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Dale E Dawkins
Director - Vehicle Compliance and
Safety Affairs

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OFFICE
DEFECTS INVESTIGATION

March 3, 1995

Mr. William A. Boehly, Associate Administrator for Enforcement
Office of Defects Investigation, Enforcement
National Highway Traffic Safety Administration
U. S. Department of Transportation
400 Seventh Street, S.W.
Washington, D.C. 20590

Dear Mr. Boehly:

Reference: NHTSA Identification Number 92V-051.

Enclosed are representative copies of additional communications relating to the referenced recall.

To facilitate additional recall completions, Chrysler has implemented a follow-up owner notification program with owners of vehicles not yet complete. The enclosed notification was sent to all affected dealers.

Sincerely,

James V. Tracy / FOR

Dale E. Dawkins

cc: K.C. DeMeter

Enclosure: Recall #541 Notification

IMPORTANT
DEALER SERVICE INSTRUCTIONS
Safety Recall #541 -- Heater Core
Revised January, 1995

- This service requirement applies to all 1983 through 1987 model year Renault Alliance and Encore vehicles.
- A follow up owner notification is being conducted for this recall to all owners of involved vehicles for which this service has not yet been performed. The mailing will be done over several weeks to balance dealer service demand.
- Owners involved in this follow up mailing are being offered \$150.00 cash incentive if the recall is completed by December 31, 1995, and the appropriate documentation is submitted. As a result, the typical Recall Notification Form sent to owners will be replaced by an Owner Recall Incentive Claim Form. Dealers are to fill out the "Dealer Authorization" portion of this form, which includes providing the dealer's name, address and dealer code. A dealer representative must sign and date the form upon completion of this recall and return it to the owner with a copy of the Warranty Repair Order.
- Some of the involved vehicles may be on dealer used car lots. Be sure to complete the recall service on these vehicles immediately.
- The heater core on these vehicles may fail and could allow hot cooling system fluid to spray on the driver's legs, possibly causing severe burn injury. The heater core must be replaced using the expedited replacement service procedure enclosed. The procedure is the same as originally specified for this recall.
- During the service procedure, clamping off the heater core hoses is specified to prevent excessive coolant loss. This is an important procedure step because if more than the heater core coolant is lost, bleeding of the system during refill will be difficult and time consuming. The system must be filled and bled as described in the procedure to ensure that all air is expelled.

Failure to purge air from the cooling system will result in overheating and possible engine damage.

- While performing the recall service, 1985, 1986 and 1987 model vehicles must also be inspected to ensure that a replacement engine coolant bottle cap is installed as required by previous recall #425. If an original cap is present, it must be replaced with cap PN 4546111. See the Service Procedure Section of this letter for details.
- In some steps, the service procedure refers to differences in engine and model year. The engine and model year of a vehicle being serviced can be identified from the Vehicle Identification Number (VIN) as follows:
VIN 4th Character (Engine): D = 1.4L, E = 1.4L (California), A = 1.7L, V = 2.0L.
VIN 10th Character (Model Year): D = 1983, E = 1984, F = 1985, G = 1986, H = 1987.

Parts Update:

The automatic replenishment system previously used to supply parts for this recall has been cancelled. Parts will NOT be automatically distributed for this follow up owner notification. Required parts may be ordered by all dealers, as needed, to support customer demand. See the Parts Section of this letter for details.



Recall Notification

No. 541
May, 1992

Revised January, 1995

To: All Jeep/Eagle Dealers
Subject: Safety Recall #541 -- Heater Core
Models: All 1983 Through 1987 Model Year Renault Alliance & Encore Vehicles

The heater core on listed model vehicles may fail. The core is located in the center console and failure of the core could allow hot cooling system fluid to spray on the driver's legs, possibly causing severe burn injury. To correct the condition, the heater core must be replaced.

Important: Some of the involved vehicles may be on dealer used car lots. Be sure to complete the recall service on these vehicles immediately.

Details of this service action are explained in the following sections.

Service Procedure Videotape

As an additional service aid, another copy of the videotape (previously sent in May, 1992) demonstrating the service procedures will be mailed separately to all Jeep/Eagle dealers.

The tape does not demonstrate the first step of the service procedure which is **Bleeder Tee Inspection**. This step is necessary to assure proper air bleed when the cooling system is operated and topped off at the end of the procedure. **It is important to do this step first to assure proper bleeding later.**

Vehicle Lists/DIAL System Function 70

There will be NO VIN list provided with this letter. Dealers may use the previously provided VIN lists, if needed, for reference in arranging for service of involved vehicles.

All involved vehicles have been entered on DIAL System Function 70 for dealer inquiry by VIN as needed.

Parts

Important: The automatic replenishment system previously used to supply parts for this recall has been cancelled. Parts will NOT be automatically distributed for this follow up owner notification. Required parts may be ordered by all dealers (through the normal DIAL system), as needed, to support customer demand.

Three separate Heater Core Recall Parts Packages have been established as follows:

Package Part Number/Application

<u>Part Name</u>	<u>C3940476 for 1983-86, 1.4L</u>	<u>C3940490 for 1985-86, 1.7L</u>	<u>C3940496 All 1987</u>
Heater core	1	1	1
Retaining plate	1	1	1
Retaining plate screws	2	2	2
Quick-connect, 90° nipple	2	1	1
Quick-connect, straight nipple	N/A	1	1
Bulkhead seal	1	1	1
Bulkhead seal screws	2	2	2
Heater hose clamps	2	3	4
Brake pedal retaining clip	2	2	2
Brake pin retaining cotter pin	1	1	1
Rivet, W.O.T. cutout switch	2	N/A	N/A
Heater hose, 2 1/2"	N/A	1	N/A
Heater hose, 9 1/4"	N/A	N/A	1
Heater hose, formed	N/A	N/A	1

Also included in each package is an instruction summary for convenient reference by the servicing technician.

Owner Notification and Service Scheduling

All owners of involved vehicles for which this service has not yet been performed are now being sent a follow up notice by first class mail. The mailing will be done over several weeks to balance dealer service demand.

Owners receiving notifications are requested to schedule appointments for the service with their dealers at the earliest possible date. A copy of the owner notification letter is attached.

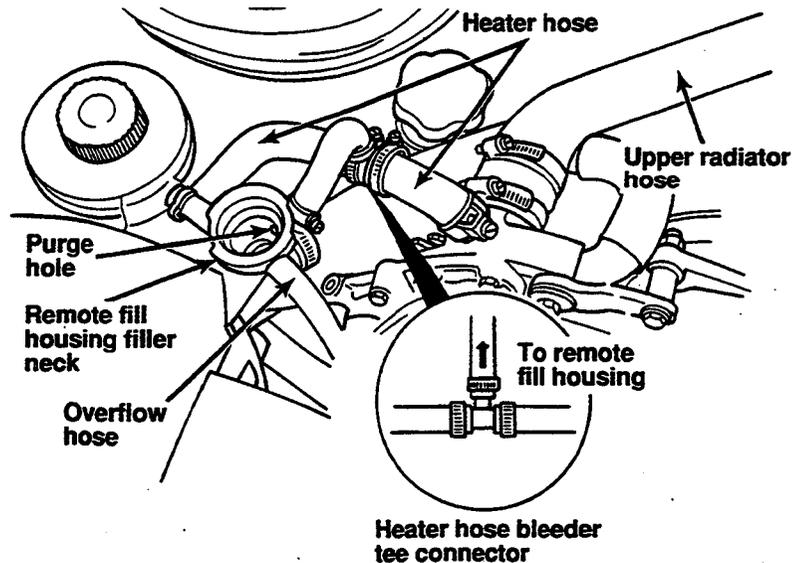
Enclosed with each owner notification is an Owner Recall Incentive Claim Form. The involved vehicle and recall are identified on the form for owner or dealer reference as needed.

Service Procedure

I. HEATER CORE REPLACEMENT

A. Bleeder Tee Inspection/Cleaning -- To Assure Proper Air Bleed

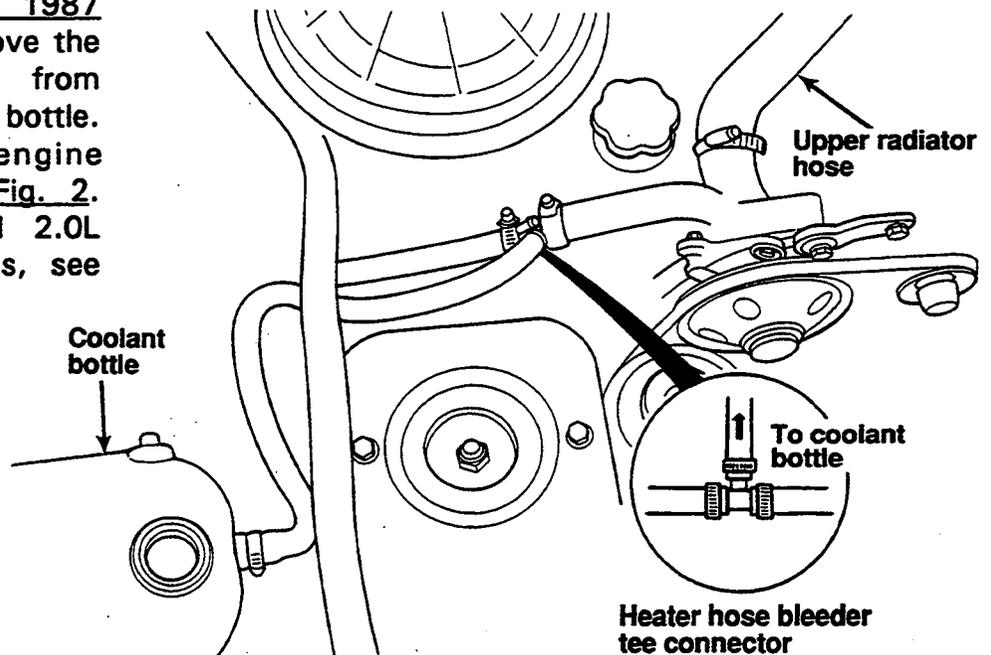
1. For 1983 & 1984 Models: Remove the coolant pressure cap from the remote coolant fill neck (Fig. 1).



1983-1984 MODELS

Figure 1

- For 1985 - 1987 Models: Remove the pressure cap from the coolant bottle. For 1.4L engine vehicles see Fig. 2. For 1.7L and 2.0L engine vehicles, see Fig. 3.



1985-1987 MODELS
1.4L ENGINE

Figure 2

Service Procedure

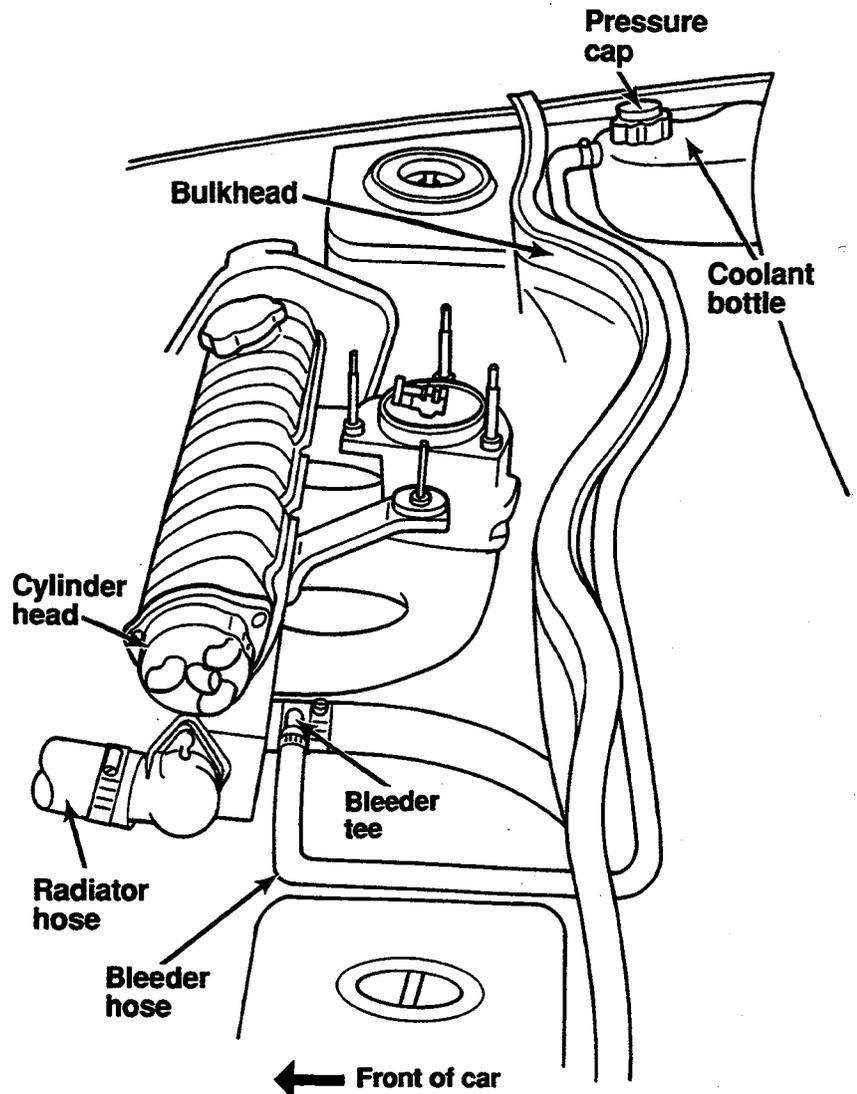
I. HEATER CORE REPLACEMENT

A. Bleeder Tee Inspection/Cleaning -- To Assure Proper Air Bleed (Continued)

2. Start the engine and verify that the bleeder tee is allowing coolant to flow into the remote fill or the coolant bottle.

