

REMOVAL AND INSTALLATION (Continued)

3. Remove line from vehicle.
4. Route new refrigerant line (and integral fixed orifice tube) with protective caps installed.
5. Remove protective caps and connect new refrigerant line into system using new O-rings lubricated with clean refrigerant oil. Connect spring lock couplings.
CAUTION: Make sure correct type O-rings (green) are installed on spring lock coupling A/C fittings.
6. Leak test, evacuate and charge the refrigerant system following recommended service procedures. Observe all safety precautions. Refer to Section 12-00.

Spring Lock Coupling

The spring lock coupling is a two-piece refrigerant line coupling that is held together by a garter spring. When connected together, two O-rings seal between the two fittings of the connector. A garter spring within the cage of the male fitting expands over the flared lip of the female fitting and prevents connector separation.

Refer to Spring Lock Coupling illustration and relate the numbered illustrations to the following Steps:

Tools Required:

- Spring Lock Coupling Tool T81P-19623-G1 and G2
- Spring Lock Coupling Disconnect Tool T83P-19623-C
- Spring Lock Coupling Disconnect Tool T85L-19623-A

To Disconnect Coupling

1. Discharge refrigerant from system following approved procedures. Refer to Section 12-00. Then, fit Spring Lock Coupling Tool T81P-19623-G1 for 3/8 inch and T81P-19623-G2 for 1/2 inch couplings or Spring Lock Coupling Disconnect Tool T83P-19623-C for 5/8 inch couplings to coupling as shown. The 3/4 inch Spring Lock Coupling Disconnect Tool T85L-19623-A, is required for servicing the accumulator suction connection to the evaporator outlet.
2. Close tool and push tool into open side of cage to expand garter spring and release female fitting.
NOTE: The garter spring may not release if the tool is cocked while pushing it into the cage opening.

3. After garter spring is expanded, pull fittings apart.
4. Remove tool from disconnected coupling.

To Connect Coupling

1. Ensure that garter spring is in cage of male fitting. If garter spring is missing, install a new spring by pushing it into cage opening. If garter spring is damaged, remove it from cage with a small wire hook (do not use a screwdriver) and install a new spring.
2. Clean all dirt or foreign material from both pieces of coupling.
3. Install new special green O-rings on male fitting.
CAUTION: Make sure correct type O-rings are installed on spring lock coupling A/C fittings.
4. Lubricate male fitting and O-rings and inside of female fitting with clean refrigerant oil.
5. Fit female fitting to male fitting and push until garter spring snaps over flared end of female fitting.
6. To ensure coupling engagement, pull on female fitting and visually check to verify garter spring is over flared end of female fitting.

Condenser

NOTE: Whenever a condenser is replaced, it is also necessary to replace the suction accumulator / drier.

CAUTION: If a condenser leak is suspected, the condenser must be leak tested before it is removed from the vehicle. Refer to Section 12-00 for the leak test procedure.

Removal

1. Discharge refrigerant from A/C system at service access gauge port valve located on suction line. Observe all safety precautions. Refer to Section 12-00.
2. Disconnect two refrigerant lines at fittings on RH side of radiator following procedure for disconnecting spring lock couplings.
3. Remove four bolts retaining condenser to radiator support and remove condenser from vehicle.