

Revision:C

• PARTS LIST and RoHS PARTS LIST have been changed.

Please void OB388 REVISED EDITION-B

# INDOOR UNIT SERVICE MANUAL

No. OB388 REVISED EDITION-C

Wireless type Models

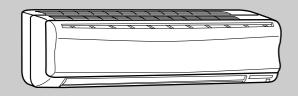
MSZ-GA50VA	■ E1
MSZ-GA60VA	■ E1
MSZ-GA71VA	■ E1

Outdoor unit service manual MUZ-GA•VA Series (OB389) MXZ-A•VA Series (OB377)

CE

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**NOTE:** RoHS compliant products have <G> mark on the spec name plate. For servicing of RoHS compliant products, refer to the RoHS Parts List.

#### **Revision:A**

Part number of INDOOR HEAT EXCHANGER has been corrected..

Model	Revise point	Part Name	Part	No.
			Incorrect	Correct
MSZ-GA60VA -E1	11-2.No.10	INDOOR HEAT EXCHANGER	E02 819 620	E02 851 620

#### **Revision:B**

• RoHS PARTS LIST has been added.

• 9-2. Failure mode recall function has been

changed.

## **Revision:C**

1

• PARTS LIST and RoHS PARTS LIST have been changed.

## **TECHNICAL CHANGES**

 MSZ-A18YV -EI
 → MSZ-GA50VA -EI

 MSZ-A24YV -EI
 → MSZ-GA60VA -EI

 MSZ-A26YV -EI
 → MSZ-GA71VA -EI

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

2. Power supply cord has been removed.

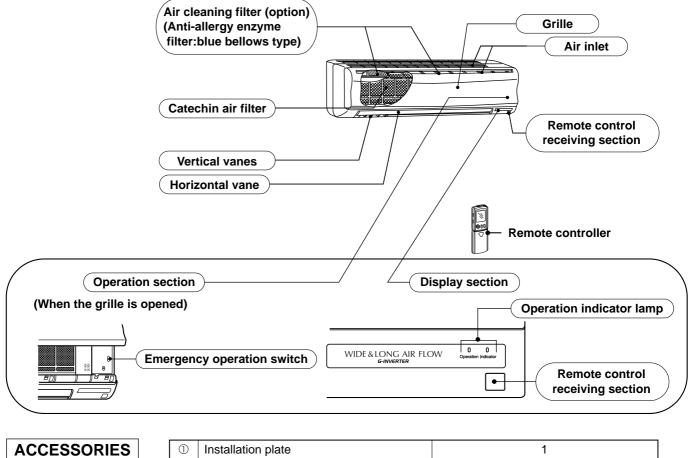
3. Indoor electronic control P.C. board has been changed.

4. Indoor fan motor has been changed. ( AC  $\rightarrow$  DC)

5. Shape of motor band and motor bed have been changed.

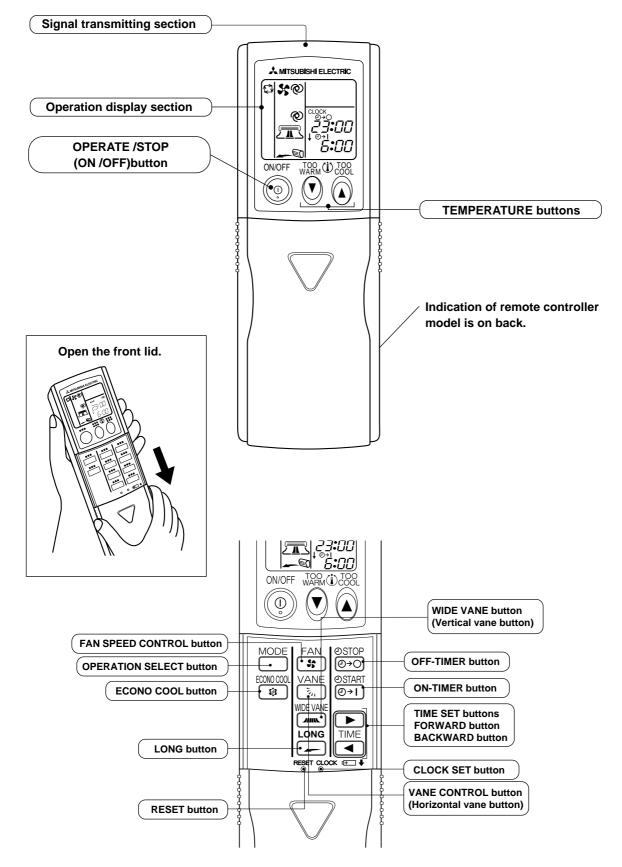
6. Symbol on terminal block has been changed (to S1/S2/S3).

2



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

## REMOTE CONTROLLER MSZ-GA50VA MSZ-GA60VA MSZ-GA71VA



## **SPECIFICATION**

Indoor model Function			MSZ-G	A50VA	MSZ-G	A60VA		
			Cooling	Cooling Heating		Heating		
	Power supply		Single phase 230V, 50Hz		5	Single phase 230V, 50Hz		
Capacity	Air flow(High/Med./Low)	m³ /h	852/69	90/498	1,032/768/522	1,032/786/522		
-	Power outlet	А	2	0	2	0		
Electrical data	Running current *1	А	0.4	45	0.	60		
Elect data	Power input *1	W	5	50		0		
цщ ев	Power factor *1	%	48		43			
	Fan motor current *1	А	0.45		0.60			
Fan moto	Model		RC0J56-AA		RC0J56-AA			
	Dimensions W×H×D	mm	1,100×3	1,100×325×258		325×258		
	Weight	kg	1	16		16 16		6
_ v	Air direction		5		5			
ark	Sound level(High/Med./Low)	dB	48/3	8/31	54/4	0/32		
Special remarks	Fan speed(High/Med./Low)	rpm	1,120/9	40/720	1,310/1030/750	1,310/1050/750		
0.5	Fan speed regulator		3			3		
	Remote controller model		KM	05C	KM05C			

Indoor model Function			MSZ-GA	A71VA	
			Cooling Heating		
	Power supply		Single phase 230V, 50Hz		
Capacity	Air flow(High/Med./Low)	m³ /h	1,032/798/564	1,032/816/564	
F	Power outlet	А	20	)	
Electrical data	Running current *1	А	0.6	0	
Elect data	Power input *1	W	60		
бш	Power factor *1	%	43		
	Fan motor current *1	А	0.60		
Fan motor	Model		RC0J56-AA		
	Dimensions W×H×D	mm	1,100×325×258		
	Weight	kg	16	6	
6	Air direction		5		
cial ark:	Sound level(High/Med./Low)	dB	54/40	)/33	
Special remarks	Fan speed(High/Med./Low)	rpm	1,310/1,060/800	1,310/1,080/800	
0,2	Fan speed regulator		3		
	Remote controller model		KM0	5C	

NOTE: Test conditions are based on ISO 5151. Cooling : Indoor Dry-bulb temperature 27°C Outdoor Dry-bulb temperature 35°C Heating : Indoor Dry-bulb temperature 20°C Outdoor Dry-bulb temperature 7°C Indoor-Outdoor piping length 5m \*1 Measured under rated operating frequency.