If no flow exists remove the small hose from the bleeder tee and clean out the orifice. Reinstall the hose. Restart the engine and verify that there is coolant flow through the bleeder tee.

3. Reinstall the pressure cap.



1985-1987 MODELS
1.7L & 2.0L ENGINE

Figure 3

Service Procedure

I. HEATER CORE REPLACEMENT

B. Disconnect Heater Hoses

1. With the ignition key in the OFF position, disconnect the battery negative cable.
2. For 1983 - 1986 models with 1.4L engine: Clamp both heater hoses near the bulkhead heater core attachments to prevent coolant loss from the system (Fig. 4).

For 1985 - 1986 models with 1.7L engine and all 1987 models: Clamp the lower hose near the core as shown in Fig.4. Do not clamp the upper hose near the core because this hose will be replaced. Instead clamp off both hoses on the other (forward) side of the tee (or oil cooler) that the upper hose connects to.

CAUTION: CLAMPING OF THE HEATER HOSES IS NECESSARY TO PREVENT EXCESSIVE LOSS OF COOLANT FROM THE SYSTEM DURING HEATER CORE REPLACEMENT. EXCESSIVE LOSS OF COOLANT WILL MAKE IT DIFFICULT AND TIME CONSUMING TO BLEED AIR FROM THE SYSTEM DURING REFILL. BLEEDING THE AIR FROM THE SYSTEM IS ESSENTIAL TO PREVENT ENGINE DAMAGE.

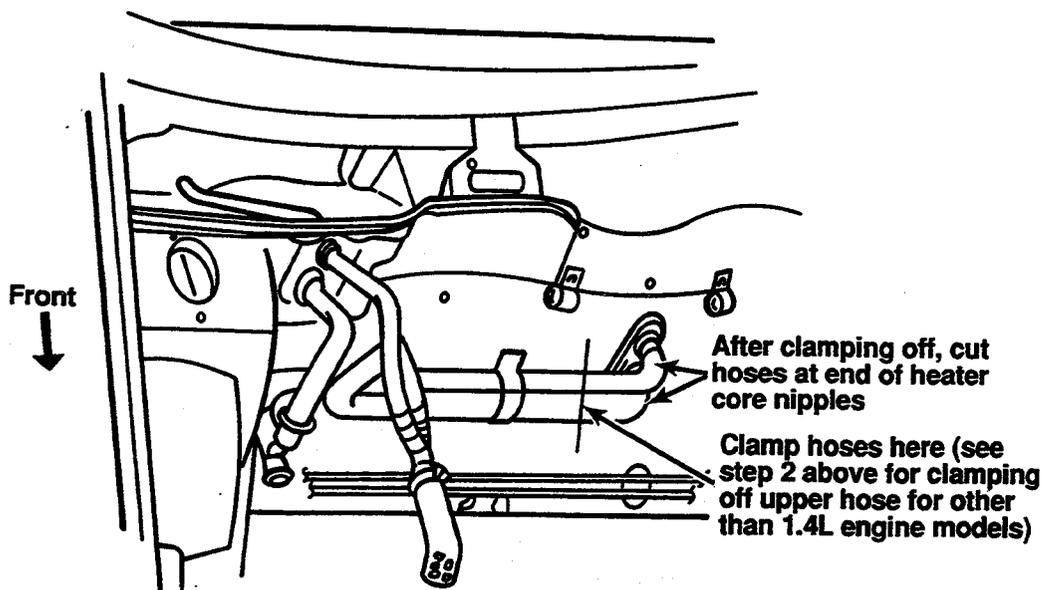


Figure 4

Service Procedure

I. HEATER CORE REPLACEMENT

B. Disconnect Heater Hoses (Continued)

3. Cut both heater hoses off at the end of the heater core nipples (Fig. 4).
4. Remove and discard the bulkhead retainer plate attaching screws. Remove and save the metal retainer plate for reuse (Fig. 5).

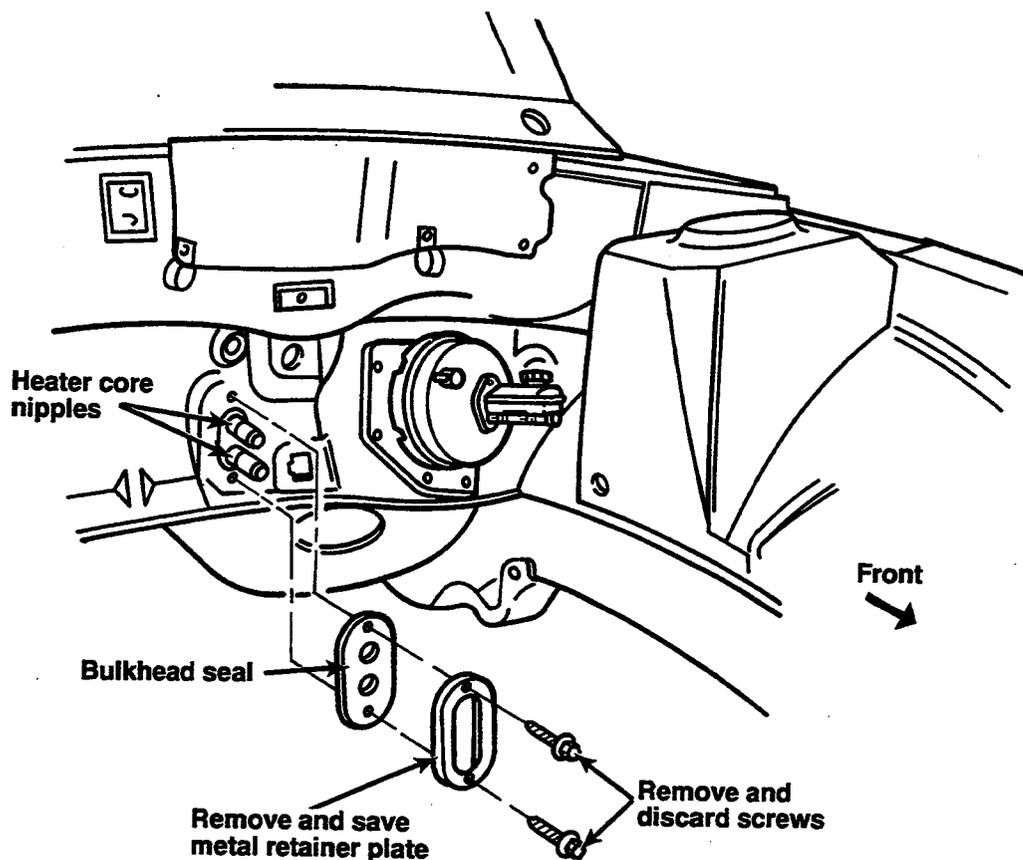


Figure 5

5. Using approximately 15 psi shop air pressure, blow the coolant out of the heater core through the nipples.

Service Procedure

I. HEATER CORE REPLACEMENT

C. Loosen & Move Center Console Rearward

1. Remove the 2 center console attaching screws at the sides of the console (Fig. 6).

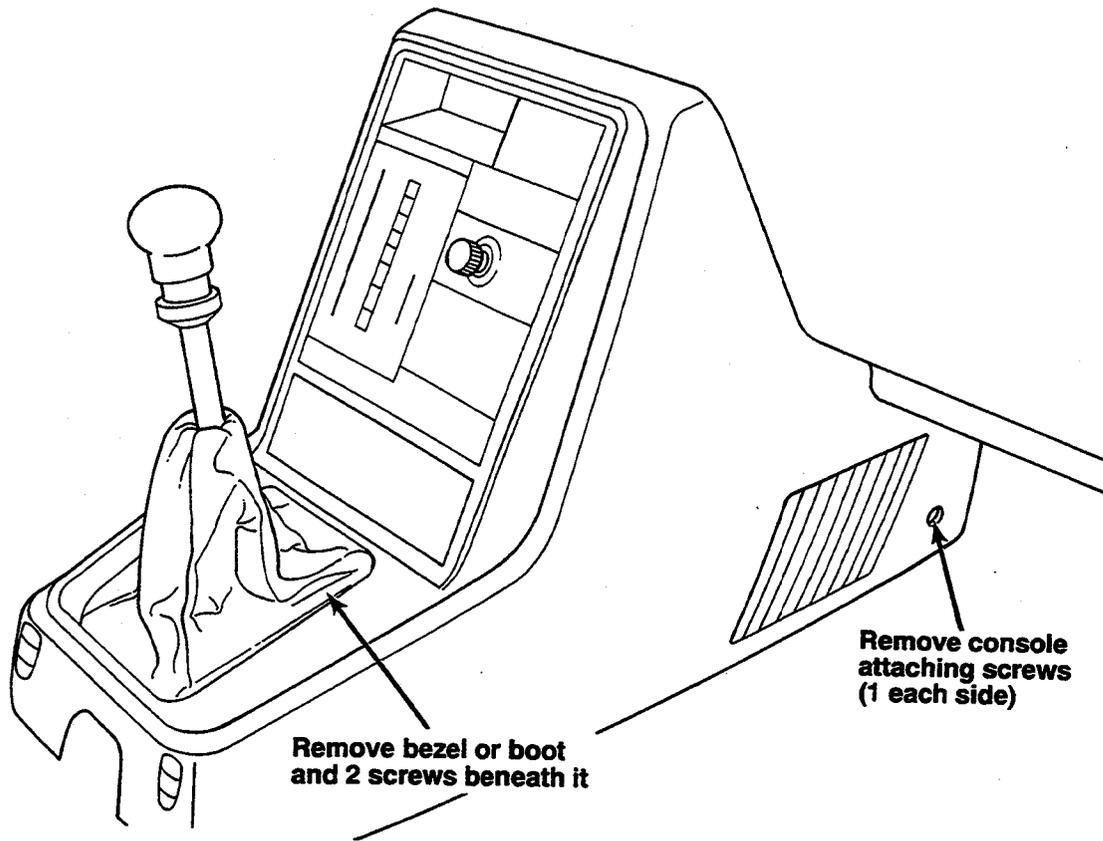


Figure 6

2. Remove the automatic transmission shift bezel (or remove the manual transmission shift boot) by snapping out the plastic trim piece. **Caution:** use care when removing the automatic transmission shift indicator mylar strip to avoid tearing or kinking.
3. Remove the 2 screws located under the bezel (or boot) at the rear of the console (Fig. 6).
4. For 1983 - 1985 models, remove the console attaching screws (Fig. 7):
 - a. Remove the two screws from the top of the console by the clock and snap off the overlay bezel (removal of radio attaching nuts is necessary on certain models).

Service Procedure

I. HEATER CORE REPLACEMENT

C. Loosen & Move Center Console Rearward (Continued)

- 4 b. Remove the clock and package tray from the console to access the speed nuts attaching the top of the console to the instrument panel.
- c. Remove the two speed nuts that retain the console at the top to the instrument panel. Note: 1986 and 1987 vehicles have clips which hold the console to the instrument panel.
- d. Remove the four screws attaching the heater controls to the console. (This will allow the center console to be moved rearward without damaging the heater cables.)

