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You can read the recommendations in the user guide, the technical guide or the installation guide for TOSHIBA MMY-MAP0801HT8. You'll find the answers to all your questions on the TOSHIBA MMY-MAP0801HT8 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual TOSHIBA MMY-MAP0801HT8  
User guide TOSHIBA MMY-MAP0801HT8  
Operating instructions TOSHIBA MMY-MAP0801HT8  
Instructions for use TOSHIBA MMY-MAP0801HT8  
Instruction manual TOSHIBA MMY-MAP0801HT8

**TOSHIBA**

FILE NO : A04-004

**Quick reference**

## SUPER MODULAR MULTI



**TOSHIBA**



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**Manual abstract:**

The liquid refrigerant may be charged suddenly, therefore be sure to charge refrigerant gradually. When refrigerant leaks and refrigerant shortage occurs in the system, recover the refrigerant in the system and recharge refrigerant newly up to the correct level. Table 1 Table 2 Height difference between indoor units H2 30 m g h Indoor unit i j Liquid pipe dia. 6.4 9.5 12.7 15.9 19.1 22.2 (mm) Additional refrigerant amount/1m 0.

0.025 0.055 0.105 0.160 0.250 0.

350 quid pipe (kg/m) Combined HP (HP) 5 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 5 6 8 10 12 8 8 10 10 12 8 12 8 10 10 10 12 8 12 8 10 10 10 12 12 12 12 12 Combined outdoor units (HP) 6 8 8 10 10 8 12 8 8 10 10 10 8 12 8 12 10 10 10 10 12 12 12 6 8 8 8 10 10 8 10 8 12 8 10 10 10 10

12 12 8 8 8 8 10 10 10 10 12 C (Corrective amount of refrigerant) (kg) 0.0 0.0 1.5 2.5 3.

5 0.0 0.0 0.0 3.0 5.0 0.0 7.0 4.0 4.0 2.

0 0.0 1.0 6.0 3.0 6.0 4.0 6.0 6.0 5.0 4.

0 2.0 0.0 2.0 4 units Max. No.

of outdoor units 48HP Max. capacity of outdoor units 48 units Max. No. of indoor units H2 < 15m 135% of capa. of outdoor unit Max. capacity of indoor units (Depend on by height dif. between indoor units) 15m < H2 < 30m 105% of capa. of outdoor unit REQUEREMENT <Entry of refrigerant charge amount> Allowable length/height difference of the refrigerant pipe Allowable value 300m Total extended pipe length(Liquid pipe/real length) 175m Farthest equivalent piping length L (\*1) 85m Max. equivalent length of main pipe (\*3) Pipe 65m Farthest equivalent piping length from 1st baranch Li (\*1) length 25m Farthest equivalent piping length between outdoor units LO (\*1) 10m Max. equivalent length of outdoor unit connecting pipe 30m Max. real length of outdoor unit connecting pipe 50m Outdoor at upper side Height difference between indoor unit and outdoor unit H1 Outdoor at lower side 40m (\*2) Height 30m difference Height difference between indoor units H2 5m Height difference between outdoor units H3 \*1 : Farthest outdoor unit: (d), farthest indoor unit: (j) from 1st branch \*2 : If the height difference (H2) between indoor units exceeds 3m, set below 30m. \*3 : If Max. capacity of the combined outdoor units exceeds 46HP, Max. equivalent length is up to 70m. Fill the additional refrigerant record column of the wiring diagram indication plate with the additional refrigerant amount at installation work, total refrigerant amount and the name of the service ma who charged refrigerant at installation time.

The total refrigerant amount means the total value of the refrigerant amount at shipment and the additional refrigerant amount at installation time. the refrigerant amount at the shipment is one described on the Unit nameplate. After cacuuming work, exchange the vacuum pump with the refrigerant bomb and then start the additional charging work of refrigerant. Calculation of additional refrigerant charge amount Refrigerant charge amount at shipment from the factory does not include the refrigerant for pipe at the local site. For refrigerant to be charged in pipe at the local site, calculate the amount and charge it additionally. NOTE) If the additional refrigerant amount indicates minus as the result of calculation, use the air conditioner without addition of refrigerant.

Heat pump Outdoor unit Model model Charging amout (kg) 8.5 12.5 Cooling Outdoor unit Model only model Charging amount (kg) 8.0 11.

0 (MMY-) MAP0501HT\* MAP0601HT\* MAP0801HT\* MAP1001HT\* MAP1201HT\* (MMY-) MAP0501T8 MAP0601T8 MAP0801T8 MAP1001T8

MAP1201T8 03 Refrigerant Piping Diagram <Outdoor> 04 Inverter Unit 5, 8HP Model: MMY-MAP0501HT, MAP0601HT Inverter Unit 8, 10, 12HP Model: MMY-MAP0801HT, MAP1001HT, MAP1201HT Propeller fan Propeller fan M Sensor (TE1) Fan motor Sensor (TE1) Sensor Strainer (TO) Pulse motor valve

(PMV) M Fan motor (Right side) (Right side) Sensor Air heat exchanger at outdoor side (TO) Air heat exchanger at outdoor side Strainer (Left side) Pulse motor valve (PMV) Air heat exchanger at outdoor side (Left side) Air heat exchanger at outdoor side (PMV1) Strainer Solenoid valve (SV5) Check valve High-pressure sensor (TL) sensor Check joint Capillary tube Solenoid valve (SV3D) Liquid tank Strainer Oil separator 4-Way valve Solenoid valve (SV2) Capillary tube Low-pressure sensor Check joint Sensor (TS1) (PMV1) (PMV2) Strainer Solenoid valve (SV5) Check valve High-pressure sensor Check joint Capillary tube Solenoid valve (SV3D) Strainer Oil separator 4-Way valve Solenoid valve (SV2) Capillary tube Low-pressure sensor Check joint Sensor (TS1) Sensor (TL) Capillary tube Strainer Solenoid valve (SV41) Capillary tube Strainer Solenoid valve (SV41) Check valve Check valve Solenoid valve (SV42) Liquid tank Check valve Check valve Solenoid valve (SV42) Check joint High-pressure switch Sensor (TD1) Capillary tube High-pressure switch Solenoid valve (SV3C) Sensor (TD2) Check Accumulator joint High-pressure switch Sensor (TD1) Capillary tube High-pressure switch Solenoid valve (SV3C) Sensor (TD2) Accumulator Compressor 1 Compressor 2 Compressor 1 (Inverter) (Inverter) (Inverter) Strainer Check valve Strainer Check valve Strainer Check valve Strainer Check valve Capillary tube Sensor (TK1) Solenoid valve (SV3E) Sensor (TK4) Capillary tube Sensor (TK2) Oil tank Capillary tube Sensor (TK1) Solenoid valve (SV3E) Sensor (TK4) Capillary tube Sensor (TK2) Oil tank Capillary tube Capillary tube Capillary tube Capillary tube Strainer Strainer Check Strainer valve Solenoid valve (SV3A) Solenoid valve (SV3B) Check valve Strainer Strainer Check Strainer valve Solenoid valve (SV3A) Solenoid valve (SV3B) Check valve Balance pipe servise valve Liquid side servise valve Gas side servise valve Balance pipe servise valve Liquid side servise valve Gas side servise valve (Inverter) Sensor (TK3) Sensor (TK3) Compressor 2 05 Continued Explanation of Functional Parts Functional part name 1.SV3A 2.SV3B 3.SV3C 4.SV3D Solenoid 5.

