

***LANDCRUISER PRADO
A/C AIR MIX DOOR***

DENSO INTERNATIONAL AUSTRALIA PTY LTD

MAC-A458

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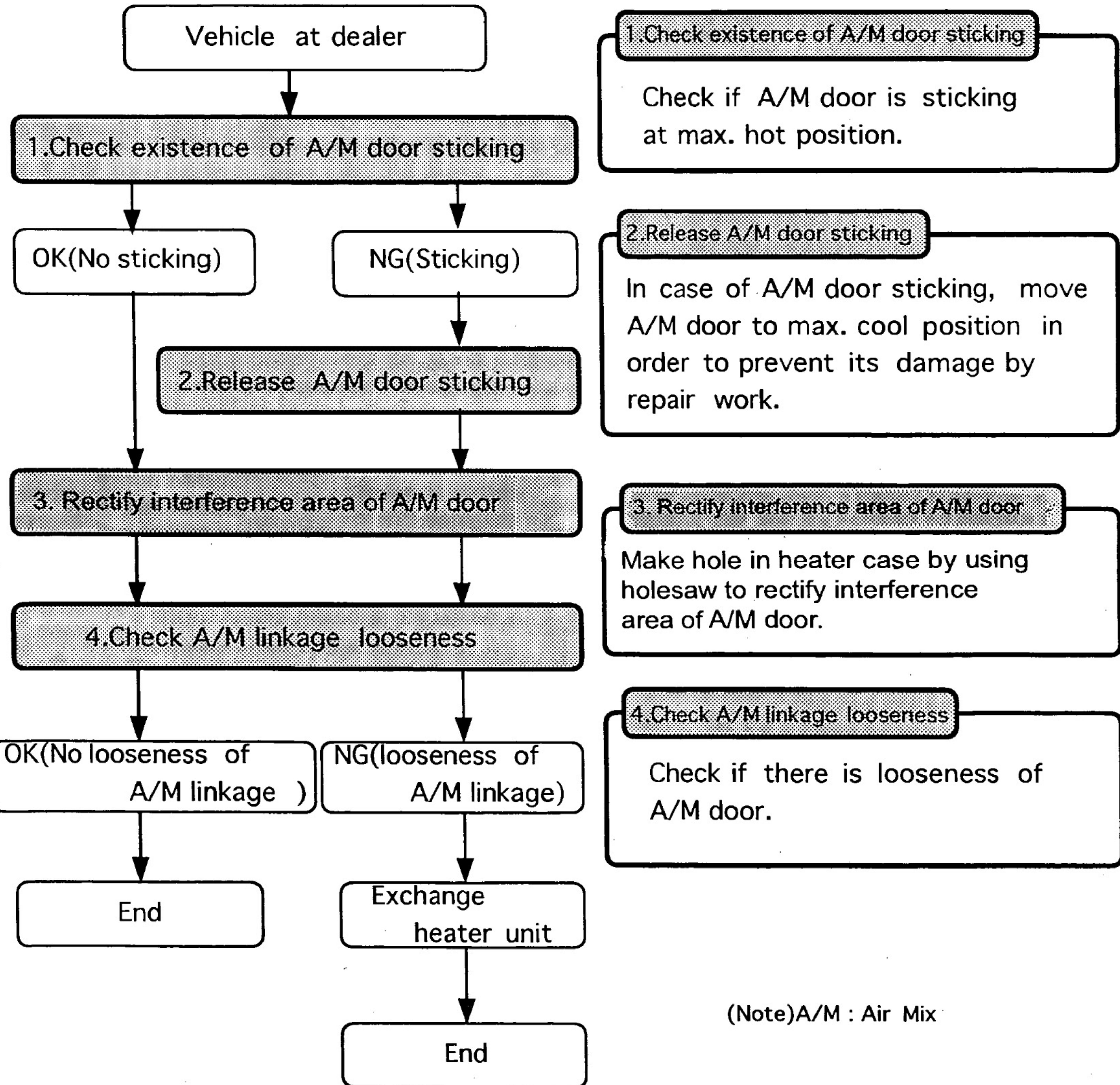
■ FORWARD

This manual has been published to explain how to repair LANDCRUISER Prado A/C Air Mix Door sticking failure only. Therefore for general cautions and inspections for A/C, please refer to relevant section of vehicle repair manual.

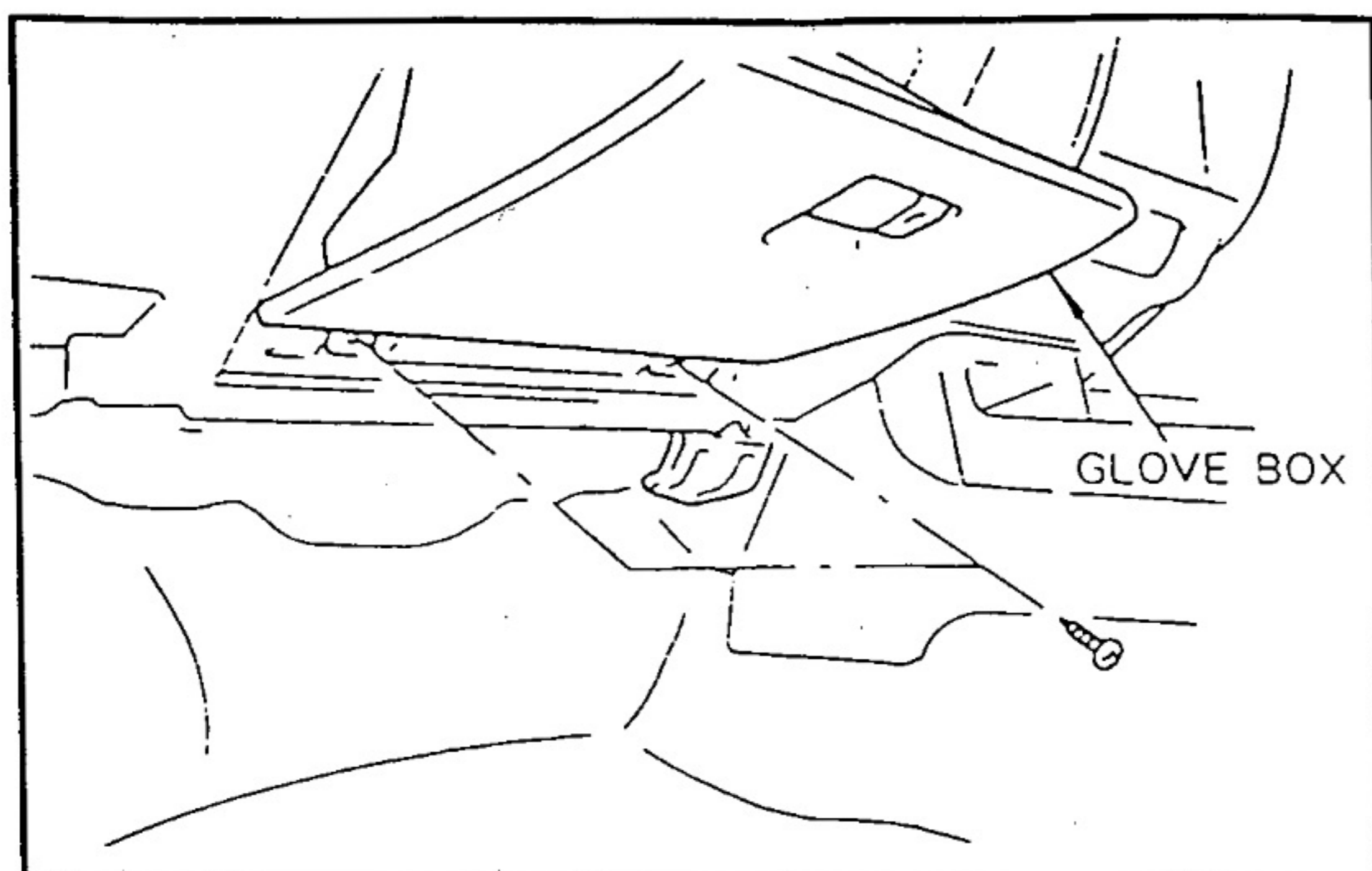
■ F/FIX kit no.: 87200-60350

■ Tool : general tool, hand held electric drill, ϕ 2.5mm drill bit , ϕ 18mm hole saw, hair dryer, vacuum cleaner, round file, sand paper.

