

Revision D : • Parts numbers of indoor fan motor and motor band have been changed.

Some descriptions have been modified.

Please void OB369 REVISED EDITION-C.

INDOOR UNIT SERVICE MANUAL

No. OB369 REVISED EDITION-D



Outdoor unit service manual MU-GA•VB Series (OB370)

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NOTE:

This service manual describes technical data of the indoor units. RoHS compliant products have <G> mark on the spec name plate. For servicing of RoHS compliant products, refer to the RoHS PARTS LIST (RoHS compliant).

Use the specified refrigerant only

Never use any refrigerant other than that specified.

Doing so may cause a burst, an explosion, or fire when the unit is being used, serviced, or disposed of.

Correct refrigerant is specified in the manuals and on the spec labels provided with our products.

We will not be held responsible for mechanical failure, system malfunction, unit breakdown or accidents caused by failure to follow the instructions.

Revision A :

• RoHS PARTS LIST has been added.

Revision B:

- Indoor heat exchanger of MS-GA80VB E1 has been changed.
- PARTS LIST and RoHS PARTS LIST have been changed.

Revision C :

• Another type of the electronic control P.C. board (TYPE 2) has been added to the original one (TYPE 1). They are both compatible with MS-GA50/60/80VB- E1.

Revision D:

- Parts numbers of indoor fan motor and motor band have been changed.
- Some descriptions have been modified.

1 TECHNICAL CHANGES

MS-A24WV -E1 → MS-GA60VB -E1

MS-A30WV -E1 → MS-GA80VB -E1

1. Model name has been changed.

Indication of capacity has been changed. (BTU→kW)

2. Grille design has been changed.

3. Unit size has been changed.(W 1,100mm×H 325mm×D 227mm → W1,100mm×H 325mm×D 258mm)

2 PART NAMES AND FUNCTIONS



ACCESSORIES

		MS-GA50VB MS-GA60VB MS-GA80VB
1	Installation plate	1
2	Installation plate fixing screw 4 × 25 mm	7
3	Remote controller holder	1
4	Fixing screw for $\textcircled{3} \times 3.5 \times 1.6$ mm (Black)	2
5	Battery (AAA) for remote controller	2
6	Wireless remote controller	1
0	Felt tape (Used for left or left-rear piping)	1

REMOTE CONTROLLER

MS-GA50VB MS-GA60VB MS-GA80VB



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SPECIFICATION

Indoor model		Indoor model MS-GA50VB		MS-GA60VB
	Function		Cooling	Cooling
	Power supply		Single phase 230V, 50Hz	Single phase 230V, 50Hz
Capacity	Air flow(High/Med./Low)	m³ /h	768/642/528	768/672/588
_	Breaker capacity	А	10	10
Electrical data	Running current	А	0.30	0.30
Electi data	Power input	W	60	60
da	Power factor	%	87	87
	Fan motor current	Α	0.30	0.30
	Model		RC4V32-AA	RC4V32-AA
Fan motor	Winding	Ω	WHT-BLK 293	WHT-BLK 293
Fan mot	resistance(at 20℃)	52	BLK-RED 146	BLK-RED 146
	Dimensions W×H×D	mm	1,100×325×258	1,100×325×258
	Weight	kg	16	16
	Air direction		5	5
	Sound level(High/Med./Low)	dB	42/38/34	45/41/37
rks Ial	온 Fan speed(High/Med./Low) rpm		1,070/920/780	1,070/960/850
Dec	Image: Second state Fan speed(High/Med./Low) rpm Image: Second state Fan speed regulator Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state <		3	3
l v e			10	10
	Thermistor RT12(at 25°C)	kΩ	10	10
	Remote controller model		KM04B	KM04B

Indoor model			MS-GA80VB
Function			Cooling
	Devier eventy		Single phase
	Power supply		230V, 50Hz
Capacity	Air flow (High/Med./Low)	m³ /h	960/822/684
-	Breaker capacity	А	10
Lice	Running current	А	0.34
Electrical data	Power input	W	69
ĞΠ	Power factor	%	88
	Fan motor current	А	0.34
	Model		RC4V40-AA
Fan motor	Winding	Ω	WHT-BLK 138.2
μĔ	resistance (at 20°C)	32	BLK-RED 159.0
	Dimensions W×H×D	mm	1,100×325×258
	Weight	kg	16
	Air direction		5
	Sound level (High/Med./Low)	dB	47/42/37
l m s	Fan speed (High/Med./Low)	rpm	1,280/1,130/970
Special remarks	Fan speed regulator		3
Le Sp	Thermistor RT11(at 25°C)	kΩ	10
	Thermistor RT12(at 25℃)	kΩ	10
	Thermistor RT13(at 25℃)	kΩ	10
	Remote controller model		KM04B

NOTE: Test conditions are based on ISO 5151.

