

LAND CRUISER

AIR CONDITIONER

ALL SEASON TYPE/FJ-62,HJ-60·61 Series

INSTALLATION MANUAL

FOREWORD

This manual has been published to explain how to install the air conditioner into the TOYOTA LANDCRUISER FJ62, HJ60, 61.

When installing the air conditioner, installation should be done as described in this manual. Improper installation will reduce both the air conditioner and vehicle performance.

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GENERAL INFORMATION

1. PREPARATIONS BEFORE INSTALLATION

(1) Vehicle inspection and Adjustment

Prior to installing the air conditioner, make the following inspections and/or adjustments.

- (a) Engine Ignition Timing (Engine Injection Timing)
- (b) Engine Cooling System
- (c) Battery Electrolyte and Charging System
- (d) Passenger Compartment Seal
- (e) Fuel System
- (f) General Vehicle Inspection

(2) Preparations of Air Conditioner Parts

Unpacking the kit, lay all parts out in order of installation.

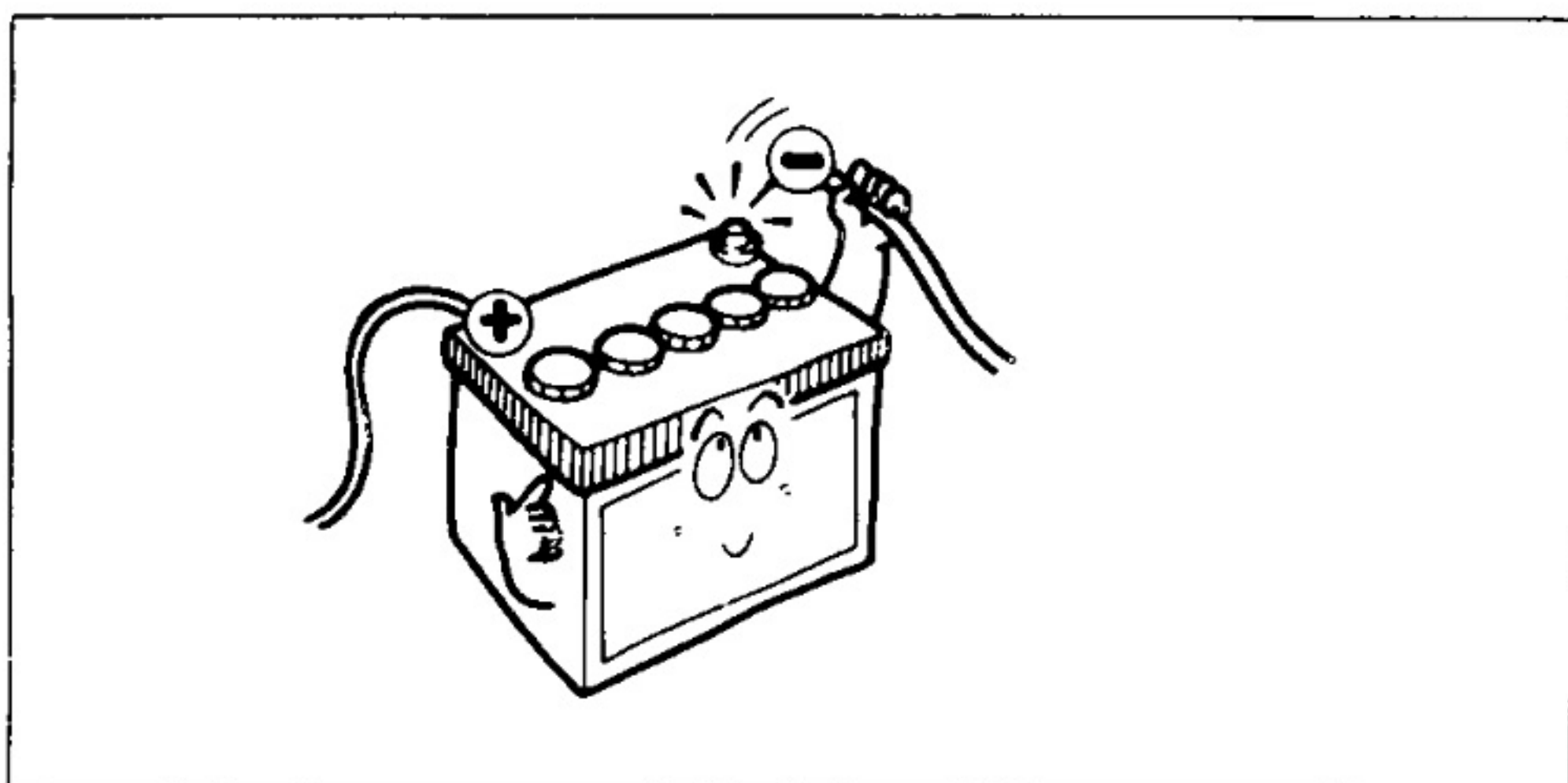
Check entire contents of the kit for missing or defective components.

Installing the air conditioner, use guard covers and seat covers for protection.

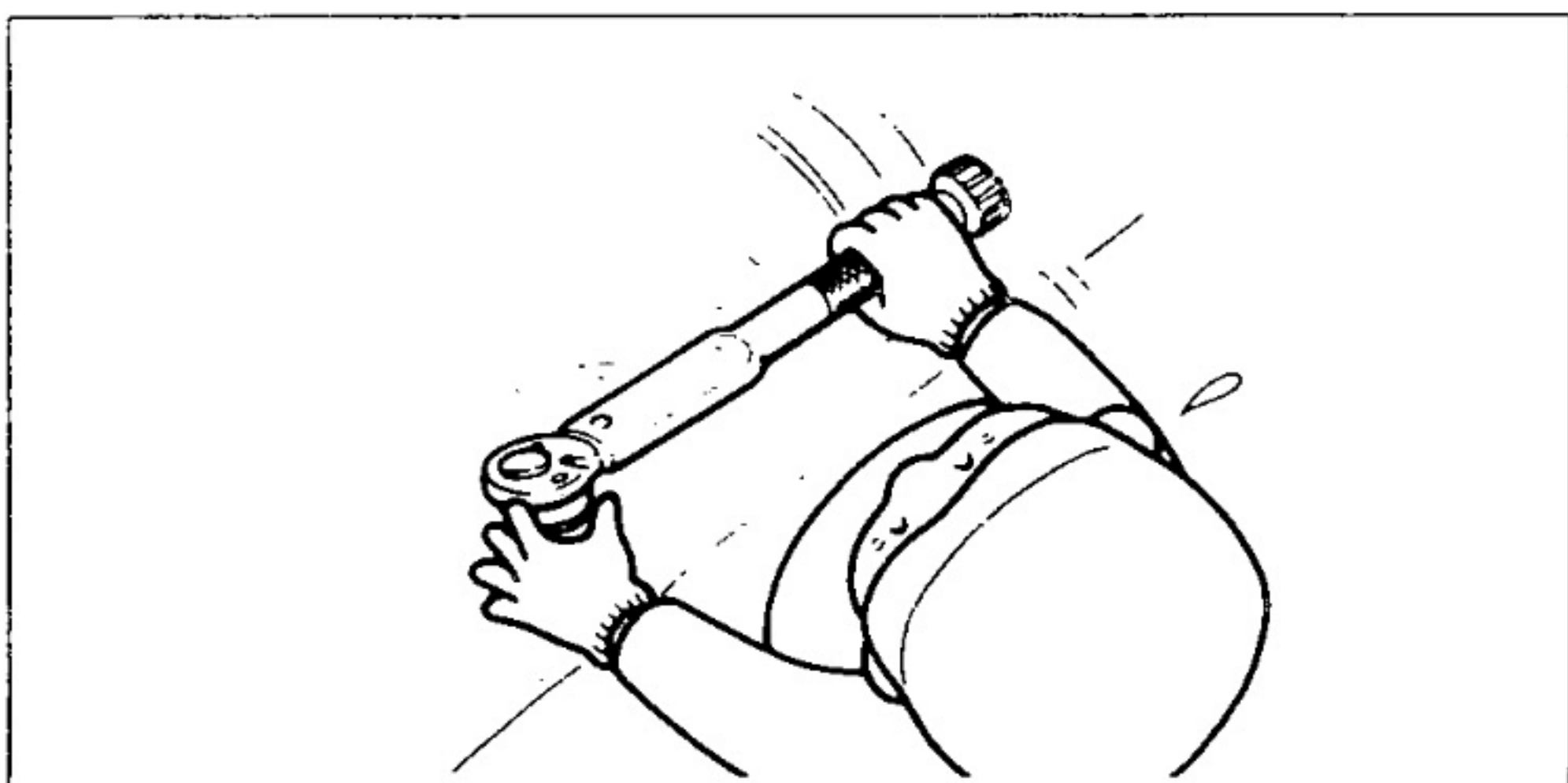
(3) Installation Tool

- (a) Vacuum Pump
- (b) Air Conditioner Service Tools
- (c) Torque Wrench
- (d) Hand Service Tools

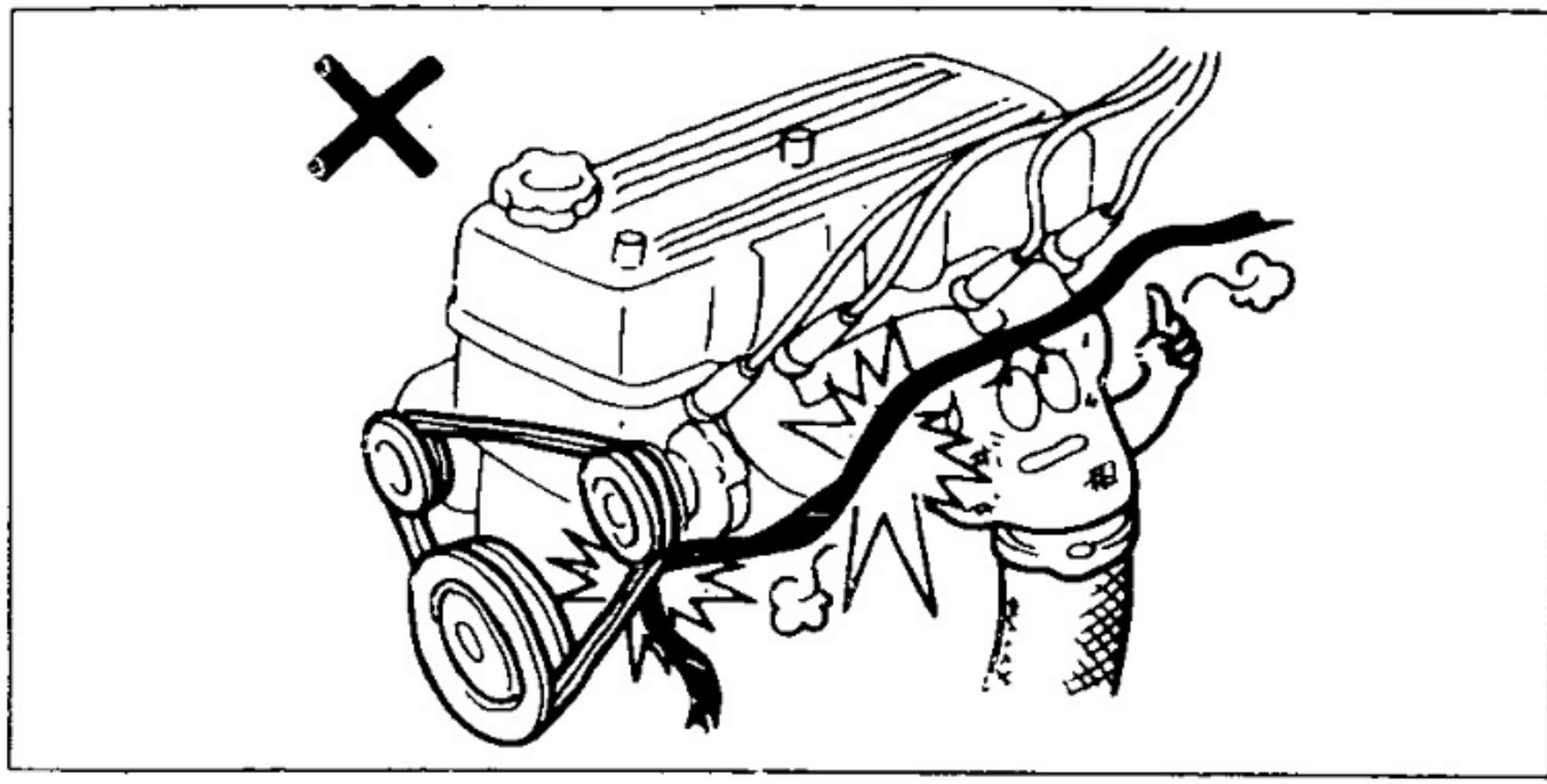
2. SERVICE PRECAUTIONS



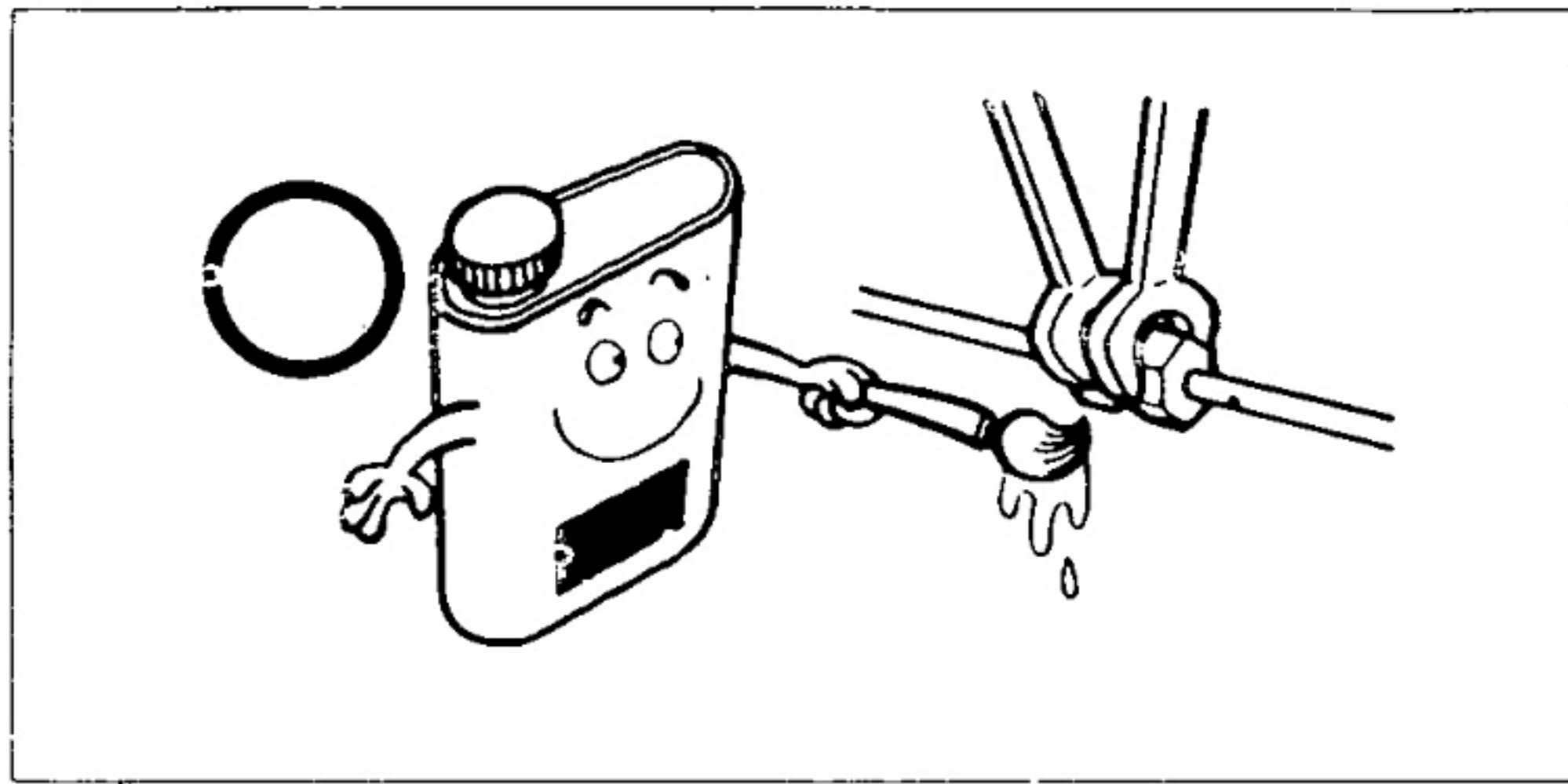
- (1) Disconnect the ground cable at the battery negative terminal.



- (2) Parts mounted on the engine must use bolts provided in the kit and be torqued to specifications.

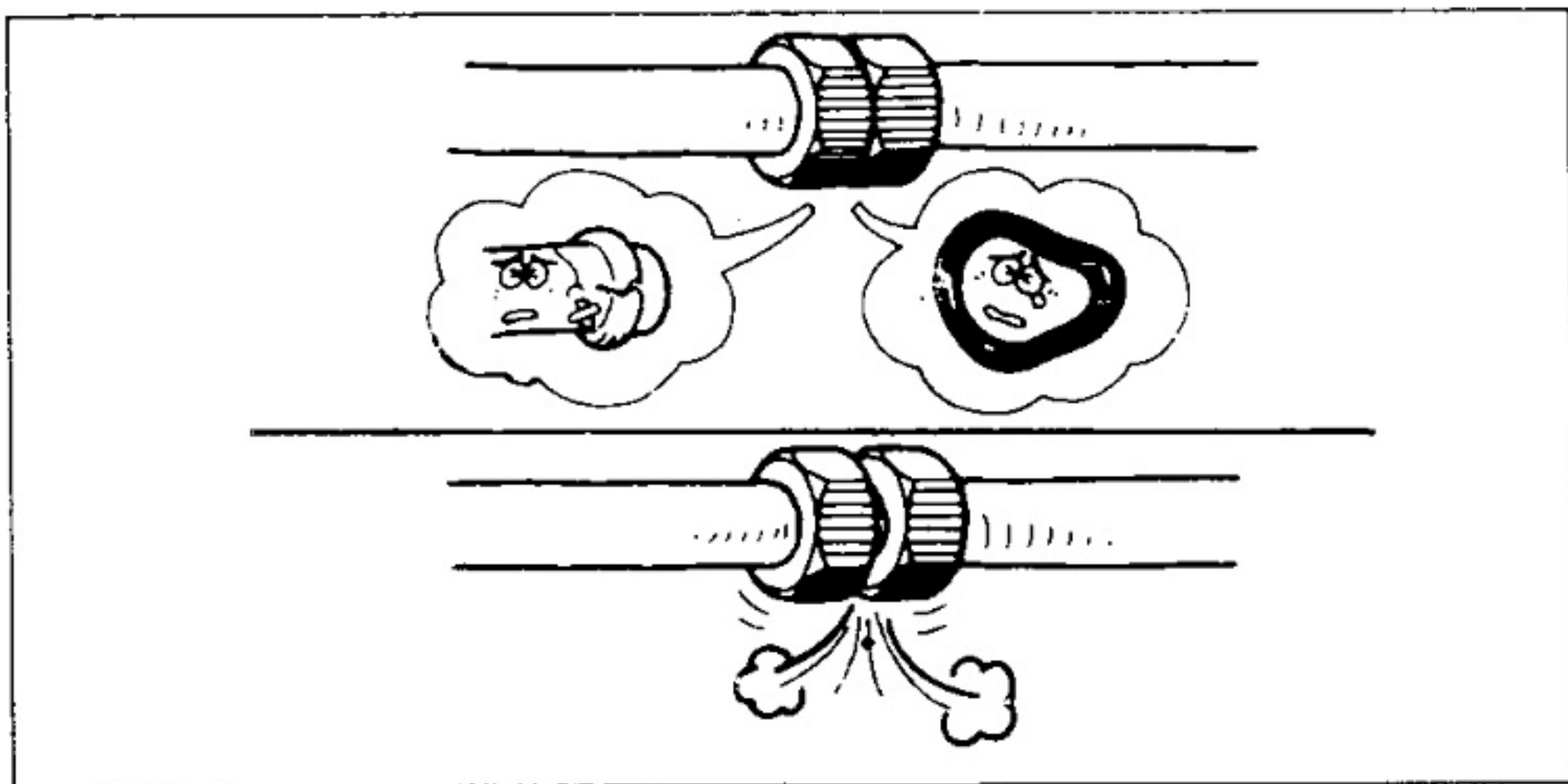


(3) Installing air conditioning lines and A/C harnesses route properly to avoid interference with surrounding parts.

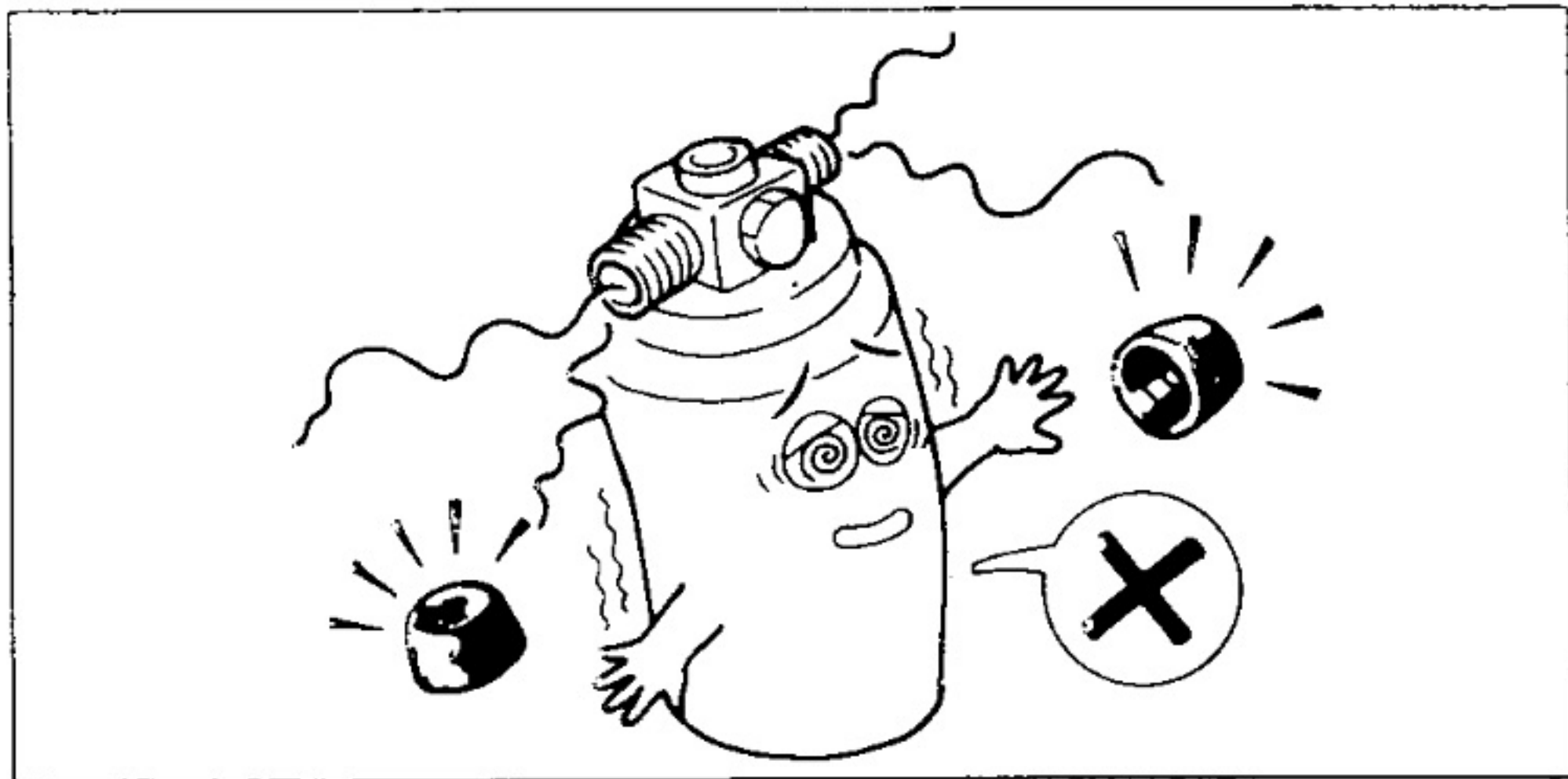


(4) Before making any hose and tube connections, apply a few drops of refrigeration oil to the seat of O-ring.

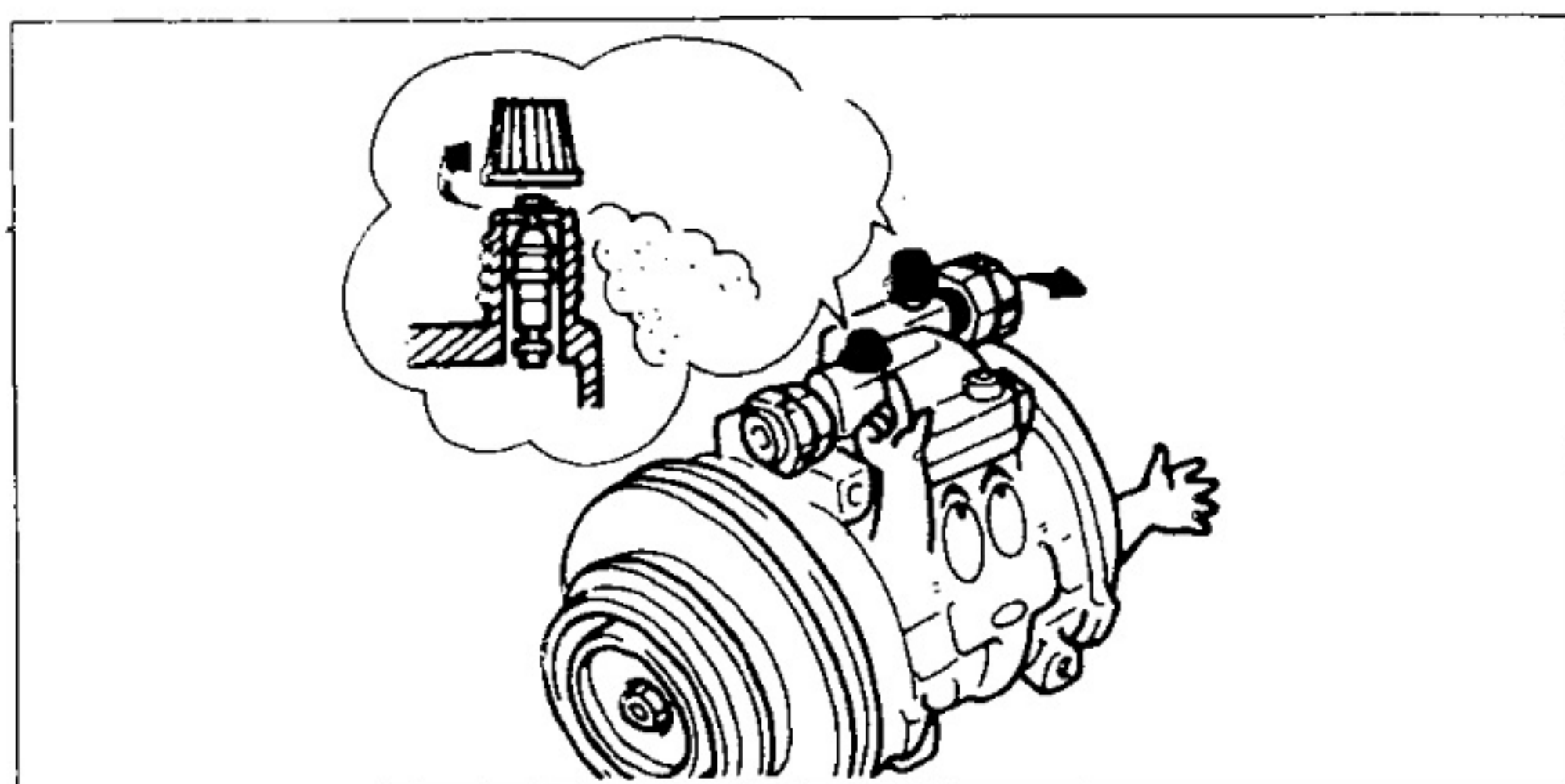
(5) Tightening or loosening line fittings, use two wrenches to prevent the pipes from twisting.



(6) Tighten coupling nuts according to specified torque.



(7) Do not remove caps from fittings until each component is ready for connection.

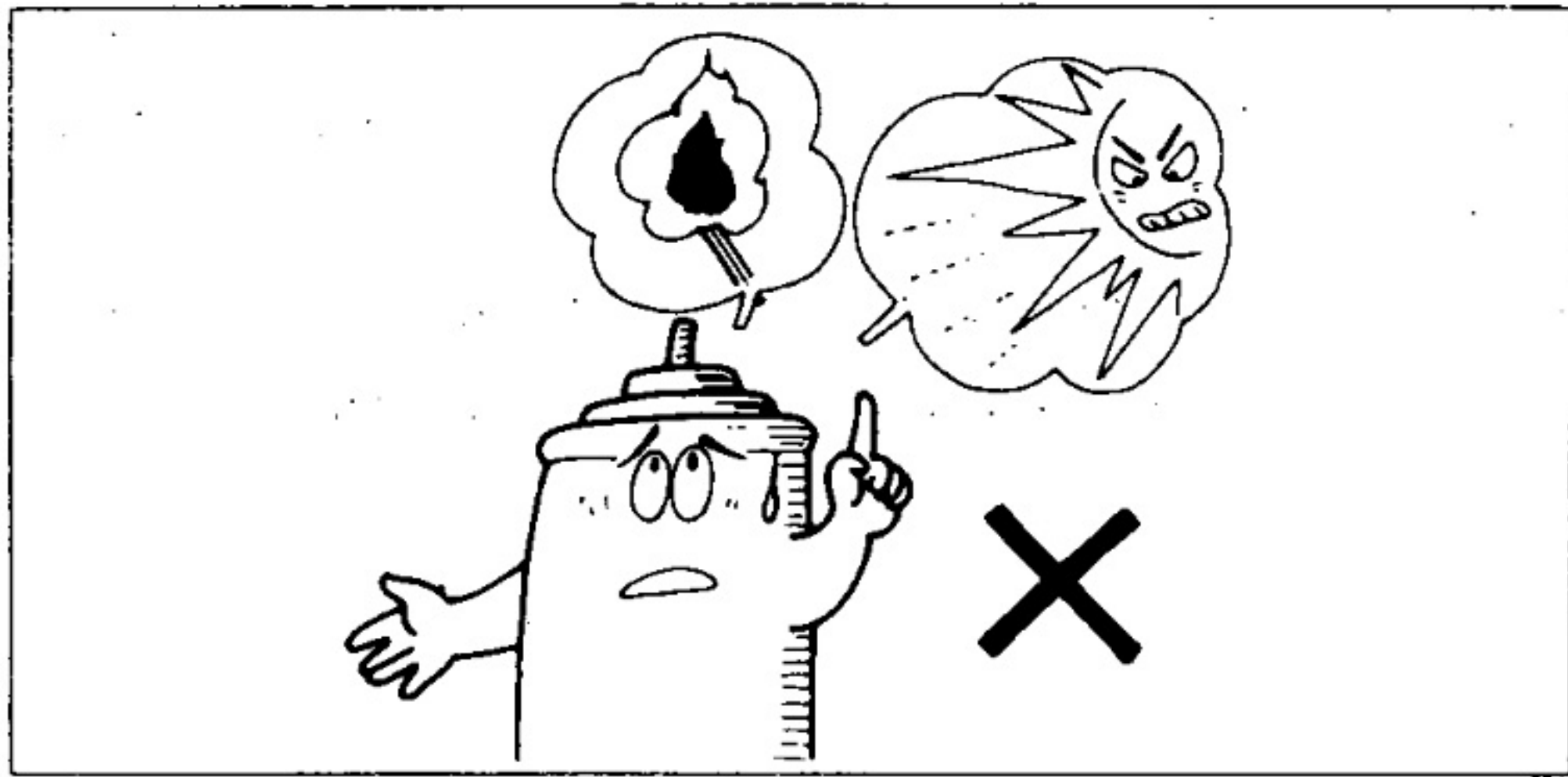


CAUTION

Remove caps from compressor slowly to allow refrigerant to escape. The compressor is shipped from the factory with a slight charge of refrigerant to prevent corrosion of seals.



(8) Handling the refrigerant R-12, wear eye protection and be careful that liquid refrigerant does not contact skin.



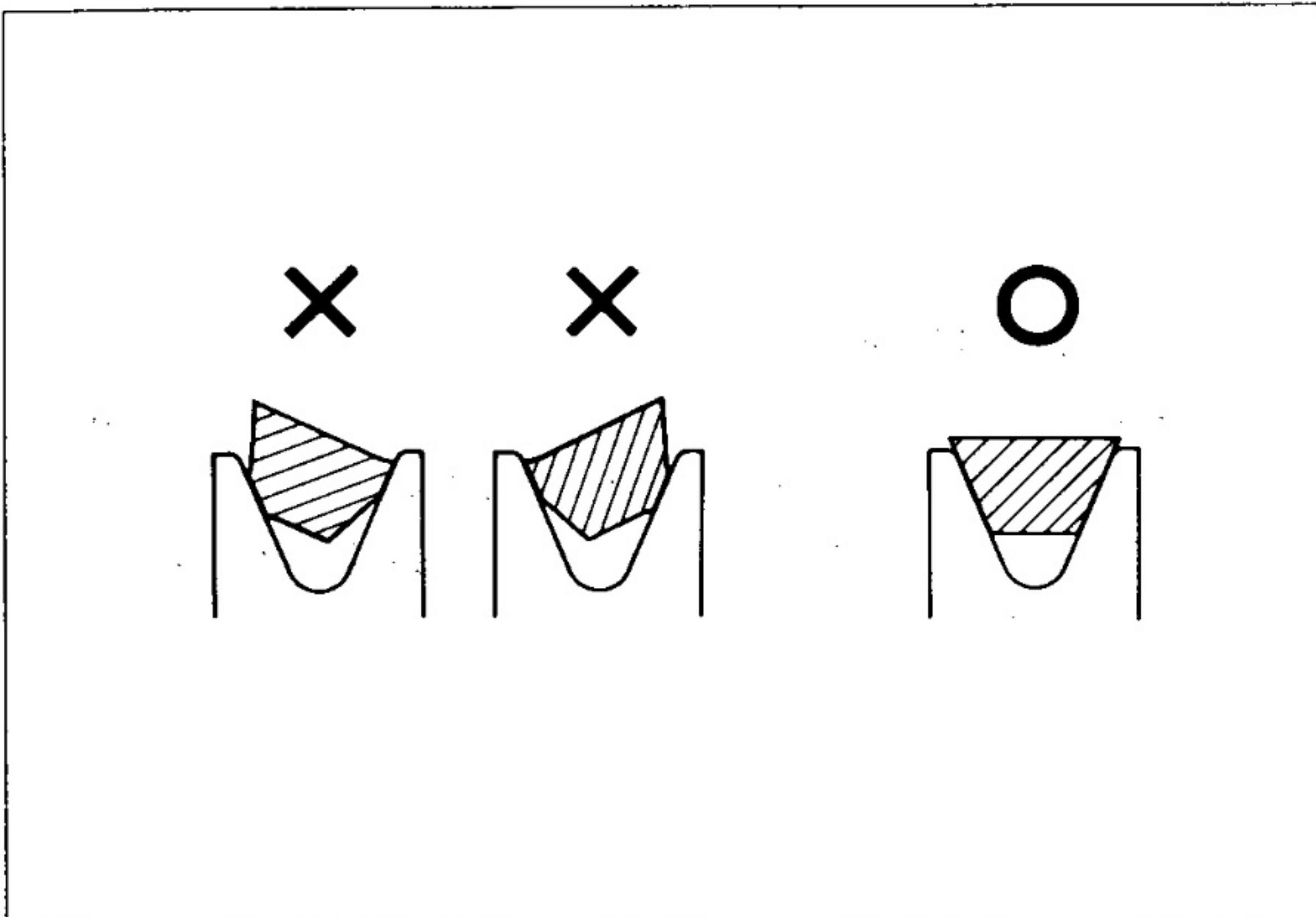
(9) Keep the refrigerant container (service drum) below 40°C (100 °F). Follow manufacturer's instruction.

3. WHEN INSTALLING

- (1) All instructions are given from the driver's point of view.
- (2) Figures in parenthesis indicate diameter and length of bolt stem.

Example: (a) **BOLT** (M6× \varnothing 16) means a hex head bolt which has 6mm thread diameter and 16mm in stem length.

(b) **SCREW** or **TAPPING SCREW** (M6× ϕ 16) means a round head screw which has a 6mm thread diameter and a 16mm-stem.



CAUTION

- 1) The V belt requires accurate tension adjustment; weak tension is likely to cause the belt whine, while excessive tension may result in damage to accessory bearing or the idle pulley bracket.
- 2) After installing the drive belt, check that it fits properly in the groove.

(3) TIGHTENING TORQUE

UNIT : kg • cm (ft-lbs) [N-m]

Dia.× Pitch	4T BOLT	6T BOLT	8T BOLT
M6×1.0	55 (4.0) < 5.0>	80 (5.8) < 8.0>	————— 300 (21.7) < 29.0>
M8×1.25	130 (9.4) <12.5>	195 (14.1) <19.0>	620 (44.9) < 61.0>
M10×1.25	260 (18.8) <26.0>	400 (29.0) <39.0>	1100 (79.6) <110.0>
M12×1.25	480 (34.8) <47.0>	730 (52.8) <71.0>	

1. INSTALLATION

1.1 INSTALLATION INSIDE THE PASSENGER COMPARTMENT

(1) REMOVAL OF PARTS

Before installing air conditioner components into the passenger compartment, the following parts should be removed.

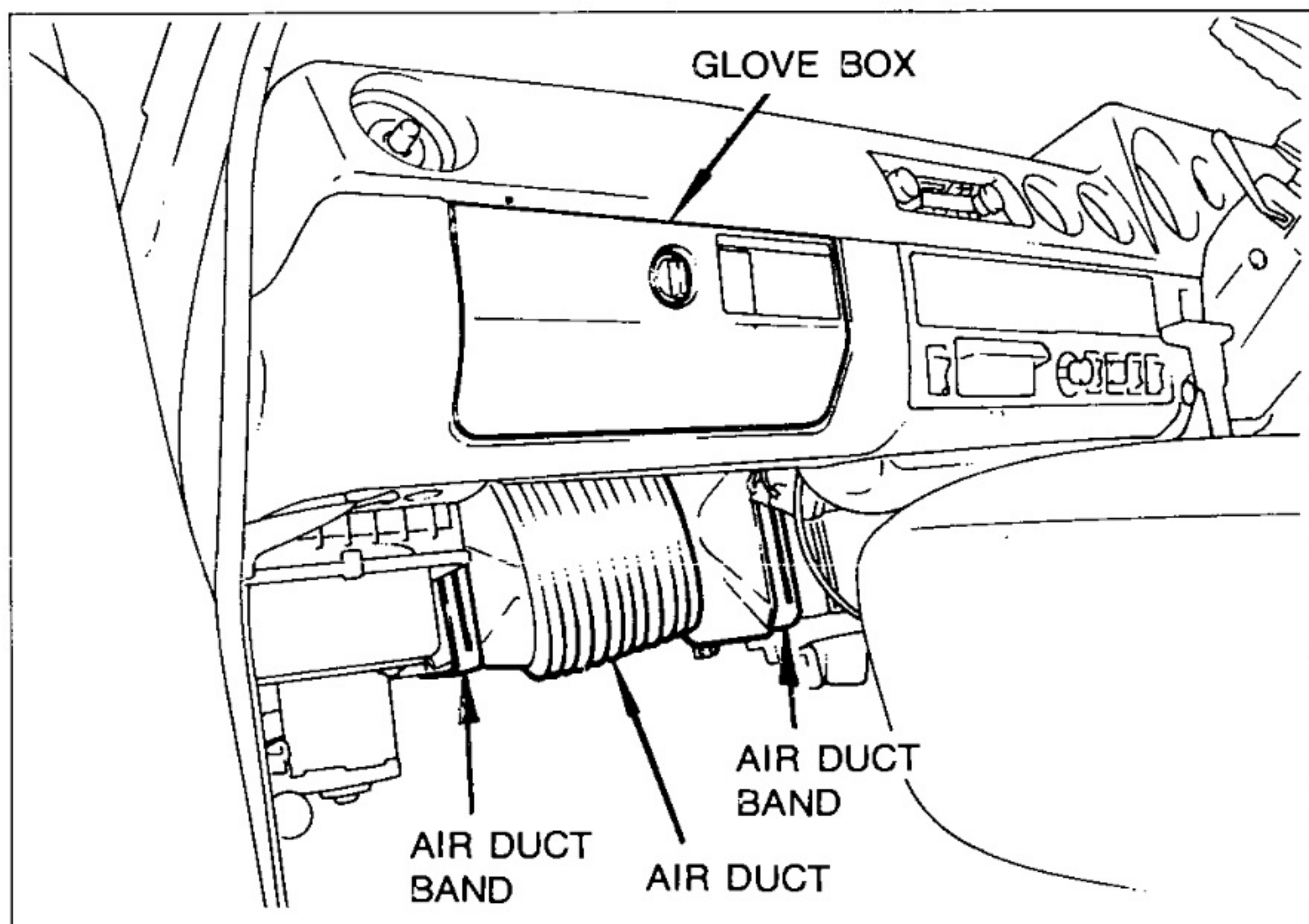


Fig.1

① PERMANENT REMOVAL

- (a) Air Duct.
- (b) Air Duct Bands.

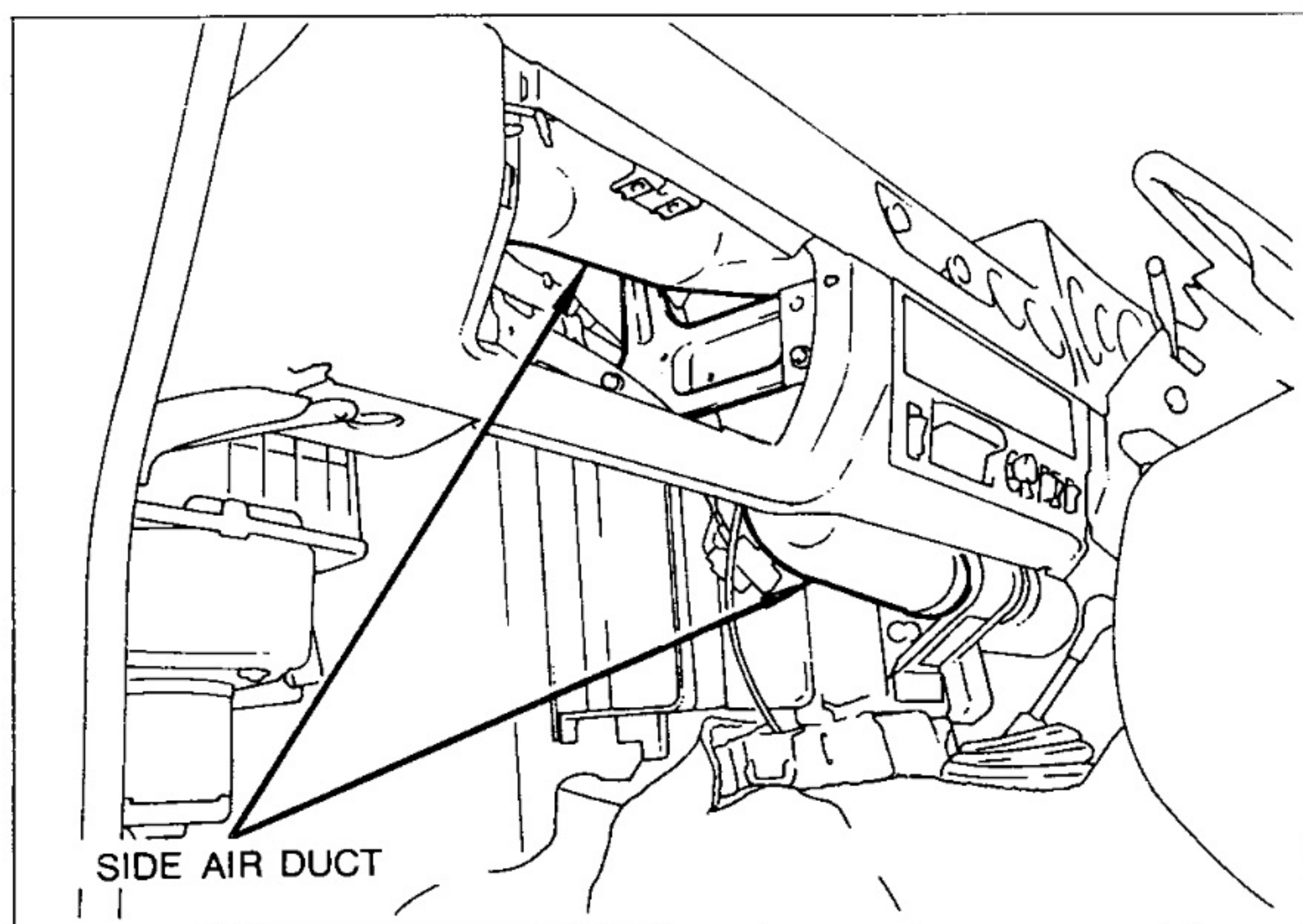


Fig.2

② TEMPORARY REMOVAL

- (a) Glove Box.
- (b) Side Air Duct.

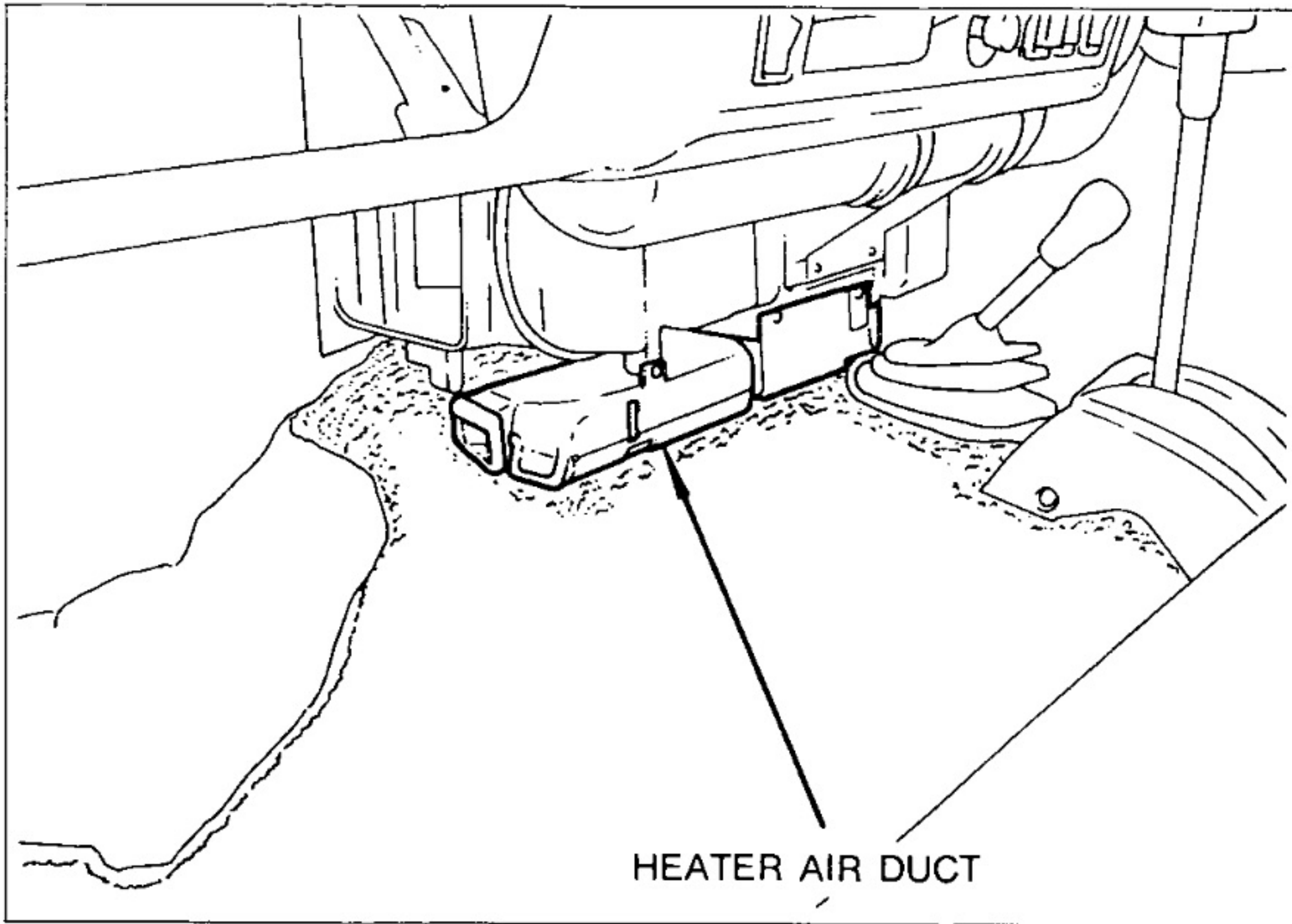


Fig.3

(c) Heater Air Duct.