■ WORK PROCEDURE

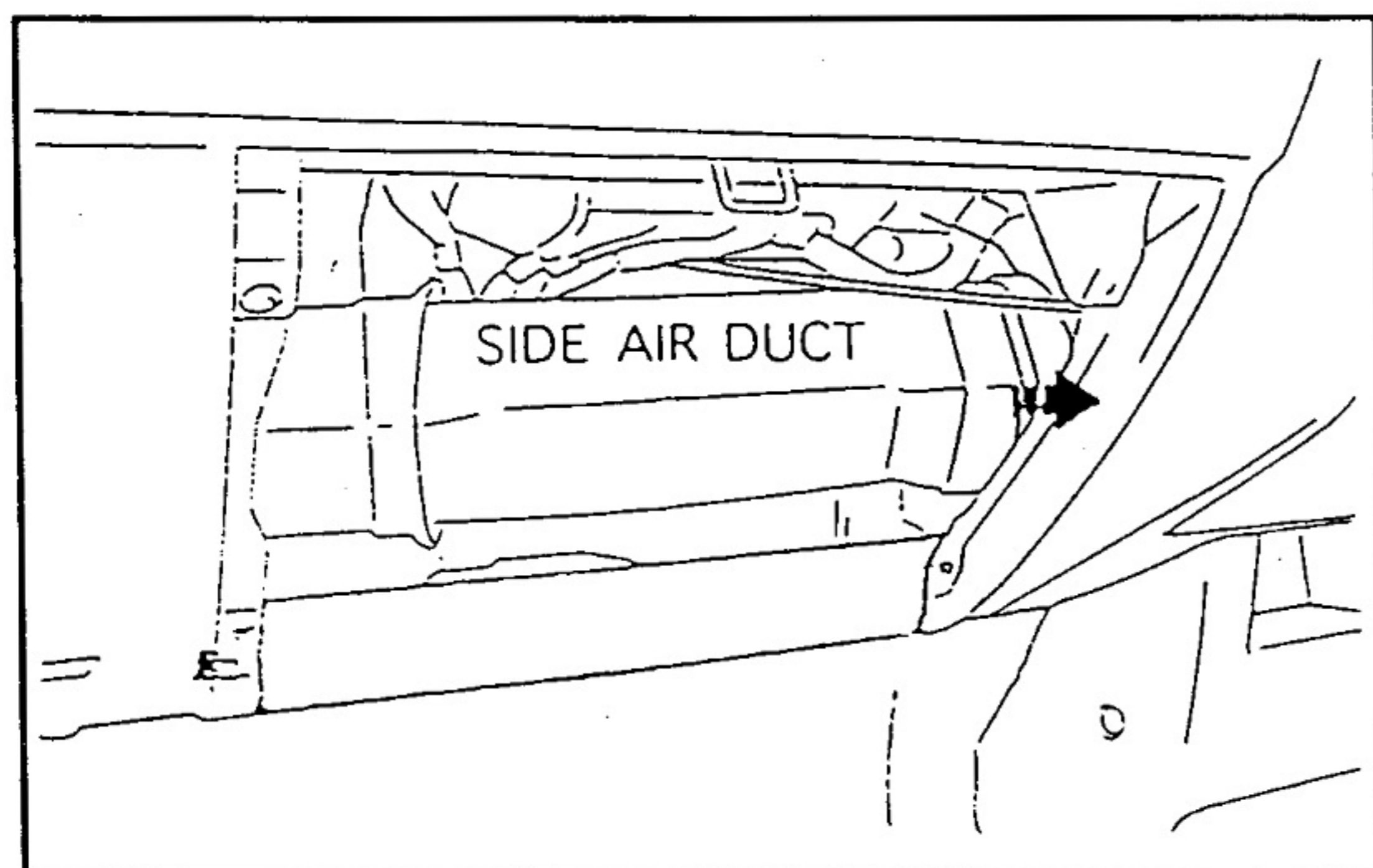


1. Check existence of A/M door sticking



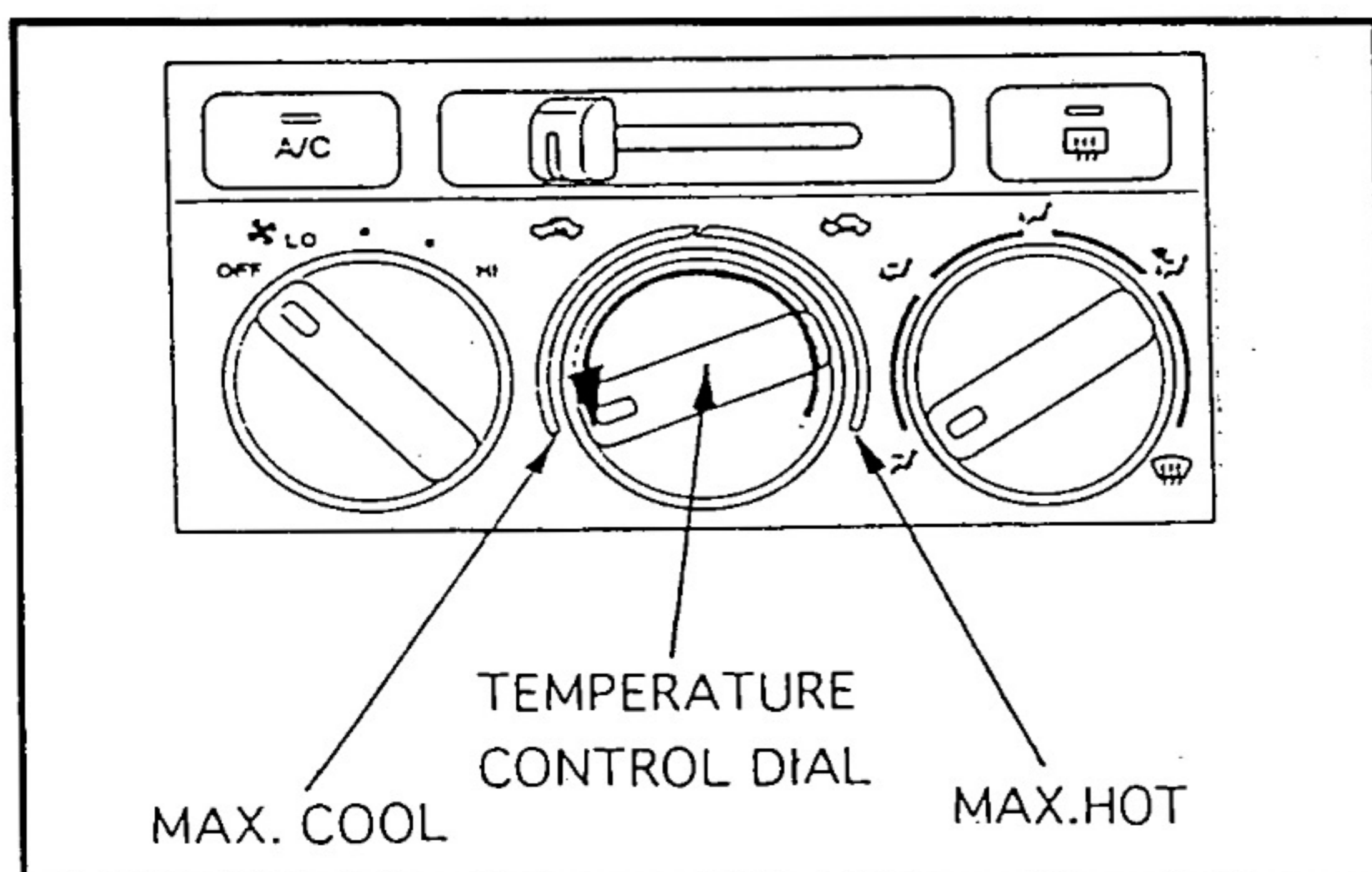
(1) Removal of parts

(a) Glove box



(b) Side air duct

Note : Move the side air duct to the right hand side, then pull it out from its left hand mounting point.



(2) Check existence of A/M door sticking

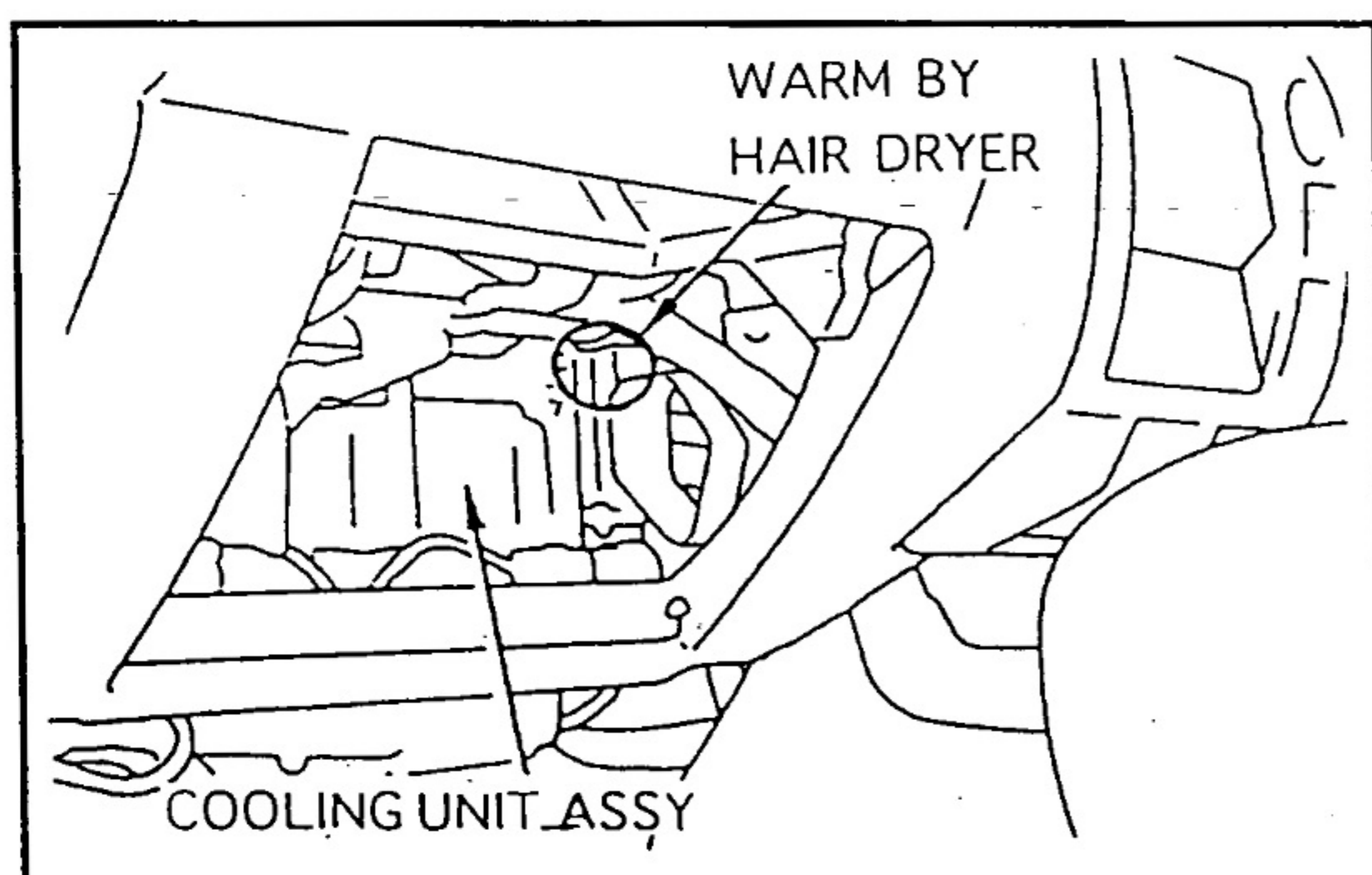
Check if temperature control dial can move from max. hot position to max. cool position and can rest at this position.