Wet-bulb temperature 19°C Wet-bulb temperature(24°C) Wet-bulb temperature 15.5°C Wet-bulb temperature 6°C

3

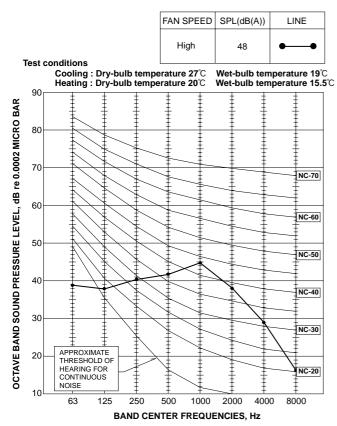
#### Specifications and rating conditions of main electric parts

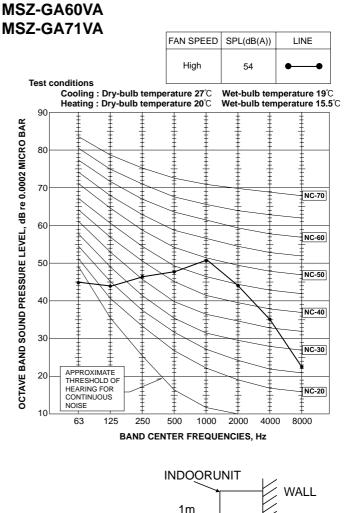
Fuse	(F11)	T3.15AL 250V
Vane motor	(MV1/ MV2)	MP20/MP20
Varistor	(NR11)	ERZV14D471
Terminal block	(TB)	4P

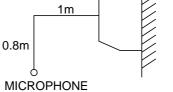
## NOISE CRITERIA CURVES

## MSZ-GA50VA

4

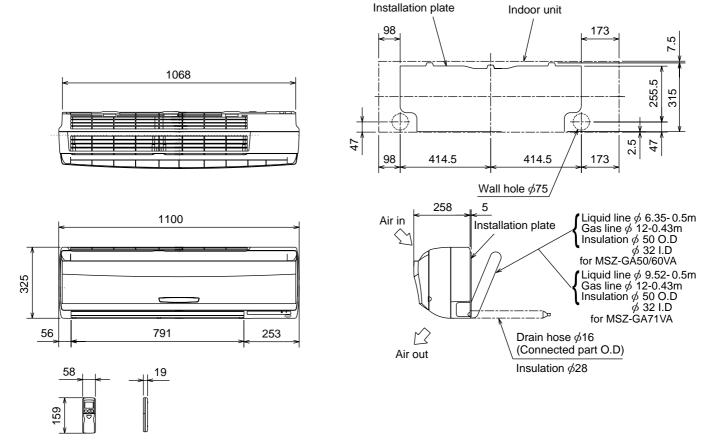




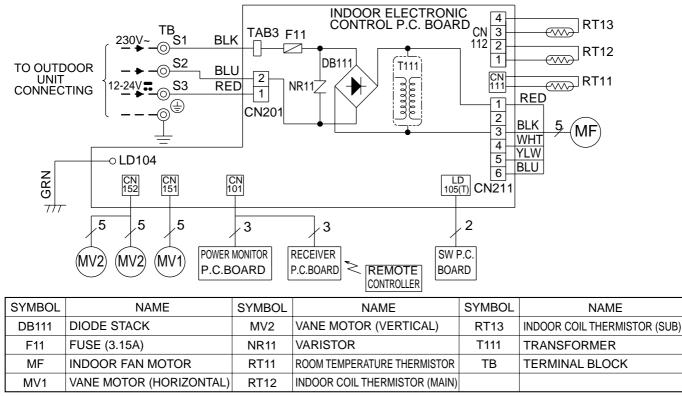


5

Unit: mm



Wireless remote controller



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.

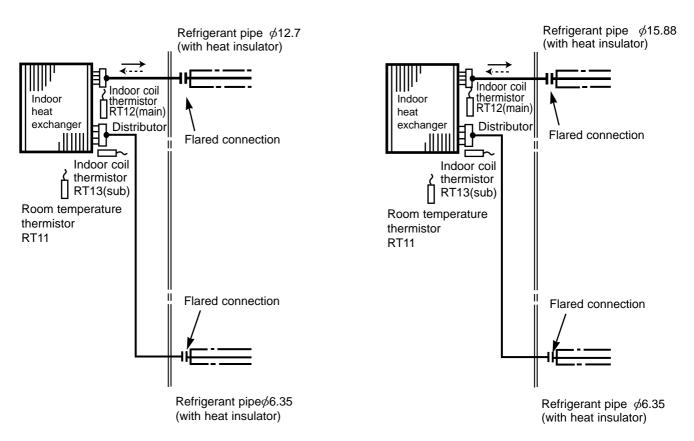
O : Terminal block

: Connector

7

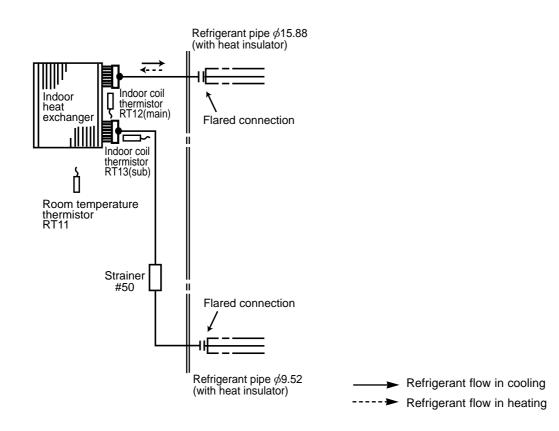
## **REFRIGERANT SYSTEM DIAGRAM**

### MSZ-GA50VA



MSZ-GA60VA

#### **MSZ-GA71VA**



Unit:mm

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.