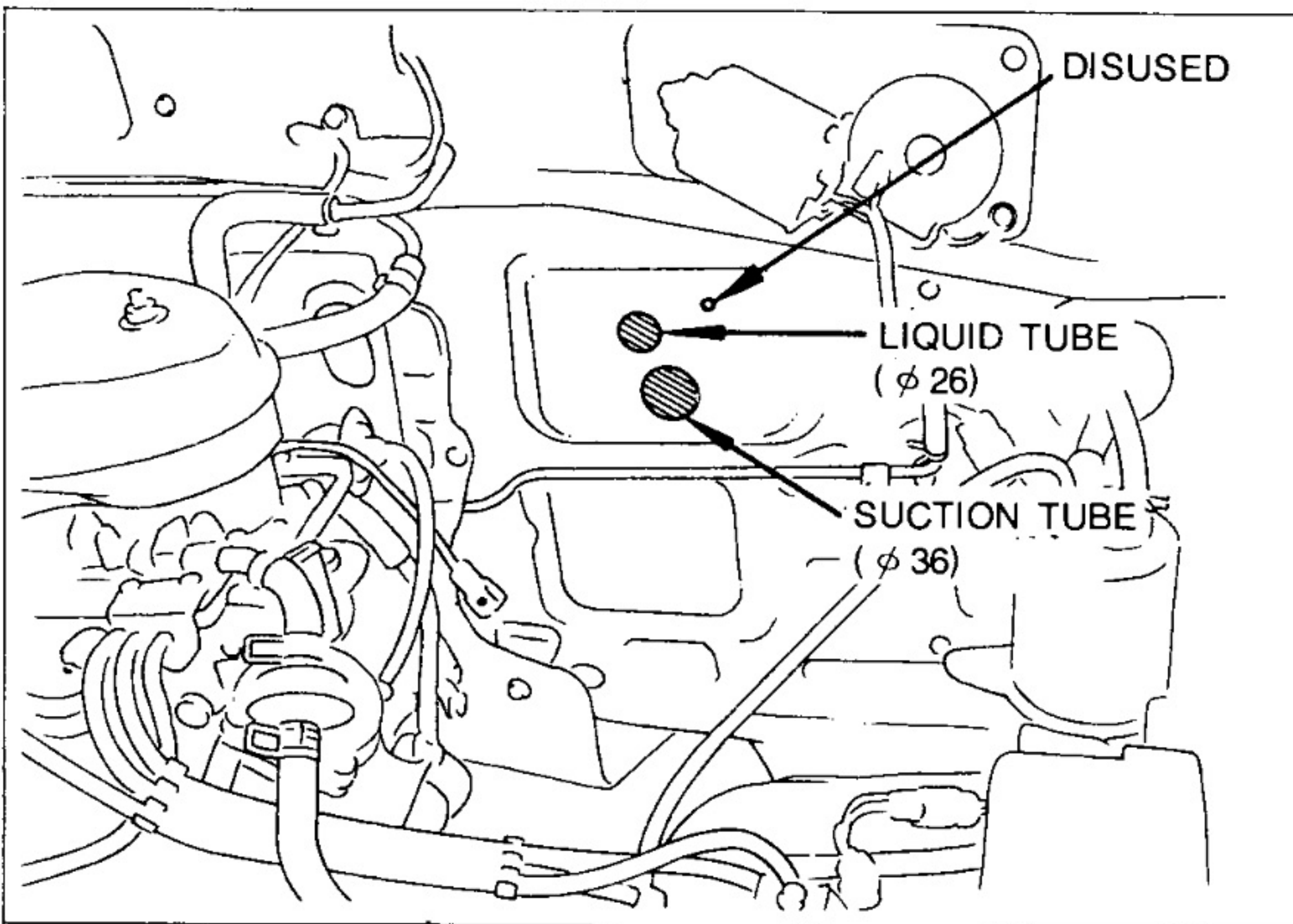


Fig.4

(2) FIREWALL

(a) Drill three holes on the firewall where indicated by centre punch marks.

NOTE

Drill the holes from inside the engine compartment except for the drain hose hole which is drilled from inside the passenger compartment.

CAUTION

Be careful not to drill through exhaust shield.

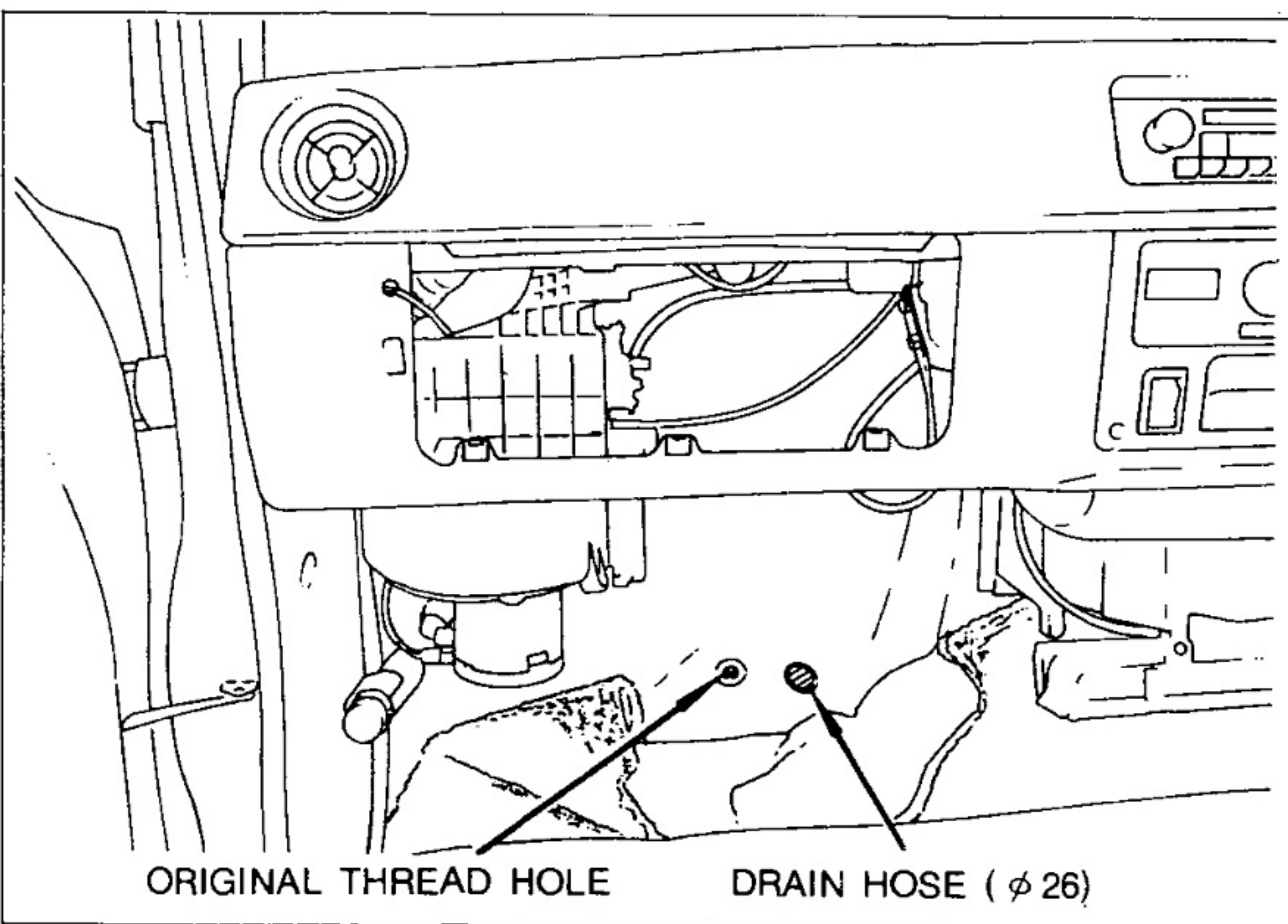


Fig.5

(b) To prevent injury, use a file to round off sharp edges.

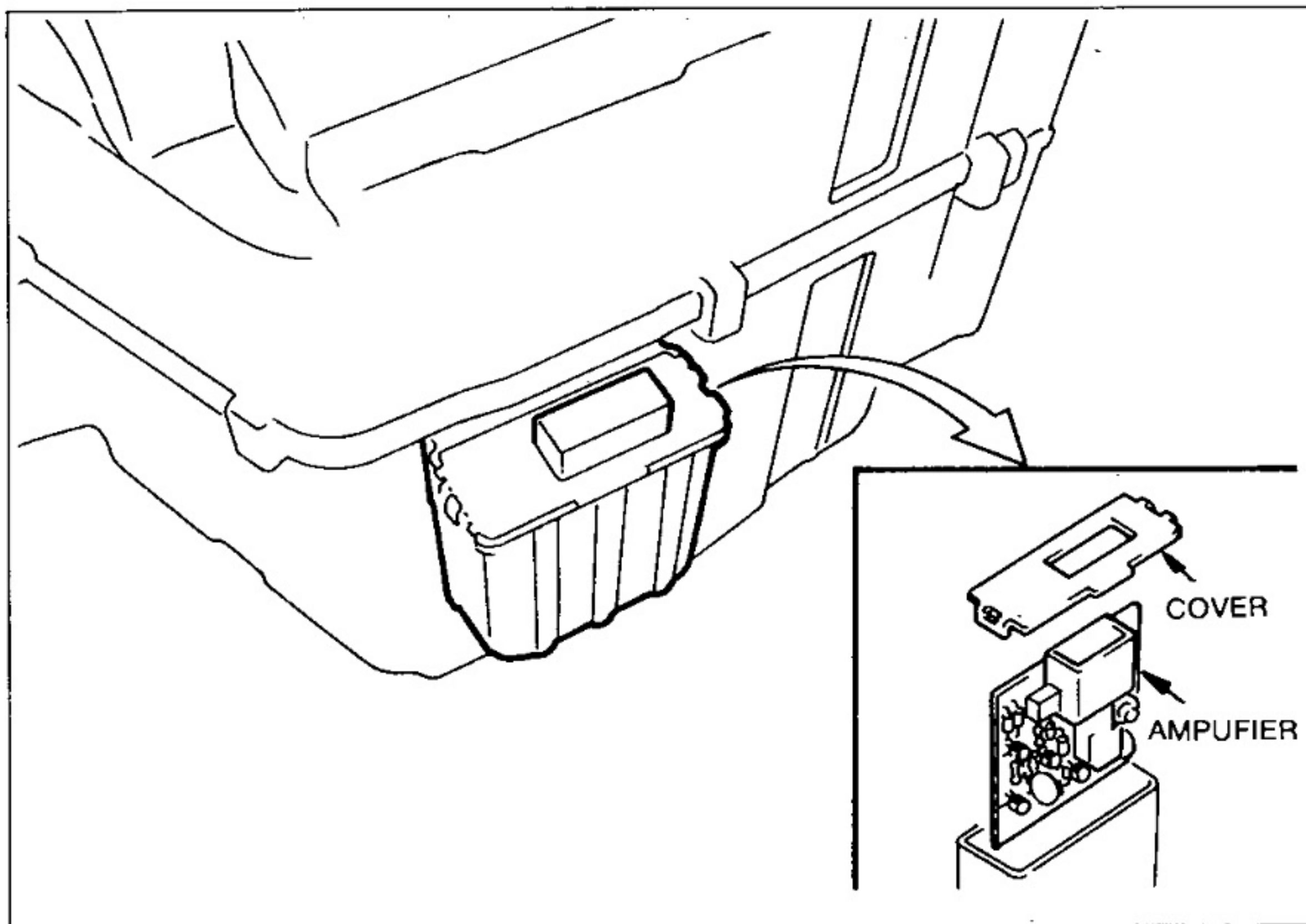


Fig.6

(3) AMPLIFIER

- (a) Fit the amplifier to the cooling unit.
- (b) Install the cover as shown in Fig. 6.

(4) A/C HARNESS

- (a) Install the A/C harness to the cooling unit.
See Fig. 7.

NOTE

The 1-P connector is not applicable to FJ series vehicles.

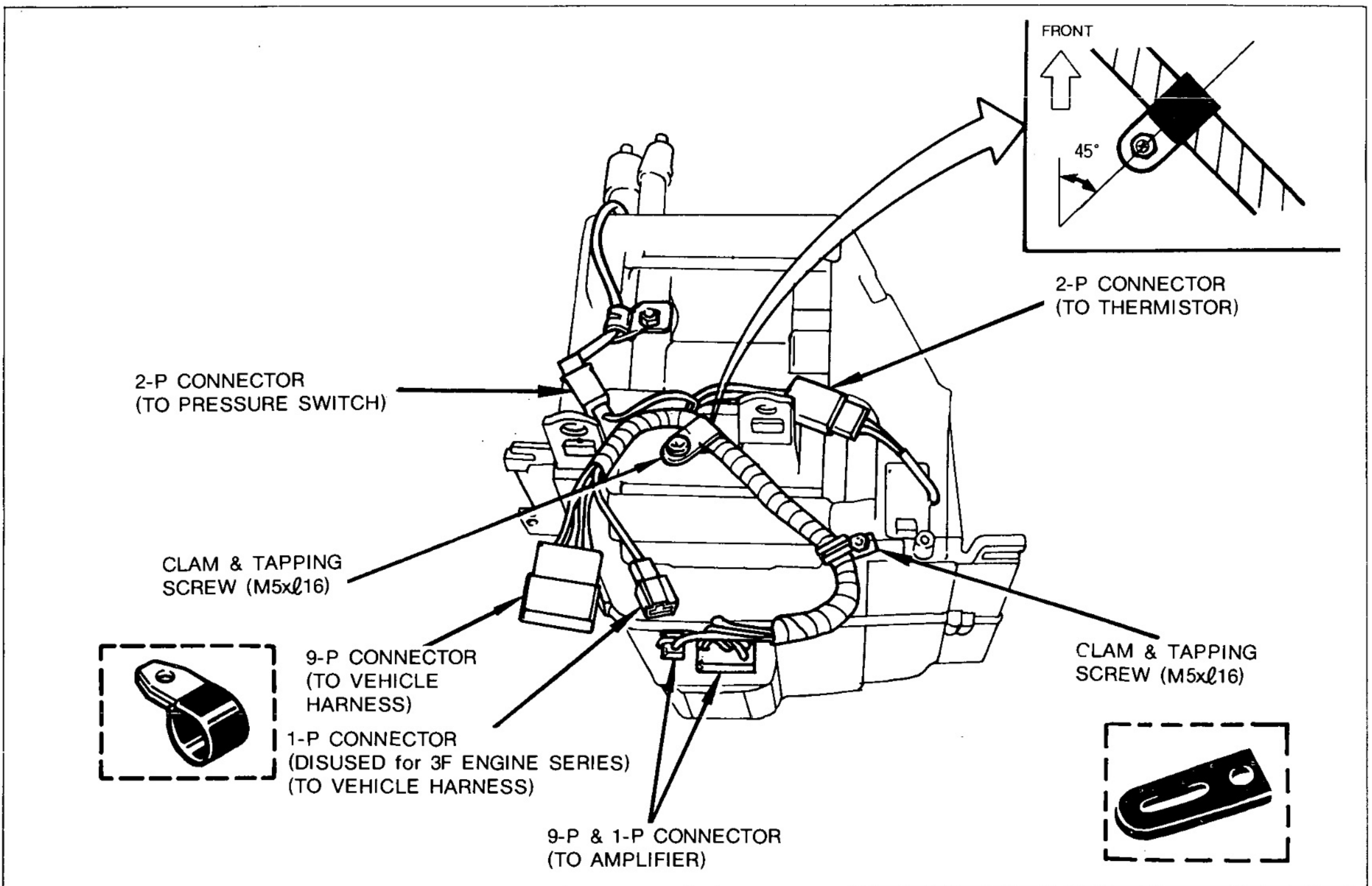


Fig.7

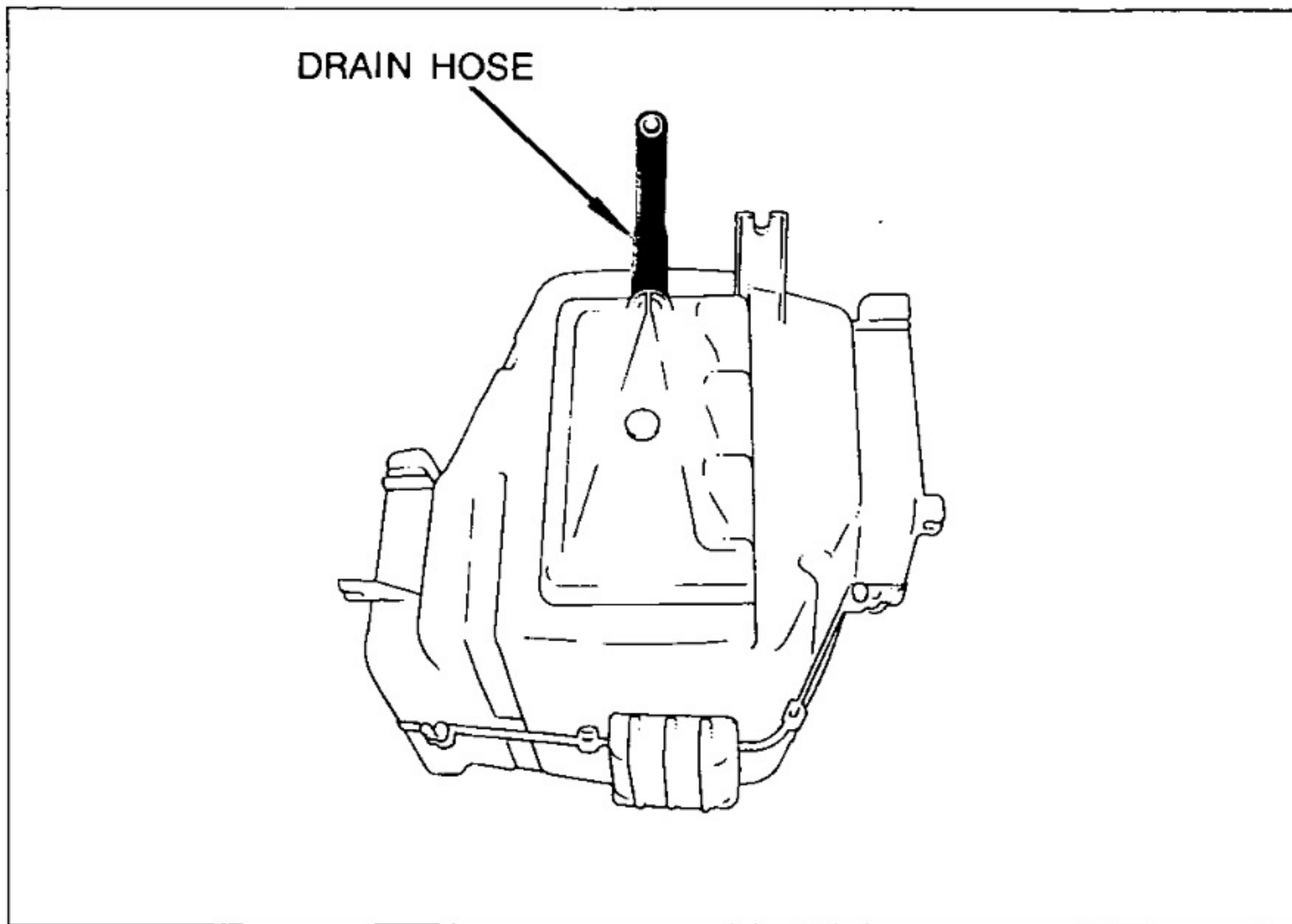


Fig.8

(5) DRAIN HOSE

- (a) Install the drain hose onto the cooling unit.

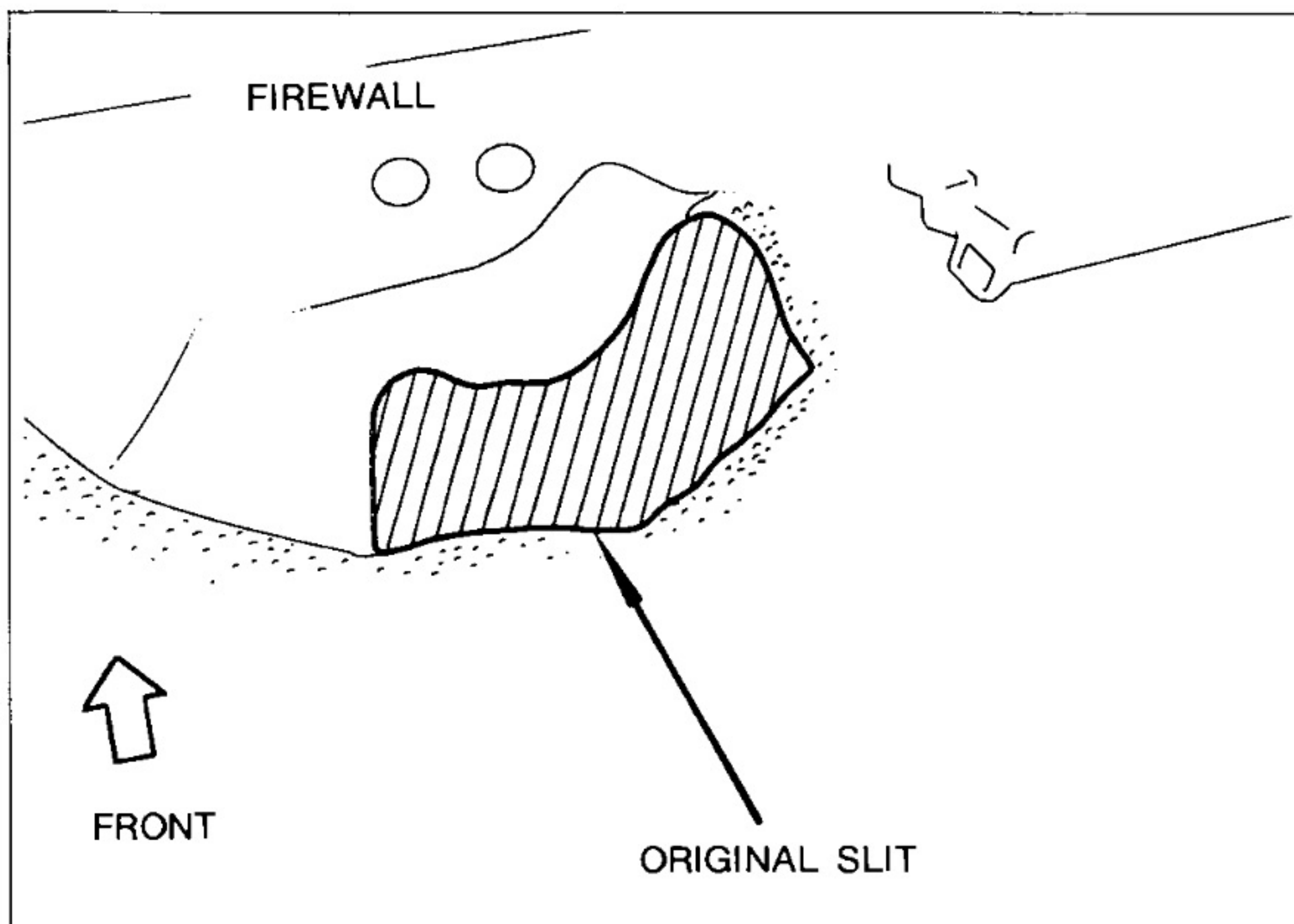


Fig.9

(6) COOLING UNIT

- (a) Cut out the carpet according to the marks on the back.

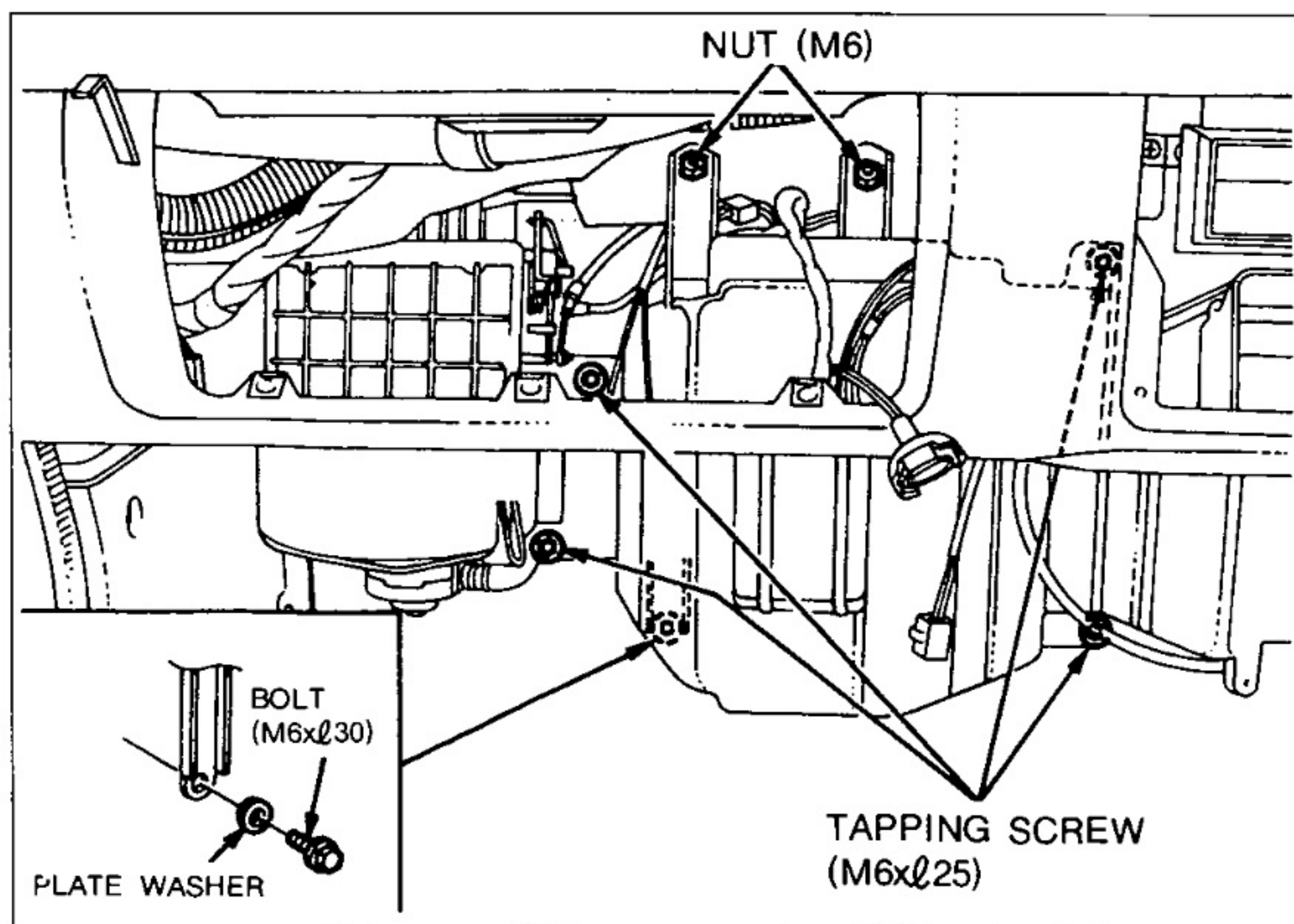


Fig.10

- (b) Install the cooling unit.

CAUTION

Pull carpet back when installing the cooling unit.

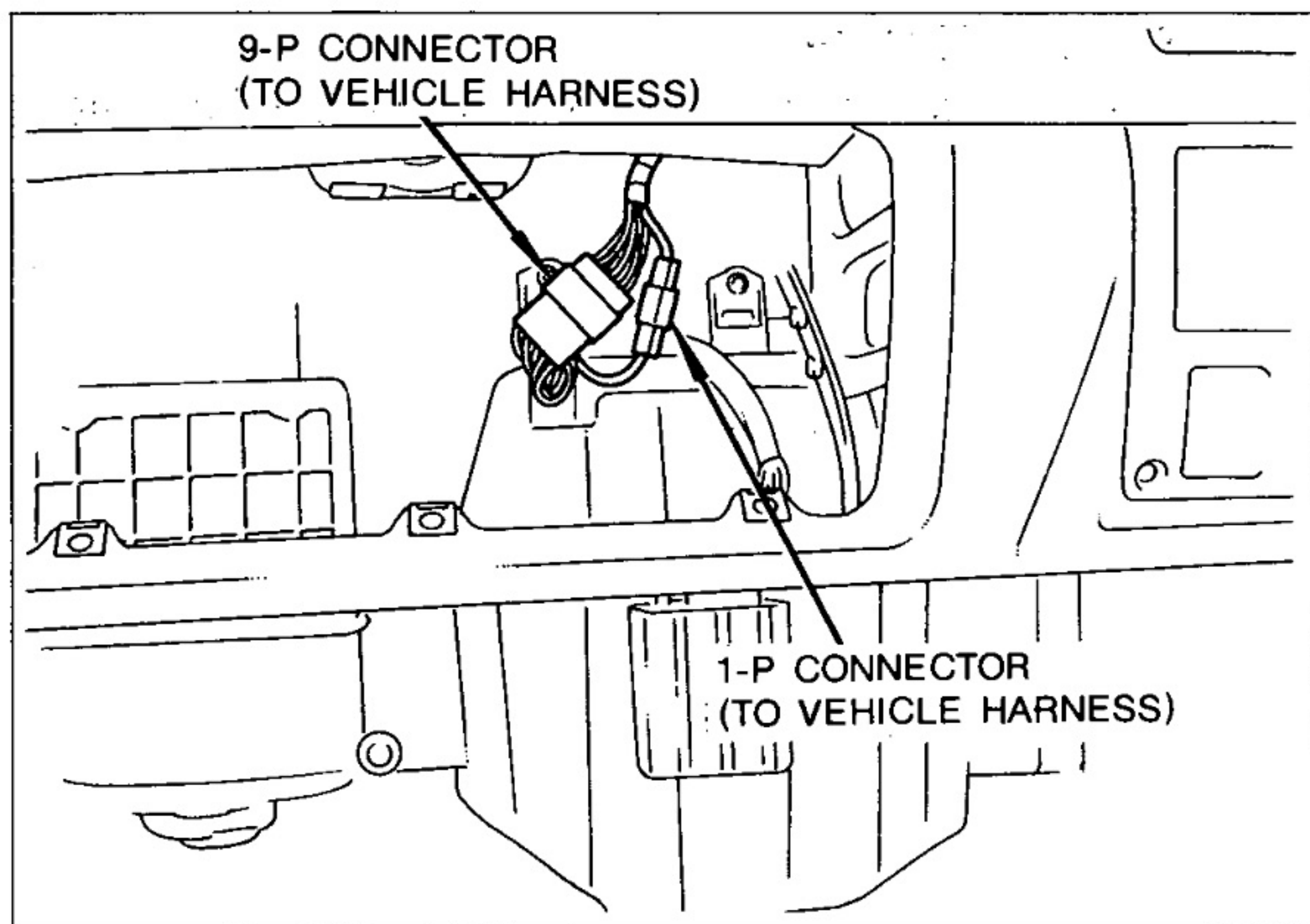


Fig.11

(c) Connect the A/C harness to the vehicle harness.

NOTE

The 1-P connector is not applicable to FJ series vehicles.

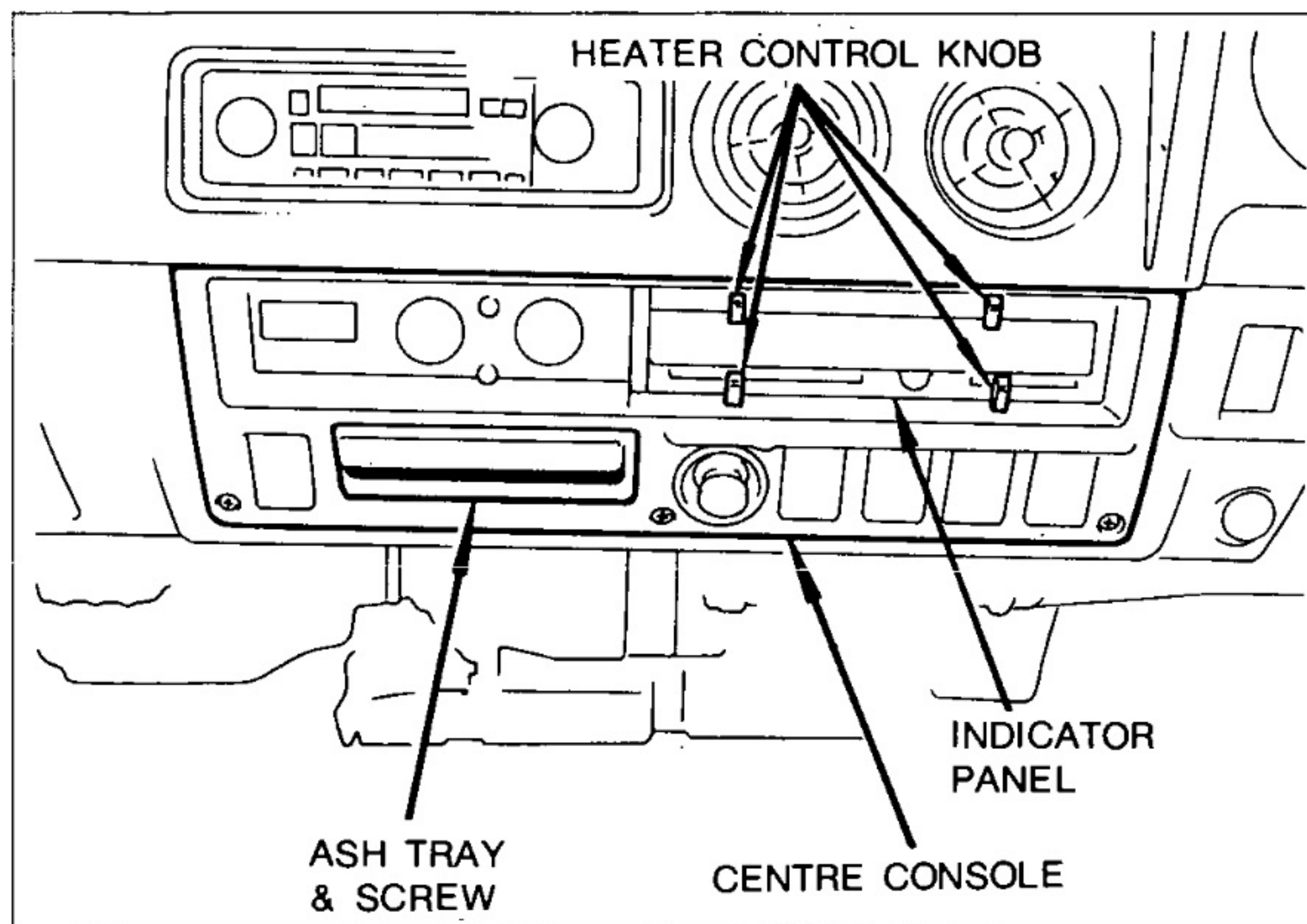


Fig.12

(7) A/C SWITCH

(a) Remove the ash tray, centre console, heater control knobs and indicator panel.

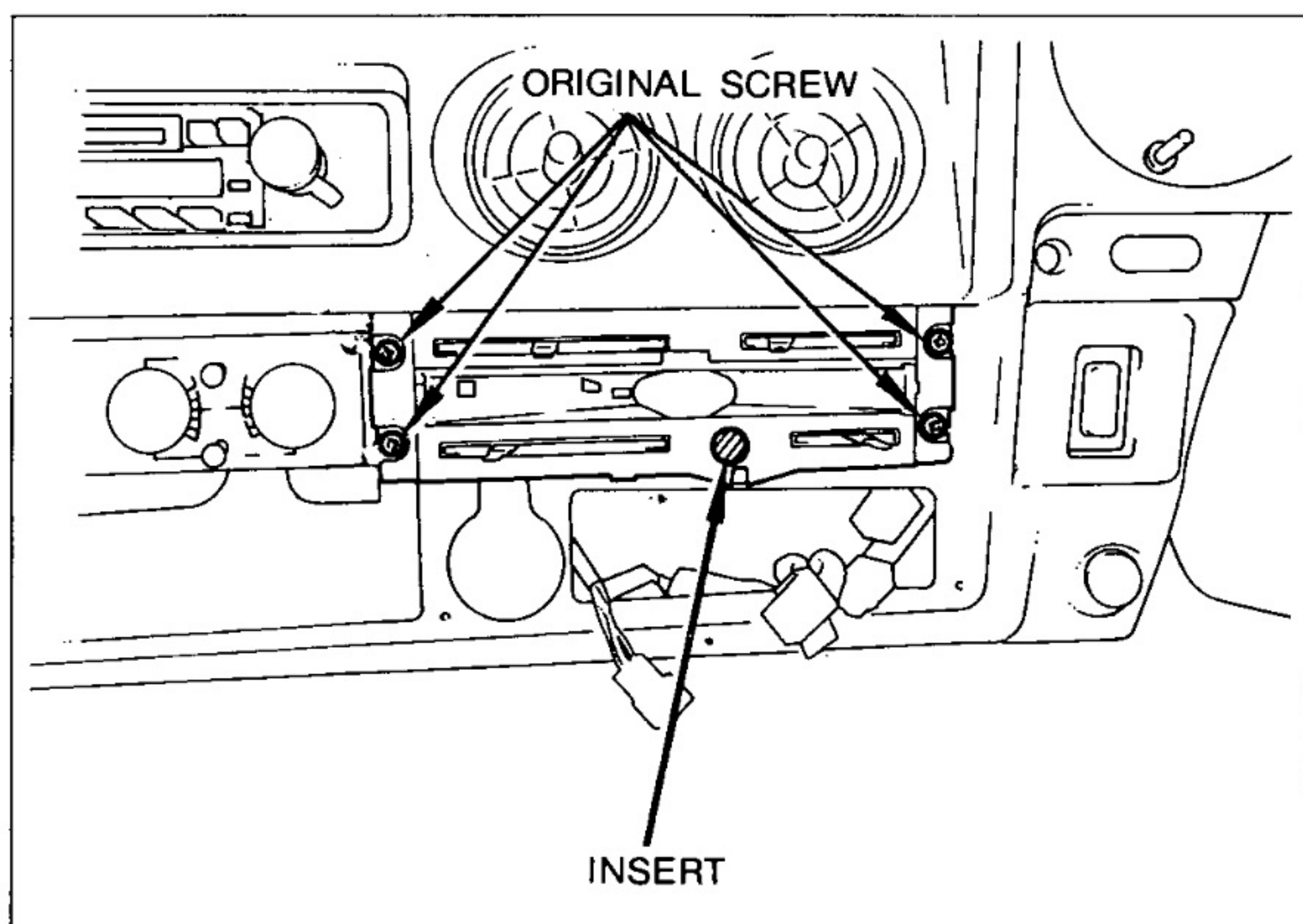


Fig.13

(b) Remove the heater control panel and carefully remove the insert.

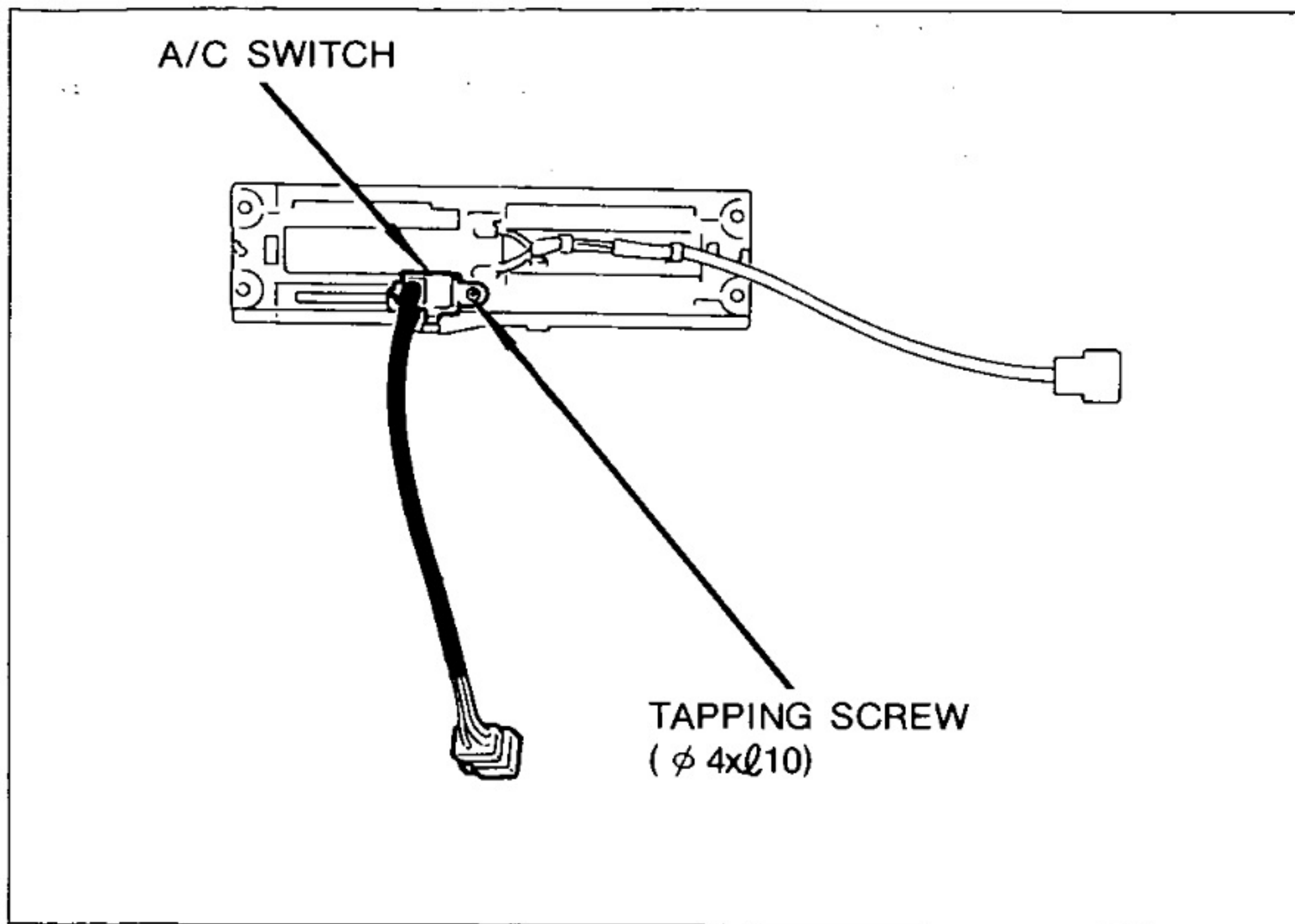


Fig.14

(c) Install the A/C switch.

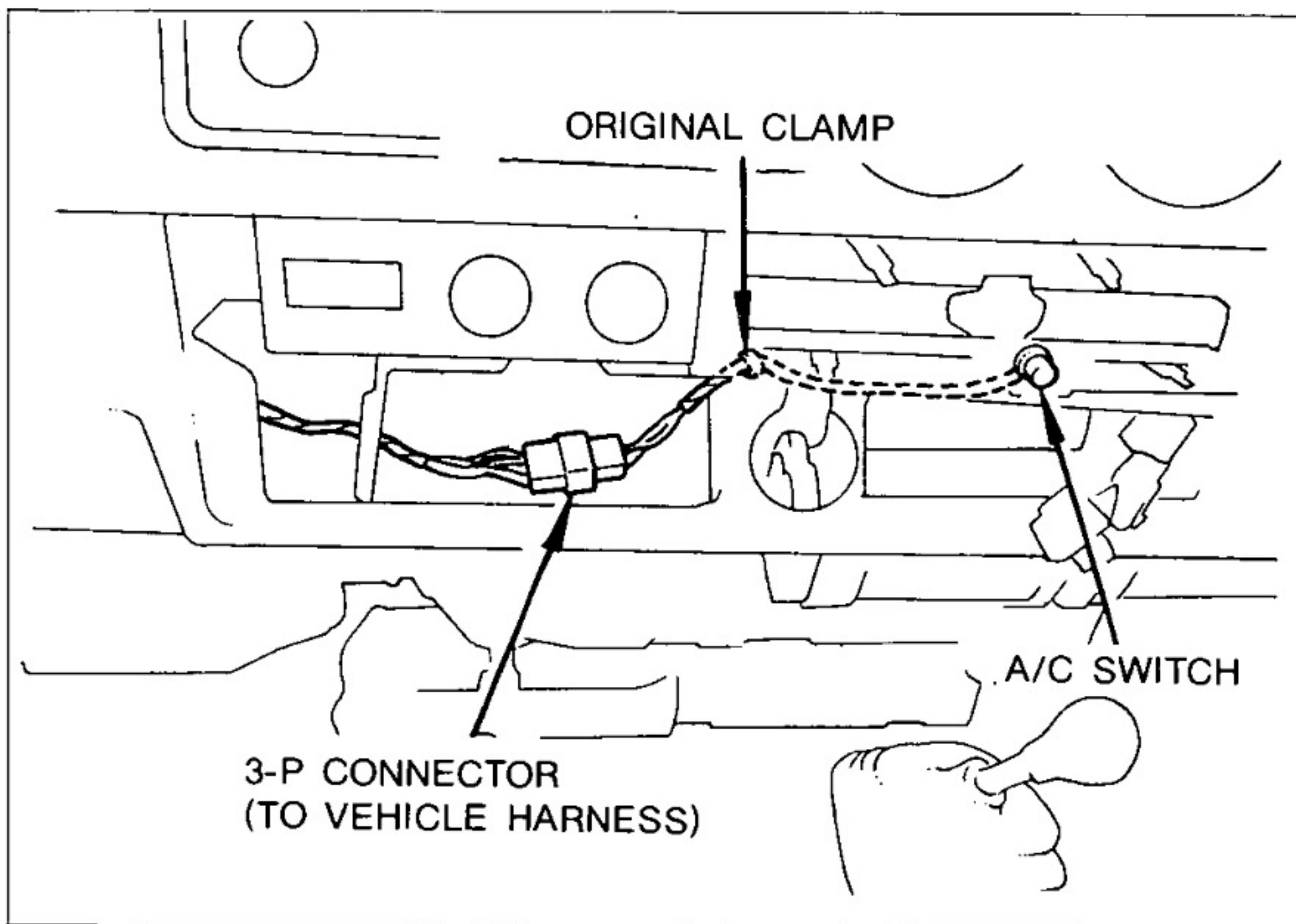


Fig.15

(d) Re-install the heater control panel.

