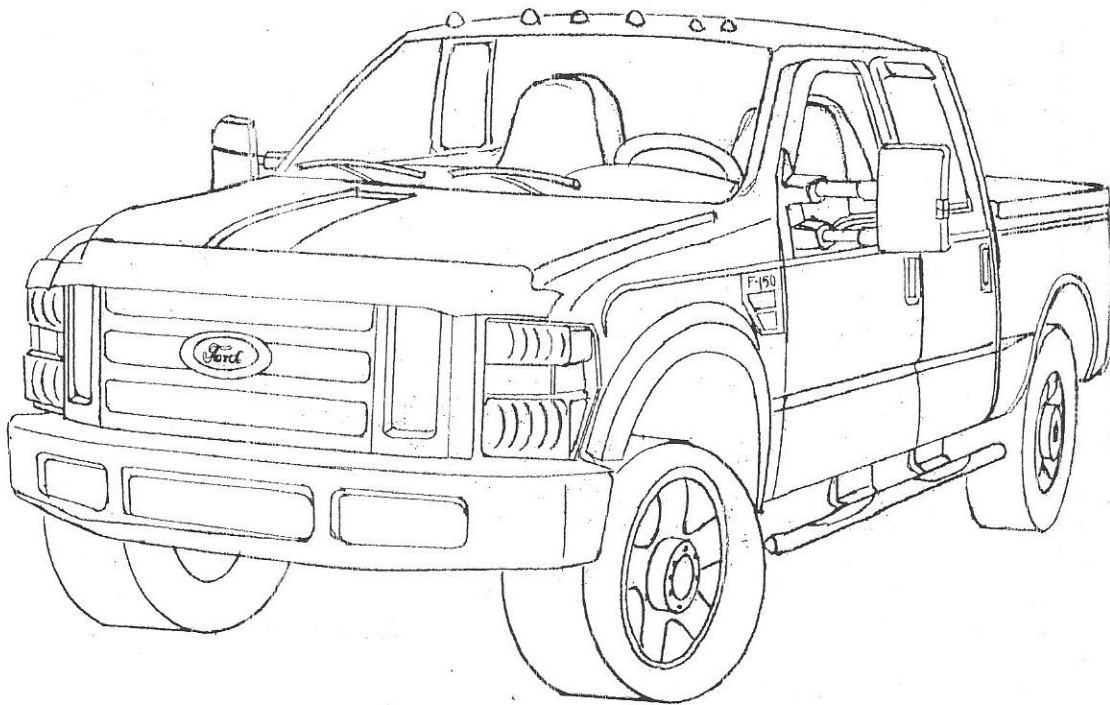


ICE  
Auto Air  
F 250-350



MODELS: 2008-09 FORD F 250-350 SUPER DUTY  
5.4 AND 6.8 GAS ENGINES

REMARKS:

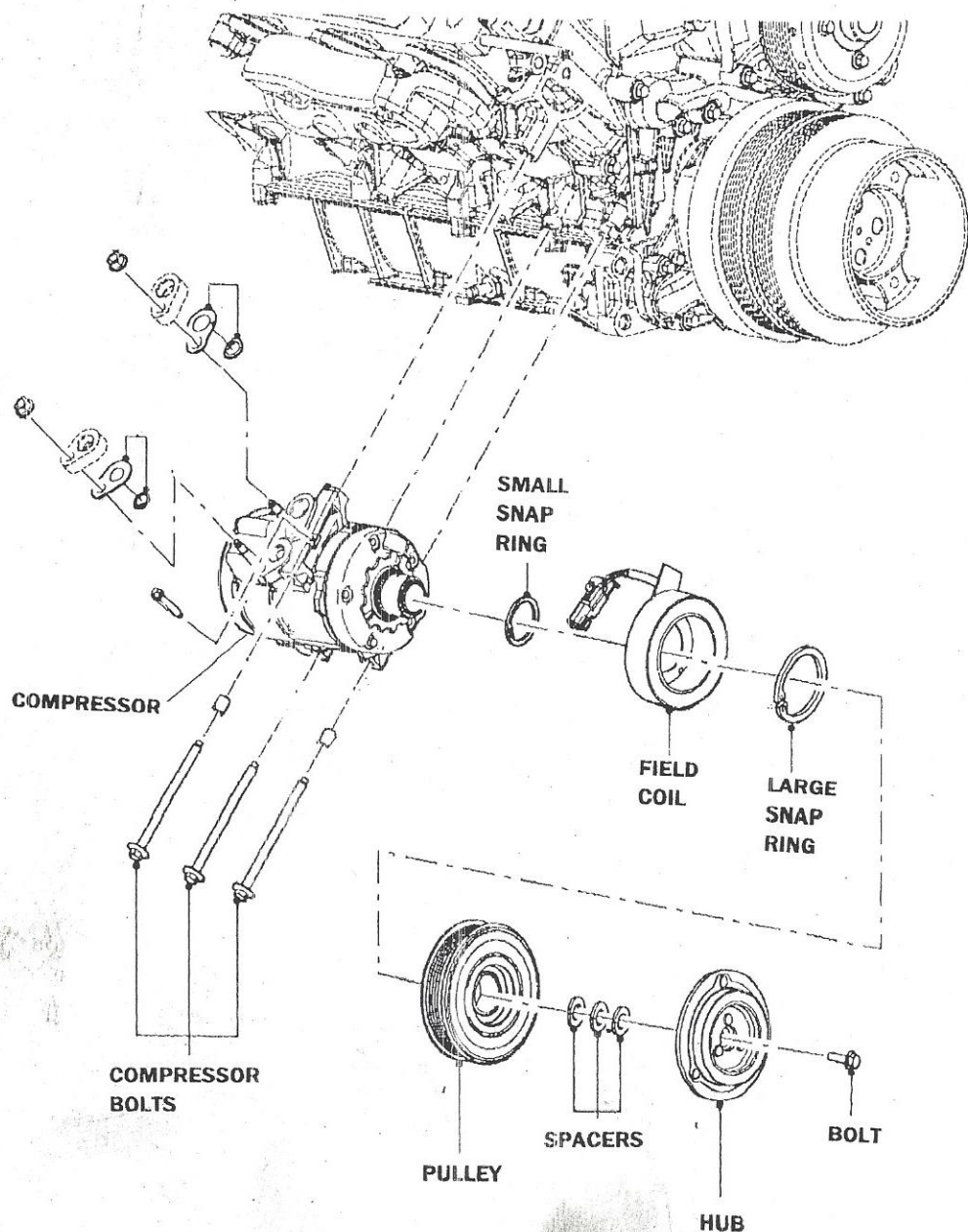
**SUPPLEMENT**  
**2008-09 FOR F 250-350 SUPER DUTY**  
**5.4L AND 6.8L GAS ENGINE**