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

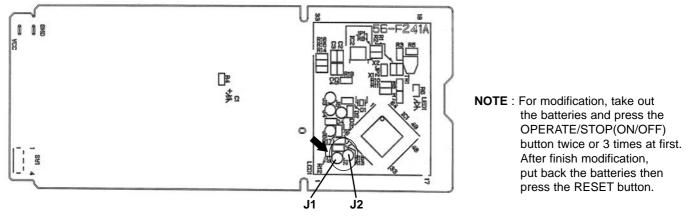
A maximum of 4 indoor units with wireless remote controllers can be used in a room.

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 :



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 accepts 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.

#### Operation

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

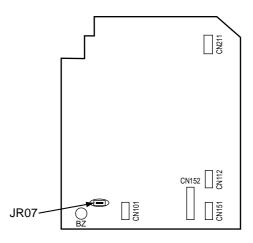
②After the power is restored, the unit restarts automatically according to the memory.(However, it takes at least 3 minutes for the compressor to start running.)

#### How to release "AUTO RESTART FUNCTION"

①Turn OFF the main power for the unit.

<sup>(2)</sup>Pull out the electronic control P.C. board, the receiver P.C.

- board and the display P.C.board. (Refer to 10.2.)
- 3 Solder jumper wire to JR07 on the indoor
- electronic control P.C. board. (Refer to 9-7.)



#### NOTE

•The operation settings are memorized when 10 seconds have passed after the indoor unit 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.

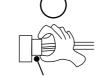
Therefore, the special counter-measures are required to prevent the main voltage-drop or the rush of the starting current by adding to the system that allows the units to start one by one.

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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 of 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.





## Lead wiring

Housing point

#### 3. Troubleshooting procedure

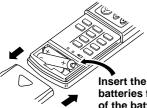
- (1) First, check if OPERATION INDICATOR lamp on the indoor unit is flashing on and off to indicate an abnormality. To make sure, check how many times the abnormality indication is flashing on and off before starting service work.
- (2) Before servicing, check that the connector and terminal are connected 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., 9-3. and 9-4.

#### 4. How to replace batteries

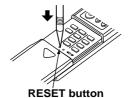
Weak batteries may cause the remote controller malfunction.

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 tip end of ball point pen or the like, and then use the remote controller.



Insert the negative pole of the batteries first. Check if the polarity of the batteries is correct.



NOTE : If the RESET button is not pressed, the remote controller may not operate correctly.

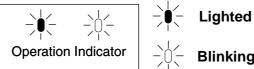
#### INFORMATION FOR MULTI SYSTEM AIR CONDITIONER

#### **OUTDOOR UNIT : MXZ series**

Multi system air conditioner can connect two or more indoor units with one outdoor unit.

•Unit won't operate in case the total capacity of indoor units exceeds the capacity of outdoor units. Do not connect indoor units beyond the outdoor unit capacity.

•When you try to operate two or more indoor units with one outdoor unit simultaneously, one for the cooling and the other for heating, the operation mode of the indoor unit that operates earlier is selected. The other indoor units cannot operate, indicating as shown in the figure below. In this case, please set all the indoor units to the same operation mode.



- •When indoor units starts the operation while the defrosting of outdoor unit is being done, it takes a few minutes (max. 10 minutes) to blow out the warm air.
- •In the heating operation, though indoor unit that does not operate may get warm or the sound of refrigerant flowing may be heard, they are not malfunction. The reason is that the refrigerant continuously flows into it.

#### 9-2. Failure mode recall function

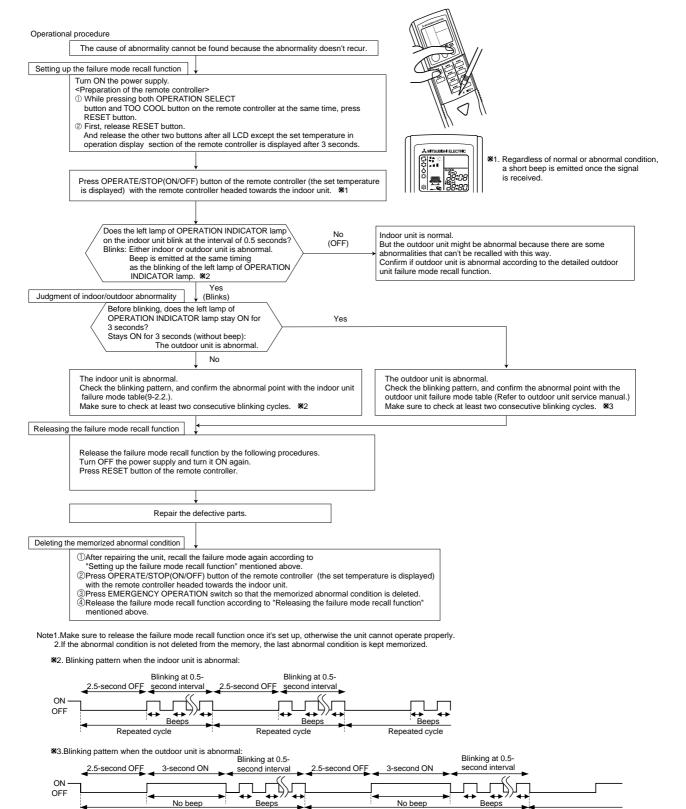
Outline of the function

This air conditioner can memorize the abnormal condition which has occurred once.

Even though LED indication listed on the troubleshooting check table (9-4.) disappears, the memorized failure details can be recalled.

This mode is very useful when the unit needs to be repaired for the abnormality which doesn't recur.