SV3E valve 6.SV2 7.SV4 (n) 8.SV5 4-way valve Pulse motor valve PMV1, 2 Functional outline (Connector CN324: Red) 1)Collects oil in the oil tank during OFF time. 2)Supplies oil reserved in the oil tank during ON time.

(Connector CN313: Blue) 1>Returns oil supplied in the balance pipe to the compressor. (Connector CN314: Black) 1)Pressurizes oil reserved in the oil tank during ON time. (Connector CN323: White) 1)Reserves oil in the oil separator during OFF time, and supplies oil during ON time. (Connector CN323: White) 1)Turns on during operation and balances oil between compressors. (Hot gas bypass) (Connector CN312: White) 1)Low pressure release function 2)High pressure release function 3)Gas balance function during stop time (Start compensation valve of compressor) (Connector CN311: Blue) 1)For gas balance start 2)High pressure release function 3)Low pressure release function (Connector CN310: White) (for Heating model only) 1)Preventive function for high-pressure rising in heating operation (Connector CN317: Blue) 1)Cooling/heating exchange 2)Reverse defrost (Connector CN300, 301: White) 1) Super heat control function in heating operation 2) Liquid line shut-down function while follower unit stops 3) Sub-cool adjustment function in cooling operation 1)Prevention for rapid decreasing of oil (Decreases oil flowing to the cycle) 2)Reserve function of surplus oil (TD1: Connector, CN502: White, TD2: Connector, CN503: Pink) 1)Protection of compressor discharge temp.

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Relay connector NOTE SW30 ON 1234 ON 1234 ON 1234 & ON 1234 ON 1234 SW11 ON 1234 SW12 ON ON 1 1234 SW13 ON 1234 SW14 SW06 SW07 SW08 SW09 SW04 SW05 SW15 D600 D601 D602 D603 D604 SW01 SW02 SW03 1 1 1 SW10 # "\$ 11 Continued 12 Manual address setup from remote controller In case to decide an address of the indoor unit prior to finish of indoor cabling work and unpracticed outdoor cabling work remote controller) (Manual setup from Operation procedure Arrange one indoor unit and one remote controller set to 1 by 1.

Turn on the power. # ' \$ ! % " & Data CODE No. SET DATA UNIT No. R.C.

No. Push simultaneously + + buttons for 4 seconds or more. end Item code LCD changes to flashing. (Line address) Line address Using the setup temp. buttons, set to the item code. buttons, set SET CL UNIT # & ! Using the timer time up the line address. ! \$ ' " % (Match it with the line address on the interface P.C. board of the header unit in the identical refrigerant line.) " Indoor address Push (OK when display goes on.

) (Indoor address) Using the setup temp. buttons, set to the item code. buttons, set button. Wiring example in 2 lines Group address #1 Outdoor #2 Outdoor # \$ Individual : 0000 Center unit : 0001 Terminal unit : 0002 } In case of group control Using the timer time up the indoor address. Indoor Indoor Indoor Indoor Indoor Group address % Push (OK when display goes on.) (Group address) Using the setup temp. buttons, set to the item code. buttons, set , . button. Line address Indoor address Group address 1 1 1 Remote controller 1 2 2 1 3 2 Terminal 2 1 2 2 2 2 & ' Header Using the timer time Individual = Follower unit = , Header unit = In the above example, under condition of no inter-unit wire of the remote controller, set the address after individual connecting of the wired remote controller.

Push (OK when display goes on.) Push button. Setup operation finished. (Status returns to normal stop status.) button.

Note 1) When setting the line address from the remote controller, do not use address 29 and 30. The address 29 and 30 cannot be set up in the outdoor unit. Therefore if they are incorrectly set up, a check code [E04] (Indoor/outdoor communication circuit error) is output. 13 Clearance of Indoor's Address 14

Clearance of address (Return to status (Address undecided) at shipment from factory) Method 1 An address is individually cleared from a wired remote controller. Item code line address 12 indoor address 13 group address 14 central address <0099> address Clear 03 Turn on the indoor/outdoor power of which address is to be cleared.

After approx. 1 minute, check that U.1. - - - is displayed, and then execute the following operation on the interface P.C. board of the header unit of which address is Method 2 Clear the indoor addresses in the same refrigerant line from the outdoor unit. to be cleared in the refrigerant line. Point Turn off the power of the refrigerant line to be returned to the status at shipment, and change the header unit to the following status. 1) Remove the relay connector between [U1U2] and [U3U4].(If it has been already removed, leave it as it is.

) 2) Turn on SW30-2 on the interface P.C. board of the header unit if it is OFF.(If it has been already ON, leave it as it is.) SW01 SW02 SW03 SW04 Address which can be cleared After checking that A.d.buS is displayed on 7 2 2 segment display, and then push SW04 for 5 seconds or more. Line + Indoor + Group address After checking that A.d.nEt is displayed on 7 2 2 segment display, and then push SW04 for 5 seconds or more.

Central address Relay connector SW30 left : SW30-1 right : SW30-2 After A.d. c.L. has been displayed on 7-segment display, return SW01/SW02/SW03 to 1/1/1.

When the address clearing has correctly finished, U.1.L08 is displayed on 7-segment display after a while. If A.d.

n.G. is displayed on 7-segment display, there is a possibility which is connected with the other refrigerant line. Check again the relay connector between [U1U2] and [U3U4] terminals. NOTE) Be careful that the other refrigerant line address may be also cleared if clearing operation is not correctly executed. MCU ! After clearing of the address, set up an address again. Central control Relay connector device U1 U2 U3 U4 Header unit U3 U4 Follower unit U3 U4 Header unit Center unit U3 U4 Follower unit U3 U4 Header unit Center unit U3 U4 U1 U2 U5 U6 U1 U2 U5 U6 U1 U2 U5 U6 U1 U2 U5 U6 U1 U2 U5 U6 U1 U2 A B U1 U2 A B U1 U2 A B U1 U2 A B U1 U2 A B Remote controller Remote controller Remote controller Remote controller Unit of which address is to be returned to the initial status 15 Troubleshooting in Test Operation 16 2 Operation from remote controller is not accepted and a check code is dis- 1 A check Code is Displayed on the Remote Controller Check code displayed on remote controller E04 Center unit 7-segment display E19-00 Outdoor power is formerly turned on. Turn on the power again. (In order of Indoor There is none of outdoor terminal resistance, or there are two or more resistances. (After address setup) Outdoor) Cause Countermeasures played on 7-segment display of the interface P.