**On some 2008-09 models the wiring for the compressor and cycling switch connectors are not on the vehicle. Order wire harness kit #9100105. Simply remove by disconnecting the existing OEM harness at the OEM gray 8-pin hardshell connector and the three connections at the alternator. Discard this wire harness. Now, install and connect the provided wire harness in the same manner as the old one was removed. Connect the A/C black 4-pin connector to the hose high pressure switch, and connect the A/C black 2-pin connector to the compressor.**

**SUPPLEMENT**  
**2007-2008 FORD SUPER DUTY**  
**WITH 5.4L AND 6.8L GAS ENGINES**

1. Assemble the clutch coil, pulley and hub to the compressor as shown in the Figure 1 illustration below.
2. Now attach the A/C compressor clutch assembly to the engine with the three provided mounting bolts.

**NOTE:** There may be occasions where the clutch coil, pulley and hub may already be assembled to the compressor.





6. Remove the 2 floor console front bolts (Figure 4).
7. Remove the front floor console. NOTE: If equipped disconnect the electrical connectors.)

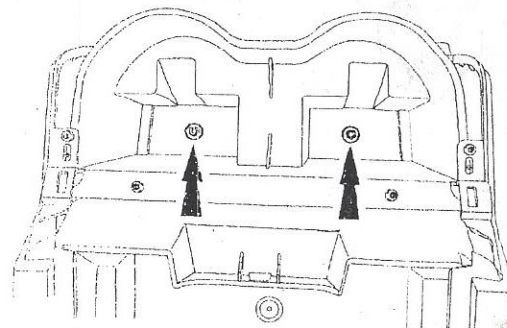


FIGURE 4

# **INSTRUMENT PANEL (IP) REMOVAL (EXPLODED VIEW FIGURE 5)**

- A. (DS) IP side trim panel.
- B. (PS) IP side trim panel.
- C. IP wire harness
- D. Lower IP center support bolt.
- E. (DS) IP upper cowl bolt cover.
- F. (PS) IP upper cowl bolt cover.
- G. IP upper cowl bolts (three (3) required).
- H. IP side bolt cover.
- I. IP side bolt.
- J. IP bolts (five (5) required).
- K. Steer column opening trim panel.
- L. IP cluster finish panel (four (4) screws).
- M. Upper IP center finish panel screw cover.
- N. Upper IP center finish panel screw cover.
- O. Upper IP center panel screw (two (2) required).
- P. Upper IP center finish panel.
- Q. Lower IP center finish panel (five (5) screws, two behind cup holder).

