

SPLIT TYPE ROOM AIR CONDITIONER INSTALLATION MANUAL (PART NO. 9312853014-01)

This air conditioner uses new refrigerant R410A.

The basic installation work procedures are the same as conventional refrigerant (R22) models. However, pay careful attention to the following points:

- (1) Since the working pressure is 1.6 times higher than that of conventional refrigerant(R22) models, some of the piping and installation and service tools are special (see the Table below). Especially, when replacing a conventional refrigerant(R22) model with a new refrigerant R410A model, always replace the conventional piping and flare nuts with the R410A piping and flare nuts.
- (2) Models that use refrigerant R410A have a different charging port thread diameter to prevent erroneous charging with conventional refrigerant(R22) and for safety. Therefore, check beforehand (The charging port thread diameter for R410A is 1/2 threads per inch.)
- (3) Be more careful than foreign matter (oil, water, etc.) does not enter the piping when with refrigerant(R22) models. Also, confirm starting the piping accurately (avoid the opening by pinching, tapping, etc.).
- (4) When charging the refrigerant, take into account the slight change in the composition of the gas and liquid phases, and always charge from the liquid phase side where composition is stable.

Special tools for R410A

Tool name	Contents of change
Charge manifold	Pressure is high and cannot be measured with a conventional gauge. To prevent erroneous charging of other refrigerants, the diameter of each pipe that is used should be changed. It is recommended that gauge with scale 0.1 to 1.0 MPa is 1 to 50 bar for high pressure, 0.1 to 1.0 MPa is 5 to 30 bar for low pressure.
Charge hose	To increase pressure resistance, the hose material and hose size were changed.
Vacuum pump	A conventional vacuum pump can be used by installing a vacuum pump adapter.
Gas leakage detector	Special gas leakage detector for R410A refrigerant R410A.

Copper pipes

It is necessary to use seamless copper pipes and it is stipulated that the amount of residual oil is less than 40 mg/kg. Also, the oil rate in copper pipes having a longitudinal, flattened or discolored portion (especially on the internal surface). Other than, the expansion valve or capillary tube may become blocked with condensed oil.

As an air conditioner using R410A (superpressure) higher than when using R22, it is necessary to choose adequate material.

Thickness of copper pipes used with R410A are as shown in Table 1. However, copper pipes thicker than 5.0mm were when it is available in the market.

WARNING

- (1) Do not use the existing (for R22) piping and flare nuts.
 - When existing materials are used, the pressure inside the refrigerant cycle will rise and cause breakage, injury, etc. (see the special for R410A materials.)
- (2) When installing and servicing the air conditioner, do not mix gas other than the specified refrigerant(R410A) to enter the refrigerant cycle.
 - When an oil/gas mixture (the refrigerant cycle) the pressure inside the cycle will rise to an abnormally high value and cause breakage, injury, etc.

Table 1 Thickness of Seamless Copper Pipes

Refrigerant	Inner diameter (mm)	Thickness (mm)
R410A	6.35	0.80
R410A	9.52	1.00

SELECTING THE MOUNTING POSITION

Select the mounting position with the reference as follows.

1. INDOOR UNIT

- (1) Avoid the indoor unit and avoid on a strong wall which is not supported by structure.
- (2) The pipe and cable pipe should not be obstructed (the air should be able to flow) and they should not be obstructed (the air should be able to flow) and they should not be obstructed (the air should be able to flow).
- (3) Avoid the unit near an electric cable or power cable.
- (4) Do not install the unit where it is exposed to direct sunlight.
- (5) Avoid the unit where it is exposed to the vibration of the machine.
- (6) Avoid the unit where it is exposed to the vibration of the machine.
- (7) Avoid the unit where it is exposed to the vibration of the machine.
- (8) Avoid the unit where it is exposed to the vibration of the machine.

2. OUTDOOR UNIT

- (1) Possible, do not install the unit where it will be exposed to direct sunlight or rain. If necessary, install a filter that does not interfere with the air flow.
- (2) Do not install the unit where a strong vibration or noise is caused.
- (3) Do not install the unit where people can see.
- (4) Do not install the unit where it is exposed to direct sunlight.
- (5) Do not install the unit where it is exposed to the vibration of the machine.
- (6) Do not install the unit where it is exposed to the vibration of the machine.
- (7) Do not install the unit where it is exposed to the vibration of the machine.
- (8) Do not install the unit where it is exposed to the vibration of the machine.

CAUTION

Install all of the parts that obstruct the sight of the indoor and outdoor units and install properly so that the units will not topple or fall.

CAUTION

- (1) Do not install where there is the danger of toxic, flammable gas leakage.
- (2) Do not install near heat source.
- (3) If children under 10 years old may approach the unit, take preventive measures so that they can not reach the unit.
- (4) Install the outdoor unit on the roof where the height from the floor is more than 220 cm.

Outdoor unit piping direction

The piping can be constructed in the direction indicated in (1), (2), (3), and (4) in Fig. 1. When the piping is constructed in the direction (2) or (3), cut along the piping groove for the side of the indoor unit with a chisel.

When connecting the piping in direction (2), cut a notch in the side wall at the lower bottom of the under cover.