If no sticking of A/M door.(OK)

⇒ Go to Section 3, RECTIFY INTERFERENCE AREA OF A/M DOOR.

If sticking of A/M door.(NG)

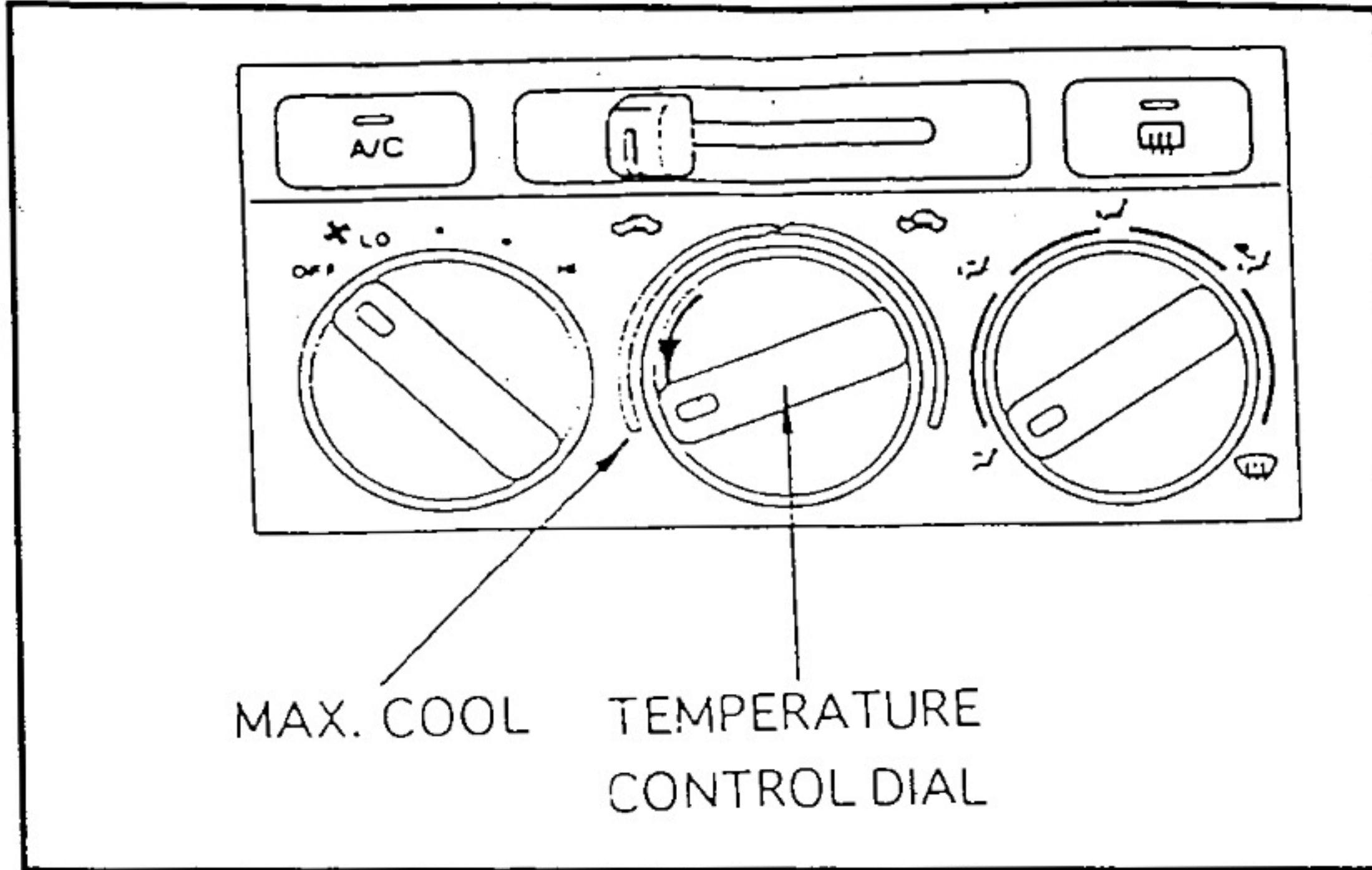
⇒ Go to Section 2, RELEASE A/M DOOR STICKING.



2. Release A/M door sticking

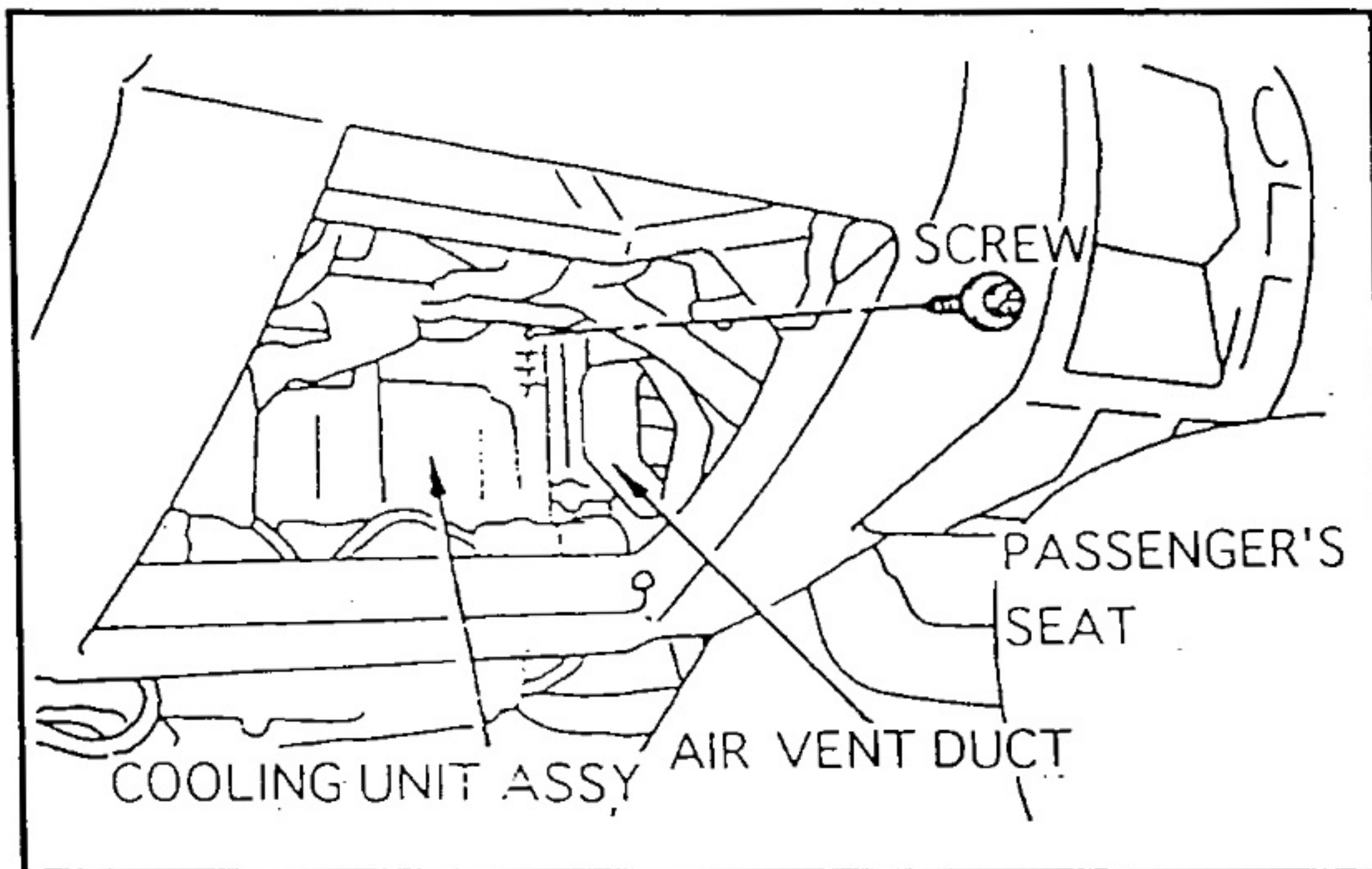
(1) Warm interference area of A/M door (Refer to highlighted area of left side figure) by hair dryer, and with temperature control dial at max. cool position.

(2) Confirm rasping sound due to A/M door sticking is not present.

