



# Sanyo SAP-K18AM Instruction Manual

Split system air conditioner



1
2
Table Of Contents
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

--

•

[Table of Contents](#)

- 

Troubleshooting

•

## Bookmarks



## Quick Links

[1 Table of Contents](#)

[2 Notices for Operation](#)

[3 Operation and Maintenance](#)

[4 Names and Functions of each Part](#)

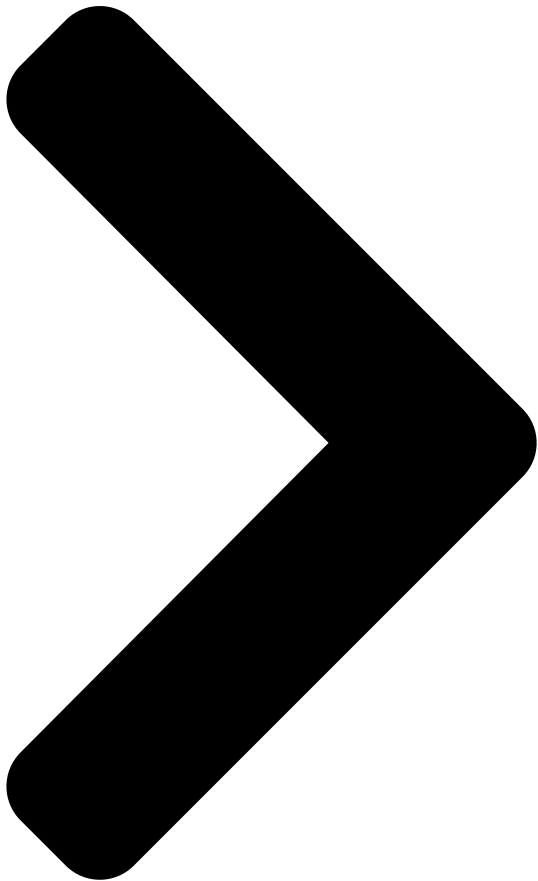
[5 Operation of Wireless Remote Control Unit](#)

[6 Troubleshooting](#)

[7 Install Outdoor Unit](#)

[8 Check after Installation and Test Operation](#)

[Download this manual](#)



FIRST MADE FOR  
MATERIAL OR MODEL  
DIMENSION OR MAKER

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APPROVALS

N.Yamazaki

2009/Nov /26

CHECK

Tai C.S

2009/Nov /25


DESIGN

Tai C S

2009/Sep/08

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REMARKS:

# INSTRUCTION MANUAL

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SAMS ONLY

SAP-KC18AM, KC18AGH

\*PAPER-JO

WOODFREE 80gm

BLACK Print

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P.g 33, additional Flare Nut

22 Dec 09

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PART CODE

~~85S-6-4181-002-00-0~~

PART NAME

EXPLANATORY BOOKLET

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Table of Contents

[Next Page](#)

1  
2  
3  
4  
5

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Split system air conditioner (37 pages)

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Split system air conditioner (68 pages)

### [Air Conditioner Sanyo SAP-K91AHA Technical & Service Manual](#)

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(148 pages)

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Inverter split system air conditioner (24 pages)

## Summary of Contents for Sanyo SAP-K18AM

[Page 1](#) INSTRUCTION MANUAL FIRST MADE FOR SAP-KC18AM, KC18AGH MATERIAL OR MODEL \*PAPER-JO DIMENSION OR MAKER WOODFREE 80gm COLOR BLACK Print APPROVALS N.Yamazaki 2009/Nov /26 CHECK Tai C.S 2009/Nov /25 DESIGN Tai C S 2009/Sep/08 P.g 33, additional Flare Nut Tai C.S 22 Dec 09 DRAWN PART CODE...

[Page 2](#) INSTRUCTION MANUAL Split System Air Conditioner INDOOR UNIT OUTDOOR UNIT COOL / DRY MODEL SAP-K18AM / AMS SAP-C18AM / AMS HEAT PUMP MODEL SAP-K18AGH SAP-C18AGH Save These Instructions! Pub. OI-85264181002000 © SANYO 2010 SANYO Electric Co., Ltd.