C. board of the header unit. Remote controller status No response 7-segment display of center unit L08 Line addresses and indoor addresses of all the connected indoor units are unset. There is no header unit of group control. E19-00 Indoor unit power is not turned on. Indoor/outdoor communication line is not correctly connected to the header unit. (Fig. 1) (Indoor/outdoor cannot communicate before address setup.) SW30 ON 1 2 Cause Countermeasures Set up addresses. Check SW30 bit 2 of the header unit.

No connection between multiple refrigerant lines: SW30 bit 20N Connection between multiple refrigerant lines: SW30 bit 2 of the connected header unit is turned on only in one line. 2 Set up group address. Turn on the power again. (In order of indoor Correct cabling. outdoor) ON 1 After address was decided, all the indoor units do not correctly response after power-ON in outdoor unit.

SW30 Check and modifies disconnection of indoor/outdoor communication line.(Communication line between center unit and the leading indoor unit) Check influence of communication noise. Set up address again. E19-02 There is none of outdoor terminal resistance, or there are two or more resistances. (Before address setup) Check SW30 bit 2 of the header unit.

No connection between multiple refrigerant lines: SW30 bit 2 0N Connection between multiple refrigerant lines: SW30 bit 2 of the connected header unit is turned on only in one line.



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L08 Address setup error Only line addresses of the connected indoor units are undefined. The outdoor line address and the line addresses in all indoor units do not match. The indoor addresses are duplicated. (Units except those displaying E04 are duplicated.) A header unit is not set up in a group. (Except group displaying E04) When connecting indoor/outdoor communication line between outdoor units under condition of connected communication line between outdoor units (Fig. 2) SW08 setup error Correct cabling. Turn all SW08 to OFF side. Correct cabling.

E20-01 Address setup is performed with connecting indoor/outdoor communication line between outdoor units. (Fig. 3) Address setup is performed under condition of connecting between multiple refrigerant lines. (Fig. 3) Correct cabling. E08-XX Duplication of indoor addresses. (Address No in which sub-code of the check code are duplicated) Set up address again. 3 There is no display of a check code on 7-segment display on the interface P.C. board of the header unit though there is indoor unit which does not Check SW30 bit 2 of the header unit.

E07 There is none of outdoor terminal resistance, or there are two or more resistances. (After address setup, when terminal resistance setup is changed after power-ON.) Transmission circuit error at interface side (P.C. board failure) accept the operation from the remote controller.

Remote controller status No response 7-segment display of center unit None Communication line is not connected between indoor and outdoor. Line and indoor addresses are unset. (Unit which does not response to remote controller) The power of the header unit of the group is not turned on in indoor group control. (Unit which does not response to remote controller) Turn on the power. Modify cabling.

Set up address. Cause Countermeasures ON 1 2 No connection between multiple refrigerant lines: SW30 bit 20N Connection between multiple refrigerant lines: SW30 bit 2 of the connected header unit is turned SW30 on only in one line. Replace the interface P.C. board. E06 After address setup, communication from all the indoor units interrupted under condition that a normal operation can be performed. Check and correct disconnection of indoor/outdoor communication line. (Communication line between header unit and the leading indoor unit) Check influence of communication noise. No display on remote controller (No line is output.) None Group address is set up to follower unit in the individual control.

(Unit which does not response to remote controller) The power is not turned on. (Unit which is not displayed on remote controller) Remote controller is not connected with cable. (Unit which is not displayed on remote controller) Miscabling of remote controller Set [0] to group address in case of individual control. Turn on the power. Correct cabling. E16 E16-XX Exceeded No of connected indoor units or exceeded capacity. Adjust No of connected indoor units or capacity. Correct cabling. Remove FASTON terminal connected to remote controller terminals (A/B), and check the voltage. If voltage is not applied, replace P.

C. board. (15 to 18V usually) E25 E25 Duplication of outdoor addresses. (Only when outdoor address was manually set up) Do not use a manual setup for outdoor address. (Unit which is not displayed on remote controller) Remote controller communication circuit error (Unit which is not displayed on remote controller) If 230V is incorrectly applied to the remote controller terminal, the remote controller communication circuit fails.

E26 E26-XX No. of connected outdoor units decreased. When setting outdoor backup The power of follower unit is not turned on. Correct of cause of error occurrence If it occurred when setting backup, clear the error after setup finish. If the power of follower unit is not turned on, turn on the power.

4 In check for No. of connected outdoor units and connected Indoor units after address setup, diminished No. of connected units displayed. (There are outdoor/indoor units which do not operate in a test operation.) Status Number of connected outdoor units is short. Cause Miswiring of communication line between outdoor units or unconnected cable (Fig. 4) (Address setup operation has finished without recognition of miswired follower unit.) Number of connected indoor units is short. Miswiring of communication line between indoor units or unconnected cable (Fig. 5) (Address setup operation has finished without recognition of miswired indoor unit.

) Number of outdoor units connected to group is short in group operation from remote controller. Remote controller is not connected with cable. Using the main remote controller connected to a group, start a test operation, specify the unit which does not operate (Unit unconnected to group), and Miscabling of remote controller then check cabling. Remote controller communication circuit error If 230V is incorrectly applied to the remote controller terminal, the remote controller communication circuit fails. Using the main remote controller connected to a group, start a test operation, specify the unit which does not operate (Unit unconnected to group). Remove Fasten receptacle connected to remote controller terminals (A/B), and check the voltage If voltage is not applied, replace P.C. board. (15 to 18V in normal time). After modification of wiring, set up address again and check No.

of the connected indoor units. Countermeasures After modification of wiring, set up address again and check No. of the connected outdoor units. L04 L04 Duplication of outdoor line addresses Line address setup error, occurred after connection between U1, U2 and U3, U4 connectors Modify line address setup of the header unit between lines. (Set up SW 13 and 14 on the interface P.

C. board.) Set up priority to only one indoor unit. L05 (\*) L06 L06 Duplicated of indoor units with priority There are two or more indoor units set up with priority. L08 L08 Address setup error Only indoor addresses of all the connected indoor units are undefined.

