

## CHARGING

### 1. INSTALL CHARGING CYLINDER

#### HINT:

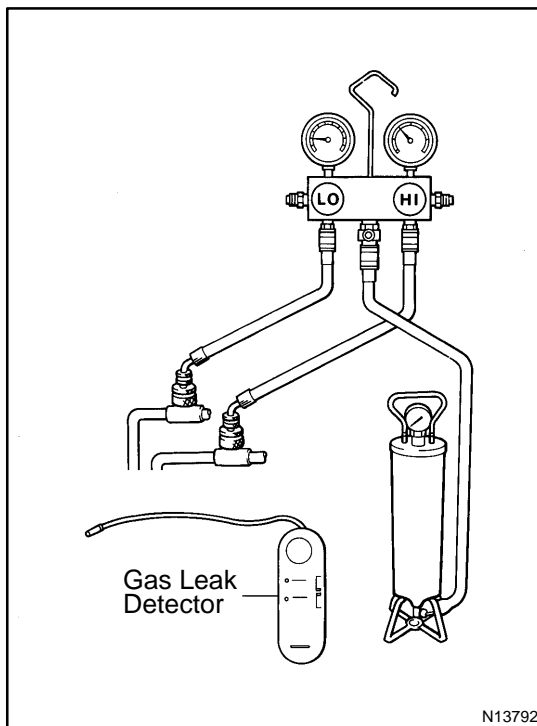
When handling the charging cylinder, always follow the directions given in the instruction manual.

- Charge the proper amount of refrigerant into the charging cylinder.
- Connect the center hose to the charging cylinder.

#### CAUTION:

**Do not open either the high or low side valve of the 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.

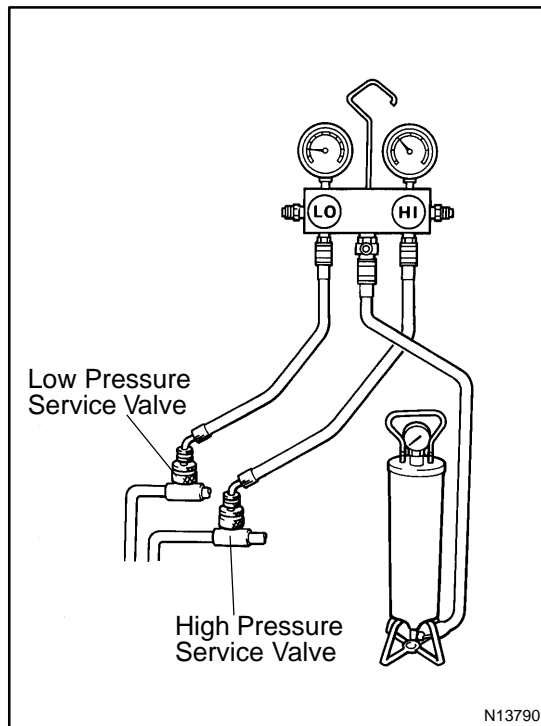


### 2. INSPECT REFRIGERATION SYSTEM FOR LEAKS

- Open the high pressure side valve and charge refrigerant.
- When the low pressure gauge indicates 98 kPa (1 kgf/cm<sup>2</sup>, 14 psi), close the high pressure side valve.
- Using a gas leak detector, check the system for leakage.

#### CAUTION:

**Use a refrigerant recovery/recycling machine to recover the refrigerant whenever replacing parts.**



### 3. CHARGE REFRIGERANT INTO REFRIGERANT SYSTEM

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

#### CAUTION:

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

- Open the high pressure side valve fully.
- Charge specified amount of refrigerant, then close the high pressure side valve.

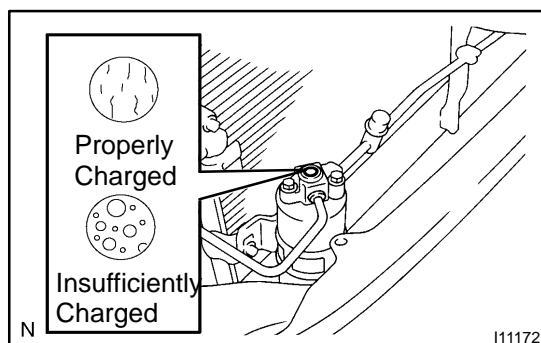
#### HINT:

The system is fully charged if bubbles cannot be seen through the sight glass.

- Partially charge the refrigeration system with refrigerant.
  - Prepare the vehicle:
    - Running engine at 1,500 rpm
    - Single A/C: Front blower speed control dial at "HI" position
    - Dual A/C: Front and rear blower speed set at "HI" position
    - Single A/C: Front temperature control dial at "MAX. COOL" position
    - Dual A/C: Front temperature control dial at "MAX. COOL" position  
Rear temperature control set at 18.5°C (65°F)
    - Air inlet control set at "RECIRC"
    - Fully open doors (Sliding roof: closed)
  - Open the low pressure side valve.

#### CAUTION:

**Do not open the high pressure side valve.**



- Access cab, Standard cab: Charge refrigerant until bubbles disappear and check the pressure on the gauge through the sight glass.

#### HINT:

Double cab models do not have a sight glass. When inspecting, use a manifold gauge set.