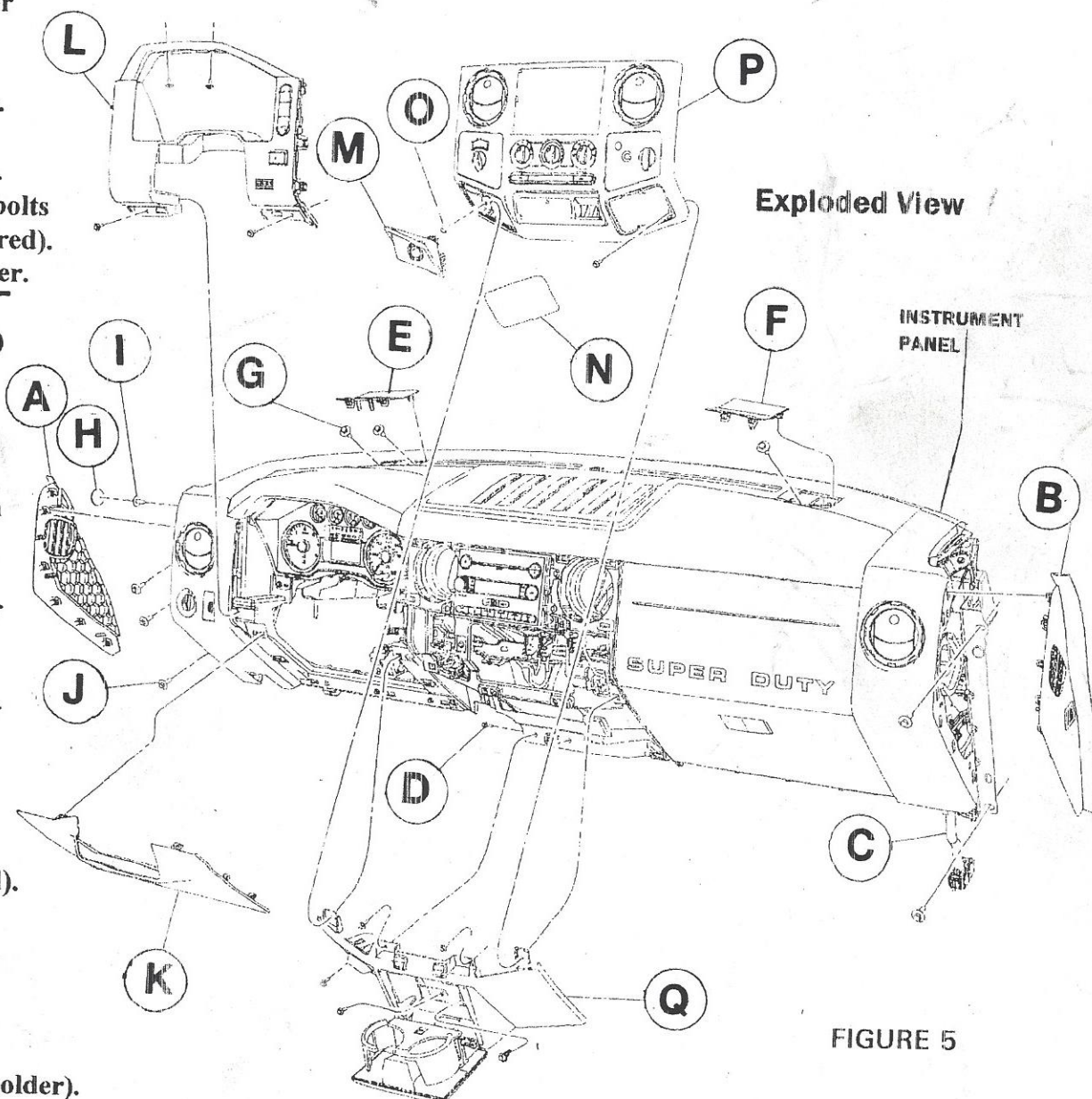


FIGURE 5

## ALL VEHICLES

1. Starting with the front wheels in the straight-ahead position, rotate the steering wheel 180 degrees.
2. Remove and discard the upper steering column shaft-to-steering column bolt (Figure 6). There is "no" bolt provided in this A/C kit, must be acquired by A/C installer.
3. Rotate the steering wheel until the front wheels are in the straight-ahead position. Remove the ignition key.
4. **CAUTION:** Do not allow the steering column shaft to rotate while the intermediate shaft is disconnected or damage to the clock spring can result. If there is evidence that the shaft has rotated, the clockspring must be removed and recentered.

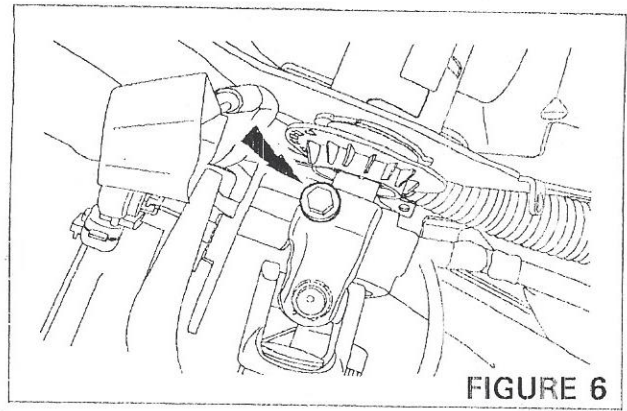


FIGURE 6

**NOTE:** Detach the upper steering column shaft from the steering column.

## VEHICLES WITH A MANUAL TRANSMISSION

5. Remove the shift lever and boot.

## ALL VEHICLES

6. Remove the RH and LH A-pillar trim panels and the RH and LH lower cowl trim panels.
7. Position aside the RH and LH front door weatherstrips.
8. Remove the RH and LH instrument panel side trim panels.
9. Remove the parking brake release handle bolt and position aside the parking brake release handle.
10. Remove the steering column opening trim panel. **NOTE:** Pull the steering column opening trim panel outward to release the steering column opening trim panel retaining clips.

## VEHICLES WITH AN AUTOMATIC TRANSMISSION

11. Remove the selector lever cable from the steering column: (Figure 7)
  - A. Disconnect the selector lever cable from the steering column selector lever.
  - B. Remove the selector lever cable from the steering column bracket.

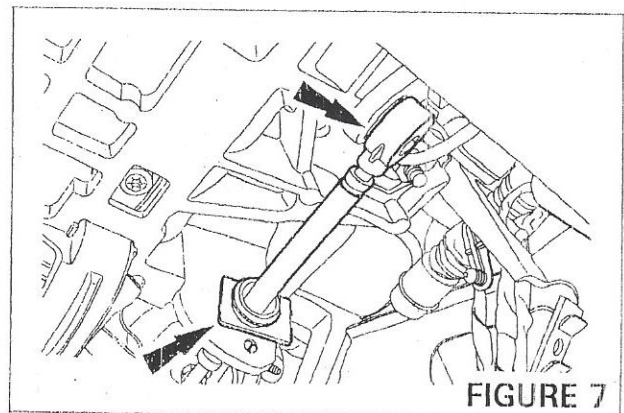
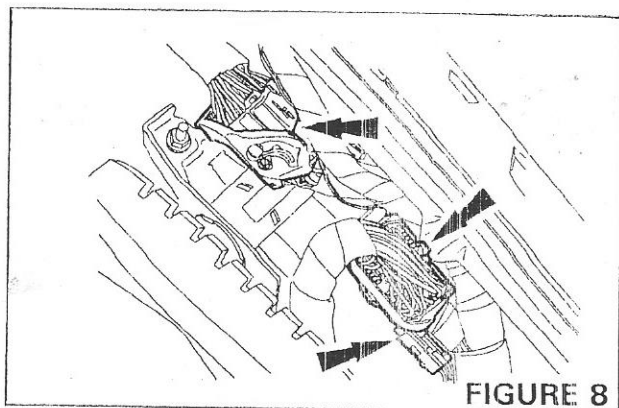