#### 1. Flow chart of failure mode recall function for the indoor/outdoor unit



Repeated cycle

Repeated cycle

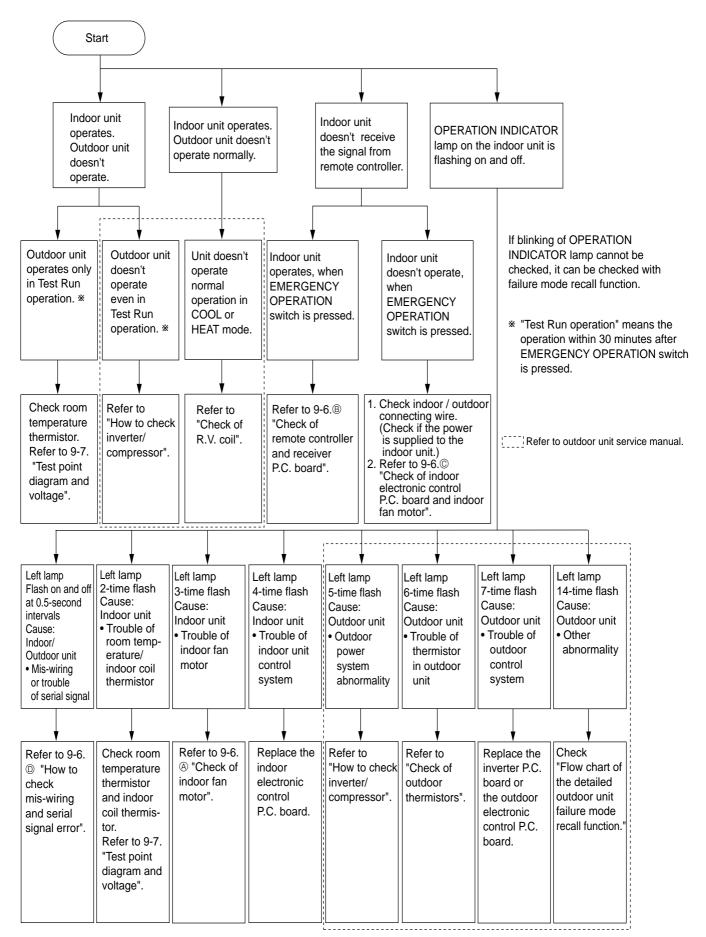
Repeated cycle

#### 2. Indoor unit failure mode table

Left lamp of OPERATION INDICATOR lamp	N Abhomar point Condition		Correspondence	
Not lighted	Normal	-	-	
1-time flash every 0.5-second	Room temperature thermistor	When the room temperature thermistor short or open circuit is detected every 8 seconds during operation.	Refer to the characteristics of the room temperature thermistor (9-7.).	
2-time flash 2.5-second OFF	Indoor coil thermistor	When the indoor coil thermistor short or open circuit is detected every 8 seconds during operation.	Refer to the characteristics of the main indoor coil thermistor, the sub indoor coil thermistor (9-7.).	
3-time flash 2.5-second OFF	Serial signal	When the serial signal from the outdoor unit is not received for a maximum of 6 minutes.	Refer to 9-6. <sup>(()</sup> "How to check mis-wiring and serial signal error".	
11-time flash 2.5-second OFF	Indoor fan motor	When the rotational frequency feedback signal is not emitted during the 12-seconds indoor fan operation.	Refer to 9-6. (a) "Check of indoor fan motor".	
12-time flash 2.5-second OFF	Indoor control system	When it cannot properly read data in the nonvolatile memory of the indoor electronic control P.C. board.	Replace the indoor electronic control P.C. board.	

NOTE : Blinking patterns of this mode differ from the ones of Troubleshooting check table (9-4.).

#### 9-3. Instruction of troubleshooting



#### 9-4. Troubleshooting check table

Before taking measures, make sure that the symptom reappears for accurate troubleshooting. When the indoor unit has started operation and the following 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 OPERATION INDICATOR lamp flashing.

⇒ģ<-	0	
Operation	Indicator	

-) or Blinking

Flashing of OPERATION INDICATOR lamp (left-hand side lamp) indicates abnormalities.

0 Not Lighted

No.	Abnormal point	Operation indicator lamp	Symptom	Condition	Correspondence
1	Mis-Wiring or serial signal	Left lamp flashes. 0.5-second ON ★ ○ ★ ○ ★ ○ ★ ○ 0.5-second OFF	Indoor unit and outdoor unit do not operate.	When serial signal from outdoor unit is not received for a maximum of 6 minutes.	<ul> <li>Refer to 9-6.<sup>®</sup> "How to check mis-wiring and serial signal error".</li> </ul>
2	Indoor coil thermistor Room tempera- ture thermistor	Left lamp flashes. 2-time flash ★ ○ ★ ○ ○ ○ ○ ● ● ● ★ ○ ★ ○ ○ 2.5-second OFF	Indoor unit and outdoor unit do not operate.	When the indoor coil or room temperature thermistor is short or open circuit.	• Refer to 9-7.the characteristics of indoor coil thermistor, and the room temperature thermistor.
3	Indoor fan motor	Left lamp flashes. 3-time flash ★ ○ ★ ○ ★ ○ ○ ○ ○ ★ ○ ★ ○ ★ ○ ● ○ ○ 2.5-second OFF	Indoor unit and outdoor unit do not operate.	When rotational frequency feedback signal is not emit during indoor fan operation.	<ul> <li>Refer to 9-6. Image "Check of indoor fan motor".</li> </ul>
4	Indoor control system	Left lamp flashes. 4-time flash ★○★○★○★○★○★○★○★○★○★○★○★○★○★○★○★○★○★○★○	Indoor unit and outdoor unit do not operate.	When it cannot properly read data in the nonvolatile memory of indoor electronic control P.C. board.	Replace the indoor electronic control P.C. board.
5	Outdoor power system	Left lamp flashes. 5-time flash ★ ○ ★ ○ ★ ○ ★ ○ ★ ○ ◆ ○ ○ ○ ★ ○ ★ ○ ★ ○ L 2.5-second OFF	Indoor unit and outdoor unit do not operate.	When it consecutively occurs 3 times that the compressor stops for overcurrent protection or start-up failure protection witth in 1 minute after start-up.	Refer to "How to check of inverter/compressor". Refer to outdoor unit service manual .     Check the stop valve.
6	Outdoor thermistors	Left lamp flashes. 6-time flash ★ ○ ★ ○ ★ ○ ★ ○ ★ ○ ★ ○ ★ ○ ★ ○ 2.5-second OFF	Indoor unit and outdoor unit do not operate.	Outdoor thermistors short or open circuit during compressor operation.	<ul> <li>Refer to "Check of outdoor thermistor".</li> <li>Refer to outdoor unit service manual.</li> </ul>
7	Outdoor control system	Left lamp flashes. 7-time flash ★○★○★○★○★○★○★○★○○○○★ 2.5-second OFF	Indoor unit and outdoor unit do not operate.	When it cannot properly read data in the nonvolatile memory of the inverter P.C. board or the outdoor electronic control P.C. board.	Replace the inverter P.C. board or the outdoor electronic control P.C. board. Refer to outdoor unit service manual.
8	Other abnormality	Left lamp flashes. 14-time flash ★○★○★○★○★○★○★○★○★○★○★○★○★○ ★○★○★○★○★○★	Indoor unit and outdoor unit do not operate.	An abnormality other than above mentioned is detected.	<ul> <li>Confirm the abnormality in detail using the failure mode recall function for outdoor unit.</li> </ul>

	Ì∳ 0 Operation Indicato	or -òʻ, Blinking at	normality.	ATION INDICATOR lamp (right-hand s	
No.	Abnormal point	Operation indicator lamp	Symptom	Condition	Correspondence
		Salat Jawa dia ah			

No	point	Operation indicator lamp	Symptom	Condition	Correspondence
1	MXZ type Operation mode setting	Right lamp flash ♦ ○ ○ ○ ○ ♥ ○ ○ ○ ○ ♥ 2.5-second OFF	Outdoor unit operates but indoor unit does not operate.	When the operation mode of each indoor unit is differently set to COOL(includes DRY) and HEAT at the same time, the operation mode of indoor unit that has operated at first has the priority.	Unify the operation mode. Refer to outdoor unit service manual.