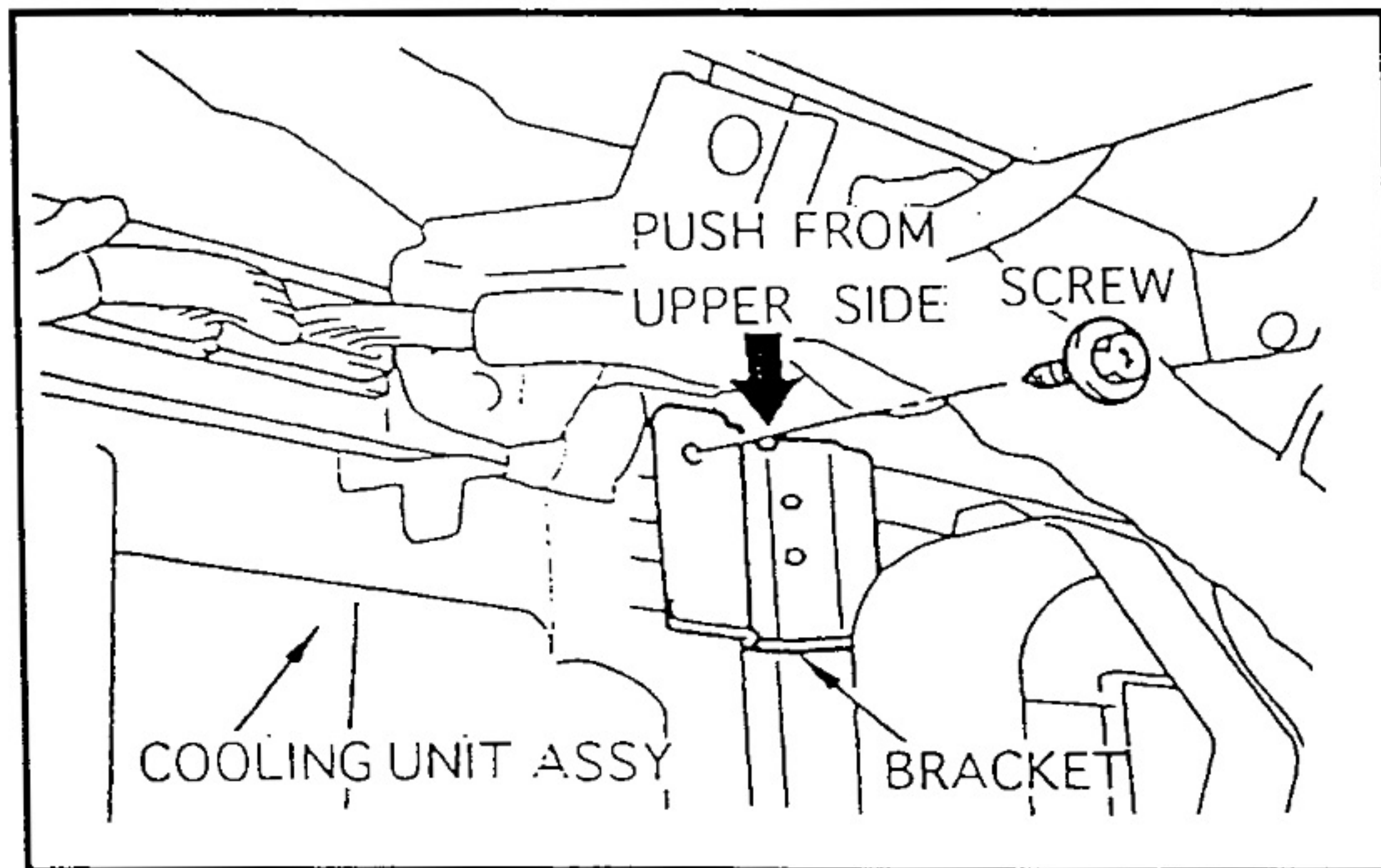


3. Rectify interference area of A/M door

- (1) Make hole in heater case
 (a) Set temperature control dial at max.cool position.



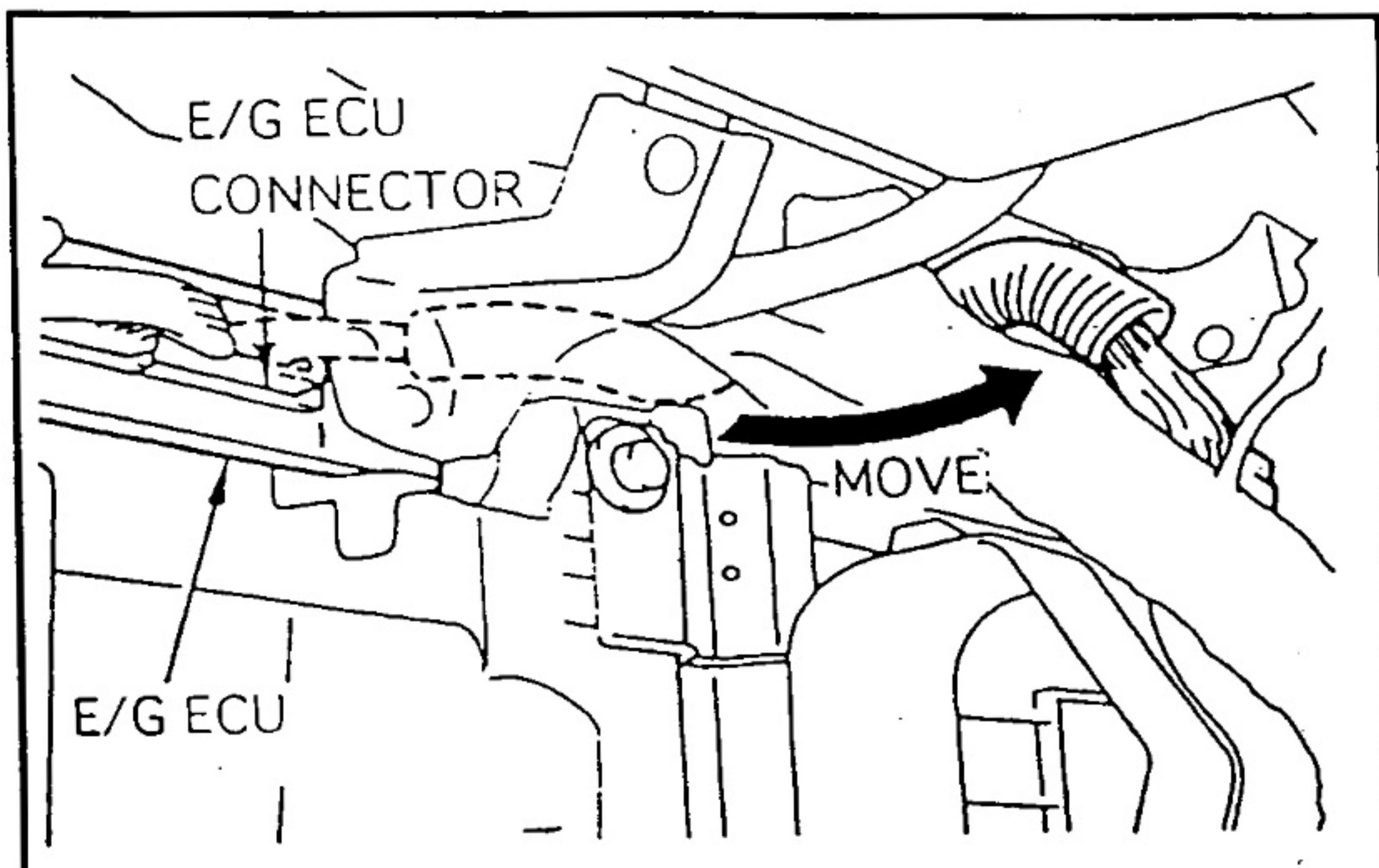
- (b) Remove the screw installing heater case.(Refer to left side figure.)



- (c) Install hole template bracket in F/FIX kit with the removed screw on heater case.

