

REMOVAL AND INSTALLATION (Continued)

7. Remove manifold and tube assembly as an on-bench operation.
8. If compressor is to be replaced, remove clutch and field coil assembly.

Installation

1. New service replacement FX-15 and 10P 15F compressors contain 207ml (7 oz) of specified refrigerant oil. Before replacement compressor installation drain 120ml (4 fluid oz) of refrigerant oil from compressor. This will maintain total system oil charge within specified limits.
2. Install manifold and tube assembly on A/C compressor (two bolts).
3. Install compressor and manifold and tube assembly on A/C mounting bracket (four bolts).
4. Using new O-rings lubricated with clean refrigerant oil, connect suction line to compressor manifold and tube assembly. Attach discharge line to A/C condenser.
5. Connect clutch wires to field coil connector.
6. Install accessory drive belt. Adjust belt tension to 190-217 N·m (141-160 lb-ft).
7. Leak test, evacuate and charge system following recommended service procedures. Observe all safety precautions.
8. Check system for proper operation.

3.8L Engine

NOTE: Whenever a compressor is replaced, it will be necessary to replace the suction accumulator / drier.

Removal

1. Discharge the system following the recommended procedure.
2. Drain and save radiator coolant following the recommended procedure.
3. Disconnect negative battery cable.
4. Disconnect and remove the integrated relay module.
5. Disconnect and remove the fan and shroud assembly.
6. Disconnect upper and lower radiator hoses.
7. Remove the radiator.
8. Disconnect A/C compressor magnetic clutch wire at field coil connector on the compressor.
9. Remove top two compressor mounting bolts.
10. Raise vehicle on a hoist. The following operation should be performed from underneath the vehicle.
11. Loosen and remove accessory drive belt.
12. Disconnect Heated Oxygen Sensor (HO2S) 9F472 wire connector.
13. Remove A/C muffler supporting strap bolt from subframe.
14. Disconnect A/C system hose from condenser and suction accumulator / drier using the spring lock coupling tool or equivalent. Immediately install protective caps on open lines.

15. Remove bottom two compressor mounting bolts. Ensure compressor is properly supported as the bolts are removed.
16. Remove compressor, manifold and tube assemblies from vehicle as a unit. The assembly can be removed from the bottom using care not to scrape against the condenser.
17. Remove manifold and tube assemblies from compressor.
18. If the compressor is to be replaced, remove clutch and field coil assembly.

Installation

1. A new service replacement FX15 compressor contains 207ml (7 oz) of specified refrigerant oil. Before installing a new compressor, drain 120ml (4 oz) of refrigerant oil from the compressor. This will maintain total system oil charge within specified limits.
2. Using new O-rings, lubricated with clean refrigerant oil, install manifold and tube assemblies onto the new compressor.
3. Install compressor, manifold and tube assemblies onto compressor mounting bracket
4. Using new O-rings lubricated with clean refrigerant oil, connect suction line to compressor and manifold assembly.
5. Using new O-rings lubricated with clean refrigerant oil, connect discharge line to compressor and manifold assembly.
6. Install muffler support onto subframe.
7. Connect Heated Oxygen Sensor (HO2S) 9F472 wire connector.
8. Install accessory drive belt.
9. Lower vehicle to floor and perform the following operations from the top.
10. Install radiator using the recommended procedure.
11. Connect radiator hoses and tighten hose clamps to specification.
12. Install fan and shroud assembly.
13. Install and connect integrated relay connector.
14. Connect negative battery cable.
15. Fill radiator with the reserved coolant.
16. Leak test, evacuate and charge system following recommended procedures.
17. Check system for proper operation.

ADJUSTMENTS**Mini-Tube Vacuum Hose Service**

1. Measure length of damaged area of mini-tube vacuum hose.