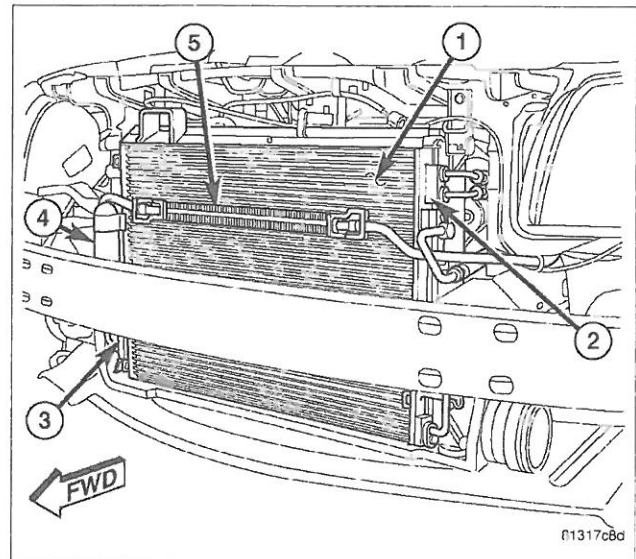


## CONDENSER-A/C

### DESCRIPTION

The A/C condenser (1) is located in the front of the engine compartment behind the front fascia. The A/C condenser is a heat exchanger that allows the high-pressure refrigerant gas being discharged by the A/C compressor to give up its heat to the air passing over the condenser fins, which causes the refrigerant to cool and change to a liquid state.

The A/C condenser is equipped with an integral automatic transmission cooler (2), a tapping block (3) for the receiver/drier (4) and mounting provisions for the power steering cooler (5).



### OPERATION

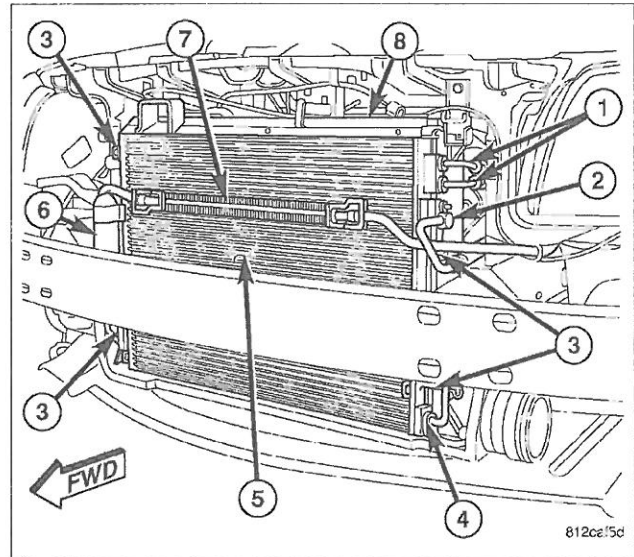
When air passes through the fins of the A/C condenser, the high-pressure refrigerant gas within the A/C condenser gives up its heat. The refrigerant then condenses as it leaves the A/C condenser and becomes a high-pressure liquid. The volume of air flowing over the condenser fins is critical to the proper cooling performance of the A/C system. Therefore, it is important that there are no objects placed in front of the radiator grille openings at the front of the vehicle or foreign material on the condenser fins that might obstruct proper air flow. Also, any factory-installed air seals or shrouds must be properly reinstalled following radiator or A/C condenser service.

The A/C condenser cannot be repaired and, if faulty or damaged, it must be replaced.

### REMOVAL

**WARNING:** Refer to the applicable warnings and cautions for this system before performing the following operation (Refer to 24 - HEATING & AIR CONDITIONING/PLUMBING - WARNING - A/C PLUMBING) and (Refer to 24 - HEATING & AIR CONDITIONING/PLUMBING - CAUTION - A/C PLUMBING). Failure to follow the warnings and cautions could result in possible personal injury or death.

1. Recover the refrigerant from the refrigerant system (Refer to 24 - HEATING & AIR CONDITIONING/PLUMBING - STANDARD PROCEDURE - REFRIGERANT SYSTEM RECOVERY).
2. Disconnect and isolate the negative battery cable.
3. Remove the front fascia (Refer to 23 - BODY/EXTERIOR/FRONT FASCIA - REMOVAL).
4. Disconnect the automatic transmission cooler lines (1) from the left end of the A/C condenser (5) (Refer to 7 - COOLING/TRANSMISSION - STANDARD PROCEDURE - TRANSMISSION COOLER LINE QUICK CONNECT FITTING).
5. Install plugs in, or tape over the automatic transmission cooler line fittings and the cooler ports.
6. Disconnect the A/C discharge line (2) and the A/C liquid line (4) from A/C condenser (Refer to 24 - HEATING & AIR CONDITIONING/PLUMBING/LINE-A/C LIQUID - REMOVAL) and (Refer to 24 - HEATING & AIR CONDITIONING/PLUMBING/LINE-A/C DISCHARGE - REMOVAL).
7. Position the power steering fluid cooler (7) out of the way (Refer to 19 - STEERING/PUMP/FLUID COOLER - REMOVAL).
8. Remove the receiver/drier (6) from the A/C condenser (Refer to 24 - HEATING & AIR CONDITIONING/PLUMBING/RECEIVER/DRIER - REMOVAL).
9. Remove the four bolts (3) that secure A/C condenser to the radiator (8).
10. Carefully tilt the bottom of the A/C condenser forward and lower the condenser out of the vehicle.
11. If required, place the A/C condenser onto a workbench and remove the power steering cooler brackets.



## INSTALLATION

**Note:** If the A/C condenser is being replaced, add 30 milliliters (1 fluid ounce) of refrigerant oil to the refrigerant system. Use only refrigerant oil of the type recommended for the A/C compressor in the vehicle.

1. If required, install the power steering cooler brackets onto the A/C condenser.
2. Carefully position the A/C condenser (5) onto the radiator (8).
3. Install the four bolts (3) that secure the A/C condenser to the radiator. Tighten the bolts to 5 N·m (45 in. lbs.).
4. Install the receiver/drier (6) onto the A/C condenser (Refer to 24 - HEATING & AIR CONDITIONING/PLUMBING/RECEIVER / DRIER - INSTALLATION).
5. Install the power steering fluid cooler (7) onto the A/C condenser (Refer to 19 - STEERING/PUMP/FLUID COOLER - INSTALLATION).
6. Connect the A/C discharge line (2) and the A/C liquid line (4) onto the A/C condenser (Refer to 24 - HEATING & AIR CONDITIONING/PLUMBING/LINE-A/C DISCHARGE - INSTALLATION) and (Refer to 24 - HEATING & AIR CONDITIONING/PLUMBING/LINE-A/C LIQUID - INSTALLATION).
7. Remove the tape or plugs from the automatic transmission cooler lines (1) and the cooler ports.