Cooling : Indoor Dry-bulb temperature 27°C Wet-bulb temperature 19°C Outdoor Dry-bulb temperature 35°C Wet-bulb temperature (24°C) Indoor-Outdoor piping length : 5m

3

NOISE CRITERIA CURVES

MS-GA50VB





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MS-GA80VB

Test conditions,



Cooling : Dry-bulb temperature 27°C Wet-bulb temperature 19°C 90 OCTAVE BAND SOUND PRESSURE LEVEL, dB re 0.0002 MICRO BAR 80 70 NC-70 60 NC-60 50 NC-50 40 NC-40 30 NC-30 APPROXIMATE 20 THRESHOLD OF HEARING FOR NC-20 CONTINUOUS 10 63 125 250 500 1000 2000 4000 8000 BAND CENTER FREQUENCIES, Hz

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MS-GA60VB





MS-GA50VB MS-GA60VB MS-GA80VB

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Wireless remote controller

Unit: mm

MS-GA50VB MS-GA60VB

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C11	INDOOR FAN CAPACITOR	MV1	VANE MOTOR (HORIZONTAL)	RT12	INDOOR COIL THERMISTOR
F11	FUSE (3.15A)	MV2	VANE MOTOR (VERTICAL)	SR141	SOLID STATE RELAY
HIC1	DC/DC CONVERTER	NR11	VARISTOR	ТВ	TERMINAL BLOCK
MF	INDOOR FAN MOTOR (INNER FUSE)	RT11	ROOM TEMPERATURE THERMISTOR		

NOTES: 1.About the outdoor side electric wiring refer to the outdoor unit electric wiring diagram for servicing.

2.Use copper conductors only. (For field wiring) 3.Symbols below indicate.

MS-GA80VB



SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
C11	INDOOR FAN CAPACITOR	MV2	VANE MOTOR(VERTICAL)	SR141	SOLID STATE RELAY
F11	FUSE(3.15A)	NR11	VARISTOR	TB	TERMINAL BLOCK
HIC1	DC/DC CONVERTER	RT11	ROOM TEMPERATURE THERMISTOR		
MF	INDOOR FAN MOTOR(INNER PROTECTOR)	RT12	INDOOR COIL THERMISTOR (MAIN)		
MV1	VANE MOTOR(HORIZONTAL)	RT13	INDOOR COIL THERMISTOR (SUB)		

NOTES: 1.About the outdoor side electric wiring refer to the outdoor unit electric wiring diagram for servicing. 2.Use copper conductors only. (For field wiring)

3.Symbols below indicate.

O : Terminal block □□□ : Connector



REFRIGERANT SYSTEM DIAGRAM

MS-GA50VB Unit:mm MS-GA60VB Refrigerant pipe ϕ 15.88 Refrigerant pipe ϕ 12.7 (with heat insulator) (with heat insulator) Indoor coil Indoor coil Indoor thermistor Indoor thermistor RT12 heat **RT12** heat exchanger exchanger Distributor Distributor Flared connection Flared connection 11 Room temperature Room temperature thermistor thermistor **RT11 RT11** II Flared connection П Flared connection Refrigerant pipe ϕ 6.35 Refrigerant pipe ϕ 6.35 (with heat insulator) (with heat insulator)

MS-GA80VB



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MS-GA50VB MS-GA60VB MS-GA80VB

8

8-1. TIMER SHORT MODE

For service, set time can be shortened by short circuit of JPG and JPS on the electronic control P.C. board. The time will be shortened as follows. (Refer to 9-6.) Set time : 1 minute → 1-second

Set time : 3 minute → 3-second (It takes 3 minutes for the compressor to start operation. However, the starting time is shortened by short circuit of JPG and JPS.)