Set up address again. ( \* ) [L05]: Displayed on the indoor unit set up with priority [L06]: Displayed on the indoor unit except one set up with priority 17 Monitor Function of Remote Controller Switch When you want to know position of the indoor unit using the address To confirm the unit numbers in a group control; Procedure (Operation while the air conditioner stops) CODE No. SET DATA 18 When using a remote controller with the model name RBC-ATM21E, the following monitor functions can be used. Push Pushing Item code 00 + buttons simultaneously for 4 seconds or more to call up the service monitor mode. button returns the display to the normal display. Display format Item code 10 11 Display format X1 X1 X 100 UNIT No. The indoor unit numbers in a group control are successively displayed, and the corresponding indoor fan is turned on. (Operation while the air conditioner stops) Data name Unit Data name Unit R.



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C. No.

Room temp (During control) C Compressor 1 discharge temp (Td1) Compressor 2 discharge temp (Td2) High-pressure sensor detention pressure (Pd) Low-pressure sensor detention pressure (Ps) Suction temp (TS) Outdoor heat exchanger temp (TE) Temp at liquid side (TL) Outside ambient temp (TO) Low-pressure saturation temp (TU) Compressor 1 current (I1) Compressor 2 current (I2) PMV1 + 2 opening Compressor 1, 2 ON/OFF Outdoor fan mode Outdoor unit HP C C MPa 01 Indoor unit data (NOTE 2) Room temp (Remote controller) C 12 Outdoor unit individual data (NOTE 4, 5) Push or more. Unit No + buttons simultaneously for 4 seconds 02 Indoor suction temp (TA) C X1 is displayed. ! End SET CL UNIT 03 Indoor coil temp (TCJ) C X1 13 MPa X 100 The fans of all the indoor units in a group control are turned on. Every pushing UNIT 04 Indoor coil temp (TC2) C X1 14 15 16 17 18 19 1A 1b 1d 1E C C C C A A pulse HP X1 X1 X1 X1 X1 X 10 X 10 X 1/10 (NOTE 3) 0 to 31 X1 button, the indoor unit numbers in the group control are successively displayed. The firstly displayed unit No indicates the address of the header unit. Only fan of the selected indoor unit is turned on. 05 Indoor coil temp (TC1) C X1 Operation procedure 06 Indoor discharge temp (Tf) (NOTE 1) C X1 08 Indoor PMV opening pulse X 1/10 ! End 0A System data No. of connected indoor units unit ! Push button to finish the procedure. All the indoor units in group control stop. 0b Total HP of connected indoor units HP X 10 0C No. of connected outdoor units unit 0d Total HP of indoor units HP X 10 To confirm all the unit numbers from an arbitrary wired remote controller; Procedure (Operation while the air conditioner stops) SET DATA 1F CODE No. UNIT No. (NOTE 1) Only a part of indoor unit types is installed with the discharge temperature sensor. This temperature is not displayed for other types. (NOTE 2) When the units are connected to a group, data of the header indoor unit only can be displayed.

(NOTE 3) 01 : Compressor 1 only is ON. 10 : Compressor 2 only is ON. 11 : Both compressor 1 and 2 are ON. (NOTE 4) For item code, an example of the header unit is described. (NOTE 5) The upper digit of the item code indicates the outdoor unit No.

1 : Header unit (A) 2 : Follower unit (B) 3 : Follower unit (C) 4 : Follower unit (D) The indoor unit No and position in the same refrigerant piping can be confirmed. An outdoor unit is selected, the indoor unit numbers in the same refrigerant piping are successively displayed, and then its indoor unit fan is turned on. R.C. No. " \$ SET CL Push the timer time for 4 seconds or more. + buttons simultaneously UNIT Confirmation of indoor unit address and position by using the remote controller Confirmation of indoor unit address and the position When you want to know the indoor address though position of the indoor unit itself can be recognized; UNIT No. Firstly, the line 1, item code displayed. (Select outdoor unit.) Using address.

UNIT (Address Change) is + buttons, select the line !# CODE No. ! Using SET button, determine the selected line address. Operation procedure The indoor unit address, which is connected to the refrigerant pipe of the selected outdoor unit is displayed and the fan is turned on. Procedure (Operation while the air conditioner operates) button. ! " # \$ End If it stops, push Push UNIT Operate " Every pushing UNIT button, the indoor unit numbers in the identical pipe are successively displayed. UNIT button. is displayed on the LCD. UNIT Only fan of the selected indoor unit operates. played and the fan is turned on. [To select another line address] The unit NO (Disappears after several seconds) The displayed unit No indicates the line address and indoor address.

(If there is other indoor unit connected to the same remote controller (Group control unit), other unit No is displayed every pushing UNIT SET CL # \$ Push CL button to return to procedure 2 ). The indoor address of another line can be successively confirmed. Operation procedure UNIT button.) Push button to finish the procedure. 19 Continued 20 Change of indoor address from remote controller Change of indoor address from wired remote controller To change the indoor address in individual operation (Wired ! SET DATA Push (When the setup operation with automatic address has finished, this change is available.) Procedure (Operation while the air conditioner stops) buttons for 4 Push simultaneously SET + CL + seconds or more. remote controller : Indoor unit = 1 : 1) or group control CODE No. UNIT No. R.C.

No. The indoor unit address, which is connected to the refrigerant pipe of the selected outdoor unit is displayed and the fan is turned on. First the current indoor address is displayed on the setup data. (Line address is not displayed.) The indoor address of the setup data moves up/down by the timer time SET button. SET DATA CODE No. UNIT No. R.C. No.

" # \$ (The firstly displayed unit No indicates the header unit in group control.) In group control, select an indoor unit No to be changed by Change the setup data to a new address. & SET CL Push buttons. SET button to determine the setup data. End SET CL & \$ UNIT UNIT (The fan of the selected indoor unit is turned on.) ! " # \$ Using the setup temp. set to the item code. buttons, change buttons, UNIT ! \$% Every pushing button. UNIT button, the indoor unit numbers in the identical pipe are successively displayed. @@Push Operation procedure ! @@@@to be changed at the next time.

@@@@@@@@No. Method CL Section A CODE No. UNIT No. R.C.

@@@@@@@@The firstly displayed unit No. indicates the header indoor unit address in the group control. In this time, the fan of the selected indoor unit is turned on. Every pushing UNIT UNIT No. 02 R.

C. @@@@@@@@@@board of the header unit. No. @@@@@@@@@@Starts all the connected indoor units collectively. Note) The contents follow to the setup of remote controller. Stops all the connected indoor units collectively. Starts the specified indoor unit. Notes) The contents follow to the setup of remote controller. @@[Release] Return SW01, SW02, SW03 to 1. [Setup] Push SW04 for 2 seconds or more with SW012, SW026, SW031.

[Release] Return SW01, SW02, SW03 to 1. [Setup] Push SW04 for 2 seconds or more with SW012, SW027, SW031. [Release] Return SW01, SW02, SW03 to 1. [Setup] Push SW05 for 2 seconds or more with SW012, SW027, SW031. [Release] Return SW01, SW02, SW03 to 1. [Setup] Push SW04 for 2 seconds or more set SW01 16 and set SW02 and SW03 to address No. (1 to 64) to be started.



