

Air Purging; I Air Purging With A Vacuum Pump (For Test Run) - Sanyo SAP-CMRV3656EH Technical & Service Manual

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18

19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68

69

70



•

[Table of Contents](#)

-

Troubleshooting

•

Bookmarks



4. Air Purging

Air and moisture remaining in the refrigerant system have undesirable effects as indicated below. Therefore, they must be purged completely.

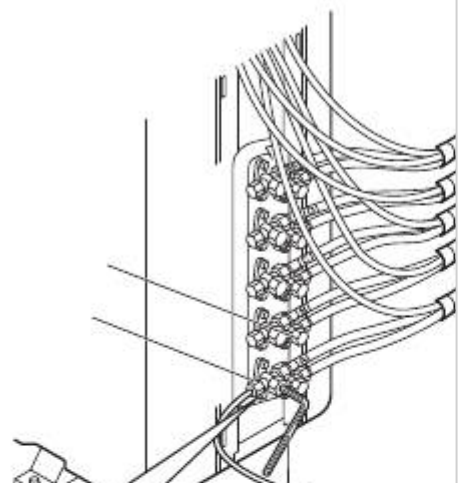
G
pressure in the system rises

G
operating current rises

G
cooling efficiency drops

G
moisture in the air may freeze and block capillary tubing

G
water may lead to corrosion of parts in the



refrigerant system

I

Air Purging with a Vacuum Pump (for Test Run)

G

In order to protect the earth's environment, be sure to use a vacuum pump to perform the air purge.

(Never perform an air purge by using the refrigerant gas cylinder or other external gas, or by using the gas inside the outdoor unit.)

Perform the air purge for tubes A, B, C, D and E. Use the same procedures for all tubes.

In order to prevent charging errors with the

CAUTION

air conditioner that uses R410A, the screw diameter at the service valve charging port has been changed. When recharging or performing other servicing, use the special charging hose and manifold gauge.

(1) Check that each tube (both narrow and wide tubes) between the indoor and outdoor units have been properly connected and all wiring for the test run has been completed. Note that both narrow and wide tube service valves on the outdoor unit are kept closed at this stage.

(2) Using an adjustable wrench or box wrench, remove the valve caps from the service valve on both narrow and wide tubes.

(3) Connect a vacuum pump and a manifold valve (with pressure gauges) to the service port on the wide tube service valve. (Fig. 20)

Before using the vacuum pump

CAUTION

adapter, read the vacuum pump adapter manual, and use the adapter correctly.

Be sure to use a manifold valve

CAUTION

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.

Service

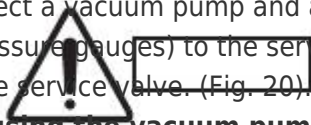
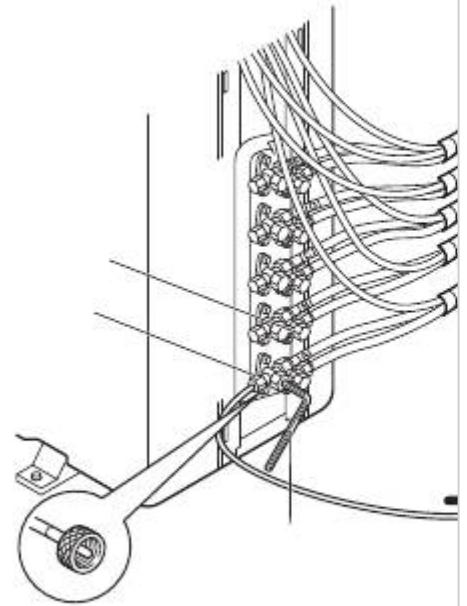
E

valve on
narrow

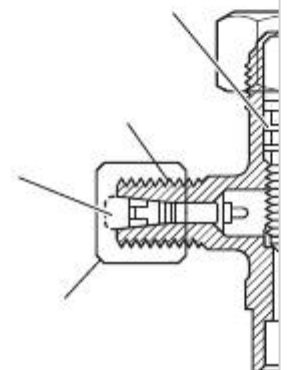
D

tube side

C



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Service valve on

B

wide tube

A

side

Hex wrench

(nominal size 4mm, not provided)

With push-pin

Spindle

Screw diameter: 1/2

UNF 20 threads

Valve core

Cap nut tightening torque:

7 - 11 N·m

(70 - 110 kgf·cm)

(Tighten by hand, then use a

wrench to turn approximately 30°.)

<Structure of service valve on wide tube side>

When using a hex wrench to open the spindle, an

extremely small amount of refrigerant may leak.

This does not indicate a problem.

Use a hex wrench of a type to which force can be

easily applied.

12

Manifold gauge

(special for R410A)

High-pressure valve

Low-pressure

Vacuum pump

valve

adapter

(for preventing

Leave the

reverse flow)

valve open.

(special for

Open

R410A)

Vacuum

pump

Charging hose

(special for R410A)

Fig. 20

Cap tightening torque:

Stopper

20 - 25 N·m

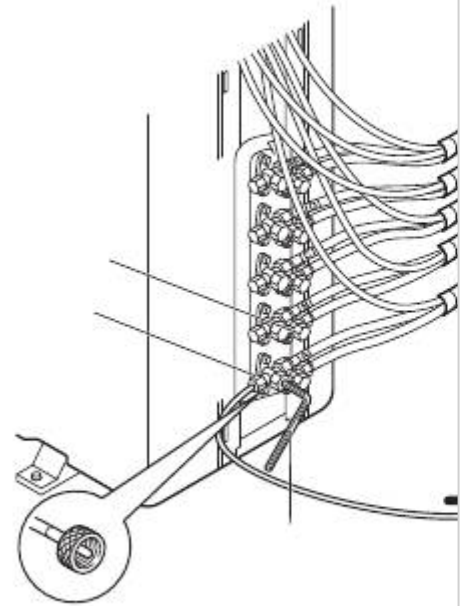
(200 - 250 kgf·cm)

(Tighten by hand, then

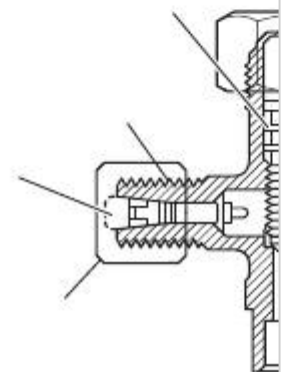
use a wrench to turn

approximately 45°.)

Fig. 21



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[Previous Page](#)
[Next Page](#)

1
...
51
52
53
54
55
56
57
58

Quick Links:

[Unit Specifications](#)

[Specifications 2-1. Unit Specifications](#)

[Self-Diagnostics](#)

Chapters

[Table of Contents](#) 3

[For Outdoor Unit Installation Instructions](#) 43

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