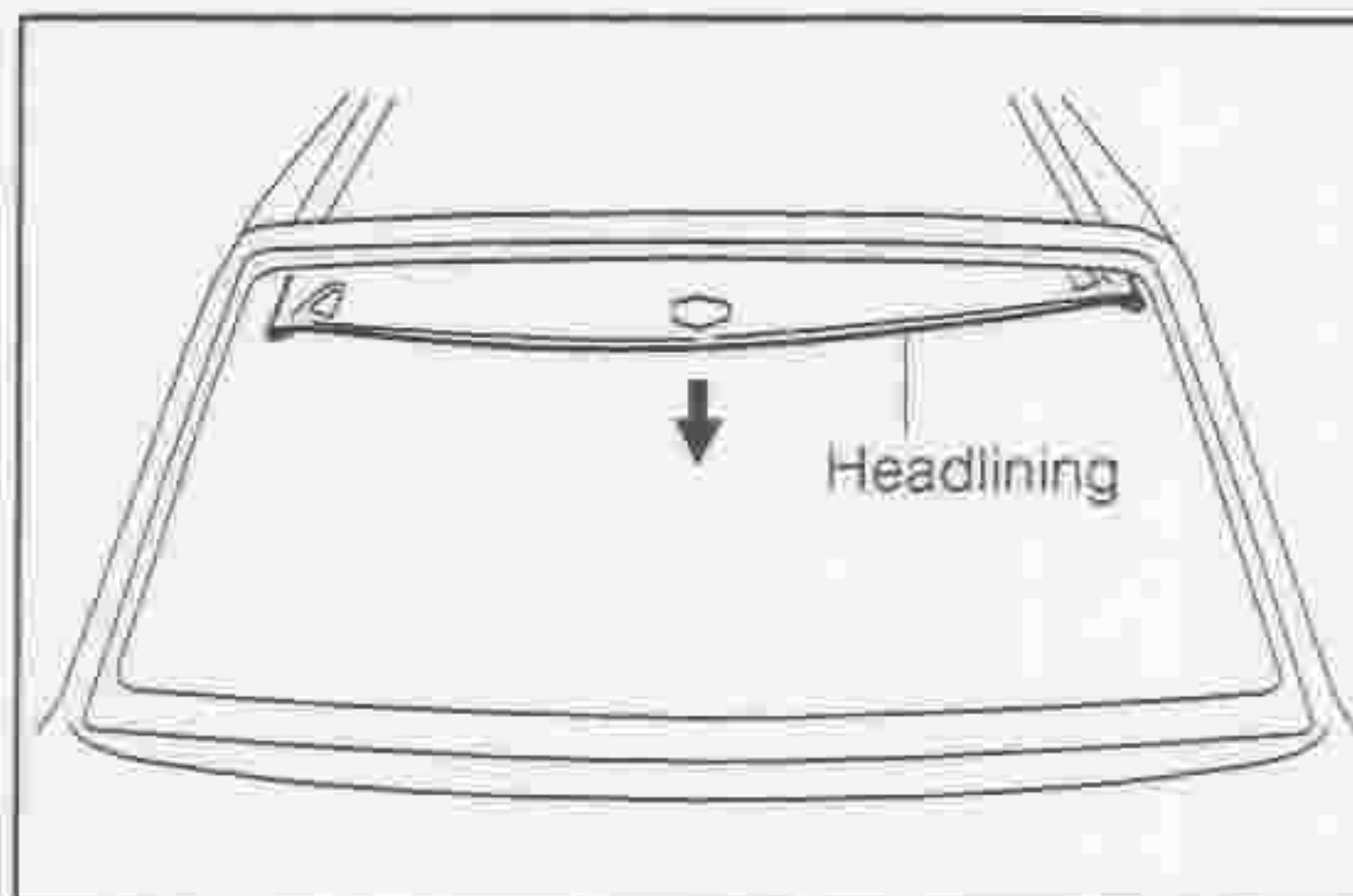
(Refer to the section under "Instrument Panel.")
4. Remove the front section of the roof headlining and move it downward. (To prevent the lining from being damaged)
(Refer to the section under "Trim & Garnish.")



LBO00161-00153

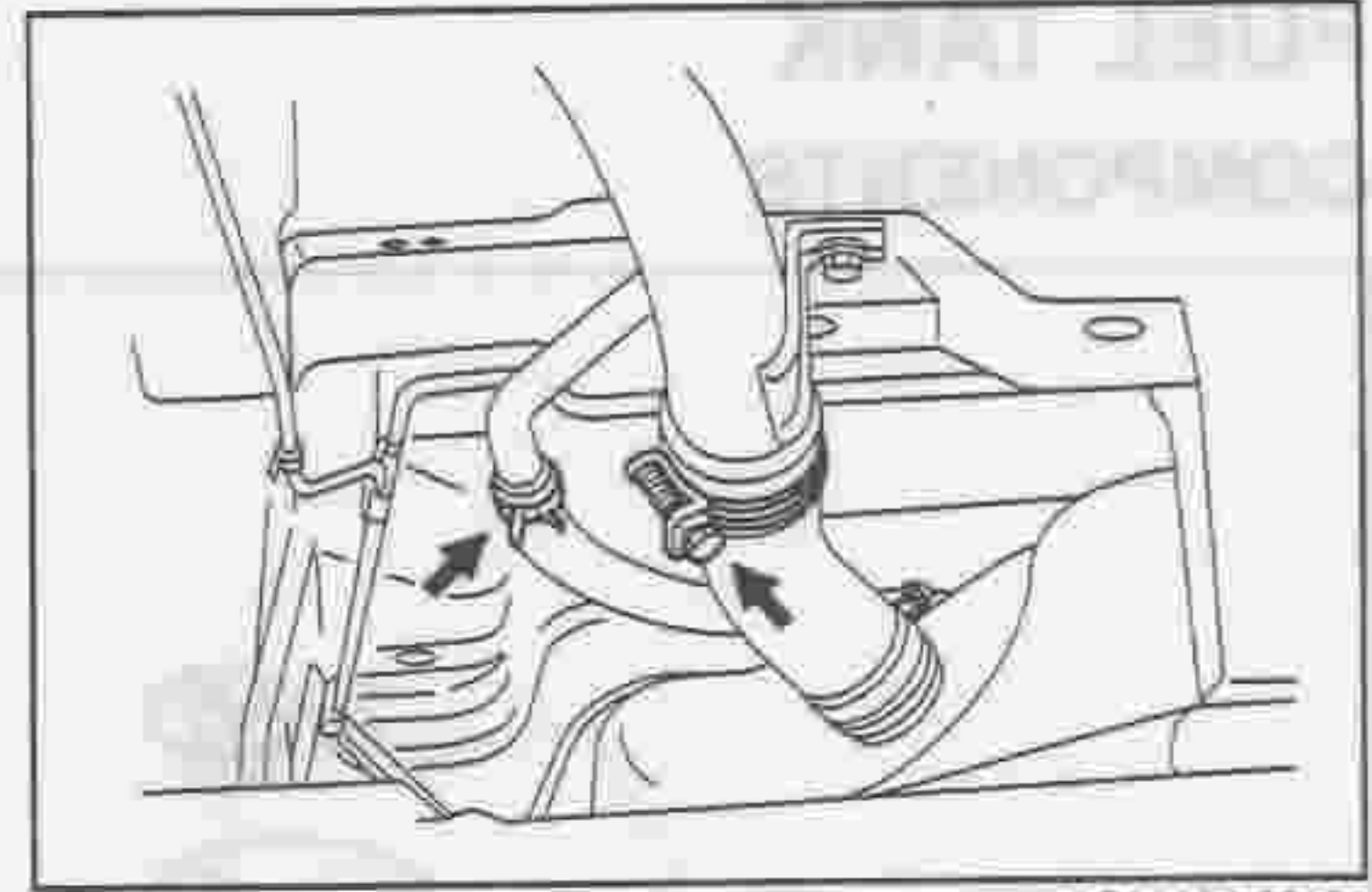


LBO00162-00154

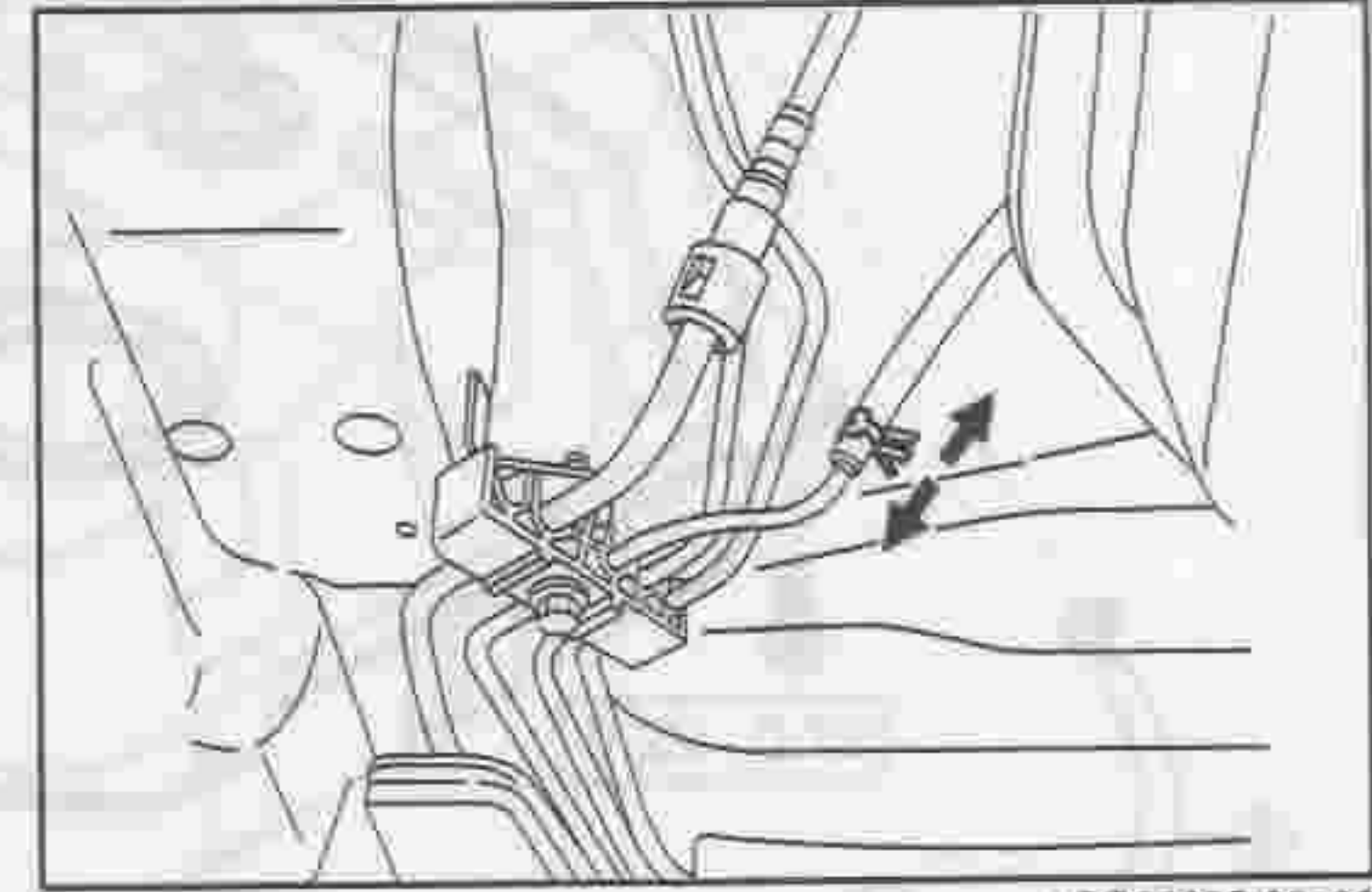


LBO00163-00155

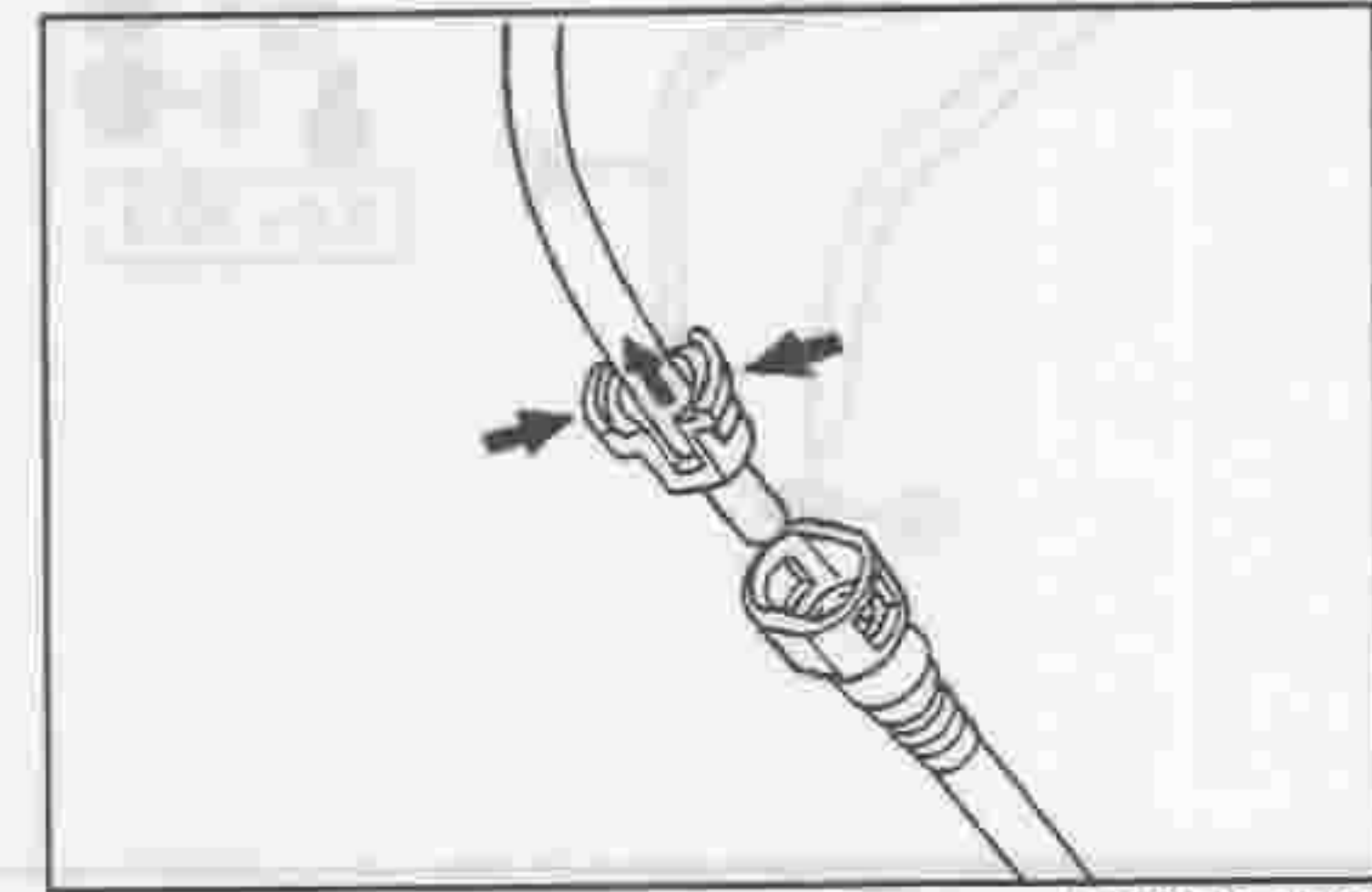
3. Disconnection of inlet hose & breather hose
 - (1) Loosen the hose clamps and disconnect the hoses from the pipes.