8-2. P.C. BOARD MODIFICATION FOR INDIVIDUAL OPERATION

A maximum of 4 indoor units with wireless remote controllers can be used in a room.

In this case, to operate each indoor unit individually by each remote controller, P.C. boards of remote controller must be modified according to the number of the indoor unit.

How to modify the remote controller P.C. board

Remove batteries before modification.

The board has a print as shown below :



NOTE : For modification, take out the batteries and press the OPERATE/ STOP (ON/ OFF) button 2 or 3 times at first. After modification, put back the batteries then press the RESET button.

The P.C. board has the print "J1" and "J2". Solder "J1" and "J2" according to the number of indoor unit as shown in Table 1. After modification, press the RESET button.

Table 1

	1 unit operation	2 units operation	3 units operation	4 units operation
No. 1 unit	No modification	Same as at left	Same as at left	Same as at left
No. 2 unit	_	Solder J1	Same as at left	Same as at left
No. 3 unit	_	-	Solder J2	Same as at left
No. 4 unit	_	_	_	Solder both J1 and J2

How to set the remote controller exclusively for particular indoor unit

After you turn the breaker ON, the first remote controller that sends the signal to the indoor unit will be regarded as the remote controller for the indoor unit.

The indoor unit will only accept the signal from the remote controller that has been assigned to the indoor unit once they are set. The setting will be cancelled if the breaker has turned OFF, or the power supply has shut down.

Please conduct the above setting once again after the power has restored.

8-3. AUTO RESTART FUNCTION

When the indoor unit is controlled with the remote controller, the operation mode, set temperature, and the fan speed are memorized by the indoor electronic control P.C. board. The "AUTO RESTART FUNCTION" sets to work the moment power has restored after power failure. Then, the unit will restart automatically. However if the unit is operated in "I FEEL CON-TROL" mode before power failure, the operation is not memorized. In "I FEEL CONTROL" mode, the operation is decided by the initial room temperature.

How to disable "AUTO RESTART FUNCTION"

①Turn OFF the main power for the unit.

- ②Pull out the electronic control P.C. board, the receiver P.C. board and the display P.C. board. (Refer to 10-1.2.)
- ③Solder jumper wire to JR07 on the indoor electronic control P.C. board. (Refer to 9-6.)



Operation

①If the main power has been cut, the operation settings remain.

②After the power is restored, the unit restarts automatically according to the memory.(However, it takes at least 3 minutes for the compressor to start running.)

NOTE

- •The operation settings are memorized when 10 seconds have passed after the remote controller was operated with the remote controller.
- •If main power is turned OFF or a power failure occurs while AUTO START/ STOP timer is active, the timer setting is cancelled.
- •If the unit has been OFF with the remote controller before power failure, the auto restart function does not work as the power button of the remote controller is OFF.
- •To prevent breaker OFF due to the rush of starting current, systematize other home appliances not to turn ON at the same time.
- •When some air conditioners are connected to the same supply system, if they are operated before power failure, the starting current of all the compressors may flow simultaneously at restart.

Therefore, the special counter-measures are required to prevent the main voltage-drop or the rush of the starting current by adding to the system that allows the units to start one by one.



MS-GA50VB MS-GA60VB MS-GA80VB

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9-1. Cautions on troubleshooting

1. Before troubleshooting, check the following:

- (1) Check the power supply voltage.
- (2) Check the indoor/outdoor connecting wire for mis-wiring.
- 2. Take care the following during servicing.
- (1) Before servicing the air conditioner, be sure to turn OFF the main unit first with the remote controller, and then after confirming the horizontal vane is closed, turn OFF the breaker and / or disconnect the power plug.
- (2) Be sure to turn OFF the power supply before removing the front panel, the cabinet, the top panel, and the electronic control P.C. board.
- (3) When removing the electronic control P.C. board, hold the edge of the board with care NOT to apply stress on the components.
- (4) When connecting or disconnecting the connectors, hold the housing of the connector. DO NOT pull the lead wires.