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[Release] Return SW01, SW02, SW03 to 1. Section A [C] Section A [H] Section B [C] Section B [H] 1 SW02 1 2 3 4 5 6 7 8 9 SW03 3 Refrigerant name Section A Section B [CH] [ 11] [ 11] is displayed on Section B for 5 seconds. Section A Section B [CH] [ 00] [ 00] is displayed on Section B for 5 seconds. Individual stop Stops the specified indoor unit. Note) The other indoor units keep the status as they are. Individual test Operates the specified indoor unit. operation Note) The other indoor units keep the status as they are. NOTE 1) This start/stop function only sends the signals from the outdoor unit to the indoor unit, such as start, stop, operation mode, etc.

It does not resend the signals even if the indoor unit does not follow the sent signals. NOTE 2) The above controls are not used during abnormal stop. SW04 SW05 Interface P.C. board 7-segment display[A] 7-segment display[B] Section A Section B [ ] [ ] Section A: Displays the corresponding indoor address. Section B: Displays [ 11] for 5 seconds from operation-ON. [Setup] Section A Section B Push SW05 for 2 seconds or more set [ ] [ ] SW01 16 and set SW02 and SW03 Section A: to address No. (1 to 64) to be stopped. Displays the corresponding [Release] indoor address. Return SW01, SW02, SW03 to 1. Section B: Displays [ 00] for 5 seconds from operation-OFF. [Setup] Section A Section B Push SW04 for 10 seconds or more [ ] [ ] set SW01 16 and set SW02 and Section A: SW03 to address No. (1 to 64) to be Displays the corresponding operated. indoor address. [Release] Return SW01, SW02, SW03 to 1.

Section B: FF] for 5 seconds Displays [ from test operation-ON. Displays refrigerant name. A B Model with refrigerant R410A r4 10A Model with refrigerant R407C r4 07C System capacity A [ 5] to [48] :5 to 48HP B [HP] No. of outdoor units A [ 1] to [ 4] :1 to 4 units B [ P] No. of connected indoor units/A [ 0] to [48] : 0 to 48 units (No. of connected units) No. of units with cooling thermo ON B [CO] to [C48] : 0 to 48 units (No. of units with cooling thermo ON) No. of connected indoor units/A [ 0] to [48] : 0 to 48 units (No. of connected units) No.

of units with heating thermo ON B [HO] to [H48] :0 to 48 units (No. of units with heating thermo ON) Compressor command A Data is displayed with hexadecimal notation correction amount B Release control A Normal time :[ r], During release control: [r1] B Oil-equalization control A Normal time :[oiL-0] B During oil equalization : [oiL-1] Oil-equalization request A Displays with segment LED lighting pattern B Display A Display B A F in the left figure goes on: FGB Header requests oil equalization. C in the left figure goes on: EC Follower requests oil-equalization. D Dp U2 U3 U4 (Outdoor unit number) A

During sending of cooling refrigerant oil recovery signal : [C1]. Normal time :[C] B During sending of heating refrigerant oil recovery signal : [H1]. Normal time :[H] Automatic address A [Ad] B Automatic addressing : [FF], Normal time : [ ] Demand operation A [dU] B Normal time :[ ]. In 50% to 90% : [ 50 to 90] When controlling by communication line input : [E50 to E90] Optional control (P.C. board input) Displays optioned control status A Operation mode selection : In heating with priority (Normal) h.\* c.

\* Priority on cooling Heating only H.\* Cooling only C.\* Priority on No of operating indoor units. n.\* Priority on specific indoor unit U.\* Batch start/stop :Normal \*.\* .1. Start input \*.

0. Stop input \*.\* . Night low-noise operation : Normal \*.\* . Operation input Snow fan operation : Normal \*.\* . Operation input \*.\* . Option control (BUS line input) Same as above Unused A B Refrigerant/oil recovery operation Display contents 10 11 12 13 SW01 SW02 SW03 <Rotary swich> 14 15 16 B \*.

\*.\* \*.\*  
\*.\* \*.\*  
\*.\* \*.\*.\*.\*.\*.\*.\*.\*.

\*.\* \*.\*.\*.\*.\*.\*.\*.\*.\*.  
\*.\* \*.\*.\*.

\*.I.\*.\*mark: Indicates none on display 25 Continued Data display of outdoor unit information (Displayed on each outdoor unit) 26 ! Data display of outdoor cycle (Displayed on each outdoor unit) SW01 SW02 SW03 Display contents SW01 1 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 A Displays outdoor unit number: [U1] to [U4] B Displays check code (Latest code only is displayed.) There is no check code: [ ] There is sub-code: Check code [\*\*\*] for 3 seconds, sub-code [\*\*] for 1 second alternately <SW04> push function : Fan of unit with error only drives.

7-segment A: [E1] <SW04 + SW05> push function : Fan of normal unit only drives. 7-segment A: [E0] <SW05> push function : Interruption of fan operation function A B Operation mode A Stop: [ ] Normal cooling: [ C], Normal heating: [ H], Normal defrost: [ J] B Outdoor unit HP A 5HP: [ 5], 6HP: [ 6], 8HP: [ 8], 10HP: [10], 12HP: [12] B [HP] Compressor operation command A No.1 compressor operation command is displayed. Data display with Hexadecimal notation: [00 to FF] B No.2 compressor operation command is displayed. Data display with Hexadecimal notation: [00 to FF] <SW04> push function : Inverter frequency is exchanged to decimal notation. 7-segment display (A/B) : [\*\*] [\*\*H] (Normal display by pushing <SW05>) Outdoor fan step A [FP] B Step 0 to 31: [ 0 to 31] Compressor backup A Displays No.1 compressor setup status Normal: [ ], Backup setup: [C1] B Displays No.2 compressor setup status Normal: [ ], Backup setup: [C2] A B Control valve output data Displays control output status of solenoid valve A B H. 1 4-way valve: ON 4-way valve: OFF H.

0 SV2: ON /SV5: OFF 5. 0 2. 1 SV2: OFF /SV5: ON 5. 1 2. 0 SV3A: ON /SV3B: OFF /SV3C: OFF /SV3D: OFF 000 3. 1 SV3A: OFF /SV3B: ON /SV3C: OFF /SV3D: OFF 3. 0 100 SV3A: OFF /SV3B: OFF /SV3C: ON /SV3D: OFF 3. 0 010 SV3A: OFF /SV3B: OFF /SV3C: OFF /SV3D: ON 3. 0 001 SV41: ON /SV42: OFF 4. 1 0 SV41: OFF /SV42: ON 4.

