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You can read the recommendations in the user guide, the technical guide or the installation guide for TOSHIBA MMY-MAP1001HT8-E. You'll find the answers to all your questions on the TOSHIBA MMY-MAP1001HT8-E 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-MAP1001HT8-E
User guide TOSHIBA MMY-MAP1001HT8-E
Operating instructions TOSHIBA MMY-MAP1001HT8-E
Instructions for use TOSHIBA MMY-MAP1001HT8-E
Instruction manual TOSHIBA MMY-MAP1001HT8-E

TOSHIBA FILE NO. A07-004

SERVICE MANUAL

SUPER
SUPER MODULAR MULTI

HFC
R410A

* This manual describes about the model which is installed with the passive filter to the fan driving circuit as the measure against the Europe Harmonic Regulation EN61000-3-12.
The indoor units are same as those of the existing models and they are not especially changed.
For the standard servicing method, refer to the FILE NO. A03-009, A04-008 and A05-004-1.

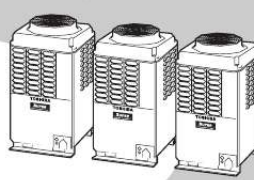
New models compliance with EMC: IEC61000-3-12

< Outdoor Unit >

Heat Pump Model
MMY-MAP0501HT8-E, MMY-MAP0601HT8-E, MMY-MAP0801HT8-E,
MMY-MAP1001HT8-E, MMY-MAP1201HT8-E

Cooling Only Model
MMY-MAP0501T8-E, MMY-MAP0601T8-E, MMY-MAP0801T8-E,
MMY-MAP1001T8-E, MMY-MAP1201T8-E

Heat Recovery Model
MMY-MAP0802FT8-E, MMY-MAP1002FT8-E, MMY-MAP1202FT8-E



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Manual abstract:

@@@ For the standard servicing method, refer to the FILE NO. @@@ 2. WIRING DIAGRAM

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..... 4 2-1. Outdoor Unit .

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4 3. TROUBLESHOOTING (Passive Filter Circuit)

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CONFIGURATION OF CONTROL CIRCUIT

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... 9 4-1. Outdoor Unit .

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..... 9 5. RUNNING CHANGE

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13 5-4. Refrigerant Recovery When Replacing the Compressor

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Replacing Method of Parts

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CN501 (RED) CN508 (RED) CN509 (BLK) CN510 (WHI) CN513 (BLU) CN512 (BLU) CN306 (WHI) CN308 (BLU) CN502 (WHI) CN503 (PNK) CN504 (WHI) ON 5 4 3 2 1 5 4 3 2 1 BLK WHI BLU RED PNK 5 4 3 2 1 5 4 3 2 1 4321 4321 4321 4321 4321 54321 54321 4321 1 1 3 3 1 1 3 3 CN500 (WHI) 321 321 654321 654321 654321 654321 432 4321 CN01 CN03 (BLU) (WHI) CN300 (WHI) CN301 (WHI) BLK Pressure Sensor PS Option Board 63H1 63H2 Option Board Option Board Option Board Option Board Pressure Sensor PD FAN IPDU P.C. Board MCC-896, 897 Power supply P.C. board for FAN MCC-1439 U1 U2 U5 U6 Indoor unit Outdoor unit BLU 77 2-1. Outdoor Unit U1 U2 U3 U4 CR503 RY503 BLK WHI BLU RED PNK CN25 3 (WHI) 3 YEL CN26 (BLU) CN06 (WHI) 1 1 54321 54321 SV42 BLU 5 5 Central remote CN311(BLU) controller BLU 33 SV41 BLU 11 CN505 (GRN) CN507 (YEL) CN514 (BLK) ON 1 2 3 4 33 11 33 11 33 11 BLK 22 BLK 11 TL (WHI) BLK Option board BLU BLU RED WHI BLK GRY T6.3A FUSE CR 518 CR511 CR521 CR 510 T6.3A FUSE T6.3A FUSE BLU(BLK) TK4 (GRN) BLU(BLK) BLK BLU(BLK) TK3 (BLU) BLU(BLK) BLU(BLK) TK2 (BLU) BLU(BLK) SW11 ON 1 2 3 4 SW06 SW08 CN523 (YEL) CN30 CN521 (WHI) CN32 SW04 SW05 SW06 CN31 SW07 SW09 SW10 CN516 (RED) ON 1 2 3 4 ON 1 ON 1 2 3 4 ON 1 2 3 4 SW12 SW13 SW14 CN515 (GRN) ON 1 2 3 4 ON 1 2 3 4 ON 1 2 3 4 11 BLU(BLK) W V U CN11 CN10 CN09 CN22 CN23 3 TK1 (BLK) 2 1 TO (BLK) 2 1 TE1 (BLK) CN18 (RED) CR502 RY502 PNK RED BLU WHI BLK 12345 12345 3 3 CN17 (BLK) Interface Control P.