3. Troubleshooting procedure

- (1) Check if the OPERATION INDICATOR lamp on the indoor unit is flashing ON and OFF to indicate an abnormality. To make sure, check how many times the OPERATION INDICATOR lamp is flashing ON and OFF before starting service work.
- (2) Before servicing check that the connector and terminal are connected properly.
- (3) If the electronic control P.C. board is supposed to be defective, check the copper foil pattern for disconnection and the components for bursting and discolouration.
- (4) When troubleshooting, refer to 9-2. and 9-3.

4. How to replace batteries

Weak batteries may cause the remote controller malfunction.

- In this case, replace the batteries to operate the remote controller normally.
- ① Remove the front lid and insert batteries.
 - Then reattach the front lid.



2 Press the RESET button with a thin instrument, and





NOTE : 1. If the RESET button is not pressed, the remote controller may not operate correctly. 2. Do not use the leaking batteries.

9-2. Instruction of troubleshooting



Refer to outdoor unit service manual.

*"Test Run operation" means the operation within 30 minutes after EMERGENCY OPERATION switch is pressed.

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9-3. Troubleshooting check table

• The following indication applies regardless of shape of the indicator.

	-11-	Liahted
` ` ≝′ □	-/╄/、	
		Not ligh

Not lighted

· Flashing of the OPERATION INDICATOR lamp (on the left-hand side) indicates possible abnormalities.

• The OPERATION INDICATOR lamp (on the left-hand side) is lighted during normal operation.

Before taking measures, make sure that the symptom reappears, for accurate troubleshooting. Self check table

No.	Abnormal point	Operation indicator lamp	Symptom	Condition	Remedy
1	MS-GA80VB Mis-Wiring	0.5-second ON ★○★○★○★○ 0.5-second OFF	Outdoor unit does not operate.	3 minutes after power supply turns ON, when serial signal is not received.	Refer to 9-5. "How to check mis-wiring ".
2	Indoor coil thermistor Room temperature	2-time flash ★ ○ ★ ○ ○ ○ ○ ○ ★ ○ ★ ○ ○ 2.5-second OFF	Outdoor unit does not operate.	Detect Indoor coil/room temperature thermistor short or open circuit every 8 seconds during operation.	• Refer to the characteristics of indoor coil thermistor, and room temperature thermistor (9-6.).
3	Indoor fan motor	3-time flash ★○★○★○○○○○★○★○★○★○○○ 2.5-second OFF	Indoor fan repeats 12 seconds ON and 3minutes OFF. When the indoor fan breaks, the fan keeps stopping.	Rotational frequency feedback signal is not emitted for 12-second after indoor fan motor is operated.	• Refer to 9-5. (a) "Check of indoor fan motor".
4	Indoor control system	4-time flash ★ ○ ★ ○ ★ ○ ★ ○ ★ ○ ★ ○ ★ ○ ★ ○ ★ ○ ★ ○	Outdoor unit does not operate.	It cannot properly read data in the nonvolatile memory of the indoor electronic control P.C. board.	Check the indoor electronic control P.C. board.
5	MU-GA80VB Outdoor thermistor	6-time flash ★○★○★○★○★○★○○○○○★○ 2.5-second OFF	Outdoor unit does not operate.	<thermistor short=""> Thermistors are abnormal when they short after compressor start-up. <thermistor open=""> Thermistors are abnormal when they open after compressor start-up. However, discharge temperature thermistor is abnormal when open circuit is detected more than 10 minutes after compressor start-up.</thermistor></thermistor>	 Check the deicer P.C. board. Reconnect the connector. Refer to "Check of outdoor thermistor". Refer to outdoor service manual.
6	MU-GA80VB Outdoor control system	7-time flash ≹ ୦ ≹ ୦ ≹ ୦ ≹ ୦ ≹ ୦ ≷ ୦ ୦ ୦ ୦ ↓ 2.5-second OFF	Outdoor unit does not operate.	It cannot properly read data in the nonvolatile memory of the deicer P.C. board.	Check the deicer P.C. board. Refer to outdoor service manual.
7	MU-GA80VB Low discharge tempera- ture protection	10-time flash ★ ○ ★ ○ ★ ○ ★ ○ ★ ○ ★ ○ ★ ○ ★ ○ ★ ○ └ ○ ★ ○ ★ ○ ○ ○ ○ 2.5-second OFF	Outdoor unit does not operate.	Discharge temperature has been 50°C or less on cool operation.	 Refer to "Check of LEV". Check refrigerant circuit and refrigerant amount. Refer to outdoor service manual.