0 1 PMV1 /PMV2 opening Displays opening data (Decimal) (Total opening) \*.\* . P \*\*\* . P \*1 Oil level judgment status A [oL] <SW05> push SW function: The following data is displayed for 2 seconds. \* During oil shortage in compressor 1: [L ], during oil shortage in compressor 2: [ L ] B Initial display: [ ], Oil level judgment result: [A.#.

\* ] Judgment result of compressor 1 in [#], compressor 2 in [#] (0: Normal, 1, 2: Shortage) is displayed. Error data 1 SW02 1 2 3 4 5 6 7 8 9 SW03 2 10 11 12 13 14 Pd pressure (MPaG) is displayed with decimal data. (MPaG: Approx. 1/10 value of kg/cm2G data) Ps pressure data Ps pressure (MPaG) is displayed with decimal data. PL pressure conversion data Estimated pressure of liquid line (MPaG) is displayed with decimal data.

TD1 sensor data Temperature sensor data (C) is displayed Symbol with decimal notation. Data Symbol displayfor 1 sec. and data display for 3 sec. are Symbol TD2 sensor data alternately displayed. Data Data is displayed in [ \* ]. TS sensor data Symbol Negative data is displayed as [ \* \* \* \* ]. Data TE sensor data Symbol Data Symbol Data TL sensor data Symbol Data TO sensor data Symbol Data TK1 sensor data Symbol Data TK2 sensor data Symbol Data TK3 sensor data Symbol Data TK4 sensor data Symbol Data Pd pressure data Display contents A P d.



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P.S. P.L. td \*td \*tS \*tE \*tL \*to \*F1 \*F2 \*F3 \*F4 \*B \*

\*\*\*.\*\*\*.\*\*\*I\*\*.\*2\*\*.\*\*\*\*.\*\*\*.\*\*\*.\*\*\*.\*\*\*.\*\*\*.\*\*\*.\*\*\*

\*\*\*.\*\*\*.\*" \* This method is used when information of the follower unit is displayed on 7-segment display of the header unit. 3 SW02 Data display of outdoor cycle (Displayed on the header unit) SW01 1 2 3 4 5 6 7 SW03 1 to 3 Error data Installed compressor type Outdoor unit capacity Compressor operation command Fan operation mode Release signal Oil level judgment A [U.\*] \* : SW03 setup number + 1 number (Outdoor unit number U2 to U4) B Check code is displayed.

(Latest check code only) No check code: [ ] A [U.\*] \* : SW03 setup number + 1 number (Outdoor unit number U2 to U4) B A [U.\*] \* : SW03 setup number + 1 number (Outdoor unit number U2 to U4) B 8HP: [ 8]. 10HP: [ 1 0], 5 to 12HP A [U.\*] \* : SW03 setup number + 1 number (Outdoor unit number U2 to U4) B No.

I compressor ON: [C10], No.2 compressor ON: [C01] For unconnected compressor, is displayed. A [U.\*] \* : SW03 setup number + 1 number (Outdoor unit number U2 to U4) B Stop time: [F 0], Mode 31: [F 3 1] A [U.\*] \* : SW03 setup number + 1 number (Outdoor unit number U2 to U4) B Normal time: [r ], Release received: [r 1] A [U.\*] \* : SW03 setup number + 1 number (Outdoor unit number U2 to U4) B Normal time: [ ], Oil shortage: [ L] Display contents (NOTE) The follower unit is setup by changing SW03. SW03 7-segment display A 1 U2 2 U3 3 U4 27 # Continued Data display of indoor unit information (Displayed on the header unit only) SW02 SW03 Display contents 28 & Pulse Motor Valve (PMV) Forced Open Fully/Close fully Function in Outdoor Unit SW01 This function is provided to forcibly open or close fully P.M.V. (PMV1/PMV2) used in the outdoor unit for 2 minutes.

Check connector CN30 I/F P.C. board Check connector CN31 4 5 6 7 8 9 10 11 12 13 1 to 16 1 to 3 Receiving status of indoor BUS communication Indoor check code Indoor capacity (HP) horse power Indoor request command (S code) Indoor PMV opening data Indoor TA sensor data Indoor TF sensor data Indoor TCJ sensor data Indoor TC1 sensor data Indoor TC2 sensor data B Receiving time: [ 1], Not received: [ ] B No check code: [ ] B 0. 2, 0. 5, 0. 8, 1, 1. 2, 1. 7, 2, 2. 5, 3, 3. 2, 4, 5, 6, 8, 1 0, 1 6, 2 0 B Data is displayed with Hexadecimal notation [ 0 to F] : Heating B B B B B Data is displayed with Hexadecimal notation Data is displayed with Hexadecimal notation Data is displayed with Hexadecimal notation Data is displayed with Hexadecimal notation [Open fully] Short-circuit for CN30 on the outdoor interface P.

C. board. [Close fully] Short-circuit for CN31 on the outdoor interface P.C. board.

[Clear] NOTE) Indoor address No. is chosen by changing SW02 and SW03. SW03 SW02 Indoor address 7-segment display A After 2 minutes, the opening returns to the normal opening. Be sure to remove the short-circuited (as short pin, etc.) after confirmation.

'Solenoid Valve Forced Open/Close Function in Outdoor Unit This function is provided to forcibly open each solenoid valve mounted in the outdoor unit by the switch operation on the interface P.C. board in the outdoor unit to using this function, check there is no refrigerant clogging with ON/OFF operation of the solenoid valve. Operation 1 2 3 1 to 16 SW02 setup number 1 to 16 SW02 setup number + 16 1 to 16 SW02 setup number + 32 [01] to [16] [17] to [32] [33] to [48] \$ The latest error code written in EEPROM of each outdoor unit is displayed. (It is used when confirming the error code after power supply has been reset.) Set SW01 to 03 as shown in the following table, and the push SW04 for 5 seconds or more to display an error code. 7-segment display SW02 SW03 Display contents Outdoor EEPROM write-in error code display (Displayed on the header unit only) SW01 1 1 2 3 4 16 The latest error code of the header unit 1 (U1) The latest error code of the follower unit 1 (U2) The latest error code of the follower unit 2 (U3) The latest error code of the follower unit 3 (U4) A E. r E. r E. r E.

r B 1. 2. 3. 4. % Service support function list SW02 SW03 7-segment display [A] Function contents SW01 2 1 2 3 4 5 6 7 11 16 1 to 16 1 [ [ [ [ [ [ [ [ [ [ J J P A C H C r E C H ] 1 ] ] H d r ] ] ] ] Refrigerant circuit and control communication line check function (Cooling operation) Refrigerant circuit and control communication line check function (Heating operation) Indoor PMV forced full open function Indoor remote controller discriminating function Cooling test operation function Heating test operation function Indoor collective start/stop (ON/OFF) function Outdoor refrigerant recovery operation function (Pump down function) Error clear function Solenoid valve forced open/close function Fan forced operation function Outside temp sensor manual adjustment function 6] 2] 8] 4] Indoor No. 1 to 16 unit Indoor No.17 to 32 unit Indoor No.33 to 48 unit Indoor No.49 to 64 unit Indoor individual start/stop (ON/OFF) function 1. Set the switch on the interface P.