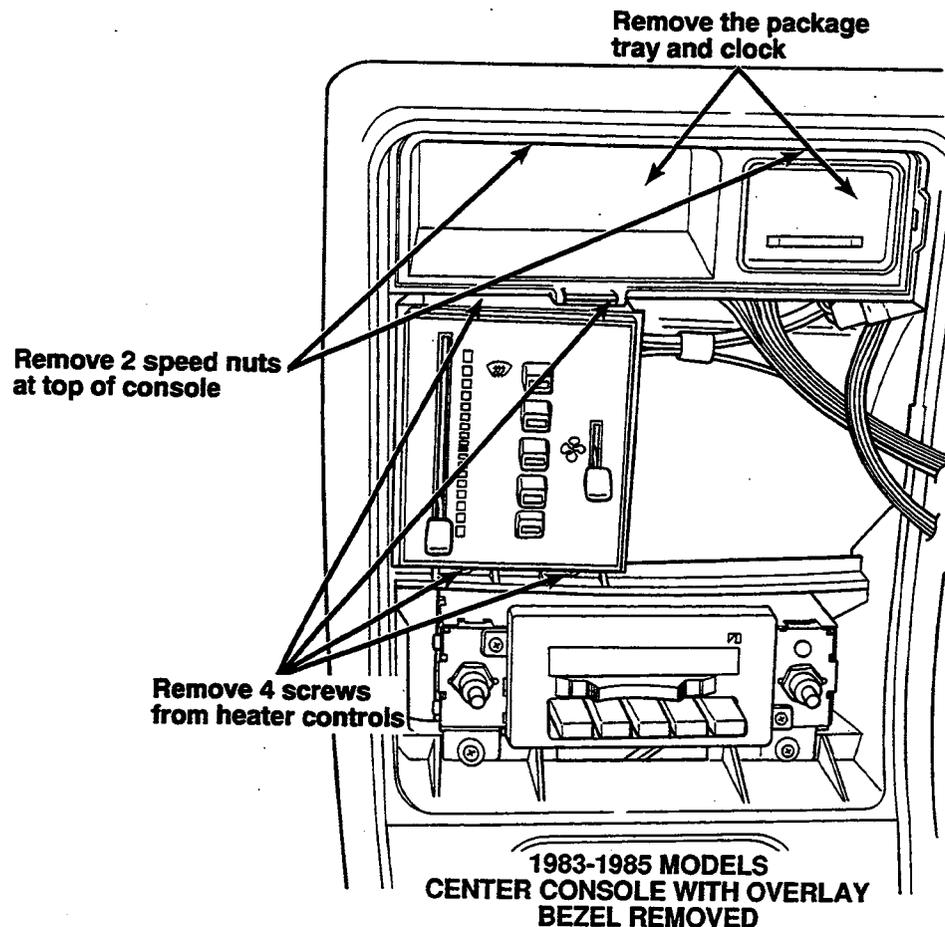


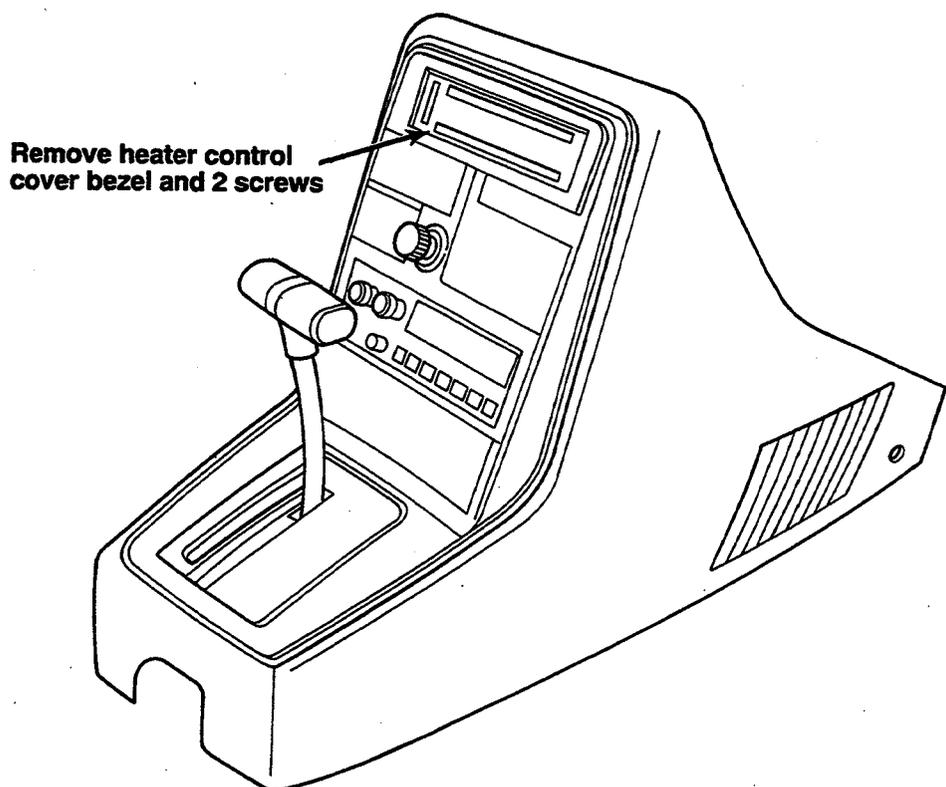
Figure 7

Service Procedure

I. HEATER CORE REPLACEMENT

C. Loosen & Move Center Console Rearward (Continued)

5. For 1986 - 1987 models, (Fig. 8): Snap off the heater control cover bezel and remove the two heater control attaching screws and pull the console free from the instrument panel clips.



1986-1987 MODELS

Figure 8

6. For all models: Pull the console as far rearward as possible between the front seats. **NOTE:** No electrical connections need to be removed.

Service Procedure

I. HEATER CORE REPLACEMENT

D. Brake Pedal or Brake/Clutch Pedal Removal

1. Remove the stop lamp switch trim cover (Fig. 9).

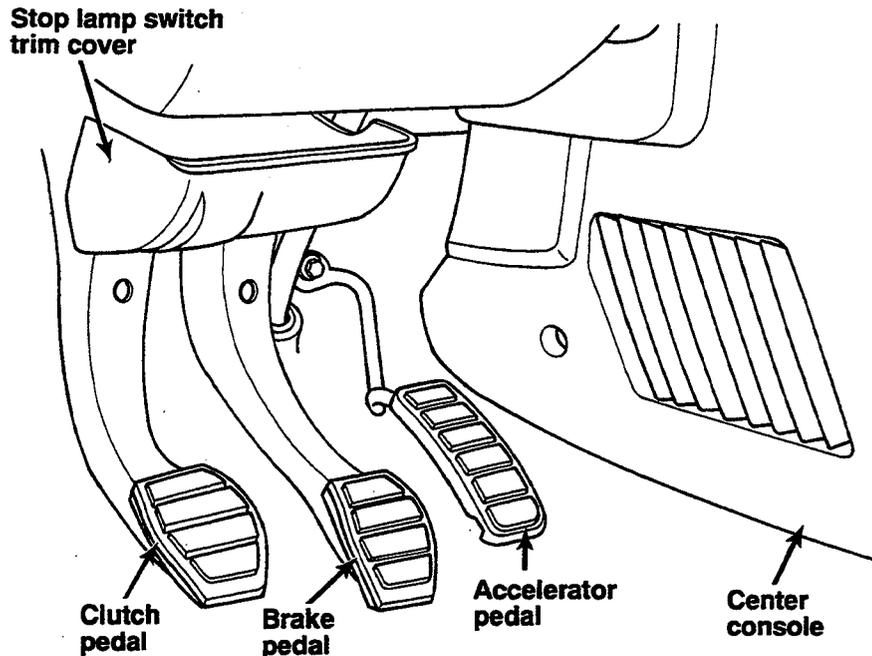


Figure 9

2. Remove and discard the inboard retaining clip from the brake pedal (or brake/clutch pedal) pivot pin. (Leave the outboard clip on at this time. On manual transmission vehicles this will help retain the clutch mechanism on the pivot pin as required in step 4 below. The clip will be replaced during later reassembly.)
3. Remove and discard the cotter pin from the end of the master cylinder push rod pin. Remove and save the pin and plastic bushing.
4. For automatic transmission vehicles: Slide the brake pedal pivot pin outboard and remove from the mounting bracket.

For manual transmission vehicles: Slide the pivot pin and clutch pedal assembly outboard, out of the mounting bracket and set the assembly out of the way on the floor. **Note: do not remove the pin from the clutch pedal as this will require the clutch adjuster mechanism to be reassembled.**

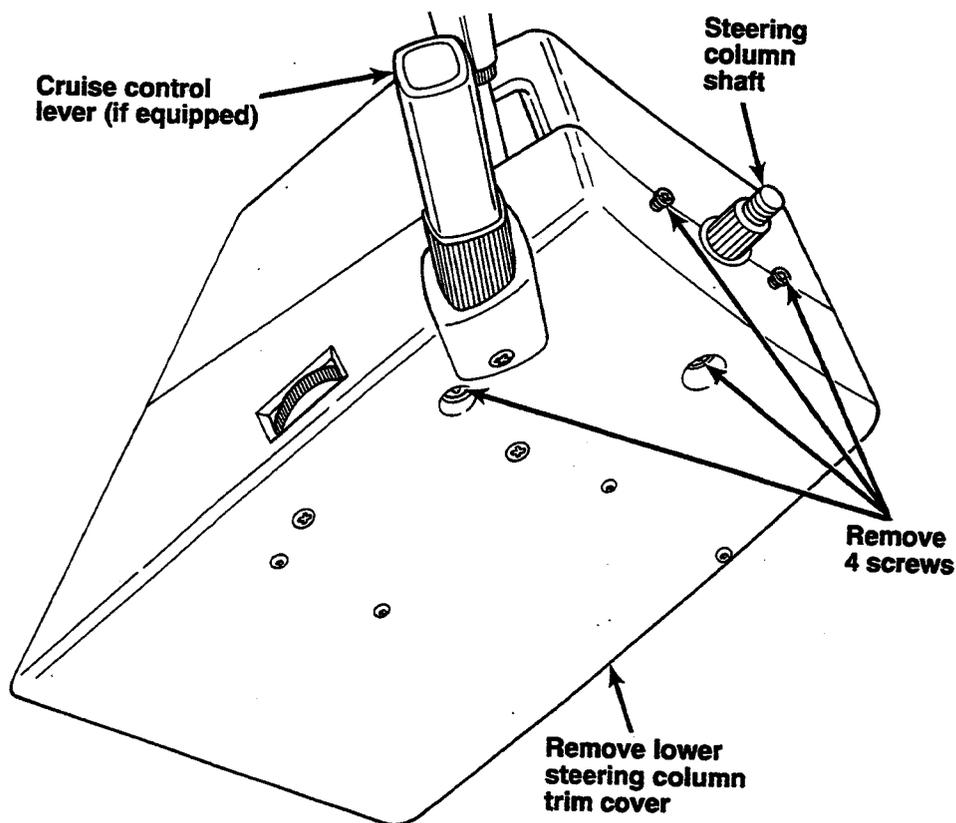
5. Remove the brake pedal from the vehicle.

Service Procedure

I. HEATER CORE REPLACEMENT

E. Steering Wheel & Column Disassembly

1. Remove the steering wheel trim cover.
2. Turn the ignition switch to the ON position. For tilt wheel, place the column in the center position, unscrew and remove the tilt lever.
3. Mark the steering wheel to shaft location (for proper alignment when reassembling the wheel to the shaft). Remove the steering wheel attaching nut.
4. Pull the steering wheel off the splined shaft.
5. For standard (non-tilt) column vehicles, remove the screws retaining the lower steering column trim cover (Fig. 10a).



STANDARD COLUMN

Figure10a

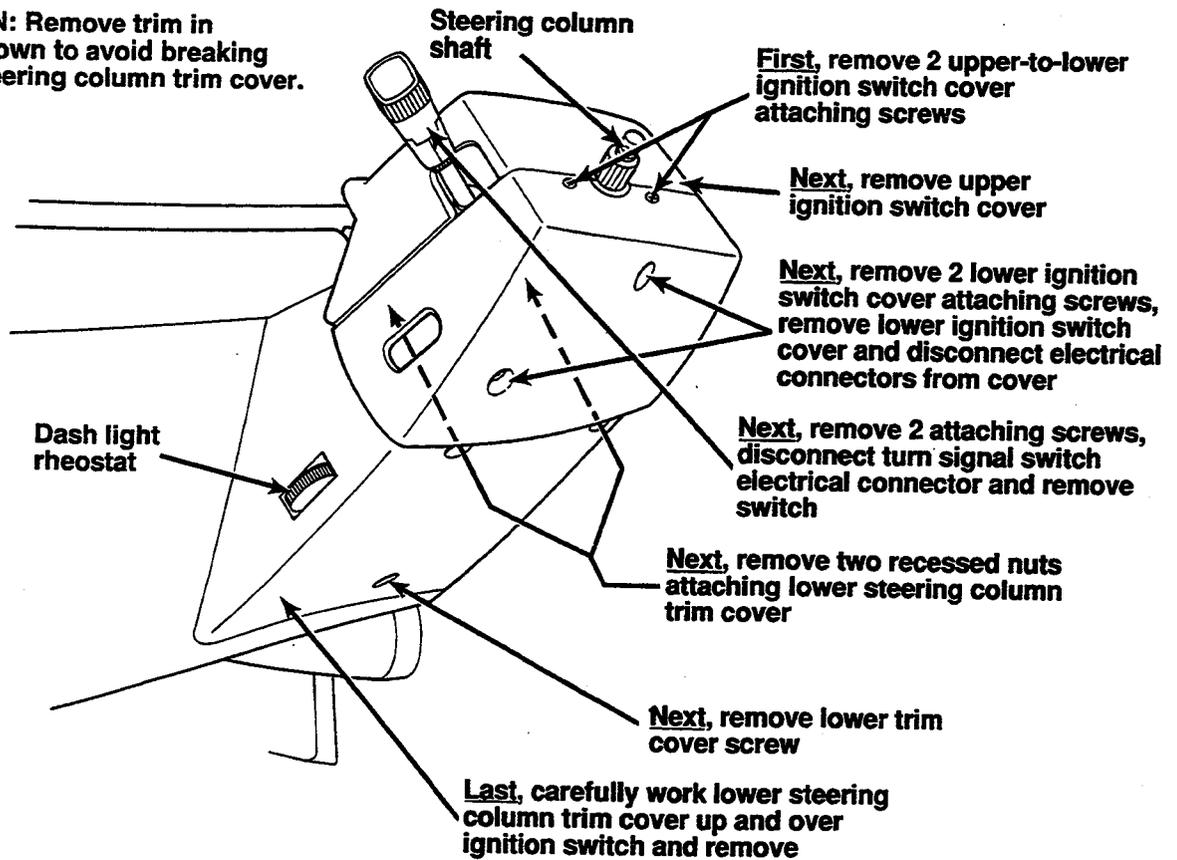
Service Procedure

I. HEATER CORE REPLACEMENT

E. Steering Wheel & Column Disassembly (Continued)

For tilt column vehicles, remove the upper and lower housing covers around the ignition switch and remove the lower steering column trim cover using the sequence shown in Fig. 10b. *Important: To avoid breaking the lower trim cover, remove the trim in the order shown.*

CAUTION: Remove trim in order shown to avoid breaking lower steering column trim cover.