NOTE : When the indoor unit has started operation and the above detection method has detected an abnormality (the first detection after the power ON), the indoor electronic control P.C. board turns OFF the indoor fan motor with the **OPERATION INDICATOR lamp flashing.**

9-4. Trouble criterion of main parts MS-GA50VB MS-GA60VB MS-GA80VB

Part name				Figure		
Room temperature thermistor(RT11)	1	easure the resistance art temperature 10°C				
Indoor coil thermistor (RT12(main), RT13(sub))	Re "In	efer to 9-6."Test point	t diagram and voltag rol P.C. board", for th	je", ne chart of thermis	stor.	
	t	Measure the resist (Part temperature	ance between the te 10°C ~ 30°C)	erminals with a tes	ster.	MS-GA50/GA60VB
Indoor fan motor(MF)	part	Color of	Nori	mal]	
	or	lead wire	MS-GA50/GA60VB	MS-GA80VB		
	Motor	WHT – BLK	282 Ω ~ 305 Ω	133 Ω ~ 144 Ω		
MS-GA50/GA60VB	2	BLK – RED	141 Ω ~ 152 Ω	152 Ω ~ 165 Ω		WHT WHT
145°C CUT OFF						@@≻@& ≥
						MS-GA80VB
MS-GA80VB		Measure the voltage	ge power ON.			MAIN
INNER PROTECTOR	part	Color of lead wire	Norma	al		
135± 5°C OPEN	o_	BRN – YLW	4.5 ~ 5.	-		
100- 00 OF EN	Sensor	YLW – GRY	(When fan revolve 0V→5V→ (Approx	•0V		CTURED CT
						出版 大 ら 記 文
Horizontal vane motor(MV1)	1	easure the resistance Part temperature 10°		inal with a tester.		RED
Vertical vane Normal						
motor(MV2)	L	282 Ω ~ 306 Ω				
						ORN GRN

D:INNER PROTECTOR

9-5. Troubleshooting flow



When OPERATION INDICATOR lamp flashes 3-time.

Indoor unit operates by pressing the EMERGENCY OPERATION switch, but does not operate with the remote controller.

B)Check of remote controller and receiver P.C. board

Check if the remote controller is exclusive for this air conditioner.



The unit does not operate with the remote controller. Also, the OPERATION INDICATOR lamp does not light up by pressing the EMERGENCY OPERATION switch.

C Check of indoor electronic control P.C. board



When OPERATION INDICATOR lamp flashes ON and OFF in every 0.5-second. Outdoor unit does not operate.



Refer to outdoor unit service manual.

9-6. Test point diagram and voltage * There are 2 types of electronic control P.C. boards MS-GA50VB MS-GA60VB MS-GA80VB (TYPE1/TYPE2). Indoor electronic control P.C. board They are both compatible with MS-GA50/60/80VB. TYPE 1 2 CNINI (1 O 0 Fan motor power supply C (CN211) Power supply input 230 VAC 5 VDC Ċ Room temperature 0 Fuse (F11) E C 0 thermistor (RT11) High voltage T3.15AL250V J403 Indoor coil thermistor (RT12 (main) R132 MS-GA80VB Indoor coil thermistor (RT13 (sub)) DE00N243B CN121 SE76A794G Vane motor power supply (CN151) . Emergency operation JSW27 switch Timer short mode point ULN2004 AN (JPS, JPG) 0 (Refer to 8-1.) Shortening time Ŧ **Receiver P.C. board** 12 VDC 0 : [] ð Indoor coil thermistor (RT12 (main), RT13 (sub)) IDE Room temperature thermistor (RT11) 40 CN301 To disable "Auto restart function", solder the jumper wire to JR07. 30 Resistance (kΩ) (Refer to 8-3.) 20 10 0 0 10 20 30 40 5 Temperature (°C) 50 60

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MS-GA50VB MS-GA60VB MS-GA80VB Indoor electronic control P.C. board

10 DISASSEMBLY INSTRUCTIONS

<"Terminal with locking mechanism" Detaching points>

The terminal which has the locking mechanism can be detached as shown below. There are two types (Refer to (1) and (2)) of the terminal with locking mechanism. The terminal without locking mechanism can be detached by pulling it out. Check the shape of the terminal before detaching.