FIGURE 7

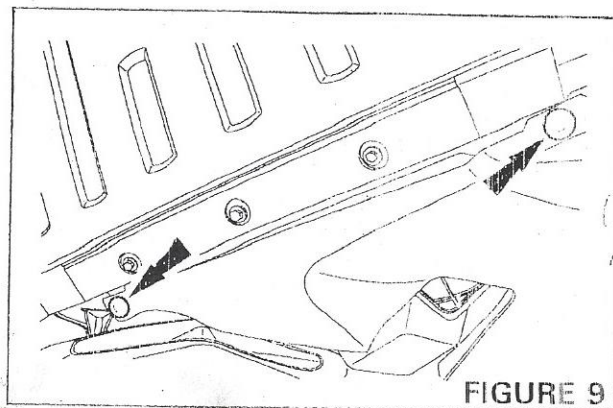


## ALL VEHICLES

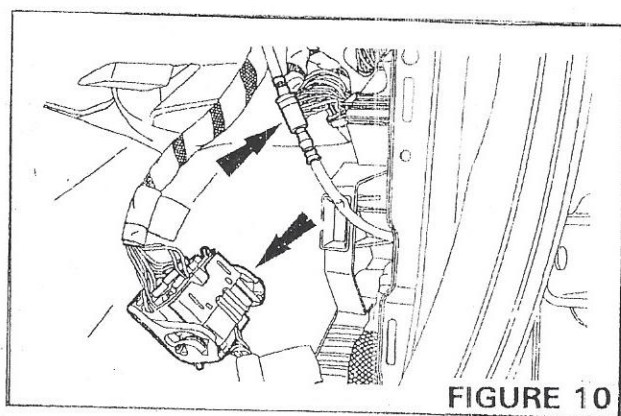
12. Disconnect the 3 wiring harness electrical connectors located under the steering column opening panel (Figure 8).



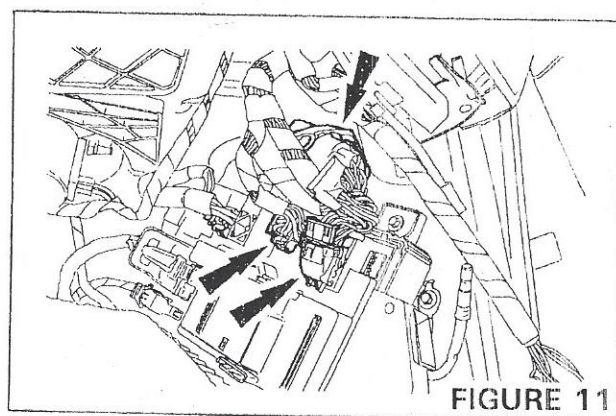
13. Remove the RH lower insulator panel (Figure 9).  
**NOTE:** Remove the 2 pushpin retainers.



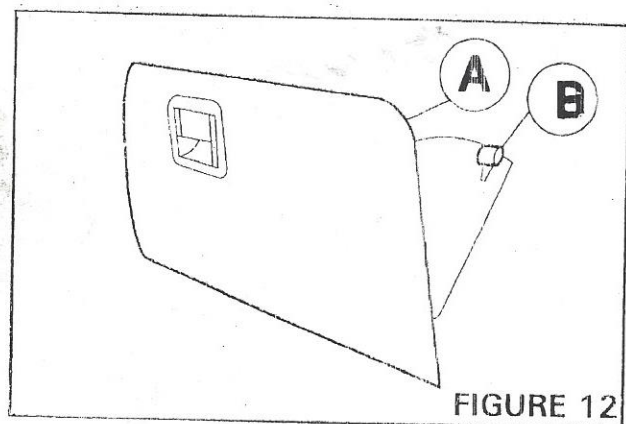
14. Disconnect the antenna cable and the bulkhead electrical connector (Figure 10).



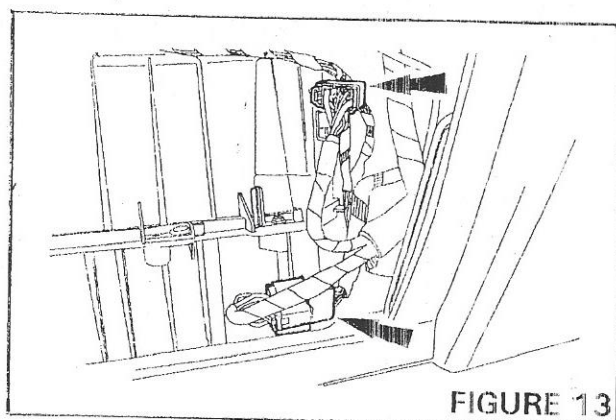
15. Disconnect the bulkhead electrical connector and the 2 connectors from the smart junction box (SJB) (Figure 11).



16. Lower the glove compartment (Figure 12).  
A. Open the glove compartment.  
B. Depress the glove compartment stop and lower the glove compartment.