4. Disconnection of fuel hose
 - (1) Detach the clip with pliers. Disconnect the hose.

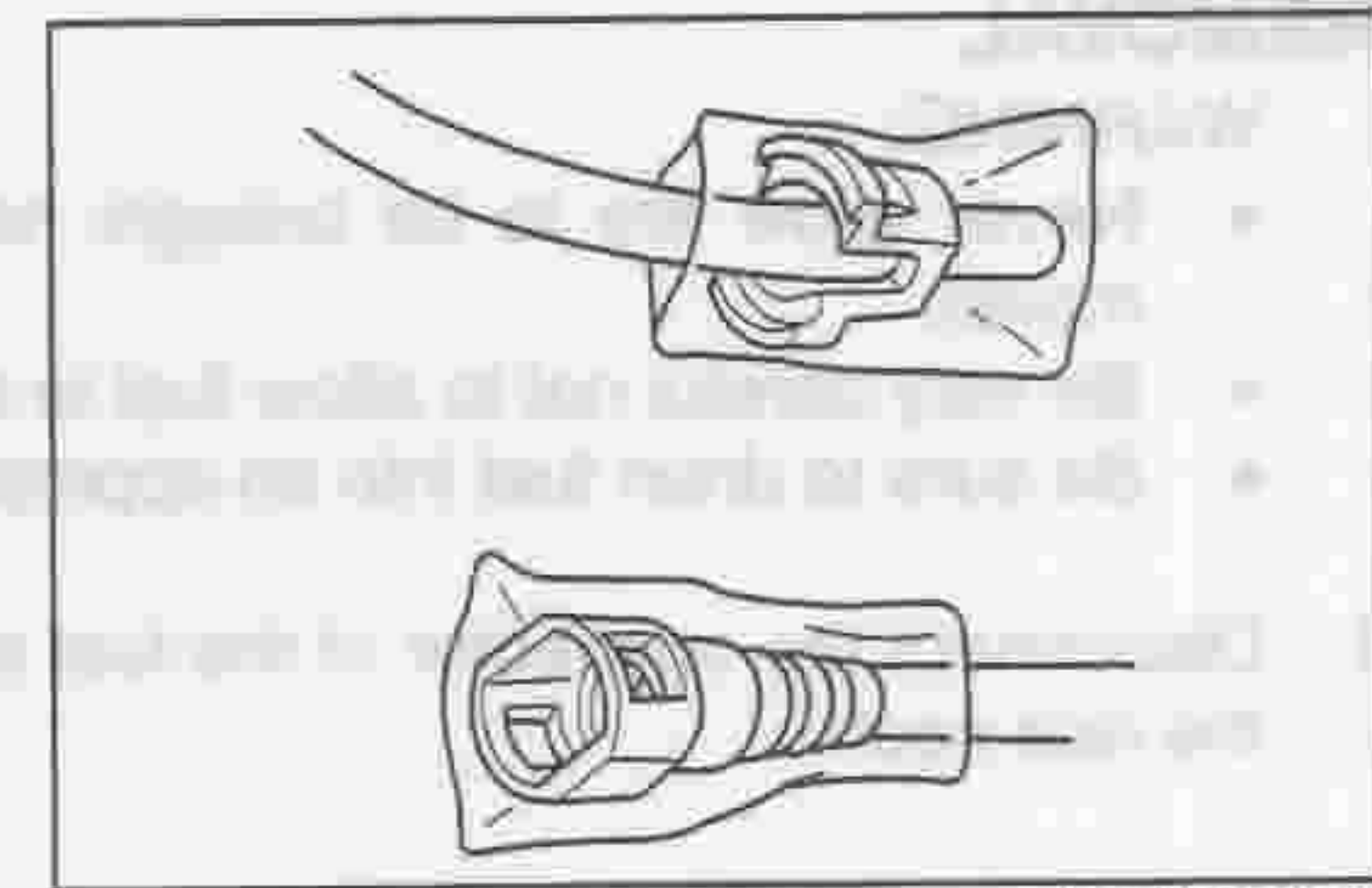


5. Disconnection of quick connector
 - (1) Disconnect the connector, while holding the retainer with fingers.

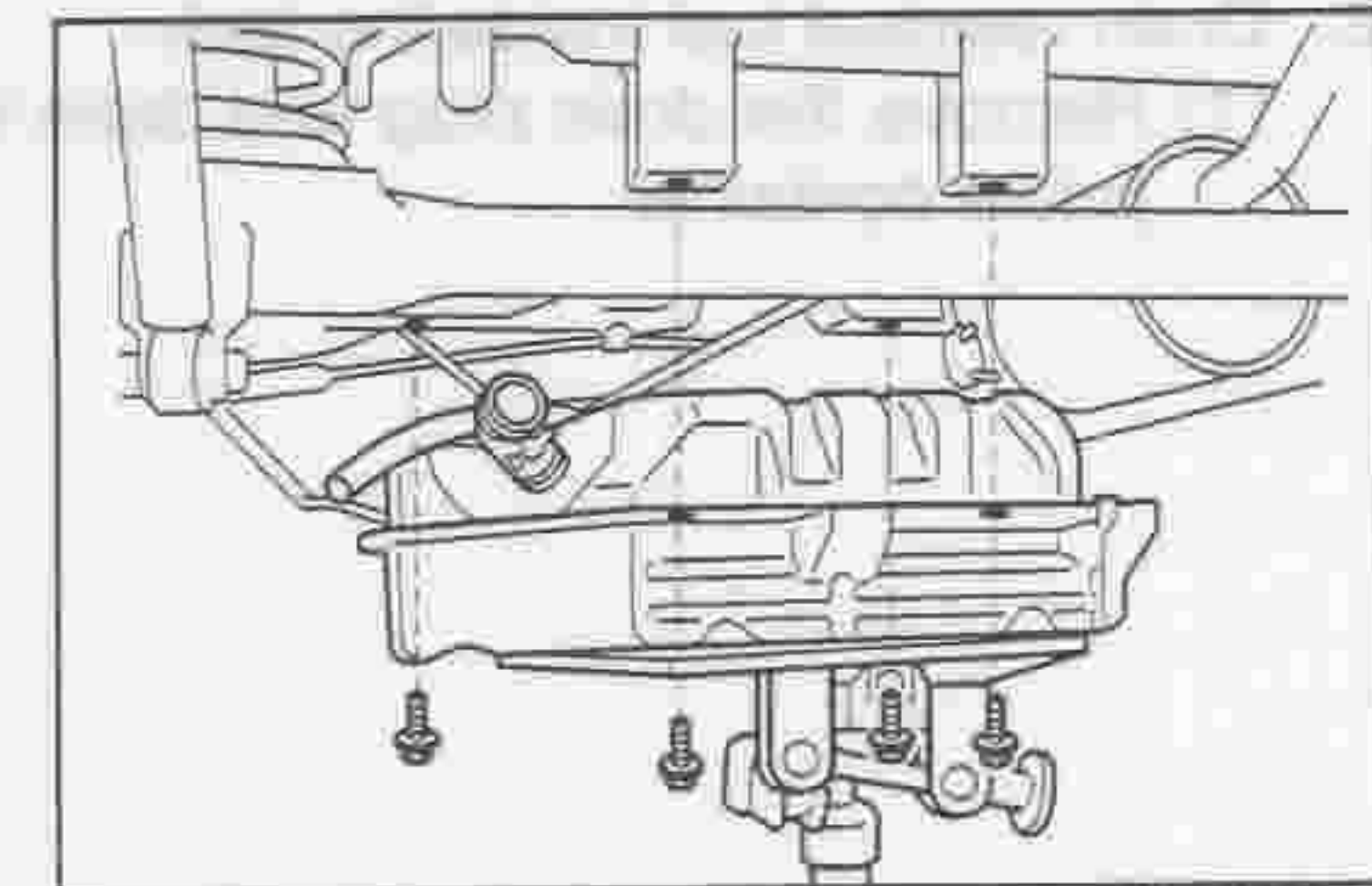


CAUTION:

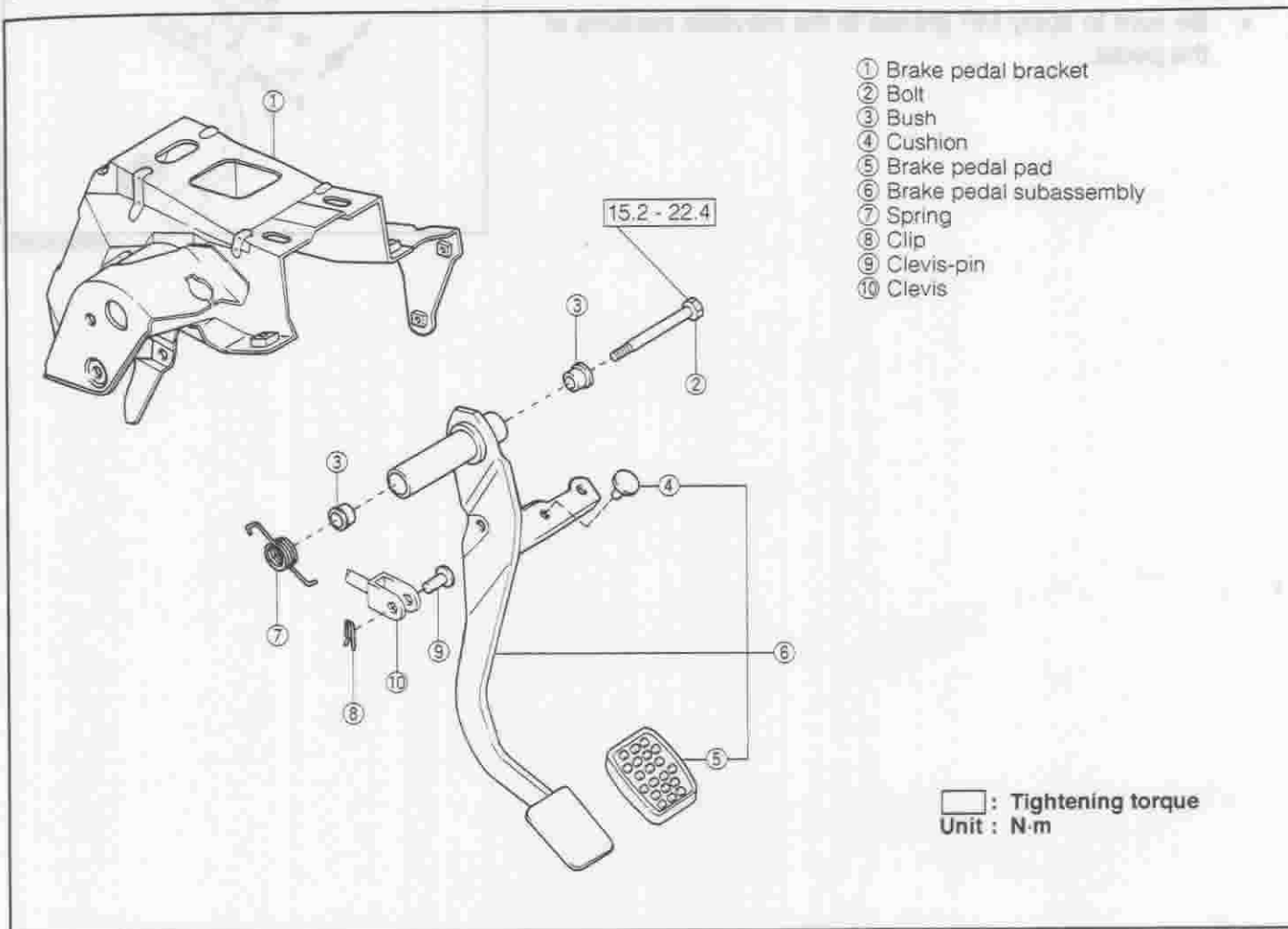
- Never remove the connector by means of a tool.
- Do not remove the retainer from the tube unnecessarily. If the retainer is removed, be sure to use a new quick connector assembly, since it is an un reusable part.
- Be sure to store the disconnected connector and tube in vinyl bags so that those parts may not be exposed scratches and dirt.



6. Removal of fuel tank
 - (1) Remove the four set bolts.



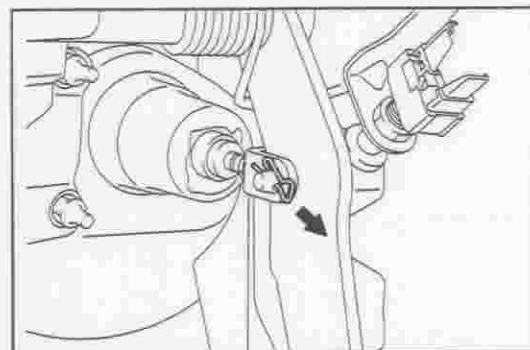
BRAKE PEDAL COMPONENTS



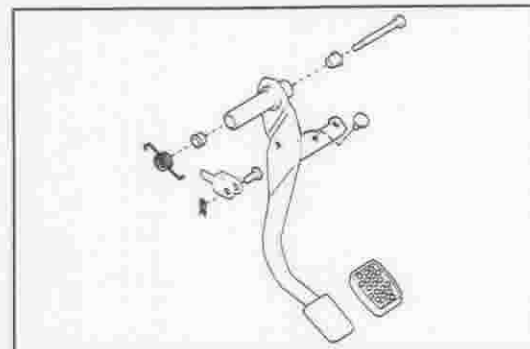
LBR00013-00012

REMOVAL

1. Remove the instrument panel finish lower panel.
2. Disconnect the stop lamp connector.
3. Remove the stop lamp switch.
4. Disconnect the cable from the clutch pedal. (Manual transmission vehicles)
5. Remove the clip and clevis pin from the brake pedal clevis.
6. Remove the brake pedal bracket.
7. Remove the clutch pedal and brake pedal.
8. Remove the return spring.
9. Remove the bush from the pedal.



LBR00014-00013



LBR00015-00014

REPLACEMENT

1. Removal of brake pad
 - (1) Remove the pin hold spring.
 - (2) Remove the two disc pad pins and anti-rattle spring from the caliper.

- (3) Remove the brake pads (IN/OUT).

2. Installation of new pad

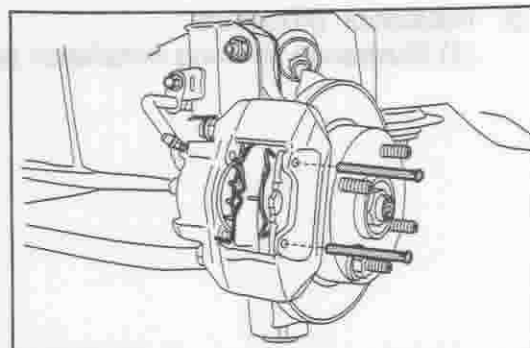
- (1) Loosen the mount bolt at the upper side.
- (2) Remove the bolt at the lower side and raise the caliper.
- (3) Push the piston into the cylinder by utilizing the grip of a hammer, etc.

- (4) Return the caliper to the original position and install the inner pad (with a wear indicator).
- (5) Set the anti-squeal shim to the pad and install it to the caliper.

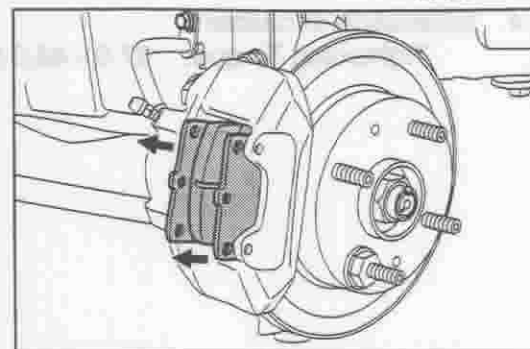
NOTE:

- Care must be exercised so that no grease and oil may get to the friction surface of the disc and pad.

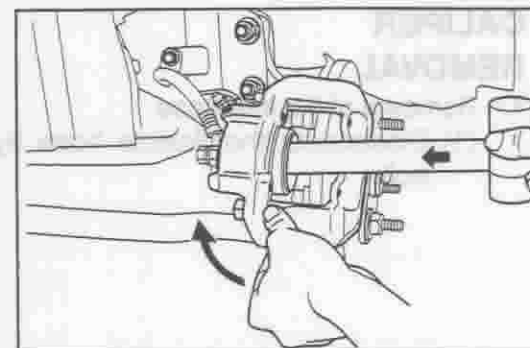
- (6) Install the anti-rattle spring, disc pad pins and pin hold spring.



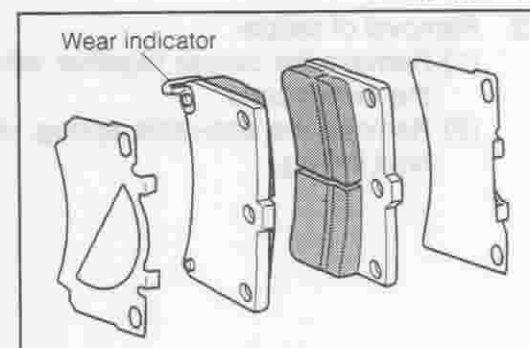
LBR00047-00046



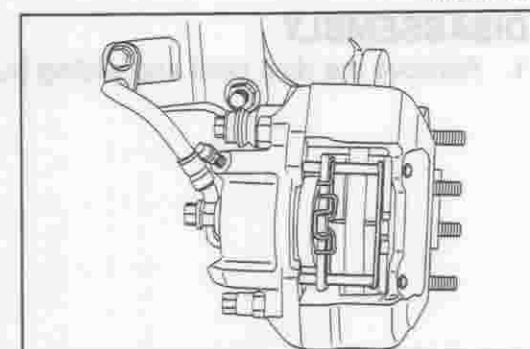
LBR00048-00047



LBR00049-00048



LBR00050-00049



LBR00051-00050

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CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

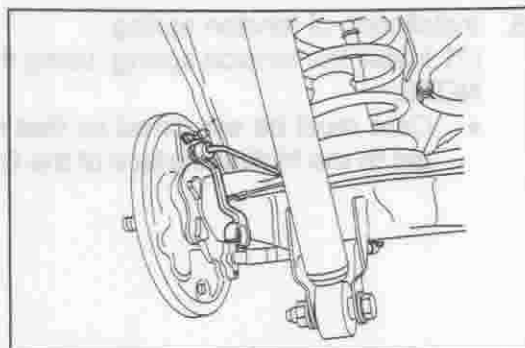
- (2) Install the wheel cylinder to the backing plate with the two nuts.

Tightening Torque: 7.8 - 11.7 N·m

3. Connection of brake pipe

- (1) Connect the brake pipe to the wheel cylinder, using a flare nut wrench.

Tightening Torque: 12.7 - 17.7 N·m

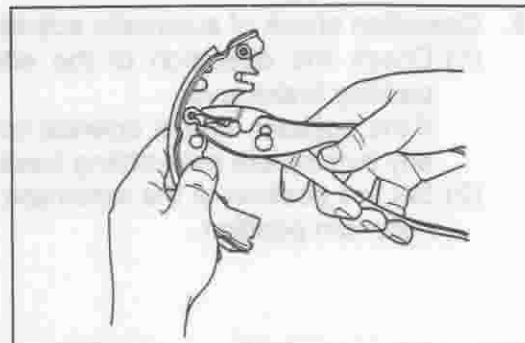


LBR00093-00091

4. Assembling of brake shoe

- (1) Install the automatic adjuster lever to the brake shoe.

- (2) Positively secure the pin, using a new C-ring.

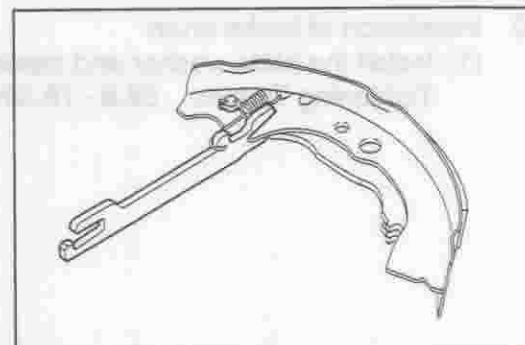


LBR00094-00092

5. Installation of parking brake shoe strut

- (1) Install the parking brake strut and parking brake lever.

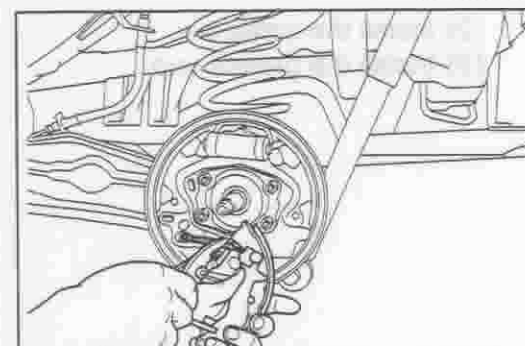
- (2) Positively secure the pin, using a new C-ring.



LBR00095-00093

6. Connection of parking brake cable

- (1) Connect the cable to the parking brake lever.

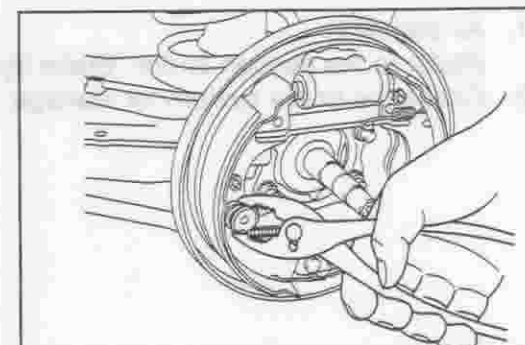


LBR00096-00094

7. Installation of front/rear brake shoe

- (1) Set the shoe between the wheel cylinder and the anchor pin.

- (2) Install the shoe hold-down spring, cup and pin.



LBR00097-00095

ABS CIRCUIT CONNECTION TABLE

No.	Abbreviation code	Terminal of ABS actuator unit to be connected	Wheel speed sensor				Stop lamp switch		
			Front		Rear		Ignition switch		
			Right	Left	Right	Left		ABS fuse	Diagnosis check connector
									Others
1	FL1 (W51)	Speed sensor (Front left)	○	○					
2	FL0 (W65)	Speed sensor (Front left)	○	○					
4	IGN (W48)	Ignition switch	○				○		
5	RL1 (W66)	Speed sensor (Rear left)	○			○			
6	RL0 (W52)	Speed sensor (Rear left)	○			○			
7	SIO (WV0)	External communication circuit (Diagnosis check connector)	○					○	
8	GND1 (ZP0)	Ground	○						○ Body ground
9	BATT1 (WY5)	ABS fuse	○				○		
14	TC (WV2)	Diagnosis check connector	○					○	
16	WLAS (WT1)	ABS warning lamp	○						○ Combination meter
18	BLS (WT0)	Stop lamp switch	○				○		
19	FR1 (W53)	Speed sensor (Front right)	○	○					
20	FR0 (W65)	Speed sensor (Front right)	○	○					
22	RR0 (W50)	Speed sensor (Rear right)	○			○			
23	RR1 (W64)	Speed sensor (Rear right)	○			○			
24	GND2 (ZP1)	Body ground	○						○ Body ground
25	BATT2 (WS9)	Battery	○				○		

LABS00004-00000

PRECAUTIONS

- The ABS system has a self-diagnosis function. The ECU in the ABS actuator unit memorizes abnormality as diagnosis codes which are occurring at present or occurred in the past.