(e) Connect the A/C harness to the vehicle harness and fasten it, with the vehicle harness using the original clamp.

CAUTION

Make sure the heater control levers do not interfere with the vehicle and A/C harness.

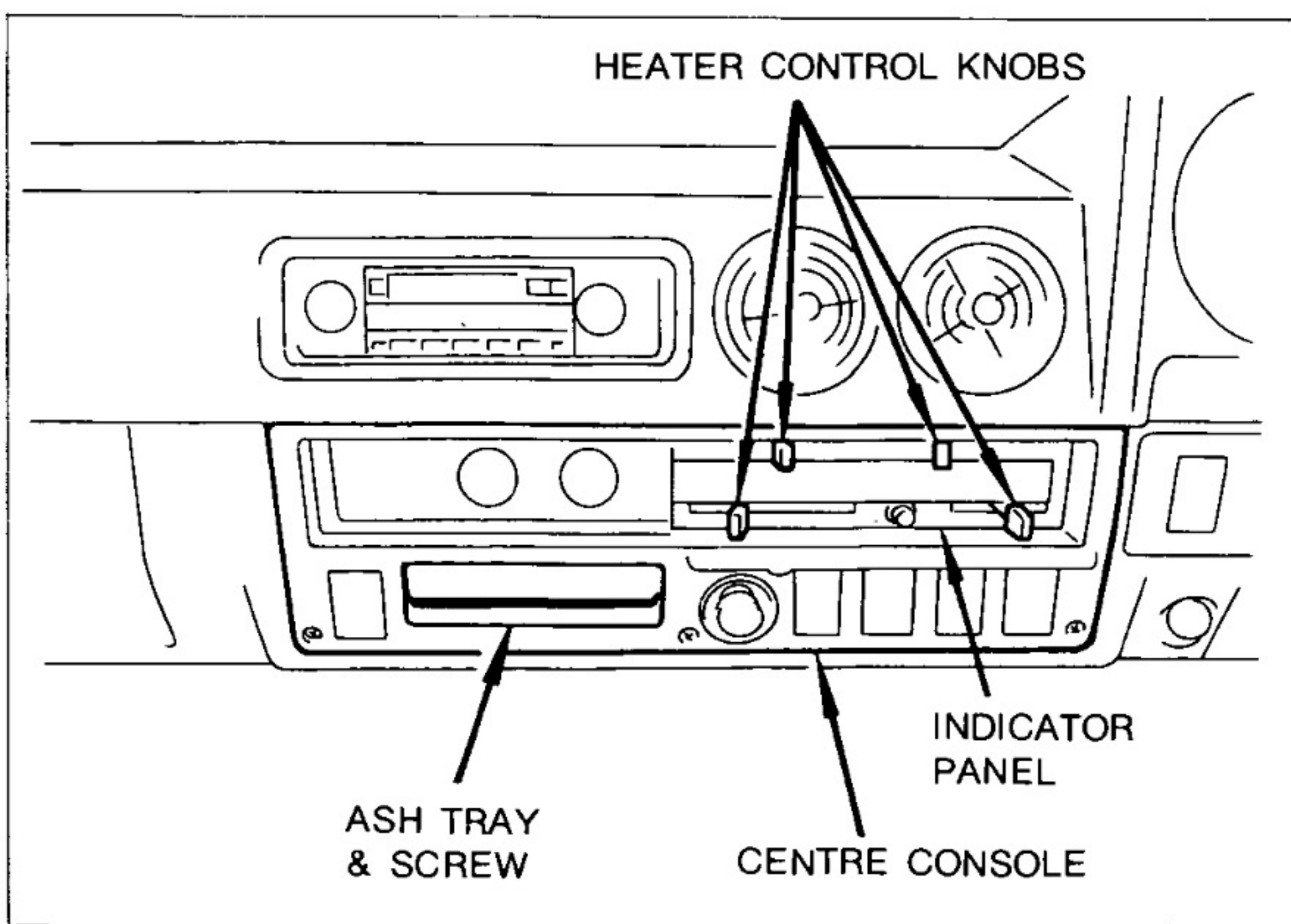


Fig.16

(f) Re-install the heater control knobs, indicator panel, centre console and ash tray.

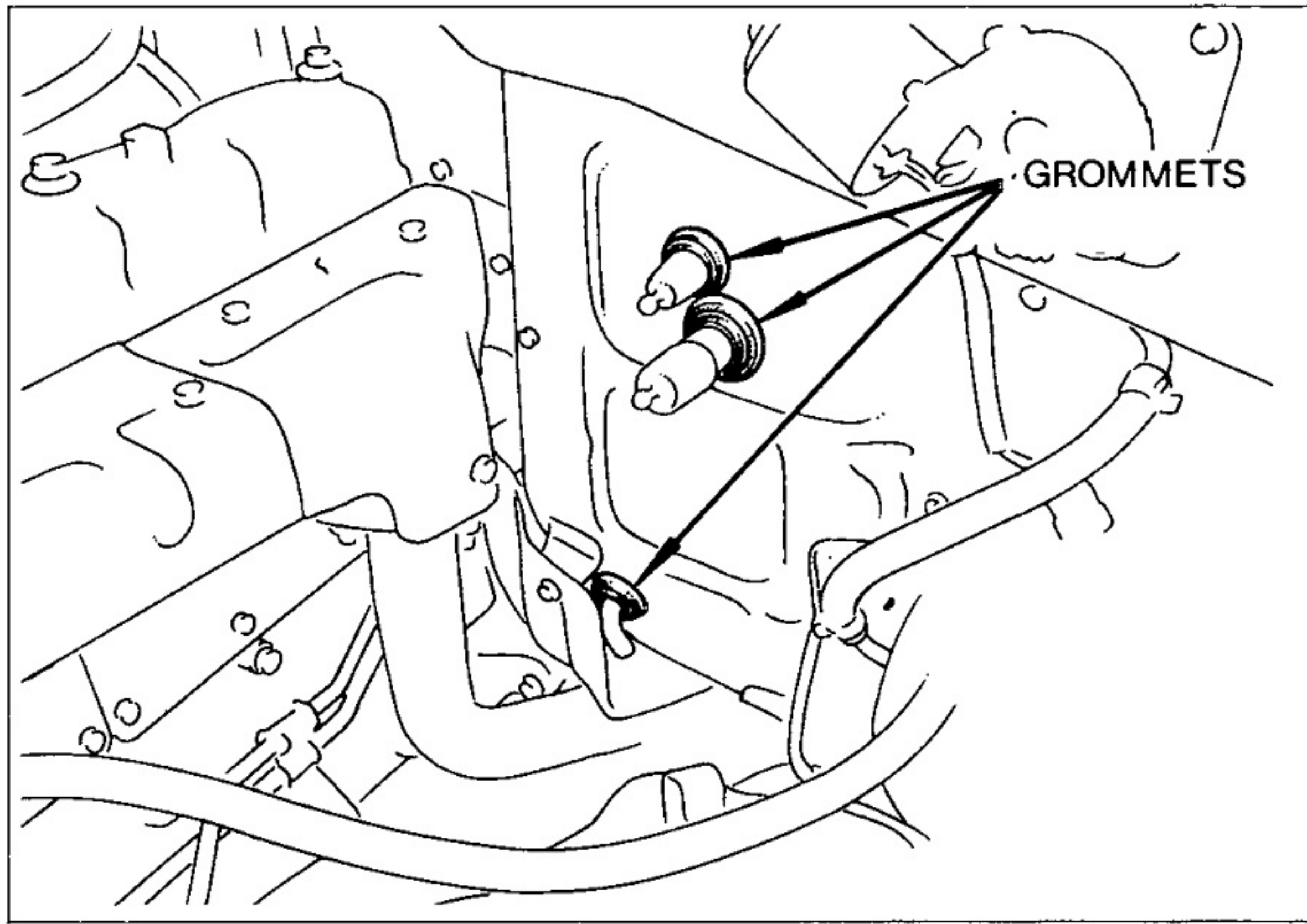


Fig.17

(8) Grommets

- (a) Install the grommets onto the cooling unit tubes and drain hose.

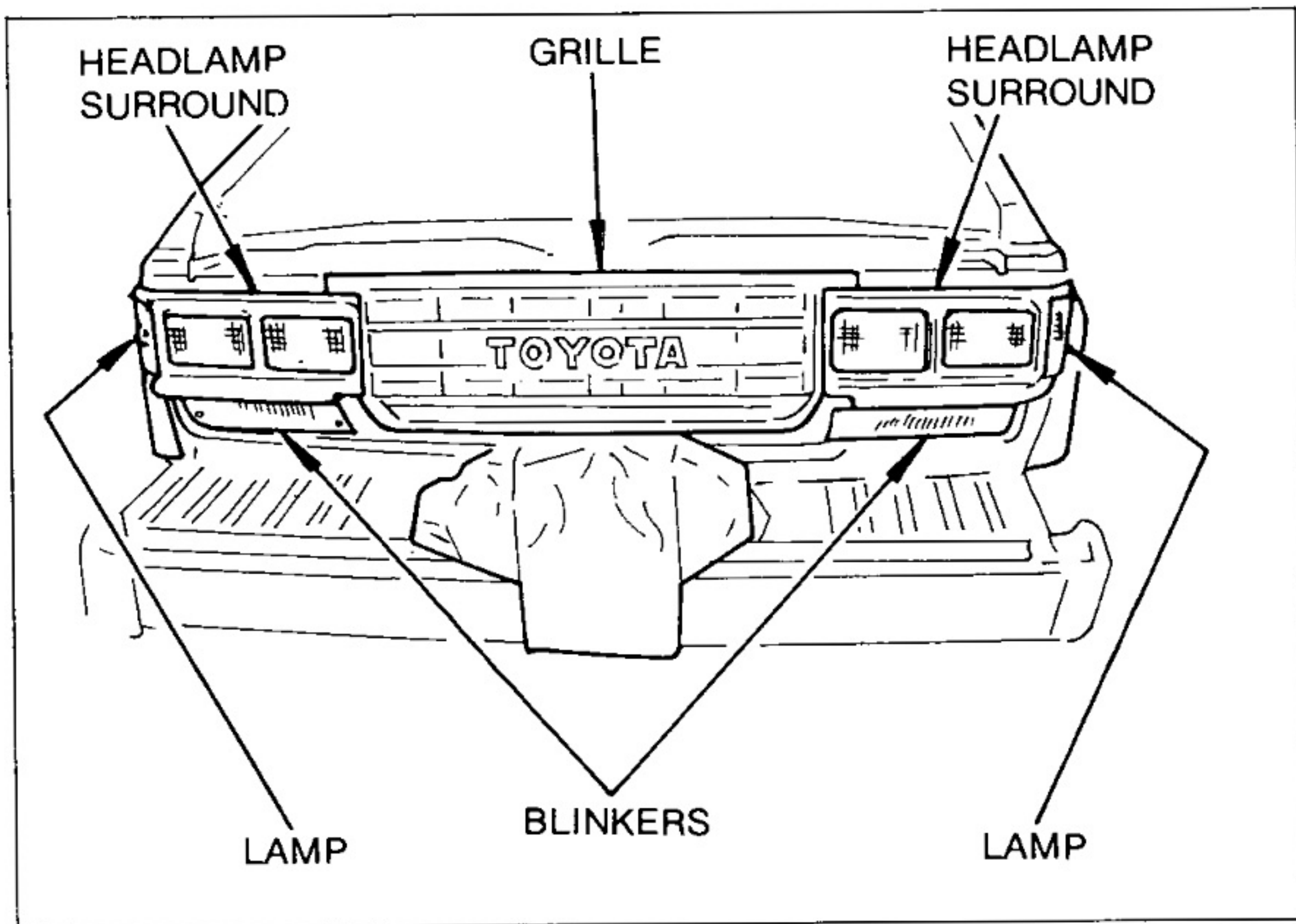


Fig.18

1.2 INSTALLATION INSIDE THE ENGINE COMPARTMENT (FJ62 SERIES)

(1) REMOVAL OF PARTS

Before installing the air conditioner components into the engine compartment, the following parts should be removed.

① TEMPORARY REMOVAL

- (a) Battery and Carrier.
- (b) Blinkers.
- (c) Headlamp surround and grille.
- (d) Hood lock brace.
- (e) Air cleaner.
- (f) Radiator reserve tank.
- (g) P/S drive belt.
- (h) Alternator drive belt.

(2) COMPRESSOR AND BRACKETS

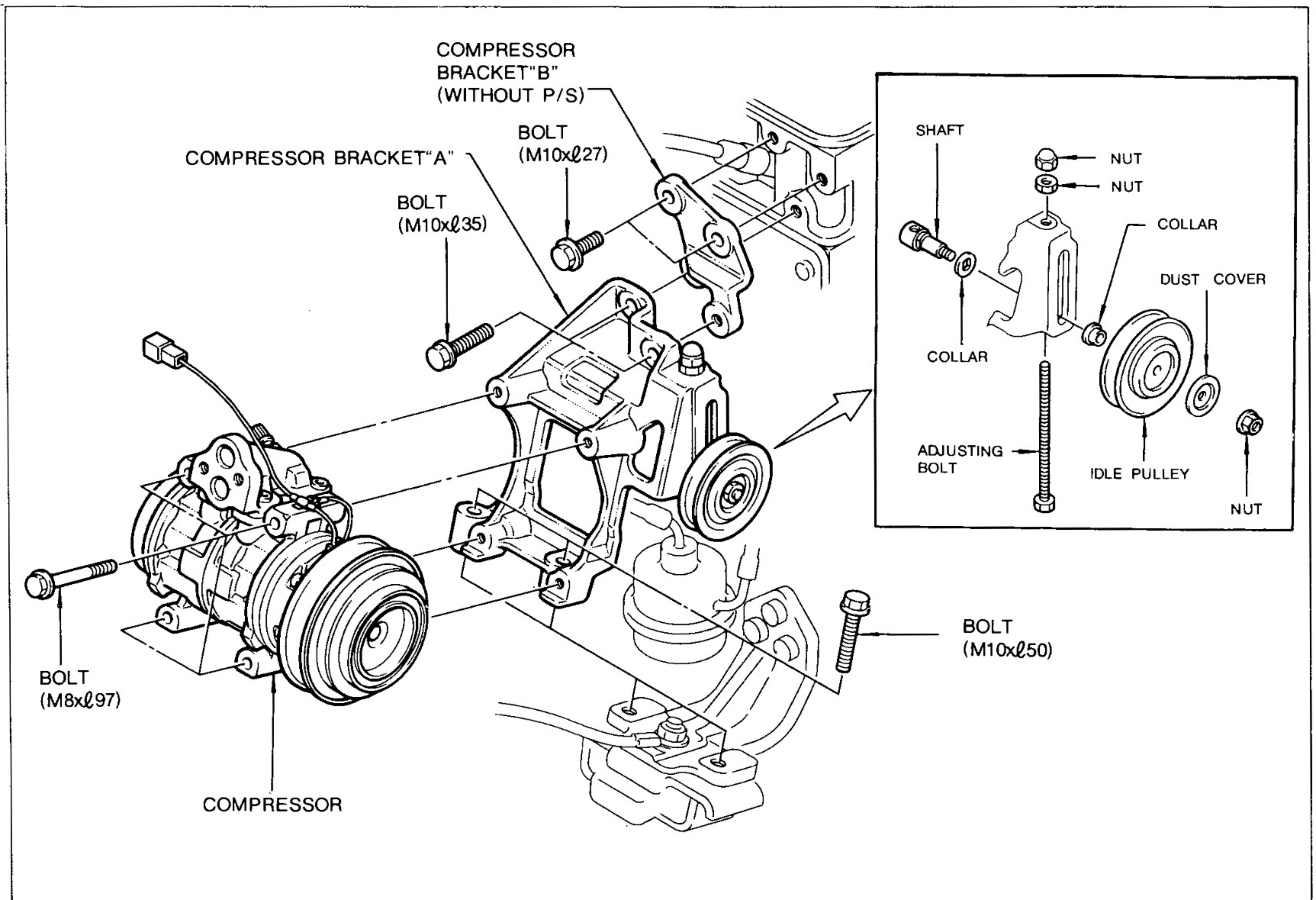


Fig.19

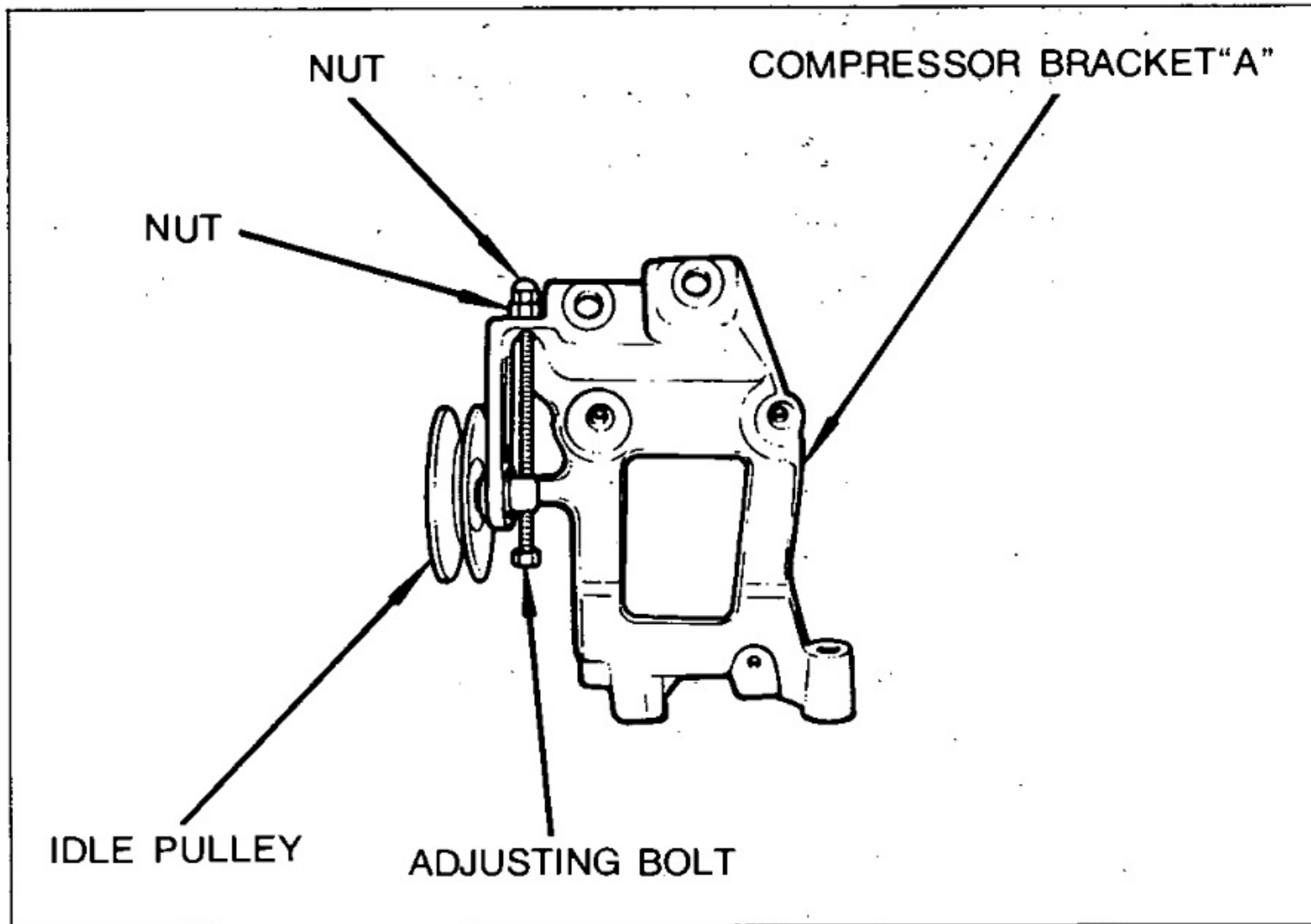


Fig.20

- (a) Assemble the idle pulley to the compressor bracket "A".

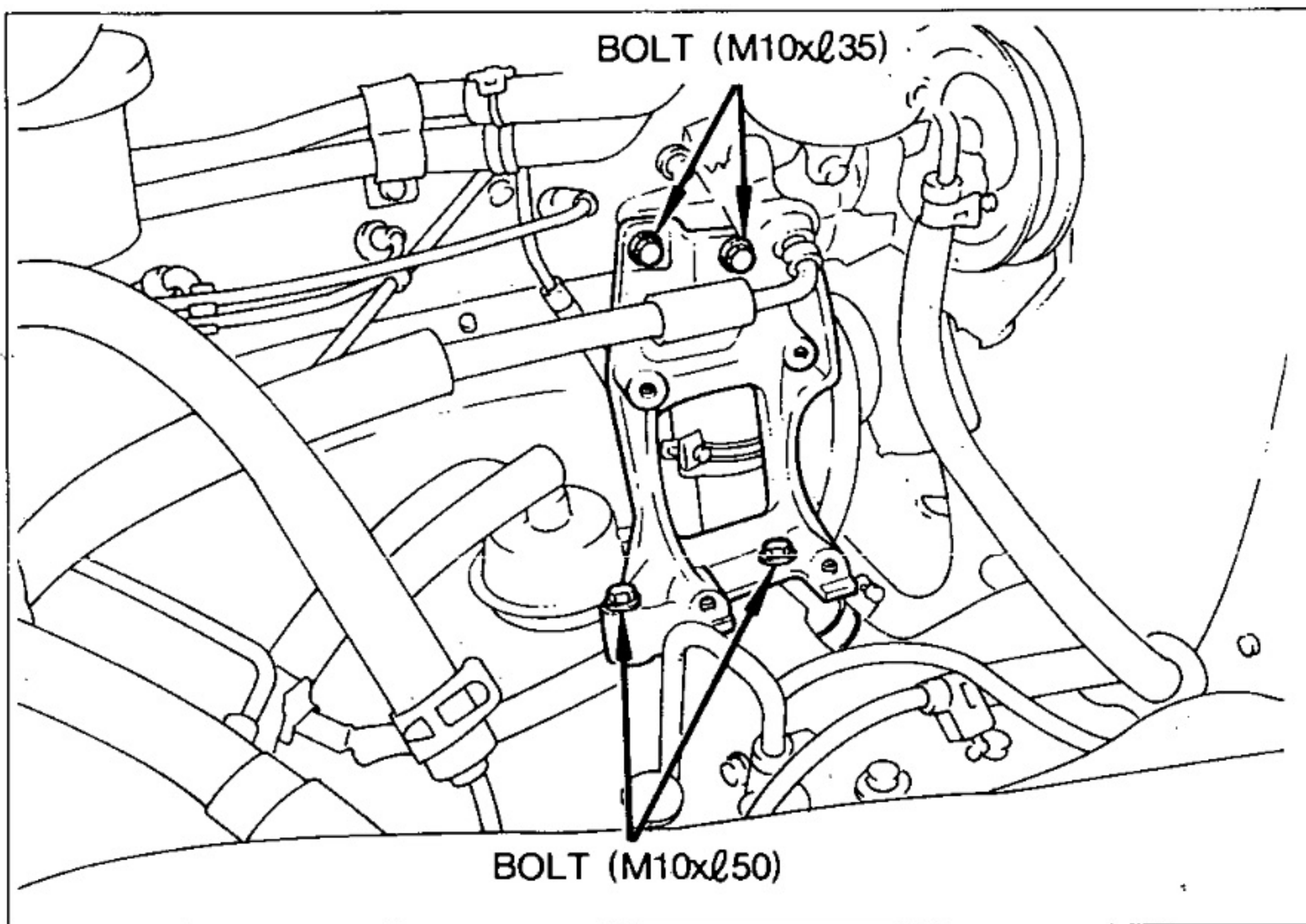


Fig.21

- (b) Install the compressor bracket "A".

Tightening Torque:

M10 bolt 40~55 N-m (29~40 ft-lbs)

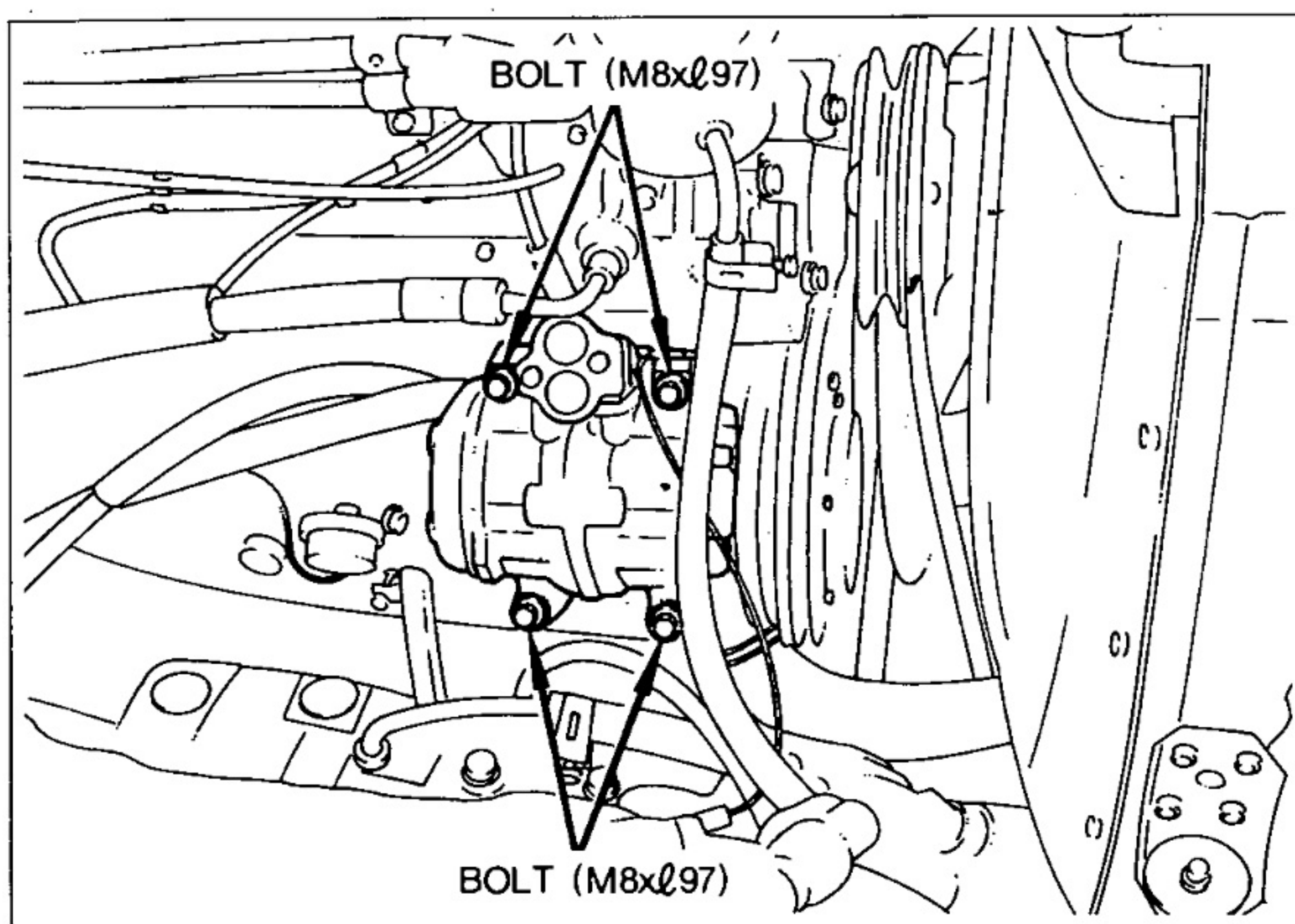


Fig.22

- (c) Install the compressor to the compressor bracket.

Tightening Torque:

M8 bolt 20~30 N-m (15~22 ft-lbs)

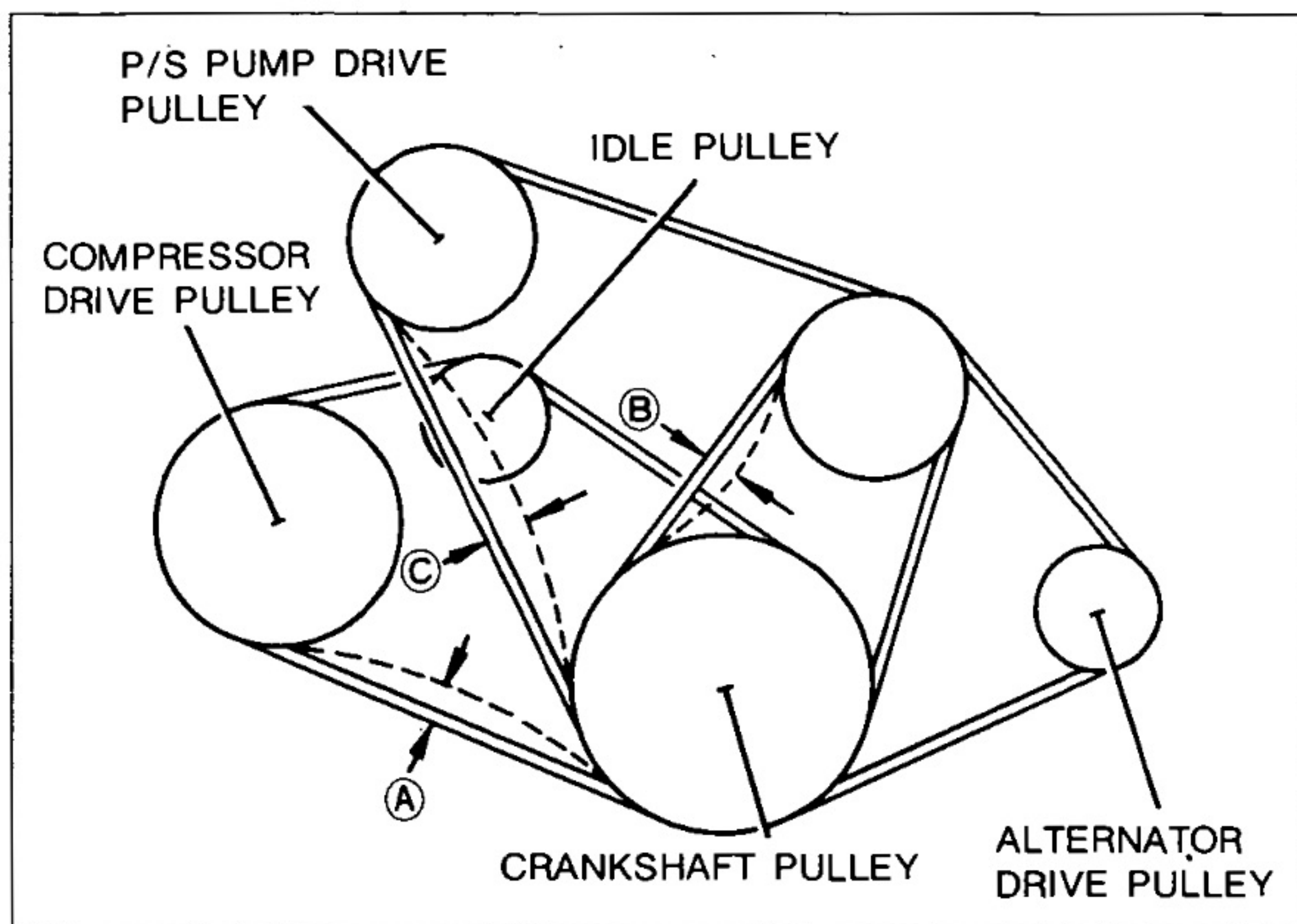


Fig.23

(3) COMPRESSOR DRIVE BELT

- (a) Install and adjust the tension of the compressor drive belt.

	TENSION
COMPRESSOR DRIVE BELT	20~35 kg
ALTERNATOR DRIVE BELT	20~35 kg
P/S DRIVE BELT	20~35 kg

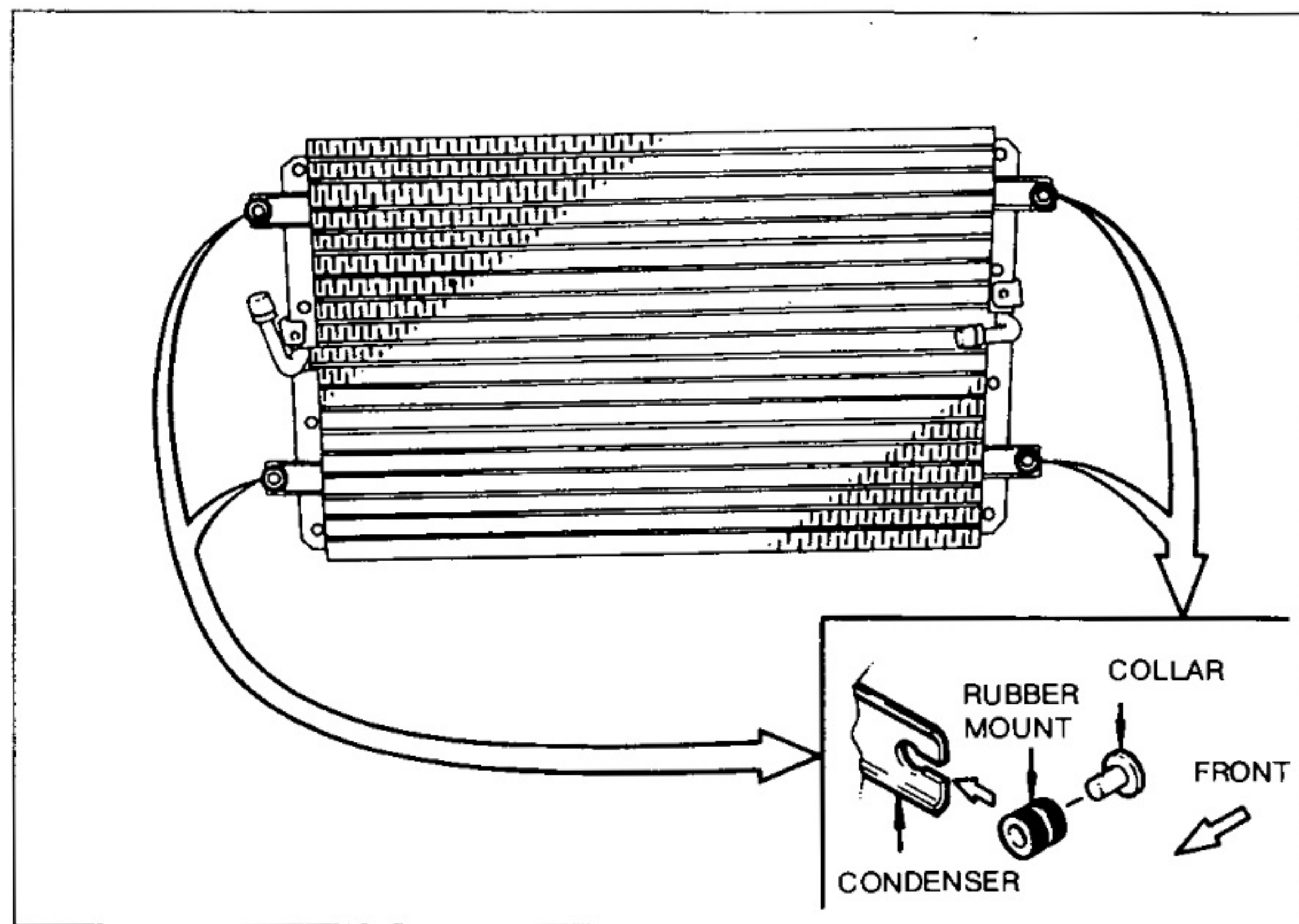


Fig.24

(4) CONDENSER

- (a) Install the rubber mounts and the collars to the condenser.

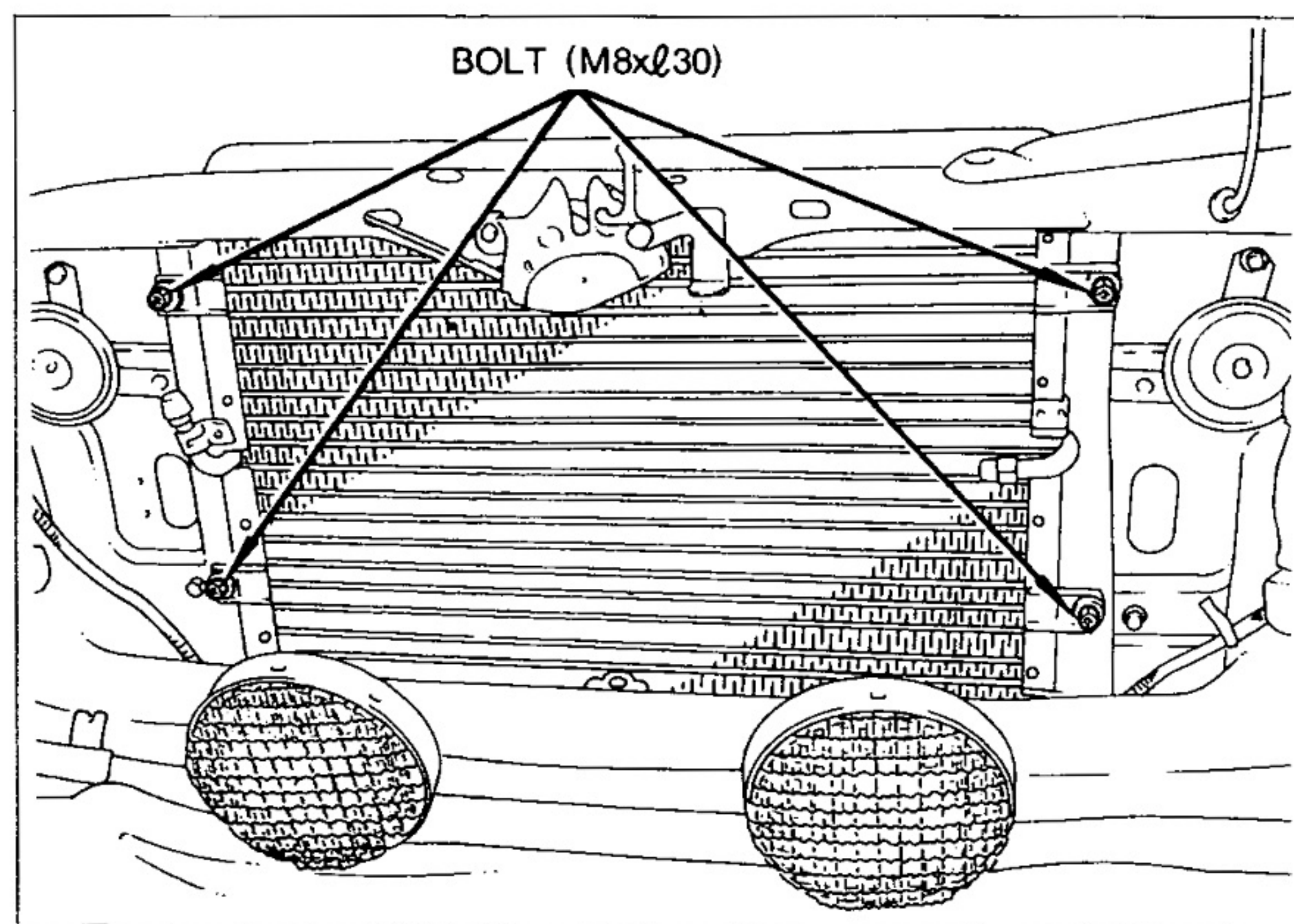


Fig.25

- (b) Install the condenser.

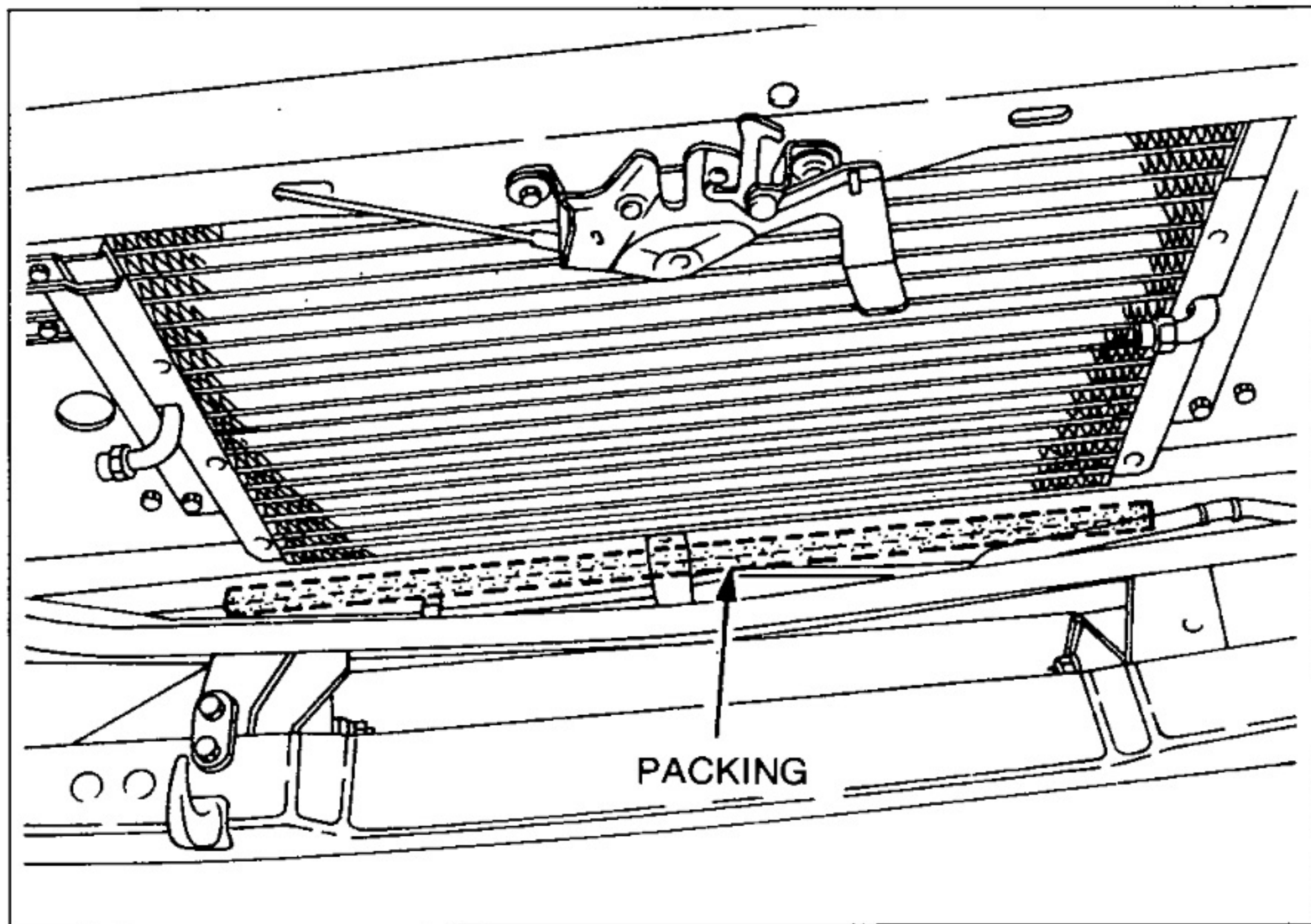


Fig.26

(c) Install the packing under the lower baffle.

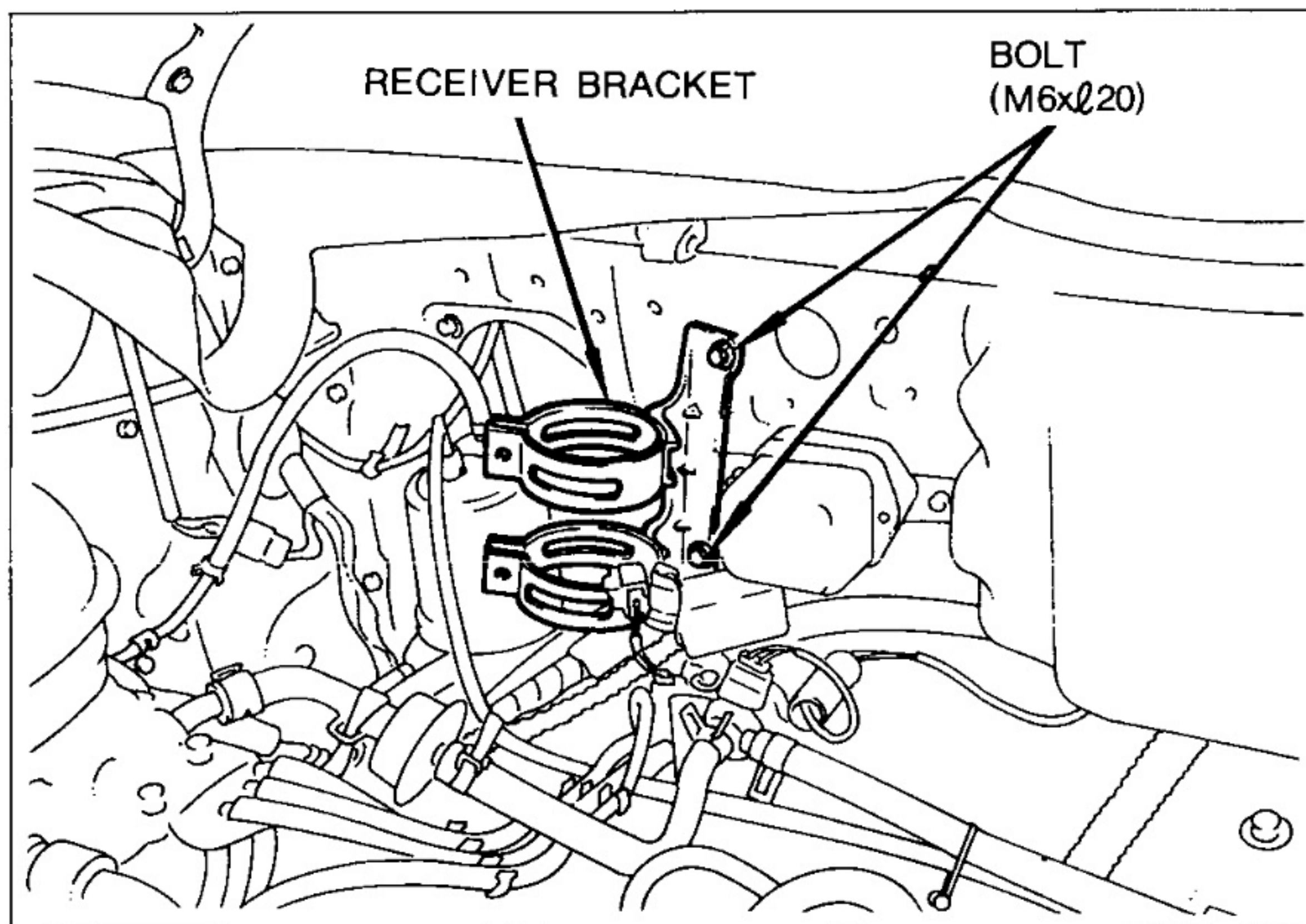


Fig.27

(5) RECEIVER

(a) Install the receiver bracket.

CAUTION

Make sure the receiver bracket does not interfere with the noise filter.

