

Revision C:

• MSZ-SF25/35/42/50VE- ER2 have been added.

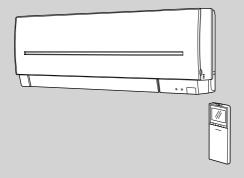
Please void OBH600 REVISED EDITION-B.

INDOOR UNIT SERVICE MANUAL

No. OBH600 REVISED EDITION-C

Models

> Outdoor unit service manual MUZ-SF-VE(H) Series (OBH629) MXZ-C-VA Series (OB584) MXZ-D-VA Series (OBH626) MXZ-8B Series (OCH480)



1. TECHNICAL CHANGES 3 2. PART NAMES AND FUNCTIONS 4 3. SPECIFICATION 5 4. NOISE CRITERIA CURVES 6 5. OUTLINES AND DIMENSIONS 7 6. WIRING DIAGRAM 8 7. REFRIGERANT SYSTEM DIAGRAM 10 8. SERVICE FUNCTIONS 11 9. MICROPROCESSOR CONTROL 13 10. TROUBLESHOOTING 19 11. DISASSEMBLY INSTRUCTIONS 32 PARTS CATALOG (OBB600)

NOTE:

RoHS compliant products have <G> mark on the spec name plate.



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.

<Pre><Preparation before the repair service>

- Prepare the proper tools.
- Prepare the proper protectors.
- Provide adequate ventilation.
- After stopping the operation of the air conditioner, turn off the power-supply breaker and remove the power plug.
- Discharge the capacitor before the work involving the electric parts.

<Pre><Pre>cautions during the repair service>

- Do not perform the work involving the electric parts with wet hands.
- Do not pour water into the electric parts.
- Do not touch the refrigerant.
- Do not touch the hot or cold areas in the refrigeration cycle.
- When the repair or the inspection of the circuit needs to be done without turning off the power, exercise great caution not to touch the live parts.

Revision A:

• MSZ-SF25/35/42/50VE- **□**2 and MSZ-SF25/35/42/50VE- **□**N2 have been added.

Revision B:

- "How to check miswiring and serial signal error" for MUZ type has been added.
- The description about "Low standby power control" has been added to "TECHNICAL CHANGES".

Revision C:

• MSZ-SF25/35/42/50VE- ER2 have been added.

1 TECHNICAL CHANGES

 MSZ-SF25VE-E1
 MSZ-SF25VE-EN1

 MSZ-SF35VE-E1
 MSZ-SF35VE-EN1

 MSZ-SF42VE-E1
 MSZ-SF42VE-EN1

 MSZ-SF50VE-EN1
 MSZ-SF50VE-EN1

1. New model

E2 and EN2 models are compatible with the outdoor units with low standby power control.

Connecting these models to the MUZ-SF·VE(H)-series outdoor units enables the low standby power control. Refer to the technical guide (OBT17) about the low standby power control.

These models may be connected to the MUZ-SF·VE(H) series after once connected to the MXZ series and operated, for example because of relocation. In that case, the MUZ-SF·VE(H) series outdoor units will not operate without taking a step. Follow the procedure "Deleting the memorized abnormal condition" described in 10-2.1.

MSZ-SF25VE-ER2

MSZ-SF35VE-ER2

MSZ-SF42VE-ER2

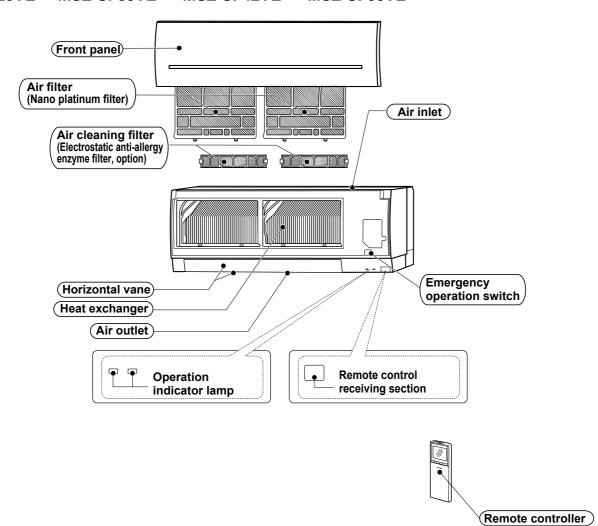
MSZ-SF50VE-ER2

1. New model

^{1.} Indoor electronic control P.C. board has been changed.