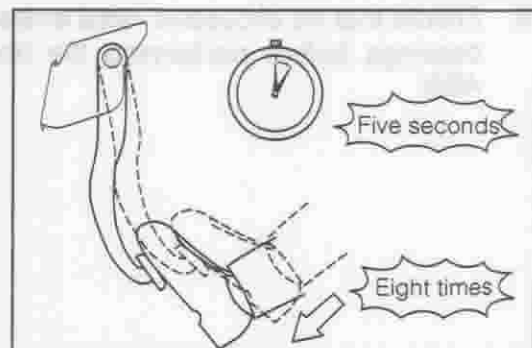
Memorized diagnosis codes are erased when the brake pedal is depressed eight times or more within predetermined form. Therefore, no diagnosis code will be erased even when the battery power supply is shut off.

NOTE:

- Be sure to perform the sensor check by sensor check function after erasing the diagnosis code.



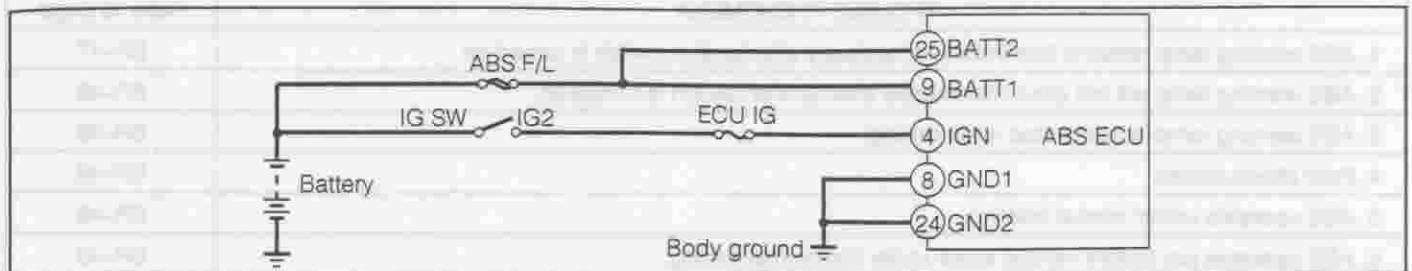
LABS00005-00005



LABS00006-00006

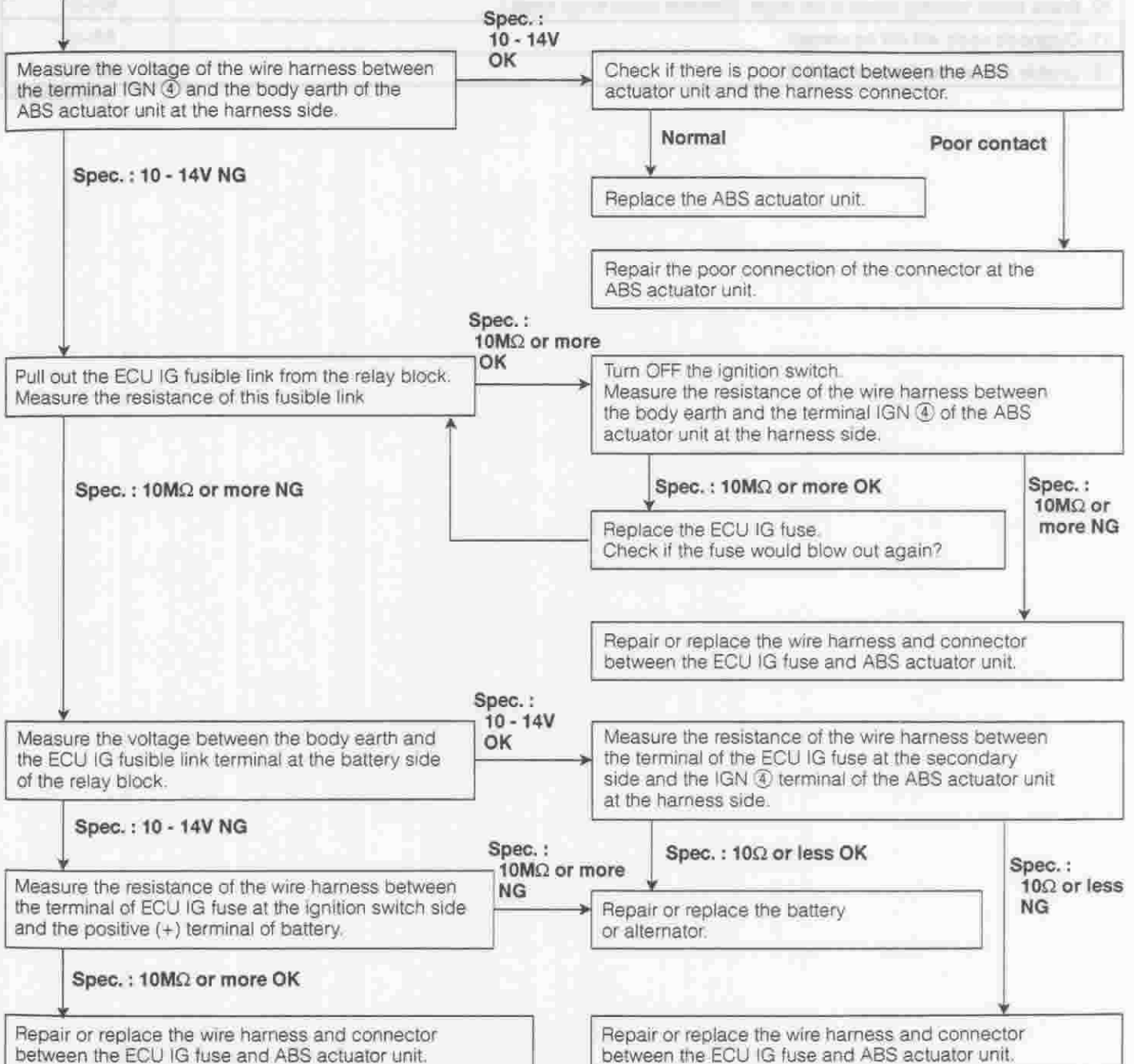
<DIAGNOSIS CODE 41>

- Monitoring input voltage of IGN ④ terminal.



LABS00032-00025

Turn OFF the ignition switch.
Disconnect the connector from the ABS actuator unit.
Turn ON the ignition switch.



LABS00033-00000

Erasing procedure for diagnosis codes

NOTE:

- The diagnosis codes will not be erased even if the battery power supply is shut off.

1. Erasing procedure by brake pedal

(1) Connect the following SST to the diagnosis connector.

SST: 09991-87404-000

(2) Connect the ECUT and E terminals in the SST terminal with the following SST.

SST: 09991-87403-000

CAUTION:

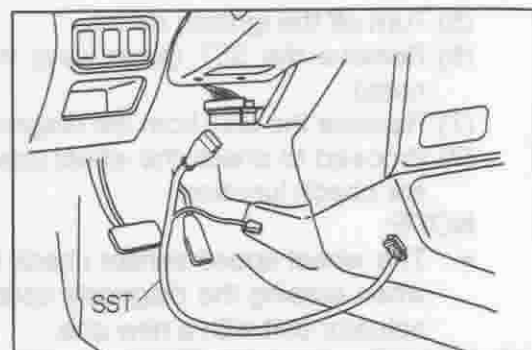
- Never connect the terminals other than those specified, for even slight contact of other terminals may lead to serious malfunction or damage.

(3) Turn ON the ignition switch. (Never start the engine.)

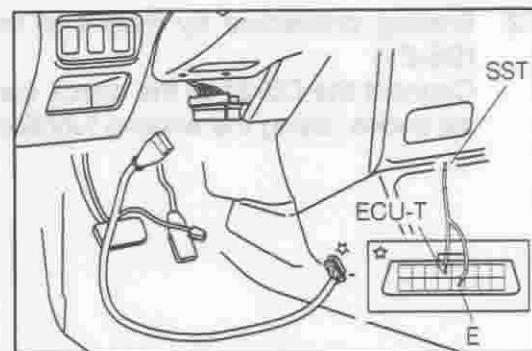
(4) Depress the brake pedal more than 8 times within five seconds in order to repeat the ON/OFF operation of the stop lamp switch immediately after the ignition switch is turned ON.

NOTE:

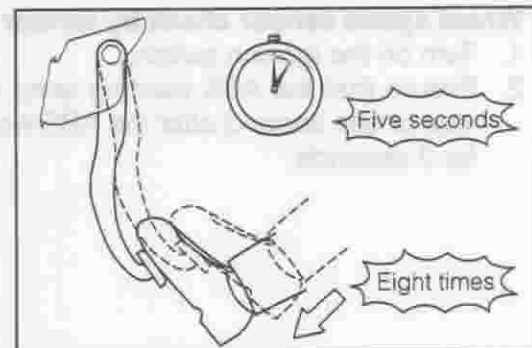
- When no change in ON/OFF state of the stop lamp switch is inputted within three seconds after the ignition switch has been turned ON, or when no change in ON/OFF state of the stop lamp of the second time onward is inputted within one second, the diagnosis code remains indicated and no diagnosis code will be erased.
- If any malfunction persists even after the diagnosis code has been erased, the warning lamp will not go out.
- After the diagnosis code is erased, the mode will automatically move on to the sensor check mode. (Refer to the section under "Wheel speed sensor check by sensor check function.")



LABS00049-00026

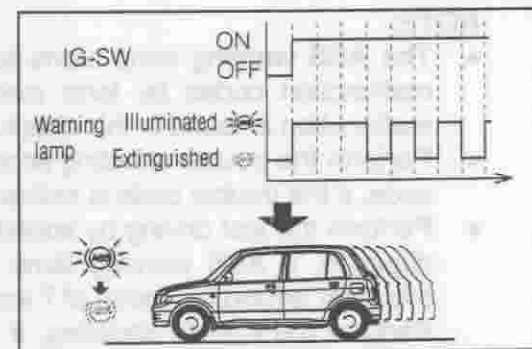


LABS00050-00027



LABS00051-00028

LABS00052-00000



LABS00000-00029

2. Check of fluid lines in actuator

CAUTION:

- Be sure to prevent the brake fluid from coming in contact with the painted surface and resin parts, using a piece of cloth or the like. If the brake fluid comes in contact with the painted surface and resin parts, immediately wipe off the brake fluid and wash with fresh water.

- (1) Loosen the brake pipes connected to the actuator from the master cylinder.
- (2) Ensure that the brake fluid will flow out without resistance when the brake pedal is depressed.

CAUTION:

- Be sure to depress the brake pedal gradually, otherwise a quite large amount of brake fluid will splash out.
- If no brake fluid flows out, check the fluid leakage or internal leakage in the brake master cylinder.

- (3) Tighten the flare nuts to the specified tightening torque.

Tightening Torque: $15.2 \pm 2.5 \text{ N}\cdot\text{m}$

- (4) Loosen the brake pipes connected to the actuator from the wheel cylinders.
- (5) Ensure that the brake fluid will flow out without resistance when the brake pedal is depressed.

CAUTION:

- Be sure to depress the brake pedal gradually, otherwise a quite large amount of brake fluid will splash out.
- If no brake fluid flows out, replace the actuator with a new one, after inspecting the P valve for fluid continuity.

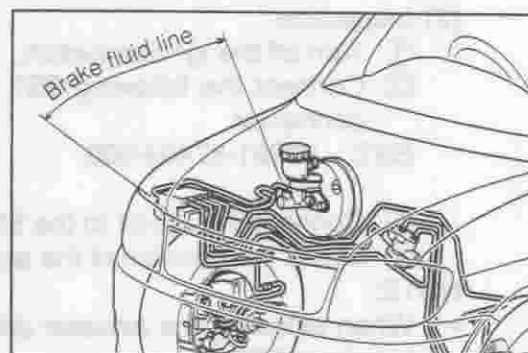
- (6) Tighten the flare nuts to the specified tightening torque.

Tightening Torque: $15.2 \pm 2.5 \text{ N}\cdot\text{m}$

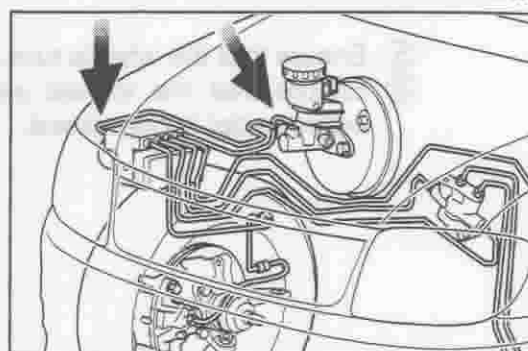
3. Function check of actuator using DS-21

(1) Preparation before inspection

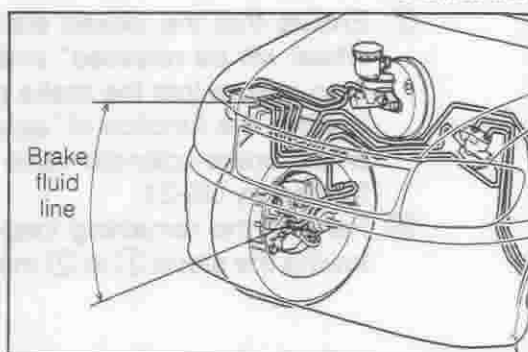
- ① Check the brake system, using a brake tester.
- ② Jack up the vehicle and support it with safety stands.
(Refer to the GI section for supporting position of the safety stand.)
- ③ Release the parking brake.
- ④ Place the shift lever to the neutral position.
- ⑤ Ensure that the wheels turn properly.



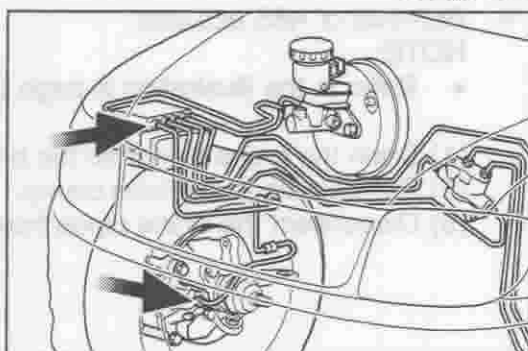
LABS00089-00063



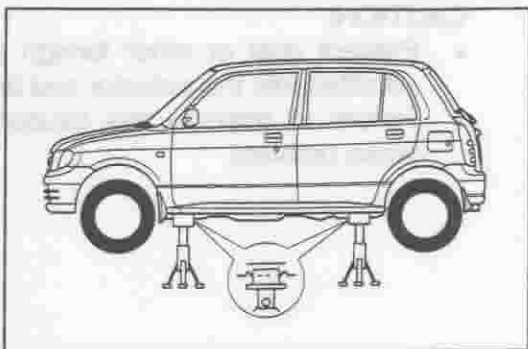
LABS00090-00064



LABS00091-00065



LABS00092-00066

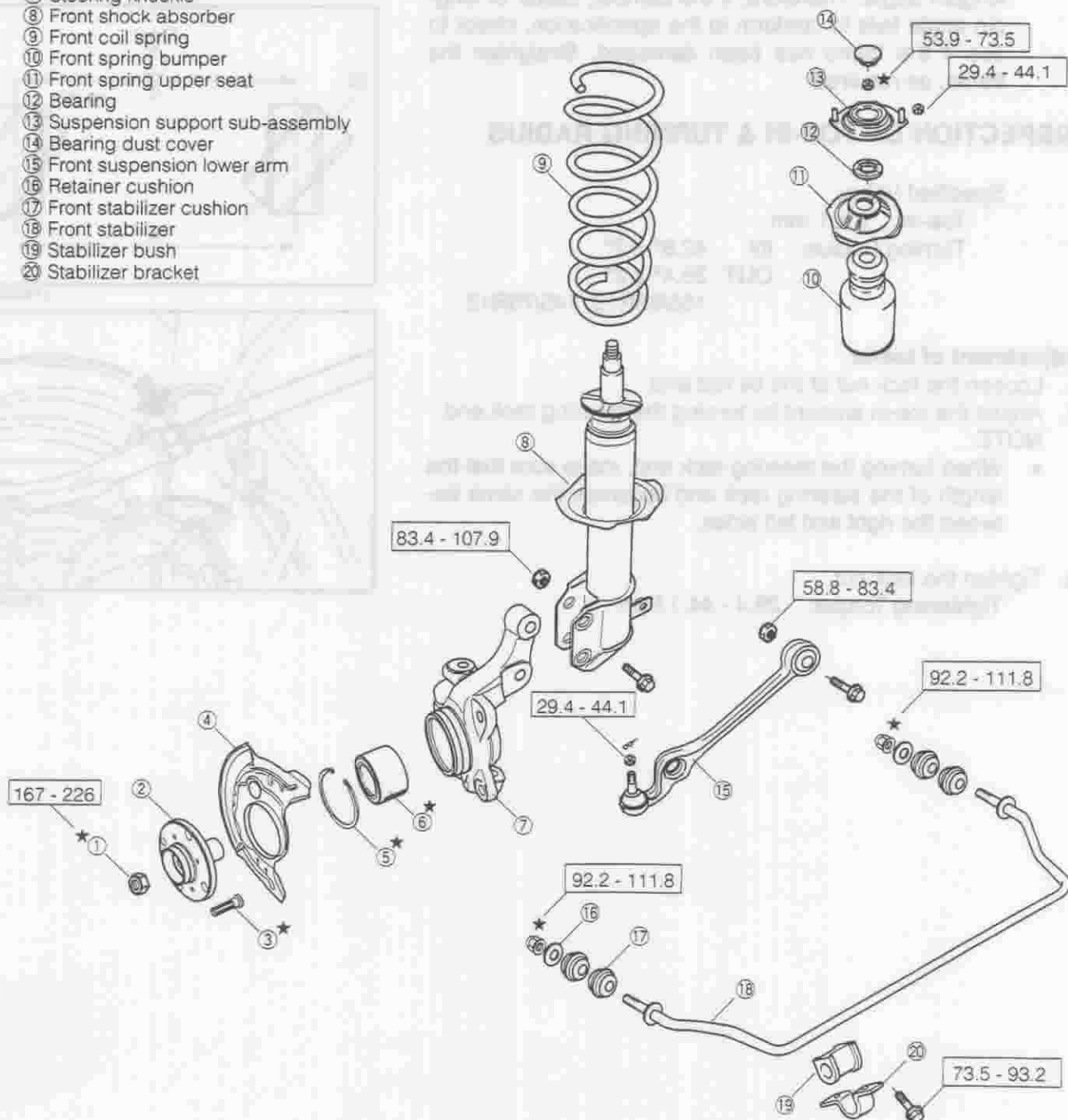


LABS00093-00067

COMPONENTS

- ① Drive shaft lock nut
- ② Front axle hub
- ③ Hub bolt
- ④ Disc brake dust cover
- ⑤ Snap ring
- ⑥ Front axle bearing
- ⑦ Steering knuckle
- ⑧ Front shock absorber
- ⑨ Front coil spring
- ⑩ Front spring upper seat
- ⑪ Bearing
- ⑫ Suspension support sub-assembly
- ⑬ Bearing dust cover
- ⑭ Front suspension lower arm
- ⑮ Retainer cushion
- ⑯ Front stabilizer cushion
- ⑰ Front stabilizer
- ⑱ Stabilizer bush
- ⑳ Stabilizer bracket

□ : Tightening torque
 ★ : Non-reusable parts
 Unit : N·m (kgf·m)



- Turn the screw of the coil spring compressor so that the compressed front spring may return to the original state gradually and spring tension may be applied to the suspension support.

NOTE:

- At this time, make sure that each end of the coil spring may be brought into contact with the recessed sections of the upper seat and lower seat of the front spring, respectively.

INSTALLATION

- Install the front suspension support to the body with the new nuts. Tighten them to the specified torque.

Tightening Torque: 29.4 - 44.1 N·m

NOTE:

- As for the installation direction of the front suspension support, refer to the right figure.