## [Page 3: Table Of Contents](#)

\_\_\_\_ Date of purchase \_\_\_\_\_ Dealer's address  
\_\_\_\_ Phone number \_\_\_\_\_ Thank you for choosing  
SANYO air conditioner, please read this instruction manual carefully before operating the unit  
and keep it carefully for consultation. Alert Symbols The following symbols used in this manual,  
alert you to...

## [Page 4: Operation And Maintenance](#)

The wrong repair will lead to an each wire to the gas pipe, water electric shock or fire, so you  
pipe, drainage pipe or any other should contact the SANYO It can help to preclude the improper  
places. service center for repair.

[Page 5](#) Operation and Maintenance 1. NOTICES FOR OPERATION Do not use the air  
conditioner for other Do not place a space heater near the air purposes, such as drying clothes,  
conditioner. CO toxicosis may occur as preserving foods, etc. a result of incomplete burning. Do  
not insert your hands or stick into Do not blow the wind to animals and the air intake or outlet  
vents.

## [Page 6: Notices For User](#)

Operation and Maintenance 2. NOTICES FOR USER Principle: 2.1 Working Principle Air  
conditioner absorbs heat in the room and transmit to and Special outdoor and discharged, so  
that indoor ambient temperature Functions for decreased. It's cooling capacity will decrease by  
the increase Cooling of outdoor ambient temperature.

[Page 7](#) Operation and Maintenance 2. NOTICES FOR USER 2.3 Working Temperature Range  
Temperature Indoor air temperature Outdoor air temperature Max. °C DB / 23 °C DB °C DB / 26  
°C DB COOLING Min. °C DB / 15 °C DB °C DB / --- Max.

## [Page 8: Names And Functions Of Each Part](#)

Operation and Maintenance 3. NAMES AND FUNCTIONS OF EACH PART Indoor Unit Air intake Back  
side of part (4) \*(5) x 2pcs (10) Air outlet (7) (8) The pattern in display: Wireless remote  
control Cool Dry Fan Heat Run S/n Part Name Set temp.

## [Page 9: Operation Of Wireless Remote Control Unit](#)

Operation and Maintenance 4. OPERATION OF WIRELESS REMOTE CONTROL UNIT 4.1 Remote  
Control Unit (Display) Displayed when transmitting data Displayed when setting temperature  
Displayed the clock Displayed when setting timer Symbols (1) Operation mode (4) Timer 24-  
hour ON Timer ..AUTO .....

[Page 10](#) Operation and Maintenance 4. OPERATION OF WIRELESS REMOTE CONTROL UNIT 4.2  
Remote Control Unit (Functions) Signal Transmitter Display ON/OFF operation button MODE  
operation button TEMP. setting button TEMP button FAN SPEED Selector button SWING button  
CLOCK button TIMER ON button BLOW button TIMER OFF button TURBO button...

[Page 11](#) Operation and Maintenance 4. OPERATION OF WIRELESS REMOTE CONTROL UNIT 4.2  
Remote Control Unit Functions (Continued) FAN SPEED selector AUTO : The air conditioner  
automatically decides the fan speeds. button : Low fan speed. : Medium fan speed. : High fan  
speed. AUTO TEMP button Press to see set temperature or indoor temperature which show on...

[Page 12](#) Operation and Maintenance 4. OPERATION OF WIRELESS REMOTE CONTROL UNIT 4.3  
Using the General Operation STEP 1 STEP 2 STEP 3 STEP 5 STEP 4 NOTE Press the setting  
buttons as described below and change the settings as desired. STEP 1 To start the air  
conditioner, press the ON/OFF operation button.

[Page 13](#) Operation and Maintenance 4. OPERATION OF WIRELESS REMOTE CONTROL UNIT 4.4  
Using the 24-Hour "ON" or "OFF" Timer 4.4.1 TIMER ON mode After the length of time set for  
TIMER ON elapses, the unit begins operating. (Example) The display depicted at left indicates  
that the air conditioner will begin operating in 10 hours.