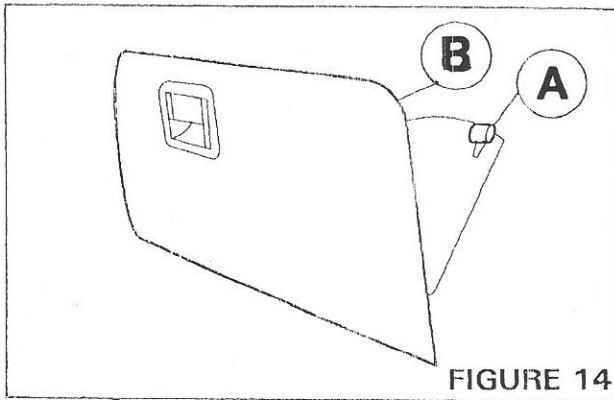
17. Disconnect the 2 electrical connectors that are attached to the plenum chamber.



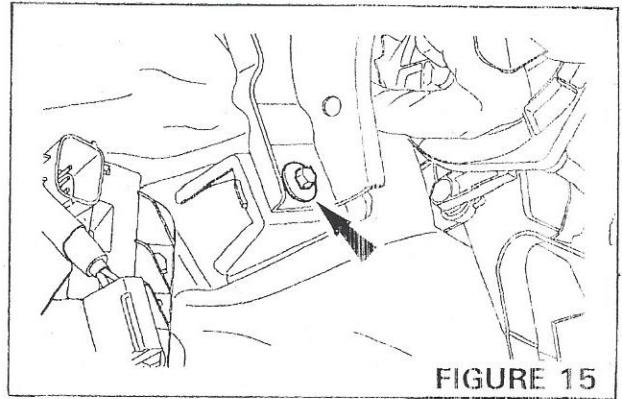
18. Close the glove compartment (Figure 14).

A. Depress the glove compartment stop and raise the glove compartment.

B. Close the glove compartment.



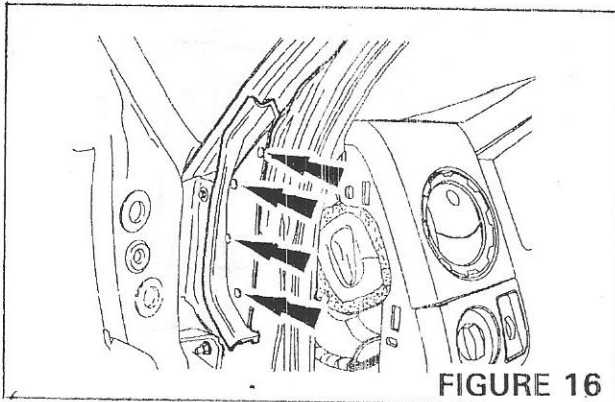
19. Remove the lower instrument panel center support bolt (Figure 15).



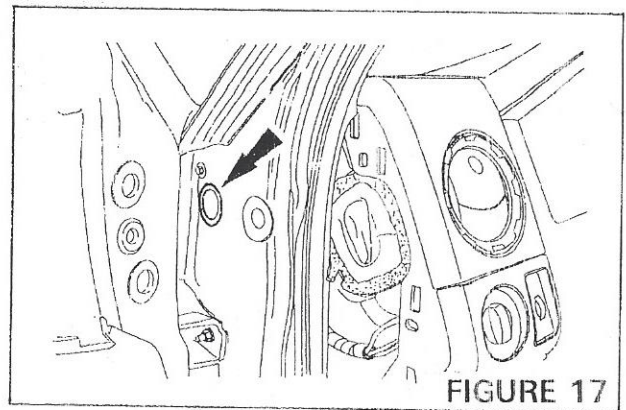
20. Remove the instrument panel upper cowl bolt covers.

21. Remove the 3 instrument panel upper cowl bolts.

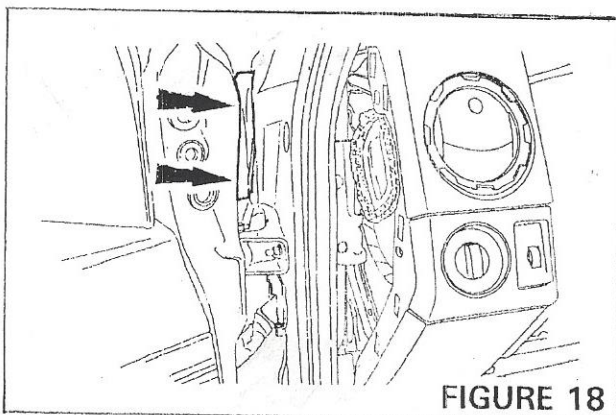
22. Remove the LH door weather shield (Figure 16).  
NOTE: Remove the 4 LH door weather shield pin-type retainers.



23. Remove the LH instruments panel side bolt cover.



24. CAUTION: Place tape on the LH front door as shown to avoid damage to the paint. Place tape on the LH front door.



25. Remove the LH instrument panel side bolt.

26. Remove the RH and LH instrument panel bolts.

27. CAUTION: To avoid damage to the instrument panel, an assistant is required when carrying out this step. NOTE: Make sure that all electrical connectors and wiring are not hindered before removing the instrument panel.