C. board SW01 to [ 2 ], SW02 to [ 1 ], SW03 to [ 3 ]. 2. When [H. ] is displayed in 7-segment display [A], keep pushing the switch SW04 for 2 seconds or more.

3. From when [ 2 ] is displayed in 7-segment display [B], SV2 is turned on. 4. After then, ON and OFF of each solenoid valve are exchanged by changing the setup number of the switch SW02. (ON/OFF output pattern of each solenoid valve is as below.

) NOTE 1) Display in 7-segment display [B] is exchanged just when the number of SW02 has been changed, on the other hand, the solenoid valve output is exchanged when SW02 has kept with the same number for 5 seconds or more. NOTE 2) The mark [ ] in the table indicates the corresponding solenoid valve is forcibly turned on. NOTE 3) The mark [ ] in the table indicates ON/OFF of the solenoid valve is controlled based upon the specifications of the air conditioner. NOTE 4) The mark [ ] in the table indicates the corresponding solenoid valve is forcibly turned off with this operation. NOTE 5) The case heater outputs heat air for both compressor and accumulator heaters. SV2 SV5 SV41 SV42 SV3A SV3B SV3C SV3D SV3E 1 [ 2 ] 2 [ 5 ] 3 [ 4 ] 4 [ 3A ] 5 [ 3b ] 6 [ 3C ] 7 [ 3d ] 8 [ 3E ] 9 [ 3 ] 10 to 15 [ ] 16 [ ALL ] [Clear] Return numbers of SW01, SW02, and SW03 on the interface P.C. board to [1/1/1] each. (NOTE) As this function is not based on the specified general control, be sure to release this mode after operation. SW02 [B] 7-segment display Operation pattern of solenoid valve Case heater output relay 2 2 2 16 3 4 to 5 15 1 2 3 4 SW03 [Hr] [Fd] [to] [0] [1] [3] [4] [1] [7] [3] [9] to to to to [1] [3] [4] [6] 1 to 16 SW01 SW-2 7-segment display [A/B] Function contents 1 1 1 [U 1] [ E28 ] Follower unit error / Corresponding unit fan operation function 29 Continued Abnormal Outdoor Unit Discrimination Method <By Fan Operating Function> Backup Operation 30 This function is provided to forcibly operate the fan of the outdoor unit in which an error occurred or the fan of the normal outdoor unit by the switch operation on the interface P.



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C. board in the header unit. To specify which one of the follower units connected to the system was faulty, use this function for the system stop due to a follower unit fault (Check code [E28]). Operation When a trouble occurred at an outdoor unit or at one of the compressors in outdoor unit, the troubled unit or troubled compressor stops and a backup operation (emergency operation) is available by other outdoor units and the compressors. Set up a backup operation following to the procedure below. Before Backup Operation Method of the backup operation differs by the contents of the trouble. Refer to the following table. Trouble contents When a trouble occurred on one of the compressors in the same unit (Note 1) When troubles occurred on the both compressors in the same unit Trouble of compressor coil (Such as defect of compressor coil) When a trouble occurred on refrigerating system parts, fan system parts, or electric system parts When a trouble occurred on temperature sensor or pressure sensor Backup operation method Compressor backup Setup procedure To item 2 <In case to operate the fan in the erroneous outdoor unit only> 1. Check all the switches, SW01, SW02, and SW03 on the interface

P.C.

board in the header unit are set to [1]. [A] 7-segment display [B] Outdoor unit No. Error code display Outdoor unit backup or outdoor unit backup during cooling season (Note 2) To item 3 or item 4 2. Push the push-switch SW04 for 2 seconds or more. 3.

E 1 is displayed on 7-segment display [A]. 4. The fan of the outdoor unit in which error occurred starts operation within approx. 10 seconds when E 1 was displayed. <In case to operate the fans in all the normal outdoor units> 1.

Check all the switches, SW01, SW02, and SW03 on the interface P.C. board are set to [1/1/1]. 2. Push the push-switches SW04 and SW05 at the same time for 2 seconds or more. 3. E 0 is displayed on 7-segment display [A]. 4. The fans of all the normal outdoor units start operation with the Max. fan speed within approx.

10 seconds when E 0 was displayed. [Release] (Note 1) When a trouble of compressor coil, etc occurred, deterioration of the oil is heavy. Therefore do not perform a backup operation; otherwise a trouble of the other outdoor units may be caused. (Note 2) The outdoor unit to be processed with a backup operation should be restricted to one unit in the system of 1 system. Compressor Backup Setup Outline When a trouble occurred on one of the two compressors, follow the procedure below if it is necessary to perform a backup operation by the other normal compressor. 1. Turn off the main power supplies of all the units connected to the system. 2. Set up the switch SW06 on the interface P.C.

board of the outdoor unit with failure compressor as shown below. Work procedure Push the push-switch SW05 on the interface P.C. board in the header unit for 2 seconds or more. The outdoor fan which was operated stops.

\* Check [U. 1] is displayed on 7-segment display [A], and then finish the work. Pulse Motor Valve (PMV) Forced Open/Close Function in Indoor Unit This function is provided to open or close forcibly PMV for 2 minutes in all the indoor units by the switch operation on the interface P.C. board of the header unit.

This function is also used to open PMV fully when turning off the power and executing an operation. Operation [Open fully] Set the switch SW01 on the interface P.C. board of the header unit to [2], SW02 to [3], SW03 to [1], and push SW04 for 2 seconds or more. (Display appears on 7-segment display for 2 minutes as follows.) [P ] [ FF] [Close fully] Set the switch on the interface P.C. board of the header unit SW01 to [2], SW02 to [3], SW03 to [1], and push SW05 for 2 seconds or more. (Display appears on 7-segment display for one minute as follows.) [P ] [ 00] [Clear] Initial setup at shipment from factory No.

1 compressor (Left side) is defective. No.2 compressor (Right front side) is defective. 3. Turn on the main power supplies of all the units connected to the system. Then setup operation for the compressor backup finishes. Bit1 OFF ON OFF SW06 Bit3 Bit2 OFF OFF OFF OFF ON Bit4 OFF OFF OFF After 2 minutes (1 minutes for Close fully ) passed when setup has finished, the opening automatically returns to the normal opening. 31 Continued Outdoor Unit Backup Setup [Setup for header unit] 32 5. Turn on Bit 2 of the Dip SW09 on the interface P.C.

board of the header unit. (Setup not to detect the indoor capacity over) 6. Turn on the power supplies of all the units other than the unit with trouble. As for power supply of the unit with trouble, follow the procedure below. <In case of trouble on the compressor or electric parts system (Compressor, electric system parts, I/F P.