- Assemble the shock absorber to the steering knuckle with the specified bolts and nuts.

Tightening Torque: 83.4 - 107.9 N·m

- Tighten the nuts of the shock absorber rod to the specified torque.

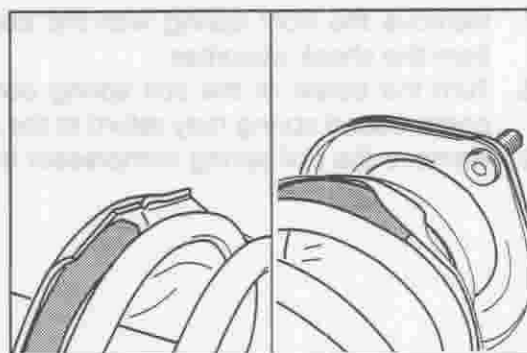
Tightening Torque: 53.9 - 73.5 N·m

- Install the bearing dust cover.

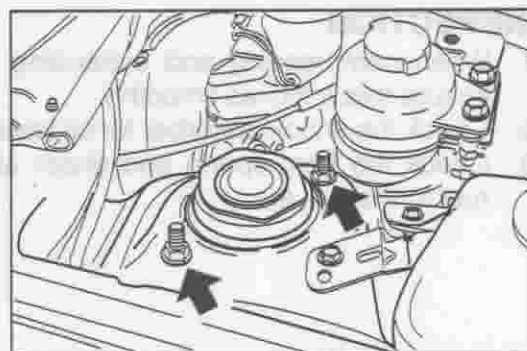
- Install the brake hose bracket to the steering knuckle.

Tightening Torque: 16.7 - 24.5 N·m

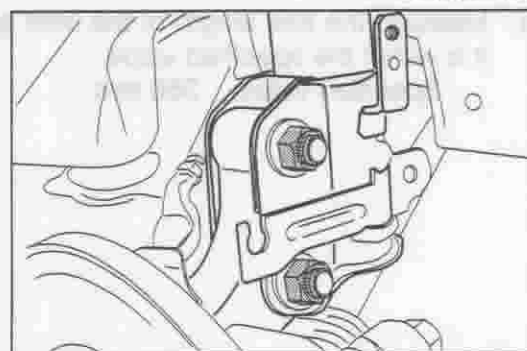
- Install the harness bracket of the ABS speed sensor to the steering knuckle.



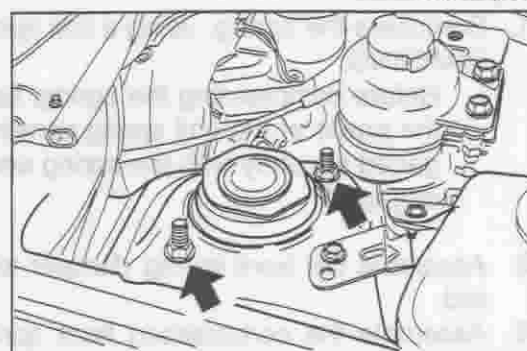
LFS00053-00051



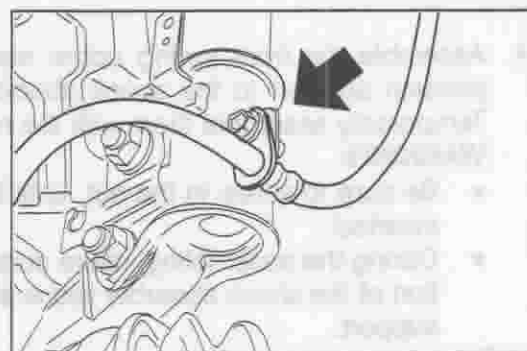
LFS00054-00052



LFS00055-00053



LFS00056-00054



LFS00057-00055

TIGHTENING TORQUE

※T8:

	Components	N·m	kgf·cm
	Wheel hub nut	89 - 118	900 - 1200
	Steering knuckle × Suspension lower arm	29.4 - 44.1	300 - 450
	Suspension lower arm × Frame	58.8 - 83.4	600 - 850
	Stabilizer link × Suspension lower arm	92.2 - 111.8	940 - 1140
	Shock absorber × Steering knuckle	83.4 - 107.9	850 - 1100
	Shock absorber piston end nut	53.9 - 73.5	550 - 750
	Suspension support × Front fender apron	29.4 - 44.1	300 - 450
	Stabilizer bracket × Frame	73.5 - 93.2	750 - 950
	Drive shaft × Front axle hub	167 - 226	1700 - 2300
	Tie-rod end lock nut	29.4 - 44.1	300 - 450
	Tie-rod end × Steering knuckle	29.4 - 44.1	300 - 450
	Steering knuckle × Speed sensor bracket	6.9 - 9.8	70 - 100
	Steering knuckle × Brake hose bracket	16.7 - 24.5	170 - 250
	Steering knuckle × Disc brake assembly	90.2 - 135.3	920 - 1380

LFS00095-00000

1-25	Front wheel nut to axle hub	89-118 N·m Tighten to spec torque. Torque is applied clockwise.	
2-25	Long lower arm suspension lower arm nut to suspension lower arm	29.4-44.1 N·m Clockwise side	
3-25	Shock absorber nut to axle hub	53.9-73.5 N·m Tighten to spec torque. Torque is applied clockwise.	
4-25	Stabilizer bracket to frame	73.5-93.2 N·m Tighten to spec torque. Torque is applied clockwise.	
5-25	Drive shaft to front axle hub	167-226 N·m Tighten to spec torque. Torque is applied clockwise.	
6-25	Tie-rod end lock nut	29.4-44.1 N·m Tighten to spec torque. Torque is applied clockwise.	
7-25	Tie-rod end to steering knuckle	29.4-44.1 N·m Tighten to spec torque. Torque is applied clockwise.	
8-25	Steering knuckle to speed sensor bracket	6.9-9.8 N·m Tighten to spec torque. Torque is applied clockwise.	
9-25	Steering knuckle to brake hose bracket	16.7-24.5 N·m Tighten to spec torque. Torque is applied clockwise.	
10-25	Steering knuckle to disc brake assembly	90.2-135.3 N·m Tighten to spec torque. Torque is applied clockwise.	

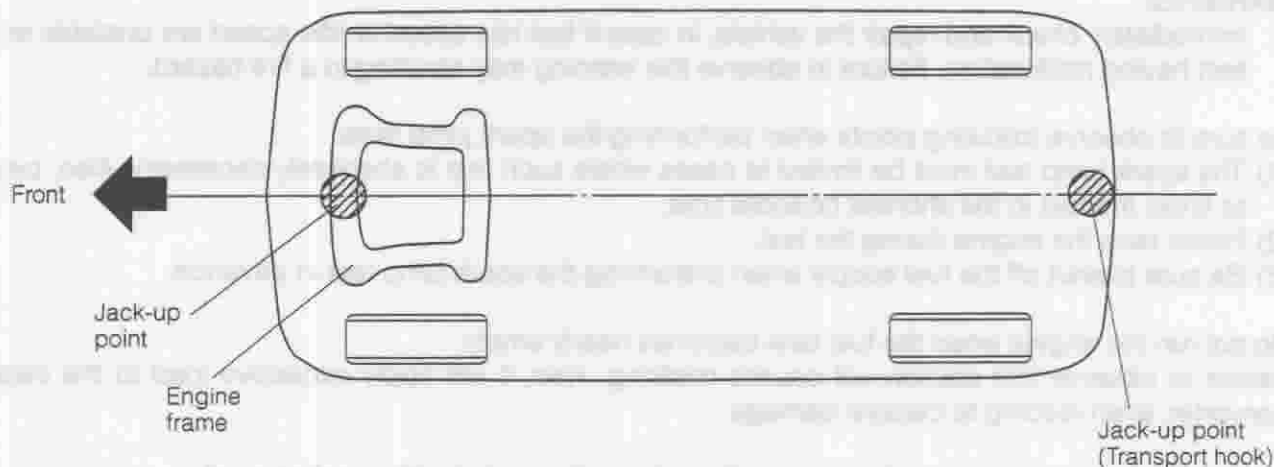
JACKING POINTS AND SUPPORTING POINTS OF SAFETY STANDS

CAUTION:

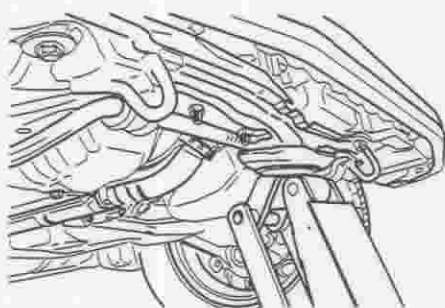
- The jacking-up operation must be carried out only on a level, flat place.
- Never use the rear suspension beam as a jacking point. If the vehicle should be raised with this point used as a jacking point, the beam may be damaged.

JACKING POINTS

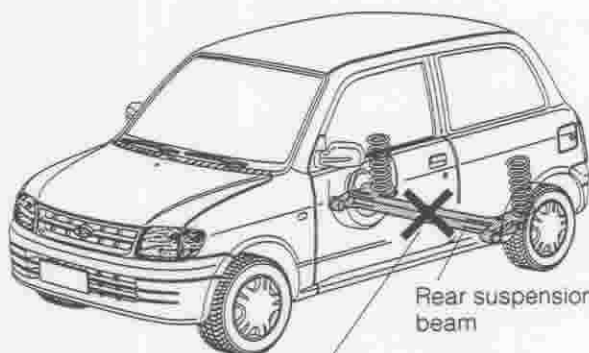
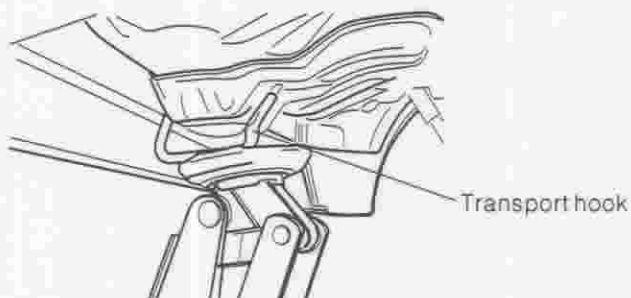
Supporting point of garage jack



Front



Rear



Caution:
Never use the rear suspension
beam as a jacking point.

OPERATION OF 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.

Connection

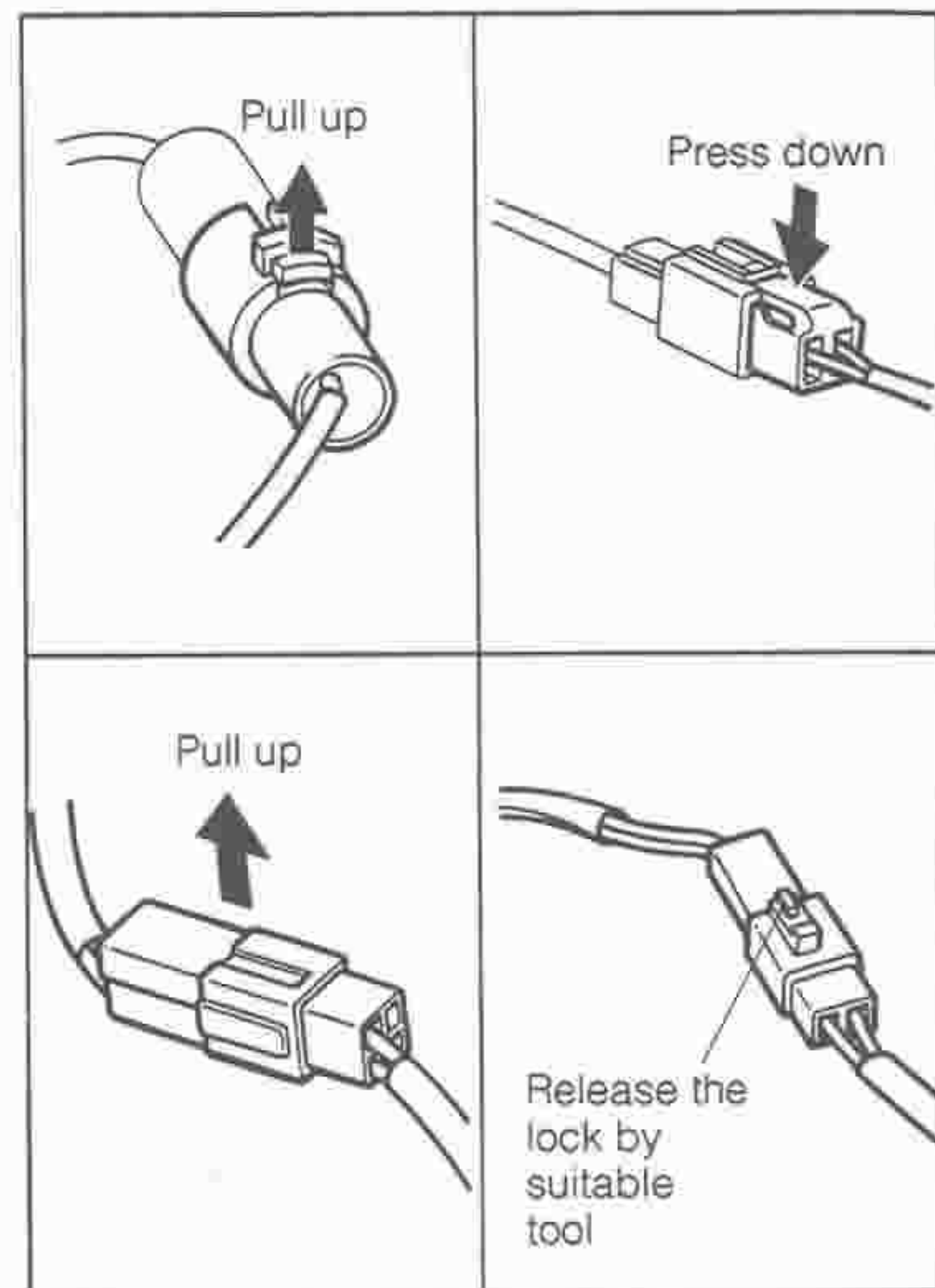
Perform the connection until the lock is completely engaged. After the connection has been made, ensure that the lock is engaged positively.

NOTE:

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

NOTE:

- 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.



LHW00020-00013

LHW00021-00000

TERMINAL REMOVAL & INSTALLATION

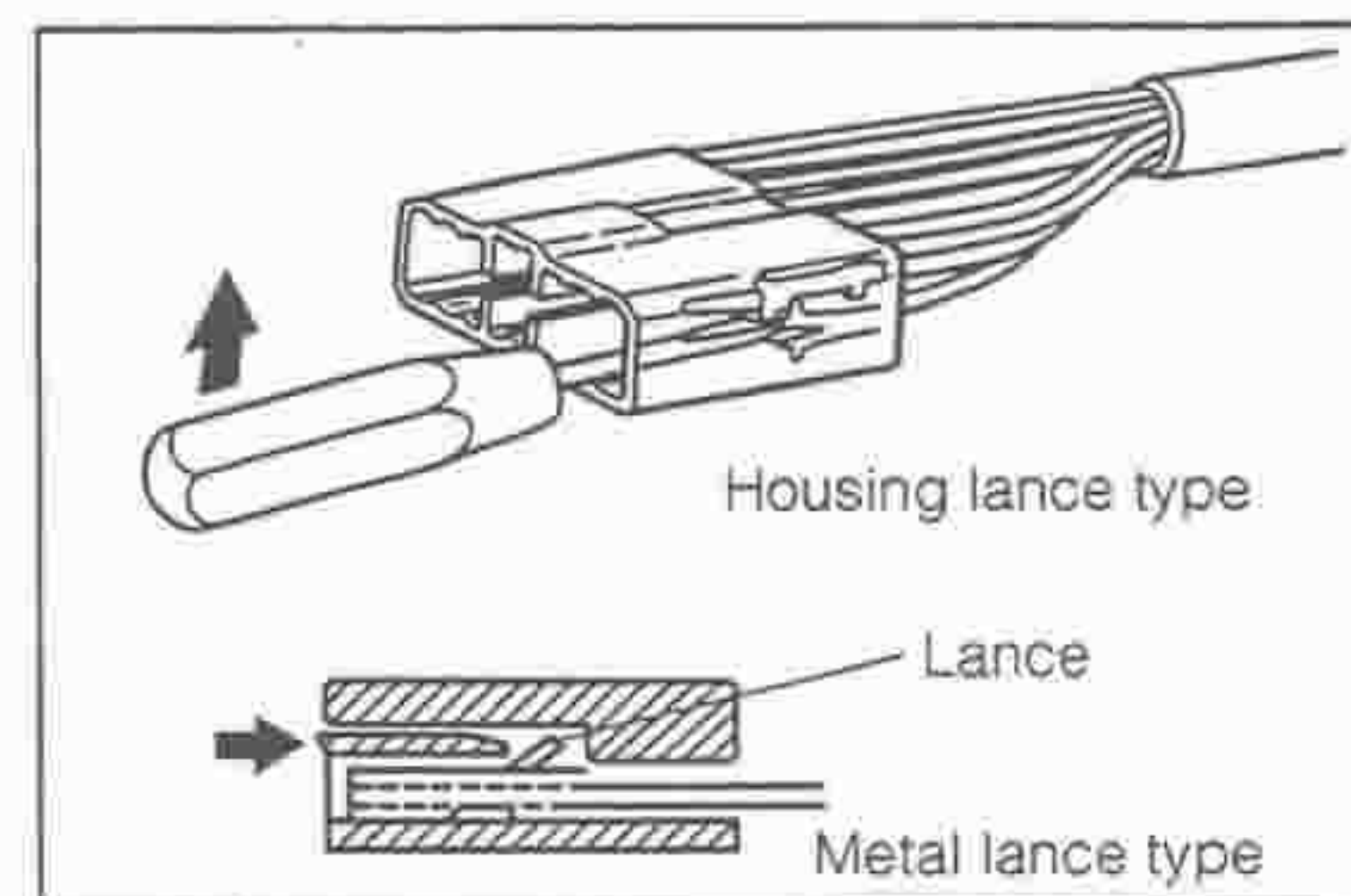
Removal of terminal

<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.