TILT COLUMN

Figure 10b

6. Disconnect the dash light rheostat electrical connector, cruise control command switch wire harness if so equipped, and any other electrical connectors from the lower steering column trim cover.

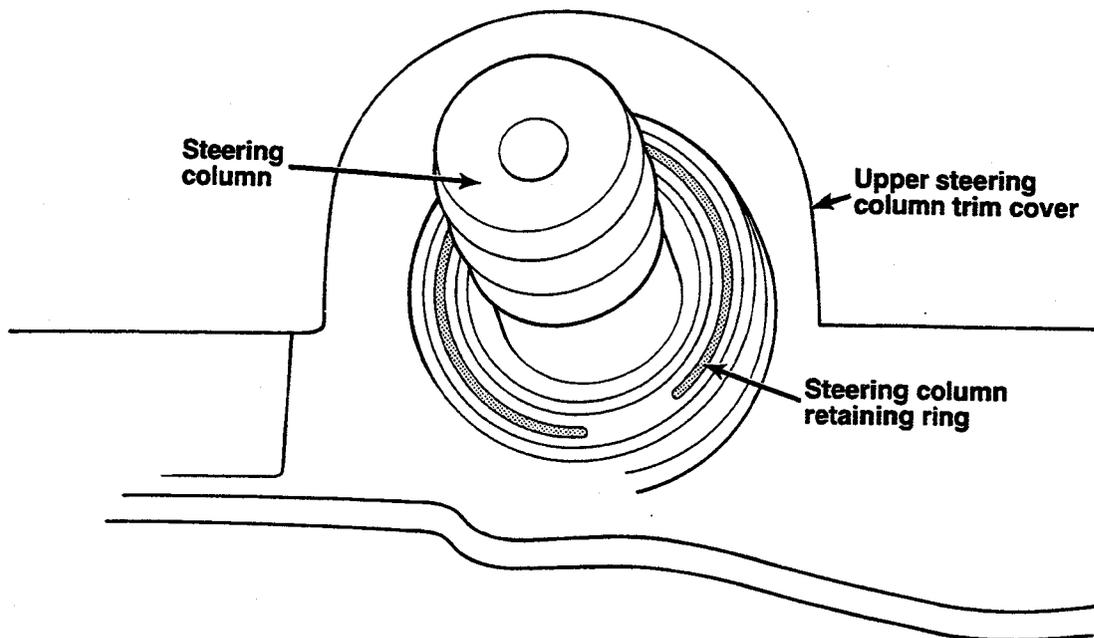
Service Procedure

I. HEATER CORE REPLACEMENT

E. Steering Wheel & Column Disassembly (Continued)

7. For standard column vehicles: Remove the 2 screws attaching the turn signal and headlight switch and move the switch outboard to allow clearance for removal of the steering column shaft retaining ring.

Note: Some vehicles may not have a retaining ring, as the ring was used for assembly purposes only. *If present, remove and discard the retaining ring (Fig. 11).*



STANDARD COLUMN

Figure 11

8. For standard and tilt column vehicles: Remove the left air conditioning duct by sliding it to the right to disengage it from the left side.
9. Remove the steering column intermediate shaft u-joint pinch bolt. Spread the joint for ease of removal and later reassembly.

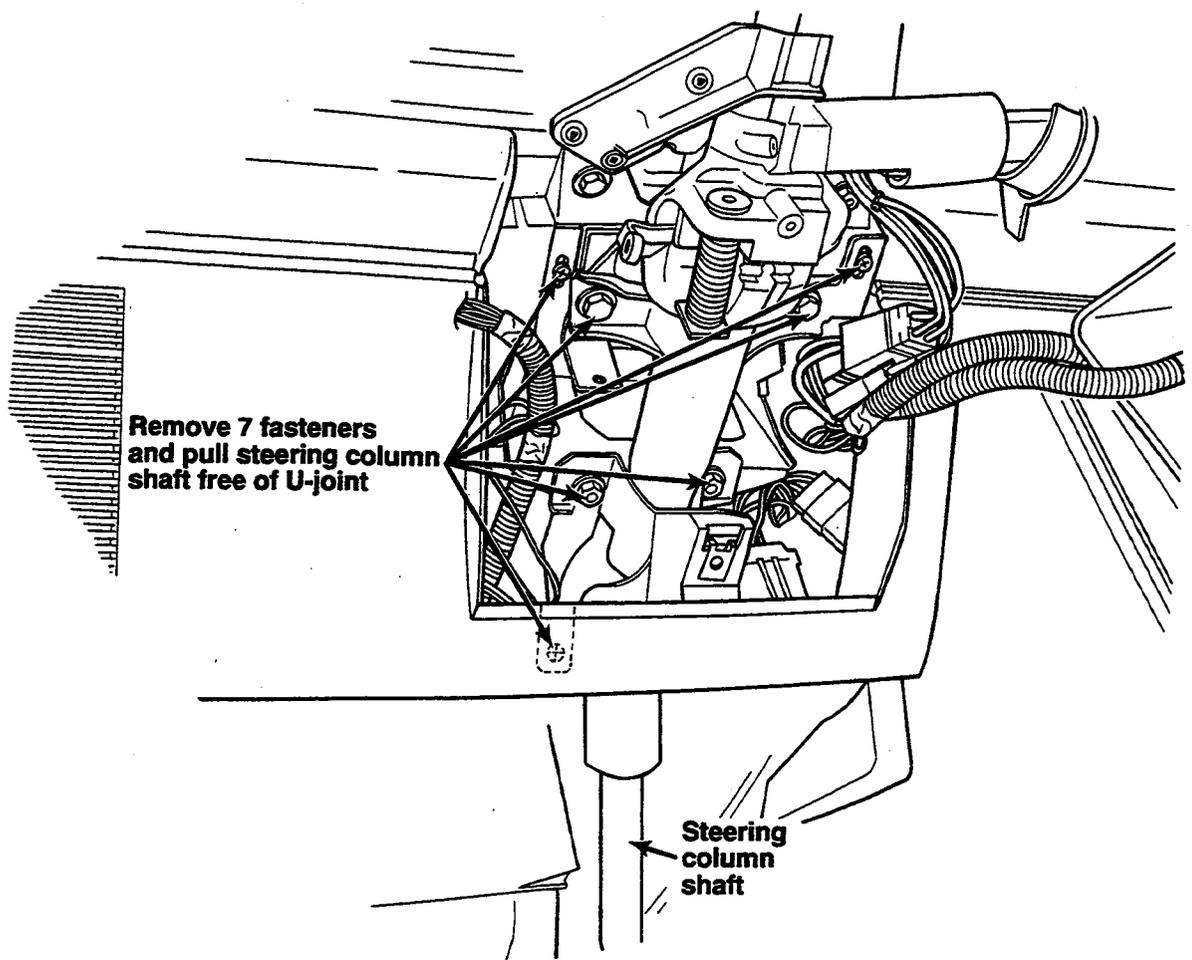
Service Procedure

I. HEATER CORE REPLACEMENT

E. Steering Wheel & Column Disassembly (Continued)

10. For standard column vehicles: Replace the steering wheel and nut onto the shaft to assist in pulling the shaft free from the u-joint. Pull the shaft only far enough to disengage the u-joint. (Note: The ignition switch must be in the ON position to unlock the steering column or the shaft cannot be removed.)

For tilt column vehicles: Remove the three instrument panel-to-steering column attaching screws and the four steering column mounting nuts and bolts and pull the shaft only far enough to disengage the u-joint (Fig. 12).



**TILT COLUMN
Figure 12**

Service Procedure

I. HEATER CORE REPLACEMENT

E. Steering Wheel & Column Disassembly (Continued)

11. For all vehicles: Remove the accelerator pedal mounting bracket bolt from the bulkhead panel (Fig. 13). Leave the cable attached to the pedal and move the assembly away from the heater core.
12. On 1983 and some 1984 automatic transmission vehicles it is also necessary to remove the air conditioning wide open throttle cut out switch. Drill out the two attaching rivets, using a 13/64 drill bit. Disconnect the wiring clip and remove the switch and mounting bracket. Save for reinstallation (Fig. 13).

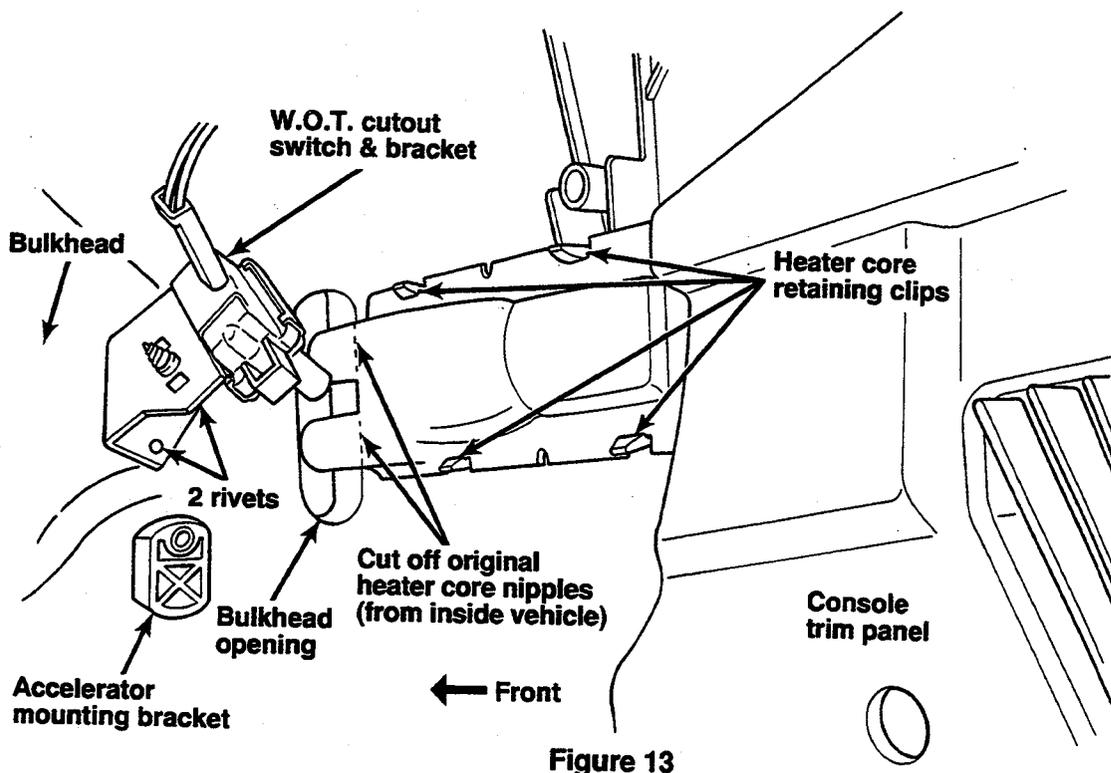


Figure 13

F. Heater Core Removal

1. From within the passenger compartment, cut the heater core nipples off with a hacksaw blade or similar tool. Cut the nipples flush with the heater core to assure room to remove the old core. (Fig. 13). Push the cut-off heater core nipples and bulkhead seal out into the engine compartment and discard the cut off nipples and seal.
2. Disconnect the heater core retaining clips (Fig. 13).