C. board, IPDU P.C. board)> Keep OFF for the main power supply of the unit. <In case of trouble on the refrigerant circuit parts system (Pressure sensor, temperature sensor, refrigerant circuit parts, fan system parts)> Turn on the power supply to protect the compressor.

(Case heater ON) (Although [E19] (Outdoor header unit quantity error) is displayed on 7-segment display after turning on the power supply of the unit, it is not a problem because it is only interruption of communication with the header unit.) Interface P.C. board of the header unit Outline Against a case that a trouble occurs on the outdoor unit, backup operation can be set up to either header unit or follower unit. For the multiple outdoor unit system (Failure of compressor coil), perform an outdoor unit backup operation if the following error modes occurred. Trouble on compressor Trouble on pressure sensor (Pd, Ps) /temperature sensor (TD1, TD2, TS1, TE1, TK1, TK2, TK3, TK4, TL) Note: Backup of the outdoor unit should be restricted to one unit in one system. In case of Trouble on Follower Outdoor Unit (Backup setup for follower outdoor unit) Work procedure 1. Turn off the main power supplies of all the units connected to the system. [Setup for outdoor unit with trouble] 2. Close fully the gas side service valve of the unit with trouble.

3. Leave service valve of the balance pipe of the liquid pipe opened. (To prevent refrigerant stagnation in the unit) However close fully service valve of the liquid pipe when there is PMC leakage in outdoor unit (PMV does not close.). 4. <In case of trouble on the compressor or electric parts system (Compressor, electric system parts, I/F P.C. board, IPDU P.C. board)> After then, keep OFF for the main power supply of the unit with trouble.

<In case of trouble on the refrigerant circuit parts system (Pressure sensor, temperature sensor, refrigerant circuit parts, fan system parts)> Remove the communication (BUS2) connector [CN03] between outdoor units on the interface P.C. board. Setup for outdoor unit with trouble [Setup for the header unit] 5. Turn on Bit 2 of Dip SW09.

7. Error clear is set up from the header unit. 1) Check [U1] [E26] (Decrease of No. of connected outdoor units) is displayed on 7-segment display under condition that the rotary switches SW01/02/03 are set to 1/1/1 on the interface P.



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C.

board. 2) Set the rotary switches SW01/02/03 on the interface P.C. board to 2/16/1, and then push the push SW04 for 5 seconds or more after [Er] [ ] have been displayed on 7-segment display. 3) [Er] [ CL] are displayed on 7-segment display. (Error clear completes.) 4) Return SW01/02/03 to 1/1/1. (It is normal if [U1] [ ] are displayed.) Interface P.C.

board of the header unit 4. Remove communication connector [CN03] on the interface P.C. board only when a trouble occurred on the refrigerant circuit parts system. 2. Close service valve of gas pipe fully. 3. Service valves of the liquid and the balance pipe are kept opened. (However close the liquif valve when a leakage occurred on the outdoor PMV.) 7 Set rotary SW01/02/03 to 1/1/1.

[U1] [E26] are displayed. Set rotary SW01/02/03 to 2/16/1. [Er] [ ] are displayed. Push the push-SW04 for 5 seconds or more. [Er] [ CL] are displayed. Return rotary SW01/02/03 to 1/1/1. [U1] [ ] are displayed. @@@@ @@@@ 10. If a central control device is connected, connect the communication line [U3/U4] of the central control system to the communication line [U3/U4] terminal of the unit selected as the header unit, and connect a relay connector between [U1/U2] and [U3/U4] terminals. Header unit with trouble Outdoor unit selected as the header unit 2.

Close fully the gas side service valve of the unit with trouble. 3. Leave service valve of the balance pipe and the liquid pipe fully opened. (To prevent refrigerant stagnation in the unit) However close fully service valve of the liquid pipe when there is PMV leakage in outdoor unit (When PMV can not be closed fully) 4. <In case of trouble on the compressor or electric parts system (Compressor, electric system parts, I/F P.C. board, IPDU P.C. board)> After then, keep OFF for the main power supply of the unit with trouble. <In case of trouble on the cycle parts system (Pressure sensor, temperature sensor, refrigerat circuit parts, fan system parts)> Remove the communication (Refrigerant circuit) connector [CN03] between outdoor units on the interface P.

C. board. Setup for outdoor unit with trouble 4. Remove communication connector [CN03] on the interface P.C. board only when a trouble occurred on the refrigerant circuit parts system. 2. Close service valve of gas pipe fully. 3. Service valves of the liquid and the balance pipe are kept opened.

(However close the liquif valve when a leakage occurred on the outdoor PMV.) Communication line between outdoor units (U5/U6) Central control system communication line (U3/U4 terminals) Communication line between indoor and outdoor units (U1/U2 terminals) [Selection of header unit] 5. Select a header unit among the follower units based upon the following criteria. If only one follower unit is connected, select it as the header unit. When two or more follower units are connected, select an outdoor unit nearest to the header unit as the header unit.

[Setup for the unit selected as the header unit] 9. Change the connection of communication line between indoor and outdoor from the unit with trouble to the terminals (U1/U2) of the unit selected as the header unit. 10. When a central control device is connected, change the connection of communication line of the central control system from the unit with trouble to the terminals (U1/U2) of the unit selected as the header unit. 6.

Match the setup of SW13 and SW14 on the interface P.C. board with SW setup of the unit with trouble. (Refrigerant system address setup) 7. Turn on Bit 2 of SW09 on the interface P.C. board. (Setup not to detect the indoor capacity over) 8. Match the setup of SW30 Bit 1 and 2 on the interface P.C.

board with SW setup of the unit with trouble. (Setup for end terminal resistance of communication) Outdoor interface P.C. board of the unit selected as the header unit 11. Turn on the power supplies of each outdoor unit. Turn on the main power supplies of all the units other than the unit with trouble. As for power supply of the unit with trouble, follow the procedure below. Leave the main power supply of the unit with trouble as it is. <In case of trouble on the compressor or electric parts system (Compressor, electric system parts, I/F P.C.

board, IPDU P.C. board)> Keep OFF for the main power supply of the unit. < In case of trouble on the refrigerant circuit parts system (Pressure sensor, temperature sensor, refrigerat circuit parts, fan system parts)> Turn on the main power supply to protect the compressor. (Case heater ON) (Although [E19] (Outdoor header unit quantity error) is displayed on 7-segment display after turning on the power supply of the unit, it is not a problem because it is only interruption of communication with the header unit.

) Then all the backup setup for the header unit has finished. Check the operation. 6. Set SW13 and SW14 to same values as those of the unit with trouble. 7. Turn on Bit 2 of SW09. 8. Set Bit 1, 2 of SW30 to same values as those of the unit with trouble. .



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