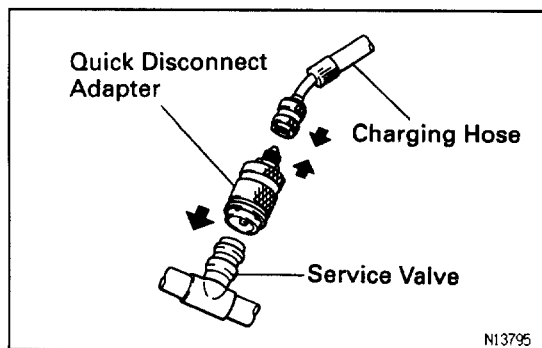
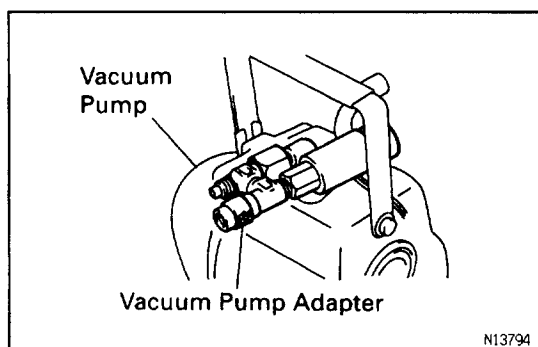


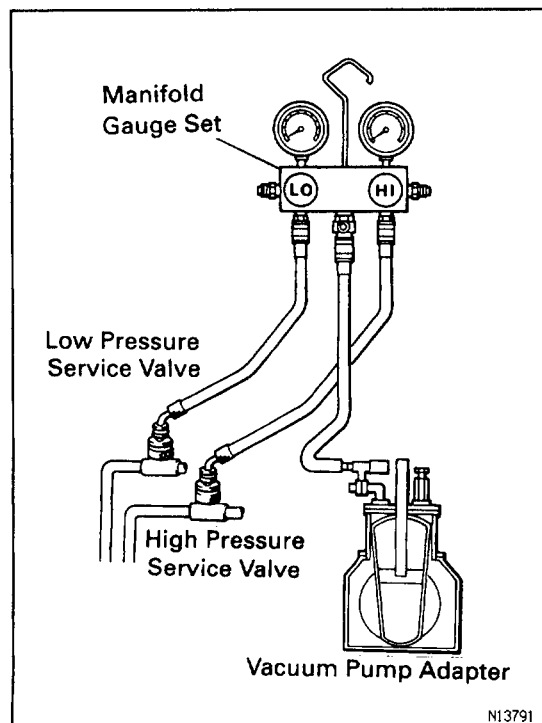


EVACUATING AIR IN REFRIGERATION SYSTEM AND CHARGING WITH REFRIGERANT

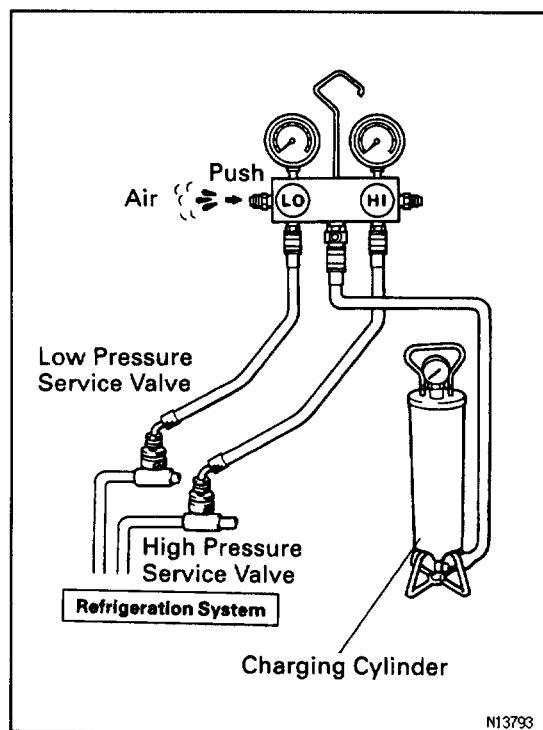
1. **CONNECT QUICK DISCONNECT ADAPTERS TO CHARGING HOSES**
2. **REMOVE CAPS FROM SERVICE VALVES ON REFRIGERANT LINES**
3. **INSTALL MANIFOLD GAUGE SET ON SERVICE VALVES**
 - (a) Close both hand valves of manifold gauge set.
 - (b) Connect the quick disconnect adapters to the service valves.



4. **EVACUATE AIR FROM REFRIGERATION SYSTEM**
 - (a) Connect the vacuum pump adapter to the vacuum pump.