C. Board MCC-1429 SW30 CN310(WHI) 1 1 CR504 RY504 BLK 2 BLK 1 BLK 2 BLK 1 BLU(BLK) 3 IPDU P.C. Board (1) MCC-1502 CN15 CN13 CR506 RY506 11 22 BLU 33 BLK WHI CM1 RED YEL BLU CN03 T CN02 S CN01 R BLK WHI RED 2. WIRING DIAGRAM CR507 RY507 CN21 WHI BLU Reactor CN20 WHI CR508 CN800 RY508 1 2 3 (Srvce) 4 5 6 YEL YEL BLK 4 3 SV51 BLU 2 2 BLU 11 CN312(WHI) BLU 33 SV2 BLU 11 CN324(RED)BLU 33 SV3A BLU 11 CN313(YEL) BLU 33 SV3B BLU 11 CN314(BLK) BLU 33 SV3C BLU 11 + + BLK CR509 RY509 BLU 1 1 2 CN321 2 (RED) 1 2 3 4 CN323 1 1 2 3 4 (WHI) 1 2 CN317 4 3 2 1 2 (BLU) 21 7 7 5 5 3 3 1 1 PNK PNK PNK PNK BRN ORN ORN RED WHI BLK GRY BLK WHI BLU RED PNK BLU BLK(PNK) Compressor Pulse motor valve RED L1 L2 L3 N SV 3D SV 3E BLK(PNK) 2-way valve coil Comp2 Accumulator heater 4WV1 BLK BLK 31 31 ORN ORN Comp1 CN25 3 (WHI) 3 1 3 Earth screw Power Supply, 3phase 380-415V 50Hz 380V 60Hz L1 L2 L3 N RED WHI BLK GRY W V U 1 1 CN26 (BLU) 54321 54321 CN06 (WHI) BLK WHI BLU RED PNK Symbol Parts name 1 2 3 4 CN400 3 2 1 1 2 3 4 (WHI) CN325 (YEL) PNK RED BLU WHI BLK Model: MMY-MAP0501HT8-E, MMY-MAP0601HT8-E, MMY-MAP0801HT8-E, MMY-MAP1001HT8-E, MMY-MAP1201HT8-E 4 D600 D601 D602 D603 D604 CN511 (GRN) 33 11 SW01 CN100 (BLK) SW02 SW03 4 3 2 1 4 3 2 1 CN802 Flash RY510 RY511 RY521 CN307(WHI) CN305(RED) CN402 Transformer WHI CN401 RED CN600(WHI) 55 44 33 22 11 CN316(WHI) 11 BRW CR516 RY516 Noise filter P.C. board MCC-1366 CN21 CN01 CN02 CN03 CN17 CN18 CN19 CN04 CN20 CN22(WHI) CN23(BLU) 1 1 3 3 1 1 3 3 PTC Themistor RED Mg-SW 12 3 5 4 6 A1 A2 RED OCR 2 4 6 33 Heater 1 CN315(BLU) 11 BRW 1 2 3 4 5 6 7 8 9 Color indication CR517 RY517 33 T Heater 2 RY518 RED RED RED WHI BLK BLK GRY GRY GRY L1 RED : RED WHI : WHITE YEL : YELLOW BLU : BLUE BLK : BLACK GRY : GRAY PNK : PINK ORN : ORANGE BRN : BRWN VLT : VIOLET L3 54321 54321 CN18 (RED) 3 3 1 1 CN17 (BLK) Parts layout U1 U2 U3 U4 U5 U6 Fan IPDU MCC-896 Connecting terminal Noise filter P.C. board MCC-1366 MGSW OCR

Power supply for fan MCC-1439 L1 L2 L3 N Power supply terminal Comp. IPDU No.

1 MCC-1502 Comp. IPDU No.2 MCC-1502 Interface control P.C. board (I/F) MCC-1429 IPDU Board (2) MCC-1502 BLK WHI CM2 RED YEL BLU CN11 CN10 CN09 CN22 CN23 CN15 CN13 YEL BLU CN03 T CN02 S CN01 R BLK WHI RED CN08 WHI CN07 WHI Passive filter Reactor CM1, CM2 PMV1, PMV2 SV2, SV41, SV42, SV51, SV3A, SV3B, SV3C, SV3D, SV3E 4WV1 COMP1, COMP2 TS1 TD1, TD2 TE1 TO TK1, TK2, TK3, TK4 TL HEATER1, HEATER2, ACCUMULATOR FM PS PD 63H1, 63H2 MG-SW OCR 4-way valve coil Compressor case thermo.