(1) Slide the sleeve and check if there is a locking lever or not.

(2) The terminal with this connector has the locking mechanism.



①Hold the sleeve, and pull out the terminal slowly. Connector

10-1. MS-GA50VB MS-GA60VB MS-GA80VB

NOTE:	Turn	OFF	power	supply	before	disassembly	

OPERATING PROCEDURE	PHOTOS
 Removing the front panel Remove the screw caps of the front panel. Remove the screws. Pull the panel down to your side slightly and unhook the catches at the top. 	Photo 1 Front panel
 Removing the electronic control P.C. board, the receiver P.C. board and the display P.C. board Remove the front panel. (Refer to 1.) Remove the screw of the electrical cover. Remove the electrical cover. Remove the screws of the V.A. clamp. Remove the V.A. clamp. Remove the screw of the terminal block. Remove the screws of the earth wire. Disconnect all the connectors and all the lead wires on the electronic control P.C. board. Remove the R.L holder. Remove the R.L holder. Remove the R.L holder, remove the receiver P.C. board and the display P.C. board. 	Photo 2 Screws of the earth wire Fan motor connectors Vane motor connector Ndoor electronic control P.C. board Screw of the electri- cal cover



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11 PARTS LIST (non-RoHS compliant)

MS-GA50VB MS-GA60VB MS-GA80VB 11-1. INDOOR UNIT STRUCTURAL PARTS

11-2. INDOOR UNIT HEAT EXCHANGER





11-1. INDOOR UNIT STRUCTURAL PARTS

Part number that is circled is not shown in the illustration.

No.	Part No.	Part Name	in Wiring Diagram	MS-GA50 VB - E1	MS-GA60 VB - E1	MS-GA80 VB - E1	Remarks
1	E02 527 970	INSTALLATION PLATE		1	1	1	
2	E02 685 234	BOX		1	1	1	
3	E02 888 000	FRONT PANEL ASSEMBLY		1	1	1	Including No.4,5,6
4	E02 408 142	CATCH		4	4	4	4PCS/ SET
5	E02 685 067	SCREW CAP		3	3	3	3PCS/ SET
6	E02 888 010	GRILLE		1	1	1	
7	E02 534 100	CATECHIN AIR FILTER		2	2	2	1PCE/ SET
8	E02 685 975	CORNER BOX RIGHT		1	1	1	
9	E02 891 007	LAMP PANEL		1	1	1	

11-2. INDOOR UNIT HEAT EXCHANGER

10	E02 891 (620	INDOOR HEAT EXCHANGER	1	1		
10	E02 896 0	620	INDOOR HEAT EXCHANGER			1	
44	E02 179 (667	UNION (GAS)	1			∮12.7
	E02 138 (666	UNION (GAS)		1	1	¢15.88
40	E02 151 (667	UNION (LIQUID)	1	1		φ 6.35
12	E02 527 (667	UNION (LIQUID)			1	ø9.52

PARTS LIST (non-RoHS compliant)

MS-GA50VB MS-GA60VB MS-GA80VB 11-3. INDOOR UNIT FUNCTIONAL PARTS AND ELECTRICAL PARTS

11-4. ACCESSORY AND REMOTE CONTROLLER



11-3. INDOOR UNIT FUNCTIONAL PARTS AND ELECTRICAL PARTS

Part numbers that are circled are not shown in the illustration.

