

Air Purging; Air Purging With A Vacuum Pump (For Test Run) Preparation - Sanyo R410A Installation Instructions Manual

W-3way eco-i system air conditioner

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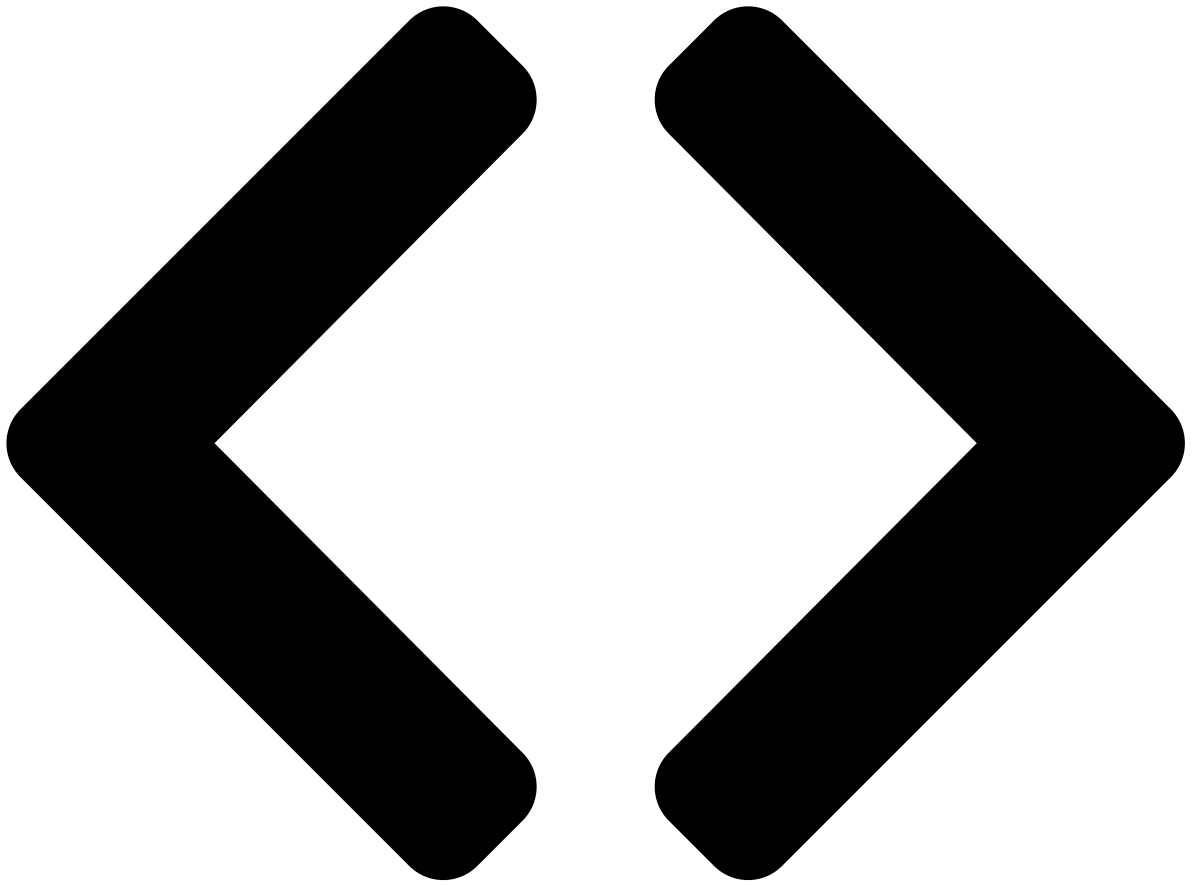
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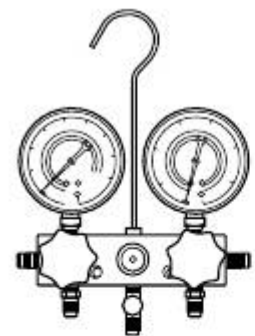


Enlarged version

6. AIR PURGING

Air and moisture in the refrigerant system may have undesirable effects as indicated below.

- pressure in the system rises
- operating current rises
- cooling (or heating) efficiency drops
- moisture in the refrigerant circuit may freeze and block capillary tubing
-



water may lead to corrosion of parts in the refrigerant system

Therefore, the indoor unit and tubing between the indoor and outdoor unit must be leak tested and evacuated to remove any noncondensables and moisture from the system.

■ Air Purging with a Vacuum Pump (for Test Run)

Preparation

Check that each tube between the indoor and outdoor units have been properly connected and all wiring for the test run has been completed. Remove the valve caps from all service ports on the outdoor unit. (Fig. 6-2) Note that all service valves on the outdoor unit are kept closed at this stage.

The balance tube leak test is not necessary if only 1 outdoor unit is installed.

Leak test

(1) Attach a manifold valve (with pressure gauges) and dry nitrogen gas cylinder to all service ports with charge hoses.

The balance tube leak test is not necessary if only 1 outdoor unit is installed.

CAUTION

(2) Pressurize the system to no more than 512 psig

²
(36 kgf/cm

G) with dry nitrogen gas and close the cylinder valve when the gauge reading reaches 512 psig

²
(36 kgf/cm

G). Then, test for leaks with liquid soap.

CAUTION

Use a manifold valve for air purging. If it is not available, use a stop valve for this purpose. The "Hi" knob of the manifold valve must always be kept closed.

To avoid nitrogen entering the refrigerant system in a liquid state, the top of the cylinder must be higher than the bottom when you pressurize the system. Usually, the cylinder is used in a vertical standing position.

Manifold gauge

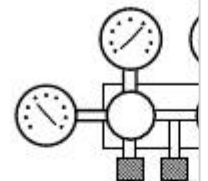
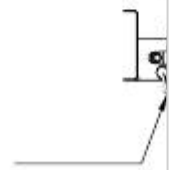
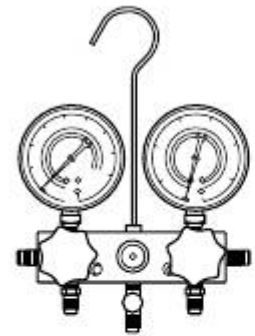


Fig. 6-1a

Flare nut
Manifold valve
Pressure
Lo
gauge
Suction
tube
Discharge
tube
Liquid
tube
Balance
tube

36

Vacuum pump

Fig. 6-1b

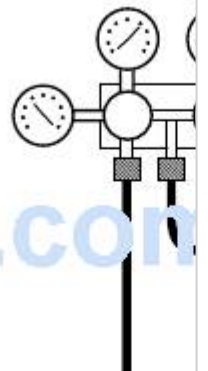
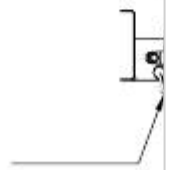
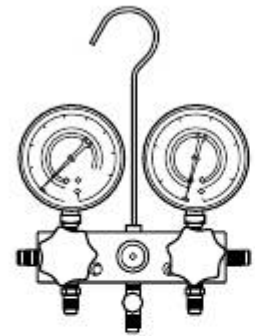
Valve cap
Service port cap

Fig. 6-2

Hi
Charge hose
Cylinder
valve
Nitrogen gas cylinder
(In vertical standing
position)
Open
Close
Open
Outdoor unit
Close
Open
Close
Open
Close

Fig. 6-3

Outlet
Inlet



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