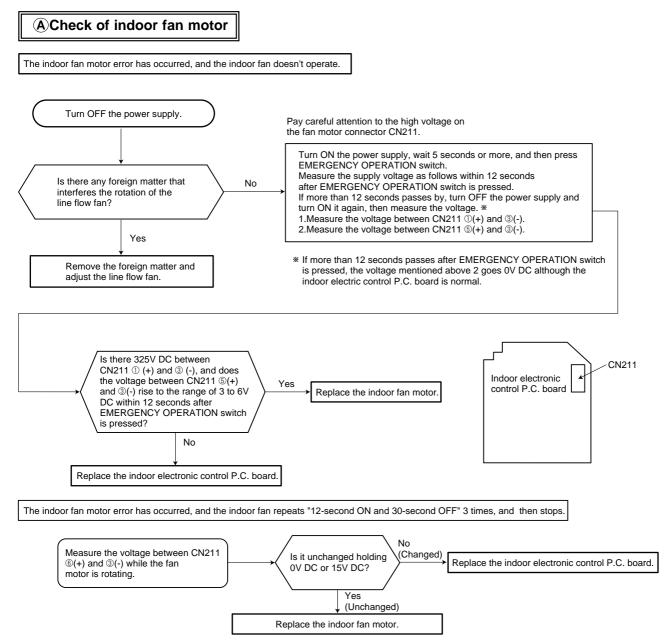
## 9-5. Trouble criterion of main parts

## MSZ-GA50VA MSZ-GA60VA MSZ-GA71VA

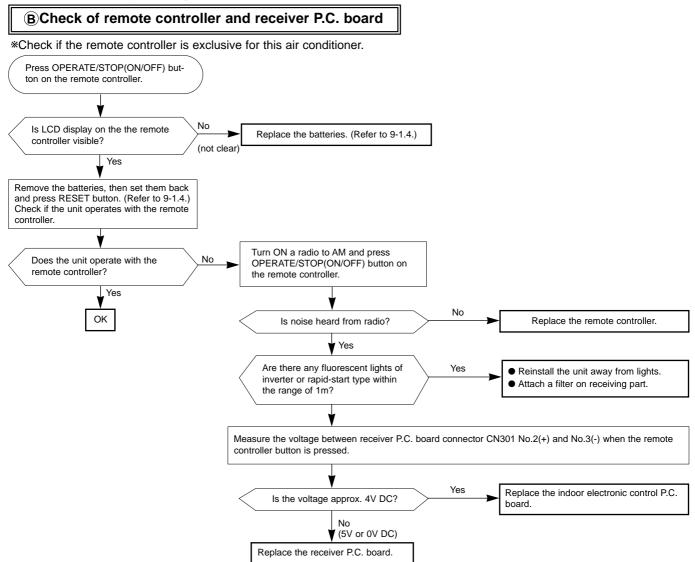
Part name	Check method and criterion	Figure
Room temperature thermistor(RT11)	Measure the resistance with a tester. Refer to 9-7. "Test point diagram and voltage", "Indoor electronic control	
Indoor coil thermistor (RT12(MAIN), RT13(SUB))	P.C. board", the chart of thermistor.	
Indoor fan motor(MF)	Check 9-6. @.	
Horizontal vane motor(MV1) Vertical vane motor(MV2)	Measure the resistance between the terminals with a tester.(Part temperature $10^{\circ}$ C ~ $30^{\circ}$ C)Color of the lead wireNormalBRN-other one $282 \Omega \sim 306 \Omega$	RED YLW BRN ORN GRN

#### 9-6. Troubleshooting flow

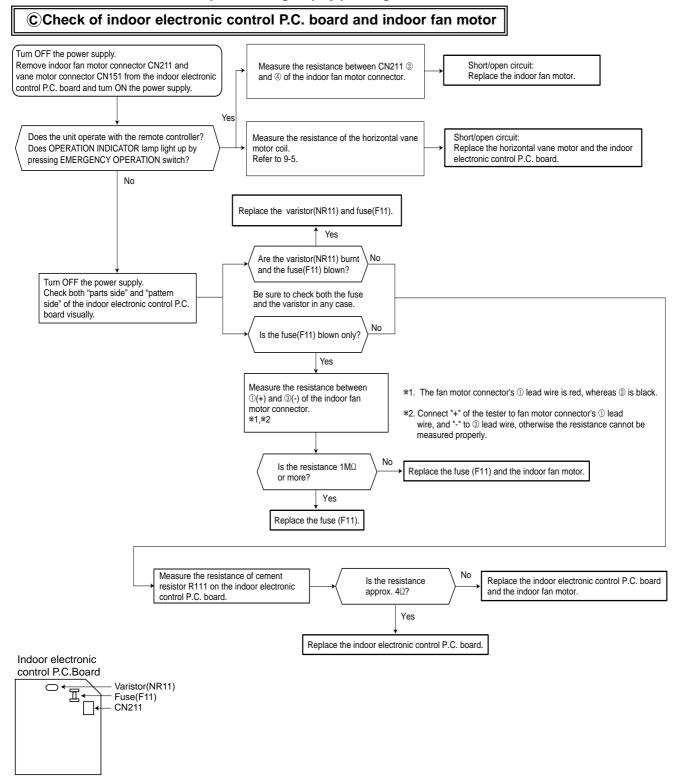
## When OPERATION INDICATOR lamp flashes 3-time. Indoor fan does not operate.