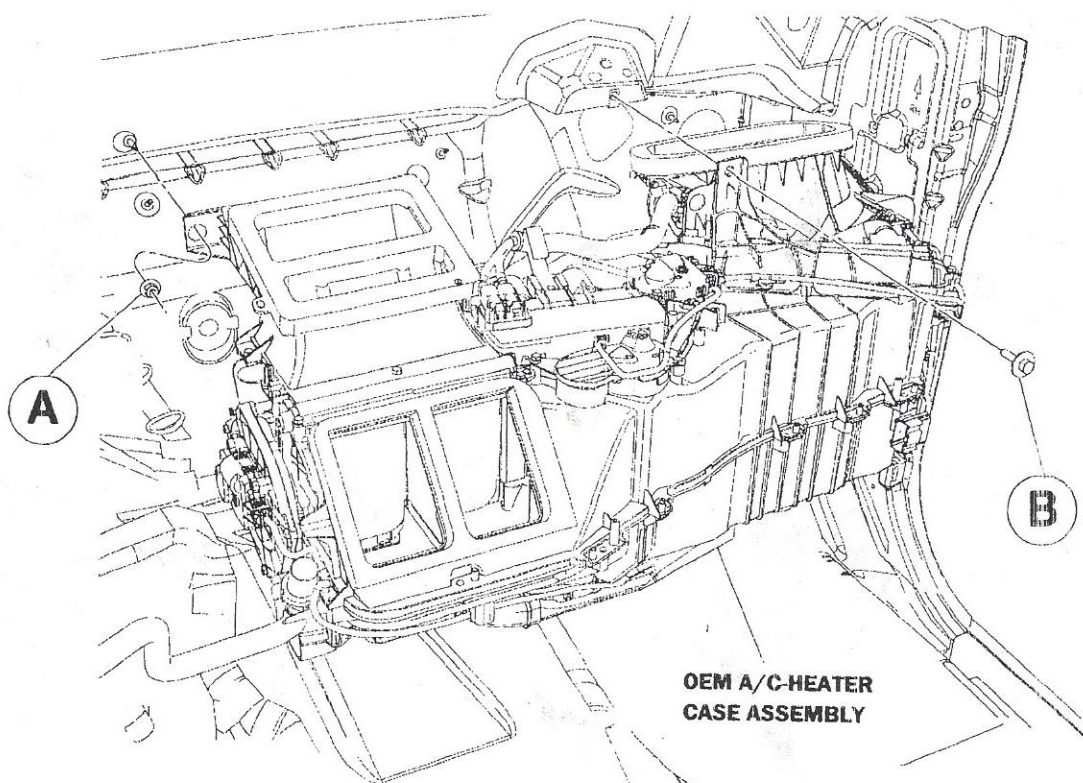
28. Remove the instrument panel.



## OEM A/C-HEATER CASE ASSEMBLY REMOVAL

**NOTE:** Refer to Figure 1 in the **ENGINE COMPARTMENT** set of instructions.

1. Vehicles with an auxiliary heater remove two (2) electric heater battery cable nuts and disconnect the cables. (Figure 1B in the engine compartment set of instructions).
2. Remove the exterior heater core and evaporator core housing bolt. **NOTE:** For 6.4L diesel vehicles, the 2 LH heater core and evaporator core housing nuts must be removed from below the vehicle. Remove the 3 exterior heater core and evaporator core housing nuts.
3. Remove the interior heater core and evaporator core housing nut (Figure 19A).
4. Remove the interior heater core and evaporator core housing bolt (Figure 19B).
5. Remove the OEM A/C-heater case assembly from the passenger compartment and place on the work bench.



**FIGURE 19**



## EVAPORATOR COIL PREPARATIONS AND INSTALLATION

1. Remove and retain the heater core.
2. Remove and retain the top case housing evaporator cover.
3. Remove the evaporator tube dash panel seal (Figure 20A).
4. Remove the evaporator tube bracket (three (3) screws)(Figure 20B).
5. Install evaporator coil (Figure 20C).
6. Install the evaporator tube bracket.
7. Install the evaporator tube dash panel seal.
8. Re-install the A/C-heater case assembly back into the passenger compartment in the reverse manner in which it was removed.