			Symbol				
No.	Part No.	Part Name	in Wiring Diagram	MS-GA50 VB - E1	MS-GA60 VB - E1	MS-GA80 VB - E1	Remarks
1	E02 527 302	LINE FLOW FAN		1	1	1	
2	E02 408 509	BEARING MOUNT		1	1	1	
3	E02 001 504	SLEEVE BEARING		1	1	1	
4	E02 408 702	DRAIN HOSE		1	1	1	
5	E02 996 235	NOZZLE ASSENBLY		1	1	1	
6	E02 685 040	VANE UPPER		1	1	1	
7	E02 685 041	VANE LOWER		1	1	1	
8	E02 127 382	FUSE	F11	1	1	1	T3.15AL250V
9	E02 817 385	VARISTOR	NR11	1	1	1	
10	E02 527 034	VANE CRANK SET		1	1	1	
11	E02 527 300	INDOOR FAN MOTOR ASSEMBLY	MF			1	RC4V40 -
12	E12 F57 300	INDOOR FAN MOTOR ASSEMBLY	MF	1	1		RC4V40 -
13	E02 448 303	VANE MOTOR (VERTICAL)	MV2	2	2	2	RIGHT & LEFT
14	E02 408 303	VANE MOTOR (HORIZONTAL)	MV1	1	1	1	UP & DOWN
15	E12 F57 333	MOTOR BAND SET		1	1		Including two kinds of motor bands
15	E02 527 333	MOTOR BAND				1	
16	E02 528 329	DISPLAY P.C. BOARD		1	1	1	
17	E02 527 468	RECEIVER P.C. BOARD		1	1	1	
	E02 894 452	ELECTRONIC CONTROL P.C. BOARD *1		1			AUTO RESTART Including No.16
18	E02 895 452	ELECTRONIC CONTROL P.C. BOARD *1			1		AUTO RESTART Including No.16
	E02 896 452	ELECTRONIC CONTROL P.C. BOARD *1				1	AUTO RESTART Including No.16
19	E02 527 308	ROOM TEMPERATURE THERMISTOR	RT11	1	1	1	
~	E02 817 375	TERMINAL BLOCK	TB	1	1		
20	E02 819 375	TERMINAL BLOCK	ТВ			1	
	E02 408 307	INDOOR COIL THERMISTOR	RT12	1	1		
21	E02 527 307	INDOOR COIL THERMISTOR	RT12, RT13			1	
22		VANE MOTOR SUPPORT SET (RIGHT)	,	1	1	1	
23	E02 529 034	VANE MOTOR SUPPORT SET (LEFT)		1	1	1	
\smile	Refer to 9-6.		1	-	•	•	1

*1 Refer to 9-6.

11-4. ACCESSORY AND REMOTE CONTROLLER

24 E02 527 426 REMOTE CONTROLLER	1	1	1	KM04B
25 E02 527 083 REMOTE CONTROLLER HOLDER	1	1	1	

12 RoHS PARTS LIST (RoHS compliant)

MS-GA50VB MS-GA60VB MS-GA80VB 12-1. INDOOR UNIT STRUCTURAL PARTS

12-2. INDOOR UNIT HEAT EXCHANGER



12-1. INDOOR UNIT STRUCTURAL PARTS

Part number that is circled is not shown in the illustration.

	S			Symbol				
No.	RoHS	Part No.	Part Name	in Wiring Diagram	MS-GA50 VB - E1	MS-GA60 VB - E1	MS-GA80 VB - E1	Remarks
1	G	E12 527 970	INSTALLATION PLATE		1	1	1	
2	G	E12 685 234	BOX		1	1	1	
3	G	E12 888 000	FRONT PANEL ASSEMBLY		1	1	1	Including No.4,5,6
4	G	E12 408 142	CATCH		4	4	4	4PCS/ SET
5	G	E12 685 067	SCREW CAP		3	3	3	3PCS/ SET
6	G	E12 888 010	GRILLE		1	1	1	
7	G	E12 534 100	CATECHIN AIR FILTER		2	2	2	1PCE/ SET
8	G	E12 685 975	CORNER BOX RIGHT		1	1	1	
9	G	E12 891 007	LAMP PANEL		1	1	1	

12-2. INDOOR UNIT HEAT EXCHANGER

10	G	E12 891 62	INDOOR HEAT EXCHANGER	1	1		
10	G	E12 896 62	INDOOR HEAT EXCHANGER			1	
44	G	E12 179 66	UNION (GAS)	1			φ 12.7
111	G	E12 138 66	UNION (GAS)		1	1	φ 15.88
	G	E12 151 66	V UNION (LIQUID)	1	1		φ 6.35
12	G	E12 527 66	VINION (LIQUID)			1	φ 9.52

RoHS PARTS LIST (RoHS compliant)

MS-GA50VB MS-GA60VB MS-GA80VB 12-3. INDOOR UNIT FUNCTIONAL PARTS AND ELECTRICAL PARTS 20 1 21 2 3 4 11 19 5 6 14 K O 7 8 9 18 16 17

12-4. ACCESSORY AND REMOTE CONTROLLER

25



12-3. INDOOR UNIT FUNCTIONAL PARTS AND ELECTRICAL PARTS

Part numbers that are circled are not shown in the illustration.