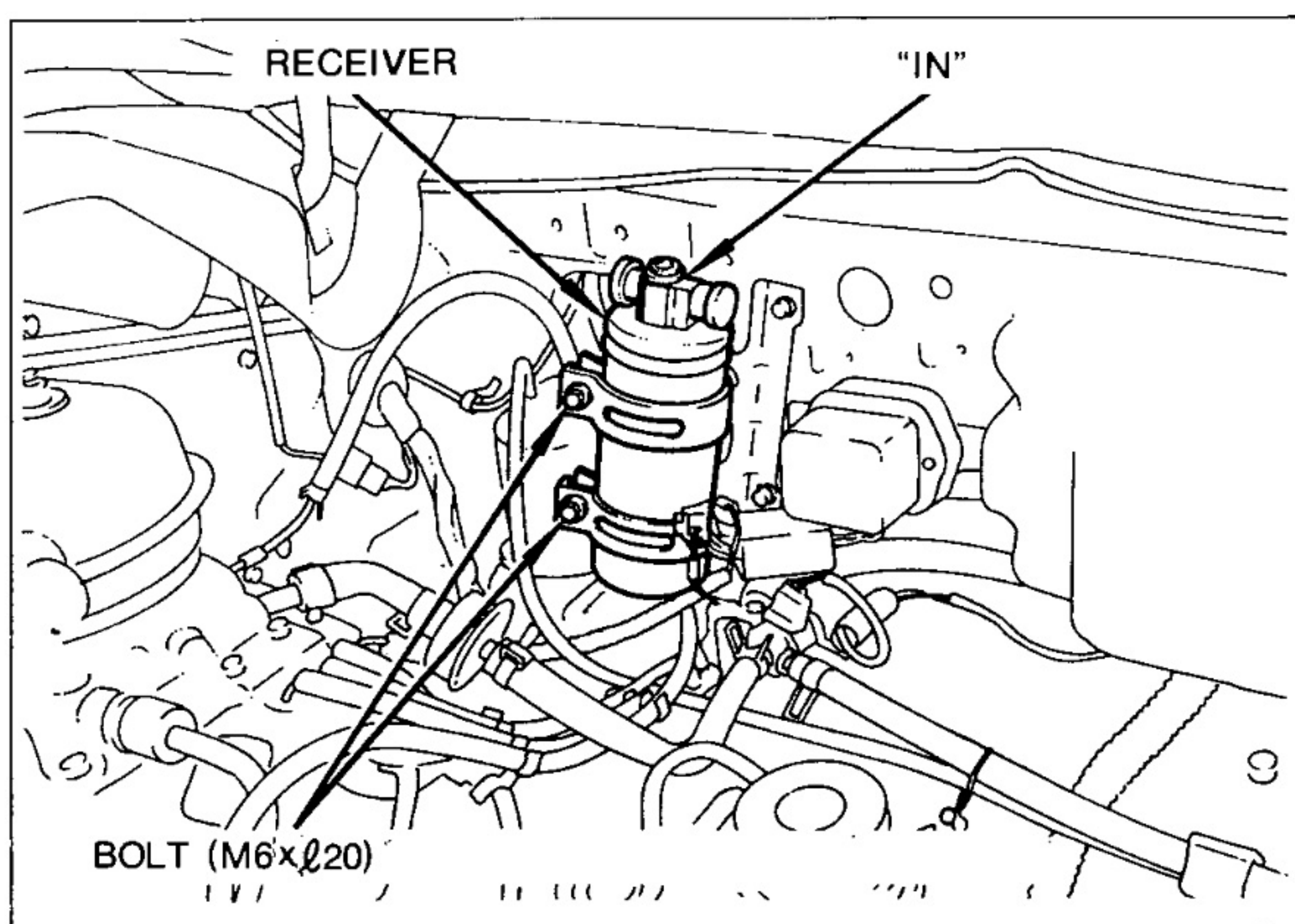
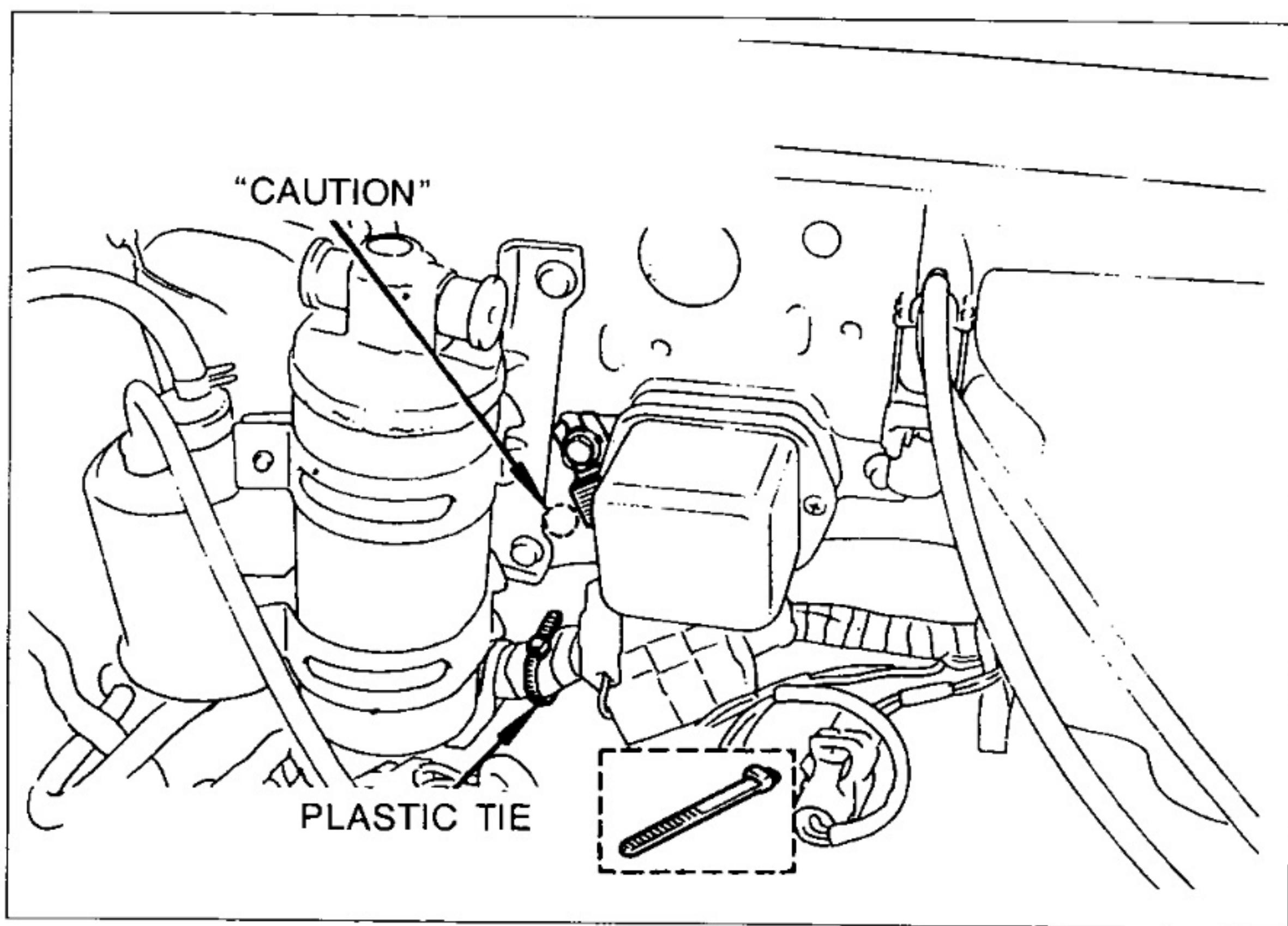


Fig.28

(b) Install the receiver into the receiver bracket.

CAUTION

- 1) *Do not tighten the bolts at this stage.*
- 2) *Make sure the receiver does not interfere with the vehicle harness.*



(c) Fasten the vehicle harness using a plastic tie.

Fig.29

1.3 PIPEWORK (FJ62 SERIES)

■ GENERAL

The following directions should be followed when installing refrigerant lines.

- (a) Do not remove any caps until you are ready to make a connection.
- (b) Make sure all refrigerant lines are routed as indicated and do not rub on surrounding parts.
- (c) Before making a connection, apply a few drops of refrigerant oil onto the O-ring.
- (d) When tightening fittings, use two wrenches to prevent the tubes from twisting.
- (e) Tighten all fittings to the following torques:

SUCTION TUBES AND HOSES	30~35 N-m (22~25 ft-lbs)
DISCHARGE TUBES AND HOSES	20~25 N-m (15~18 ft-lbs)
LIQUID TUBES AND HOSES	12~15 N-m (9~11 ft-lbs)
- (f) When handling the refrigerant R-12, wear eye protection and be careful that liquid refrigerant does not contact skin.

CAUTION

The compressor is shipped from the factory with a small charge of refrigerant to prevent corrosion. install the gauge set and slowly release the refrigerant charge.

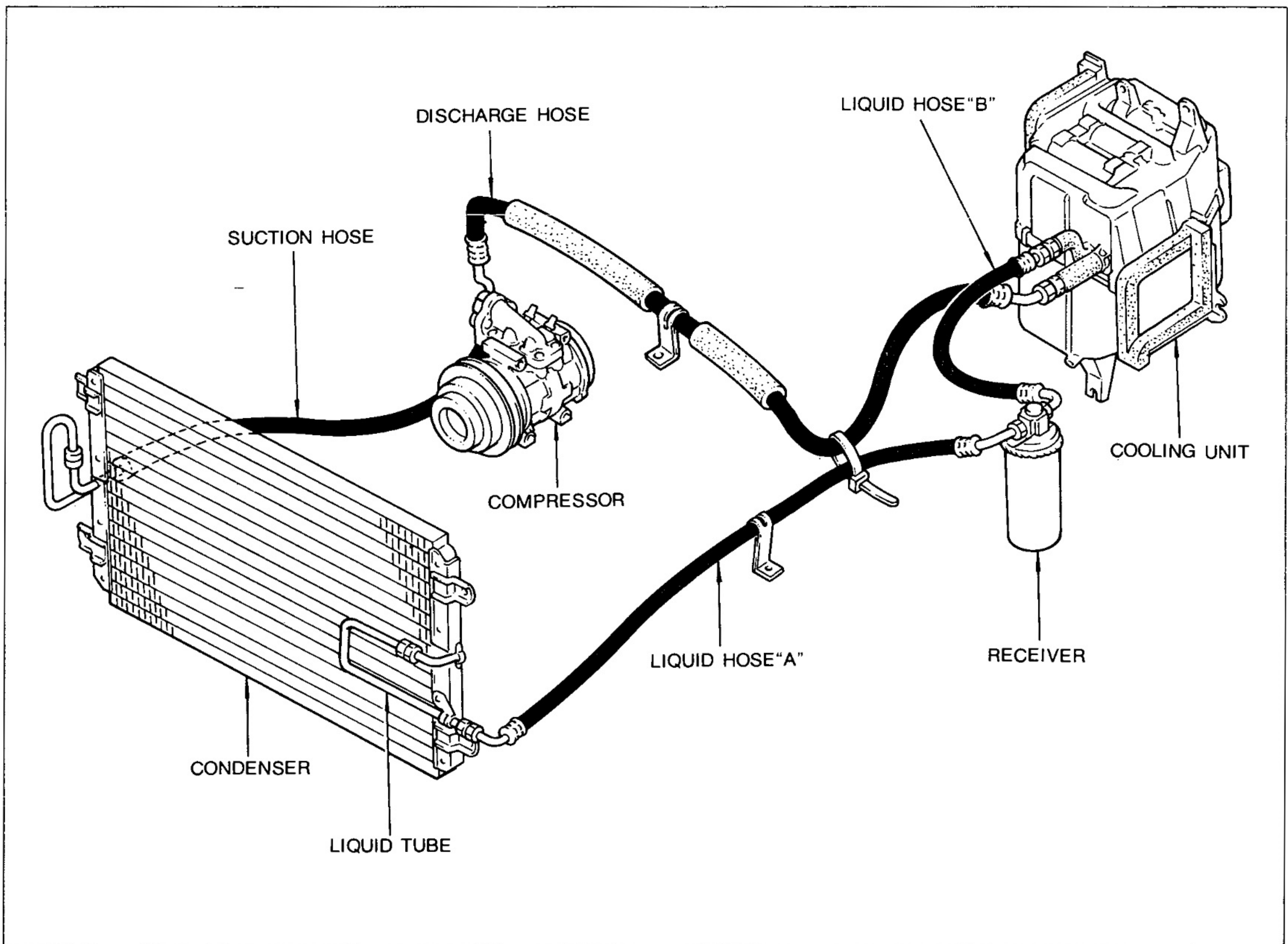


Fig.30

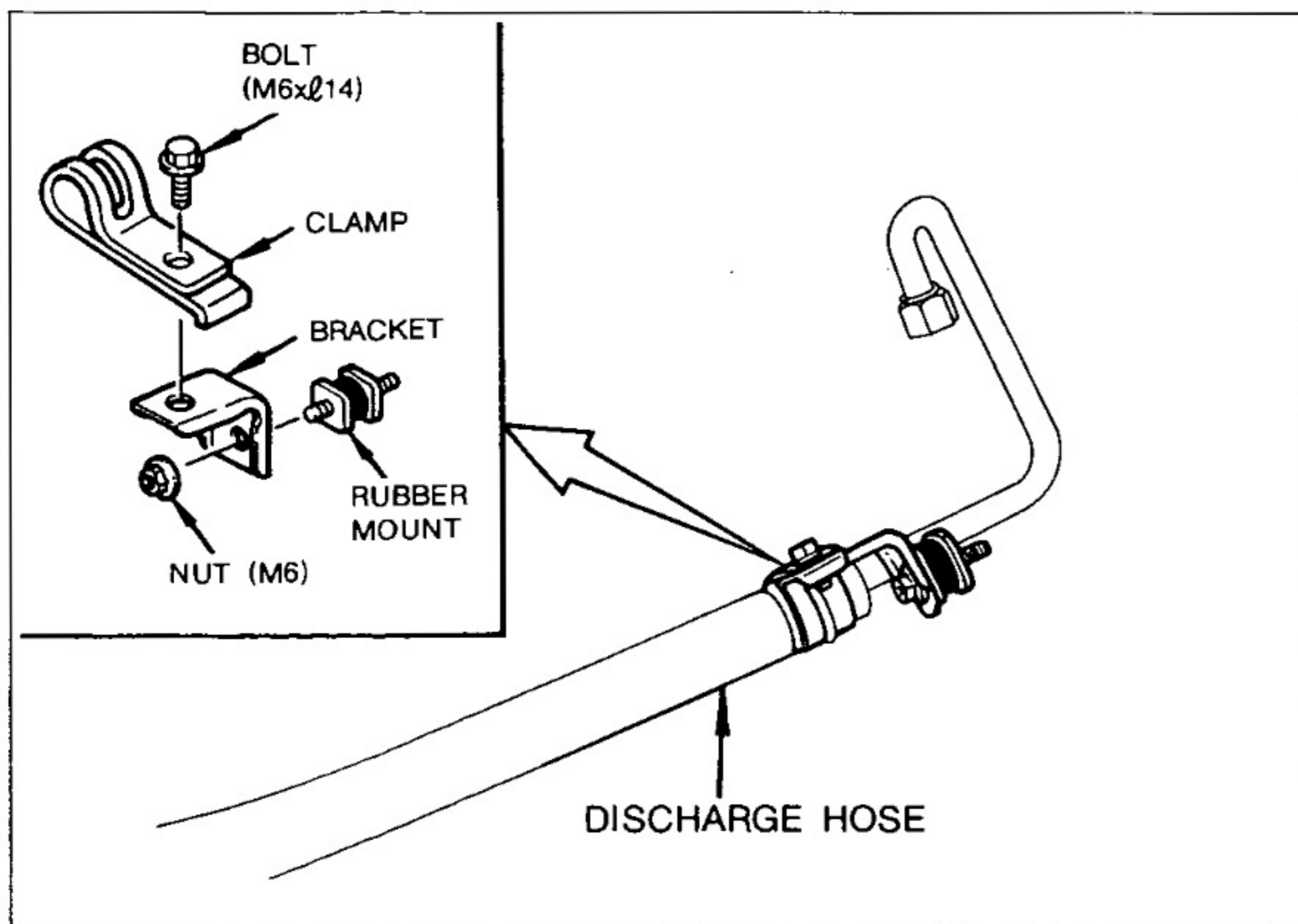


Fig.31

(1) DISCHARGE HOSE

- (a) Install the bracket, clamp and rubber mount to the discharge hose.

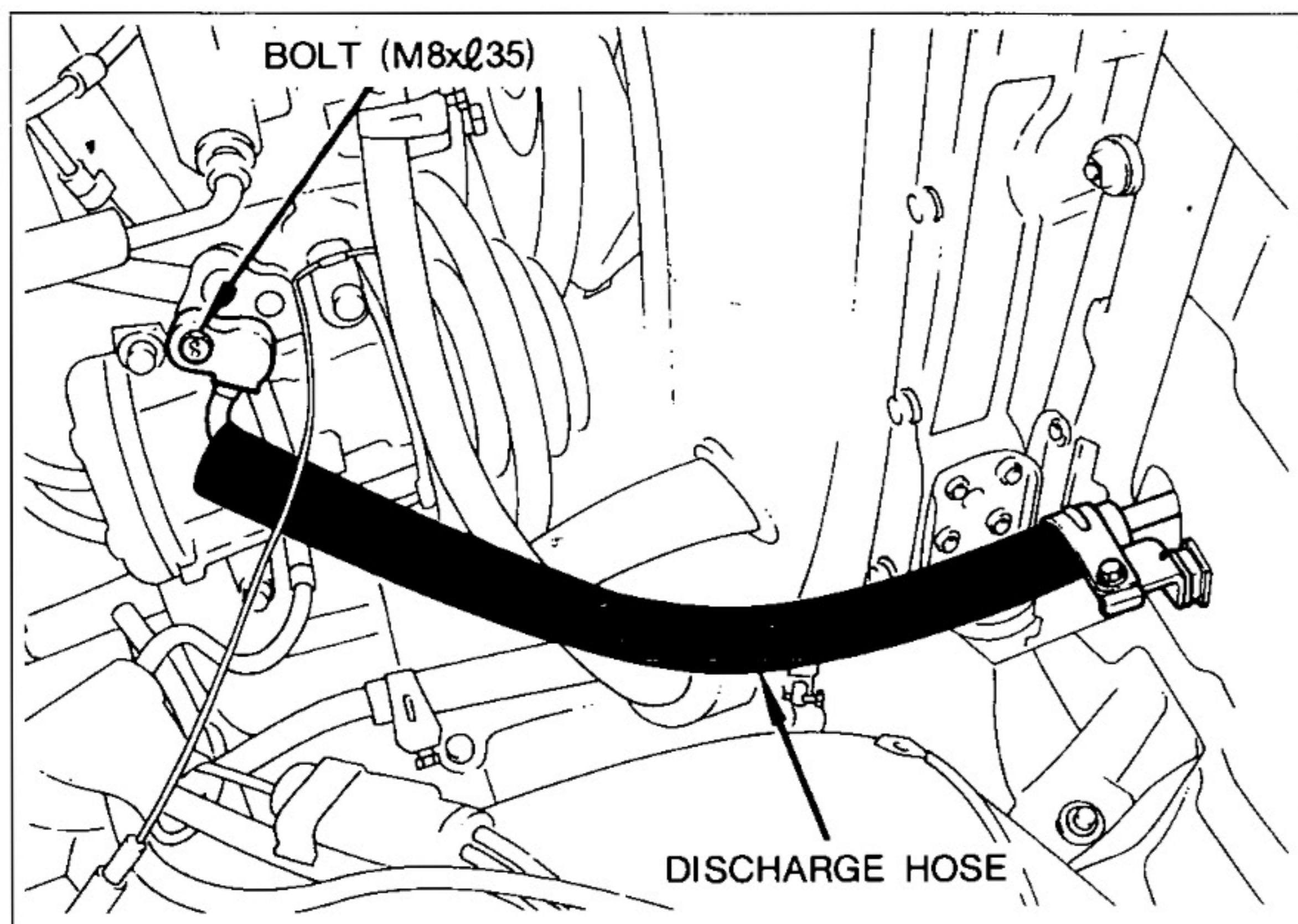


Fig.32

- (b) Connect the discharge hose between the compressor and the condenser inlet fitting.

Tightening Torque:

M8 bolt 20~30 N-m (15~22 ft-lbs)

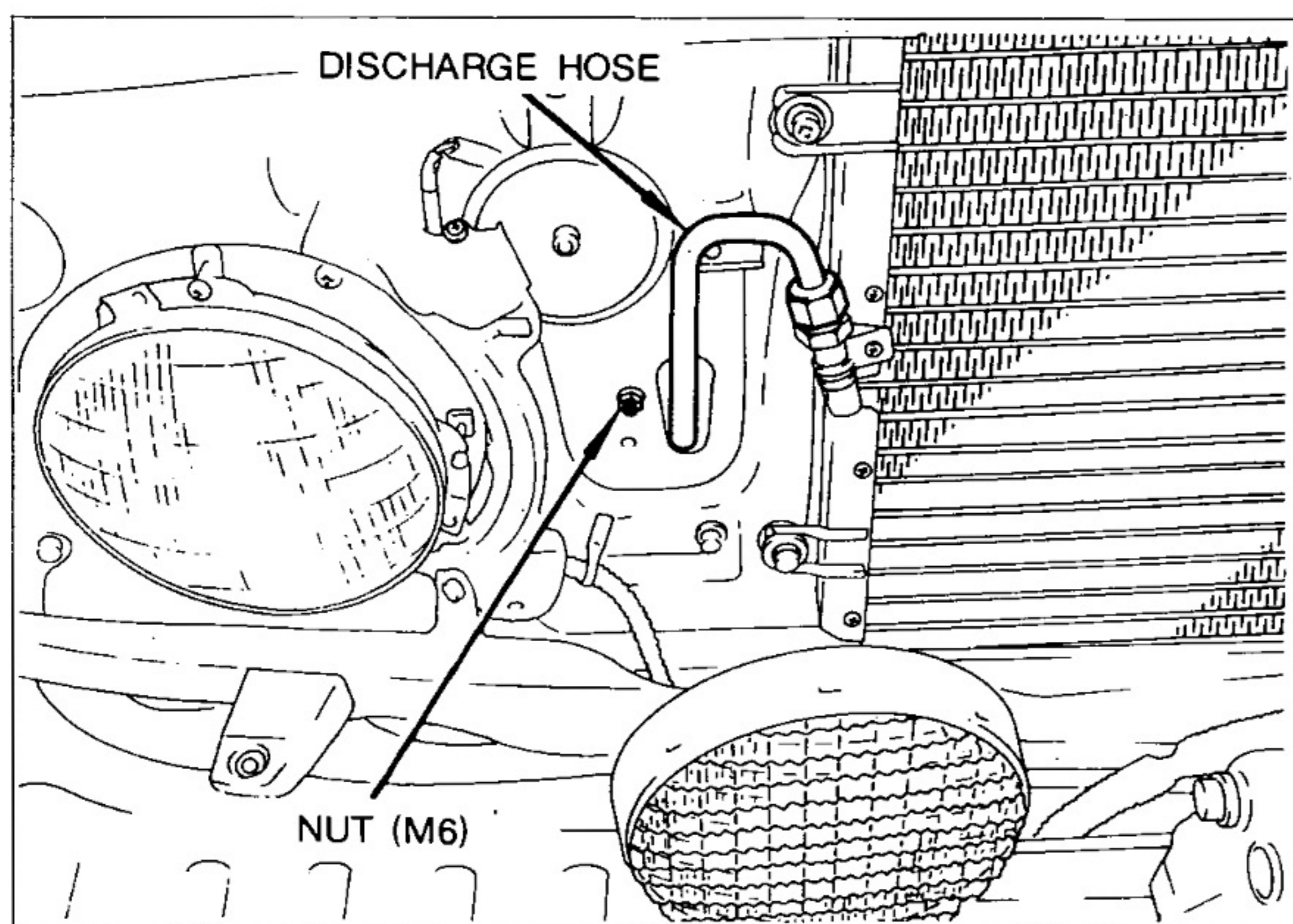


Fig.33

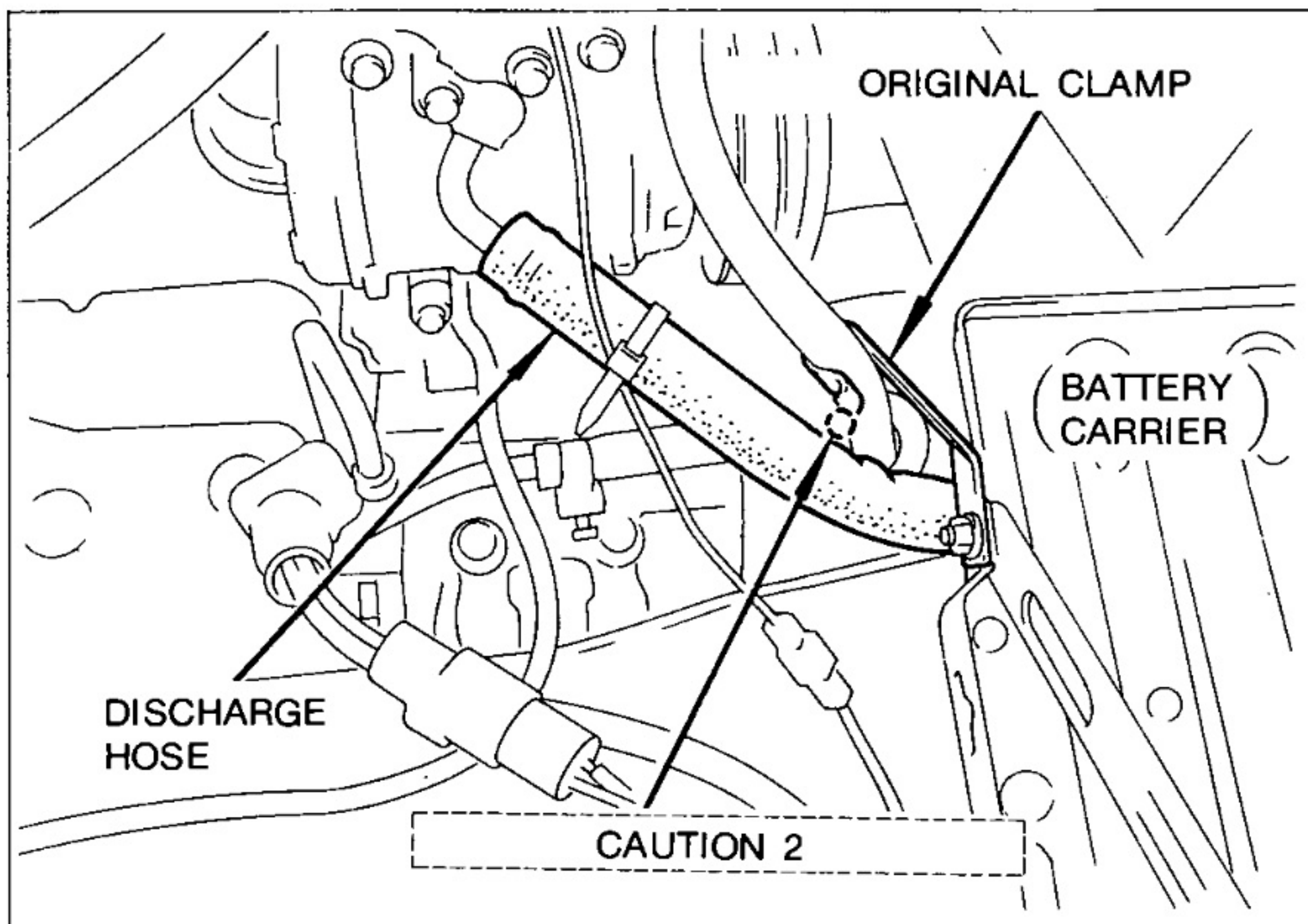


Fig.34

CAUTION

- 1) Install the original clamp for P/S hose when re-installing the battery carrier.
- 2) Keep the gap between P/S hose and discharge hose more than 10mm.

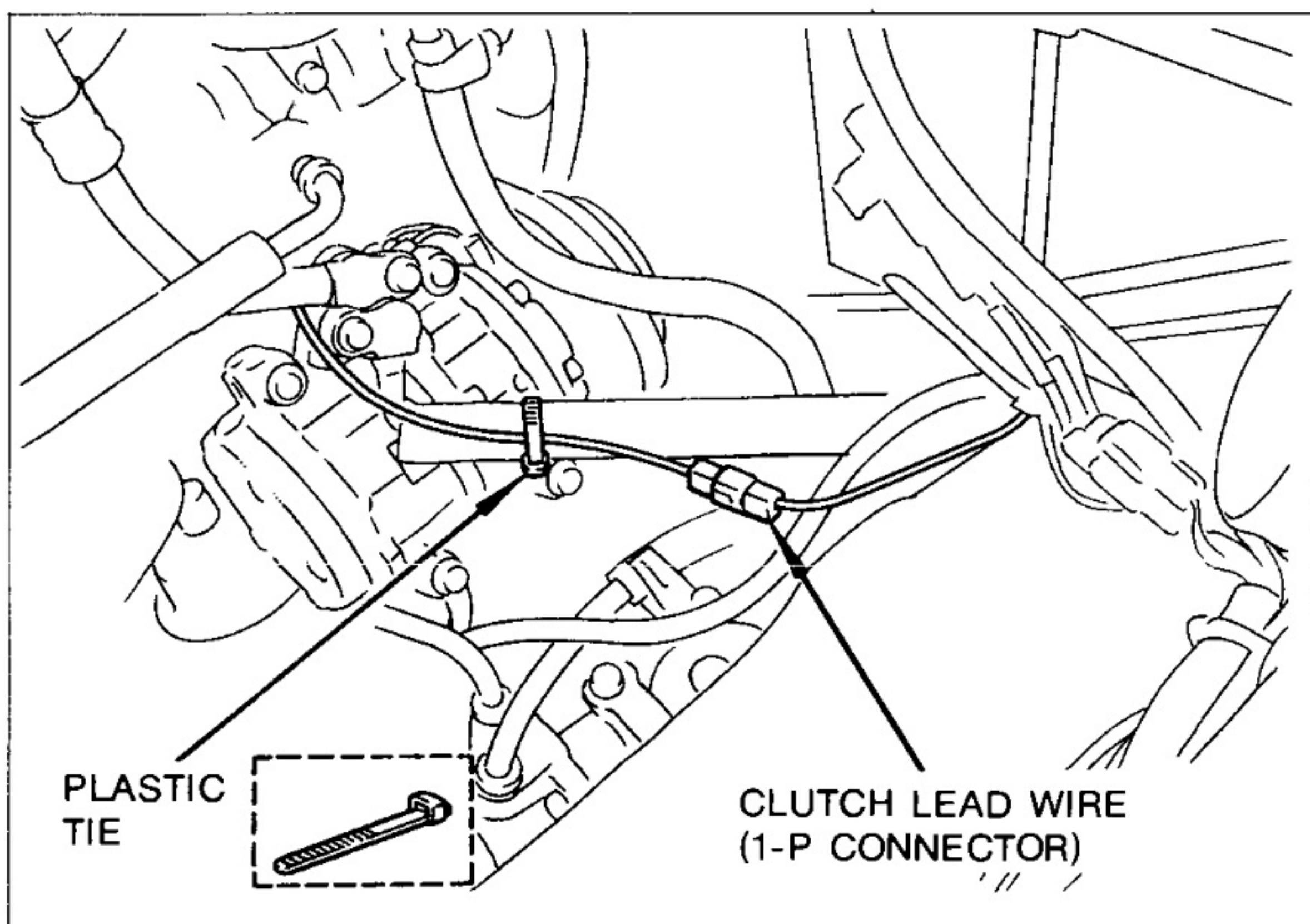


Fig.35

- (c) Connect the clutch lead wire to the vehicle harness.
- (d) Clamp the clutch lead wire to the discharge hose.

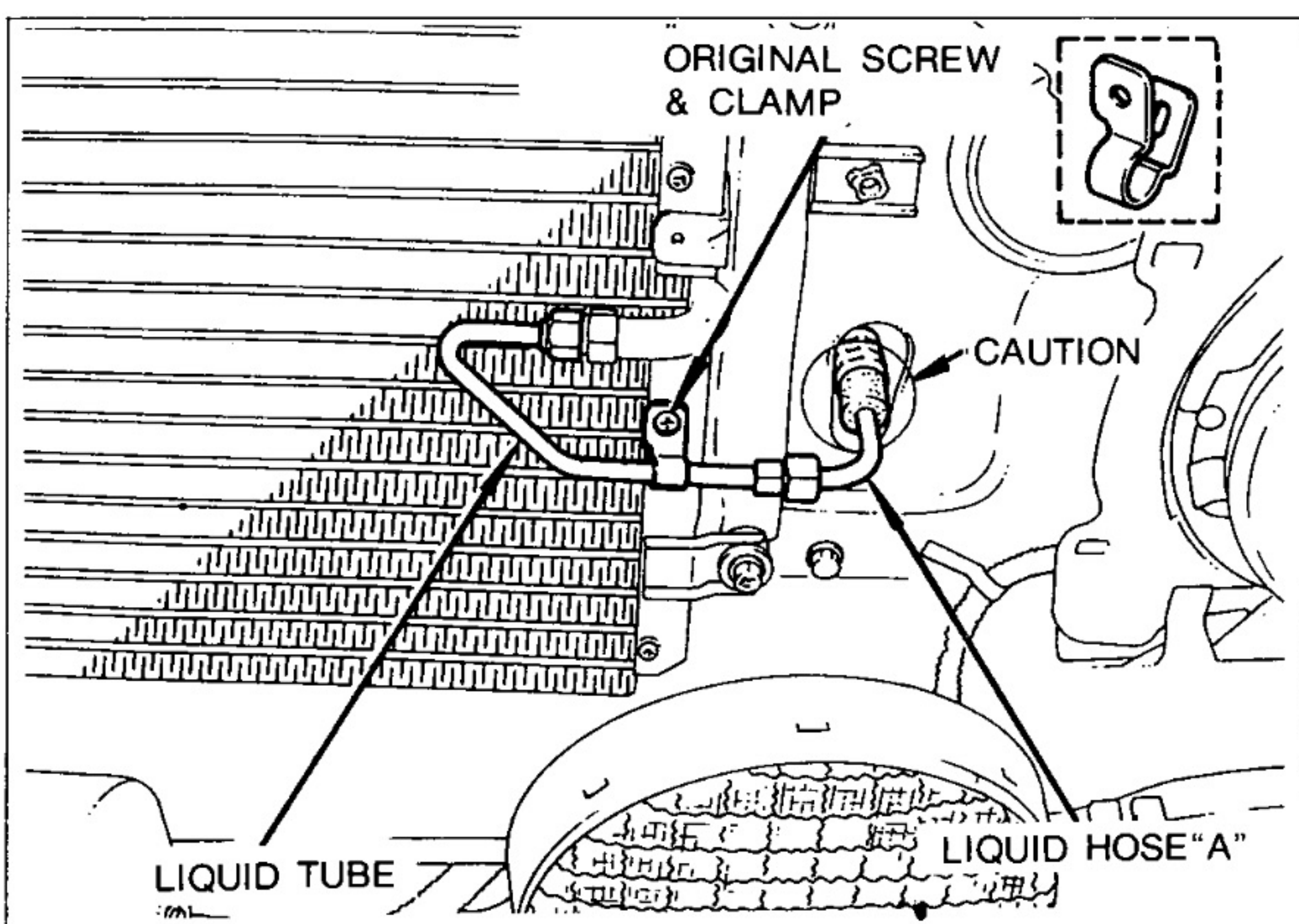


Fig.36

(2) LIQUID TUBE

- (a) Connect the liquid tube to the condenser outlet fitting.
- (b) Fasten the liquid tube with the clamp using an original screw.

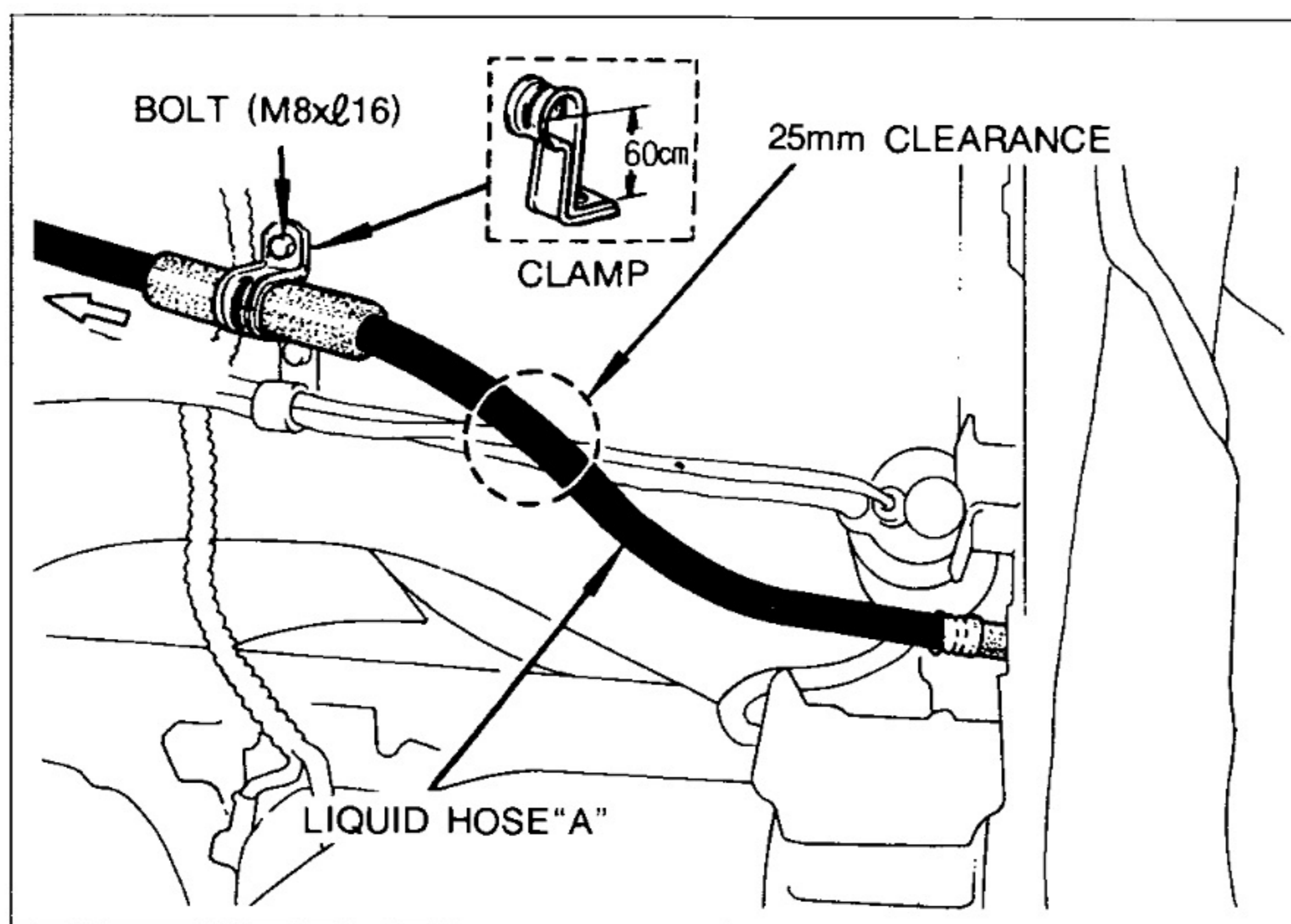


Fig.37

(3) LIQUID HOSE "A"

- (a) Connect the liquid hose "A" between the liquid tube and the receiver inlet fitting.

CAUTION

Make sure that the liquid hose "A" does not interfere with the body and that there is at least 25mm clearance at fuel lines.

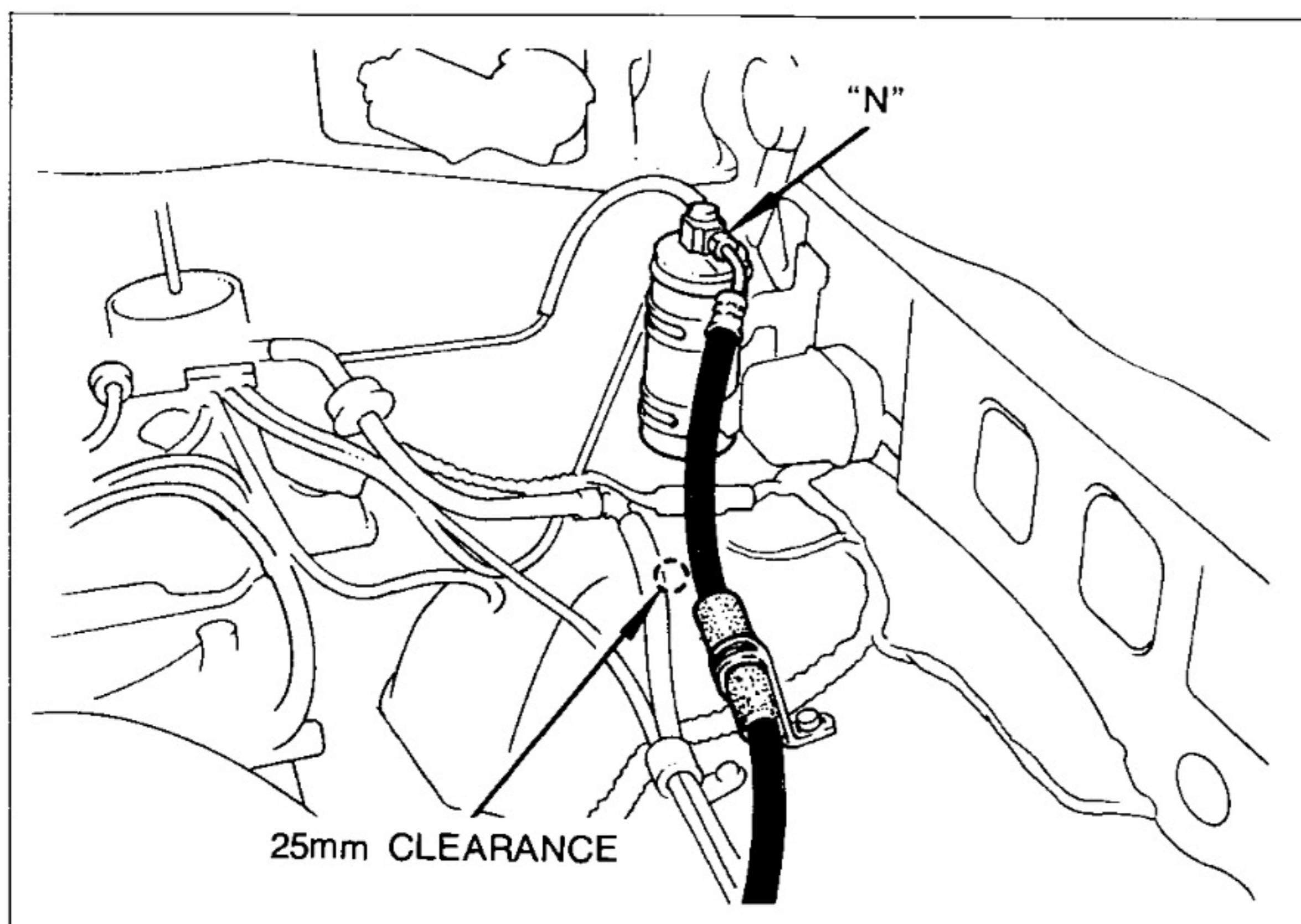


Fig.38

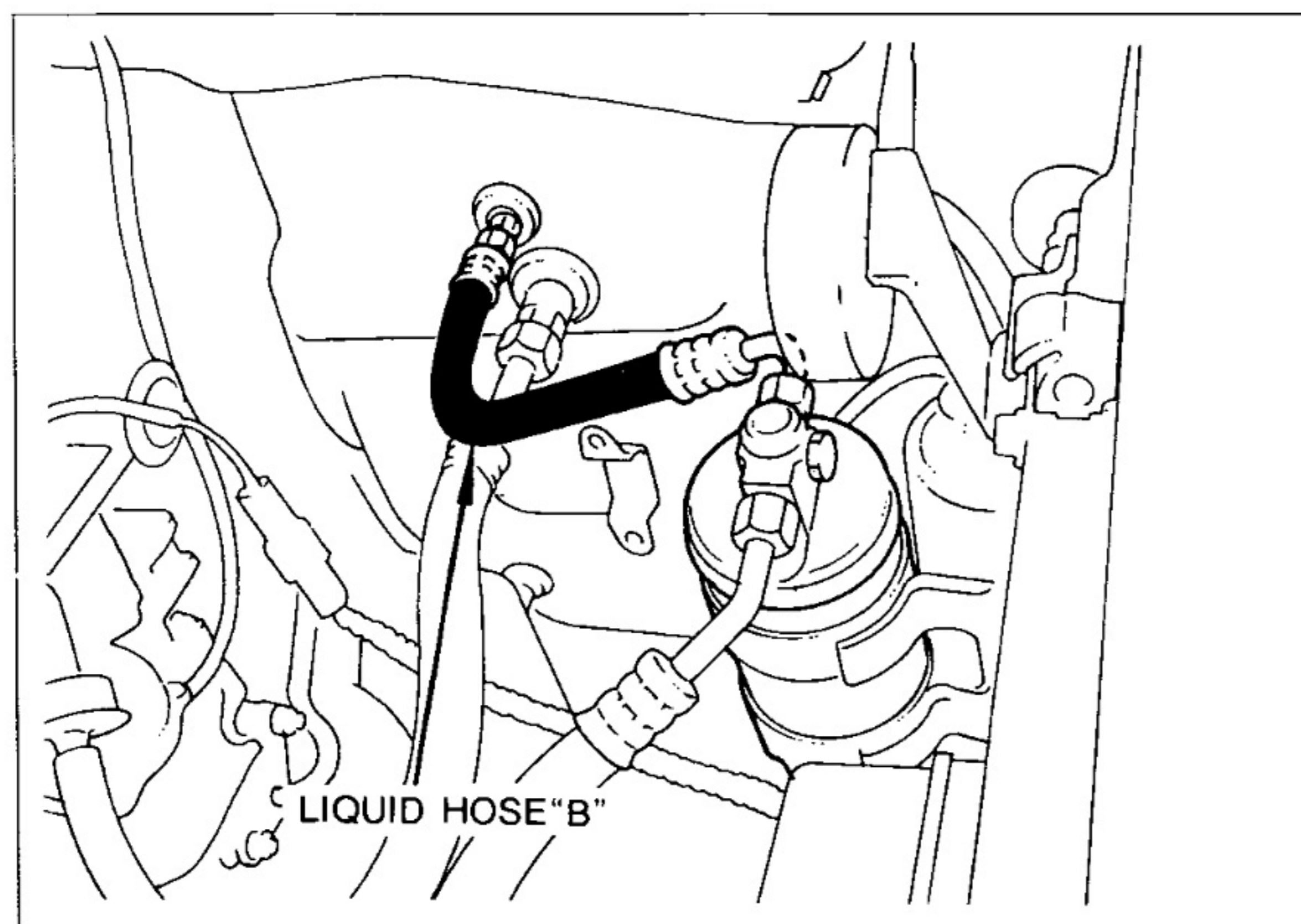


Fig.39

(4) LIQUID HOSE "B"

- (a) Connect the liquid hose "B" between the receiver outlet and the cooling unit inlet fitting.