LHW00022-00014

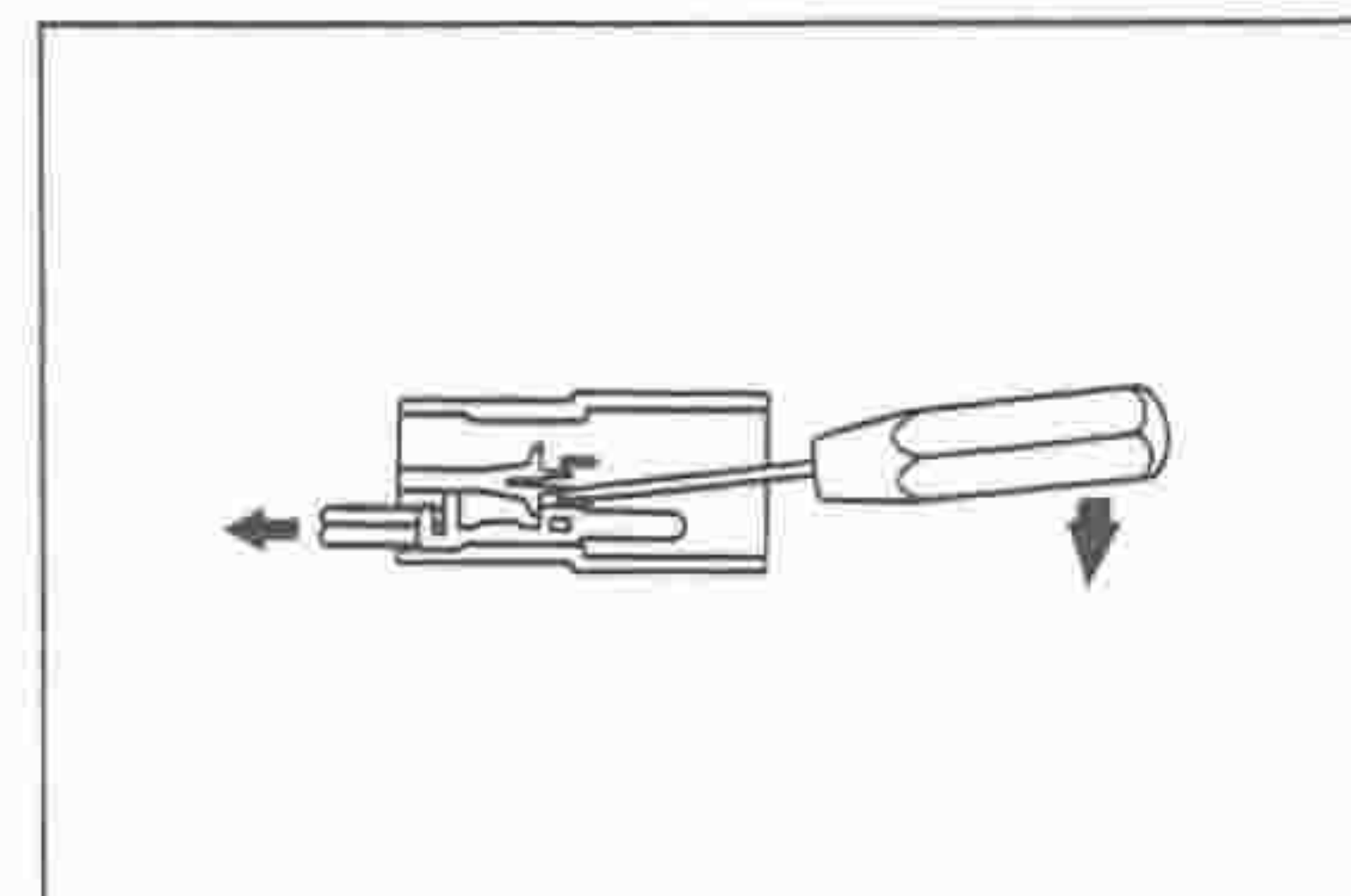
Installation of terminal

<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.

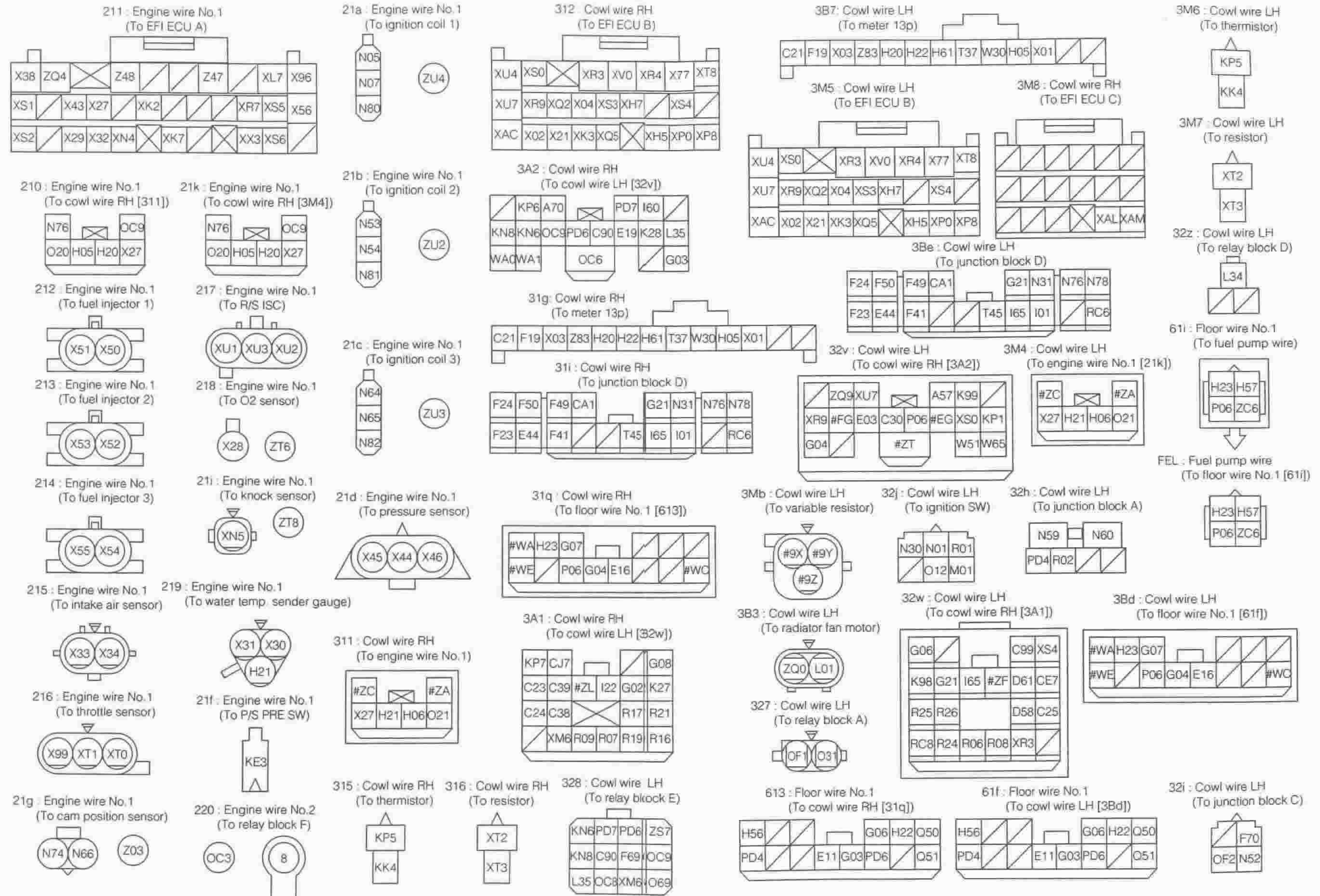
<Metal lance type>

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

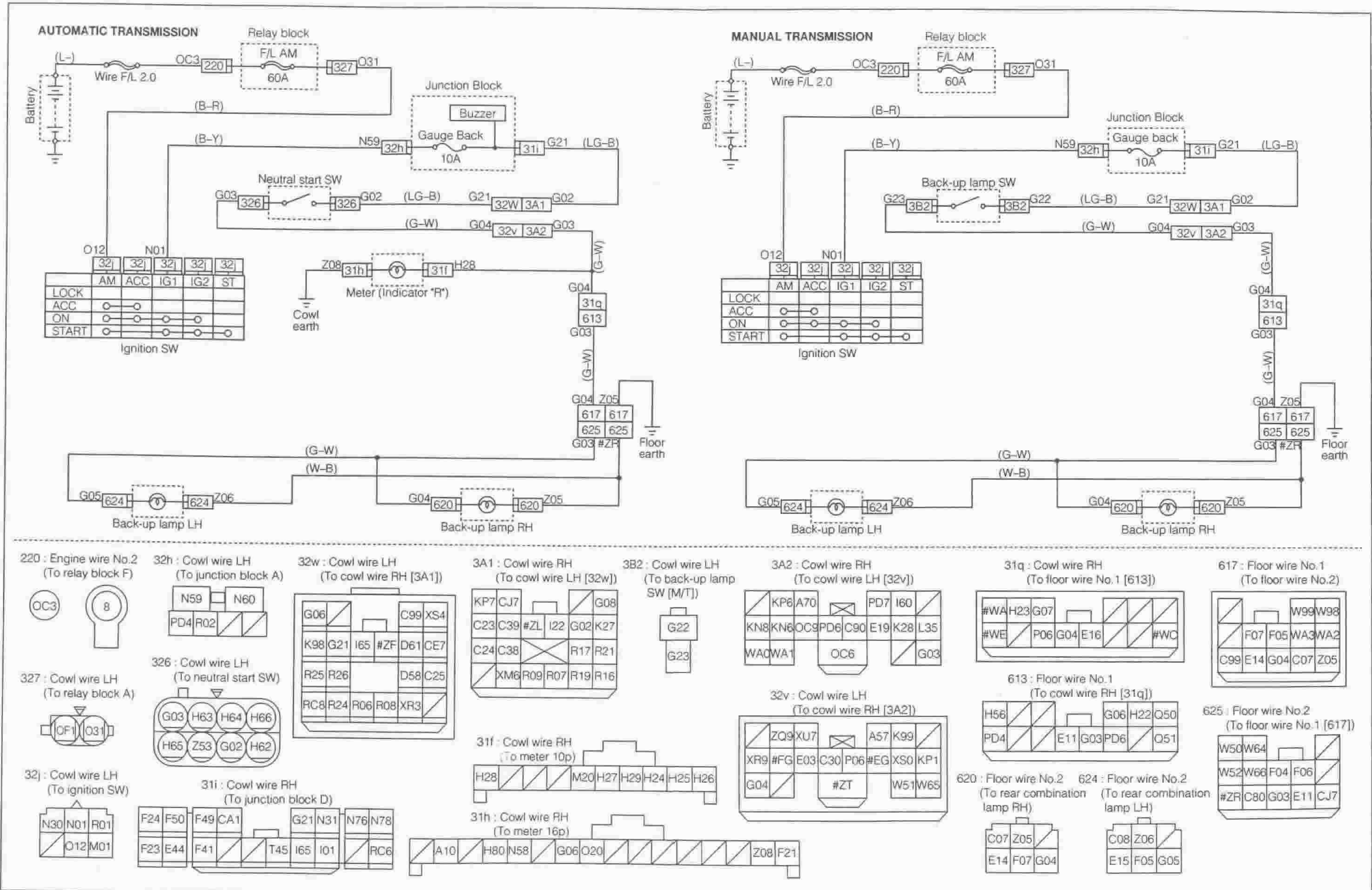


LHW00023-00015

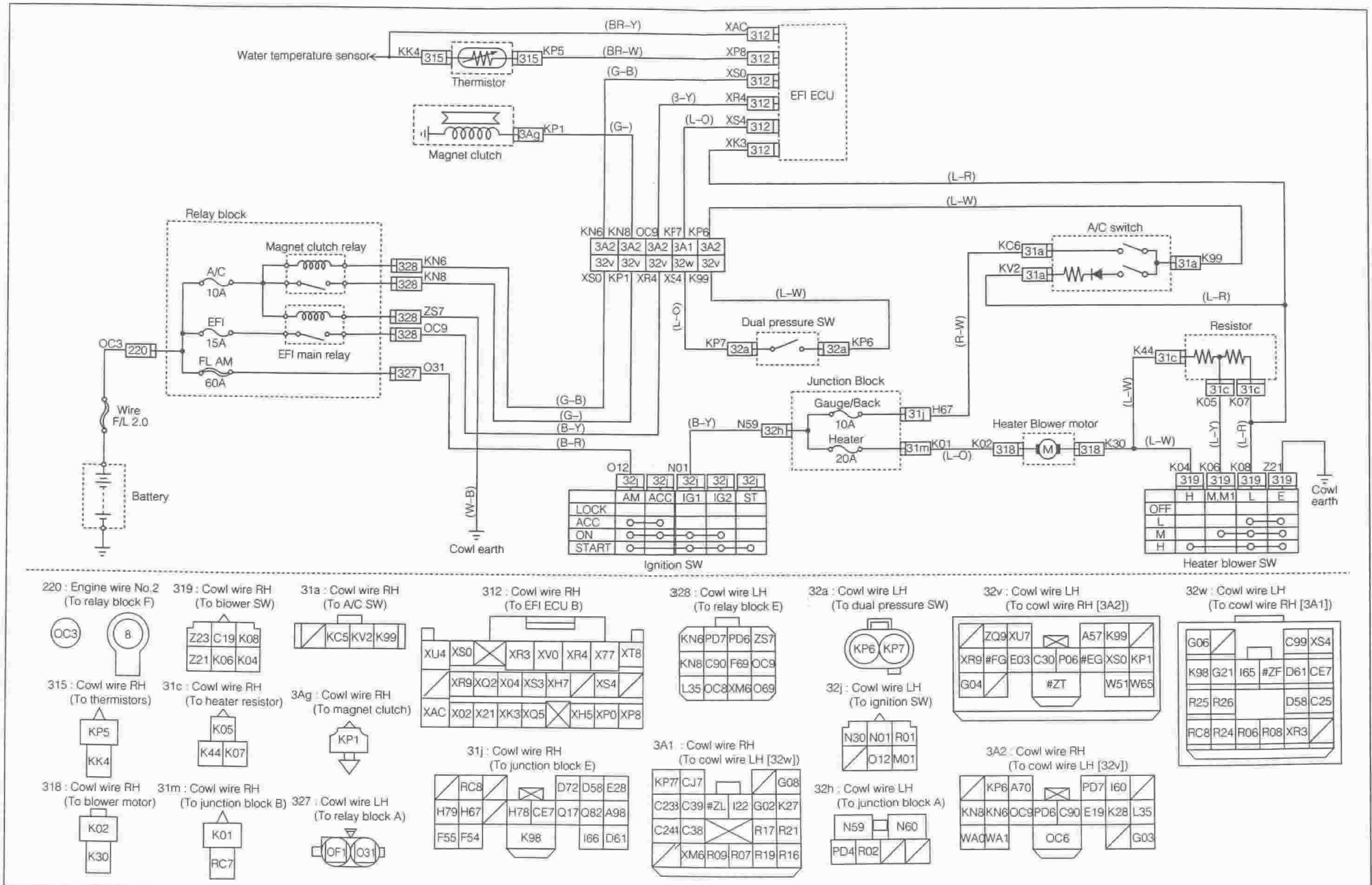
EFI SYSTEM (CONNECTORS)



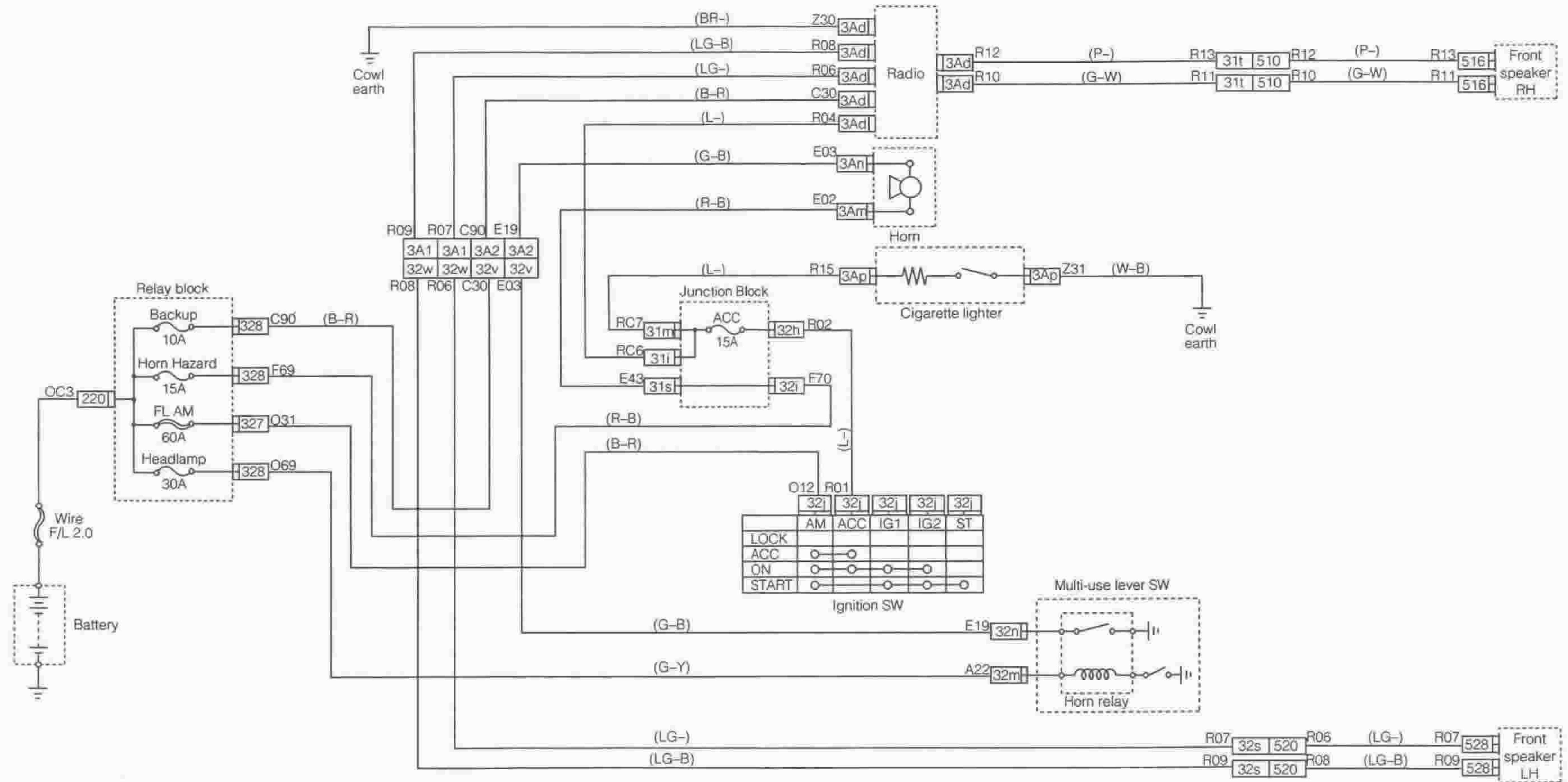
BACK UP LAMP (LHD)



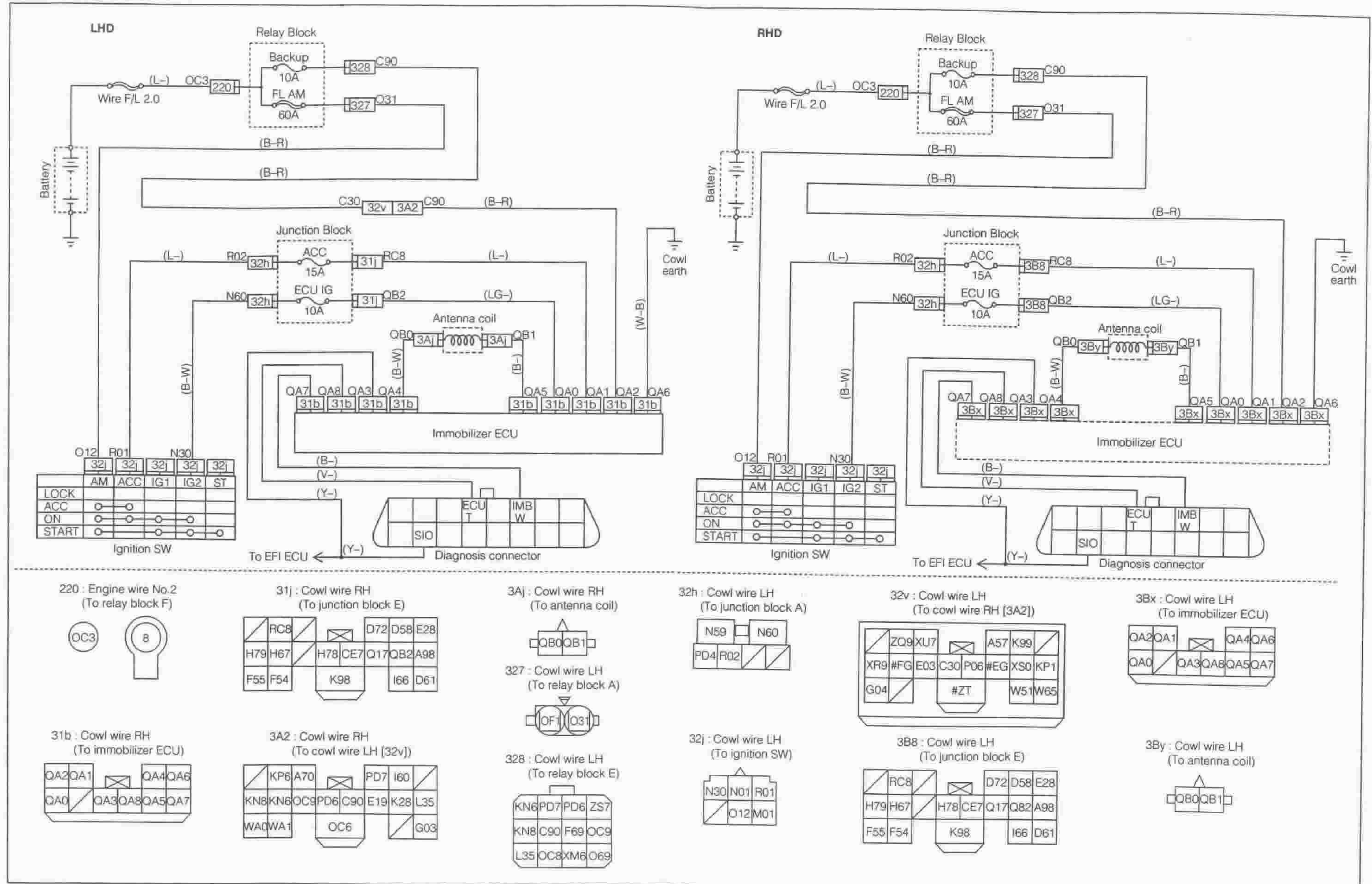
HEATER & VENTILATION (LHD)



CIGARETTE LIGHTER, HORN, RADIO (LHD)



IMMOBILIZER SYSTEM



MAINTENANCE SCHEDULE

NOTE:

- Perform the periodical maintenance at the specified mileage or the time whichever comes first, unless otherwise specified.
- Continue to perform the periodical maintenance after 100,000 km (60,000 miles) at the same intervals as before 100,000 km.
- If the vehicle should be operated under severe driving conditions, operated occasionally, operated in dusty areas, repeating short trips, operated under extremely cold climate and/or on salted roads, it is necessary to perform some maintenance items more frequently than the regular maintenance schedule.
- This maintenance schedule was prepared based on requirements mentioned in the owner's manual which are to be performed by the Daihatsu owner thoroughly.