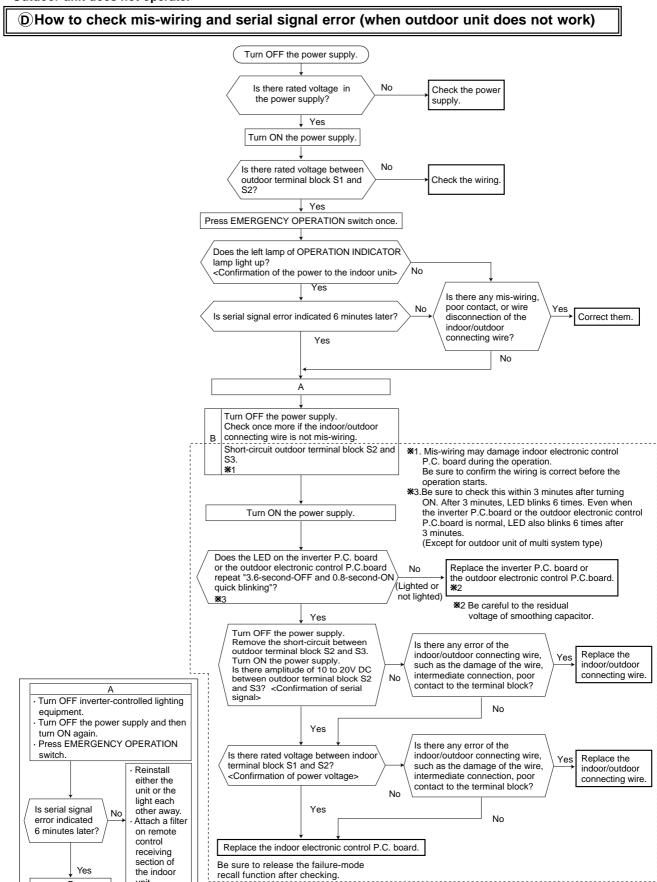
Indoor unit operates by pressing EMERGENCY OPERATION switch, but does not operate with the remote controller.



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



 When unit cannot operate neither by the remote controller nor by EMERGENCY OPERATION switch. Indoor unit does not operate.



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

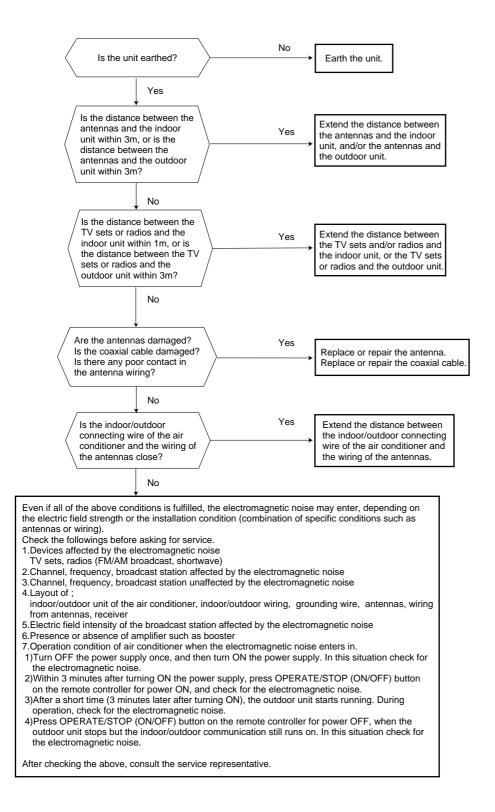
21

Refer to outdoor unit service manual

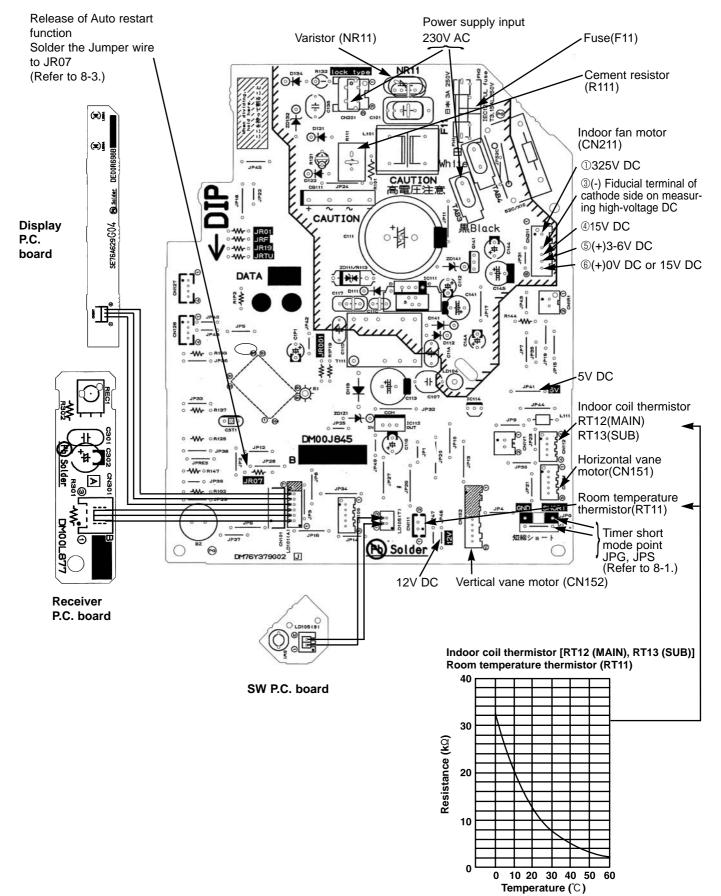
unit.

В

#### (E) Electromagnetic noise enters into TV sets or radios



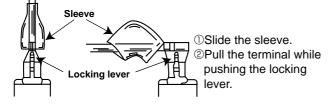
## 9-7. Test point diagram and voltage MSZ-GA50VA MSZ-GA60VA MSZ-GA71VA Indoor electronic control P.C. board



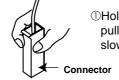
## <"Terminal with locking mechanism" Detaching points>

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.