[Page 14](#) Operation and Maintenance 4. OPERATION OF WIRELESS REMOTE CONTROL UNIT 4.5  
Using the SLEEP Operation SLEEP Mode is used for saving energy. Press the SLEEP button while  
operation. mark appears in the display. To release the SLEEP function, press the SLEEP button



again.

[Page 15](#) Operation and Maintenance 4. OPERATION OF WIRELESS REMOTE CONTROL UNIT 4.6 Using of the "SPECIAL" Features & Remarks "DRY" • During DRY operation, the fan speed is automatically set to Operation LOW. • If the room temp. is 2 °C higher than the Set Temperature, the How it works? unit will run in COOL mode.

[Page 16](#) Operation and Maintenance 4. OPERATION OF WIRELESS REMOTE CONTROL UNIT 4.6 Using of the "SPECIAL" Features & Remarks (Continued) About swing up and down "SWING" 1. Press swing up and down button continuously more than 2s, Operation the main unit will swing back and forth from up to down, and How it works? then loosen the button, the unit will stop swinging and present position of guide louver will be kept immediately.

[Page 17](#) Operation and Maintenance 4. OPERATION OF WIRELESS REMOTE CONTROL UNIT 4.7 How to Install Batteries 1. Slightly to press the place with , along the arrowhead direction to push the back cover of wireless remote control. (Fig. 1) 2. Take out the old batteries. (Fig. 1) 3.

### [Page 18: Clean And Care](#)

Operation and Maintenance 5. CLEAN AND CARE CAUTION 1. For safety, be sure to turn the air conditioner off and also disconnect the power before cleaning. Or it may cause electric shock. 2. Never sprinkle water on the indoor unit and the outdoor unit for cleaning because it can cause an electric shock.

[Page 19](#) Operation and Maintenance 5. CLEAN AND CARE 5.2 Cleaning the Air Filters (Continued) 1. Take Down the Air Filters Pull out the panel to an angle at bottom grooves on panel. And, pull the air filter upward then downward to take it off. (Fig. 7). 2.

### [Page 20: Troubleshooting](#)

Solution : Clean the air filters (see Pg.16). If the problem still has, the unit required servicing. Hence, please contact with SANYO authorized maintenance center. Sound of water flow can be heard during Sometimes there is swoosh, or gurgle while operation.

[Page 21](#) Operation and Maintenance 6. TROUBLESHOOTING The unit can not operate. • Has the power been shut down? • Is the power plug loosed? • Is voltage too high or too low? (tested by professional) • Has the TIMER ON function been well operated? Breaking off Cooling(Heating) efficiency is not good.

[Page 22](#) Operation and Maintenance 6. TROUBLESHOOTING Phenomenon Troubleshooting Indoor unit can't deliver air. • In HEAT " " mode, when indoor heat exchanger's temperature is very low, to stop below the cool wind (within 3 mins). • In HEAT " " mode, when outdoor temp. is very low or high humidity, there are much frost on the outdoor heat exchanger, unit will automatically defrost, Indoor unit stop...

### [Page 23: Installation Service](#)

3. When removing the unit to the other place, please firstly contact with the authorized SANYO Maintenance Center in the local area. 7.1 Basic Requirements Install in the following place may cause malfunction. If it...

[Page 24](#) Installation Service 7. NOTICES FOR INSTALLATION 6. Make sure that the outdoor unit installation dimension 7.3 Outdoor Unit should accord with installation dimension diagram, Installation Position convenient for maintenance, repair. ( See Pg.23) Selection 7. The height difference of connecting the tubing within 5m, (Continued) the length of connecting the tubing within 10m.

### [Page 25: Installation Dimension Diagram](#)

Installation Service 8. INSTALLATION DIENSION DIAGRAM Space to the ceiling 15cm Above Space to the wall 15cm Above Space to the wall 300cm Above Above Air outlet side Space to the floor • The dimensions of the space necessary for correct installation of the appliance including the minimum permissible distances to adjacent structures.

### [Page 26: Install Indoor Unit](#)

Installation Service 9. INSTALL INDOOR UNIT 9.1 Install the Real Panel 1. Always mount the rear

panel Mark on the Wall Wall Gradienter horizontally. Due to the water tray middle of it of indoor unit has been adopted the Space Space to the to the...