Caution

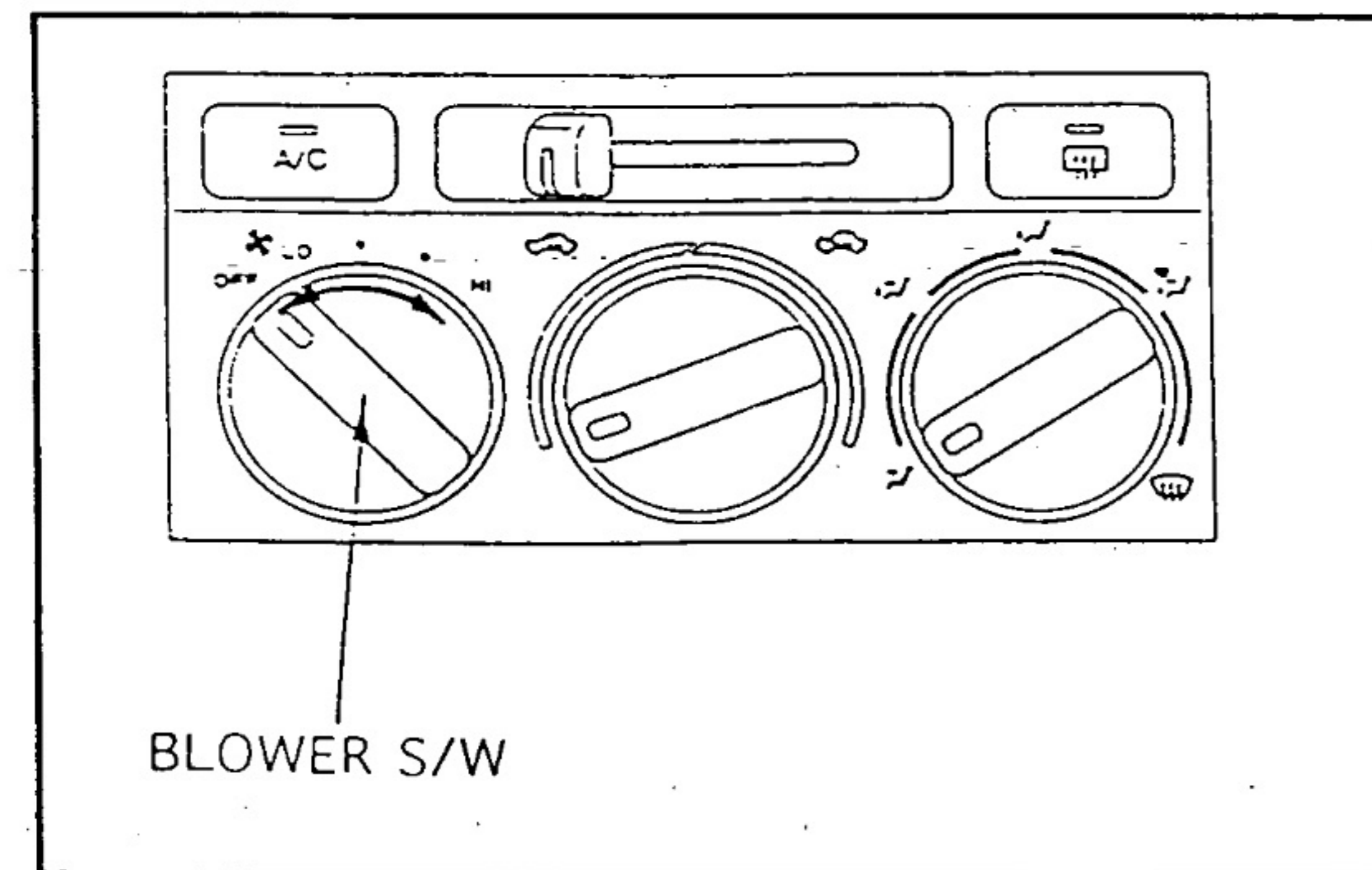
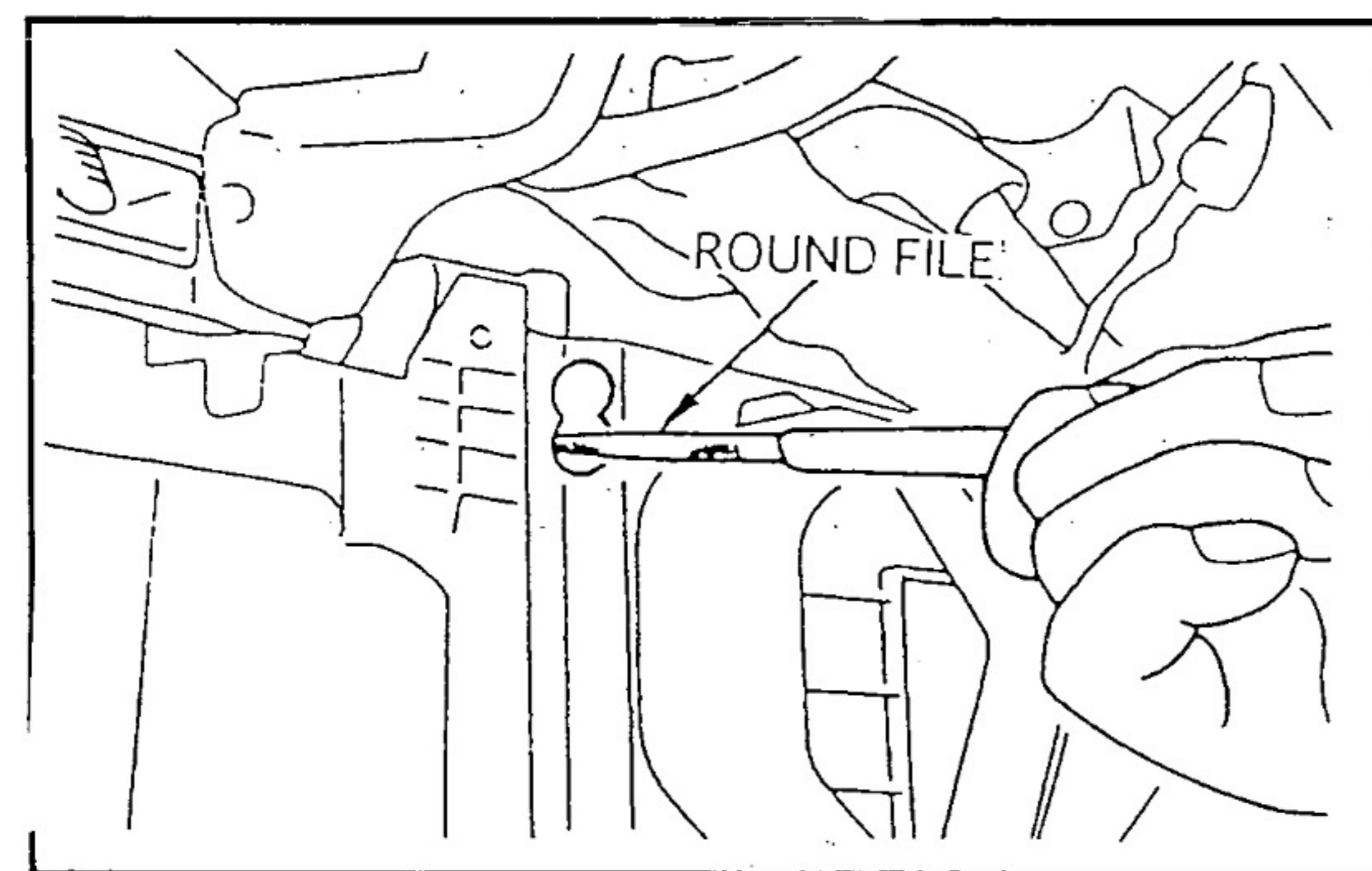
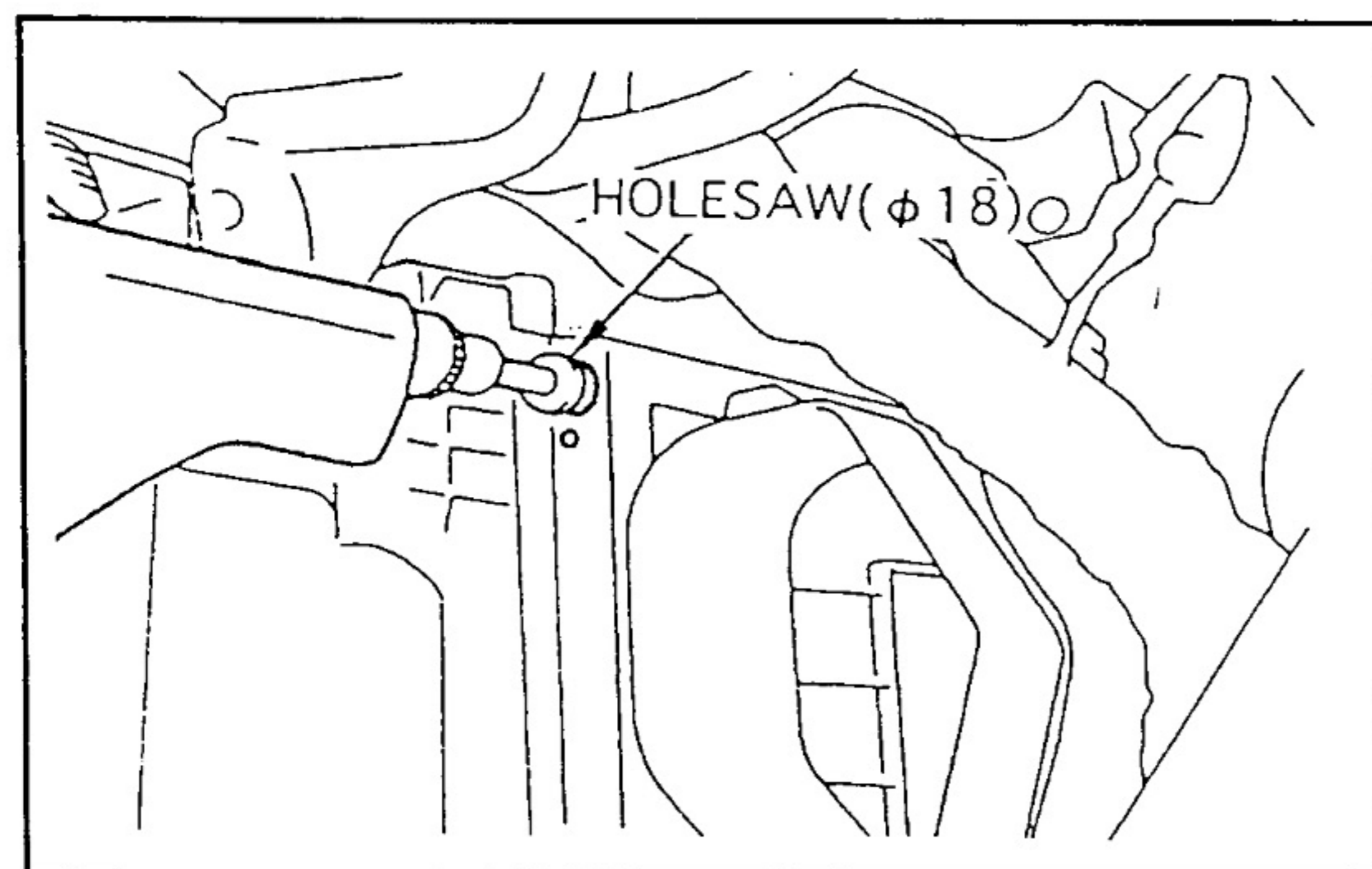
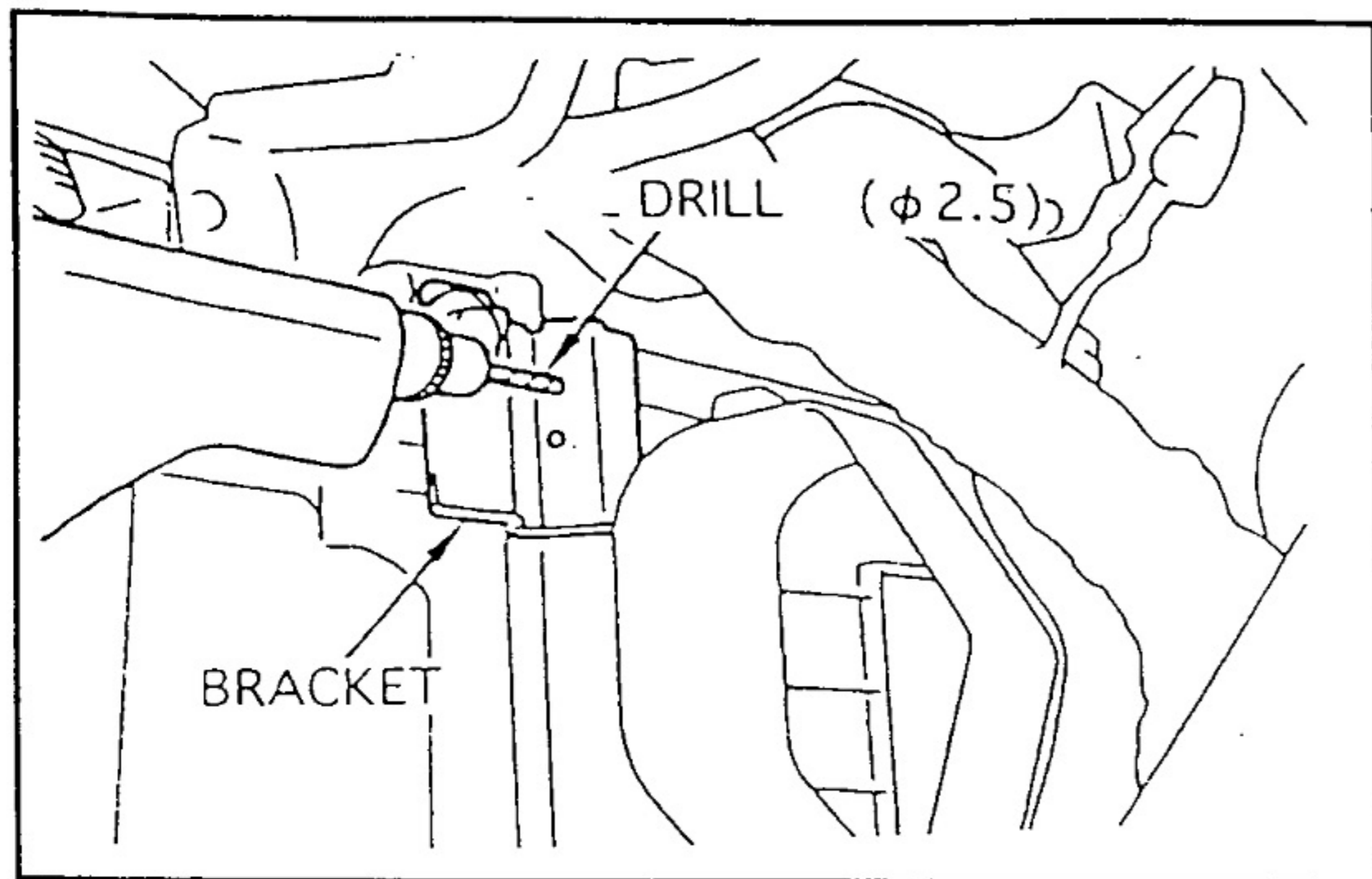
While installing bracket, push from upper side as shown in diagram.