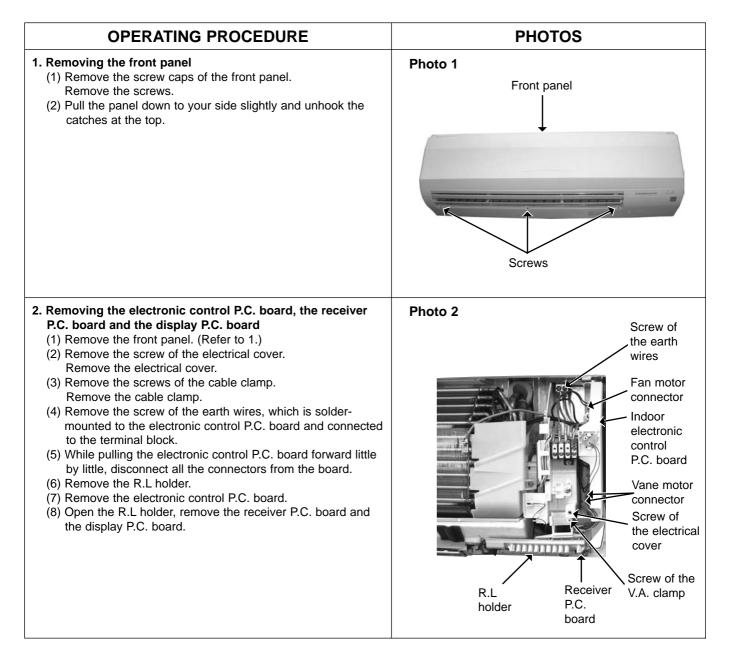


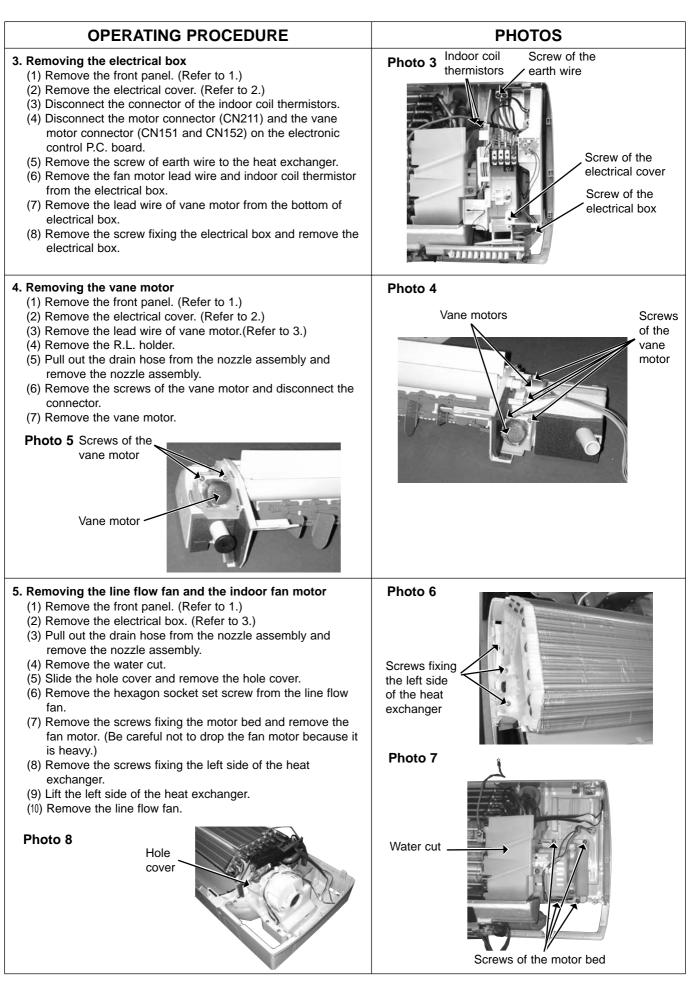
(2) The terminal with this connector has the locking mechanism.



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

## MSZ-GA50VA MSZ-GA60VA MSZ-GA71VA

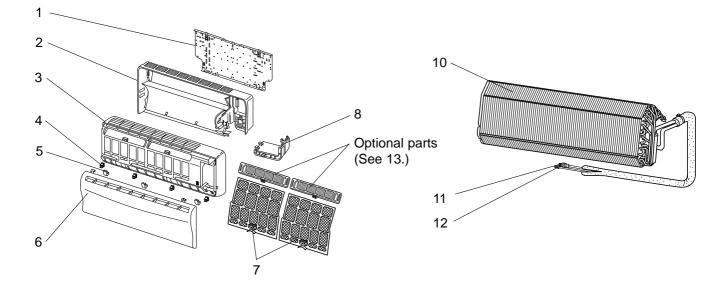




11

**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.

			Symbol		Q'ty/unit		
No.	Part No.	Part Name	in Wiring Diagram	MSZ-GA50 VA - E1	MSZ-GA60 VA - E1	MSZ-GA71 VA - 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	САТСН		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	
8	E02 685 975	CORNER BOX RIGHT		1	1	1	
9	E02 918 007	LAMP PANEL		1	1	1	

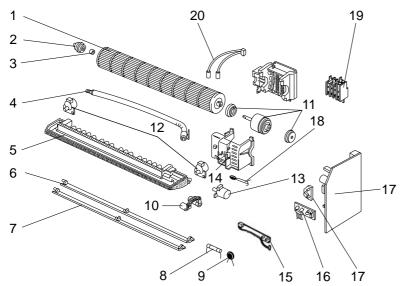
## **11-2. INDOOR UNIT HEAT EXCHANGER**

10	E02 851 62	0 INDOOR HEAT EXCHANGER	1	1		
10	E02 819 62	0 INDOOR HEAT EXCHANGER			1	
11	E02 179 60	7 UNION (GAS)	1			φ <b>12.7</b>
1.1	E02 138 60	6 UNION (GAS)		1	1	¢15.88
12	E02 151 66	7 UNION (LIQUID)	1	1		¢6.35
12	E02 527 66	7 UNION (LIQUID)			1	<b>∮9.52</b>

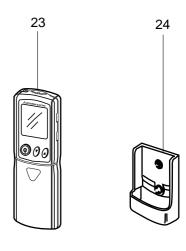
## **PARTS LIST (non-RoHS compliant)**

## **MSZ-GA50VA MSZ-GA60VA MSZ-GA71VA**

### **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		Q'ty/unit		
No.	Part No.	Part Name	in Wiring Diagram	MSZ-GA50 VA - E1	MSZ-GA60 VA - E1	MSZ-GA71 VA - 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 A87 235	NOZZLE		1	1	1	
6	E02 685 040	VANE UPPER		1	1	1	
7	E02 685 041	VANE LOWER		1	1	1	
8	E02 A49 382	FUSE	F11	1	1	1	3.15A
9	E02 661 385	VARISTOR	NR11	1	1	1	
10	E02 527 034	VANE CRANK SET		1	1	1	
11	E02 918 300	INDOOR FAN MOTOR ASSEMBLY *1	MF	1	1	1	RC0J56 - □□
12	E02 448 303	VANE MOTOR (VERTICAL)	MV2	2	2	2	<b>RIGHT &amp; LEFT</b>
13	E02 408 303	VANE MOTOR (HORIZONTAL)	MV1	1	1	1	UP & DOWN
14		MOTOR BAND		1	1	1	
15	E02 918 329	DISPLAY P.C. BOARD		1	1	1	
16		RECEIVER P.C. BOARD		1	1	1	
		ELECTRONIC CONTROL P.C. BOARD *2		1			AUTO RESTART
17		ELECTRONIC CONTROL P.C. BOARD *2			1		AUTO RESTART
	E02 920 452	ELECTRONIC CONTROL P.C. BOARD *2				1	AUTO RESTART
18	E02 527 308	ROOM TEMPERATURE THERMISTOR	RT11	1	1	1	
19	E02 918 375	TERMINAL BLOCK	TB	1	1	1	
20	E02 918 307	INDOOR COIL THERMISTOR	RT12, RT13	1	1		
20	E02 920 307	INDOOR COIL THERMISTOR	RT12, RT13			1	
21	E02 528 034	VANE MOTOR SUPPORT SET(RIGHT)		1	1	1	
22		VANE MOTOR SUPPORT SET(LEFT)		1	1	1	

