REFRIGERANT SYSTEM SERVICE (Continued)

If the A/C system has any of the R-134a identifying characteristics previously explained, R-134a refrigerant is the only type of refrigerant that can be used in the A/C system. If the A/C system is not identified as an R-134a system as previously explained, it is an R-12 system requiring the use of R-12 refrigerant.

R-134a Special Servicing Equipment

CAUTION: Do not use R-12 Special Tools and Equipment when servicing an R-134a system. Also, do not use R-134a Special Tools and Equipment when servicing an R-12 system. Doing so may cause damage to the A/C system. Refer to the Rotunda Equipment Catalog for more information on R-134a Special Servicing Equipment.

R-134a systems require the use of special servicing equipment designed specially for R-134a systems. R-12 servicing equipment cannot be used when servicing R-134a A/C systems. R-134a special servicing equipment includes:

- R-134a Manifold gauge set
- R-134a Charging station
- R-134a Reclamation system
- R-134a Leak detector

For more information on R-134a special tools and equipment, refer to the Rotunda Equipment Catalog.

Test equipment must be connected to the refrigerant system in order to make system tests. If a charging station is used, follow the instructions of the station manufacturer.

Refrigerant Recovery Tools Required:

 Rotunda A/C Refrigerant Reclaim System 078-00800

CAUTION: Use extreme care and observe all safety and service procedures related to the use of refrigerants.

Refrigerant recovery systems and recycling stations are in use in most automotive A/C service facilities. The use of such equipment makes possible the recovery and reuse of A/C system refrigerant after contaminants and moisture have been removed.

If a refrigerant recovery or recycling station is used, the following general procedures should be observed, in addition to the operating instructions provided by the equipment manufacturer.

- Connect refrigerant recycling station hose(s) to vehicle A / C service ports and recovery station inlet fitting.
 - NOTE: Hoses should have shut off devices or check valves within 25.4cm (12 inches) of the hose end to minimize the introduction of non-condensable gases (air) into the recycling station and to minimize the amount of refrigerant released when the hose(s) is disconnected.
- Turn power to the recycling station on to start recovery process. Allow recycling station to pump refrigerant from the system until the system pressure goes into a vacuum. On some stations, the pump will be shut off automatically by a low pressure switch in the electrical system. On other units it may be necessary to manually turn off the pump.
- Once recycling station has evacuated vehicle A / C system, close the station inlet valve (if so equipped). Then, switch off electrical power.
- Allow vehicle A / C system to remain closed for about two minutes. Observe system pressure level as shown on the gauge. If pressure does not rise, disconnect recycling station hose(s).
- If system pressure rises, repeat Steps 2, 3 and 4 until the vacuum level remains stable for two minutes.
- 6. Perform required service operations, evacuate and recharge the A/C system.

Connecting the Manifold Gauge Set (R-12 System)

Tools Required:

- High Side Adapter D81L-19703-A
- Fitting Adapter T71P-19703-S, T71P-19703-R

If a manifold gauge set is used, connect it as outlined.

- Turn both manifold gauge set valves all the way to the right, to close the high and low-pressure hoses to the center manifold and hose. A Rotunda Adapter D81L-19703-A (Motorcraft® Tool YT-354 or 355) or equivalent must be used to connect the manifold gauge set or charging station to the high-pressure service gauge port valve.
- Remove the caps from the high and low pressure service (Schrader) gauge port valves.
- If the manifold gauge set or charging station hoses do not have valve depressing pins in them, install Fitting Adapters T71P-19703-S and-R (which have pins) on the low and high-pressure hoses.
- Connect the high- and low-pressure hoses, or adapters, to the respective high and low-pressure service gauge port valves. The adapter shown in must be used on the high-pressure gauge port valve.

A service tee fitting which may be mounted on the clutch cycling pressure switch fitting is available for use in the low-pressure side of the system.