- (d) Remove right side connector of E/G ECU and move to a position to prevent its damage during drilling of hole.
 (Refer to left side figure.)

- (e) Set A/C at IG-ON, max. cool position, fresh mode, face mode, blower S/W Hi.

- (f) Temporarily move A/M cable away from interference from drilling area.



Caution

1. Always wear proper eye protection to avoid injury from filings from drilling process.
2. Fresh mode must be set in order to prevent blower drawing in filings.

(g) Make two guide holes for holesaw in heater case by using (φ 2.5) electric drill with φ 2.5 drill bit through installed template bracket two holes (ø3).

(h) Remove the installed bracket.

(i) Make two holes in heater case using 18mm holesaw with electric drill through the two guide holes.

Caution

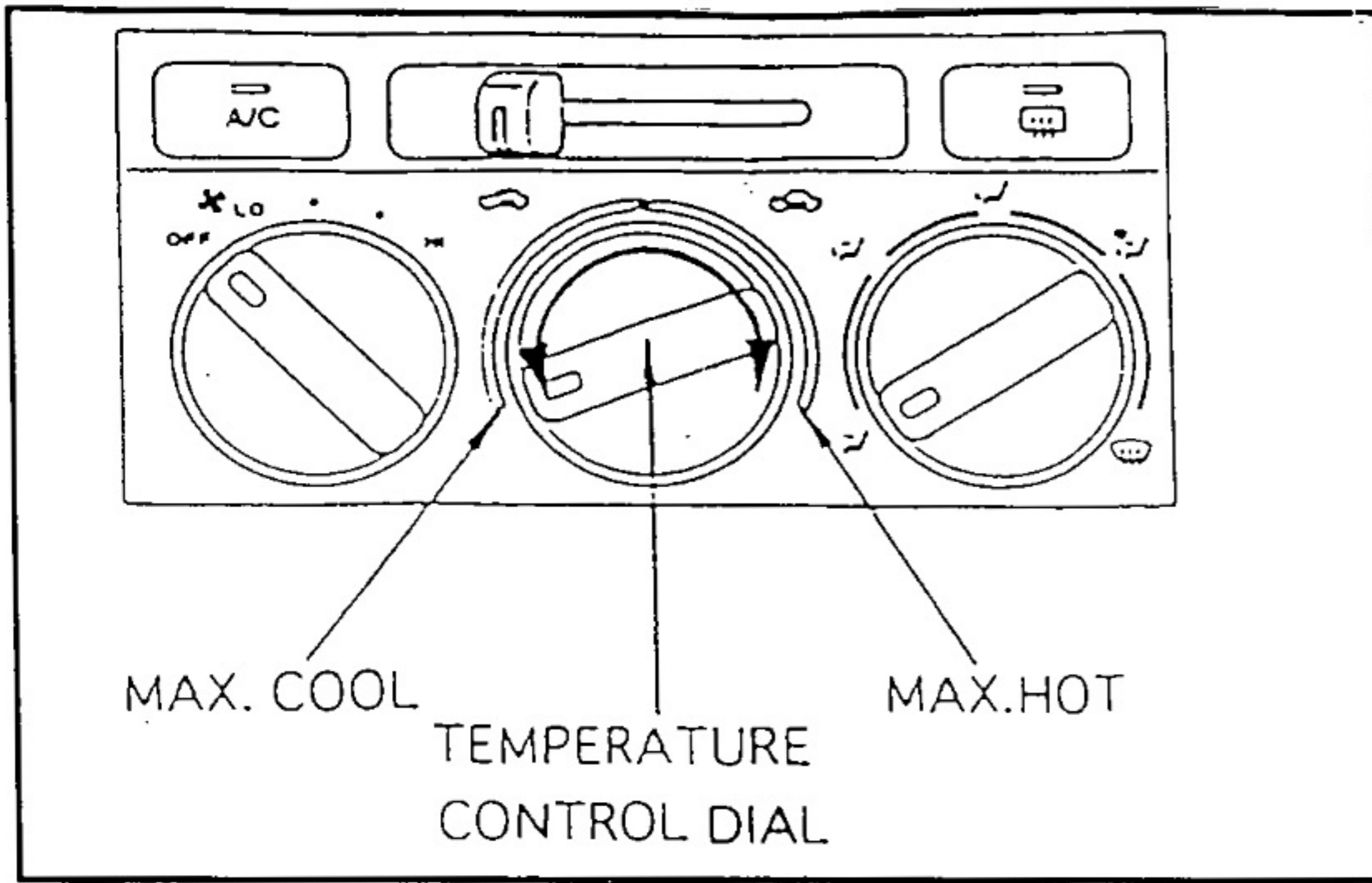
Pay attention in preventing damage to other parts when making holes.

(j) After making holes, remove the burrs around holes by using a round file and sandpaper.

(k) After removing the burrs around holes, discharge filings by alternating blower S/W between OFF and Hi.