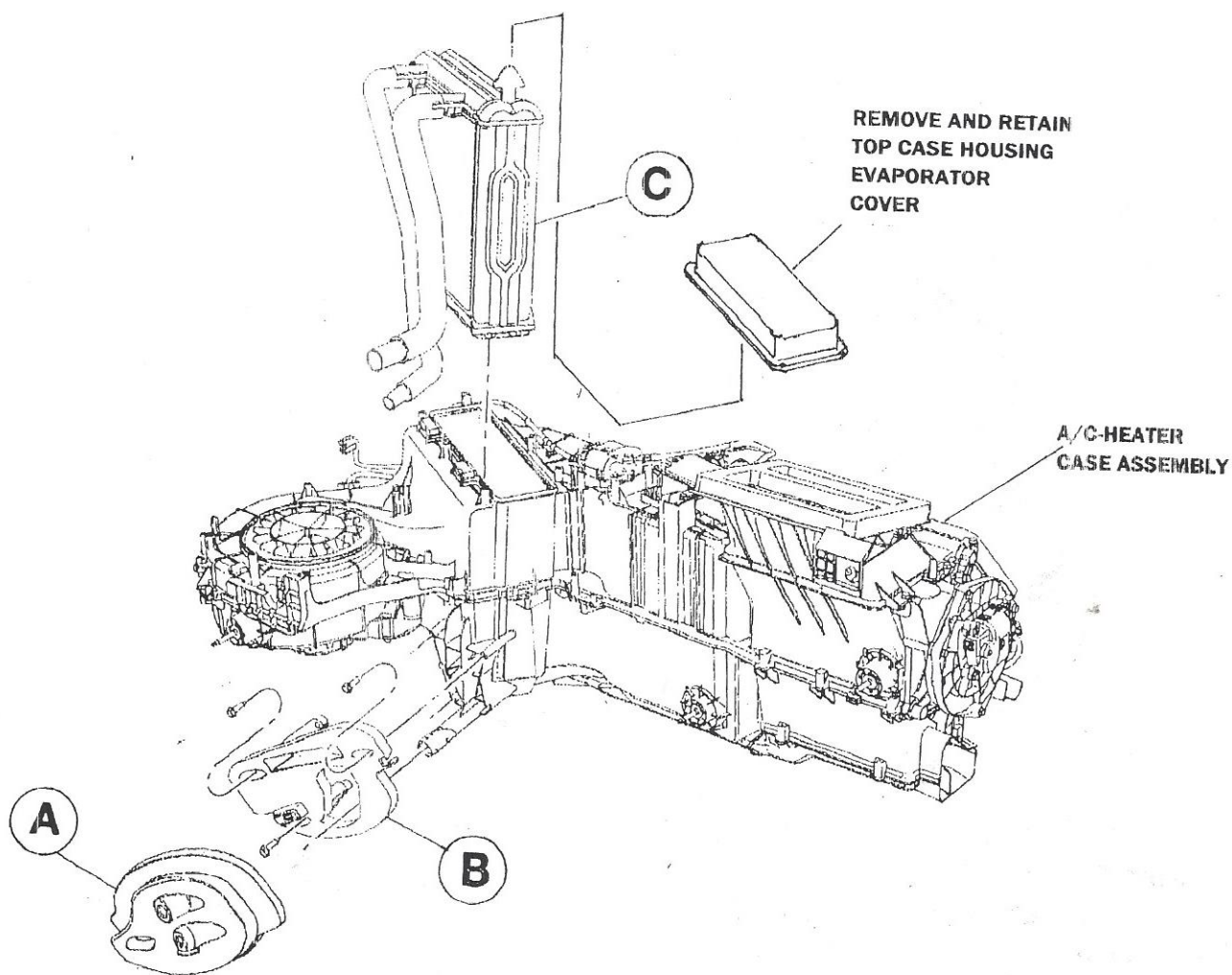


FIGURE 20

## RE-ASSEMBLY

1. Re-install all components, electrical connectors, panels, etc. in the passenger compartment in the reverse manner in which they were removed.
2. In the re-assembly process be sure to remove and discard the old heater control head and Install the new A/C-heat control head.

# ENGINE COMPARTMENT INSTRUCTIONS

## PREPARATIONS

1. Install the compressor to the engine block.
2. Re-install heater core quick connect fittings.
3. Re-install the two electric battery cable (if equipped).
4. Re-fill engine with engine coolant.

## ACCUMULATOR

1. Lubricate (o-rings) and attach the #8 fitting of the #8 fitting hardline (Figure 1C) to the evaporator #8 fitting (Figure 1D).
2. Lubricate (o-rings) and attach the #12 accumulator fitting (Figure 1E) to the #12 fitting at the evaporator core (Figure 1F). NOTE: The accumulator mounting bracket holes (Figures 1G and 1H) will pass over the firewall mounting studs.
3. Attach the accumulator mounting brackets (Figure 1G and 1H) with (2) ¼-1.25 fenderwashers, (2) ¼" lock washers and (2) 6mm nuts.