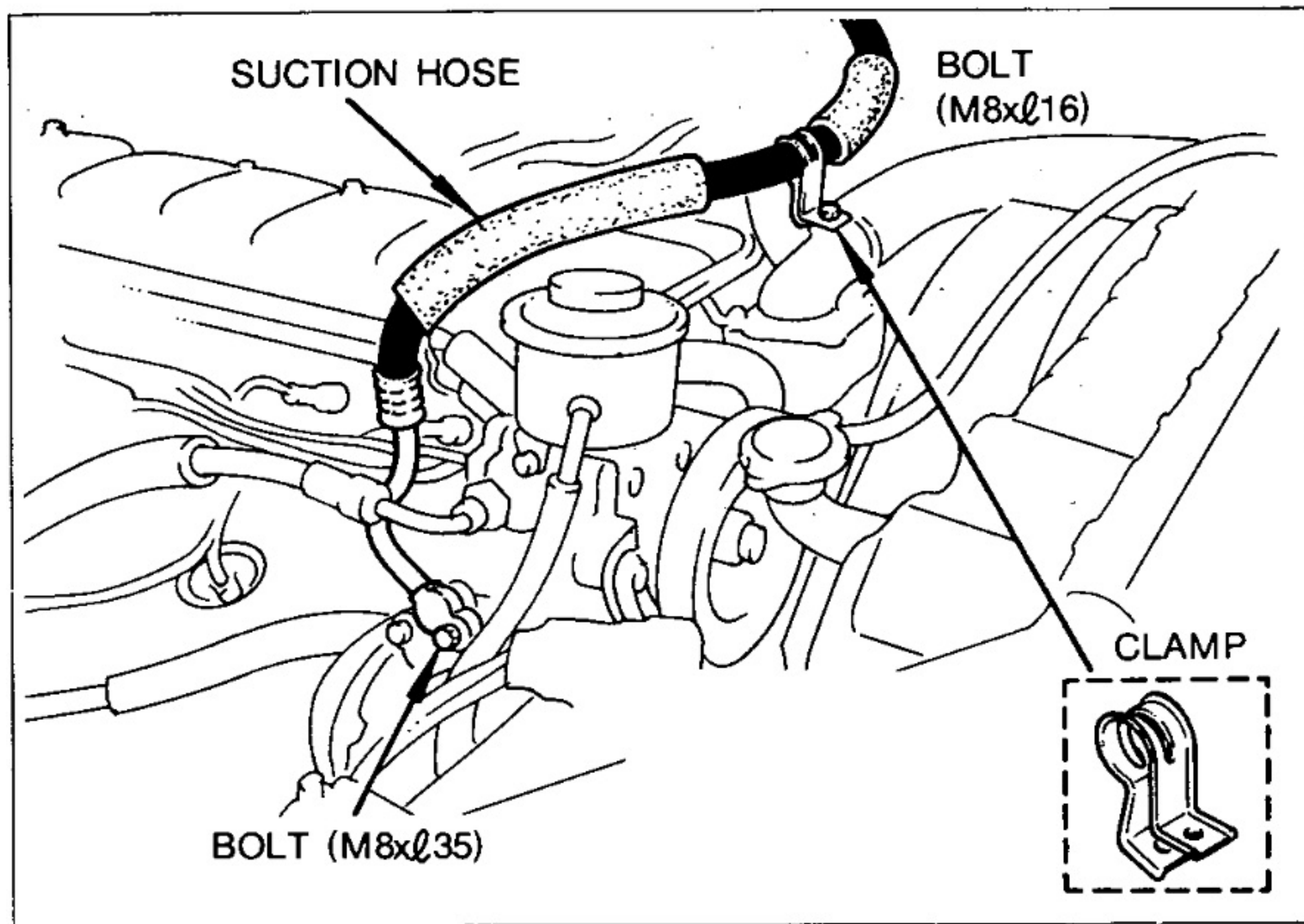


Fig.40

(5) SUCTION HOSE

- (a) Connect the suction hose between the compressor and the cooling unit outlet fitting.

Tightening Torque:

M8 bolt 20~30 N-m (15~22 ft-lbs)

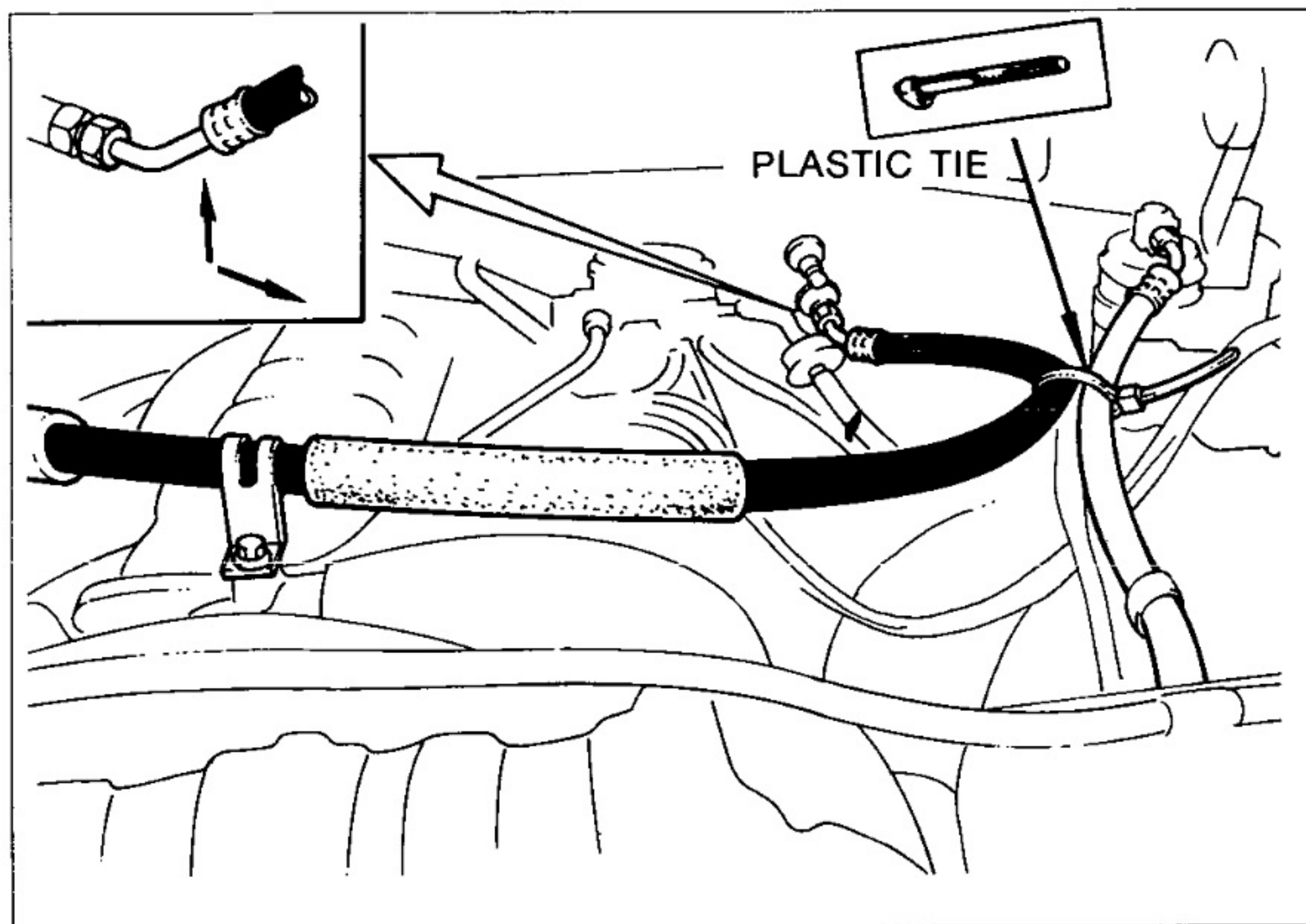


Fig.41

- (b) Fasten the suction hose with the liquid hose "A" using a plastic tie.

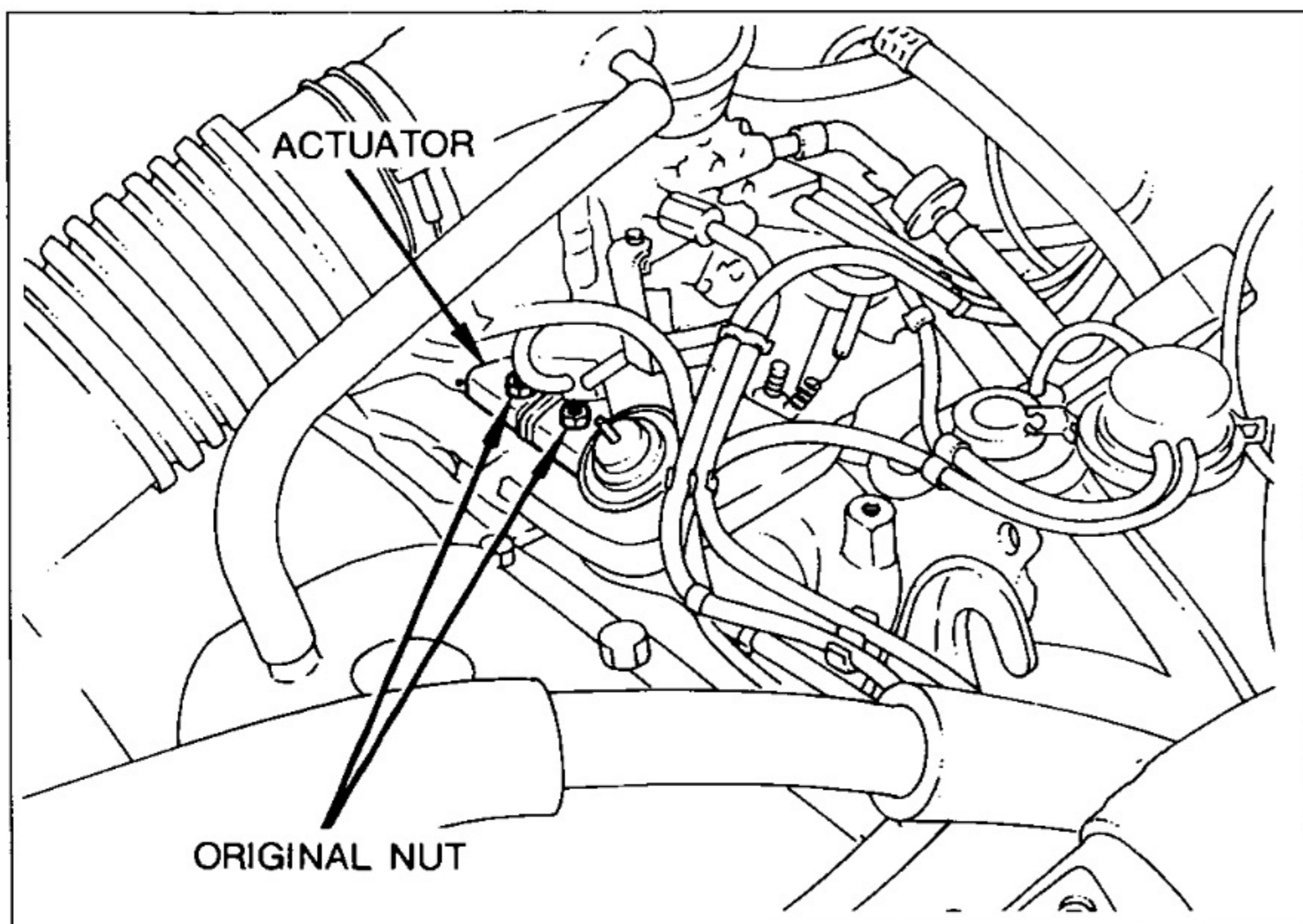


Fig.42

1.4 ENGINE IDLE SPEED CONTROL DEVICE (FJ62 SERIES)

(1) ACTUATOR

- (a) Install the actuator onto the carburettor using the two original nuts of the carburettor.

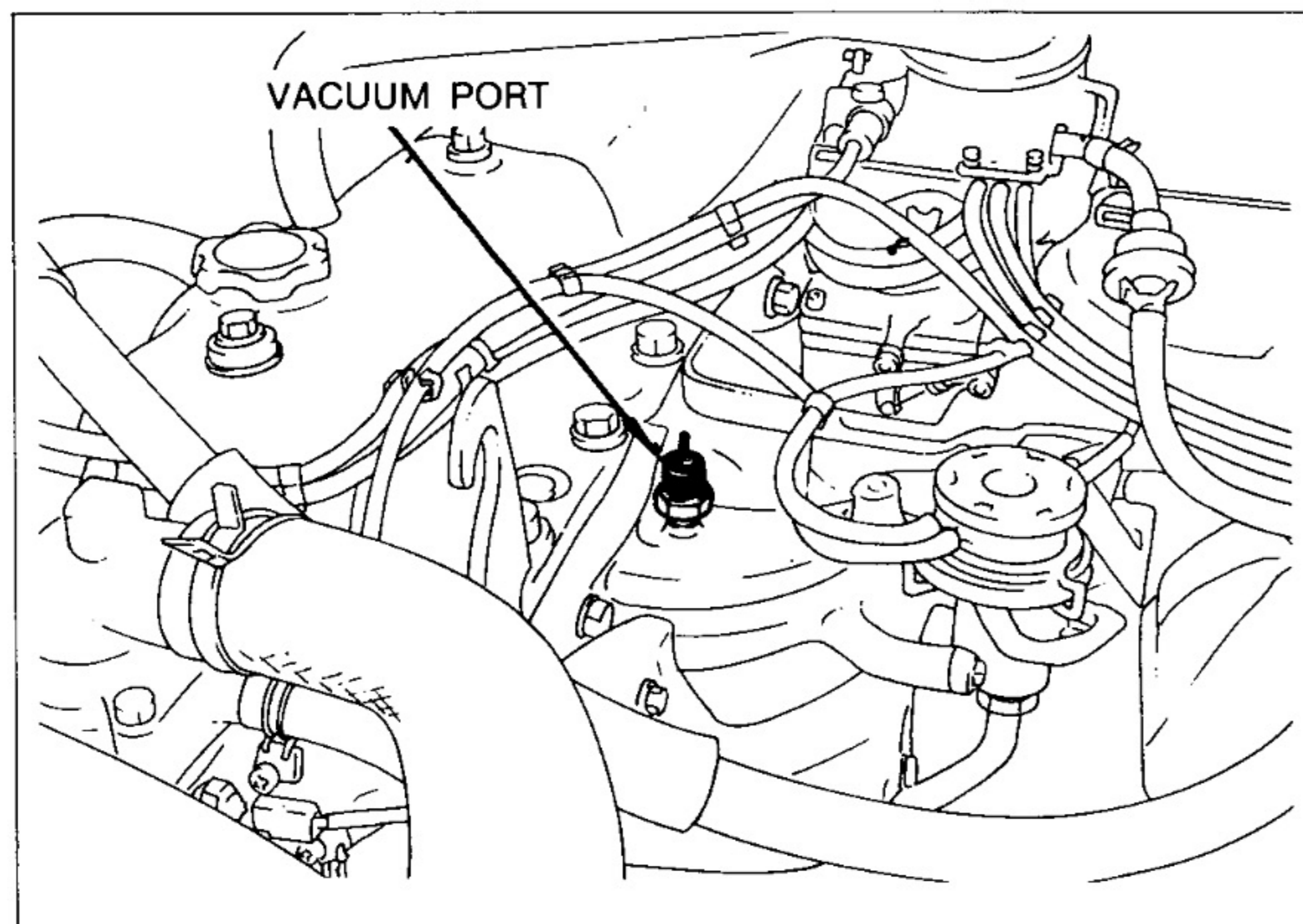


Fig.43

(2) VACUUM PORT

- (a) Remove the plug on the intake manifold.
- (b) Install the vacuum port.

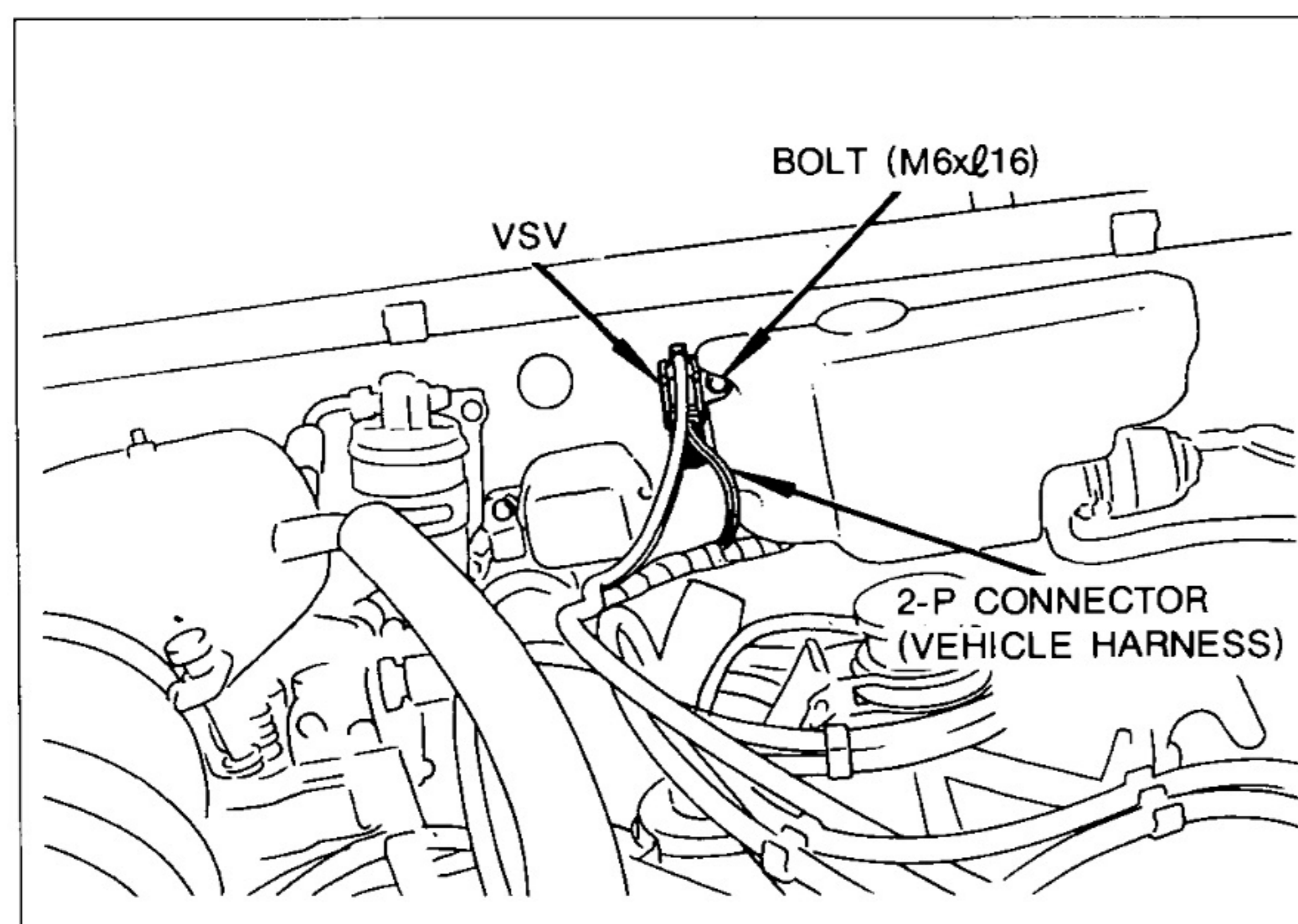


Fig.44

(3) V.S.V.

- (a) Install the V.S.V. onto the inner guard using the mounting bolt for the washer bottle.
- (b) Connect the vehicle harness to the V.S.V.

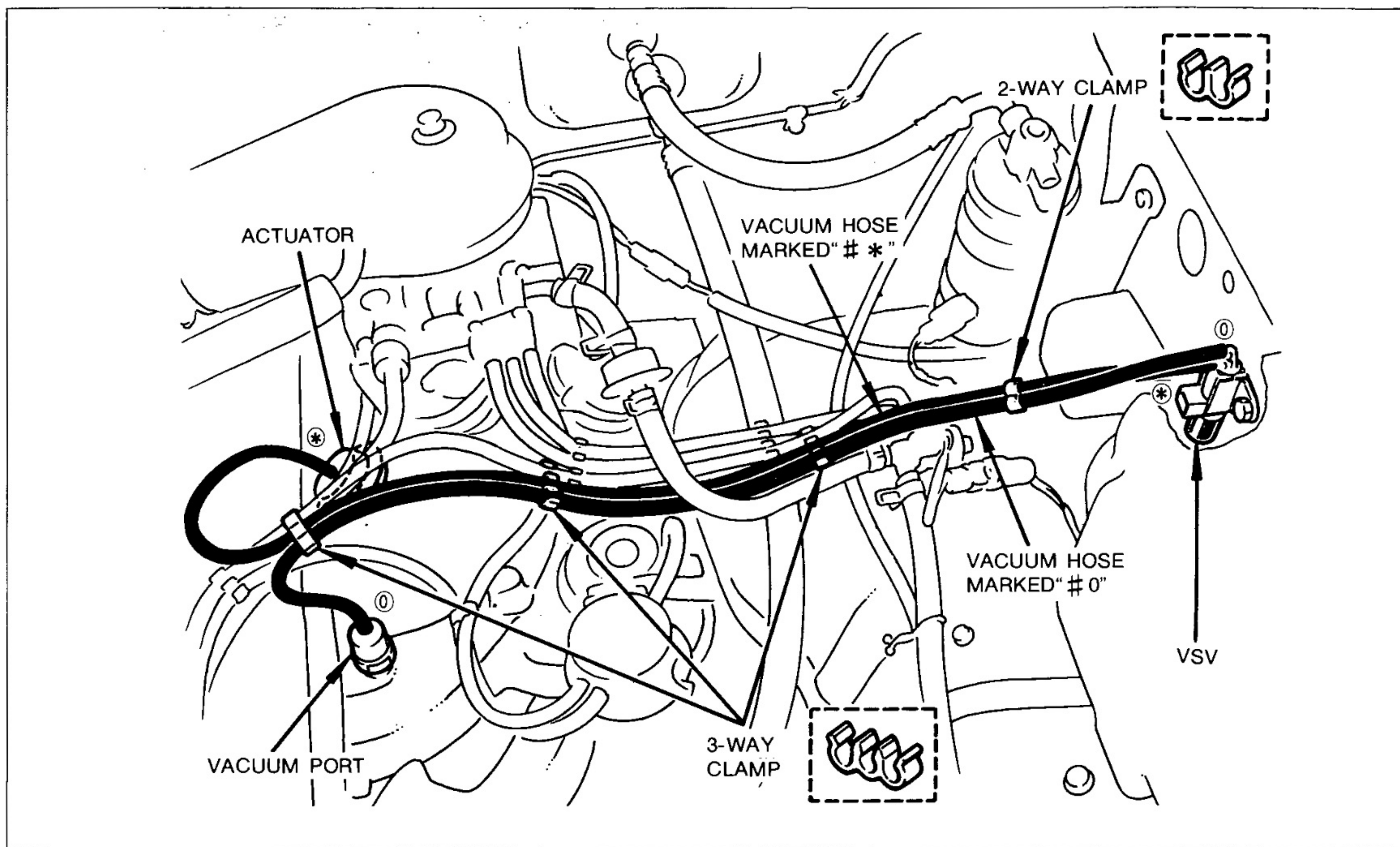


Fig.45

(4) VACUUM HOSE

- (a) Connect the vacuum hose marked "#0" from the V.S.V. to the vacuum port.
- (b) Connect the vacuum hose marked "#*" from the V.S.V. to the actuator.
- (c) Fasten the vacuum hose using the four clamps as shown in Fig. 45

NOTE

Make sure the vacuum hoses do not interfere with the liquid hose "A", suction hose and fuel hose.

1.5 INSTALLATION INSIDE THE ENGINE COMPARTMENT (HJ60, 61 SERIES)

(1) REMOVAL OF PARTS

Before installing air conditioner components into the engine compartment, the following parts should be removed.

① TEMPORARY REMOVAL

- (a) Battery and Carrier.
- (b) Blinkers.
- (c) Headlamp surround and grille.
- (d) Hood lock brace.
- (e) Cooling fan (remove the cooling fan together with fluid coupling).
- (f) Under cover.

② PERMANENT REMOVAL

- (a) Engine hanger.
- (b) Alternator adjusting bar and clamp of vehicle harness.

(2) COMPRESSOR AND BRACKETS

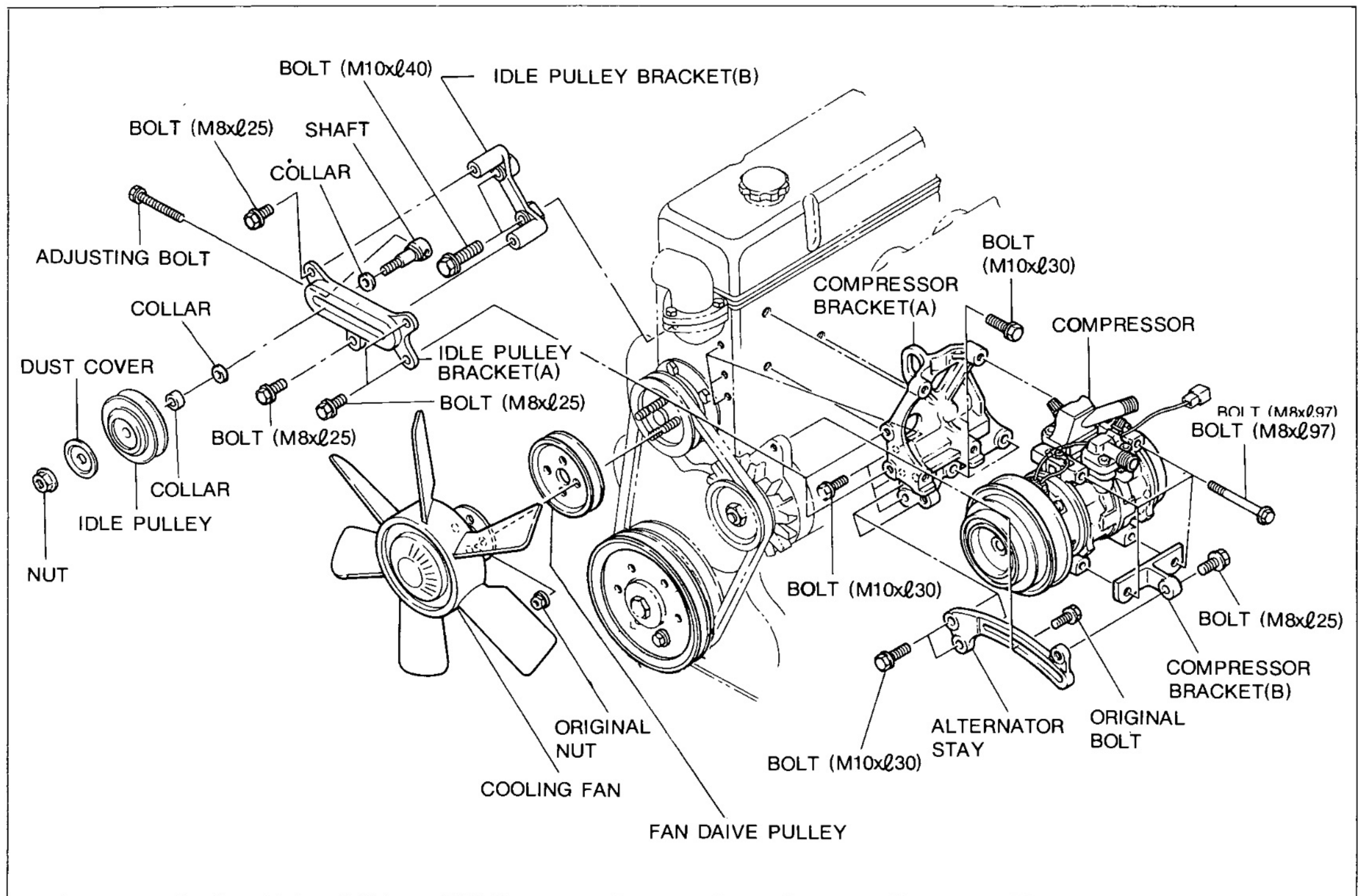


Fig.46

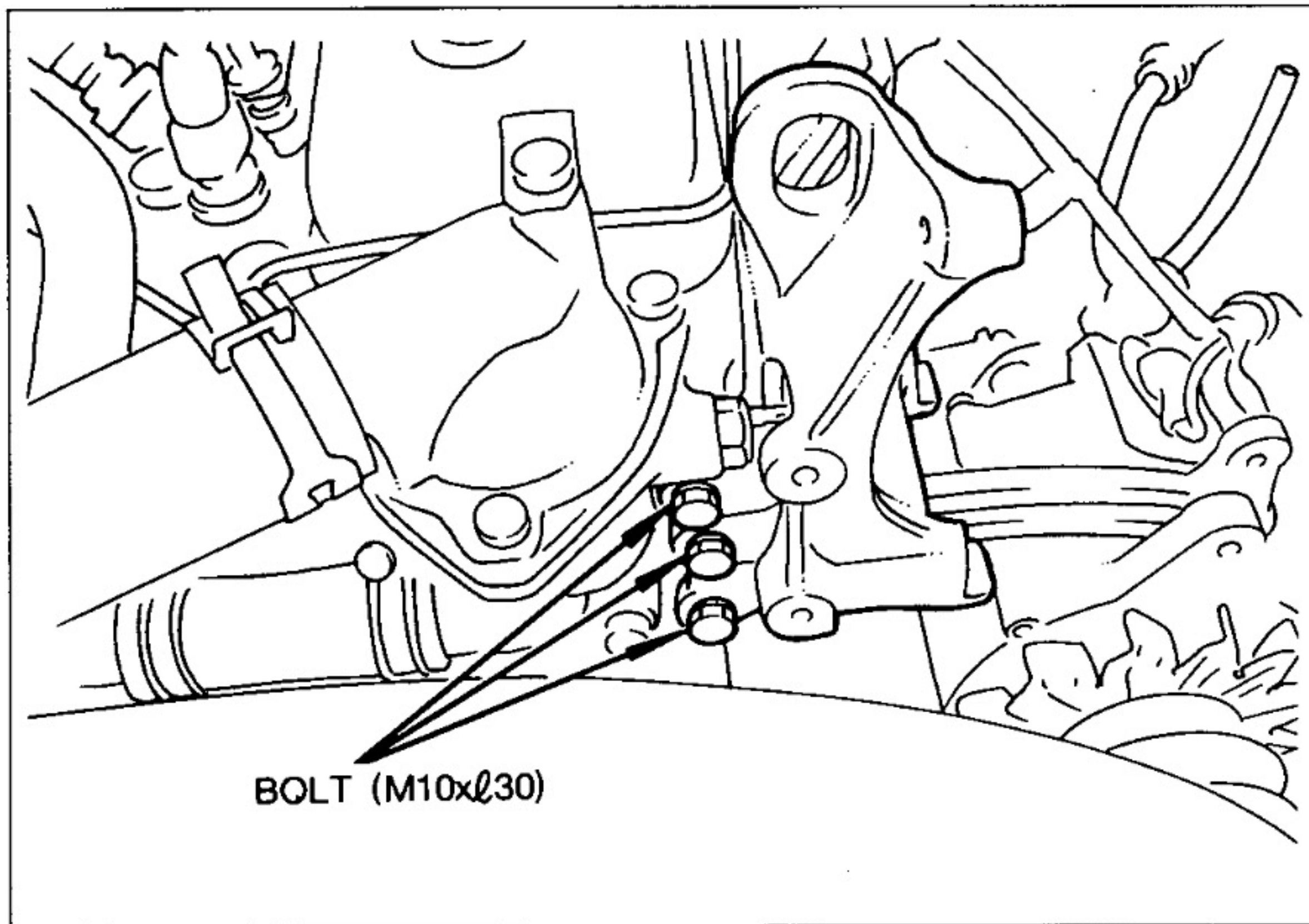


Fig.47

- (a) Install the compressor bracket "A".
- Tightening Torque:
M10 bolt 40~55 N-m (29~40 ft-lbs)

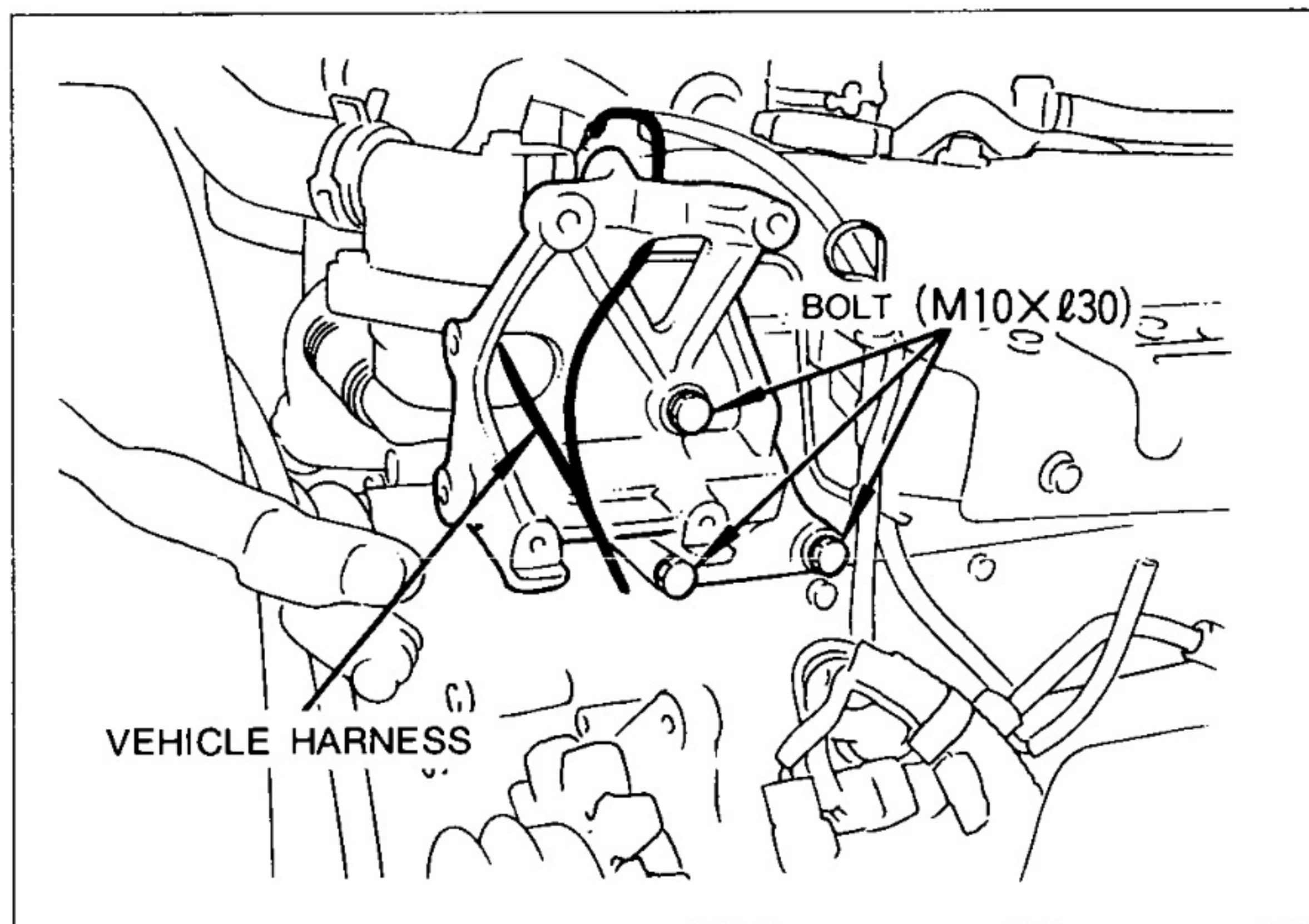


Fig.48

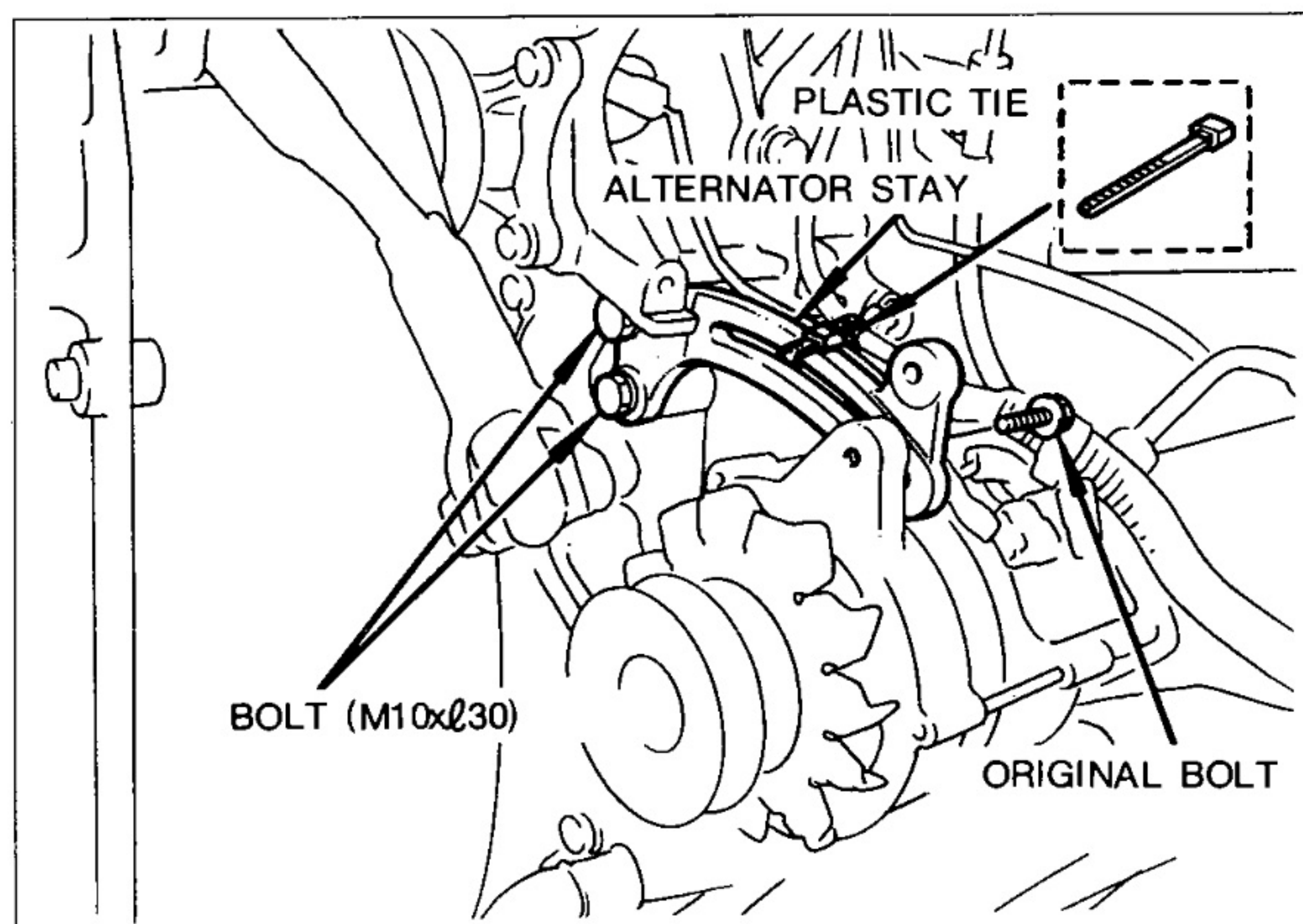


Fig.49

- (b) Install the alternator stay to the compressor bracket "A".
- Tightening Torque:
M10 bolt 40~55 N-m (29~40 ft-lbs)
- (c) Re-install the alternator.
- (d) Fasten the vehicle harness to the alternator stay using a plastic tie.

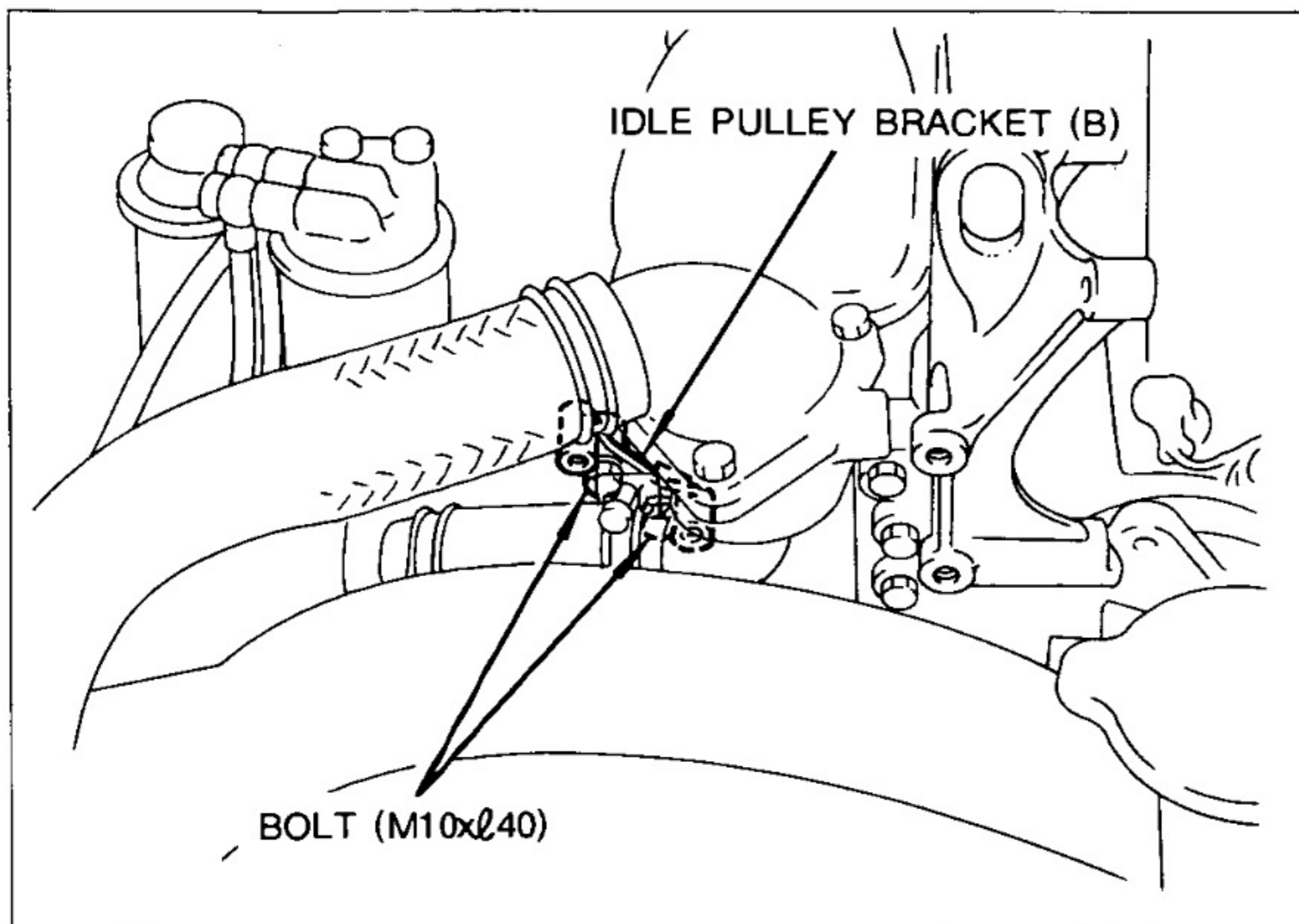


Fig.50

- (e) Install the idle pulley bracket "B".

Tightening Torque:

M10 bolt 40~55 N-m (29~40 ft-lbs)

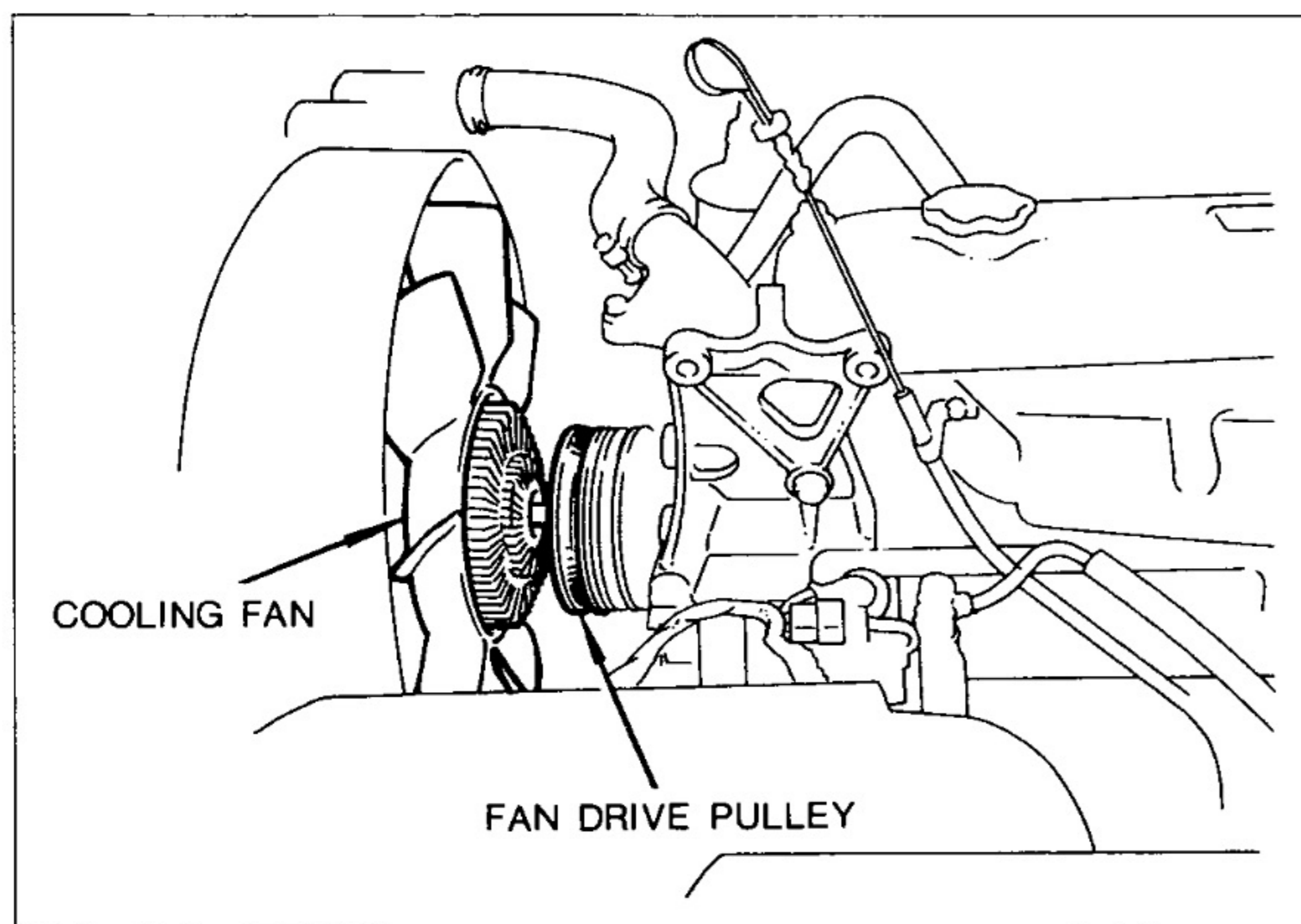


Fig.51

- (f) Install the fan drive pulley.

NOTE

Make sure that the "FR" mark is facing towards the front of the vehicle.