\*1 Including FAN MOTOR RUBBER MOUNT \*2 Including SW P.C. BOARD

### **11-4. ACCESSORY AND REMOTE CONTROLLER**

23 E02 918 426	REMOTE CONTROLLER	1	1	1	KM05C
24 E02 527 083	REMOTE CONTROLLER HOLDER	1	1	1	

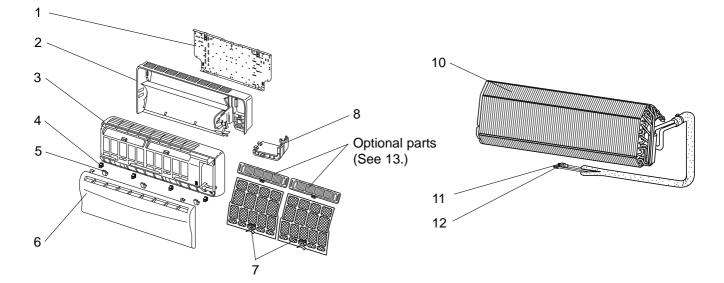
## 12 RoHS PARTS LIST (RoHS compliant)

## MSZ-GA50VA MSZ-GA60VA

MSZ-GA71VA

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		Q'ty/unit		
No.	RoHS	Part No.	Part Name	in Wiring Diagram	MSZ-GA50 VA - E1	MSZ-GA60 VA - E1	MSZ-GA71 VA - 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	1PC/ SET
8	G	E12 685 975	CORNER BOX RIGHT		1	1	1	
9	G	E12 918 007	LAMP PANEL		1	1	1	

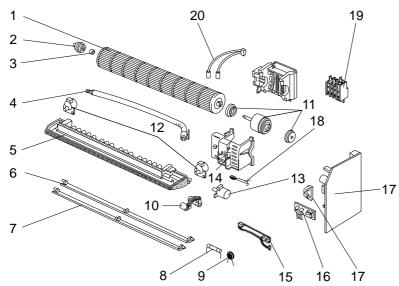
## **12-2. INDOOR UNIT HEAT EXCHANGER**

10	G	E12 8	51 620	INDOOR HEAT EXCHANGER	1	1		
10	G	E12 8 <sup>4</sup>	9 620	INDOOR HEAT EXCHANGER			1	
44	G	E12 17	79 667	UNION (GAS)	1			φ <b>12.7</b>
1.1	G	E12 1	38 666	UNION (GAS)		1	1	<b>∮15.88</b>
12	G	E12 1	51 667	UNION (LIQUID)	1	1		<b>∮6.35</b>
12	G	E12 5	27 667	UNION (LIQUID)			1	<b>∮9.52</b>

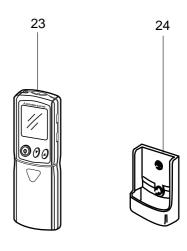
## **RoHS PARTS LIST (RoHS compliant)**

## **MSZ-GA50VA MSZ-GA60VA MSZ-GA71VA**

## **12-3. INDOOR UNIT FUNCTIONAL PARTS AND ELECTRICAL PARTS**



**12-4. ACCESSORY AND REMOTE CONTROLLER** 



#### **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.	RoH	Part No.	Part Name	in Wiring Diagram	MSZ-GA50 VA - E1	MSZ-GA60 VA - E1	MSZ-GA71 VA - E1	Remarks
1	G	E12 527 302	LINE FLOW FAN		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 A87 235	NOZZLE		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 661 385	VARISTOR	NR11	1	1	1	
10	G	E12 527 034	VANE CRANK SET		1	1	1	
11	G	E12 918 300	INDOOR FAN MOTOR ASSEMBLY *1	MF	1	1	1	RC0J56 - □□
12	G	E12 448 303	VANE MOTOR (VERTICAL)	MV2	2	2	2	<b>RIGHT &amp; LEFT</b>
13	G	E12 408 303	VANE MOTOR (HORIZONTAL)	MV1	1	1	1	UP & DOWN
14	G	E12 918 333	MOTOR BAND		1	1	1	
15	G	E12 918 329	DISPLAY P.C. BOARD		1	1	1	
16	G		RECEIVER P.C. BOARD		1	1	1	
	G		ELECTRONIC CONTROL P.C. BOARD *2		1			AUTO RESTART
17	G		ELECTRONIC CONTROL P.C. BOARD *2			1		AUTO RESTART
	G	E12 920 452	ELECTRONIC CONTROL P.C. BOARD *2				1	AUTO RESTART
18	G	E12 527 308	ROOM TEMPERATURE THERMISTOR	RT11	1	1	1	
19	G	E12 918 375	TERMINAL BLOCK	ТВ	1	1	1	
	G	E12 918 307	INDOOR COIL THERMISTOR	RT12, RT13	1	1		
20	G	E12 920 307	INDOOR COIL THERMISTOR	RT12, RT13			1	
21	G	E12 528 034	VANE MOTOR SUPPORT SET(RIGHT)		1	1	1	
	G		VANE MOTOR SUPPORT SET(LEFT)		1	1	1	

\*1 Including FAN MOTOR RUBBER MOUNT \*2 Including SW P.C. BOARD

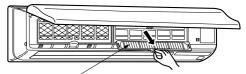
## 12-4. ACCESSORY AND REMOTE CONTROLLER

23 G	E12 918 426	REMOTE CONTROLLER	1	1	1	KM05C
24 G	E12 527 083	REMOTE CONTROLLER HOLDER	1	1	1	

## AIR CLEANING FILTER (ANTI-ALLERGY ENZYME FILTER)

- AIR CLEANING FILTER removes fine dust of 0.01 micron from air by means of static electricity.
- Normal life of AIR CLEANING FILTER is 1 year.
   If AIR CLEANING FILTER is to be washed, soak AIR CLEANING FILTER in water (when showing dirt, in lukewarm water) and rinse it delicately, without removing the filter from the frame about once every 3 months.
- Clogged AIR CLEANING FILTER may reduce the air conditioner capacity or cause frost on the air outlet.
- Do not remove or attach AIR CLEANING FILTER during unit operation.

Model	Part No.
MSZ-GA50VA MSZ-GA60VA MSZ-GA71VA	MAC-2300FT



Air cleaning filter (Anti-allergy enzyme filter:blue bellows type)



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

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