Caution

After making holes, clean the floor of vehicle cabin with vacuum cleaner



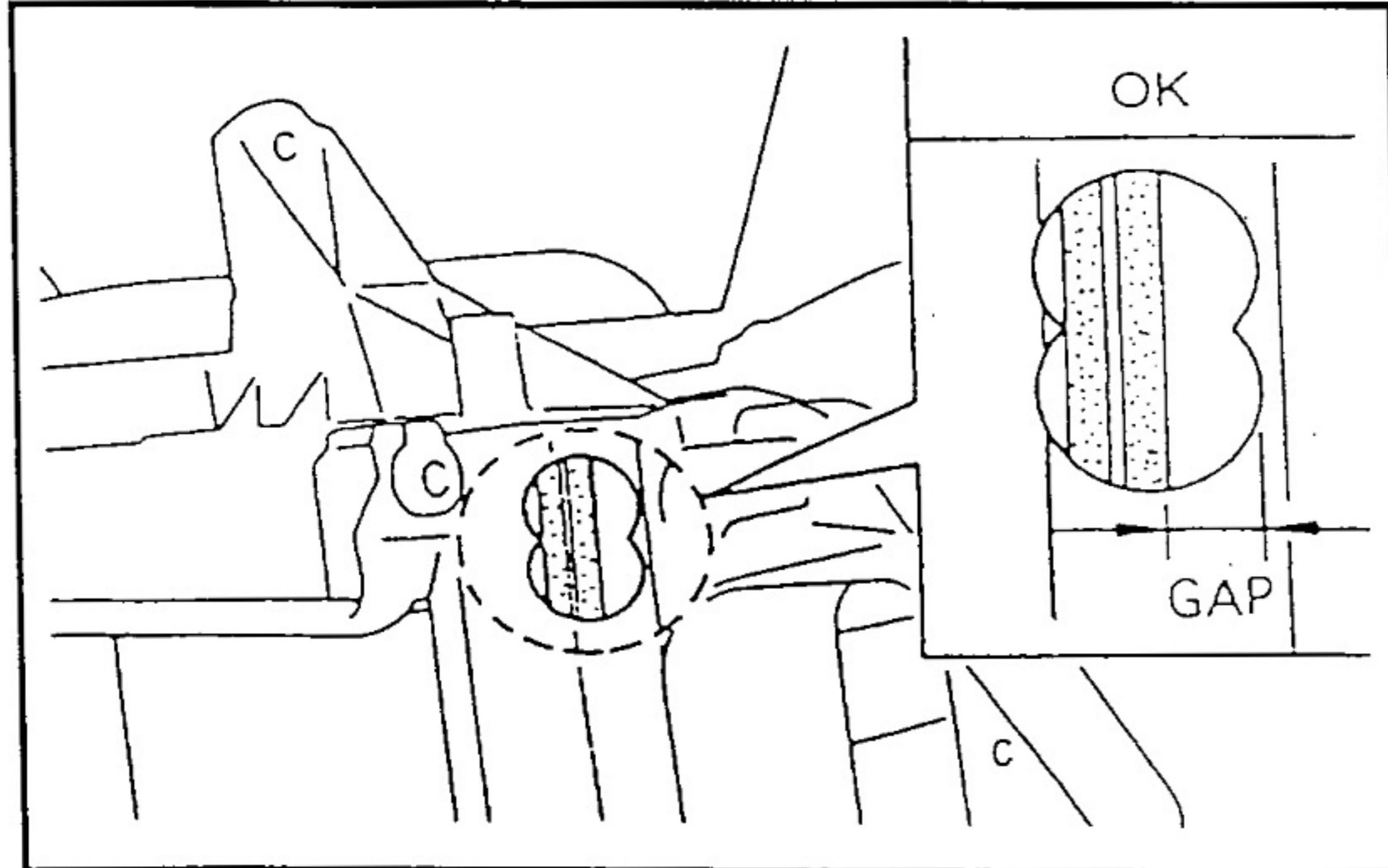
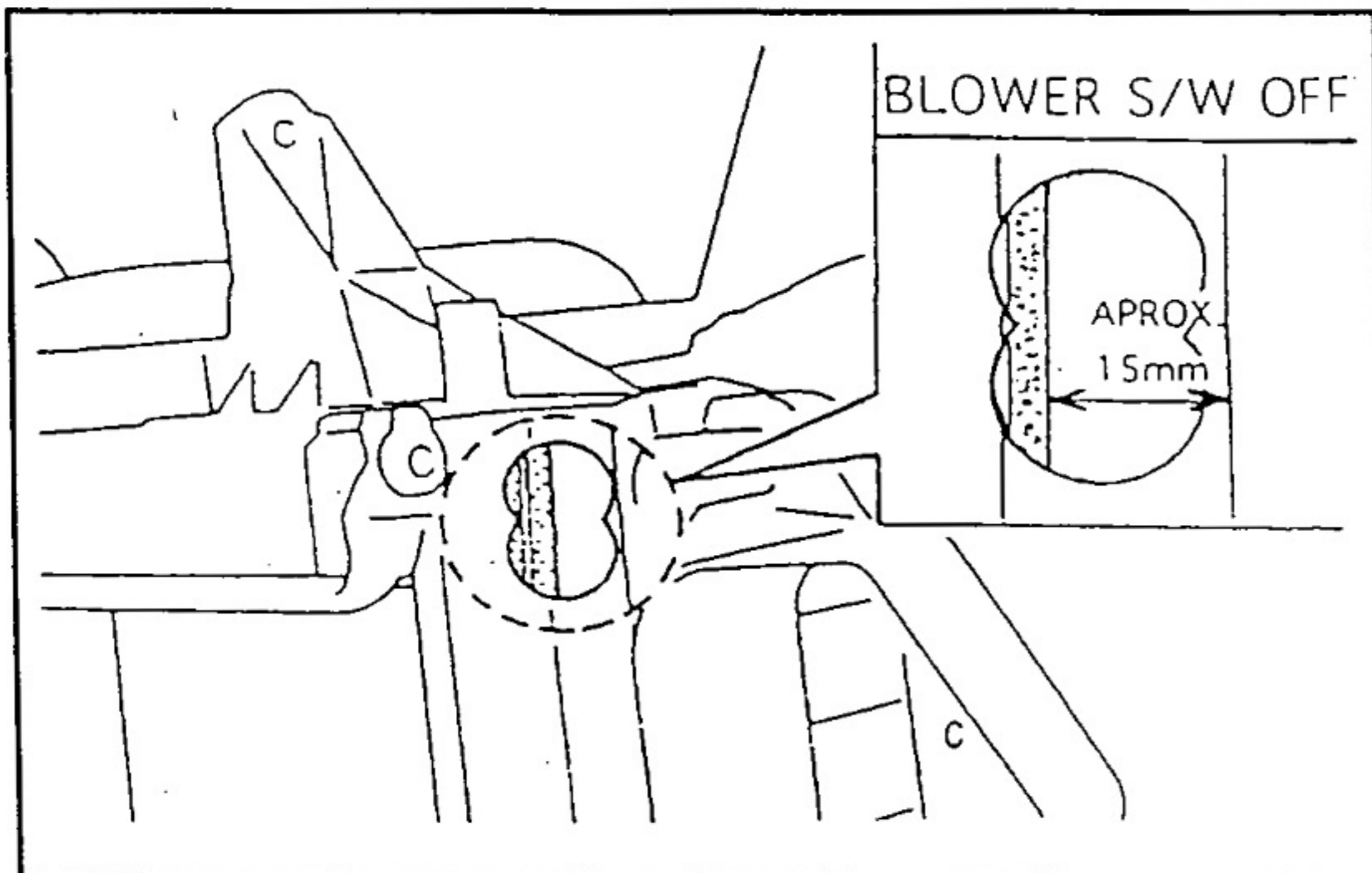
- (1) Check no interference of A/M door by alternating temperature control dial at max. cool position and max. hot position, then turn blower S/W off.

4. Check A/M linkage looseness

- (1) Confirm blower S/W is in the OFF position.
- (2) Set temperature control dial at max. hot position.
- (3) Set A/M door as shown in left side figure by moving temperature control dial slightly away from max. hot position.

Caution

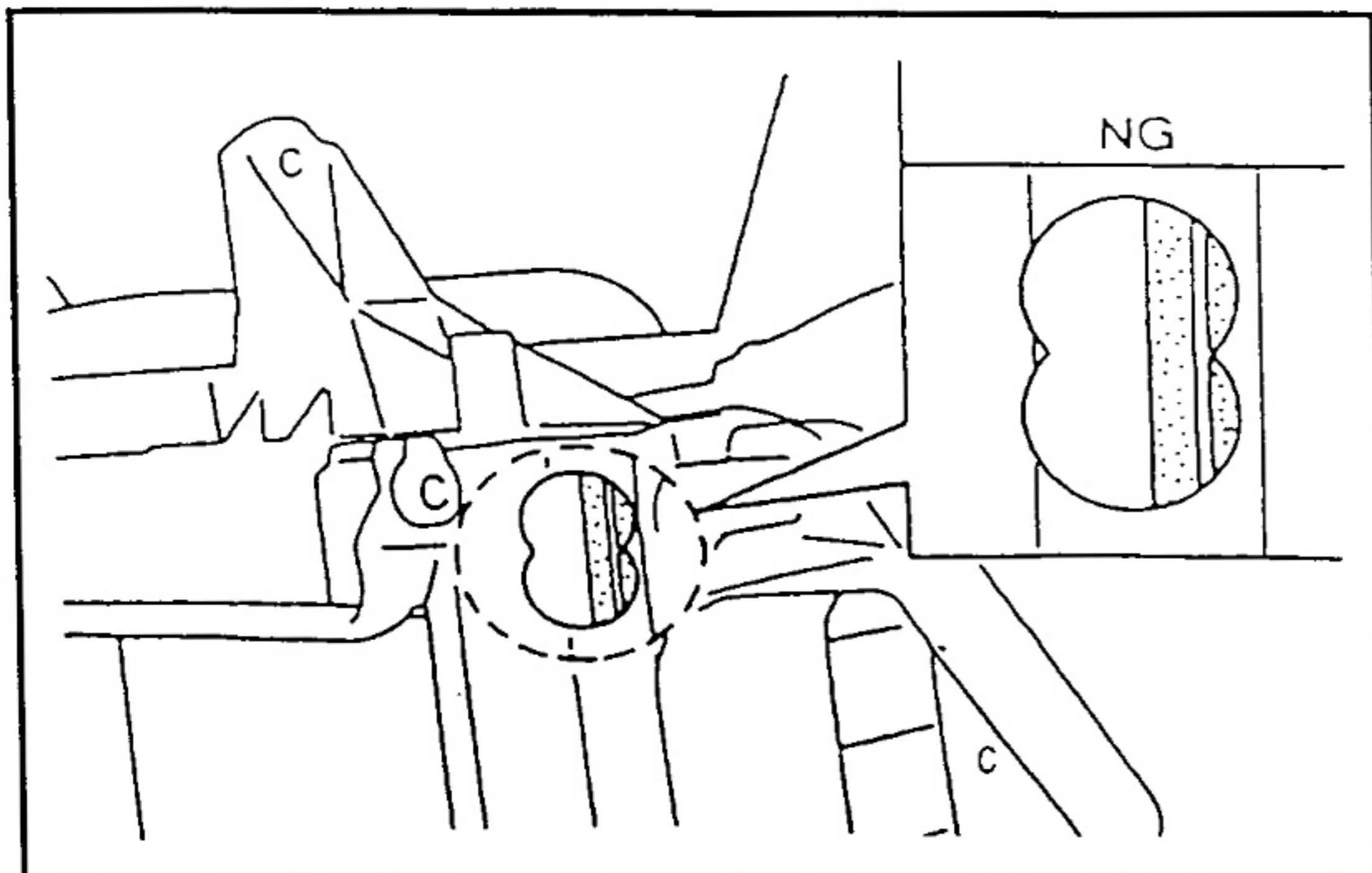
Set to the above condition by first setting A/M control to max. hot position first, then move control slightly away from max. hot in one movement. Do not alternate A/C door forwards, then backwards.