Pipe temp. sensor (Inlet) Pipe temp. sensor (Outlet) Heat exchange temp. sensor Air temp. sensor Oil temp.

sensor Liquid temp. sensor Case heater, 230V, 26W Fan motor (DC) Low pressure sensor High pressure sensor High pressure switch Magnet switch Overcurrent relay Electric parts box Passive filter box 1.



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The two-dot chain line indicates wiring at the local site, and the dashed line indicates accessories sold separately and service cables, respectively. 2, ., and indicate the terminal blocks and the numerals indicate the terminal numbers. 3. indicates P.C. board. * Be sure to fix the electric parts cover surely with two screws.

(Otherwise water enters into the box resulting in a trouble.) Passive filter RED CN01(WHI) Reactor Except 5HP, 6HP WHI YEL YEL + BLU 22 11 + YEL FM RED BLU 11 22 12 12 MCC-1580 ~ U1 U2 U3 U4 U5 U6 PMV1 63H1 63H2 PMV2 Pressure Sensor PS Option Board Option Board Option Board Option Board Option Board Pressure Sensor PD BLU BLU WHI WHI RED BLK WHI RED BRN BLU ORN YEL WHI RED BRN BLU ORN YEL WHI RED BLK WHI RED WHI BLK TD1 (YEL) U + V W TD2 (RED) TS1 (GRY) 12345 12345 12345 BLU TE1 (BLU) YEL GRY RED CN01 (WHI) 33 11 33 11 BLK 22 BLK 11 BLU(BLK) BLU(BLK) BLU(BLK) BLU(BLK) 21 21 654321 654321 CN301 (WHI) CN509 (BLK) CN510 (WHI) CN513 (BLU) CN512 (BLU) CN306 (WHI) CN308 (BLU) CN502 (WHI) CN503 (PNK) CN504 (WHI) ON SW30 321 321 CN500 (WHI) CN501 (RED) CN508 (RED) 654321 654321 432 4321 43 1 4321 4321 4321 4321 54321 54321 4321 4321 1 1 3 3 1 1 3 3 3 CN01 CN03 (BLU) (WHI) CN300 (WHI) U1 U2 U5 U6 Indoor unit Outdoor unit FAN IPDU P.C. Board MCC-896, 897 5 4 3 2 1 5 4 3 2 1 GRY RED U1 U2 U3 U4 BLU 77 SV42 Central remote controller BLU CR503 RY503 Interface Control P.C. @@@@IPDU P.C. @@@@board for FAN 5 5 55 WHI MCC-1439 44 CN503 BLU 3 3 (WHI) CN501 3 3 RED (RED) 22 PNK CN504 CN505(RED) 1 1 11 BLU YEL 33 SV41 CN507 (YEL) CN25 3 (WHI) 3 YEL BLU TK2 (BLU) CN26 (BLU) 1 1 CN514 (BLK) ON 1 2 3 4 33 11 33 11 33 11 BLK 22 BLK 11 TL (WHI) BLK BLU(BLK) TK4 (GRN) BLU(BLK) BLK BLU(BLK) TK3 (BLU) BLU(BLK) BLU(BLK) BLU(BLK) SW11 ON 1 2 3 4 SW06 SW08 CN31 CN523 (YEL) CN30 CN521 (WHI) CN32 SW04 SW05 SW06 SW07 SW09 SW10 CN516 (RED) ON 1 2 3 4 ON 1 ON 1 2 3 4 ON 1 2 3 4 SW12 SW13 SW14 CN515 (GRN) ON 1 2 3 4 ON 1 2 3 4 ON 1 2 3 4 11 BLU(BLK) TK1 (BLK) TO (BLK) BLK WHI BLU RED PNK CN310 (WHI) CR504 RY504 BLK 22 BLK 11 BLK 22 BLK 11 BLK 22 BLK 11 BLK 22 BLK 11 BLU(BLK) 33 54321 54321 CN06 (WHI) W V U PNK RED BLU WHI BLK BLU CR502 RY502 11 RED 12345 12345 CN18 (RED) 3 3 CN17 (BLK) 1or .C. Is jumper setup of outdoor I/F P board correct? .

C. @.C. @.C.

NO Is the connector of the power supply P board connected certainly? .C. Power supply P board for FAN MCC-1439 .C. The connector No. CN501, CN502, CN503, CN505, CN506, CN507? YES Is the passive filter relay connector connected? YES Is the electric fuse of a Power supply P board for FAN normal? .C. @.C. @@@@.C. @.C. @@@@to be replaced IPDU 1 IPDU 2 IPDU 1, 2 Fan IPDU IPDU 1, fan IPDU IPDU 2, fan IPDU IPDU 1, 2, fan IPDU, I/F IPDU P board error .C.