- (g) Re-install the cooling fan to the fan drive pulley using the original nuts.

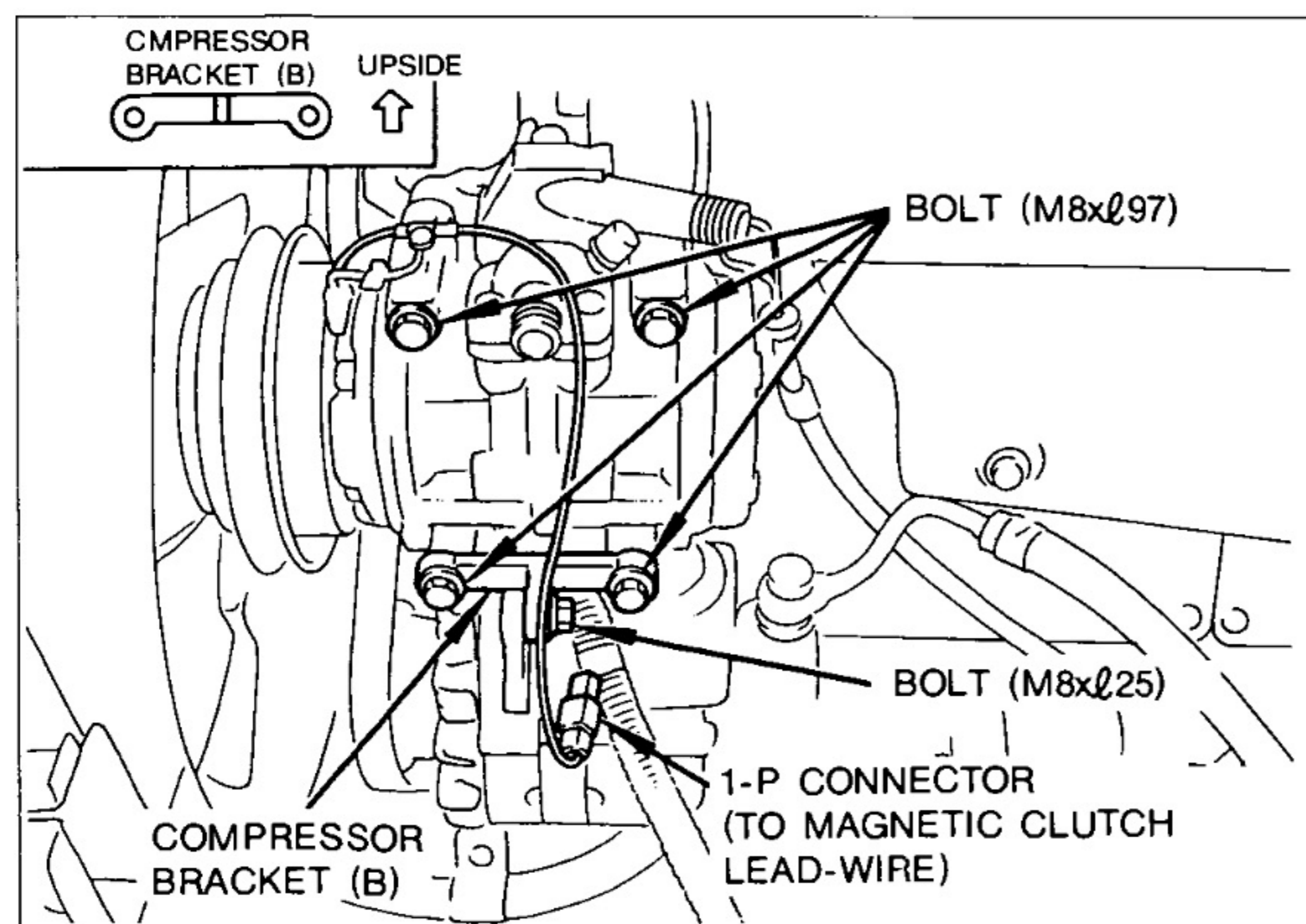


Fig.52

- (h) Install the compressor to the compressor brackets.

- (i) Install compressor bracket "B" to the compressor.

Tightening Torque:

M8 bolt 20~30 N-m (15~22 ft-lbs)

CAUTION

The white mark on the compressor bracket "B" should be facing outwards.

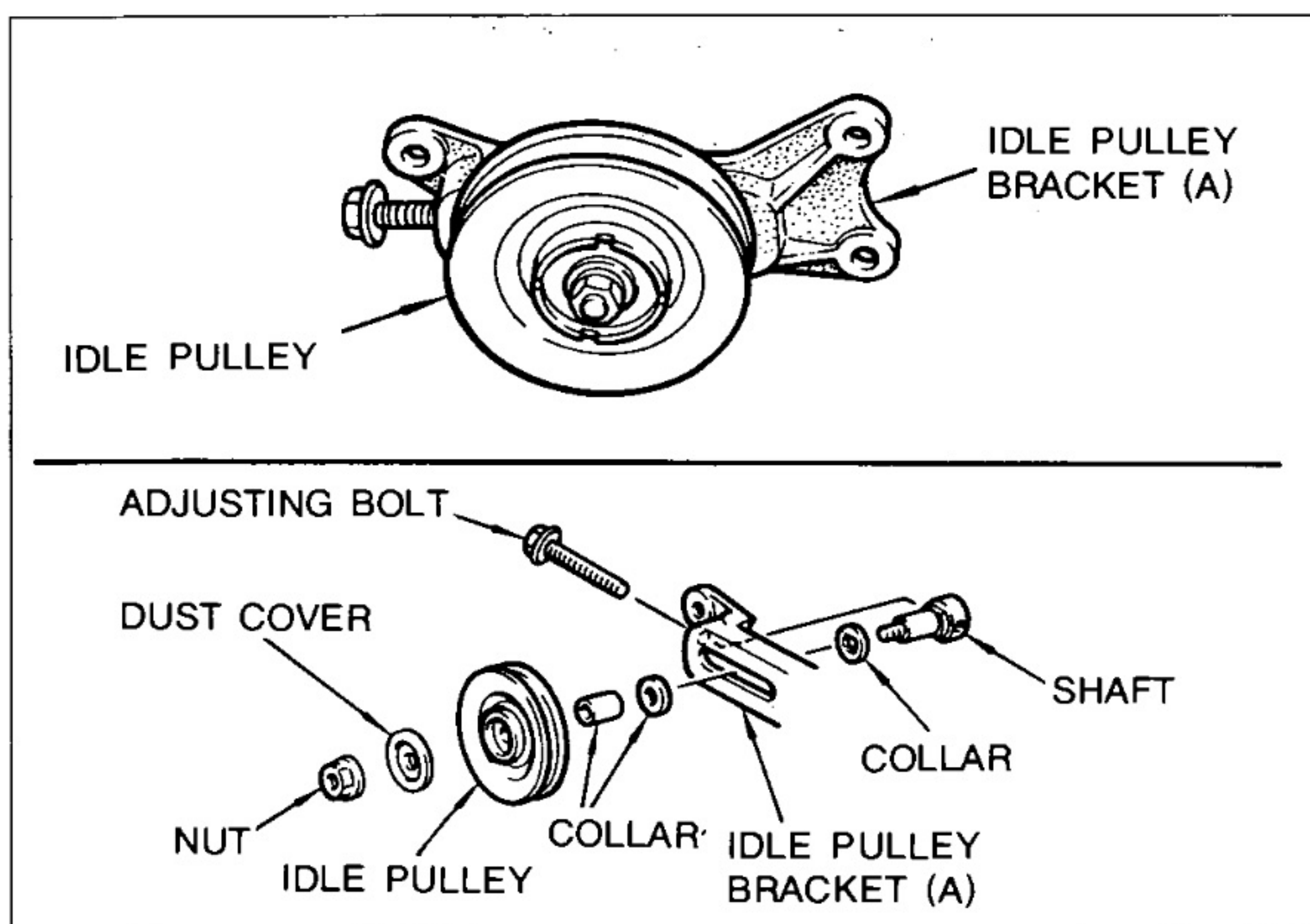


Fig.53

- (j) Connect the 1-P connector of the magnetic clutch to the vehicle harness.
- (k) Assemble the idle pulley to the idle pulley bracket "A".

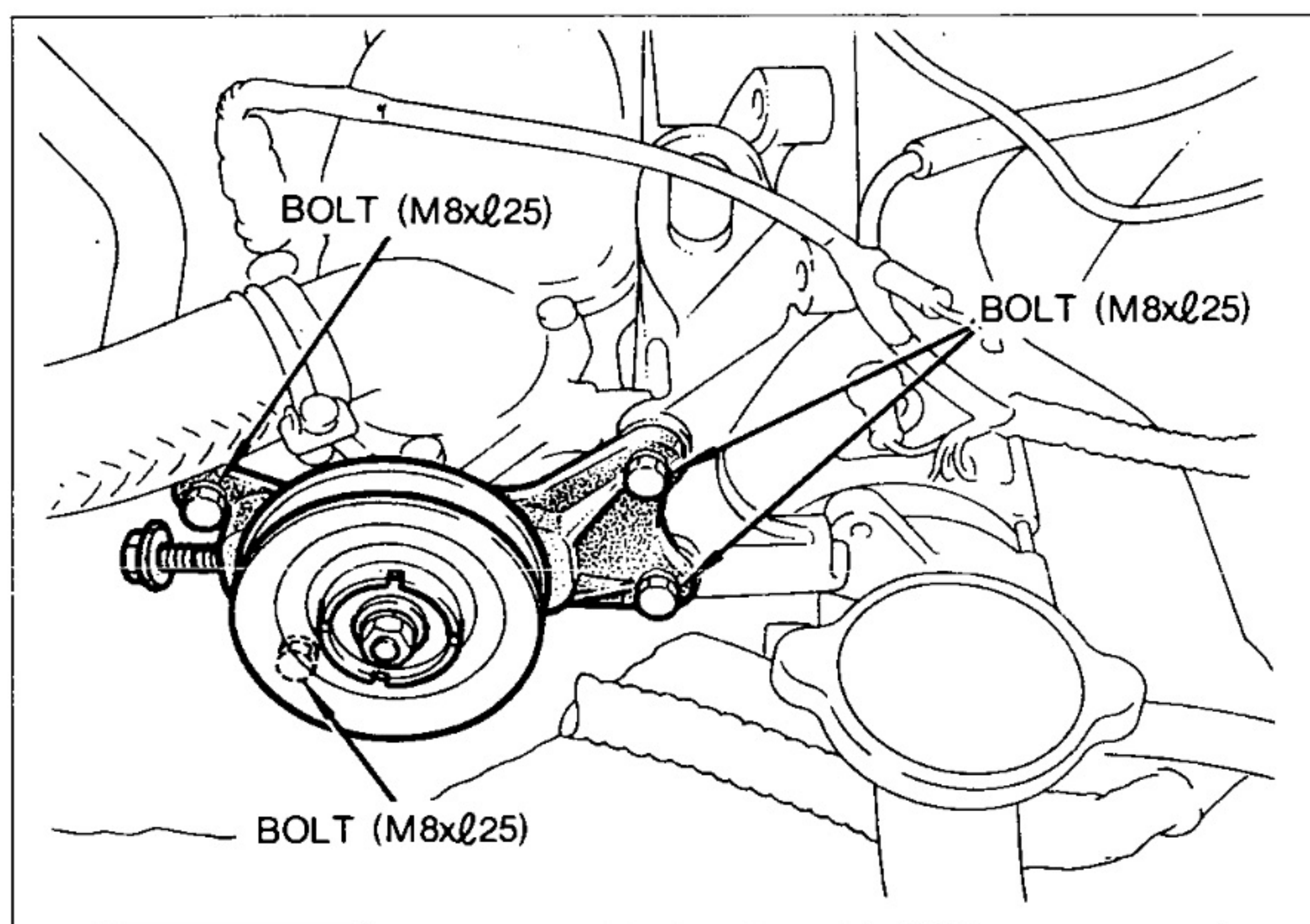


Fig.54

- (l) Install the idle pulley onto idle pulley bracket "B" and compressor bracket "A".

Tightening Torque:
20~30 N-m (15~22 ft-lbs).

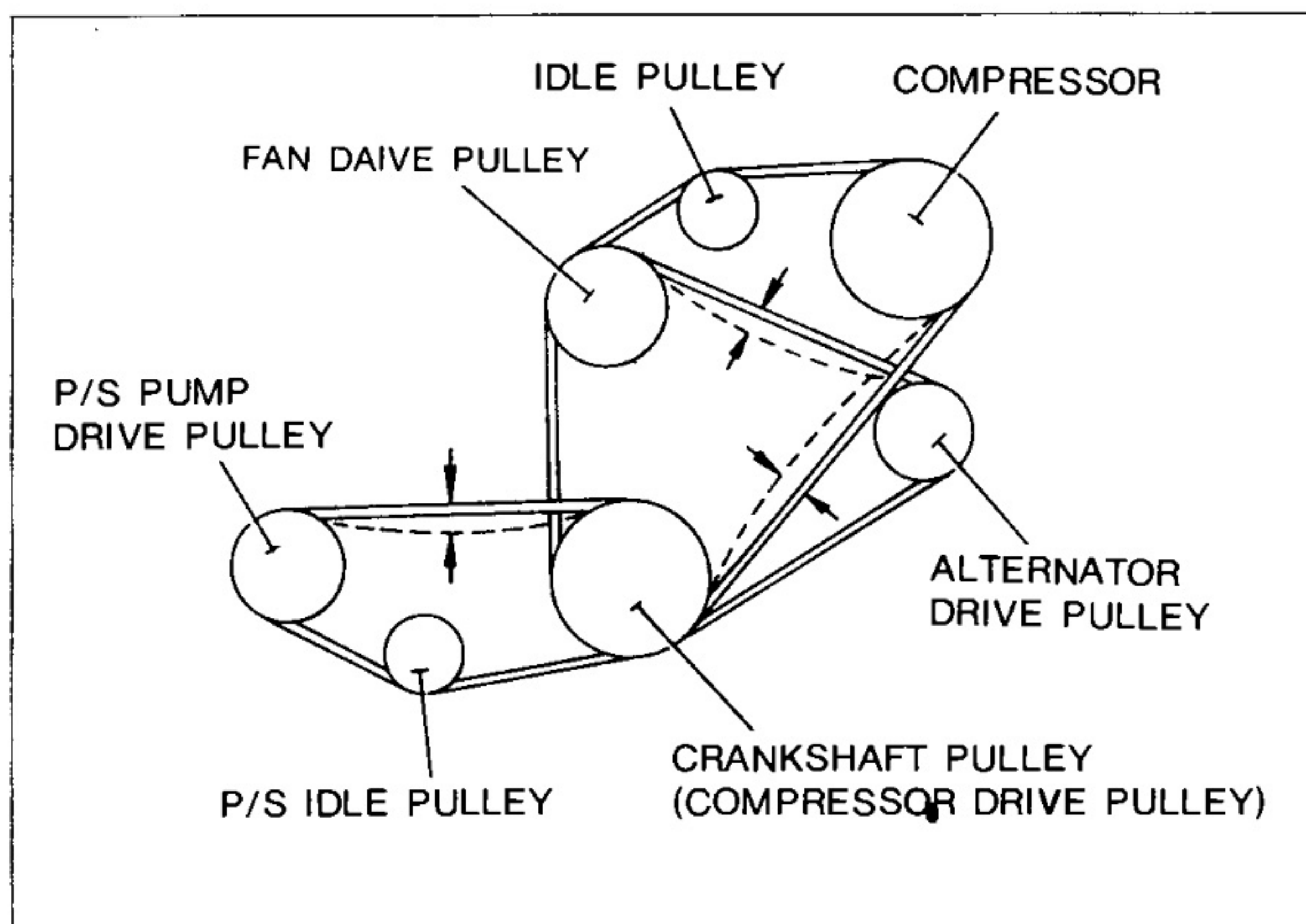


Fig.55

(3) COMPRESSOR DRIVE BELT

- (a) Install and adjust the tension of the compressor drive belt.

	TENSION
FAN DRIVE BELT	20~35 kg
COMPRESSOR DRIVE BELT	20~35 kg
P/S DRIVE BELT	20~35 kg

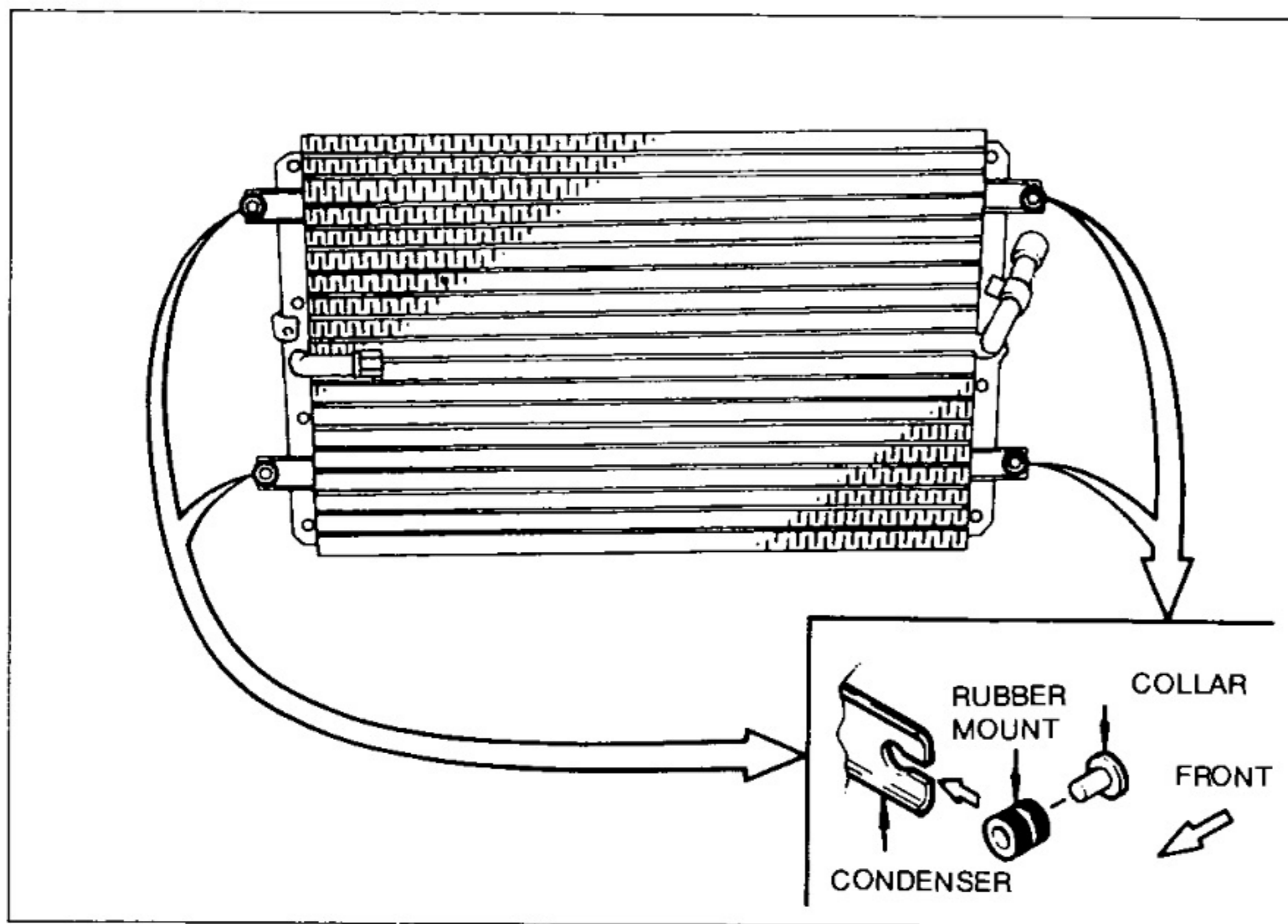


Fig.56

(4) CONDENSER

- (a) Install the rubber mounts and the collars to the condenser.

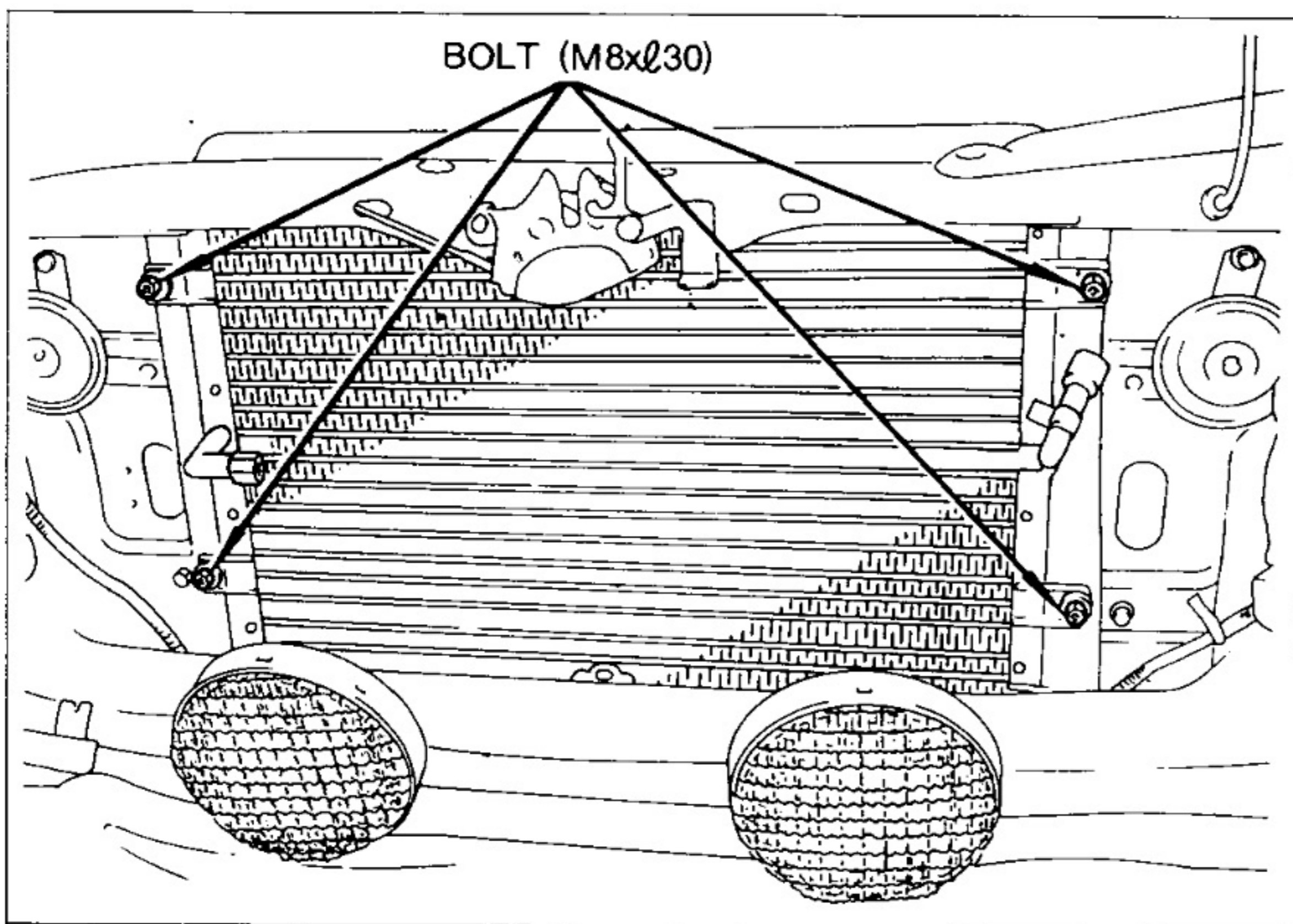


Fig.57

- (b) Install the condenser.

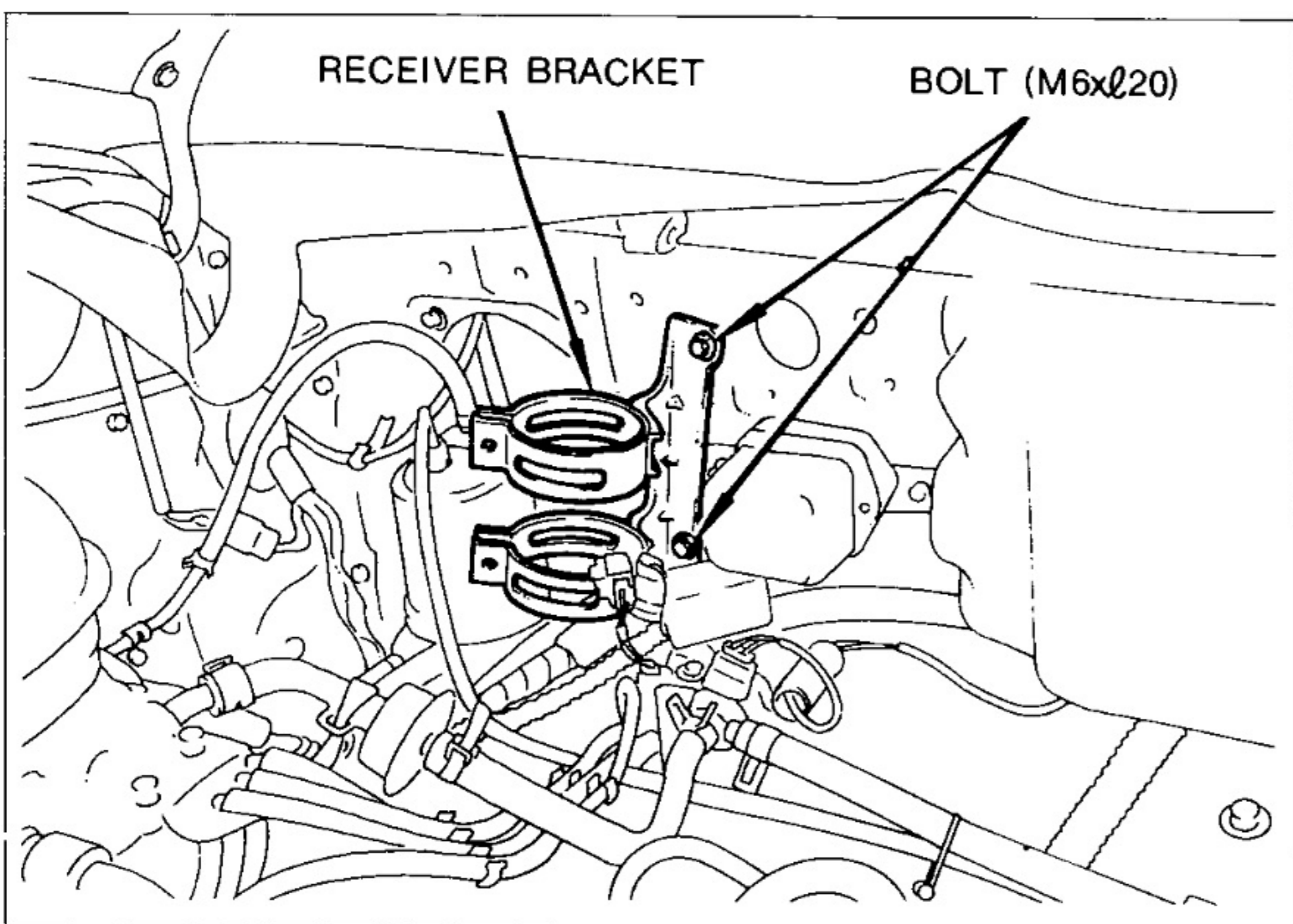


Fig.58

(5) RECEIVER

- (a) Install the receiver bracket

CAUTION

Make sure the receiver bracket does not interfere with the noise filter.

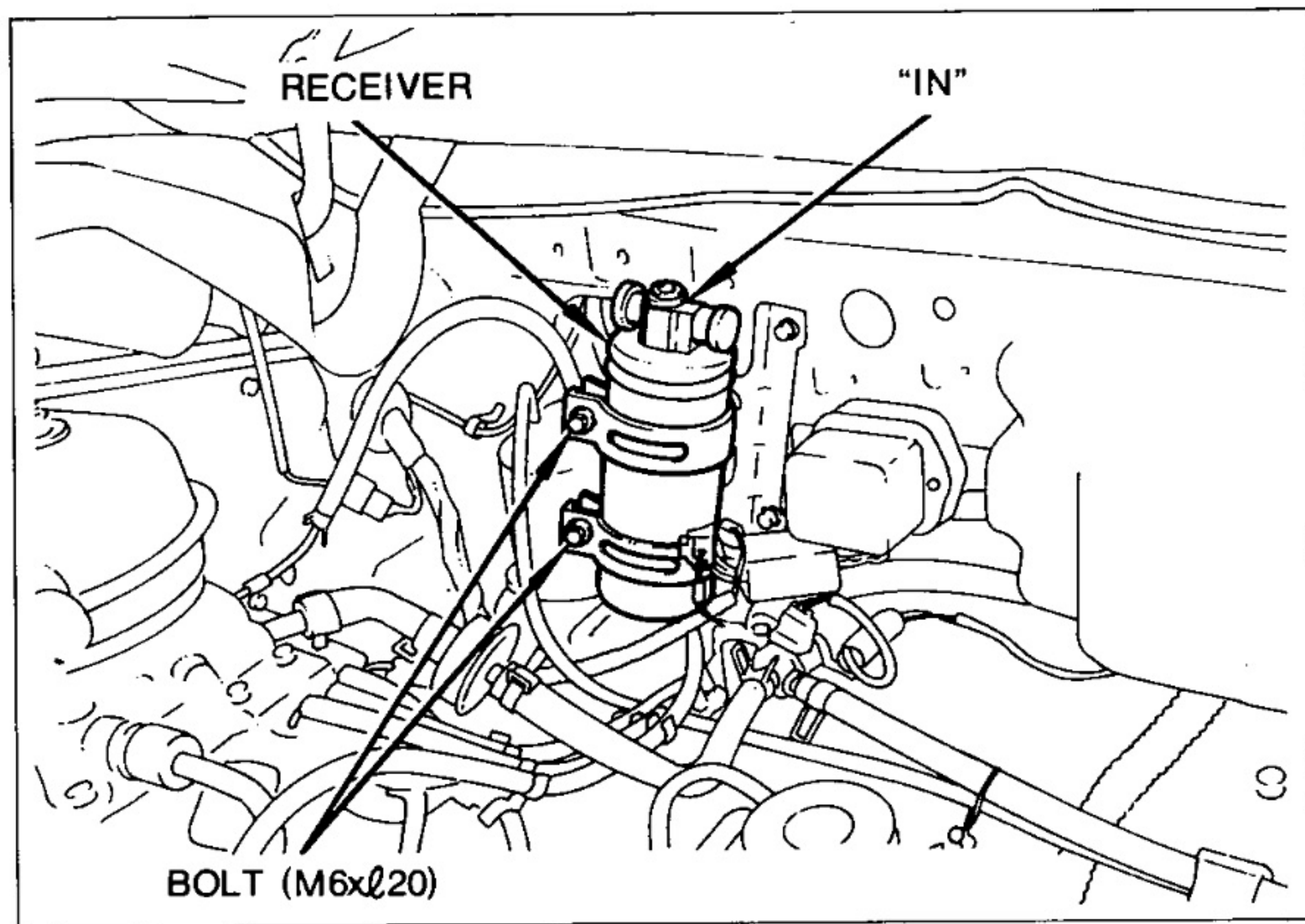


Fig.59

(b) Install the receiver into the receiver bracket.

CAUTION

- 1) *Do not tighten the bolts at this stage.*
- 2) *Make sure the receiver does not interfere with the vehicle harness.*

1.6 PIPEWORK (HJ60, 61 SERIES)

■ GENERAL

The following directions should be followed when installing refrigerant lines.

- (a) Do not remove any caps until you are ready to make a connection.
- (b) Make sure all refrigerant lines are routed as indicated and do not rub on surrounding parts.
- (c) Before making a connection, apply a few drops of refrigerant oil onto the O-ring.
- (d) When tightening fittings, use two wrenches to prevent the tubes from twisting.
- (e) Tighten all fittings to the following torques:

SUCTION TUBES AND HOSES	30~35 N-m (22~25 ft-lbs)
DISCHARGE TUBES AND HOSES	20~25 N-m (15~18 ft-lbs)
LIQUID TUBES AND HOSES	12~15 N-m (9~11 ft-lbs)
- (f) When handling the refrigerant R-12, wear eye protection and be careful that liquid refrigerant does not contact skin.

CAUTION

The compressor is shipped from the factory with a small charge of refrigerant to prevent corrosion. before uncapping the compressor, install the gauge set and slowly release the refrigerant charge.

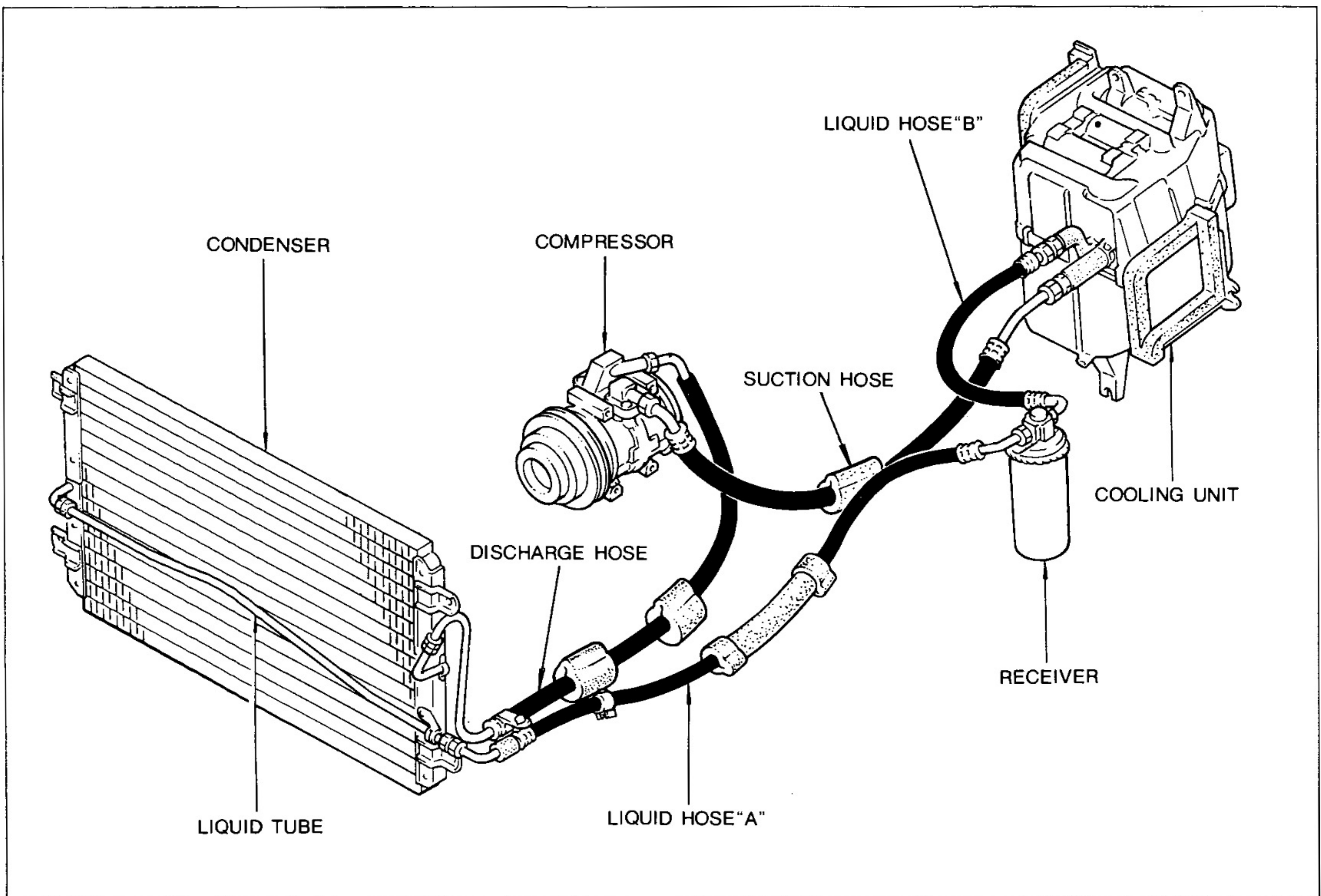


Fig.60

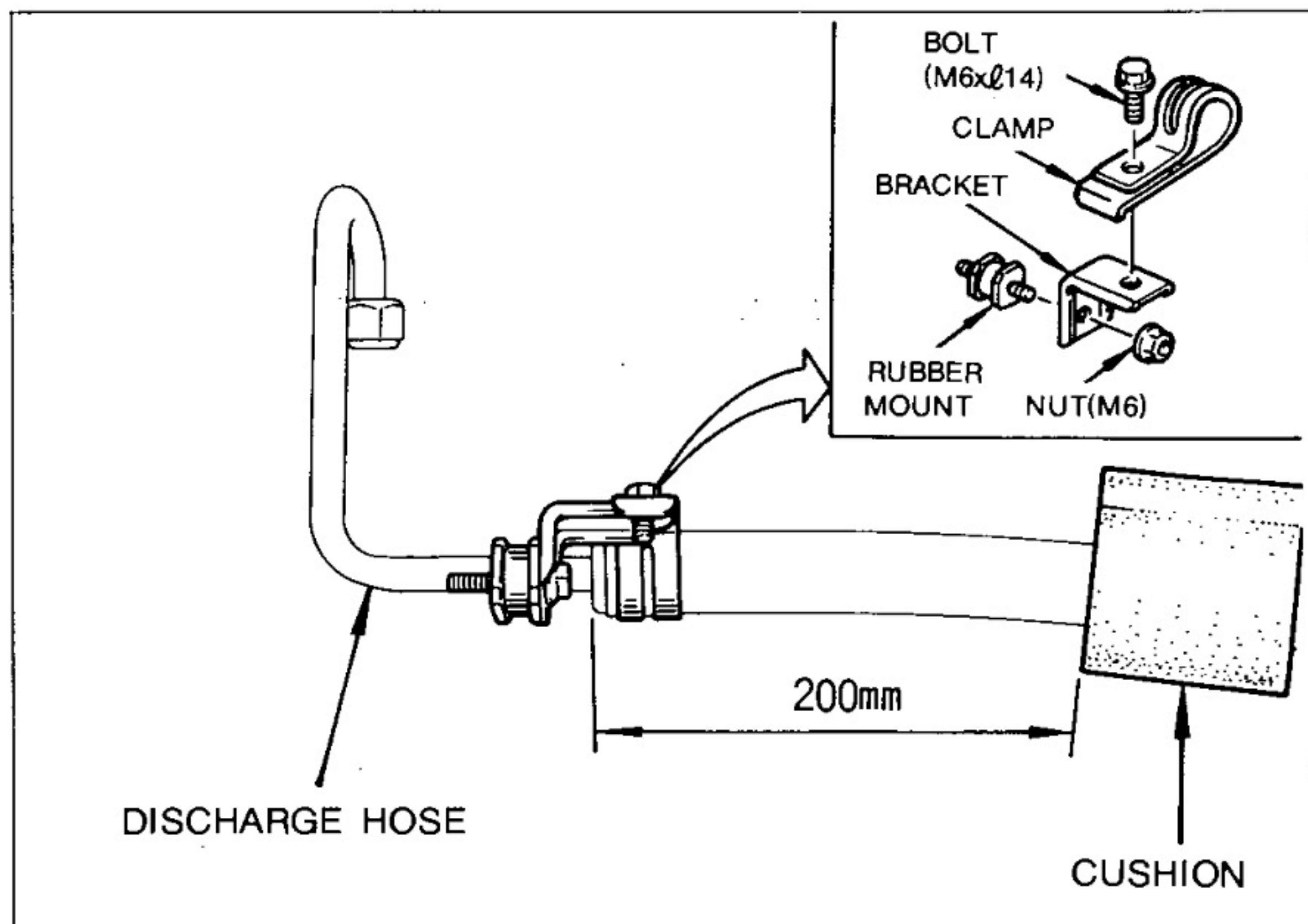


Fig.61

(1) DISCHARGE HOSE

- (a) Provide the discharge hose with a rubber cushion.
- (b) Install the bracket, clamp and rubber mount to the discharge hose.

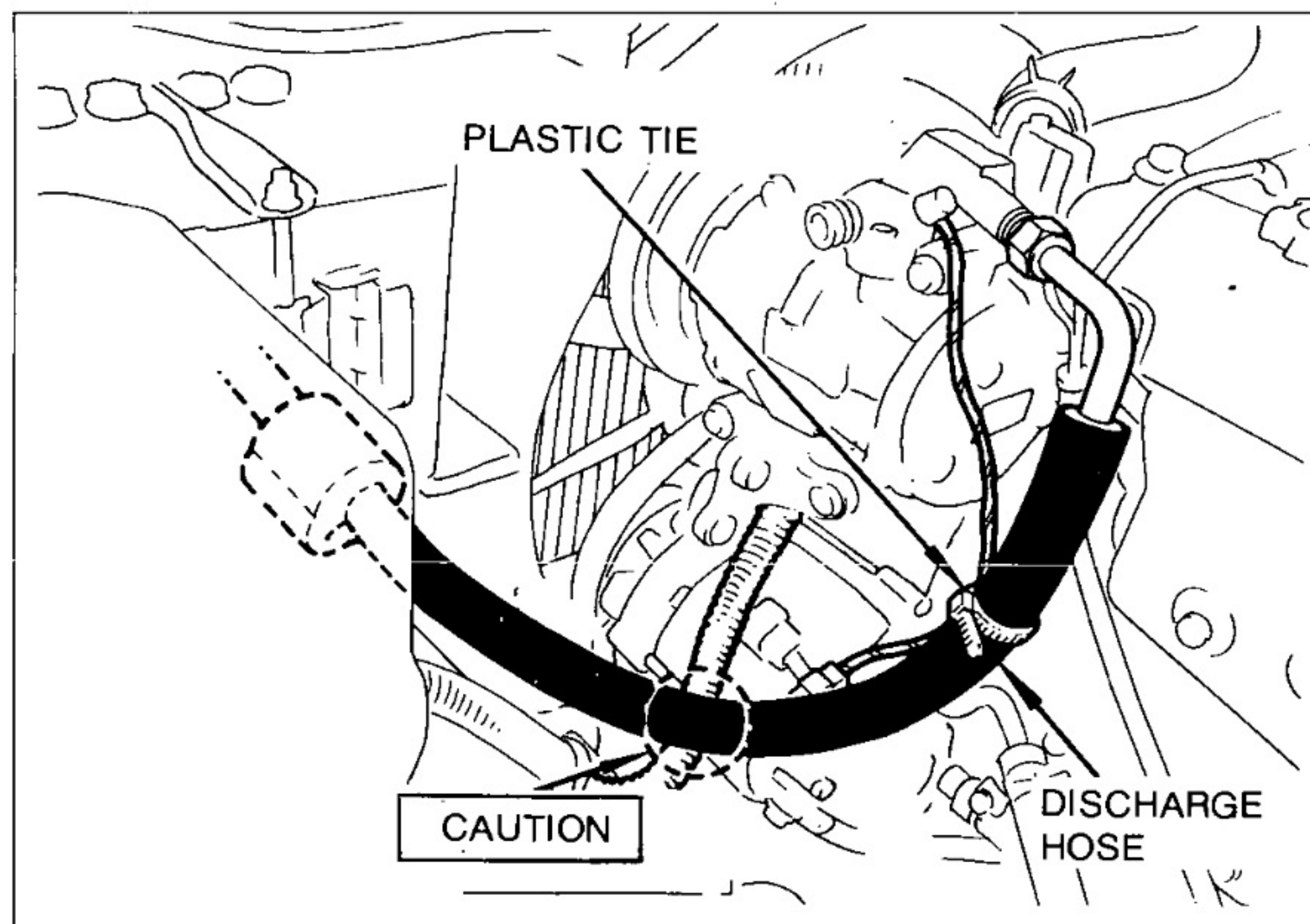


Fig.62

- (c) Connect the discharge hose between the compressor and the condenser inlet fitting.
- (d) Fasten the clutch lead wire to the discharge hose using a plastic tie.

CAUTION

Make sure that there is at least 30mm clearance between the discharge hose and the alternator harness.