Service Procedure

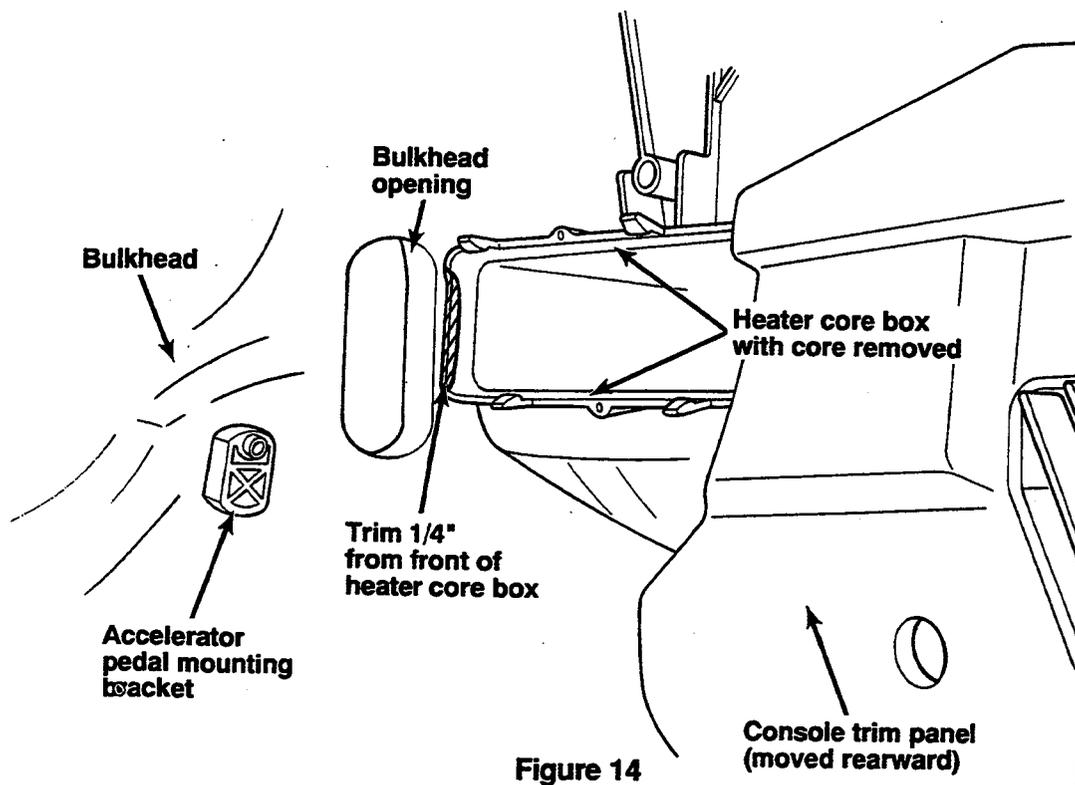
I. HEATER CORE REPLACEMENT

F. Heater Core Removal (Continued)

3. Hold the steering shaft down onto the floor and pull the heater core to the left out of the heater housing. (Note: Care should be used not to break the heater housing).

G. Install Supplied Heater Core

1. Remove approximately 1/4 inch of plastic from the front of the heater core box (Fig. 14). Work from the engine compartment through the bulkhead hole and use a suitable tool such as a half round file. This will allow clearance for the connectors to engage the heater core nipples.



2. Remove the protective shipping caps from the supplied heater core and insert the core into the heater housing.

Service Procedure

I. HEATER CORE REPLACEMENT

G. Install Supplied Heater Core (Continued)

3. Install the supplied retaining plate on the core and secure it to the heater box using the two screws provided (Fig. 15).

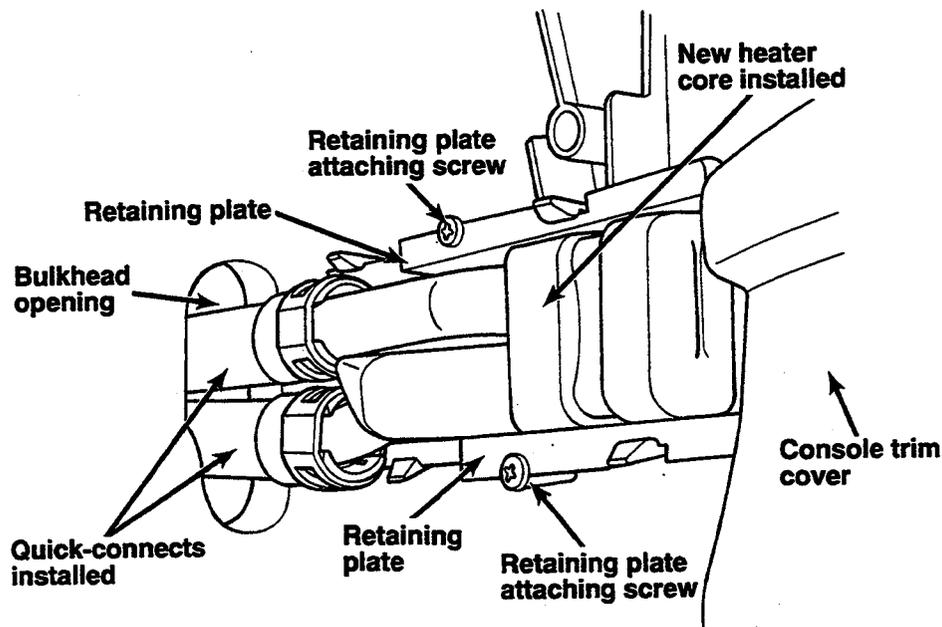


Figure 15

NOTE: For vehicles other than 1983 through 1986 model year with 1.4L engines, see special instructions in Sections II and III of this procedure for installation of the quick-connects and hoses.

For 1983 - 1986 1.4L engine vehicles, proceed with step 4 of this section which follows.

Service Procedure

I. HEATER CORE REPLACEMENT

G. Install Supplied Heater Core -- 1983 - 1986 Vehicles With 1.4L Engine

4. From the engine compartment attach the two supplied quick-connects to the heater core nipples (Figs. 15 and 16). **Note: Be sure that the quick-connects are fully (click) locked on. Pull on each quick-connect after it is attached to ensure proper engagement.**

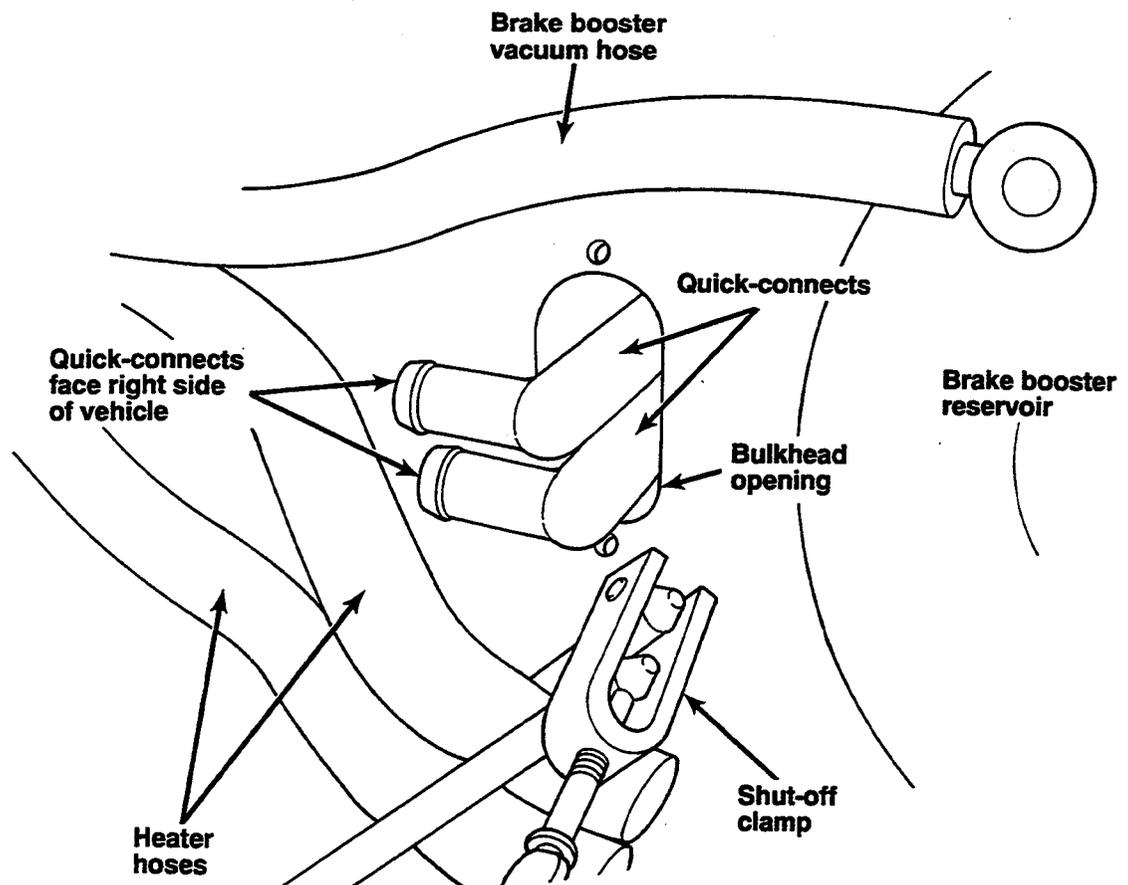


Figure 16

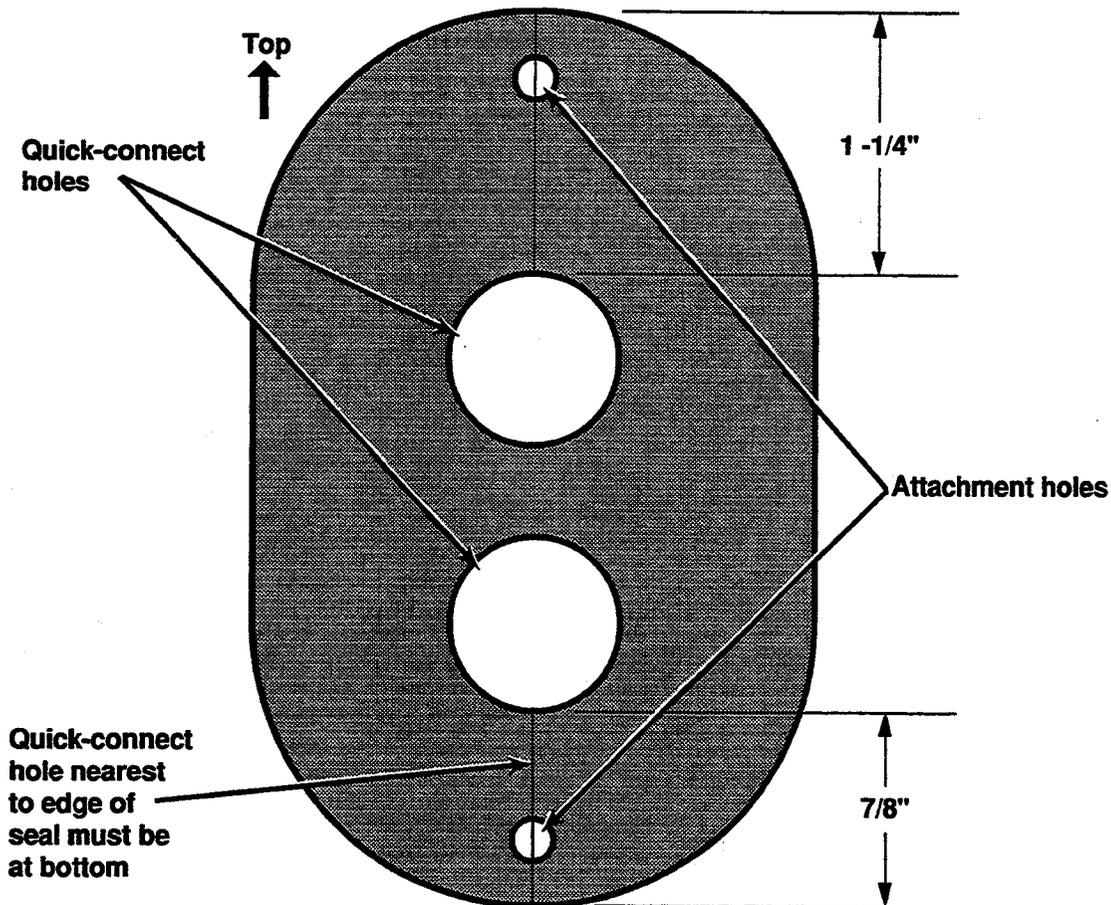
Note: Install the quick-connects to face the right hand (passenger) side of the vehicle in the engine compartment (Fig. 16).

Service Procedure

I. HEATER CORE REPLACEMENT

G. Install Supplied Heater Core -- 1983 - 1986 Vehicles With 1.4L Engine
(Continued)

5. Install the supplied rubber bulkhead seal by working it over and around the bend in the quick-connects. Silicone lubricant will ease installation. Note: The seal will fit only one way. Refer to Fig. 17 for proper seal location on the quick-connects.



BULK HEAD SEAL
Figure 17

6. Reinstall the metal retainer plate over the rubber seal and attach to the bulkhead using the screws provided.
7. Cut off the end of both heater hoses. Note: Remove only the formed bend section from each hose. Otherwise the hoses will be too short.

Service Procedure

I. HEATER CORE REPLACEMENT

G. Install Supplied Heater Core (Continued)

8. Fill the new heater core with coolant and connect hoses as follows.

Note: Using this method will assure proper air bleed in minimum time.