- (3) Set blower S/W to M2 position, then check A/M door position.

※ Blower S/W : Lo-M1-M2-Hi①

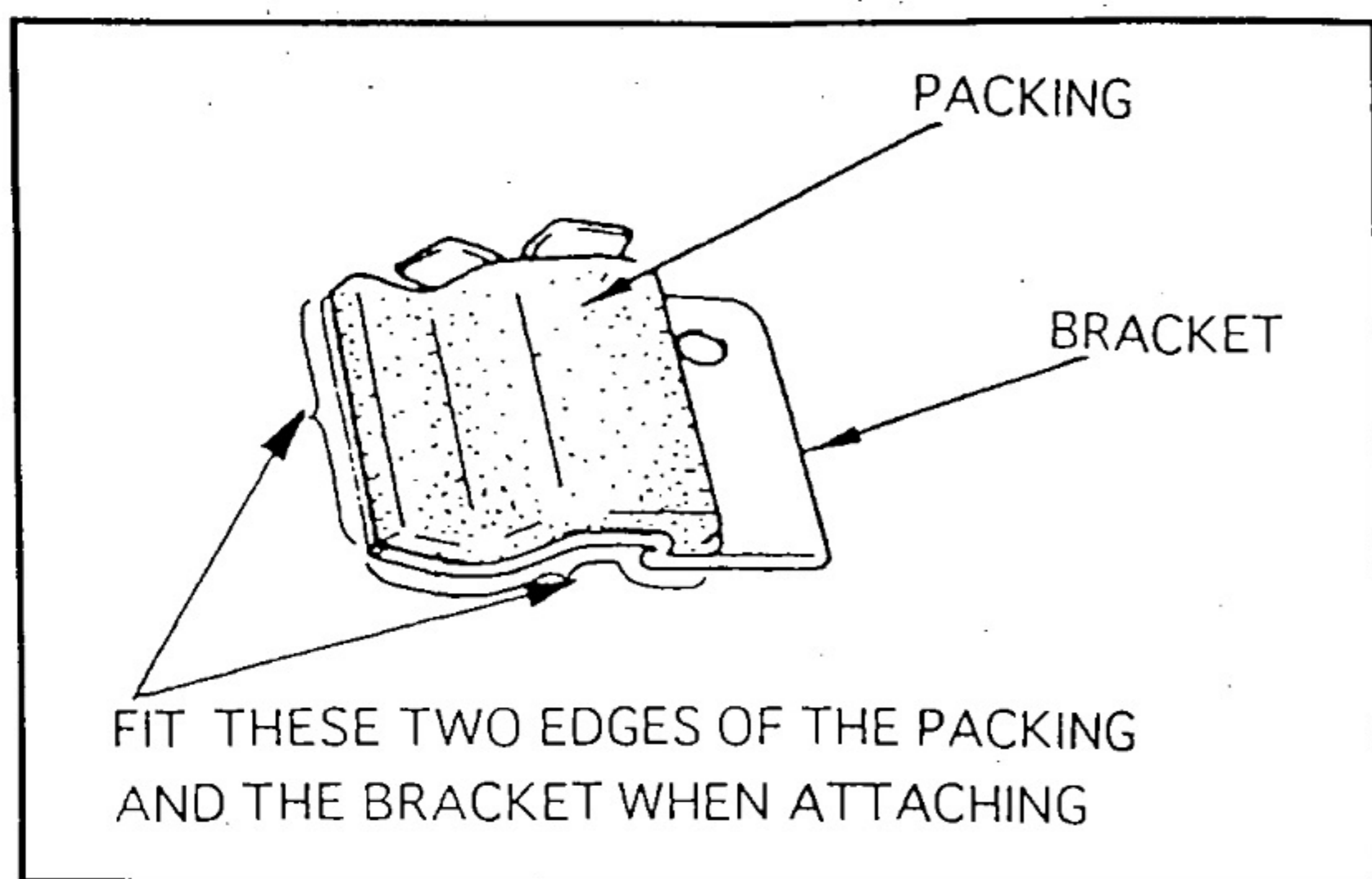
If there is a gap between A/M door and heater case as shown in left side figure, OK ⇒ Go to Section 5, BRACKET INSTALLATION.



If there is no gap between A/M door and heater case as shown in left side figure, NG ⇒ Exchange heater unit.

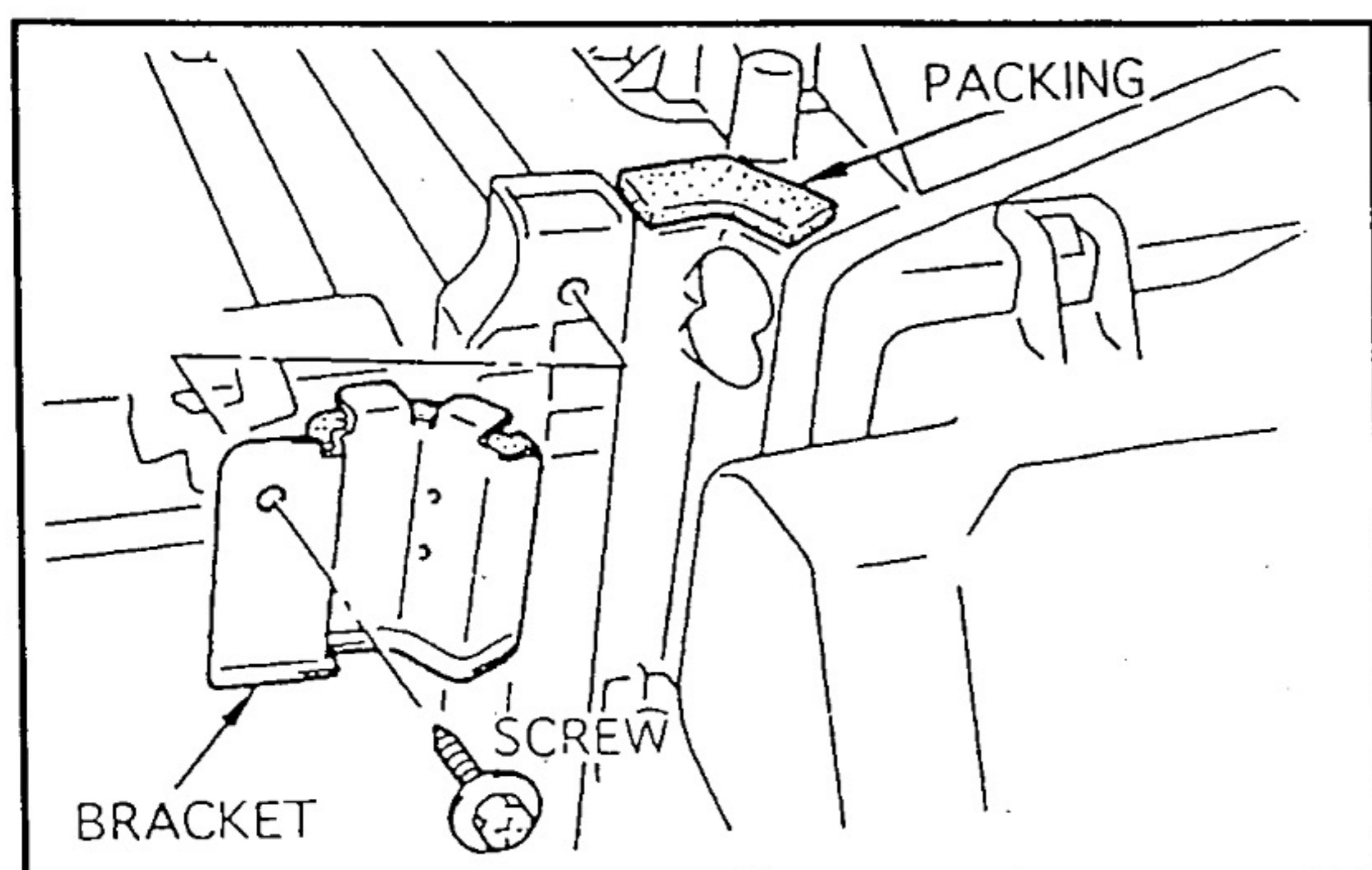
(Refer to vehicle repair manual)

Note : Ensure max. hot and max. cold positions are reached on control dial (i.e. no bounce back on A/M control dial at max. positions).



5. Bracket installation

(1) Attach the packing in F/Fix kit on the bracket as shown in left side figure.



(2) Attach the packing in F/Fix kit on heater case as shown in left side figure.

(3) Install the bracket on heater case with the original screw used in installing heater case.

6. Reinstallation of original parts

Reinstall all previously removed parts, such as E/G ECU connector, side air duct and glove box.