[Page 27](#) Installation Service 9. INSTALL INDOOR UNIT 9.4 Connect Indoor and Outdoor Electric Wire Power Supply Wire (1.8m) 1. The power wire and power connection wire are supplied in factory in a fixed length. (Fig.15a, 15b) NOTE Do consult your local dealer if additional wire length is required.

[Page 28](#) Installation Service 9. INSTALL INDOOR UNIT 9.4.2 Wire Length and Diameter Regulations on wiring diameter differ from locality. For field wiring requirements, please refer to local electrical codes. Carefully observe these regulations when carrying out the installation. Table 1 lists the recommended and max. allowable wire lengths and diameters for the power supply system.

### [Page 29: How To Install The Indoor Unit](#)

Installation Service 9. INSTALL INDOOR UNIT 9.5 How to Install the Indoor Unit For tubing, choose either the left side or right side direction. Tailing 2 Tailing 1 1. When routing the piping and wiring from the left or right side of indoor unit, cut off the Fig.20 tailing from the chassis in necessary.

### [Page 30: Install Outdoor Unit](#)

Installation Service 10. INSTALL OUTDOOR UNIT 10.1 Wiring Instructions for the Outdoor Unit Regulations on wire size differ from locality. For field wiring requirements, please refer to (Cooling Only Model ) Handle your local electrical codes. Make sure that the installation fully complies with all local and national regulations.

[Page 31](#) Installation Service 10. INSTALL OUTDOOR UNIT 10.2 Refrigerant Tubing Deburring 10.2.1 Use of The Flaring Method Before After Many of the conventional split system air conditioners employ the flaring method to connect refrigerant tubes which run between indoor and outdoor units. In this method, the copper tubes are flared at each end and connected with flares nuts.

[Page 32](#) Installation Service 10. INSTALL OUTDOOR UNIT 10.2.4 Connecting Tubing between Indoor and Torque wrench Outdoor Units • Tightly connect the indoor side refrigerant tubing extended from the wall with the outdoor Spanner side tubing. (Fig. 30) Indoor unit • To fasten the flare nuts, apply specified torque Outdoor unit Table 2 Tube Dia.

[Page 33](#) Installation Service 10. INSTALL OUTDOOR UNIT 10.3 Air Purging Air and moisture remaining in the refrigerant Indoor unit system have undersirable effects as indicated below. Therefore, they must be purged completely. • Pressure in the system rises • Operating current rises •...

[Page 34](#) Installation Service 10. INSTALL OUTDOOR UNIT 10.3 Air Purging - (Continued) 5. With the vacuum pump still running, close the "Low" knob of the manifold valve. Then 90 (1/4 turn) Narrow tube stop the vacuum pump. 6. With the accessory hex wrench, turn the Hex wrench valve stem on the narrow tube service valve counter-clockwise by 90 degrees (1/4 turn)

### [Page 35: Tubing Length](#)

Installation Service 10. INSTALL OUTDOOR UNIT 10.4 Tubing Length Install unit within the maximum elevation Tubing length (L) INDOOR different (H) above or below the outdoor UNIT unit and within a total tubing length (L) from the outdoor unit as detailed showed in Table 4 and Fig.37.

### [Page 36: Pump Down](#)

Installation Service 11. PUMP DOWN 11.1 What is Pump Down? Pump down means collecting all refrigerant gas in system back into the outdoor unit without losing any of gas. Pump down is used when the unit is to be moved or before serving the Indoor unit refrigerant circuit.

### [Page 37: Check After Installation And Test Operation](#)

Installation Service 12. CHECK AFTER INSTALLATION AND TEST RUN 12.1 Check After Installation Check the items listed in below table after installation of air conditioner. Items to be checked Possible malfunction • Has it been fixed firmly? • The unit may drop, shake or emit

noise. •...

This manual is also suitable for:

[Sap-k18amsSap-c18amSap-c18amsSap-k18aghSap-c18aghSap-kc18agh](#)