

# System Charging

## Charging Procedures

**WARNING** Always wear eye protection when charging the system.

**CAUTION:** Do not overcharge the system; the compressor will be damaged.

1. Connect a gauge set and refrigerant can (right side up) as shown, with the gauge valves closed. Purge air from the charging hose by opening the refrigerant valve, then loosening the center connector at the gauge, letting it hiss for a few seconds, and tightening it.
2. Open the high gauge valve and charge with approximately 300 g (10.5 oz) of refrigerant.

**WARNING** Do not start the engine with high gauge valve open.

### NOTE:

- Be sure to charge with 300 g (10.5 oz) refrigerant. If low, the vane in the compressor (if new compressor is installed) will not operate.
- Do not open the low gauge valve.

3. After charging with 300 g (10.5 oz) refrigerant, close the high gauge valve.
4. Start the engine and turn on the A/C switch and heater fan switch and turn the air mix lever to "COLD".
5. Run the engine at 1500–2000 min<sup>-1</sup> (rpm), and check the vane comes out.

**NOTE:** As the vane comes out, the low gauge suddenly falls.

6. If the vane does not come out:
  - (a) Raise the engine speed to 2500 min<sup>-1</sup> (rpm) and turn the A/C switch ON and OFF.  
If the vane does not come out, turn the ignition switch OFF and wait for 1–2 minutes, then restart the engine and raise to 2500 min<sup>-1</sup> (rpm) and turn the A/C switch ON and OFF.
  - (b) If the vane still does not come out, stop the engine and close the low gauge valve and recharge with additional 100 g (3.5 oz) of refrigerant. Repeat step (a).
  - (c) If the vane does not come out after performing the procedure in step (a) several times. Stop the engine and re-evacuate and repeat steps 1 thru 6.

7. Open the low gauge valve and charge refrigerant with the engine running at 2500 min<sup>-1</sup> (rpm).

**WARNING** Do not open the high gauge valve and keep the refrigerant can right side-up.

8. Charge the system with specified volume of refrigerant until sight glass is free of any bubbles, indicating a full charge.

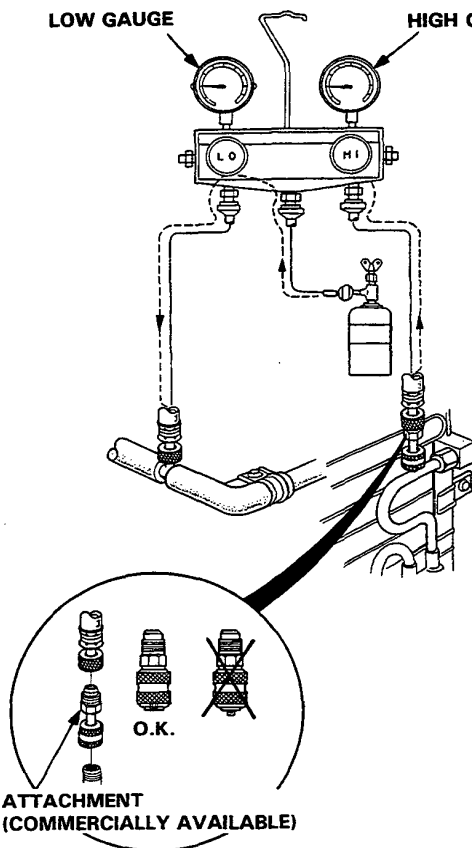
### REFRIGERANT VOLUME:

LH Drive: 950 ± 50 g (34 ± 2 oz)

RH Drive: 850 ± 50 g (30 ± 2 oz)

9. When fully charged, close the gauge valves, then the valve on the can. Slowly disconnect the refrigerant hose from the center gauge connection to allow excess refrigerant to escape. Quickly remove the gauges from the system to minimize refrigerant loss.

LOW GAUGE HIGH GAUGE



**ATTACHMENT  
(COMMERCIALLY AVAILABLE)**

**NOTE:** Set the attachment to the gauge hose at high pressure side first, then install the gauge set as shown. When disconnecting the gauge hose at high pressure side, remove the attachment from the high pressure charging valve.