○---Check or inspect. ●---Change or replace.

Section	Item	What to do	Inspection interval	×1000 km	1	10	20	30	40	50	60	70	80	90	100	See page
				×1000 miles	0.6	6	12	18	24	30	36	42	48	54	60	
				Years	—	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	
Engine	Air cleaner element	Cleaning Check • Damage					○		●		○		●		○	MA-6
	Valve clearance	Check & adjustment							○				○			MA-6
	Engine oil & oil filter	Change (Use API: SG or higher grade)														MA-6
	Fuel filter	Change														MA-7
	Fuel line & connections (Including fuel hoses)	Check • Crack • Tightness • Leakage • Damage														MA-8
	Coolant (Long-life coolant)	Change														MA-8
	Drive belt (Alternator, water pump, power steering)	Check • Tension • Crack • Damage					○		○		○		○		○	MA-9
	Timing belt	Change														MA-10
	Spark plug	Cleaning & check • Condition • Gap • Damage					○		○		○		○		○	MA-10
Exhaust emission control system	Blow-by gas recirculation hose (Positive crankcase ventilation hose)	Check • Connection • Damage							○				○			MA-10
	Charcoal canister	Check • Function • Damage							○				○			MA-10
	Evaporative emission hoses	Change														MA-11
	Exhaust pipe & muffler mounting	Check • Tightness • Damage					○		○		○		○		○	MA-11

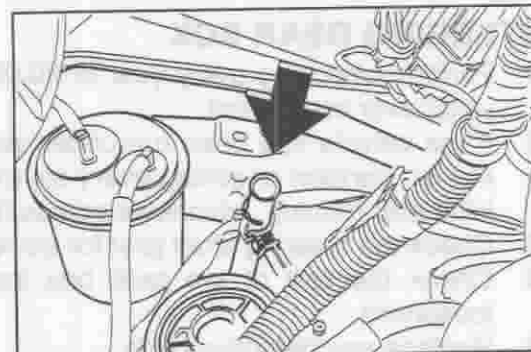
* Replace every 10,000 km when API SF grade oil is used.

LMA00003-00000

6. Fill the specified fluid from the filler tube.
Grade: ATF DEXRON® II or III
Filling Amount: 1.9 liters

NOTE:

- For details of the operation, refer to Section AT.



LMA00041-00035

MANUAL TRANSMISSION OIL

1. Change the manual transmission oil every two years or 40,000 kilometer running, whichever comes first.
2. If the vehicle has been run under severe driving environments, change the manual transmission oil every 25,000 kilometer running.
3. Place a suitable container under the drain plug of the transmission.
4. Remove the drain plug and drain the oil.
5. Install the drain plug to the transmission with a new gasket interposed.

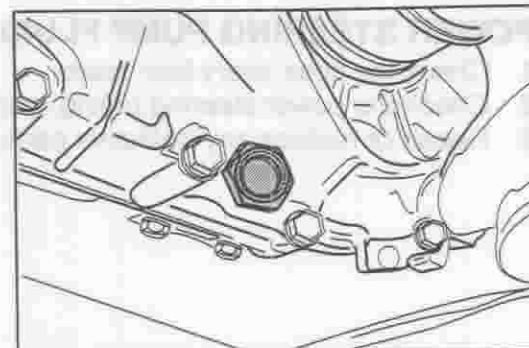
Tightening Torque: 29.4 - 49.0 N·m

6. Fill the specified oil from the filler plug hole.
Grade: API GL-3 or GL-4
Viscosity: SAE75W-85
Filling Amount: 2.1 - 2.25 liters
7. Install the filler plug to the transmission with a new gasket interposed.

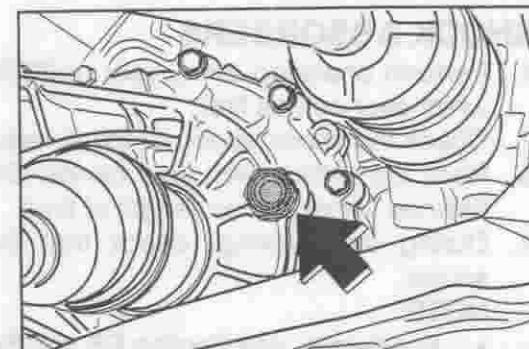
Tightening Torque: 29.4 - 49.0 N·m

NOTE:

- For details of the operation, refer to Section MT.



LMA00042-00036



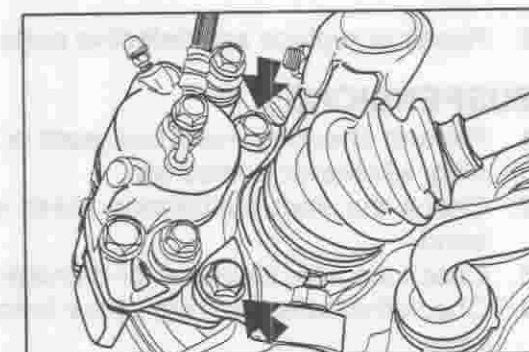
LMA00043-00037

DRIVE SHAFT BOOT

1. Perform checking every year or 20,000 kilometer running, whichever comes first.
2. Check the boot for damage and cracks.
3. If the boot exhibits defects, replace it. Seal new grease.

NOTE:

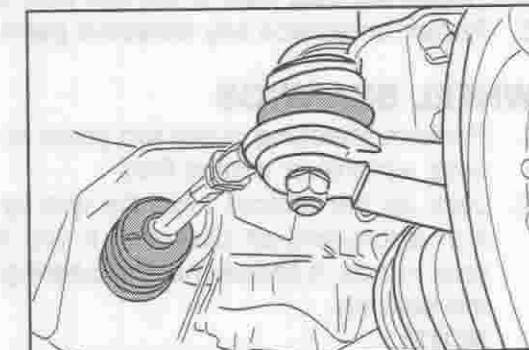
- For the operation procedure, refer to Section FS.



LMA00044-00038

STEERING LINKAGE

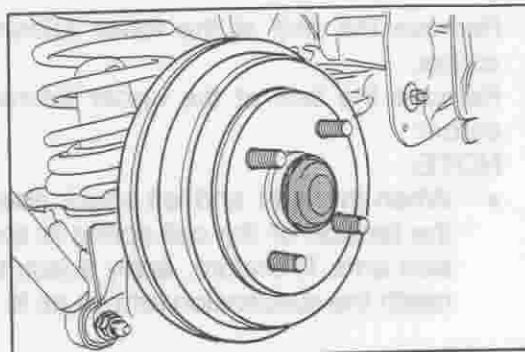
1. Perform checking every year or 20,000 kilometer running, whichever comes first.
2. If the vehicle has been run under severe driving environments, perform checking every six months or every 5,000 kilometer running, whichever comes first.
3. Check the dust cover of the tie rod end ball joint for cracks and damage.
4. Check the steering rack boot for cracks and damage.
5. Repair or replace any defective parts.



LMA00045-00039

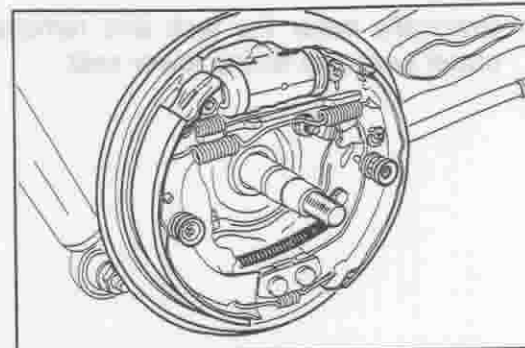
REMOVAL

1. Jack up the vehicle and remove the rear wheel.
See Section GI.
2. Remove the bearing grease retainer cap.



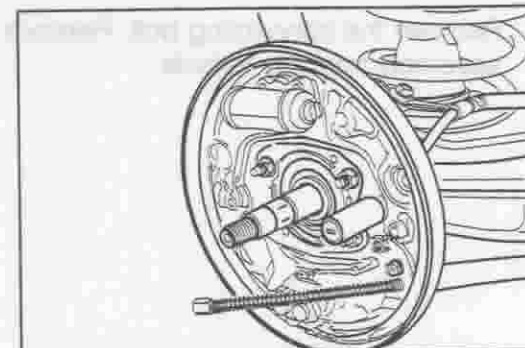
LRS00011-00009

3. Remove the cotter pin.
4. Remove the castle nut.
5. Remove the brake drum.
6. Remove the brake shoe.



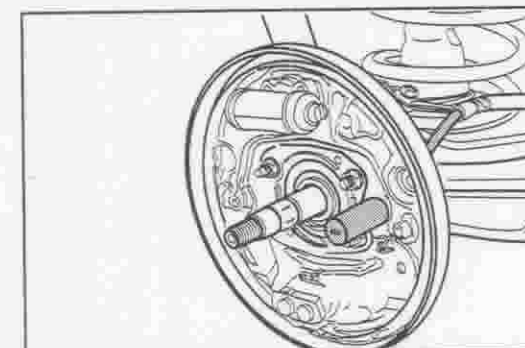
LRS00012-00010

7. Disconnect the parking brake cable from the brake shoe.
8. Disconnect the parking brake cable from the backing plate.
9. Disconnect the clamp of the parking brake cable.



LRS00013-00011

10. In the case of the vehicle with the ABS brake specification, remove the backing plate. Remove the ABS speed sensor.

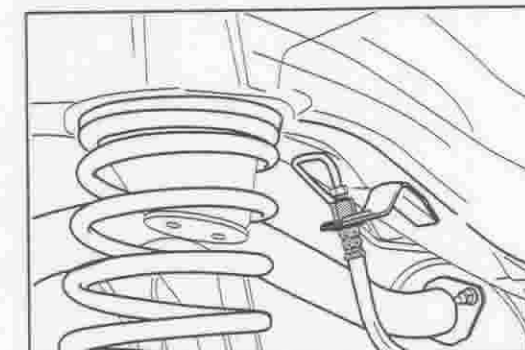


LRS00014-00012

11. Disconnect the brake tube from the brake pipe. Remove the clamp.

NOTE:

- The operations in Steps 10 and 11 are not necessary except for the removal of the rear suspension assembly.

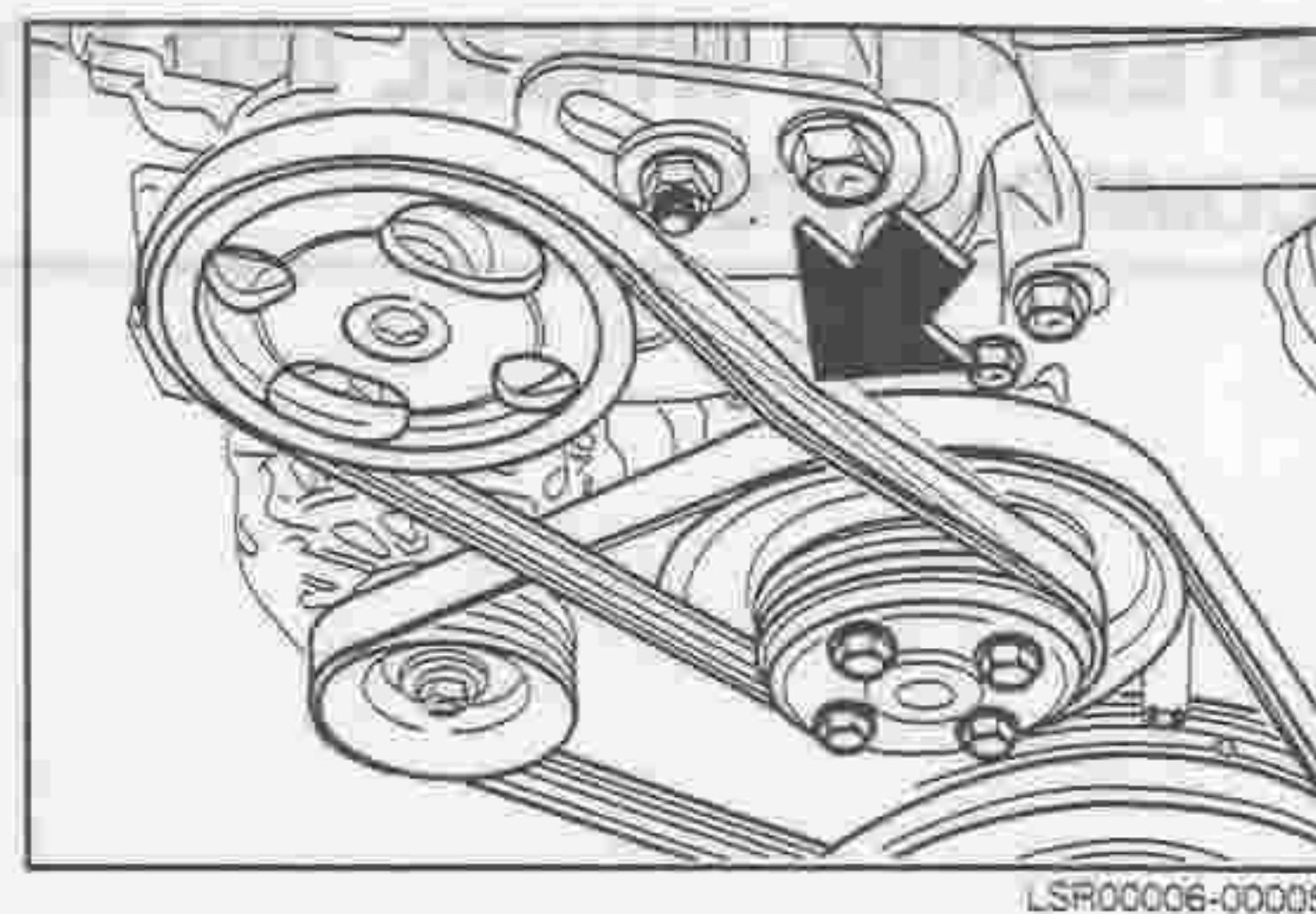


LRS00015-00013

- Check that a suitable tension is applied to the drive belt.
Specified Value: 7.5 - 11.5 mm
(When a force of 98N is applied to the drive belt at the midpoint between respective pulleys.)

NOTE:

- In the case of a new drive belt, the measurement of deflection amount should be carried out after completion of the trial running for at least 5 minutes with the new belt installed to the engine.



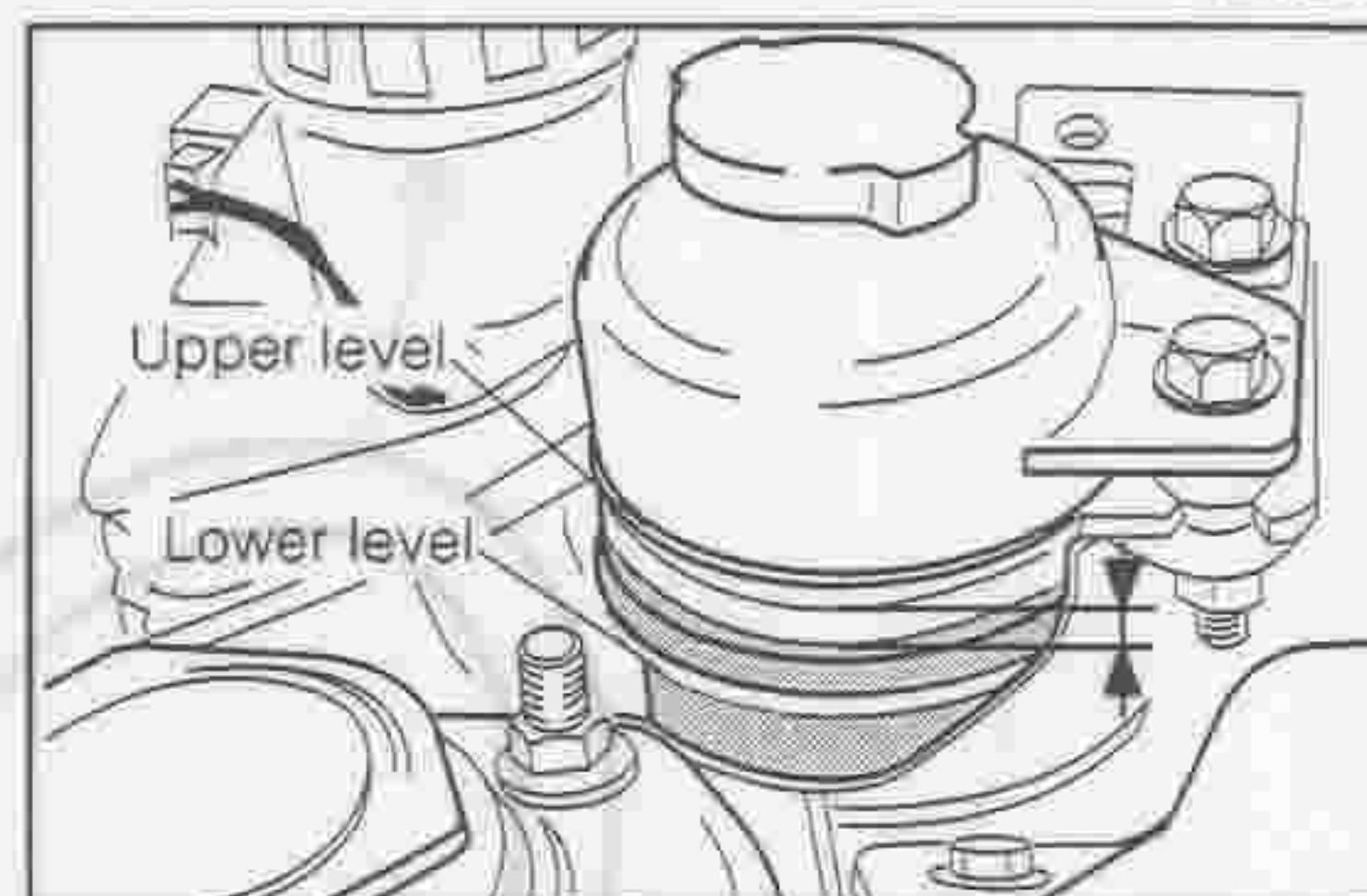
LSR00006-00005

POWER STEERING PUMP FLUID

- Check to see if the operation fluid of the power steering pump satisfies the specified value indicated on the reservoir tank.

