

## 5.9L DIESEL ENGINE

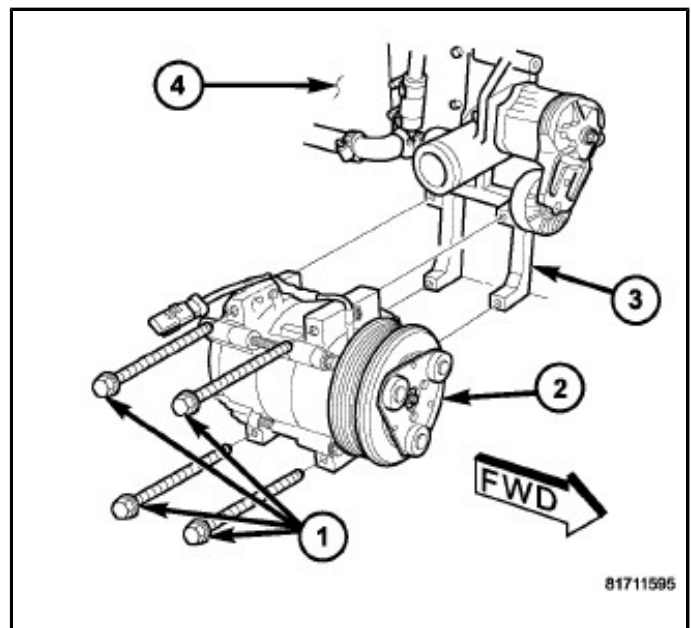
**CAUTION:** If the A/C compressor is being replaced, be certain to adjust the refrigerant system oil level (Refer to 24 - Heating and Air Conditioning/Plumbing/OIL, Refrigerant - Standard Procedure). Failure to properly adjust the refrigerant oil level will prevent the A/C system from operating as designed and can cause serious A/C compressor damage.

**CAUTION:** The A/C accumulator must be replaced if an internal failure of the A/C compressor has occurred. Failure to replace the A/C accumulator can cause serious damage to the replacement A/C compressor.

**NOTE:** When replacing multiple A/C system components, refer to the Refrigerant Oil Capacities chart to determine how much oil should be removed from the new A/C compressor (Refer to 24 - Heating and Air Conditioning/Plumbing/OIL, Refrigerant - Standard Procedure).

**NOTE:** Replacement of the refrigerant line O-ring seals and gaskets is required anytime a refrigerant line is opened. Failure to replace the rubber O-ring seals and metal gaskets could result in a refrigerant system leak.

1. If the A/C compressor (2) is being replaced, the refrigerant oil in the old compressor must be first drained and measured. Then the oil in the new A/C compressor must be drained. Finally, the new compressor must be refilled with the same amount of new refrigerant oil that was drained out of the old compressor (Refer to 24 - Heating and Air Conditioning/Plumbing/OIL, Refrigerant - Standard Procedure). When replacing multiple A/C system components, refer to the Refrigerant Oil Capacities chart to determine how much oil should be added to the refrigerant system (Refer to 24 - Heating and Air Conditioning/Plumbing/OIL, Refrigerant - Standard Procedure). Use only refrigerant oil of the type recommended for the A/C compressor in the vehicle.
2. Position the A/C compressor onto the mounting bracket (3) located on the right side of the cylinder block (4).
3. Install and hand tighten the four bolts (1) that secure the A/C compressor to the mounting bracket.
4. Tighten the bolts that secure the A/C compressor to the mounting bracket to 27 N·m (20 ft. lbs.).



5. Remove the tape or plugs from the opened refrigerant line fittings and the compressor ports.
6. Lubricate new seals with clean refrigerant oil and install them onto the refrigerant line fittings. Use only the specified seals as they are made of a special material for the R-134a system. Use only refrigerant oil of the type recommended for the A/C compressor in the vehicle.
7. Install the A/C suction and discharge line assembly (2) onto the A/C compressor (3).
8. Install the bolt (1) that secures the refrigerant line assembly to the A/C compressor. Tighten the bolt to 23 N·m (17 ft. lbs.).
9. Connect the wire harness to the clutch field coil wire lead connector (4).
10. Install the accessory drive belt (Refer to 07 - Cooling/Accessory Drive/BELT, Serpentine - Installation).
11. Reconnect the negative battery cable.
12. Evacuate the refrigerant system (Refer to 24 - Heating and Air Conditioning/Plumbing - Standard Procedure).
13. Charge the refrigerant system (Refer to 24 - Heating and Air Conditioning/Plumbing - Standard Procedure).