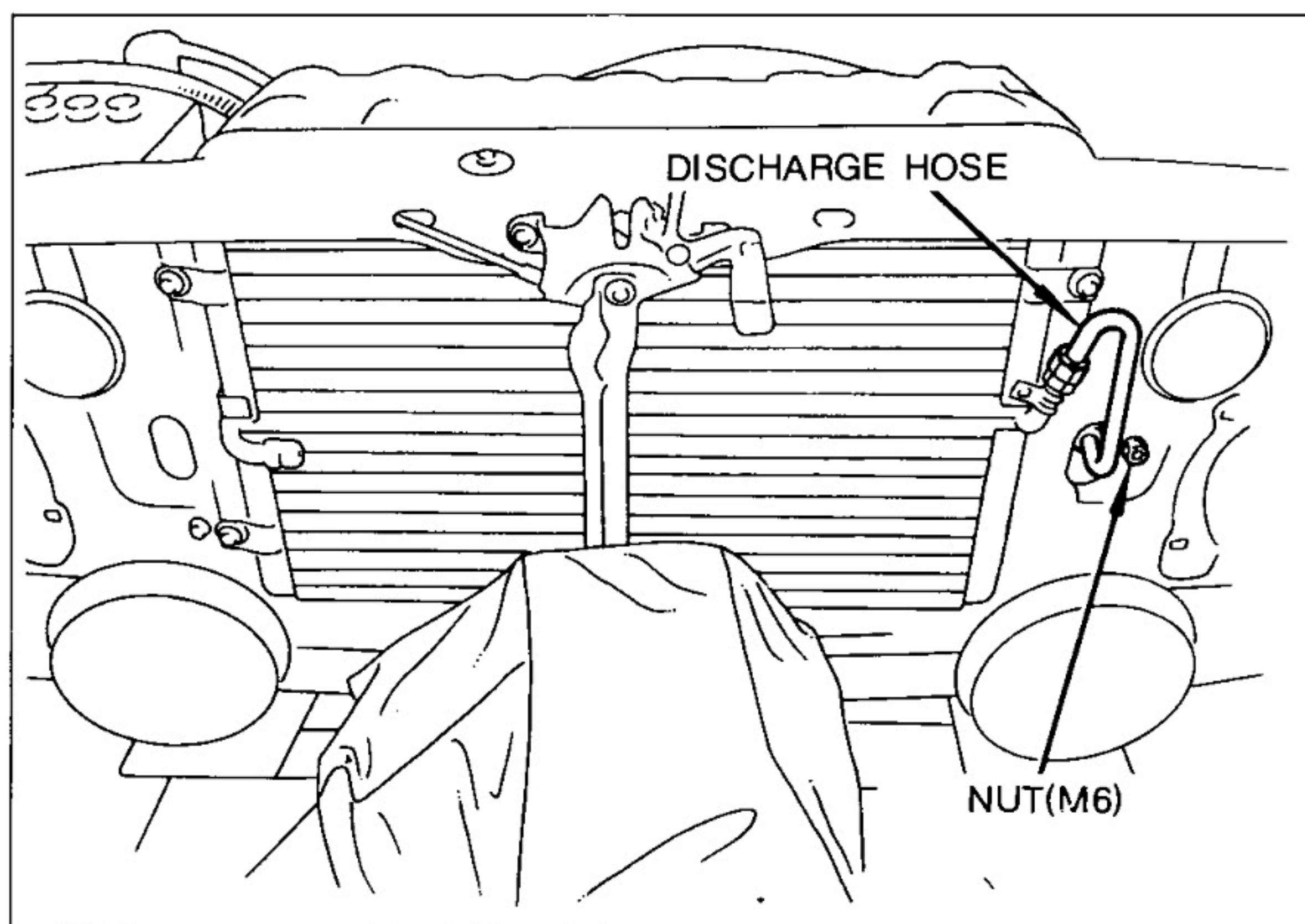


Fig.63

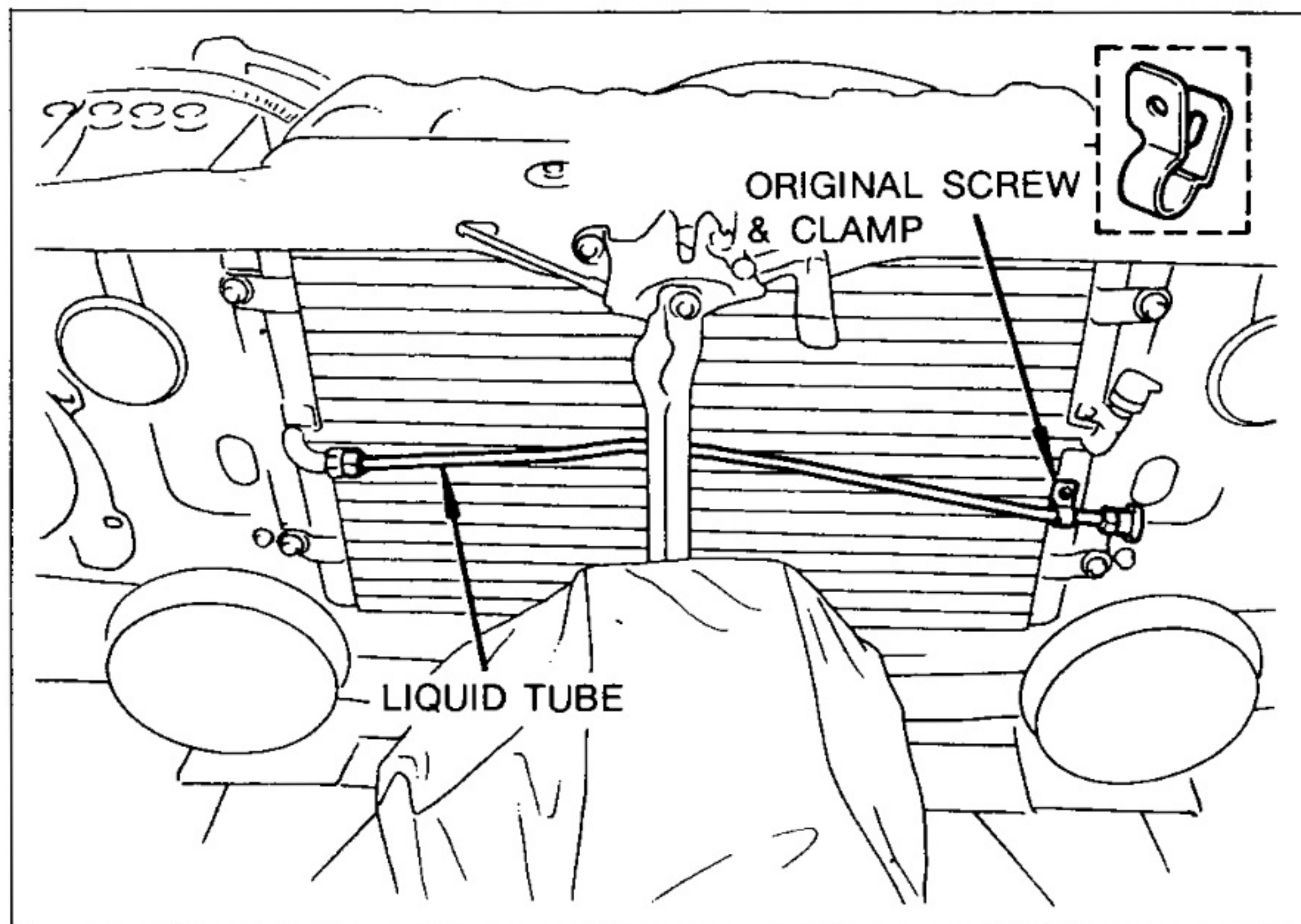


Fig.64

(2) LIQUID TUBE

- (a) Connect the liquid tube to the condenser outlet fitting.
- (b) Fasten the liquid tube with the clamp using an original screw.

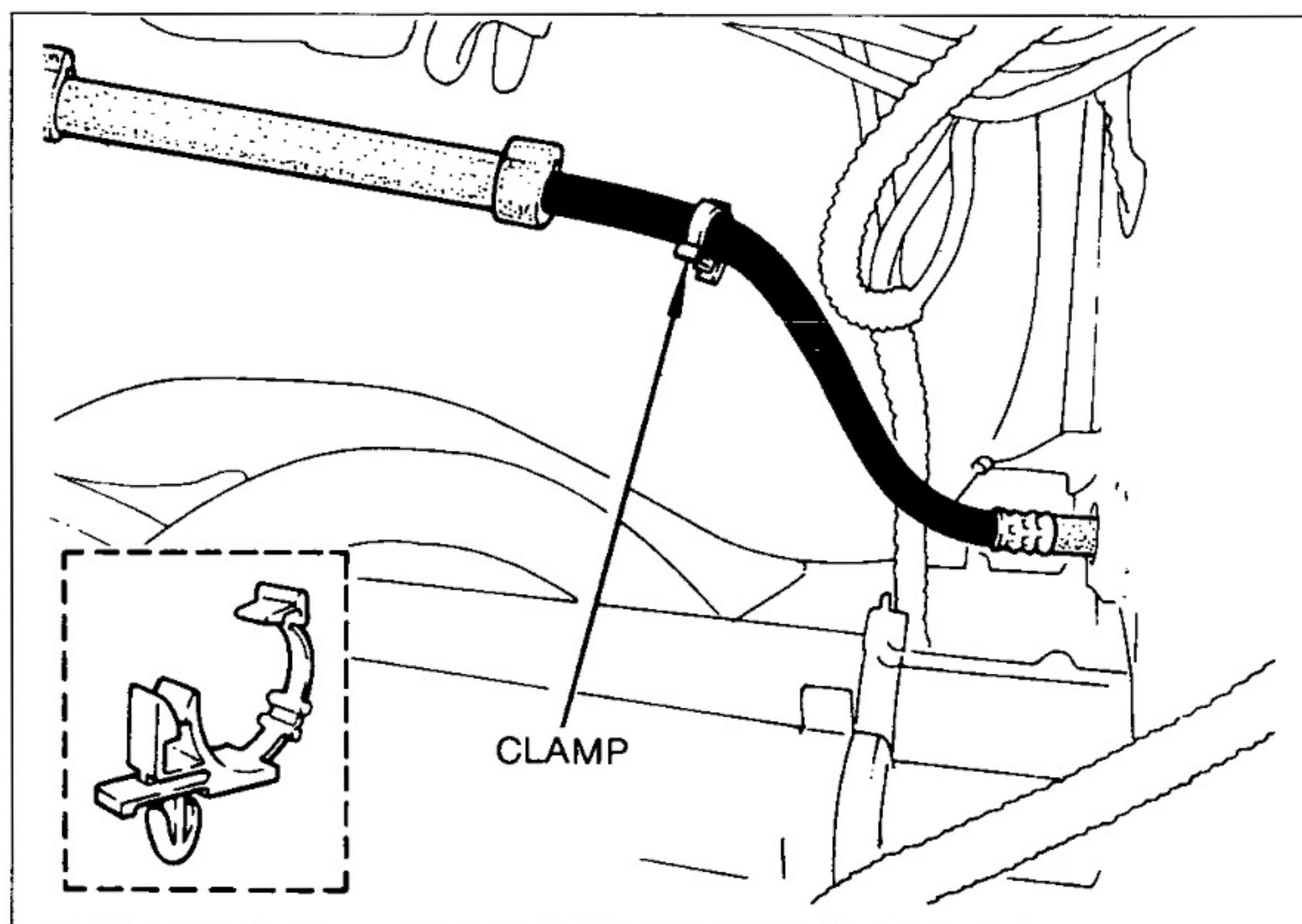


Fig.65

(3) LIQUID HOSE "A"

- (a) Connect the liquid hose "A" between the liquid tube and the receiver inlet fitting and clamp it to the fender.

CAUTION

Route the liquid hose "A" under the vehicle harness.

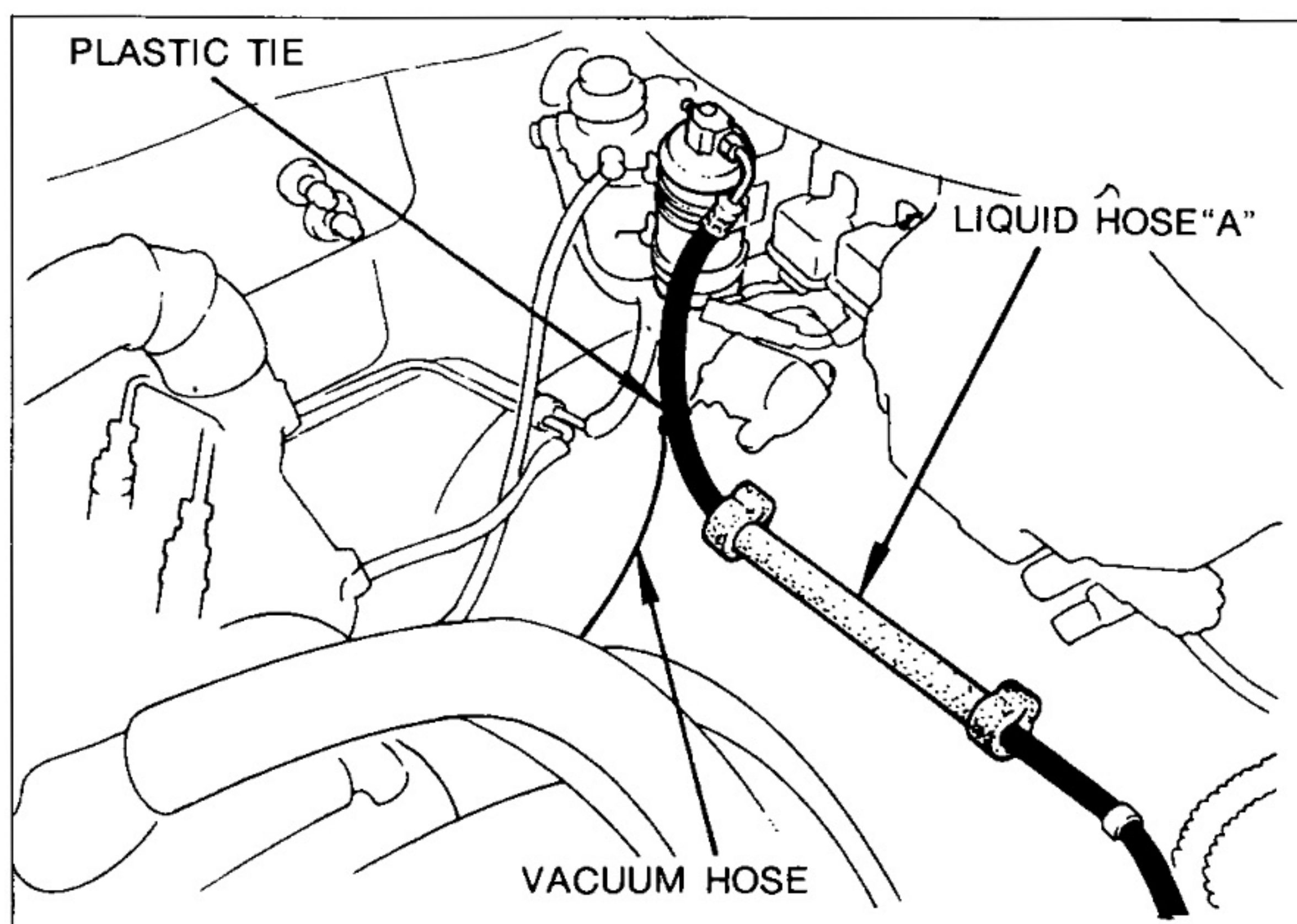


Fig.66

- (b) Fasten the vacuum hose to the liquid hose "A" using a plastic tie.

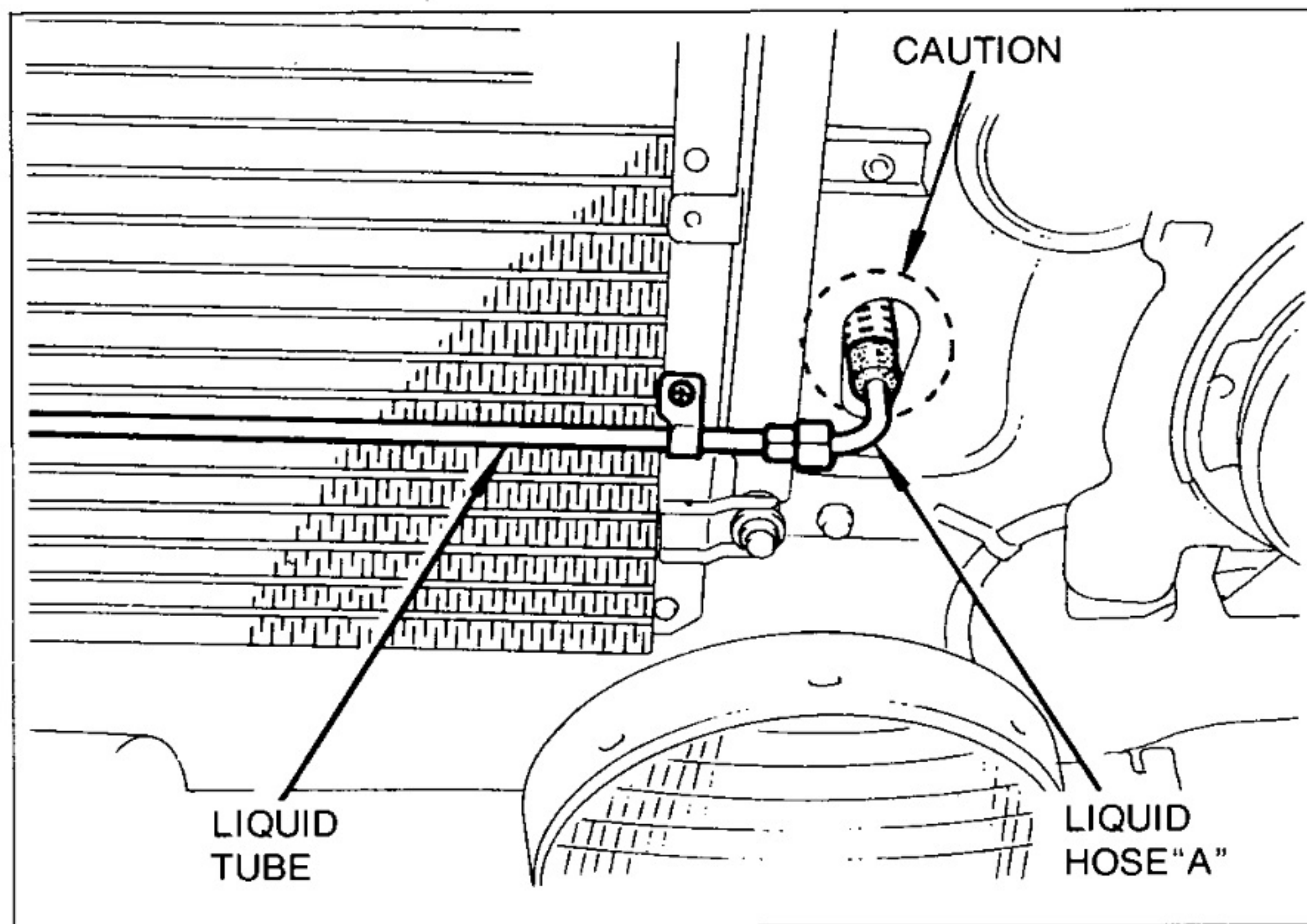


Fig.67

CAUTION

Make sure that the liquid hose does not foul on the radiator support panel.

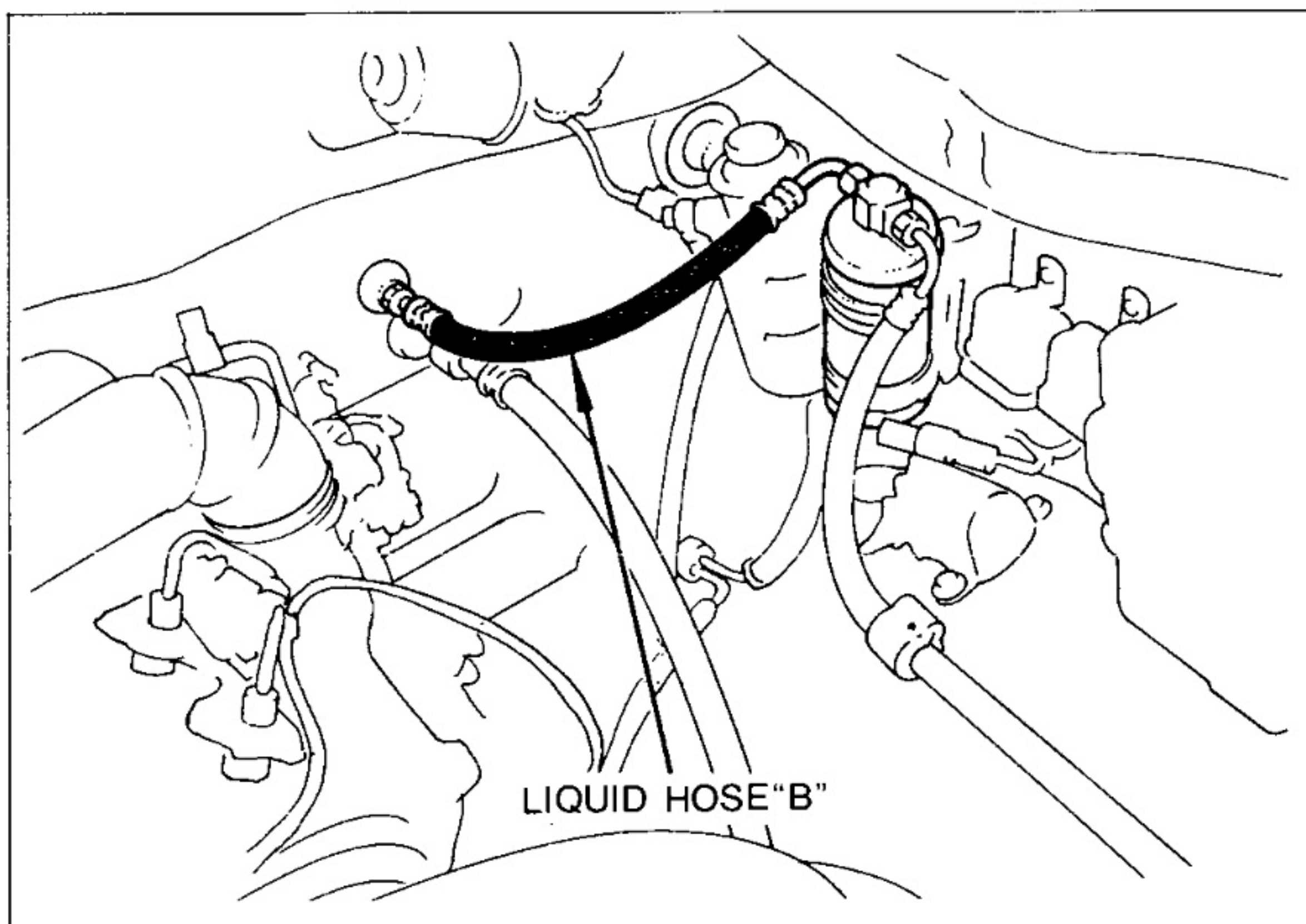


Fig.68

(4) LIQUID HOSE "B"

- (a) Connect the liquid hose "B" between the receiver outlet and the cooling unit inlet fitting.
- (b) After connecting the liquid hoses to the receiver drier, fully tighten the receiver fastening bolts.

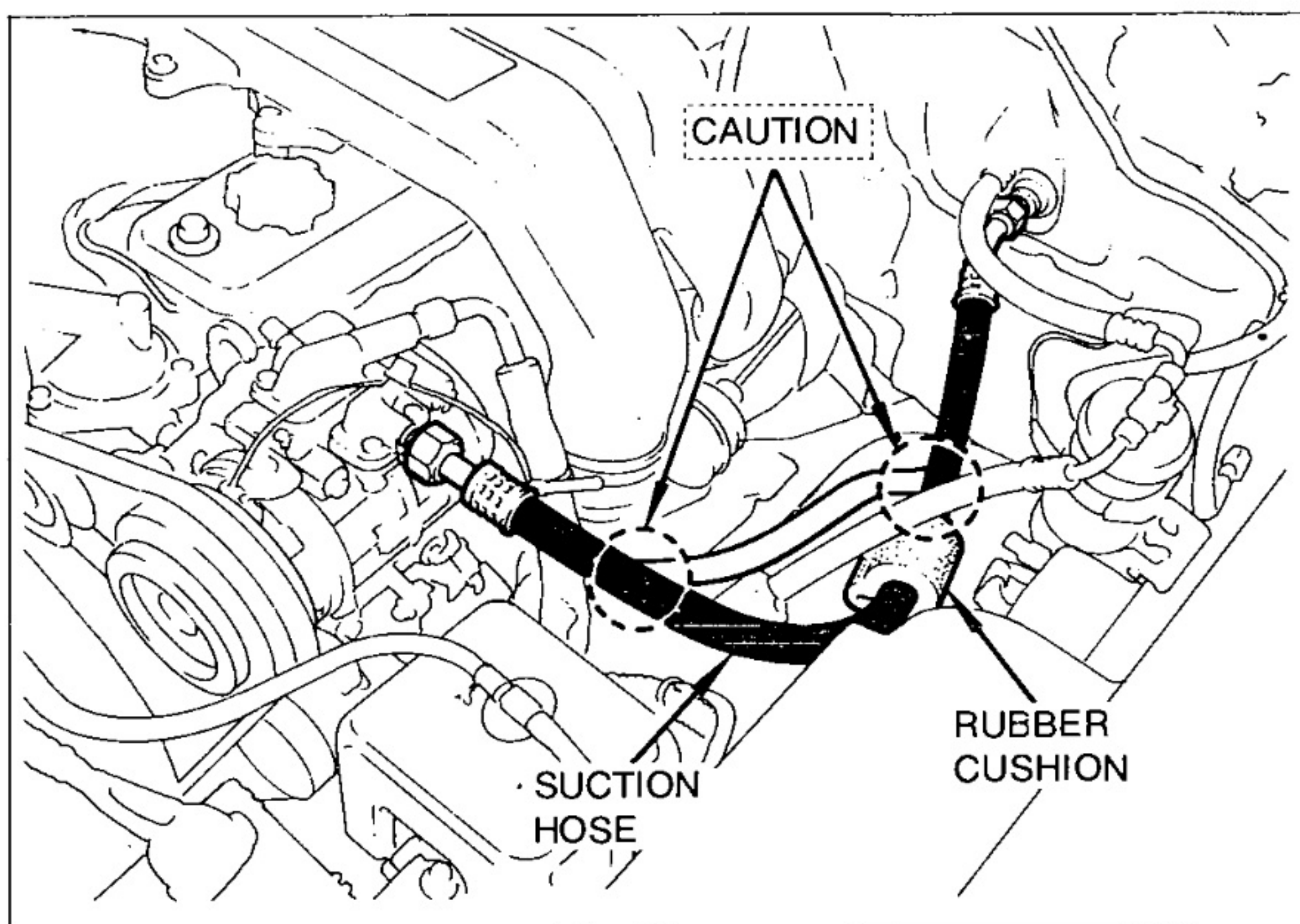


Fig.69

(5) SUCTION HOSE

- (a) Provide the suction hose with a rubber cushion before connecting it between the compressor and the cooling unit.

CAUTION

Make sure that there is at least 30mm clearance between the suction hose and the fuel hose.

1.7 ENGINE IDLE SPEED CONTROL DEVICE (HJ60 SERIES)

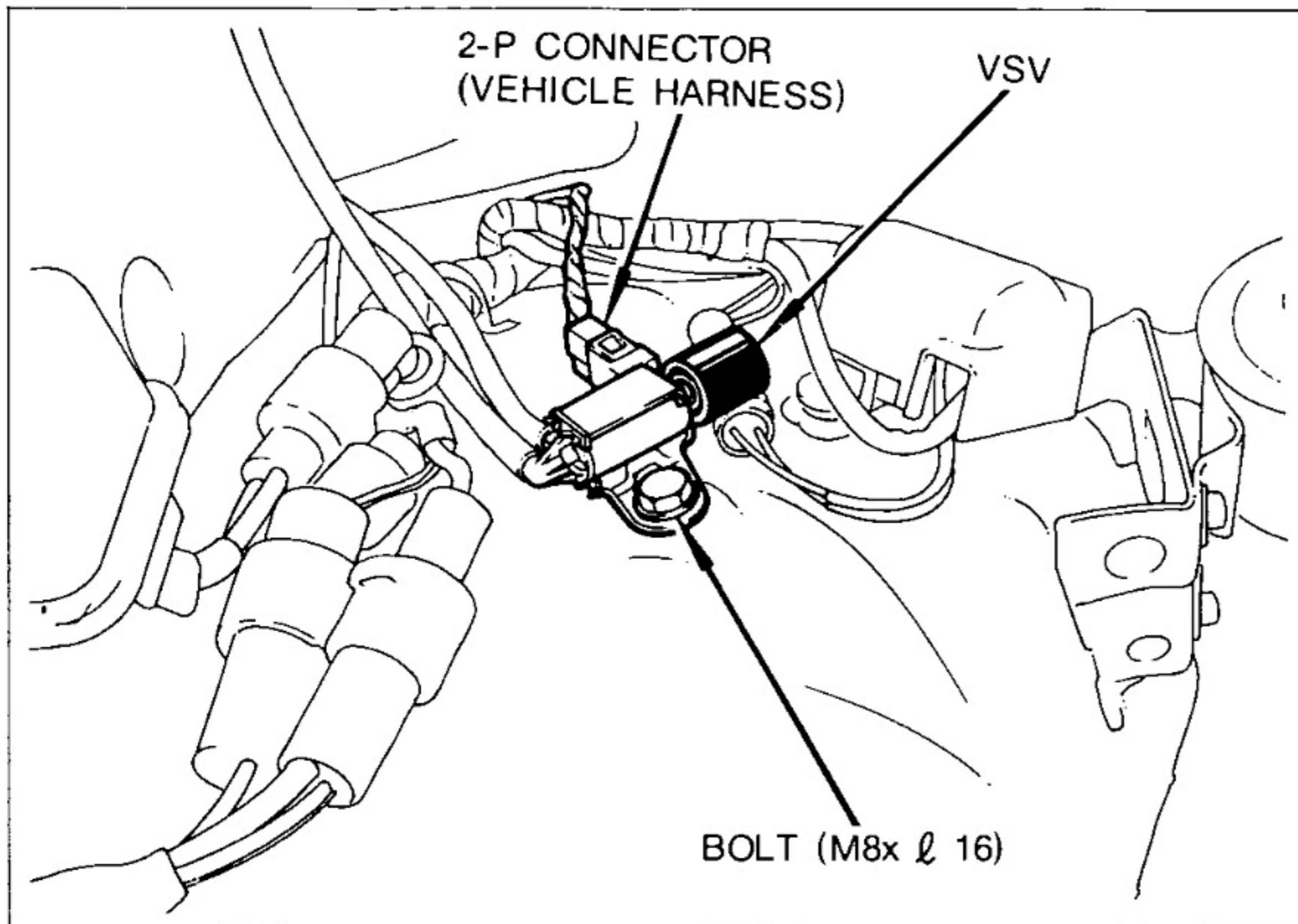


Fig.70

(1) V.S.V.

- (a) Install the V.S.V. onto the inner guard.
- (b) Connect the vehicle harness to the V.S.V.

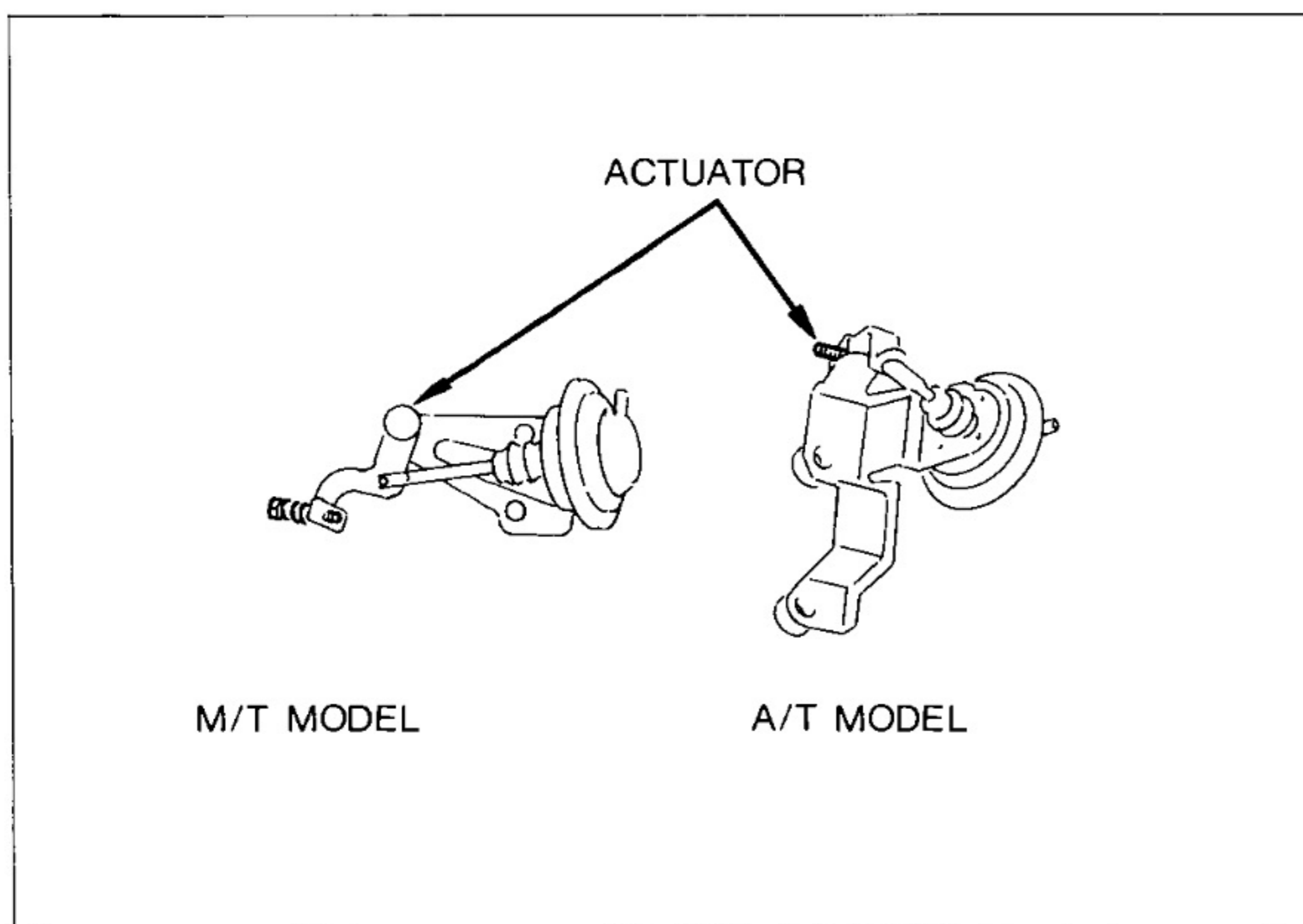


Fig.71

(2) ACTUATOR (M/T MODEL)

- (a) Remove the accelerator cable bracket and install the actuator together with the accelerator cable bracket. See Fig. 71 and Fig. 72.

(3) ACTUATOR (A/T MODEL)

- (a) Install the actuator to the bracket of the injection pump. See Fig. 71 and Fig. 73.

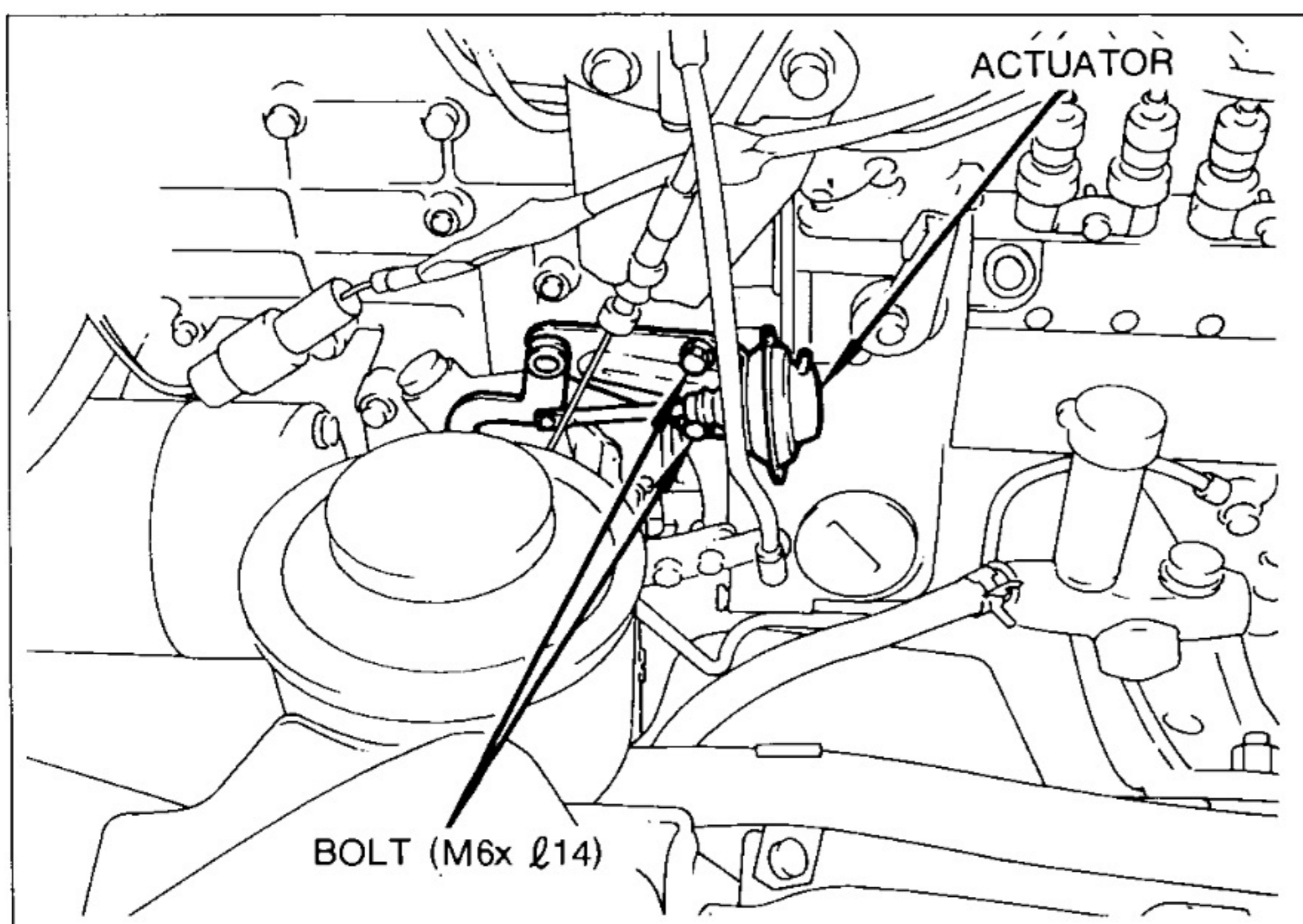


Fig.72

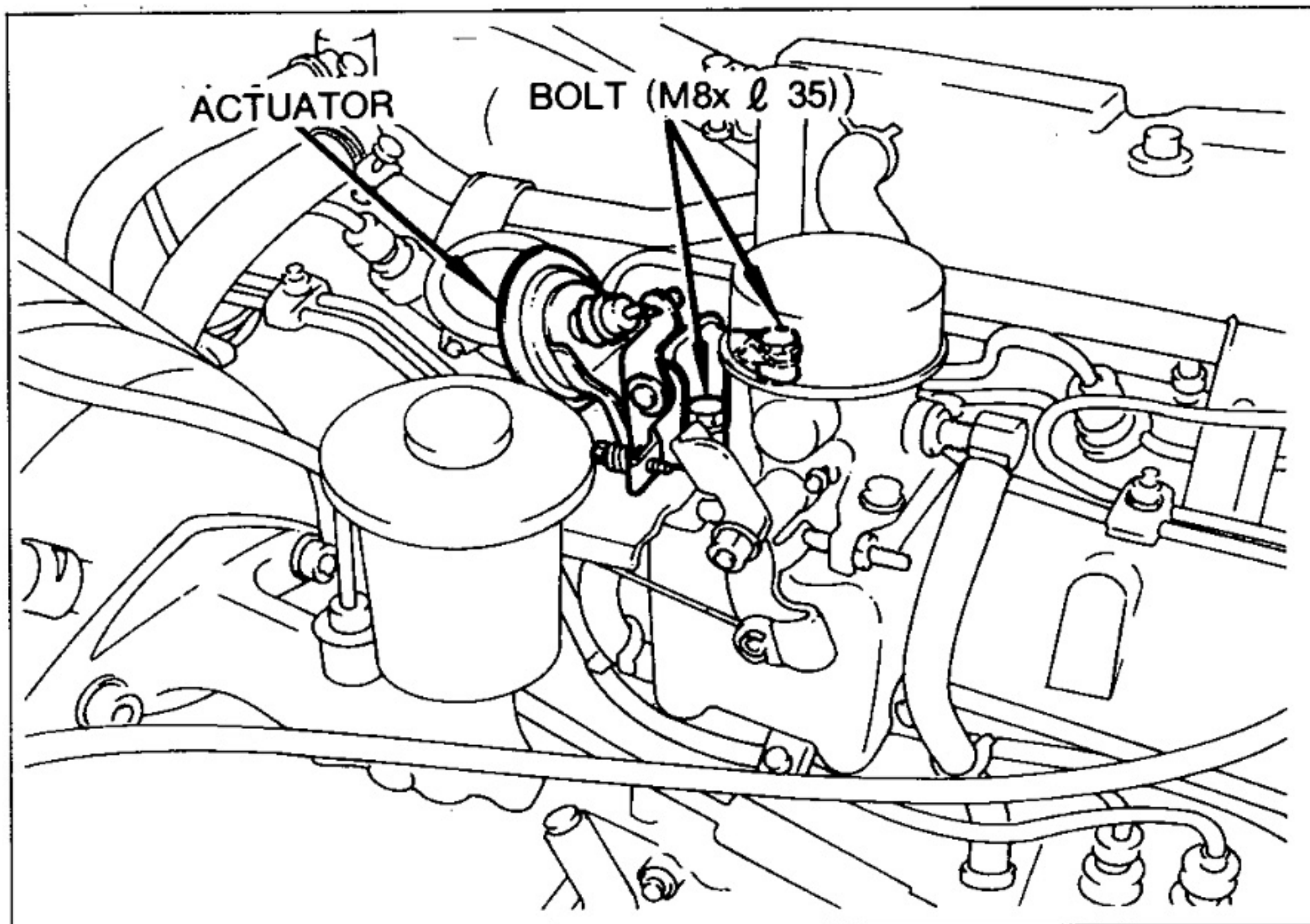


Fig.73

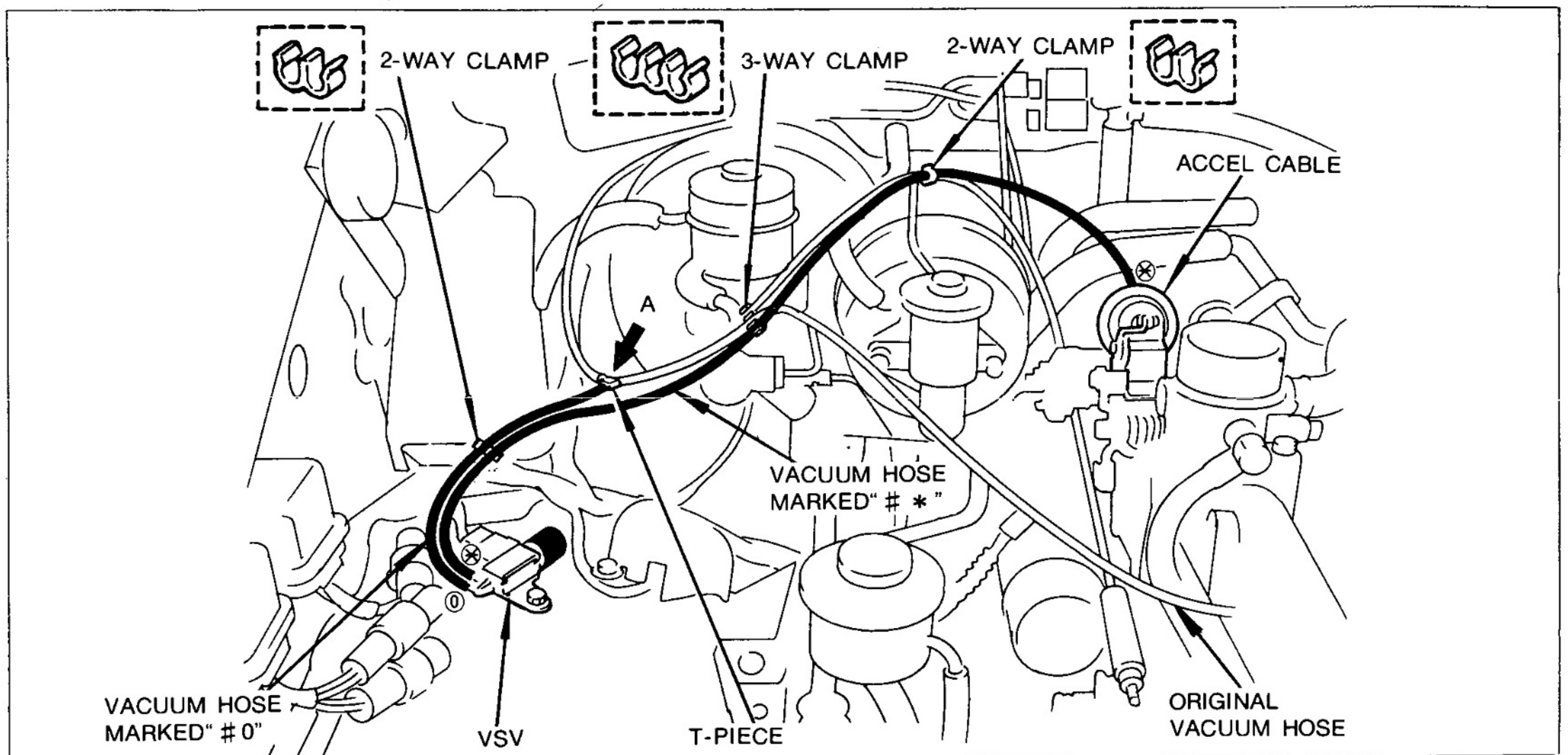


Fig.74

(4) VACUUM HOSE (M/T MODEL WITH 4 x 2 SELECTOR ELECTRICAL TYPE)

- (a) Cut the original vacuum hose at "A" as shown in Fig. 74.
- (b) Cut the vacuum hose marked "#0" to 220mm long.
- (c) Connect the original vacuum hose and vacuum hose marked "#0" using a T-piece as shown in Fig. 74.
- (d) Connect the vacuum hose marked "#*" from the V.S.V. to the actuator.
- (e) Fasten the vacuum hose using the three clamps as shown in Fig. 74.

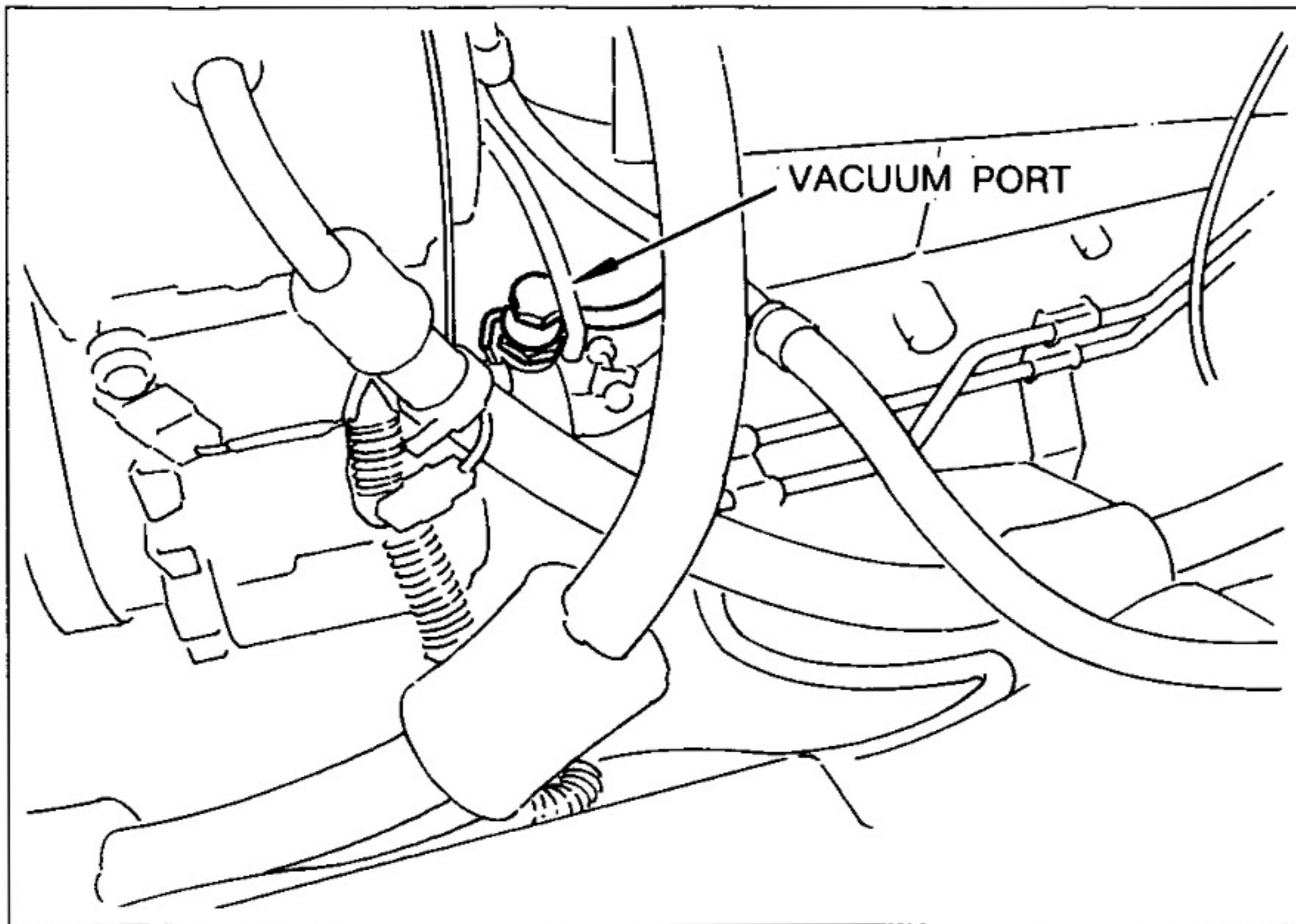


Fig.75

(5) VACUUM HOSE (M/T MODEL WITH 4 × 2 SELECTOR MECHANICAL TYPE)

- (a) Replace the vacuum port with the new one provided.