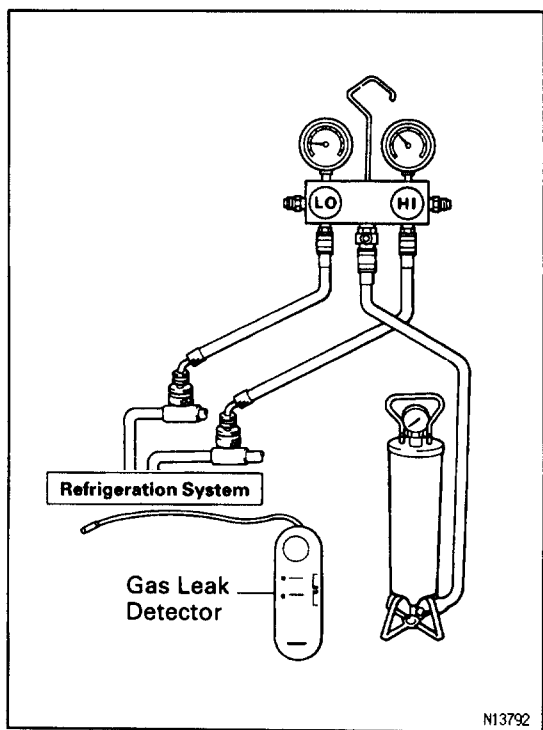
- (b) Connect the center hose of the manifold gauge set to the vacuum pump adapter.
- (c) Open both the high and low hand valves and run the vacuum pump.
- (d) After 10 minutes or more, check that the low pressure gauge indicates 750 mmHg (30 in. Hg) or more.
HINT: If the reading is not 750 mmHg (30 in. Hg) or more, close both hand valves of manifold gauge set and stop vacuum pump.
Check the system for leaks and repair as necessary.
- (e) Close both the high and low hand valves and stop the vacuum pump.
- (f) Leave the system in this condition for 5 minutes or longer and check that there is no change of the gauge indicator pressure.



5. INSTALL CHARGING CYLINDER

HINT: When handling the charging cylinder, always follow the direction given in the instruction manual.

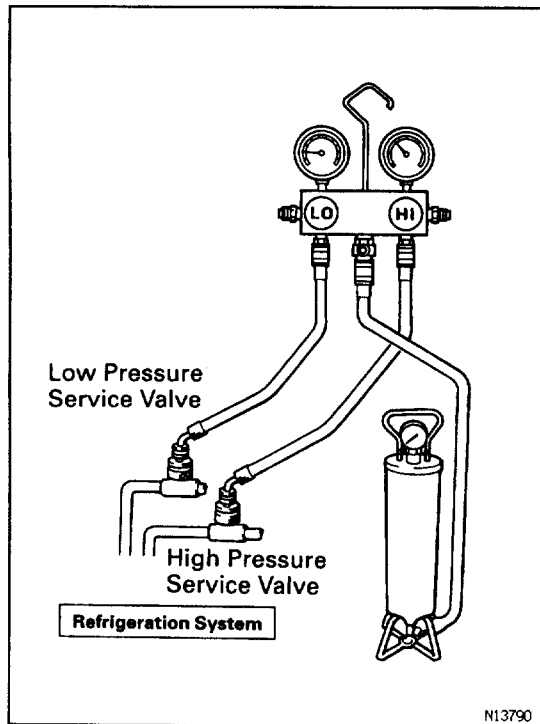
- Charging the proper amount of refrigerant into the charging cylinder.
- Connect the center hose to the charging cylinder.
CAUTION: Do not open both high and low hand valves of manifold gauge set.
- Open the valve of the charging cylinder.
- Press the valve core on the side of the manifold gauge and expel the air from the center hose.



6. INSPECT REFRIGERATION SYSTEM FOR LEAKS

- Open the high pressure hand valve and charge refrigerant.
- When the low pressure gauge indicates 98 kPa (1 kgf/cm², 14 psi), close the high pressure hand valve.
- Using leak detector, check the system for leakage.
- If leak is found, repair the faulty component or connection. Add evacuate air from refrigeration system (Refer to 4).

CAUTION: Use the refrigerant recovery/ recycling machine to recover the refrigerant whenever replacing parts.

**7. CHARGE REFRIGERANT INTO REFRIGERANT SYSTEM**

After refrigerant leak check and there is no leak, charge the proper amount of refrigerant into refrigeration system.

CAUTION:

- Never run the engine when charging the system through the high pressure side.
- Do not open the low pressure hand valve when the system is being charged with liquid refrigerant.

- (a) Open the high pressure hand valve fully.
- (b) Charge specified amount of refrigerant, then close the high pressure hand valve.

HINT: A fully charged system is indicated by the sight glass being free of any bubbles while A/C switch is on.

8. REMOVE MANIFOLD GAUGE SET FROM SERVICE VALVES

- (a) Close both hand valves of the manifold gauge set.
- (b) Disconnect the quick disconnect adapters from the service valves.

9. INSTALL CAPS TO SERVICE VALVES ON REFRIGERANT LINES