- a. Rotate both heater core quick-connects until the nipples point upward. In the case of repairs with a straight quick-connect (Service Procedure Sections II & III), rotate only the bottom, 90° quick-connect upward.
 - b. Add coolant to the upper nipple, using a long funnel, until the core is full of coolant. (In the case of straight quick-connects, add coolant through the bottom, 90° nipple.)
 - c. When the core is full, use one of the protective caps supplied on the new heater core to cap the upper quick connect to prevent coolant from running out.
 - d. Rotate the lower quick-connect back facing the right side of vehicle, install the lower hose and supplied clamp onto the quick-connect and tighten the clamp to 10 in. lbs. (1 N·m). **Caution: support the quick-connect to prevent excessive movement during the hose installation.**
 - e. If equipped with a 90° upper quick-connect, rotate it back facing the right side of vehicle. Remove the protective cap from the upper quick-connect, install the hose and supplied clamp and tighten the clamp to 10 in. lbs. (1 N·m). **Caution: support the quick-connect to prevent excessive movement during the hose installation.**
 - f. Release the clamps on the heater hoses that were used to prevent coolant loss.
 - g. Check the coolant level in the coolant bottle or remote filler neck and add coolant as necessary.
9. If equipped with an air conditioning wide open throttle cut-out switch, reinstall it at this time using the two supplied pop rivets. Removal of the switch from the bracket will ease assembly. (Note: The wide open throttle switch is used only on 1983 and early 1984 models with automatic transmissions).

Service Procedure

I. HEATER CORE REPLACEMENT

H. Reassemble Steering Column

1. Reinstall the accelerator pedal.
2. Reinstall the steering column upper shaft in the u-joint. Start the pinch bolt but do not tighten. **Note: Ensure that the steering column boot has not been pulled out of position, as it can interfere with the throttle cable if it comes loose and is not properly reinstalled.**
3. For standard column vehicles: Use a seal driver to drive the upper steering shaft bushing into the column. Position the bushing 3/8" down from the top of the steering column tube.

For tilt column vehicles: Position the steering column on the steering column mounting studs. Reinstall and torque the steering column mounting nuts and bolts to 18 ft. lbs. (24 N·m). Reattach the steering column to the instrument panel with the three attaching screws.

4. Reinstall the steering wheel. Properly align the wheel on the shaft with the mark made during disassembly. Torque the steering wheel attaching nut to 33 ft.lbs. (45 N·m). Restake the wheel nut after tightening.
5. For standard column vehicles: Adjust the fore and aft placement of the wheel and shaft so the wheel adequately clears the upper steering column trim cover.
6. For standard and tilt column vehicles: Torque the steering shaft u-joint pinch bolt to 22 ft.lbs. (30 N·m).
7. Reinstall the turn signal/headlight switch.
8. Reconnect the cruise command wire harness connectors, if so equipped.
9. Reconnect the dash light rheostat switch electrical connectors and install the lower steering column trim cover.
10. For tilt column vehicles: Reinstall the upper and lower trim covers around ignition switch, and tighten the two screws. Reinstall the tilt lever.

Service Procedure

I. HEATER CORE REPLACEMENT

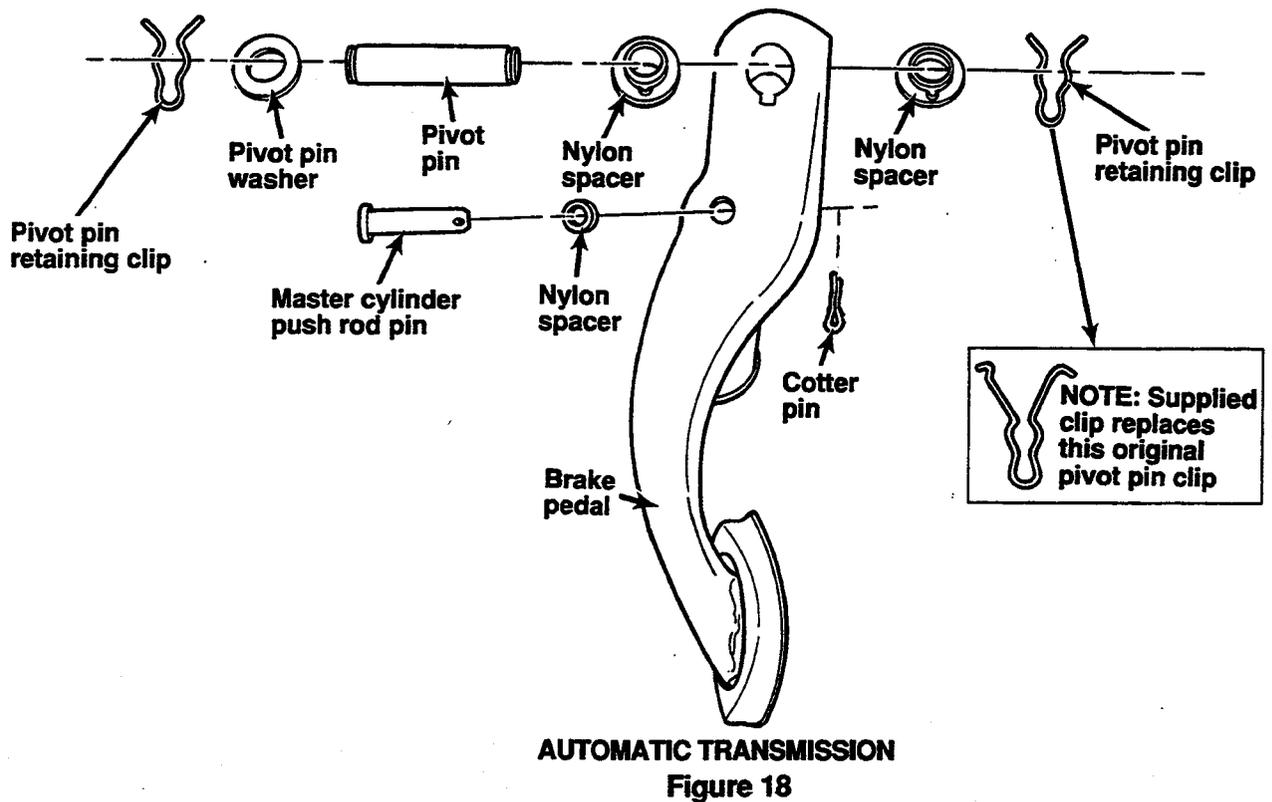
J. Reinstall Brake/Clutch Pedal

1. Reinstall the brake pedal (or brake/clutch pedal) and pivot pin in the mounting bracket and secure the inboard end of the pivot pin with a supplied clip.

Remove and discard the original outboard clip and install a supplied clip on the outboard end of the pivot pin. Be sure that the clips are seated in the grooves on the pivot pin.

See Fig. 18 for proper assembly of the nylon spacers for automatic transmission and Fig. 19 for manual transmission.

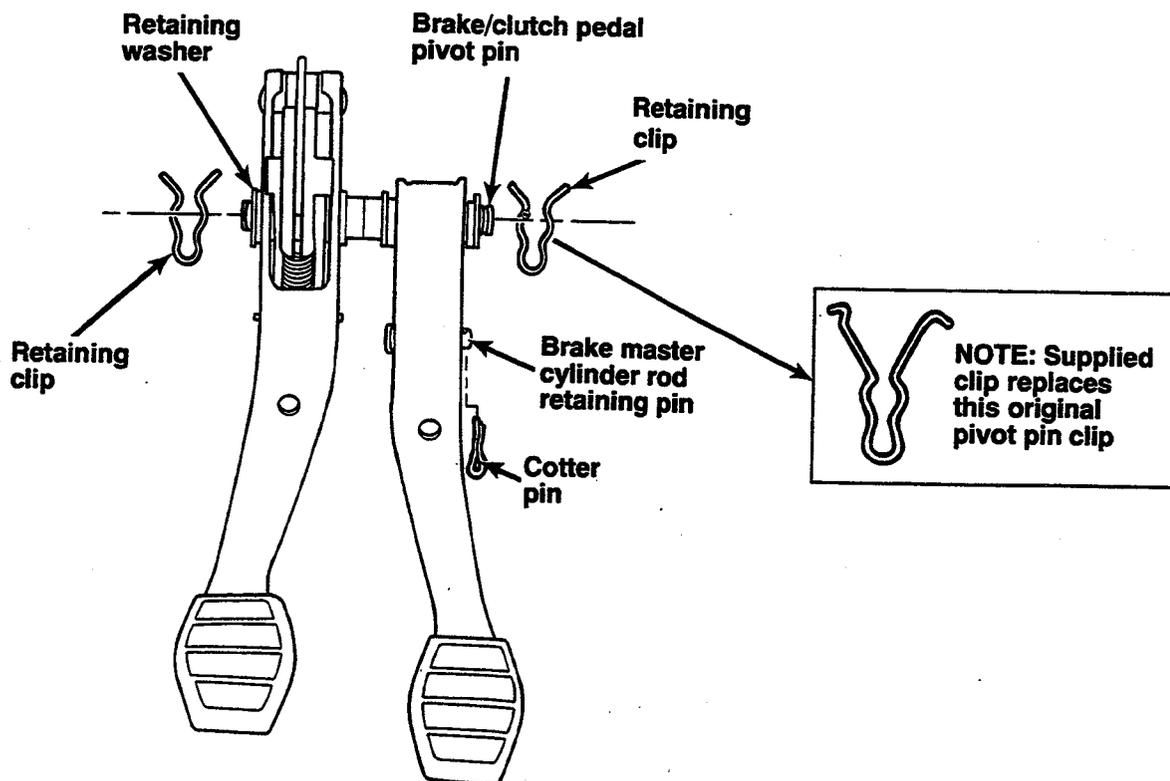
Note: do not remove the pin from the clutch pedal as this will require the clutch adjuster mechanism to be reassembled. If the adjuster mechanism becomes disengaged from the pivot pin, assemble the clutch pedal and install the pivot pin, then reattach the clutch cable.



Service Procedure

I. HEATER CORE REPLACEMENT

J. Reinstall Brake/Clutch Pedal (Continued)



MANUAL TRANSMISSION

Figure 19

K. Final Reassembly

1. Reattach the master cylinder push rod to the brake pedal with the pin and nylon bushing. Use the supplied cotter pin to lock the pin in place.
2. Reinstall the left air conditioning duct.
3. Reinstall the stop lamp switch trim cover.
4. Reinstall the steering wheel trim cover.

Service Procedure

I. HEATER CORE REPLACEMENT

K. Final Reassembly (Continued)

5. Reposition the console to its proper location and install the attaching screws.
6. Reinstall the shift indicator mylar strip and plastic shift lever trim (or shift boot for manual transmissions).
7. Seal the two pop rivets used to hold the air conditioning wide open throttle bracket in position. Use silicone sealer and work from the engine compartment side.
8. With the ignition switch in the "OFF" position, reattach the battery negative cable.
9. Remove the coolant pressure cap. Start the engine and ensure that there is a constant flow of coolant from the bleeder tee into the remote filler neck (1983 and 1984 models) or into the coolant bottle (1985 through 1987 models). **Note:** If no flow occurs, a potential for air lock exists. See Service Procedure Section IV. Add coolant as necessary and replace the pressure cap.
10. Check the heater operation and allow the engine to run until the thermostat opens.
11. Shut off the engine and slowly remove the remote fill or coolant bottle pressure cap and add coolant as necessary.
12. Check the function of electrical components which were previously disconnected.
13. Reset the clock, if equipped.

CAUTION: IF ORIGINAL COOLANT WAS LOST FROM SYSTEM COMPONENTS OTHER THAN THE HEATER CORE, THEN THE ENTIRE SYSTEM MUST BE BLED TO ENSURE THAT ALL AIR IS EXPELLED. SEE SECTION IV OF THIS SERVICE PROCEDURE FOR SYSTEM BLEED PROCEDURES.

FAILURE TO PURGE AIR FROM THE COOLING SYSTEM WILL RESULT IN OVERHEATING AND POSSIBLE ENGINE DAMAGE.

Service Procedure

II. SPECIAL HEATER CORE REPLACEMENT INSTRUCTIONS -- 1985 AND 1986 MODEL YEAR VEHICLES WITH 1.7L ENGINES -- PARTS PACKAGE C3940490

Installation of Heater Core Quick-Connects and Hoses

1. Install the supplied 90° quick-connect on the bottom (inlet) heater core nipple and the straight quick-connect on the top (outlet) heater core nipple (Fig. 20).