NOTE:

- The measurement should be carried out with the vehicle placed on a level floor and its engine in a stopped state.
- Make sure that the fluid level drops 4 to 5 mm when the steering wheel is turned fully to the right or the left.
- When you notice the fluid level varies more than 5 mm, check the piping.

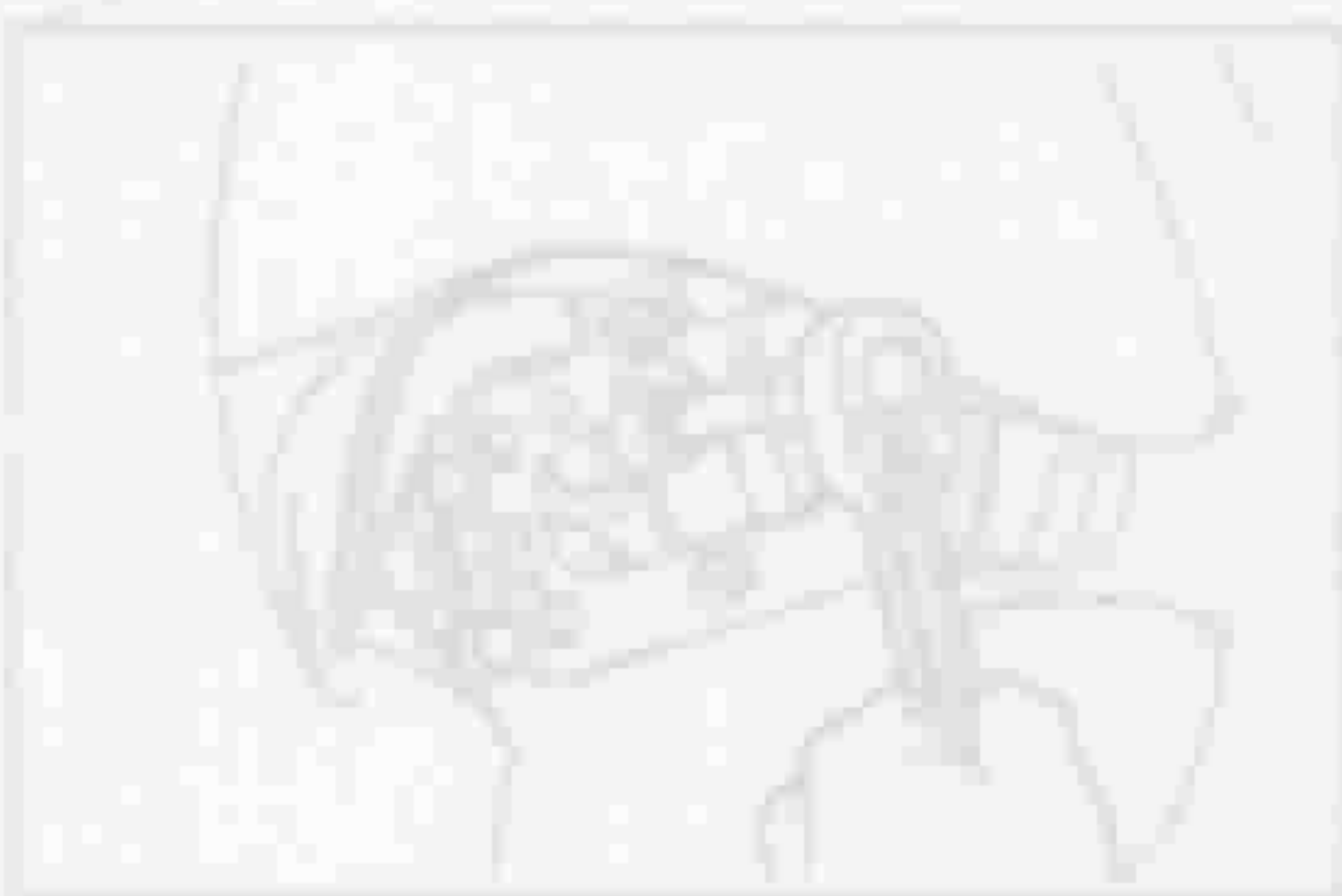


LSR00007-00006

- If bubbles or whitish cloudy state is observed in the power steering pump fluid inside the reservoir tank, check the pump and pipings.

NOTE:

- In cases where the power steering pump is malfunctioning, a whitish cloudy state will be observed when the engine revolution speed is raised rapidly. The measurement of the power steering pump fluid pressure, which will be described later, makes it easier to find causes.

REMOVAL
LSR00008-00000

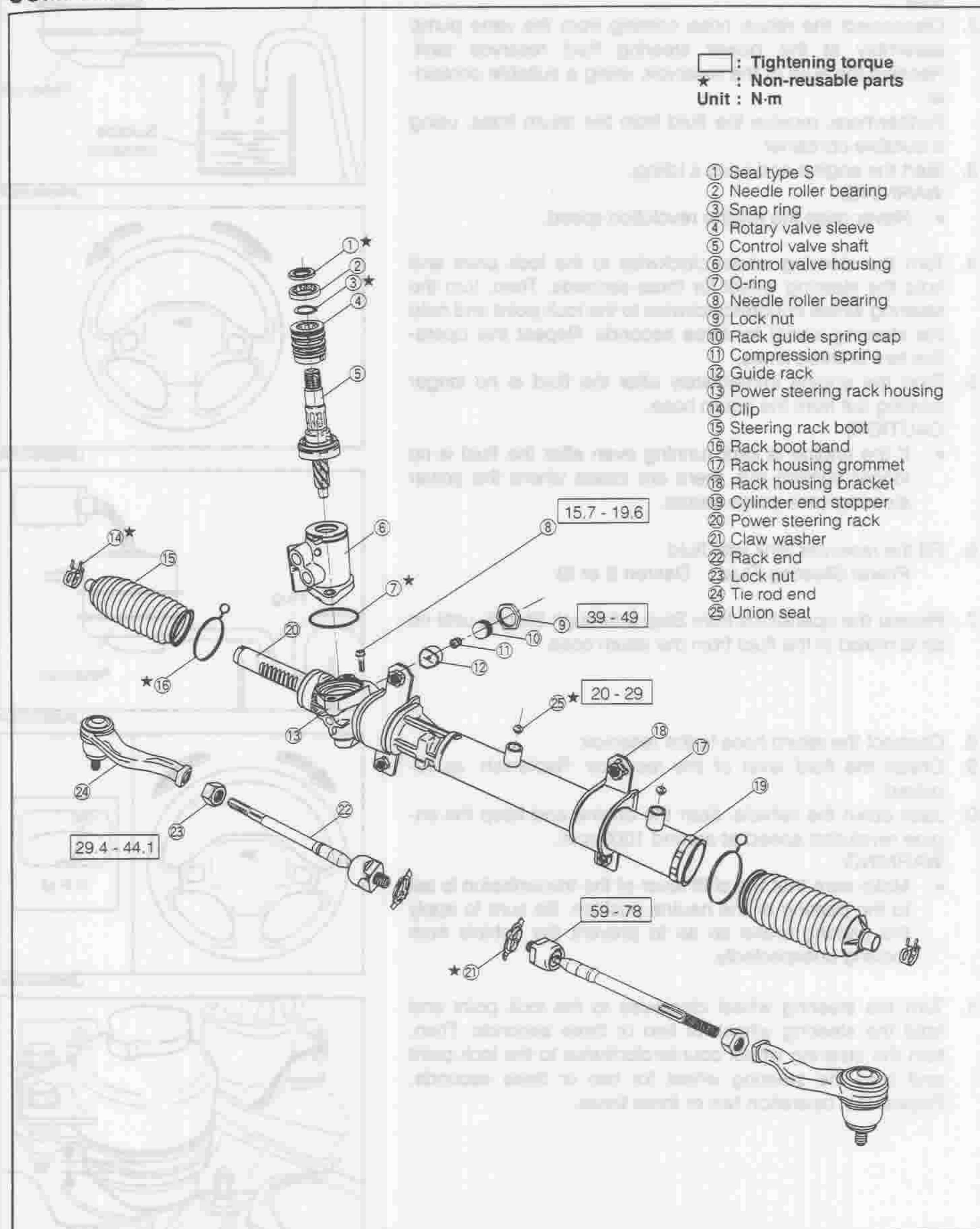
1. Remove the power steering pump from the engine.
2. Remove the power steering pump from the engine.
3. Remove the power steering pump from the engine.

4. Remove the power steering pump from the engine.
5. Remove the power steering pump from the engine.
6. Remove the power steering pump from the engine.

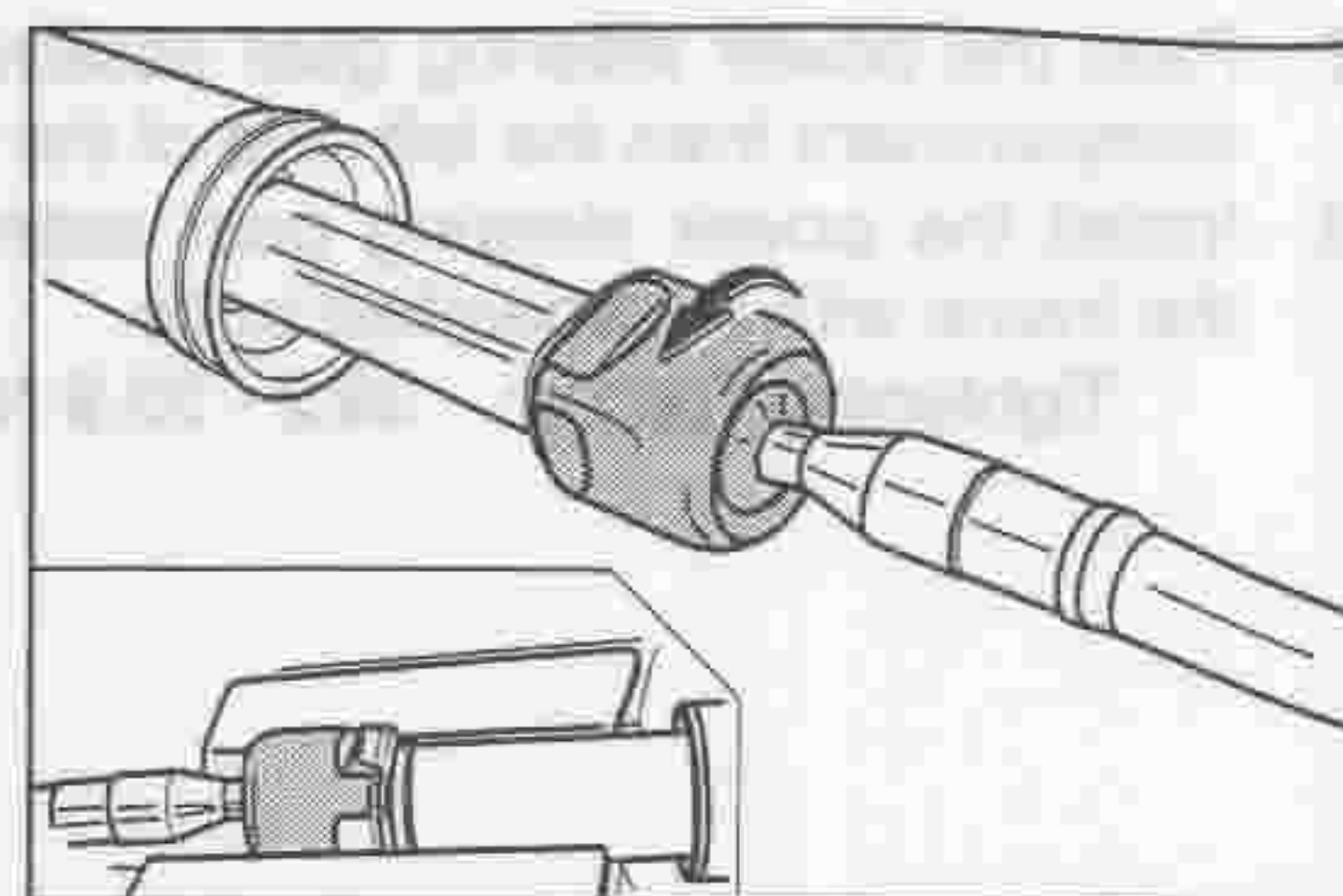
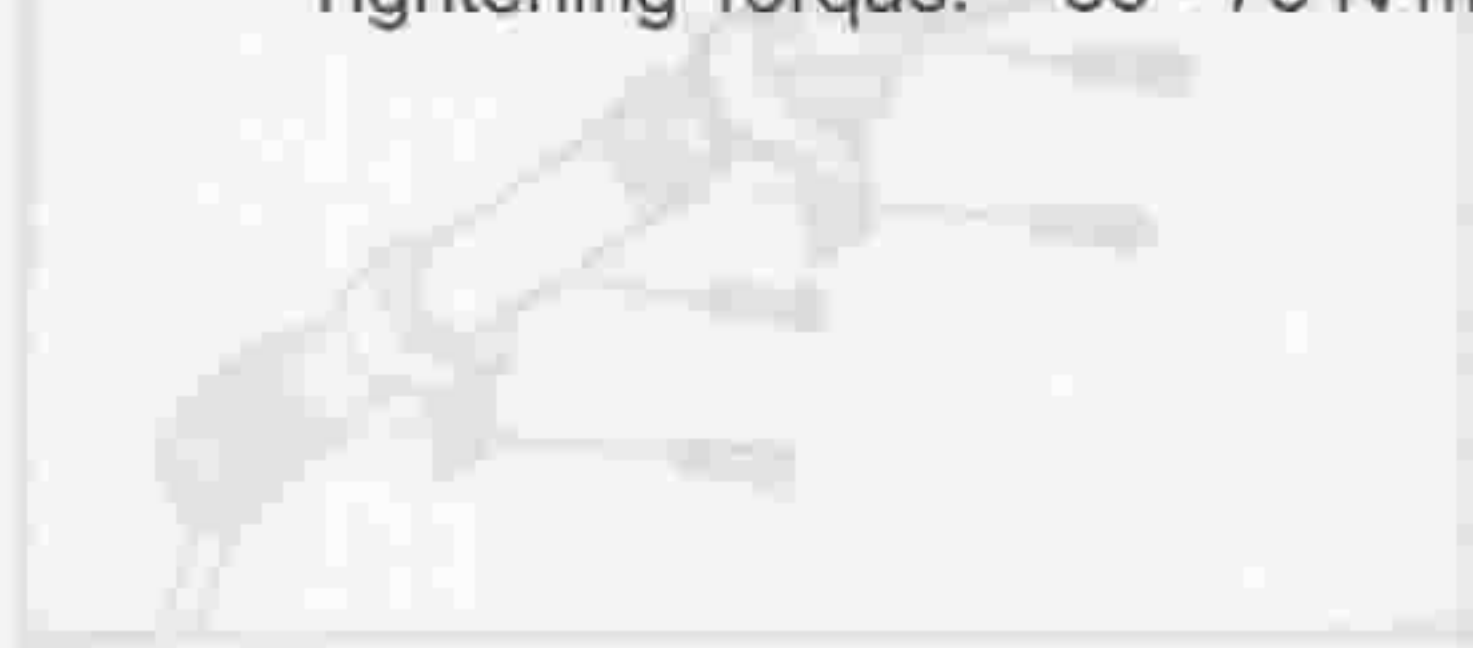
7. Remove the power steering pump from the engine.
8. Remove the power steering pump from the engine.
9. Remove the power steering pump from the engine.

10. Remove the power steering pump from the engine.
11. Remove the power steering pump from the engine.
12. Remove the power steering pump from the engine.