INSTALLATION DIAGRAM OF INDOOR AND OUTDOOR UNITS

Fig. 2

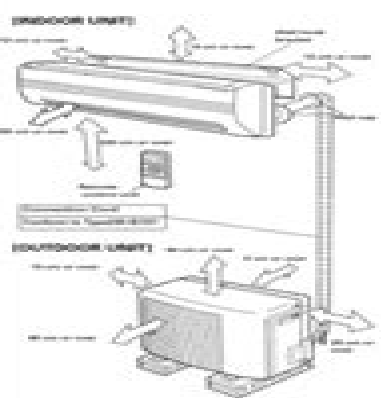


Fig. 3



For authorized service personnel only.

WARNING

- (1) For the basic installation to operate satisfactorily, install it as outlined in this installation manual.
- (2) Connect the indoor unit and outdoor unit with the air conditioner piping and cords available elsewhere parts. This installation manual describes the correct connections using the standard accessories and the parts specified in this installation manual.
- (3) Have installation work done by authorized service personnel only.
- (4) Remove and the power cord, hang up on the back, or change the plug.
- (5) Also do not use an extension cord.
- (6) Plug in the power cord plug firmly. If the receptacle is loose, repair it before using the room air conditioner.
- (7) Do not turn on the power until all installation work is complete.
- (8) Be careful not to scratch the air conditioner when handling it.
- (9) After installation, explain correct operation to the customer, using the operating manual.
- (10) Let the customer keep this installation manual because it is used when the air conditioner is removed or moved.
- (11) The maximum length of the piping is 15 m. The maximum height difference of the piping is 8 m. If the units are further apart than these, correct operation can not be guaranteed.

STANDARD ACCESSORIES

The following standard accessories are supplied.

Name and Shape	Qty	Name and Shape	Qty
Refrigerant pipe bracket	1	Refrigerant pipe clamp	1
Refrigerant pipe clamp	1	Refrigerant pipe clamp	1
Refrigerant pipe clamp	1	Refrigerant pipe clamp	1

The set of following parts are necessary in installation of this product.

Name
Refrigerant pipe bracket
Refrigerant pipe clamp
Refrigerant pipe clamp
Refrigerant pipe clamp
Refrigerant pipe clamp
Refrigerant pipe clamp
Refrigerant pipe clamp
Refrigerant pipe clamp
Refrigerant pipe clamp
Refrigerant pipe clamp

ELECTRICAL REQUIREMENT

Always make electric installation power supply in special branch circuit and provide a special earth and ground. Do not connect the power cord.

FRONT PANEL REMOVAL AND INSTALLATION

The intake grille removal

- (1) Push down the intake grille.
- (2) Push down the intake grille, and the intake grille is opened. Pull the side of the top of the intake grille to remove it.

The intake grille installation

- (1) The top of the intake grille is attached on the front panel.
- (2) Push the intake grille into the position.

The front panel removal

- (1) Push the front panel and the front panel is removed from the side of the unit.
- (2) Push the front panel and the front panel is removed from the side of the unit.

The front panel installation

- (1) Push the front panel of the front panel into the side of the unit and push the front panel into the side of the unit.
- (2) Push the front panel into the side of the unit and push the front panel into the side of the unit.

THE UNDER COVER REMOVAL AND INSTALLATION

The under cover removal should be done after the panel has been removed beforehand, in the panel only the diagram.

The under cover removal

- (1) Push the under cover and the under cover is removed from the side of the unit.
- (2) Push the under cover and the under cover is removed from the side of the unit.

The under cover installation

- (1) Push the under cover and the under cover is installed on the side of the unit.
- (2) Push the under cover and the under cover is installed on the side of the unit.

CAUTION

Do not touch the fan blades. The fan blades are very sharp and can cause injury. Do not touch the fan blades.

TEST RUNNING

- (1) Before test operation, check the fan blades.
- (2) Before test operation, check the fan blades.
- (3) Before test operation, check the fan blades.
- (4) Before test operation, check the fan blades.
- (5) Before test operation, check the fan blades.
- (6) Before test operation, check the fan blades.
- (7) Before test operation, check the fan blades.
- (8) Before test operation, check the fan blades.

CUSTOMER GUIDANCE

Explain the following to the customer:

- (1) Do not touch the fan blades.
- (2) Do not touch the fan blades.
- (3) Do not touch the fan blades.
- (4) Do not touch the fan blades.
- (5) Do not touch the fan blades.
- (6) Do not touch the fan blades.
- (7) Do not touch the fan blades.
- (8) Do not touch the fan blades.

POWER

WARNING

- (1) Do not touch the fan blades.
- (2) Do not touch the fan blades.
- (3) Do not touch the fan blades.
- (4) Do not touch the fan blades.
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CAUTION

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Split Type Air Conditioner Installation Manual

JS Bruner



Split Type Air Conditioner Installation Manual:

Code of Federal Regulations ,2007 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries , *Black & Decker Complete Guide to Wiring, 6th Edition* Editors of Cool Springs Press,2014-05-15 DIVThe best DIY wiring book on the market six times over divDIV divDIVBlack wire cable and conduits boxes and panels switches and receptacles to foolproof circuit maps for 30 common wiring set ups and step by step walkthroughs of every essential home wiring and electrical repair project this book teaches you everything you need to know Now in its sixth edition it has most importantly been updated to comply with 2014 2017 National Electric Codes but in addition nearly 1 000 accompanying photos offer up to date depictions of modern materials and fixtures Complete with the most current wiring information available today and presented in our long renowned fully illustrated how to format Black Decker The Complete Guide to Wiring 6th Edition guarantees you ll never be caught in the dark div

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