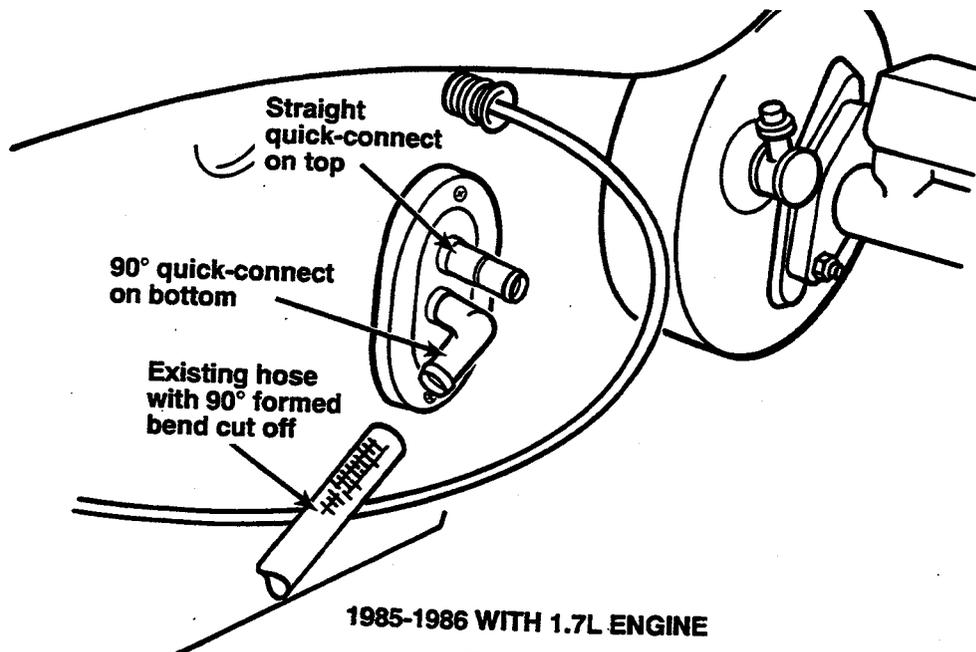


Figure 20

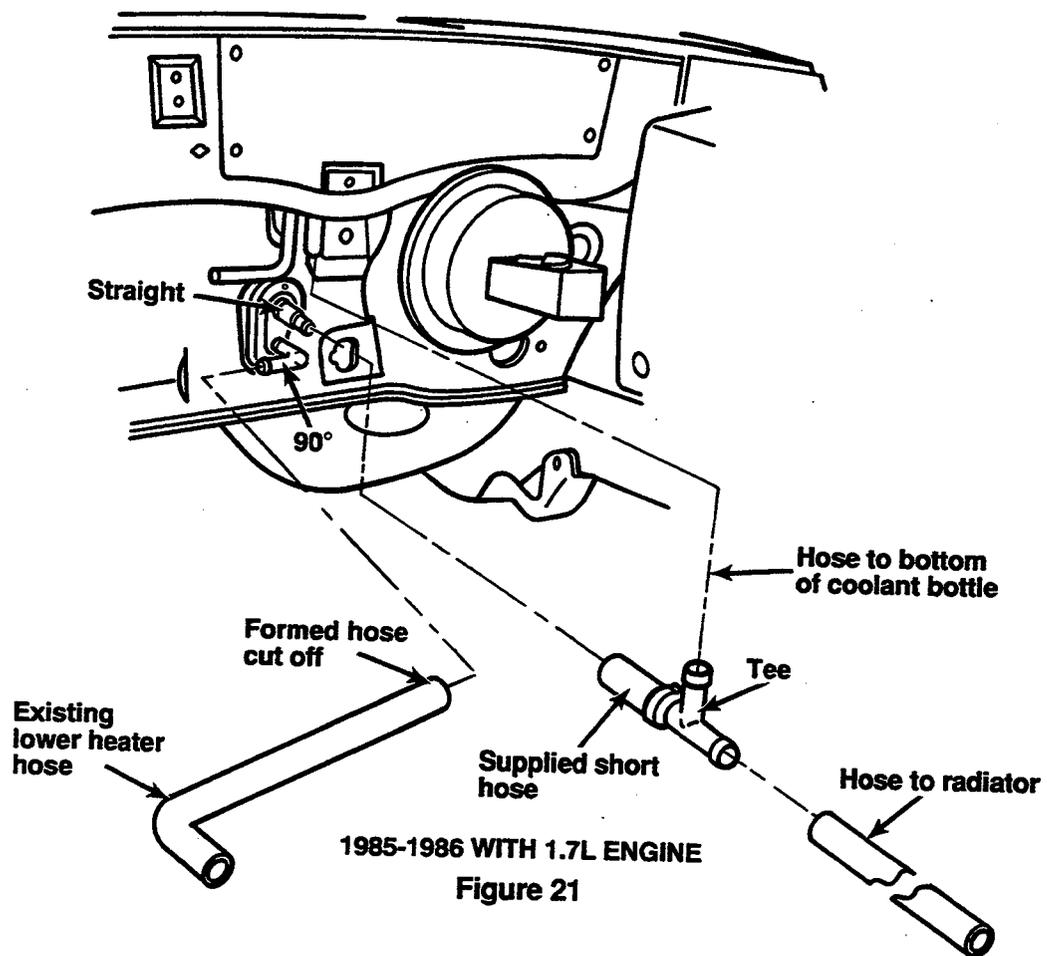
2. Install the supplied rubber bulkhead seal and retainer plate over the quick-connects with the supplied screws.
3. Cut off the formed end of the existing lower heater hose.

Service Procedure

II. SPECIAL HEATER CORE REPLACEMENT INSTRUCTIONS -- 1985 AND 1986 MODEL YEAR VEHICLES WITH 1.7L ENGINES -- PARTS PACKAGE C3940490

Installation of Heater Core Quick-Connects and Hoses (Continued)

4. Remove the clamp and short heater hose from the tee going to the radiator (Fig. 21). Install the supplied short hose on the tee with the supplied clamp. Torque the clamp to 10 in. lbs. (1 N·m).



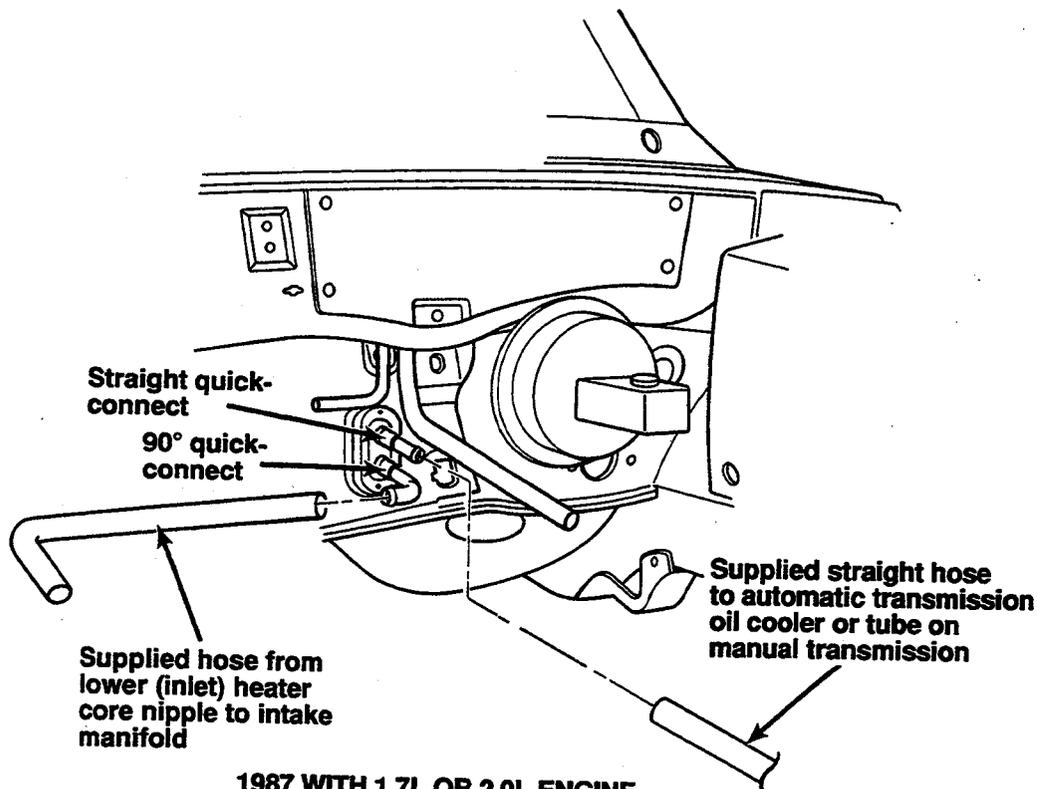
5. Fill the heater core with coolant and install both hoses on the quick-connects as described in Section I.G.8. on Page 21 and continue with the procedure to reassemble interior components of the vehicle.

Service Procedure

III. **SPECIAL HEATER CORE REPLACEMENT INSTRUCTIONS -- ALL 1987 MODEL YEAR VEHICLES -- PARTS PACKAGE C3940496**

Installation of Heater Core Quick-Connects and Hoses

1. Install the 90° quick-connect on the bottom heater core nipple (inlet) and the straight quick connect on the top nipple (outlet) of the heater core.
2. Install the supplied rubber bulkhead seal and retainer plate over the quick-connects with the supplied screws.
3. For vehicles with 1.7L or 2.0L engine: Remove the formed hose attached to the intake manifold nipple and replace it with the supplied formed hose. Install the hose to the manifold with the supplied clamp (Fig. 22a). Torque the clamp to 10 in. lbs. (1 N·m).



1987 WITH 1.7L OR 2.0L ENGINE

Figure 22a

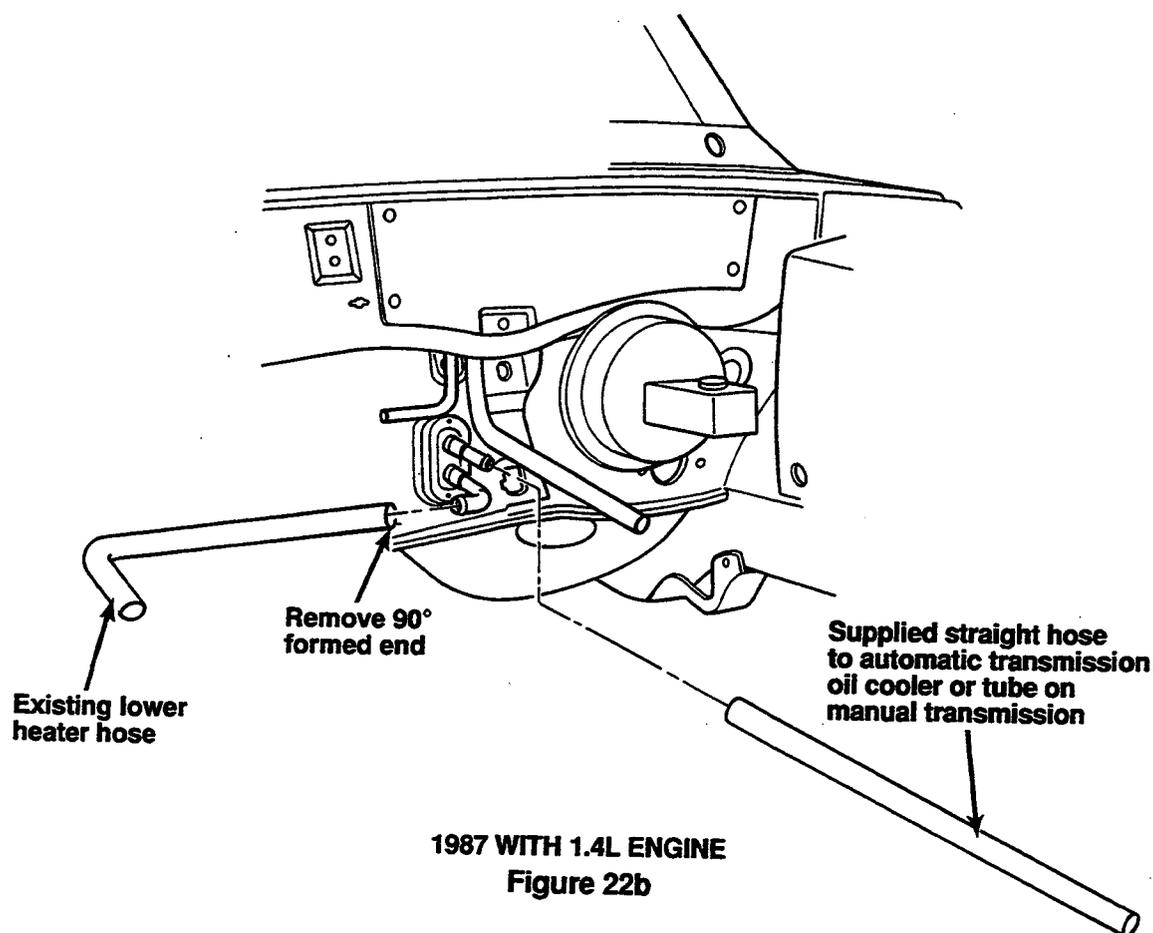
Service Procedure

III. **SPECIAL HEATER CORE REPLACEMENT INSTRUCTIONS -- ALL 1987 MODEL YEAR VEHICLES -- PARTS PACKAGE C3940496**

Installation of Heater Core Quick-Connects and Hoses (Continued)

For vehicles with 1.4L engine: The new formed hose from the parts package is not required and will not fit on the 1.4L engine. For these vehicles, cut off the formed end of the existing lower hose (Fig. 22b).

