

# System Charging

## Charging Procedures

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

The A/C system may be charged with refrigerant by either Vapor or Liquid method:

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

VAPOR CHARGING, through the low side:

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 low gauge valve (adjust it as necessary so pressure does not exceed 280 kPa (2.8 kg/cm<sup>2</sup>, 40 psi) while charging).
3. Start the engine and switch the air conditioner fan on MAX.

**NOTE:**

- Run the engine below 1,500 rpm.
- If using warm water to speed charging, do not submerge the entire can in the water.
- Keep water temperature below 40°C (104°F).

4. When adding the second or third can, keep the refrigerant can right side-up. Charge the system with 850–950 g (30–33 oz) of refrigerant.
5. 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.

LIQUID CHARGE through the high pressure side:

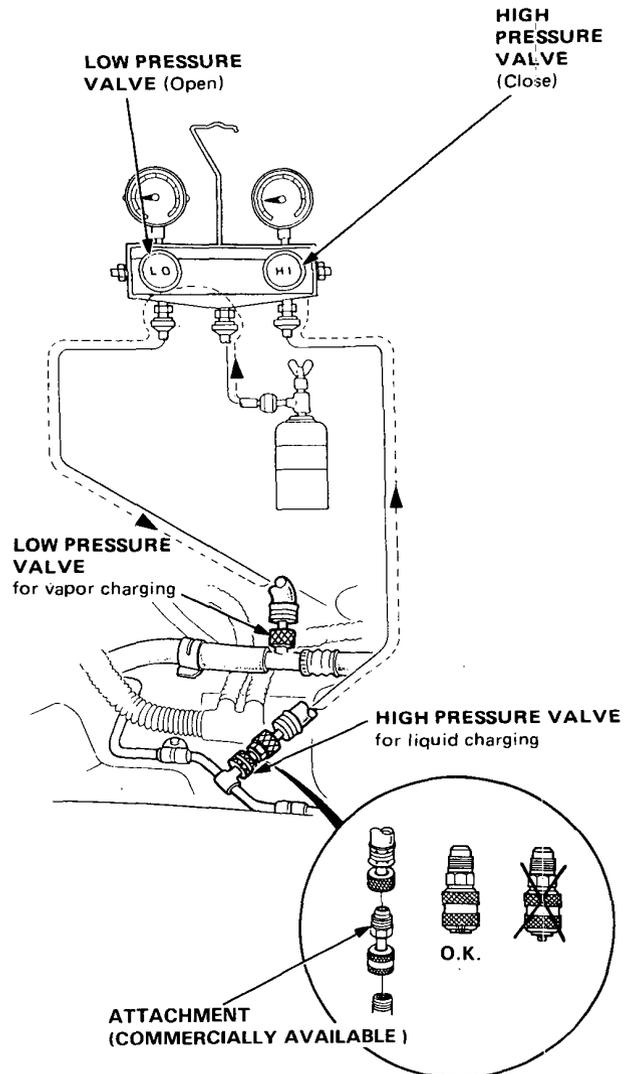
Following the charging station manufacturer's instructions, charge the system with 850 – 950 g (30 – 33 oz) of refrigerant.

**WARNING**

- Do not use disposable cans to charge through the high pressure side of the system. System pressure could transfer into the can causing it to explode. Use only the bulk supply of refrigerant from the charging station.
- Do not run the engine during liquid charge; the compressor will be damaged.

**NOTE:** After system charging, check the idle boost on section 6.

### Vapor Charging



**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.