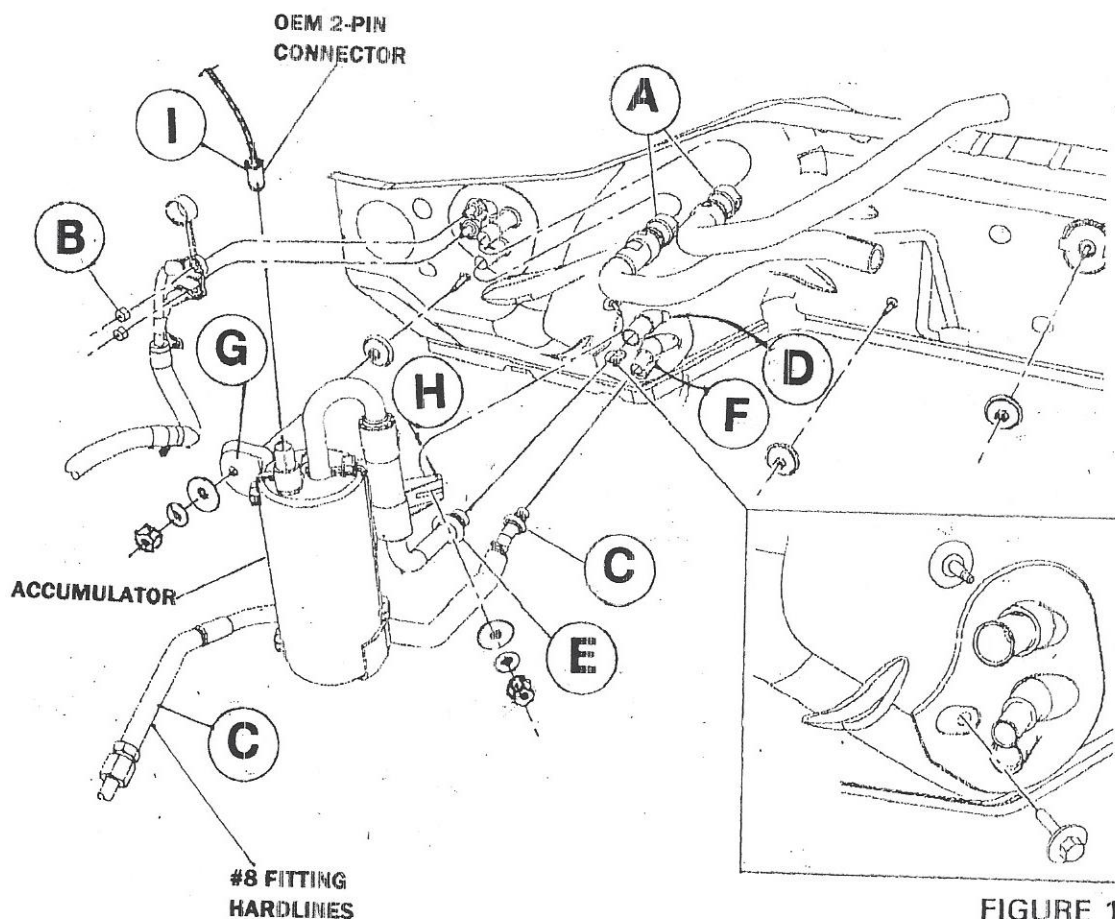


FIGURE 1



## CONDENSER AND HOSES

1. Place the condenser in front of the OEM radiator bulkhead and attach to the bulkhead with (2)  $\frac{1}{4}$ "-1.25 fender washers, (2)  $\frac{1}{4}$ " lock washers, and (2) 6mm X 16mm bolts. (Figures 2A and 2B).
2. Install (lubricate o-ring) the #12 suction hose to the compressor (Figure 2C), then to the accumulator with (1)  $\frac{1}{4}$ " USS flat washer and (1) 8mm ny-lock nut (Figure D).
3. Install the compressor fitting to the compressor with (1) 8mm nut (Figure 2E).

4. Install the #8 discharge fitting (Figure 2F) and the liquid line fitting (Figure 2G) with  $\frac{1}{4}$ " USS flatwashers and 8mm ny-lock nuts to the condenser. NOTE: Reference Figure 3 refrigeration hoses and hardline over view.

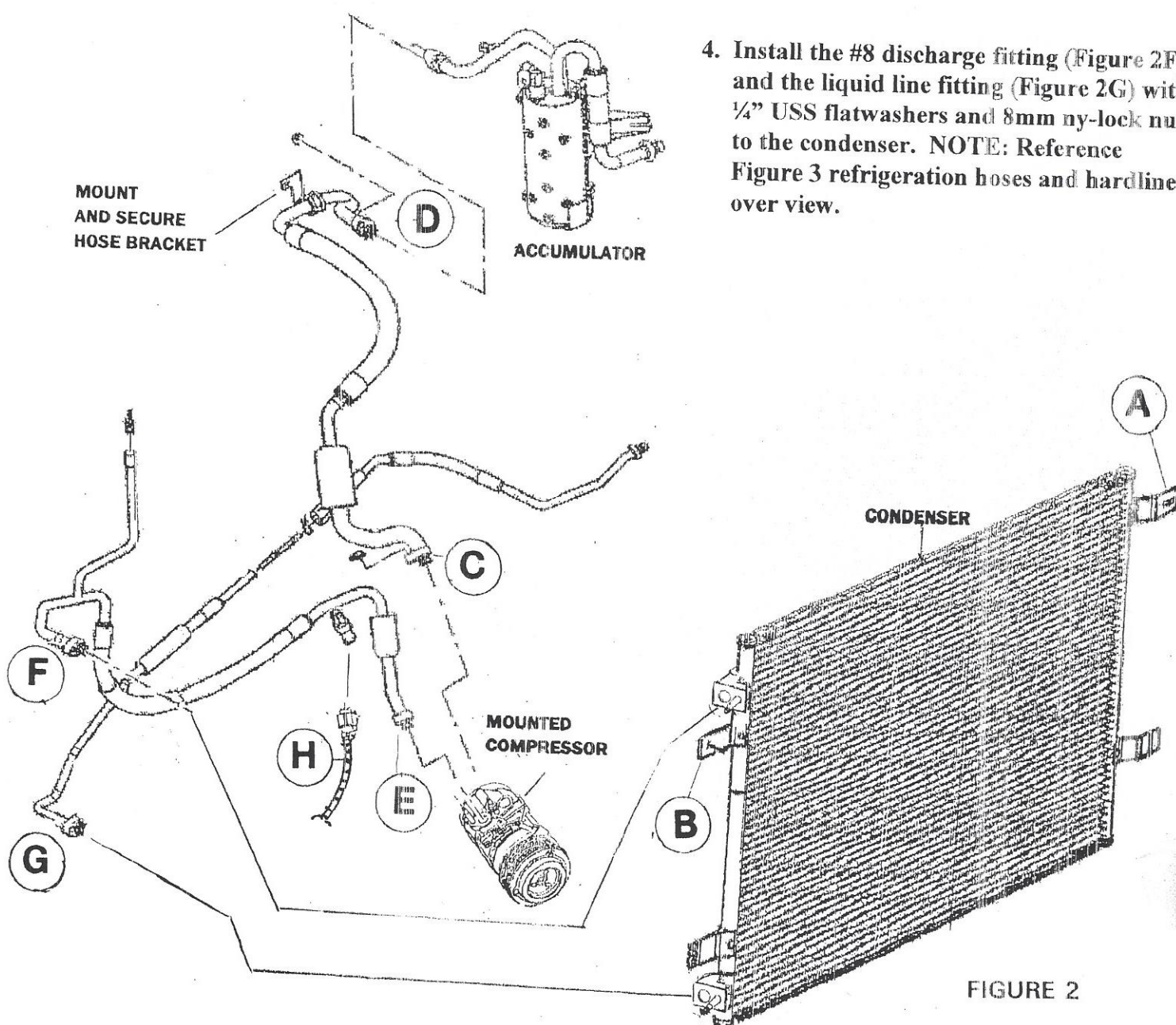


FIGURE 2