4. Remove the straight heater hose from the transmission oil cooler for automatic transmissions or the straight tube for manual transmissions. Install the supplied straight hose to the oil cooler (or tube) with the supplied clamp. Torque the clamp to 10 in. lbs. (1 N·m).



5. Fill the heater core with coolant and install both hoses on the quick-connects as described in Section I.G.8. on Page 21 and continue with the procedure to reassemble interior components of the vehicle.

Service Procedure

IV. COOLING SYSTEM BLEED PROCEDURE IF EXCESS COOLANT LOST

IF EXCESSIVE COOLANT WAS LOST FROM THE SYSTEM (OTHER THAN THE HEATER CORE), THE ENTIRE SYSTEM MUST BE BLED AS FOLLOWS TO ENSURE THAT ALL AIR IS EXPELLED.

1.4 Liter Engine Vehicles:

1. Remove the hose from the bleeder tee and ensure that the bleed orifice is clear to bleed air. (Use wire or other device to ensure that the bleeder tee is not plugged.)
2. Remove the thermostat, located in the upper radiator hose next to the water pump. The thermostat is held in position by the second hose clamp.
3. Check the thermostat check ball to assure that this ball is free and not stuck in the closed position. Reinstall the thermostat ensuring that the check valve is located at the top of the radiator hose.
4. Fill the system through the remote filler neck assembly (1983 and 1984 model years) or through the remote fill bottle (1985-1987 model years). Caution: do not remove the radiator cap or add coolant through the radiator cap.

Important: fill the system slowly, allowing air to escape from the orifice in the bleed tee. Fill until air stops bubbling through the tee and a steady stream of coolant is seen. To avoid trapping additional air while filling the system, use caution not to allow the remote fill or coolant bottle to become empty.)

5. During the fill process, gently compress the top radiator hose several times to remove as much air as possible from the hose.
6. Reattach the hose to the bleeder tee and attach the clamp.
7. Fill the remote filler neck or coolant bottle to the full mark.
8. Start the engine and observe that a stream of coolant is flowing from the bleeder hose, then install the pressure cap.
9. Allow the engine to idle until the thermostat opens. (This can be determined by the top heater hose or radiator core getting hot.)

Service Procedure

IV. COOLING SYSTEM BLEED PROCEDURE IF EXCESS COOLANT LOST

1.4 Liter Engine Vehicles (Continued)

10. Shut off the engine and slowly remove the pressure cap and add coolant as necessary. Fill the remote systems to the top of the remote filler or fill the coolant bottle until the coolant covers the small white post located directly below the opening for the pressure cap.

1.7 or 2.0 Liter Engine Vehicles:

1. Open the bleed screw located on the upper left side of the radiator (Fig. 23).

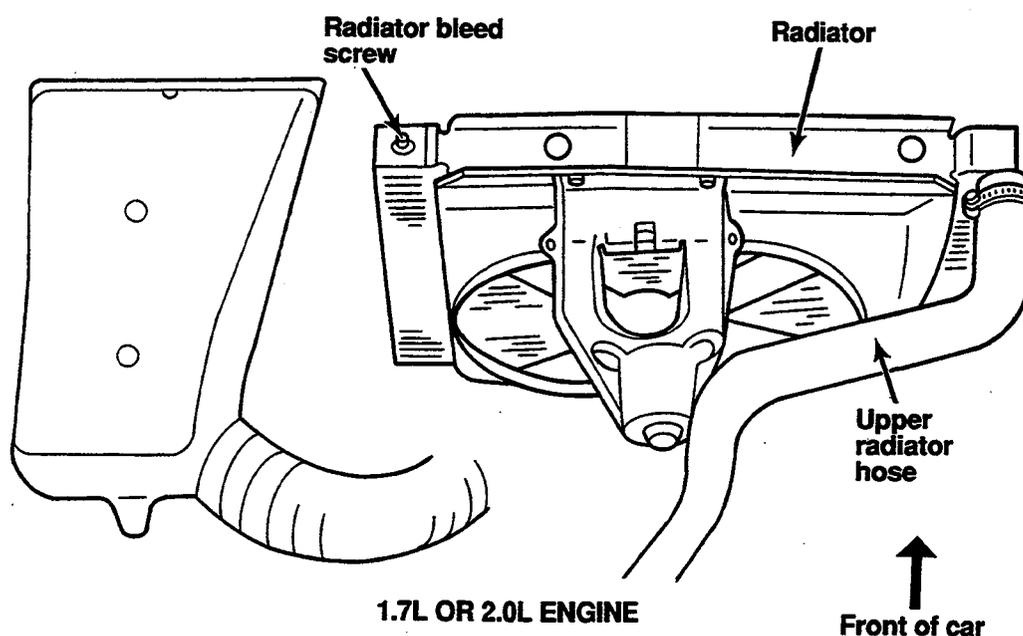


Figure 23

2. Fill the system through the coolant bottle, located in the cowl on the right side of the vehicle.
3. Continue to fill the system until coolant flows from the radiator bleed screw. (Fill the system slowly to allow air to escape).
4. Tighten the bleed screw.

Service Procedure

IV. COOLING SYSTEM BLEED PROCEDURE IF EXCESS COOLANT LOST

1.7 or 2.0 Liter Engine Vehicles (Continued)

5. Fill the coolant bottle and start the engine. Add coolant if necessary. Note the flow of coolant from the bleeder tee to the coolant bottle. If no flow exists, shut off the engine and clean the bleeder tee located in the cylinder head by the thermostat housing. (The small hose is the bleed hose).
6. Replace the pressure cap.
7. Start the engine and allow it to run until the thermostat opens. Once again open the radiator bleeder to ensure that all air is out of the system. Continue to allow the engine to run for several minutes.
8. Shut off the engine and slowly remove the pressure cap from the coolant bottle.
9. Check the coolant bottle and add coolant if needed to fill to the full mark. The full mark is a small post located directly below the opening for the pressure cap, inside the bottle. Add coolant until the post is just covered by coolant. Reinstall the pressure cap.

INFORMATION: QUICK-CONNECT REMOVAL PROCEDURE

If it becomes necessary to remove a quick-connect, first pinch both sides of the exposed white locking ring until the leading edge of the tabs can slide under the edge of the quick-connect body. Then push the quick-connect off the heater core nipple. Finally, remove the white nylon locking ring from the nipple and reinsert it in the quick-connect body.

V. INSPECT/REPLACE COOLANT BOTTLE CAP -- ALL 1985, 1986 AND 1987 VEHICLES

All 1985 - 1987 vehicles were previously recalled to replace the engine coolant bottle cap to ensure proper steam venting if the engine overheats, (Safety Recall #425, July, 1988).

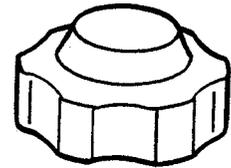
Inspect each 1985, 1986 and 1987 model to ensure that the revised bottle cap is present, using the following procedure:

1. Locate the engine coolant bottle in the right (passenger side) rear corner of the engine compartment.

Service Procedure

**V. INSPECT/REPLACE COOLANT BOTTLE CAP --
ALL 1985, 1986 AND 1987 VEHICLES (Continued)**

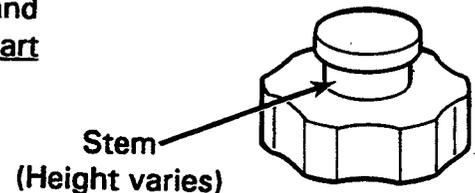
2. Inspect the coolant bottle cap:
- If a black, domed cap is present (Fig. 24), it is the revised version and it does not need to be replaced.



**Black domed cap
GOOD**

Figure 24

- If a non-black cap with a raised stem is present (Fig. 25), it is an original cap and must be replaced. Install revised cap, Part Number 4546111.



**Raised stem cap
(Not black)
REPLACE**

Figure 25

Completion Reporting and Reimbursement

Claims for vehicles which have been serviced must be submitted on the DIAL System. Claims submitted will be used by Chrysler to record recall service completions and provide dealer payments.

Use the following labor operation number and time allowance:

	Labor Operation Number	Time Allowance
Remove and replace heater core	24541182	1.9 Hours

Important: *If it is necessary to replace a coolant system cap, submit a separate claim using the original recall #425 Labor Operation Number 07425182, Time Allowance 0.2 Hour. Destroy the removed original cap. Refer to the dealer recall instruction letter #425 of July, 1988 for further details if required.*

**Safety Recall #541 -- Heater Core
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Completion Reporting and Reimbursement (Continued)

Add the cost of the recall parts package plus applicable dealer allowance to your claim.

Note: See Warranty Policy and Procedure Manual, Chapter 6, Subsection H for complete recall claim processing instructions.

Parts Return

Not required.

Vehicle Not Available

If a vehicle is not available for service for a known reason, let us know by filling out the pre-addressed Vehicle Disposition Form portion of the Owner Recall Notification Form or describe the reason on a postcard and mail to:

Chrysler Corporation 415-03-18
Recall Coordination
P.O. Box 1919
Detroit, Michigan 48231-9986

Following the above procedures will expedite the processing of your claim.

If you have any questions or need assistance in completing this action, please contact your Zone Service Office.

Service and Parts Operations
Chrysler Corporation

**FOLLOW-UP NOTIFICATION -- FOR YOUR PERSONAL
SAFETY, CHRYSLER URGES YOU TO ARRANGE FOR
THIS SERVICE IMMEDIATELY**



Chrysler Corporation

**SAFETY RECALL -- HEATER CORE
CONTACT YOUR JEEP/EAGLE DEALER**

Dear Renault Alliance or Encore Vehicle Owner:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act.

Chrysler Corporation has determined that a defect which relates to motor vehicle safety exists in 1983 through 1987 model Renault Alliance and Encore vehicles. The heater core, part of the vehicle's heating system, may fail and allow hot engine cooling system fluid and steam to enter the car passenger compartment. To correct the condition, the heater core must be replaced.

Your Alliance or Encore, identified on the enclosed form, requires heater core replacement service. We ask that you arrange for this service by your Jeep/Eagle dealer without delay. The service and required parts as described in this letter will be provided free of charge.

The heater core is located in the center console. It could fail without prior warning allowing hot fluid to spray on the driver's legs, possibly causing severe burn injury. Also, steam could enter and fill the passenger compartment, causing loss of road visibility and the potential for an accident.

Replacement of the heater core will take about two hours to complete. However, additional time may be required depending on how dealer appointments are scheduled and processed. To obtain this free service:

- Contact your Jeep/Eagle dealer as soon as possible to schedule an appointment for the service.
- Take the enclosed Owner Recall Incentive Claim Form with you at the time of your appointment. The form identifies the vehicle and the service that is required.

If you have a question about this recall or have any problem obtaining the needed service, please contact Chrysler by the following special toll free telephone number: **1-800-262-2607**. *You may call Monday through Friday between the hours of 9:00 AM and 5:00 PM, Eastern Time.*

We regret any inconvenience which this action may cause you. However, we are concerned about your safety. If your dealer fails or is unable to remedy this defect without charge and within a reasonable time, you may submit a written complaint to the Administrator, National Highway Traffic Safety Administration, 400 Seventh Street, S.W., Washington, D.C. 20590, or call the Toll Free Auto Safety Hotline at 1-800-424-9393. (Washington D.C. area residents may call 366-0123.)

Thank you for your attention to this important matter.

Customer Services Field Operations
Chrysler Corporation

*Buckle up
for Safety* 

January 30, 1995

Dear Renault Alliance/Encore Owner,

The enclosed Recall Notification Letter explains a safety recall. It is very important that you have this recall performed on your vehicle.

As shown on the enclosed claim form, Chrysler Corporation records indicate that you are the current owner of a Renault Alliance or Renault Encore vehicle for the model years 1983 through 1987, for which Recall 541 has not yet been completed.

In an effort to ensure your safety, Chrysler Corporation urges you to complete Recall 541. This service is free of charge. In addition, Chrysler Corporation is willing to send you \$150.00, if Recall 541 (heater core replacement) is completed between January 30, 1995 and December 31, 1995. This offer expires December 31, 1995.

To qualify for the \$150 cash allowance, you must: 1) have Recall 541 (heater core replacement) completed at an authorized Chrysler Corporation Jeep®/Eagle dealer and 2) submit the enclosed claim form (signed and completed) with requested documentation to Program Headquarters.

Chrysler Corporation will assist an owner in any reasonable manner possible to bring the vehicle to the dealership. If you have any questions or if you cannot have the Recall 541 performed for any reason, please call Program Headquarters at 1-800-262-2607. (Weekdays 9:00 a.m. - 5:00 p.m. ET). An operator will assist you.

For your personal safety, Chrysler Corporation urges you to take advantage of this program immediately.

Sincerely,

Chrysler Corporation