	S			Symbol	Q'ty/unit			
No.	RoHS	Part No.		in Wiring Diagram	MS-GA50 VB - E1	MS-GA60 VB - E1	MS-GA80 VB - [E1]	Remarks
	~	E40 E07 000		Diagram				
1	G	E12 527 302			1	1	1	
2	G	E12 408 509	BEARING MOUNT		1	1	1	
3	G	E12 001 504	SLEEVE BEARING		1	1	1	
4	G	E12 408 702	DRAIN HOSE		1	1	1	
5	G	E12 996 235	NOZZLE ASSEMBLY		1	1	1	
6	G	E12 685 040	VANE UPPER		1	1	1	
7	G	E12 685 041	VANE LOWER		1	1	1	
8	G	E12 A49 382	FUSE	F11	1	1	1	T3.15AL250V
9	G	E12 817 385	VARISTOR	NR11	1	1	1	
10	G	E12 527 034	VANE CRANK SET		1	1	1	
11	G	E12 527 300	INDOOR FAN MOTOR ASSEMBLY	MF			1	RC4V40 -
12	G	E12 F57 300	INDOOR FAN MOTOR ASSEMBLY	MF	1	1		RC4V40 - Including RUBBER MOUNT, MOTOR BAND and MOTOR BED
13	G	E12 448 303	VANE MOTOR (VERTICAL)	MV2	2	2	2	RIGHT & LEFT
14	G	E12 408 303	VANE MOTOR (HORIZONTAL)	MV1	1	1	1	UP & DOWN
15	G	E12 F57 333	MOTOR BAND SET		1	1		Including two kinds of motor bands
13	G	E12 527 333	MOTOR BAND				1	
16	G	E12 528 329	DISPLAY P.C. BOARD		1	1	1	
17	G	E12 527 468	RECEIVER P.C. BOARD		1	1	1	
	G	E12 894 452	ELECTRONIC CONTROL P.C. BOARD *1		1			AUTO RESTART
18	G	E12 895 452	ELECTRONIC CONTROL P.C. BOARD *1			1		Including No.16 AUTO RESTART Including No.16
	G	E12 896 452	ELECTRONIC CONTROL P.C. BOARD *1				1	AUTO RESTART Including No.16
19	G	E12 527 308	ROOM TEMPERATURE THERMISTOR	RT11	1	1	1	including for to
	G	E12 817 375	TERMINAL BLOCK	TB	1	1		
20	G	E12 819 375	TERMINAL BLOCK	ТВ			1	
	G	E12 408 307	INDOOR COIL THERMISTOR	RT12	1	1		
21	G	E12 527 307	INDOOR COIL THERMISTOR	RT12, RT13	-		1	
22	G	E12 528 034	VANE MOTOR SUPPORT SET (RIGHT)	,	1	1	1	
23	G	E12 529 034	VANE MOTOR SUPPORT SET (LEFT)		1	1	1	
	-	er to 9-6.			•	•		1

12-4. ACCESSORY AND REMOTE CONTROLLER

24 G E12 527 426	REMOTE CONTROLLER	1	1	1	KM04B
25 G E12 527 083	REMOTE CONTROLLER HOLDER	1	1	1	

AIR CLEANING FILTER

- Normal life of AIR CLEANING FILTER is 4 months. However, when it becomes dirty, replace it as soon as possible.
- Clogged AIR CLEANING FILTER may reduce the air conditioner capacity or cause frost on the air outlet.
- DO NOT reuse AIR CLEANING FILTER even if it is washed.
- DO NOT remove or attach AIR CLEANING FILTER during unit operation.

Model	Part No.
MS-GA50VB MS-GA60VB MS-GA80VB	MAC-1700FT



Air cleaning filter (White bellows type)

MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE: TOKYO BLDG., 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN

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