03 04 05 06 07 Both IPDU (No.1, No.2) and fan IPDU did not return the communication. Replace IPDU P board with trouble. .C. 7 <SHRM Series (A05-004-1) > Check code name Check code name Cause of operation 1. 2. 3. 4.

Incorrect model setup in service for I/F P board .C. @@@@ "I/F control P board" error, "Power supply P.C. @@@@board correct? @@@@board correct? @@@@board? NO Is the connector of the power supply P.

C. board connected certainly? "Power supply P.C. board for FAN MCC-1439" The connector No. CN501, CN502, CN503, CN505, CN506, CN507? YES Is the passive filter relay connector connected? YES Is the electric fuse of a "Power supply P.

C. board for FAN" normal? F500 10A 250V~ YES Is the output voltage of a "Power supply P.C. board for FAN" normal? @@@@@board. @@@@board. @@@@And correct the fault parts. I/F P.C. board error IPDU P.C.

board error Auxiliary code 01 02 03 04 05 06 07 P.C. @@@@NO Replace fan power supply on P.C. board. On the fan power supply P.C. @@@@board with trouble. 8 4. CONFIGURATION OF CONTROL CIRCUIT 4-1.

Outdoor Unit Power P.C. @@@@RUNNING CHANGE 5-1. @@@@@Explanation for detailed operation method, etc. @@@@@Refrigerant Recovery When Replacing the Compressor n How to operate the system during repairing of the defective outdoor unit MMY-MAP0501HT8(-E), MMY-MAP0601HT8(-E), MMY-MAP0801HT8(-E), MMY-MAP1001HT8(-E), MMY-MAP1201HT8(-E) <Work procedure> 1.

Follow to the abovementioned "13-1. Refrigerant Recovery in the Troubled Outdoor Unit". 2. Next, recover the refrigerant in the system by using a recovery device, etc. The refrigerant amount to be recovered is determined based upon the capacity of the troubled outdoor unit.

(See the following table.) Example) In a case of backup for 10HP-outdoor unit in 30HP system: in the original system HP (30HP system) = 36.0kg Refrigerant amount in system HP (20HP system) after backup = 27.0kg Refrigerant amount to be recovered = 36.0 - 27.0 = 9kg 3. For the unit which refrigerant has been recovered, execute "Outdoor Unit Backup Setup" in another section. All the work has finished. System HP 5 6 8 10 12 14 16 18 20 22 5 6 8 10 12 8 8 10 10 8 12 8 12 10 10 10 8 12 10 10 12 12 12 6 8 8 10 8 10 8 12 8 10 10 8 10 8 12 10 10 10 12 12 12 8 8 10 8 10 8 10 8 12 10 10 10 12 12 8 10 10 10 10 12 8 8 8 8 6 Refrigerant amount (kg) 8.5 8.

5 13.5 14.5 15.5 20.5 24.0 24.0 27.0 32.5 29.0 32.

0 31.0 32.0 34.0 36.0 42.

0 37.0 42.0 39.0 42.0 40.

0 42.0 43.0 44.0 46.0 48.0 50.0 Combination of outdoor units 24 26 28 30 32 34 36 38 40 42 44 46 48 15 5-5. Replacing Method of Parts <SMMS Series (A03-009, A04-008) > No. 6 Part to be exchanged Pressure sensor positions of 2-way valve coil Work procedure Remarks SV3C Rear side SV3A SV3D SV3B

Liquid tank SV3E Accumulator SV2 Oil separator SV41 Compressor (1) SV42 Compressor (2) PS sensor SV5 Front side Inverter assembly PD sensor 7 Temperature sensor positions and identification <Front side of air conditioner> TS1 sensor (Gray) TD1 sensor (Yellow) TD2 sensor (Red) TL sensor (White) Compressor (1) Compressor (2) Accumulator 16 No. 7 Part to be exchanged Temperature sensor positions and identification Work procedure Remarks <Rear side of air conditioner> Rear side TK sensor (White) Accumulator TK1 sensor (Black) Accumulator side (Rear side) Oil separator TK4 sensor (Green) Liquid tank TK2 sensor (Blue) Front side Front side 8 Attachment/ detachment of pipe fixing rubber In this air conditioner, (segmentation system) eyeglass rubber and SUS fix band are adopted for fixing the vibration system as one measures to improve the reliability.

<Used positions of SUS fixing band: Total 5 positions> MAP1201H, 1001H, 0801H: Ø8.0 Ø25.4 MAP0601H, 0501H: Ø8.0 Ø19.05 between SE3E valve and suction pipe Ø6.35 Ø15.88 between SV3C valve and discharge pipe Ø8.0 Ø19.05 between SV42 valve and suction pipe Ø8.



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