POWER STEERING GEAR COMPONENTS

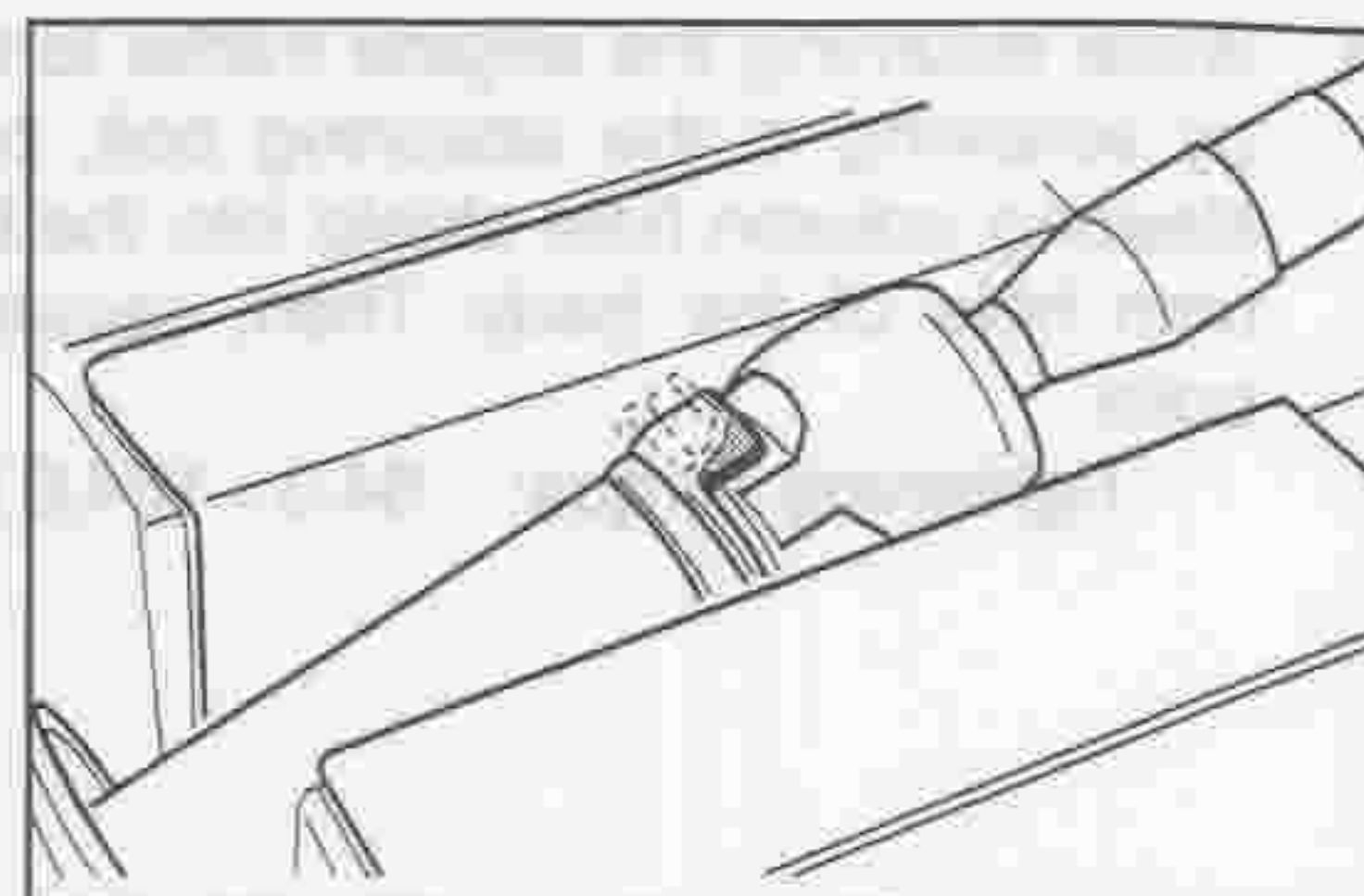
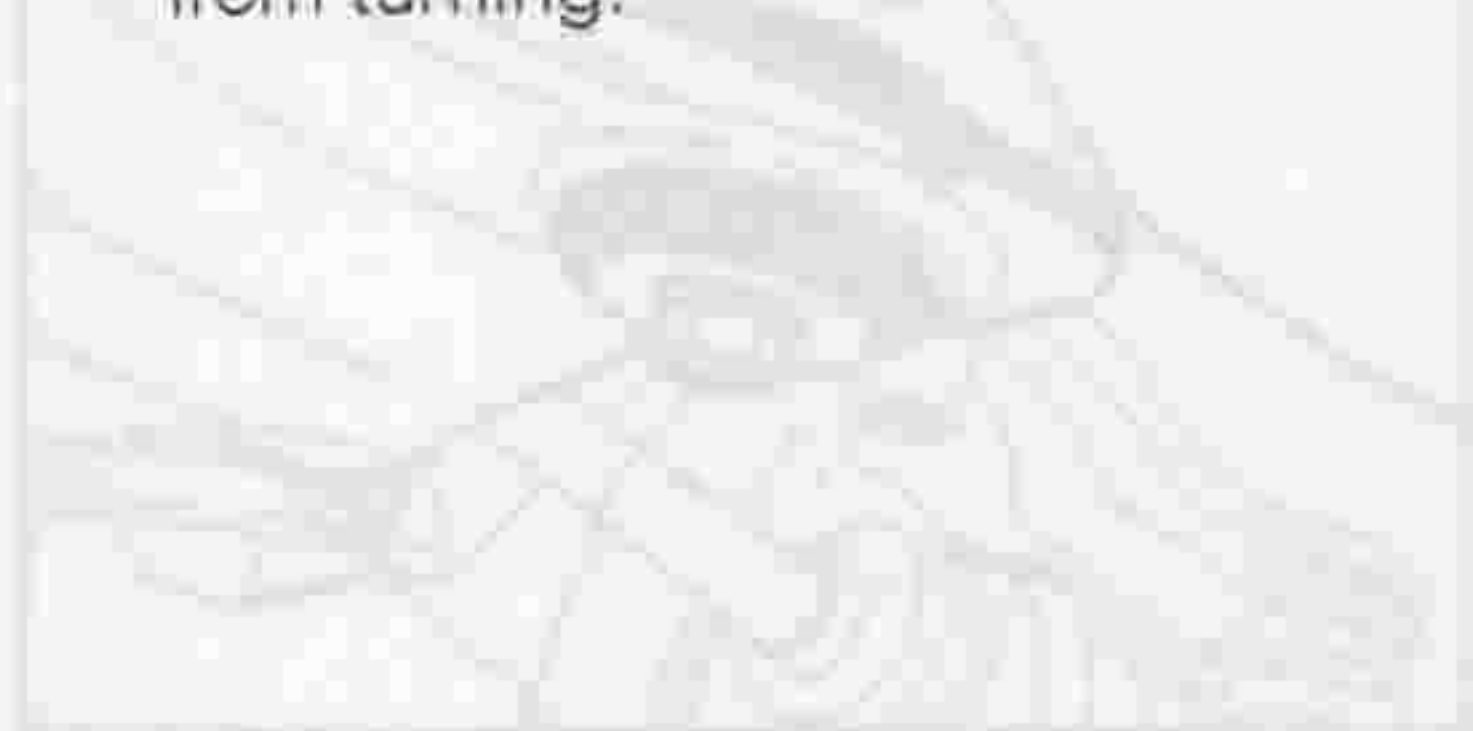


14. Clamp the rack end in a vice in order to prevent the rack end from turning. Then, install the claw washer and rack end to the rack at the opposite side.
Tightening Torque: 59 - 78 N·m



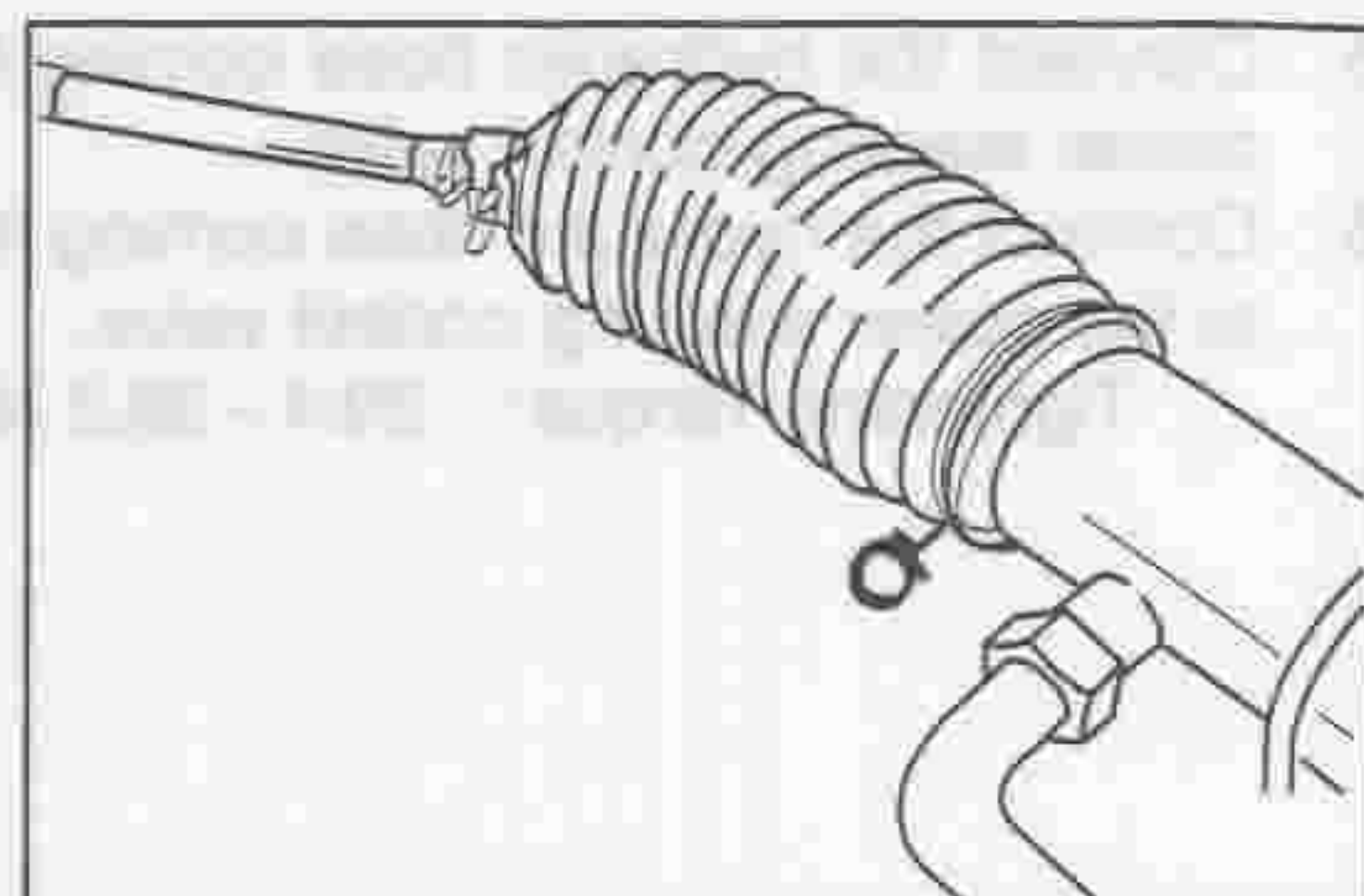
LSR00090-00087

15. Bend the tip end of the claw washer, using a brass bar in combination with a hammer, in order to prevent the washer from turning.



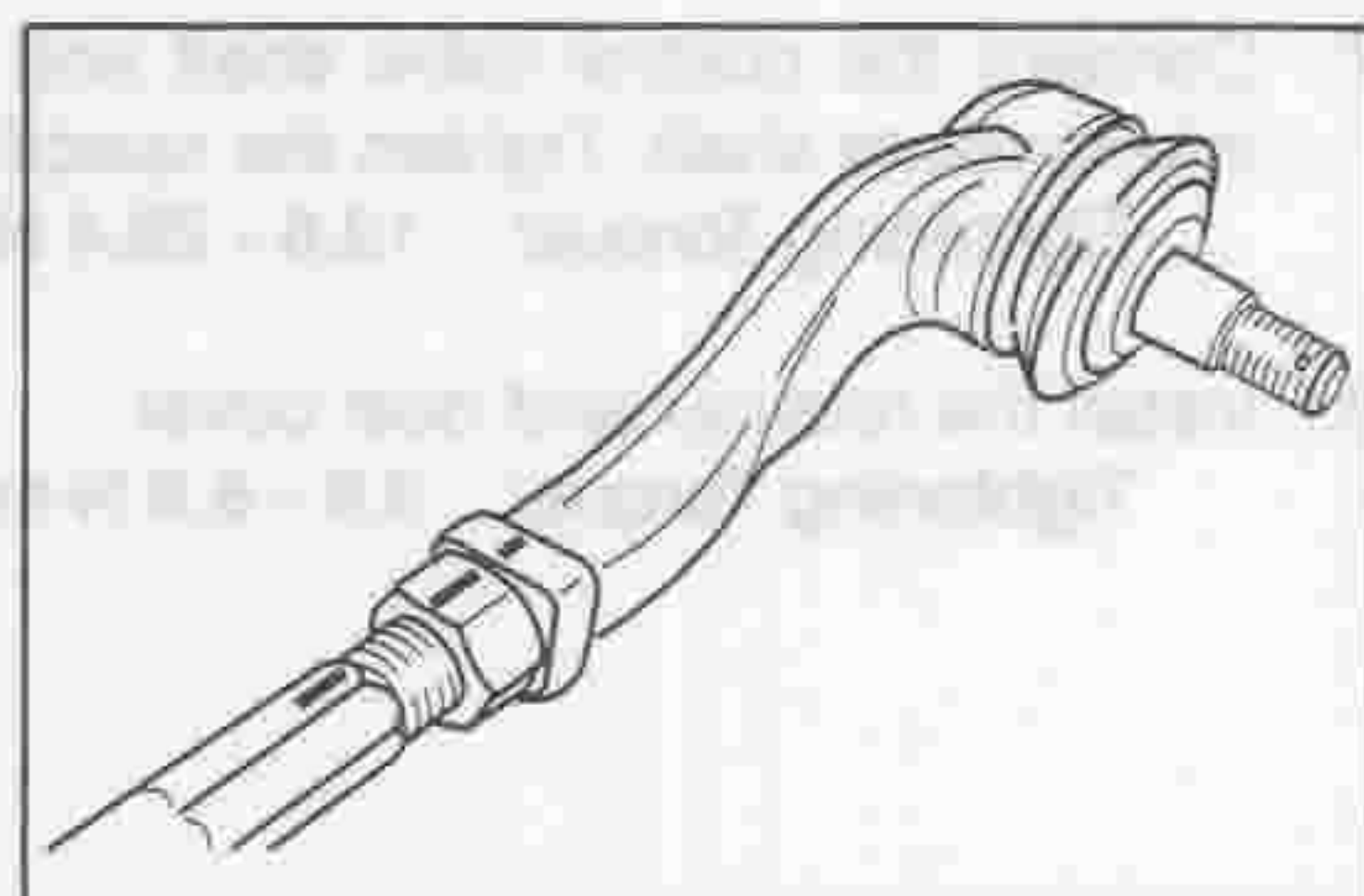
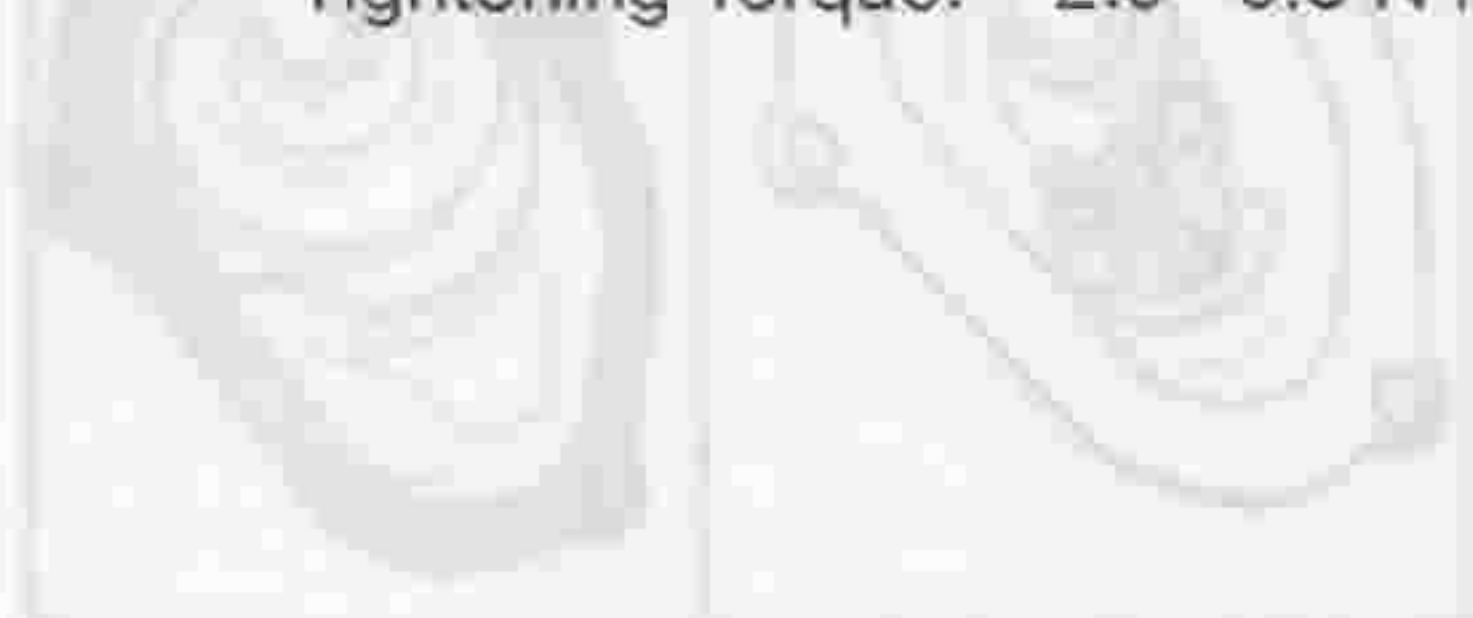
LSR00091-00088

16. Install the boot to the rack end and secure the boot with a boot band.



LSR00092-00089

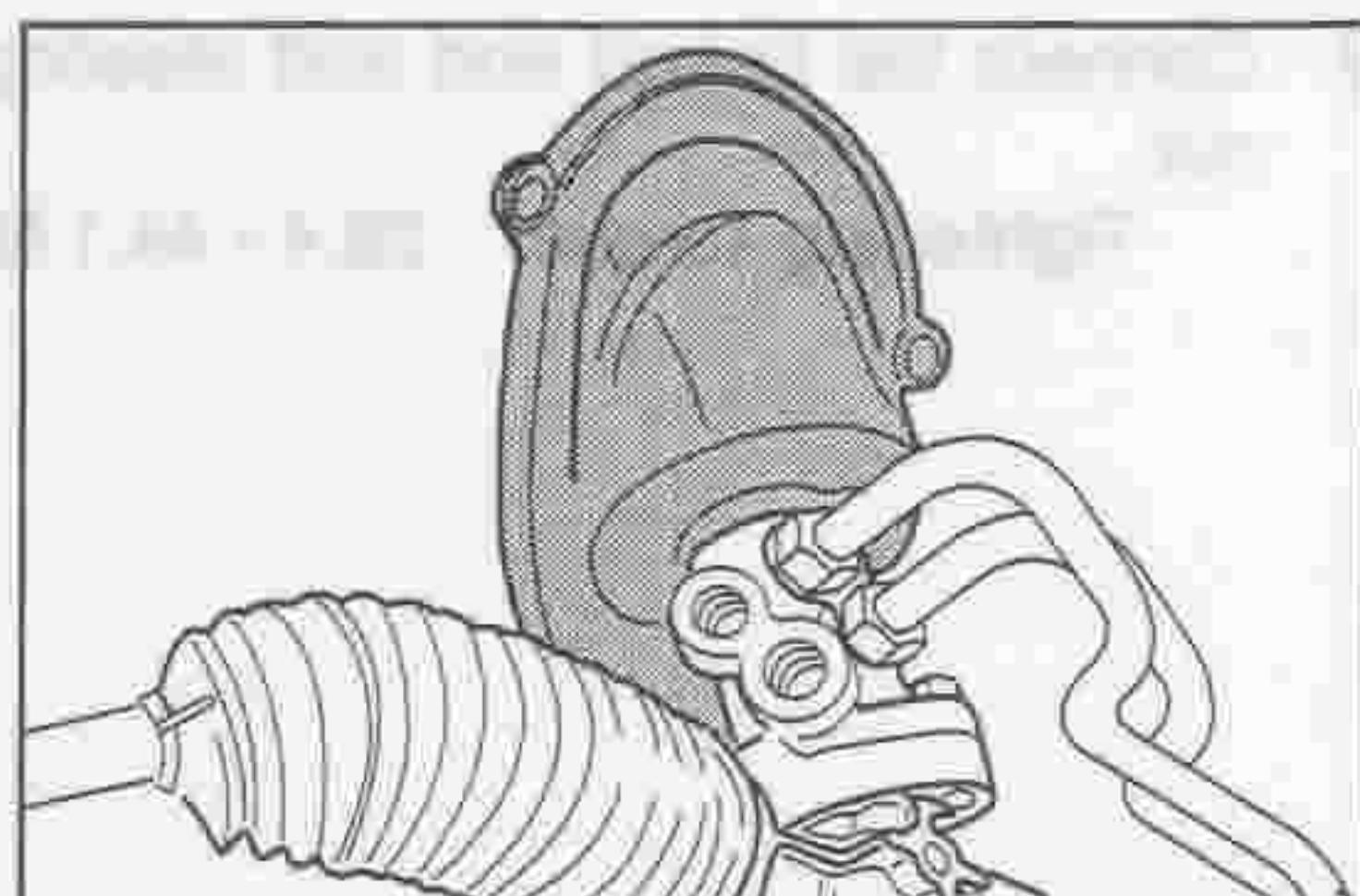
17. Install the lock nut and tie-rod end to the rack end. Temporarily tighten the lock nut at a place where a mating mark has been put.
Tightening Torque: 2.9 - 9.8 N·m



LSR00093-00090

INSTALLATION

1. Install the steering column hole shield to the power steering rack housing.



LSR00094-00091

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