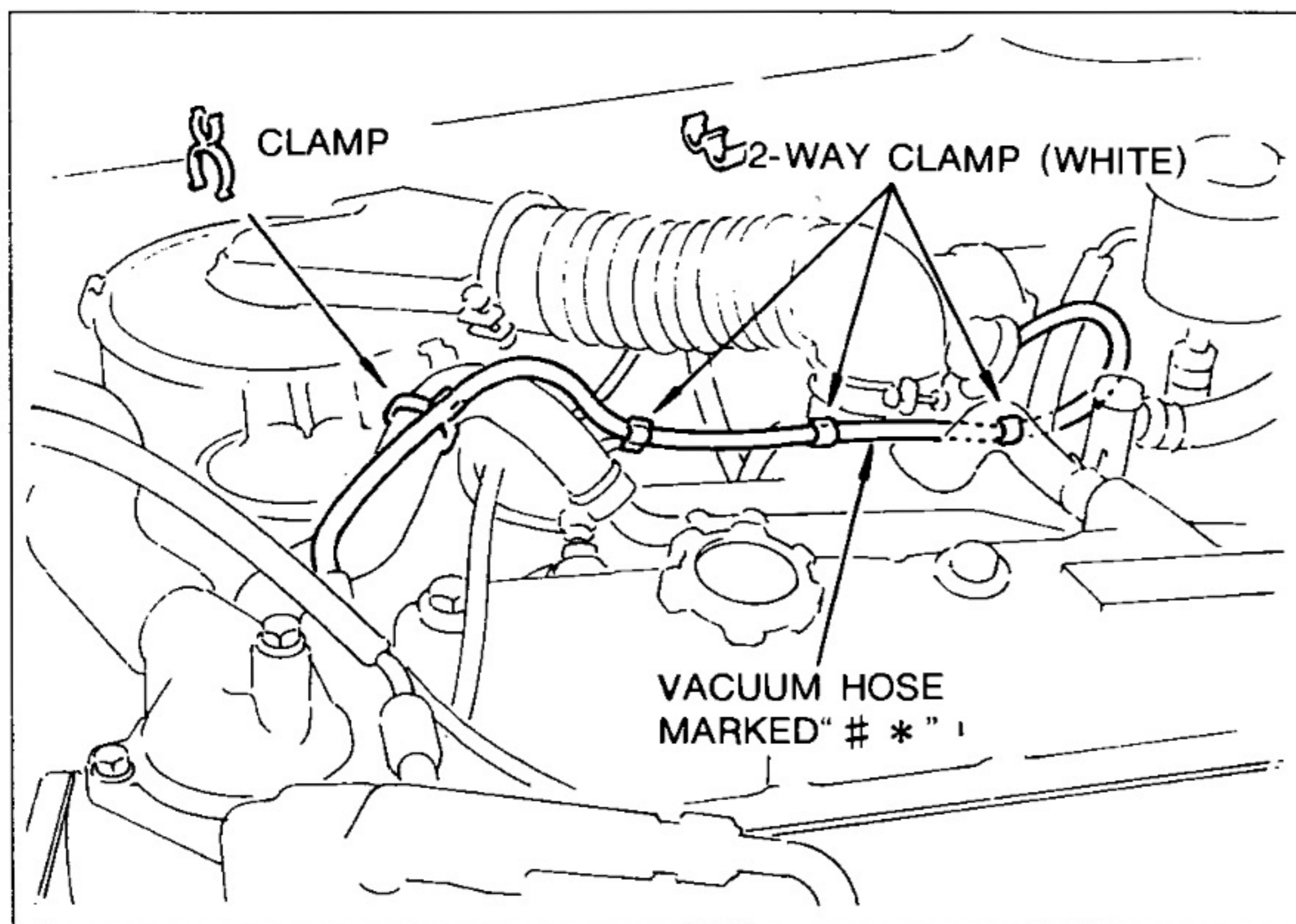


Fig.76

- (b) Connect the vacuum hose marked "#*" from the V.S.V. to the actuator.
- (c) Connect the vacuum hose marked "#0" from the V.S.V. to the port of the vacuum port.
- (d) Fasten the vacuum hose using the eight clamps as shown in Fig. 76, Fig. 77 and Fig. 78.

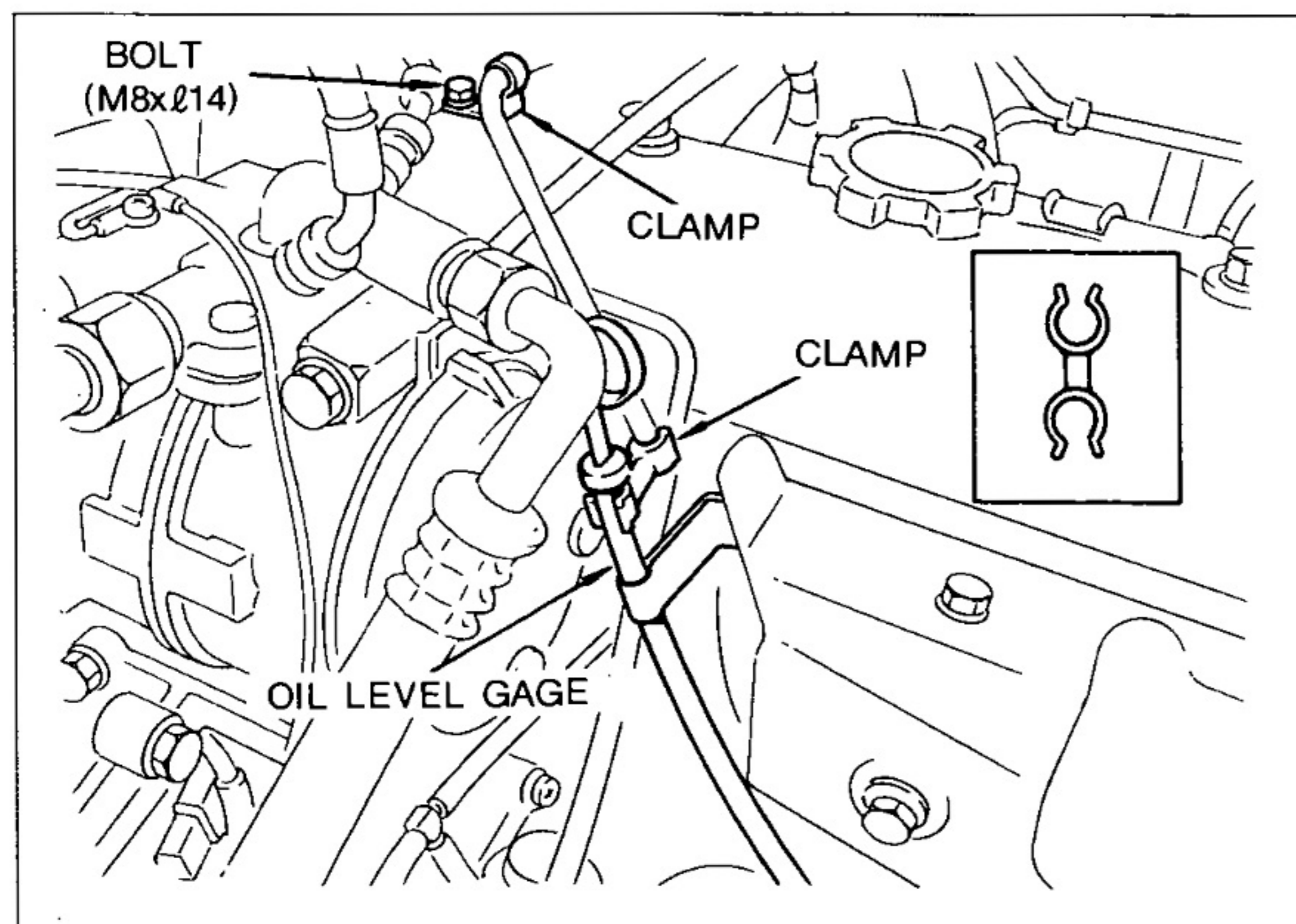


Fig.77

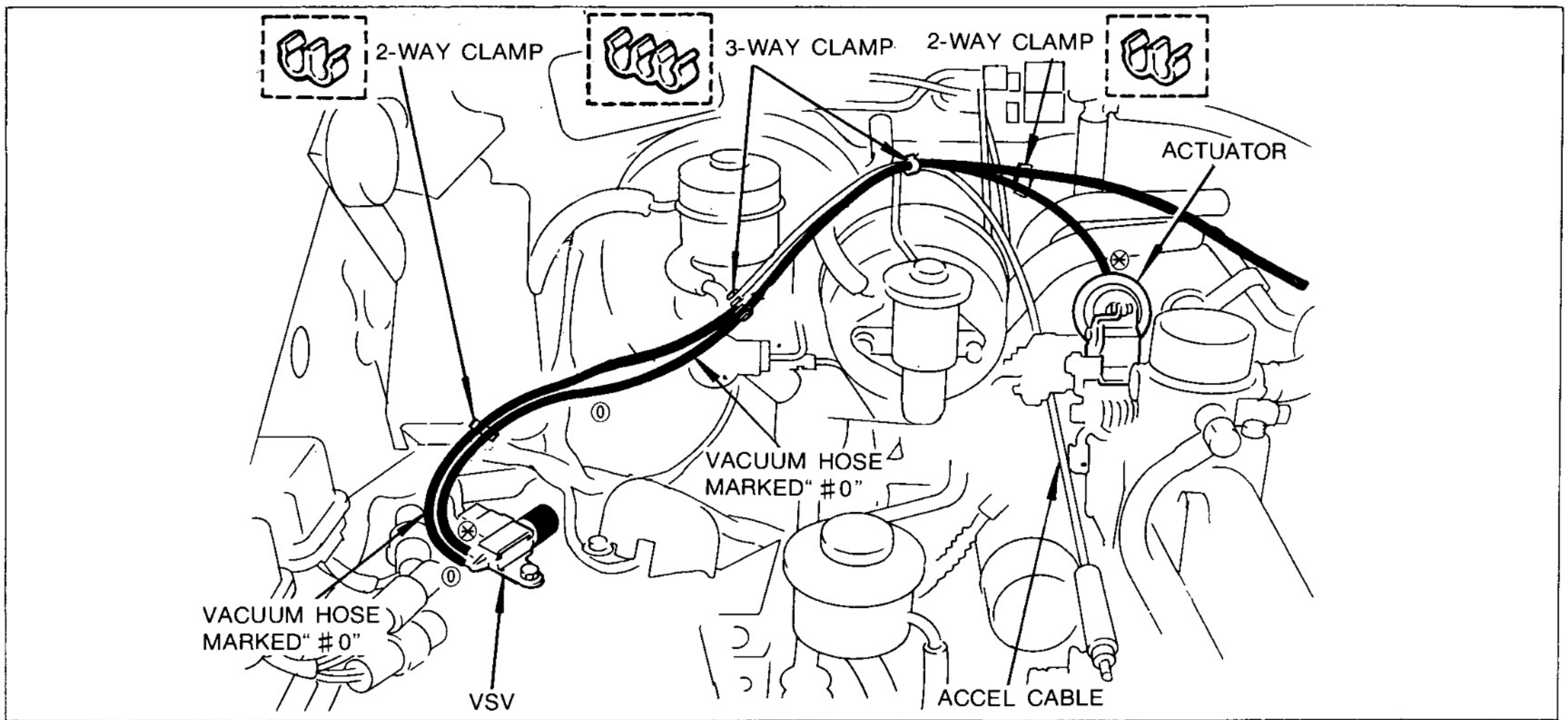


Fig.78

(6) VACUUM HOSE (A/T MODEL WITH 4 × 2 SELECTOR ELECTRICAL TYPE)

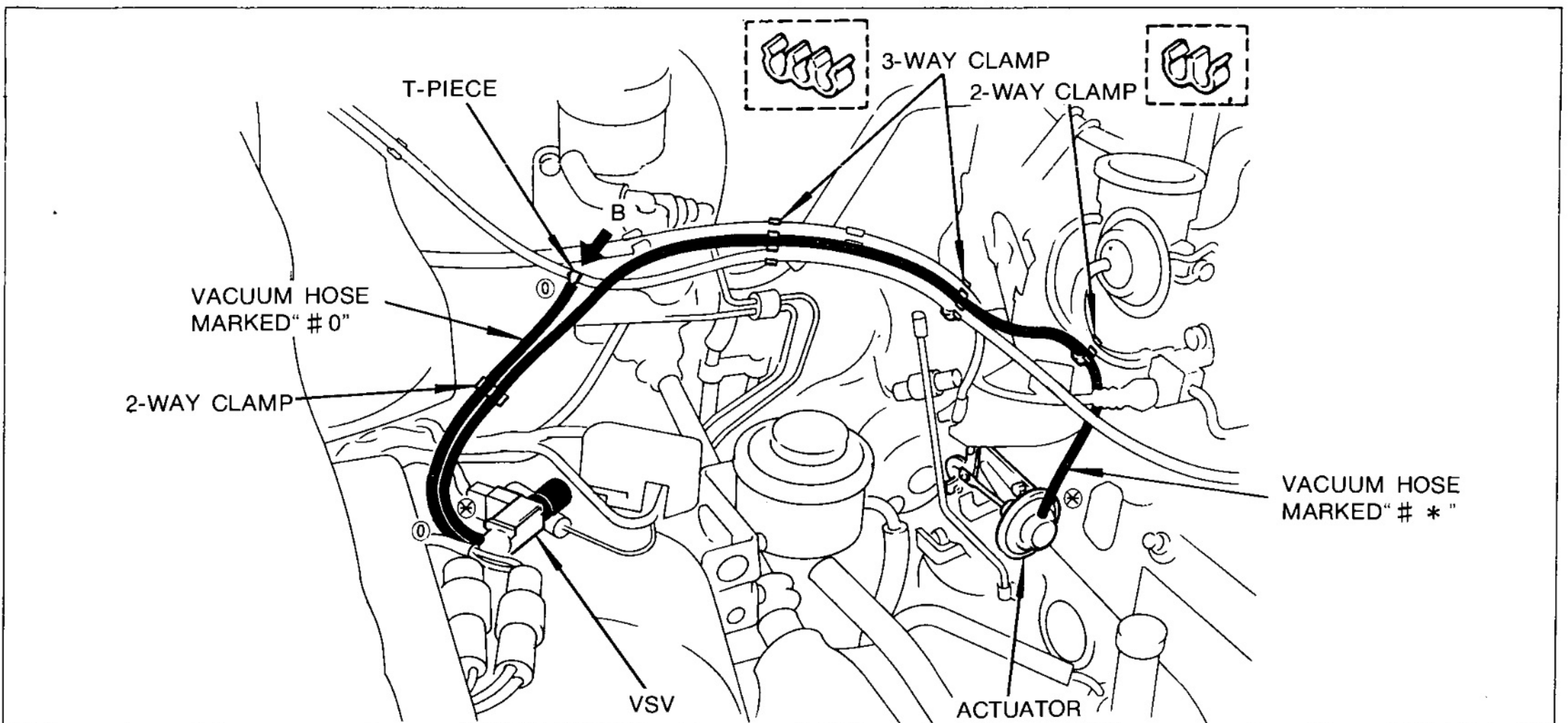


Fig.79

- (a) Cut the original vacuum hose at "B" as shown in Fig. 79.
- (b) Cut the vacuum hose marked "#0" to 220mm long.
- (c) Connect the original vacuum hose and vacuum hose marked "#0" using a T-piece as shown in Fig. 79.
- (d) Connect the vacuum hose marked "#*" from the V.S.V. to the actuator.
- (e) Fasten the vacuum hose using the four clamps as shown in Fig. 79.

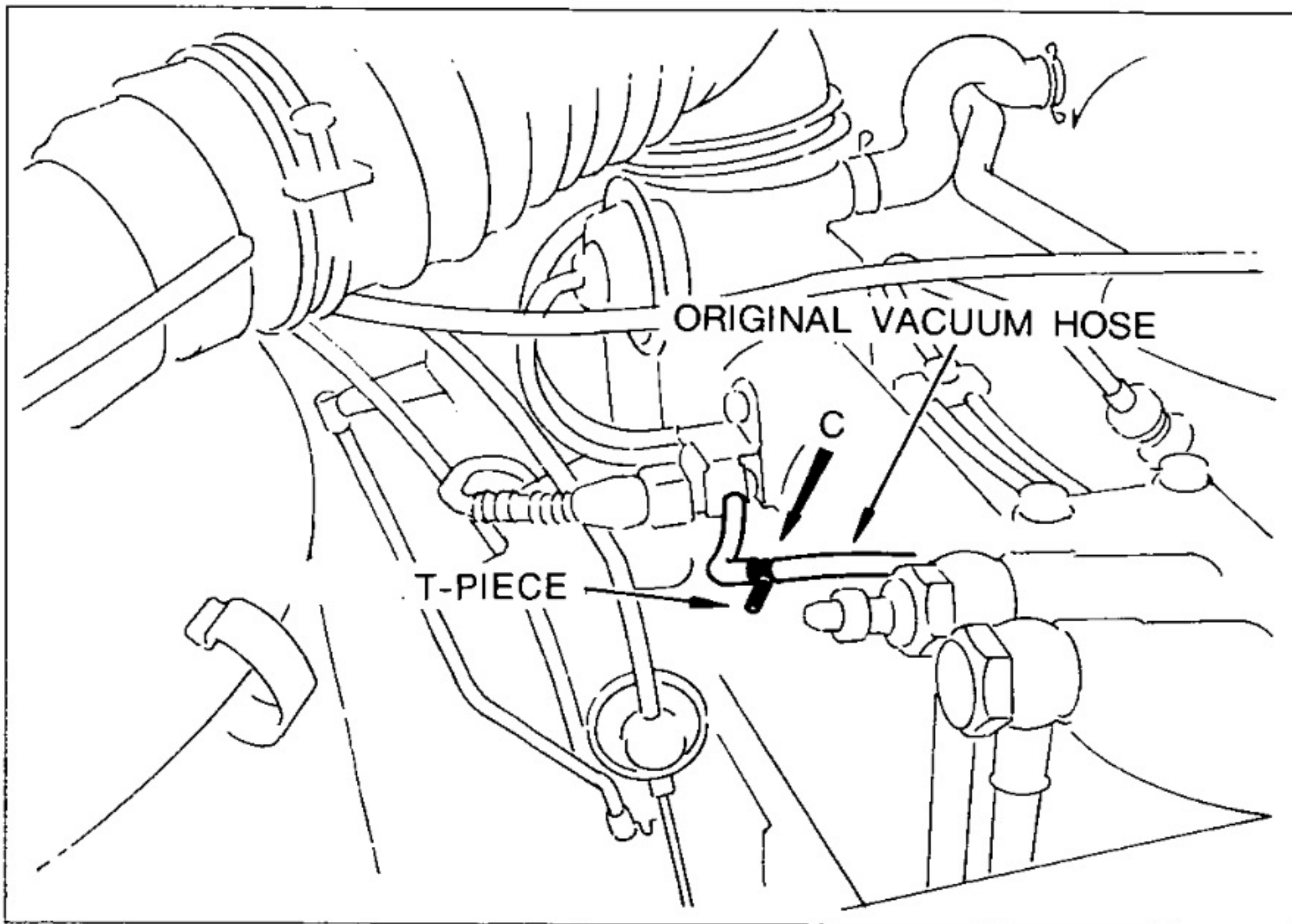


Fig.80

(7) VACUUM HOSE (A/T MODEL WITH 4 × 2 SELECTOR MECHANICAL TYPE)

- (a) Cut the original vacuum hose at "C".
- (b) Connect the original vacuum hose using a T-piece as shown.

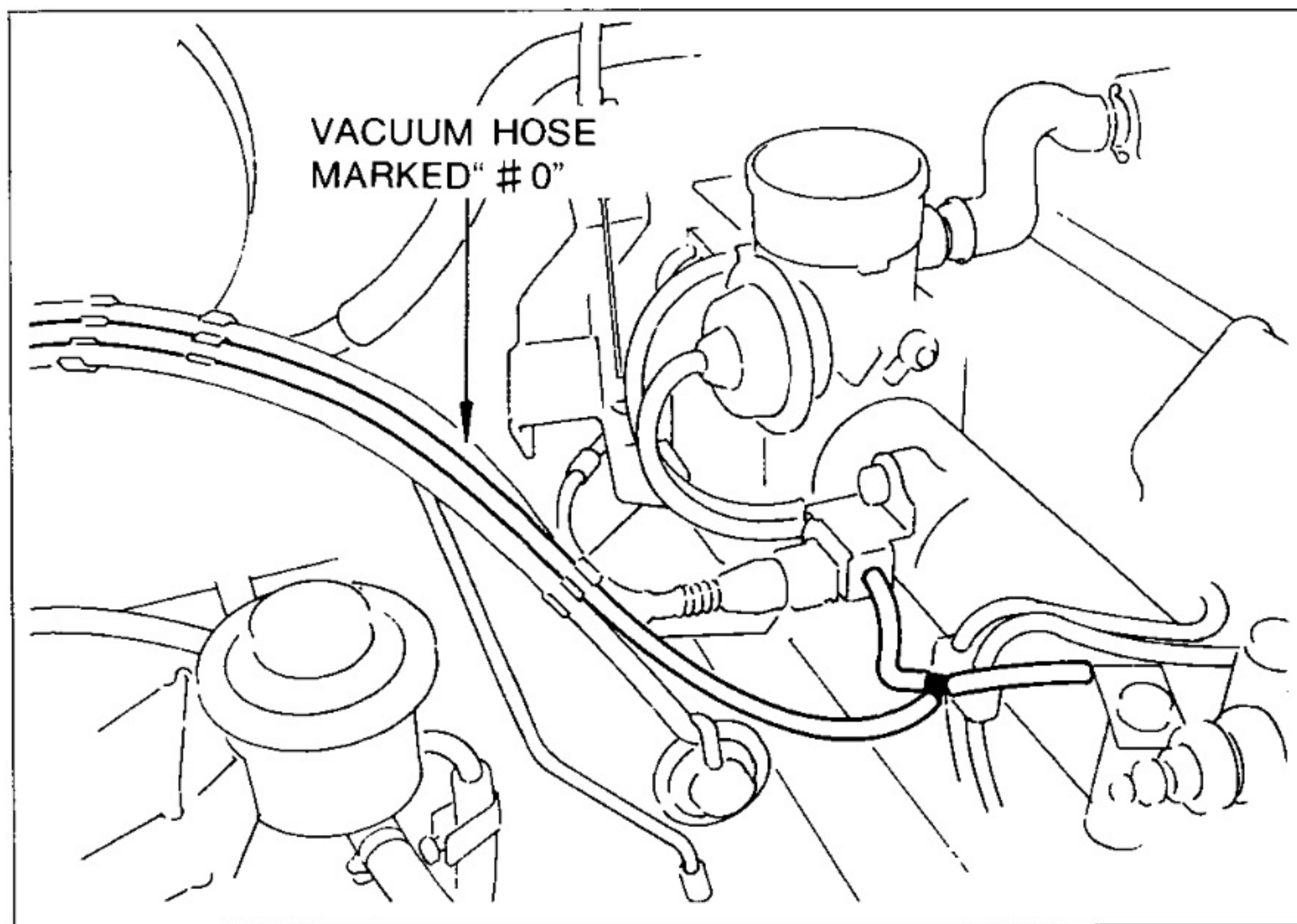


Fig.81

- (c) Cut the vacuum hose marked "#0" to 700mm long.
- (d) Connect the vacuum hose marked "#0" from a port of the T-piece to the V.S.V.
- (e) Connect the vacuum hose marked "#*" from the actuator to the V.S.V.
- (f) Fasten the vacuum hose using the four clamps as shown in Fig. 81.

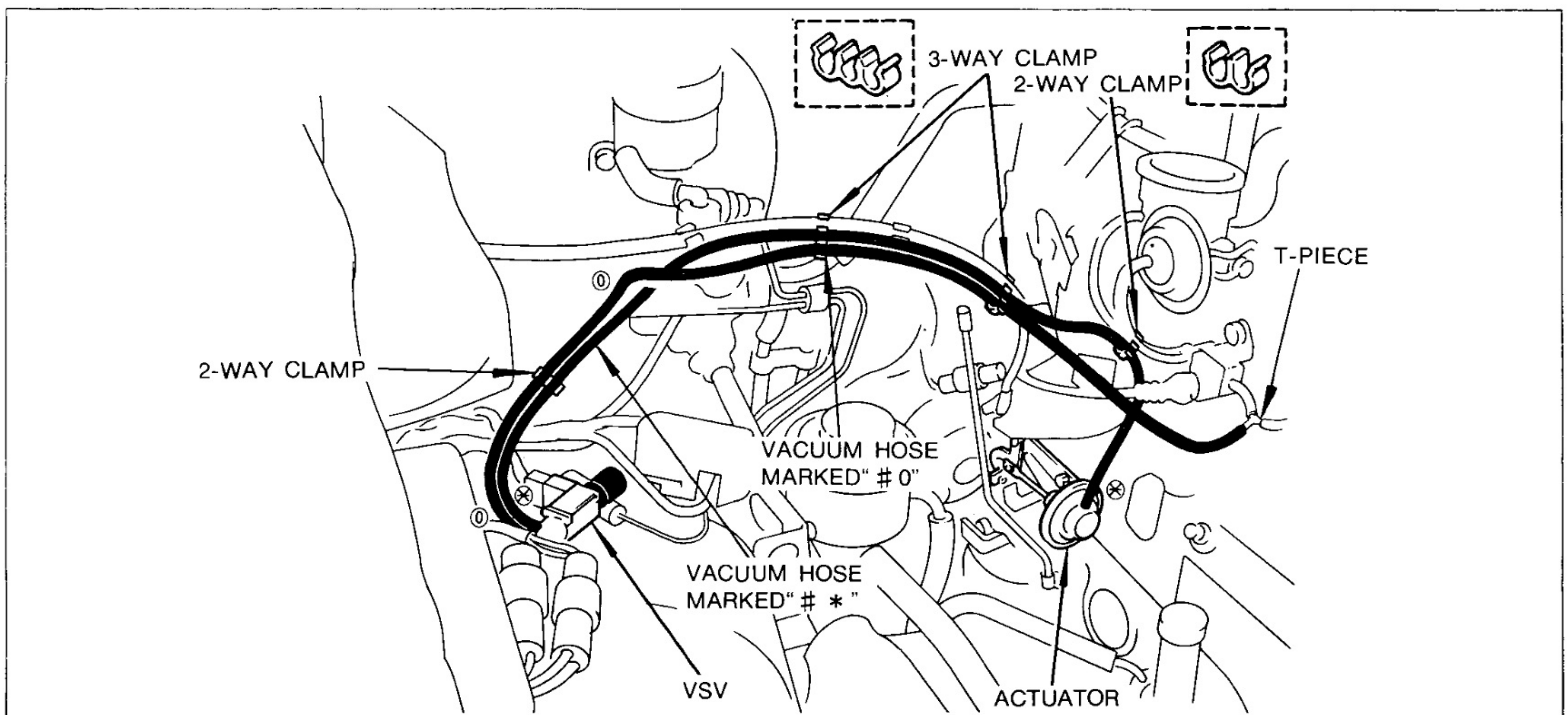


Fig.82

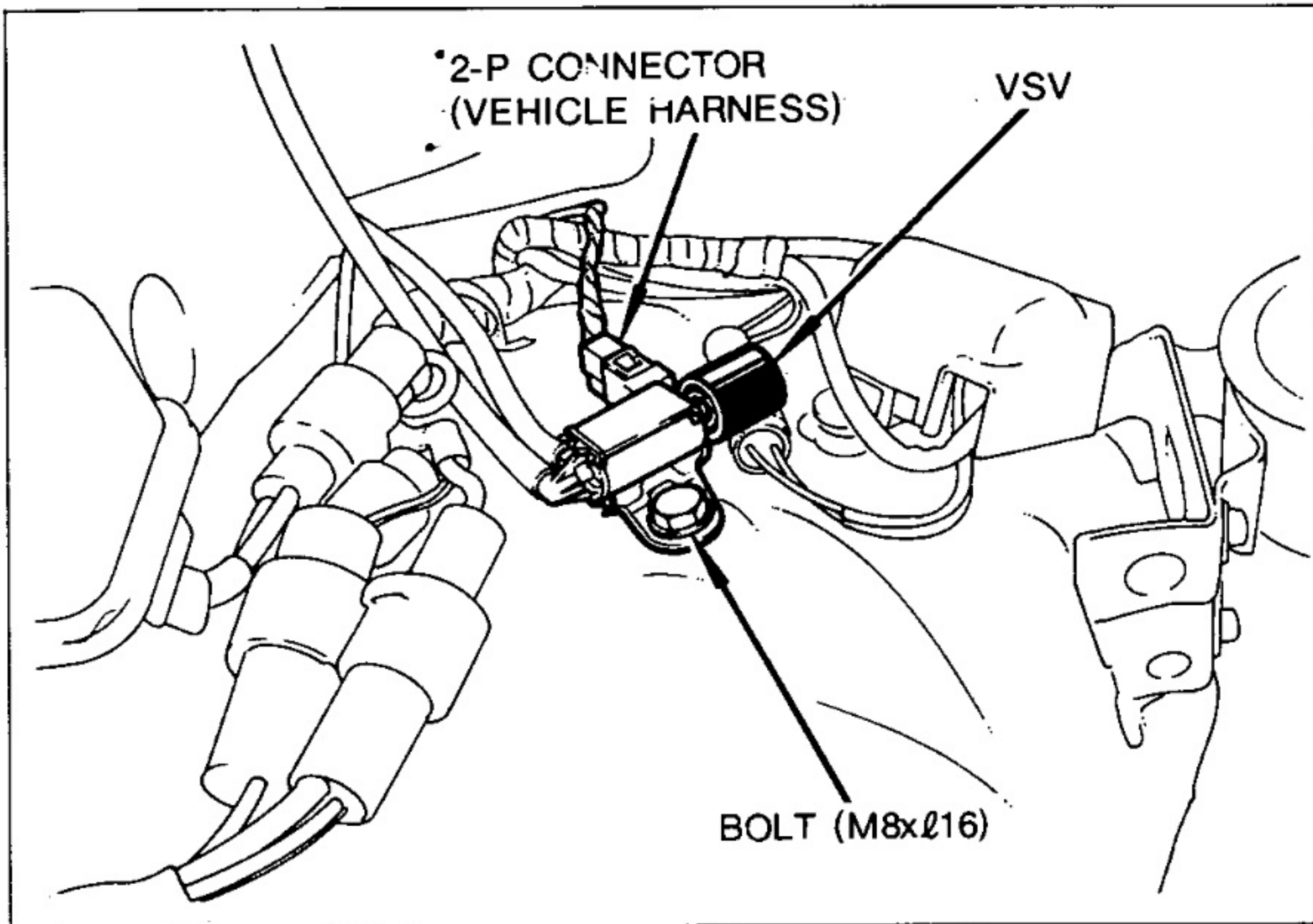


Fig.83

1.8 ENGINE IDLE SPEED CONTROL DEVICE (HJ61 SERIES)

(1) V.S.V.

- (a) Install the V.S.V. onto the inner guard.
- (b) Connect the vehicle harness to the V.S.V.

(2) VACUUM HOSES

- (a) Remove the caps from both the check valve and the 4-way joint.
- (b) Connect the vacuum hose "#*" to the check valve and the vacuum hose "#0" to the 4-way joint.
- (c) Fasten the vacuum hoses together using three clamps.

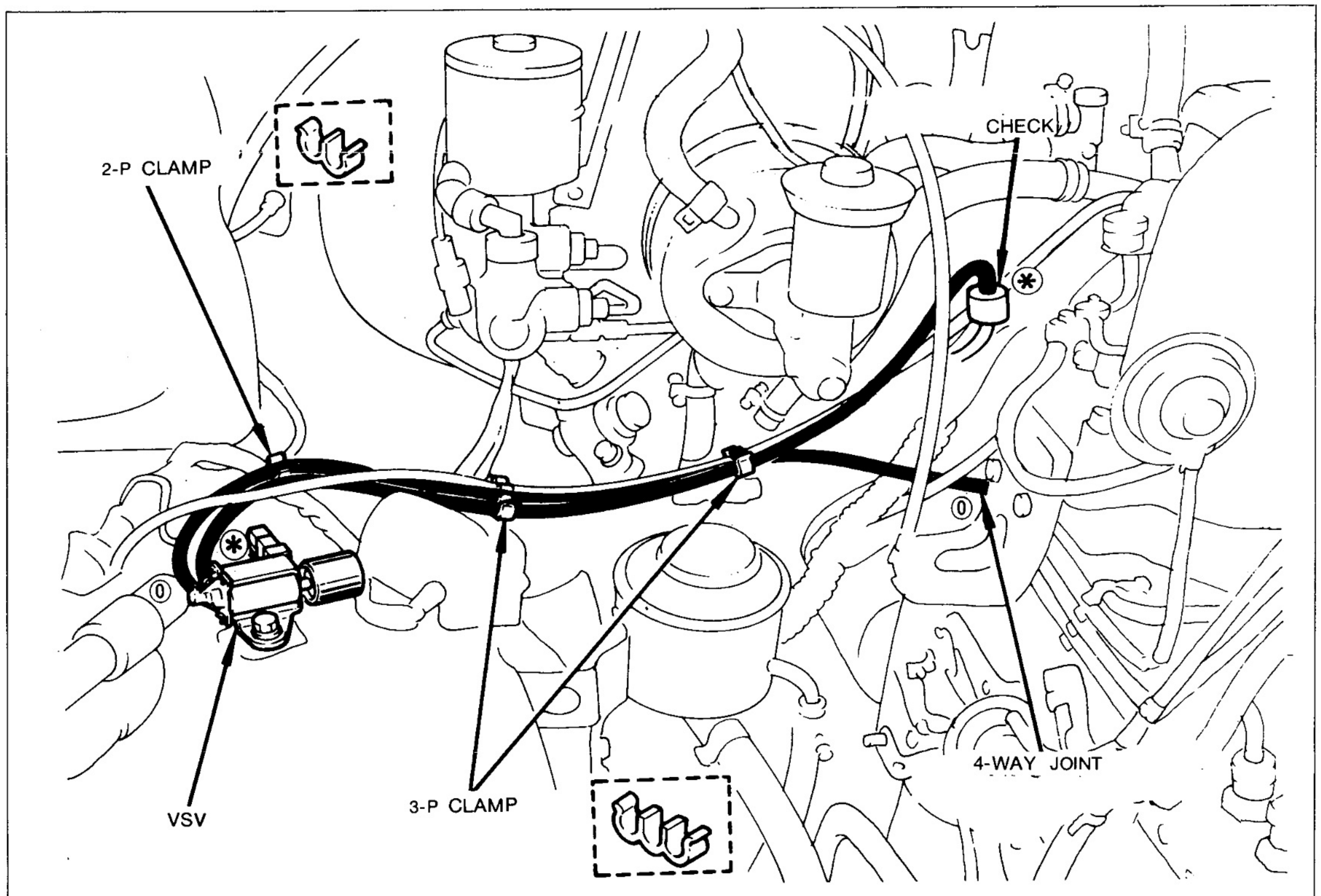


Fig.84

2. FINISH

(1) GENERAL

- (a) Check all components for correct installation and then charge the system with refrigerant.

Standard amount of refrigerant: 0.7 kg (1.55 lbs)

CAUTION

DO NOT OPERATE THE COMPRESSOR BEFORE THE SYSTEM HAS BEEN CHARGED WITH REFRIGERANT.

- (b) Re-install all parts which have been temporarily removed.

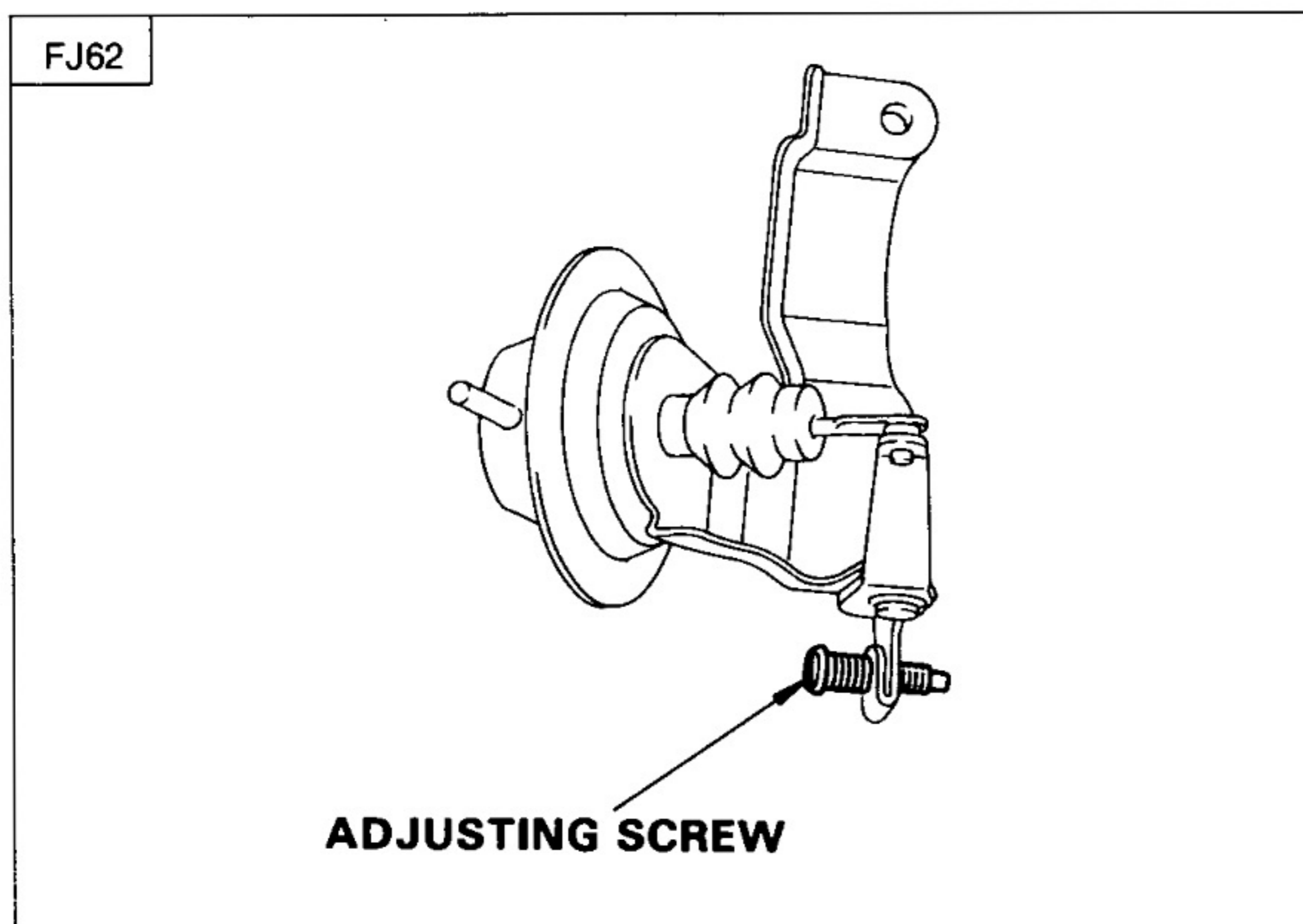


Fig.85

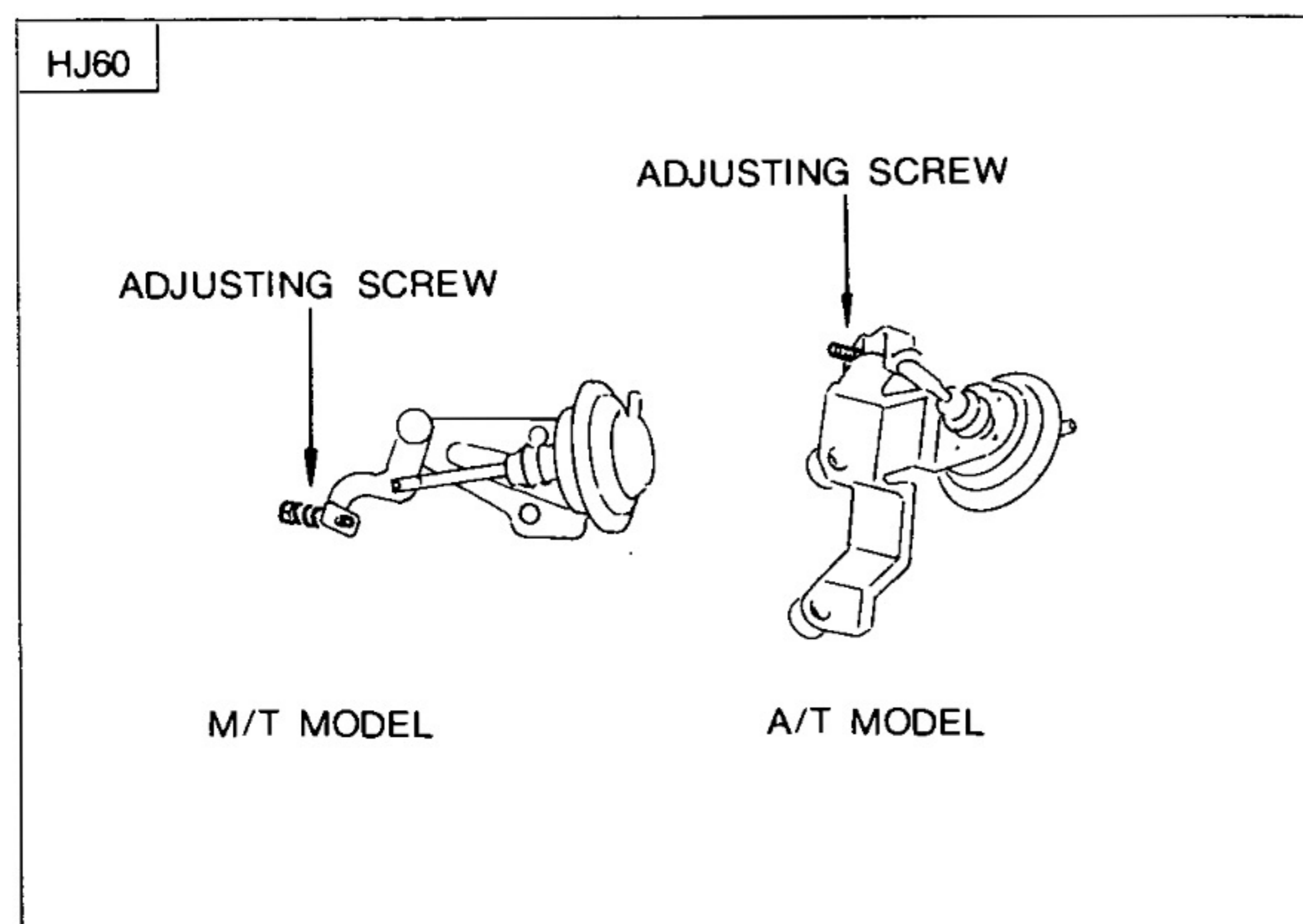


Fig.86

(2) ADJUSTMENT OF ENGINE IDLE SPEED

- (a) Run the engine until normal operating temperature is reached.
- (b) With the air conditioner switched off, check the idle speed and, if necessary, adjust as described in the vehicle repair manual.
- (c) Turn the air conditioner on and re-check the idle speed.

NOTE

When the idle speed is rechecked the compressor must be operating.

Under these conditions, the idle speed should be:

FJ62, HJ60, 61 (M/6 MODEL) 950 ± 50 RPM

HJ60, 61 (A/T MODEL) 800 ± 50 RPM

If necessary, adjust using the adjusting screw.

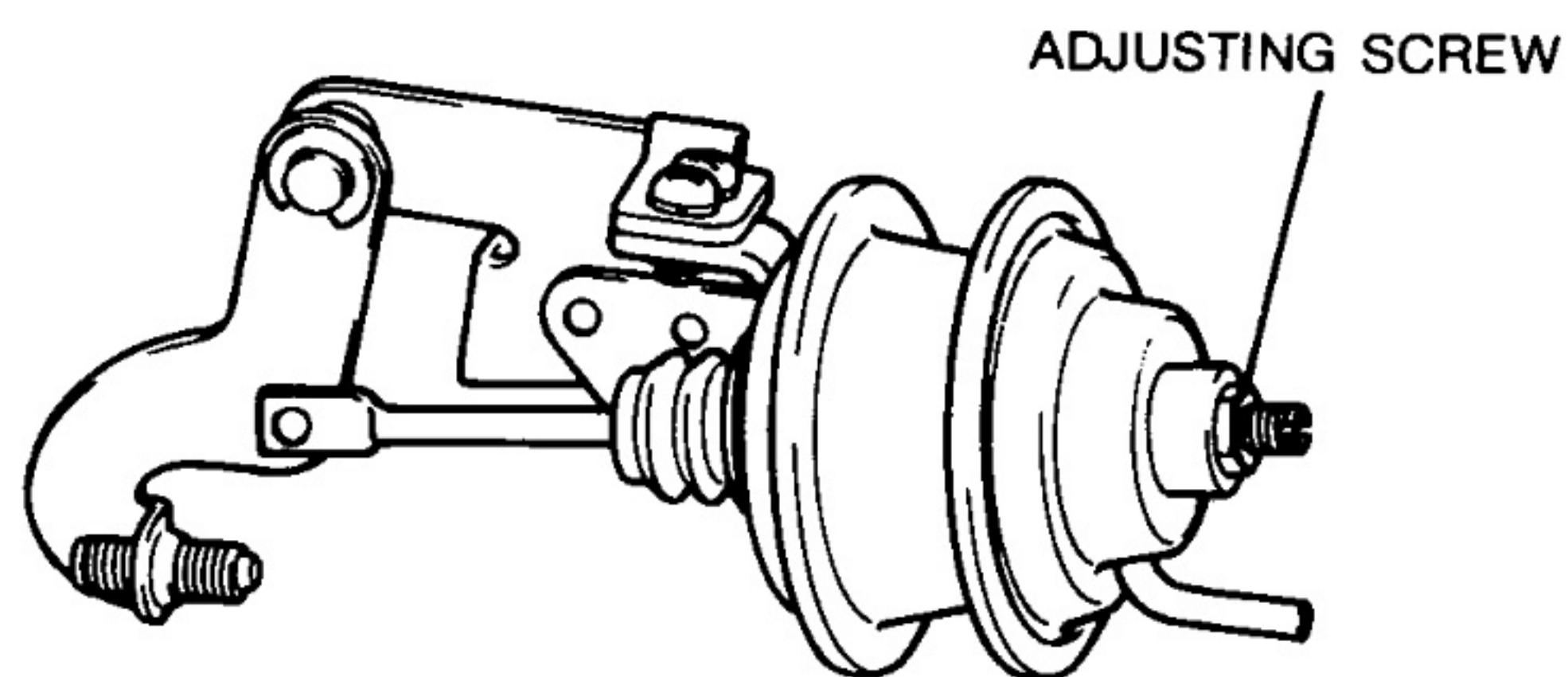


Fig.87

(3) COMPRESSOR DRIVE BELT ADJUSTMENT

- (a) Operate the air conditioner for at least five minutes, check the compressor drive belt tension and, if necessary, adjust as described earlier.

(4) FINAL INSPECTION

Check if:

- (a) All heater and air conditioner controls operate correctly.
- (b) All vehicle functions operate correctly.
- (c) Any abnormal noises are heard when the air conditioner is operating.

NOW THE AIR CONDITIONER IS READY FOR USE BE SURE TO EXPLAIN ITS OPERATION AND MAINTENANCE SCHEDULE TO THE OWNER.