PART NAMES AND FUNCTIONS

MSZ-SF25VE MSZ-SF35VE MSZ-SF42VE MSZ-SF50VE



ACCESSORIES

Model	MSZ-SF25VE MSZ-SF35VE MSZ-SF42VE MSZ-SF50VE
① Installation plate	1
② Installation plate fixing screw 4 × 25 mm	5
③ Remote controller holder	1
④ Fixing screw for ③ 3.5 × 16 mm (Black)	2
Battery (AAA) for remote controller	2
Wireless remote controller	1
Felt tape (For left or left-rear piping)	1

SPECIFICATION

		Indo	oor model		MSZ-SF25VE	MSZ-SF35VE	MSZ-SF42VE	MSZ-SF50VE
Power supply			Single phase	e 230 V, 50 Hz				
F	Power	innut			18			22
}	* 1 Heating		W	24 27		35		
<u>1</u>	Running Cooling			0.16		0.18		
ga	*1 Heating Running Cooling current *1 Heating		A	0.20	0	.22	0.27	
1	Model				RC0J21-AA			
motor	Currer	nt * 1	Cooling	A		0.16		0.18
			Heating	_ ^ _	0.20		.22	0.27
	nsions	W×I	H × D	mm			299 × 195	
eigh				kg			10	
1	Air dire	ection					5	
			Super High	1		546	T	594
		Cooling	High			32	474	492
		00	Med.	m³/h		336	402	414
	>	O	Low	1	246 348			366
	Airflow		Silent		210 300			336
			Super High		618		660	720
		Heating	High		492	498	546	588
			Med.	m³/h	402 432		480	
			Low	-	246 348		384	
H			Silent		210 300			336
			Super High	+ +	42		45	
		Cooling	High	-ID(A)	36 38			40
2	<u> </u>	8	Med.	dB(A)	30		34	36 33
<u>a</u>	Sound level	O	Low	+ +	24 21		28	33
special remarks	þ	호 	Super High		45	46	47	49
2	ino			+ +		46 39	47	43
5	(i)	ting	High Med.	dB(A)		34	36	38
		Heating	Low	ub(A)			31	33
		_	Silent	+ +			30	
\vdash			Super High		21 28 1,200		20	1,280
		D	High	1 -	1	000	1,070	1,100
		jii	Med.	rpm		320	940	970
	-	O	Low	19111		660	850	880
	peed	_	Silent	1		590	760	820
	βς L		Super High		1,330		400	1,500
	Fan s	ō	High	1	1,100	1,120	1,200	1,270
			Med.	rpm		940	1,000	1,080
		Τe	Low	† ' · · ·		660	850	910
			Silent	1		i90	760	820
F	Fan speed regulator			'			5	1
_			model			SC	G11D	

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 Indoor Dry-bulb temperature 20°C Wet-bulb temperature 15°C Outdoor Dry-bulb temperature 7°C Wet-bulb temperature 6°C Heating: Indoor

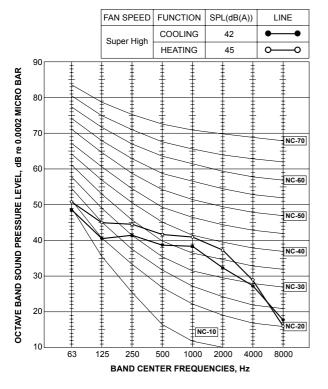
***1** Measured under rated operating frequency.

Specifications and rated conditions of main electric parts

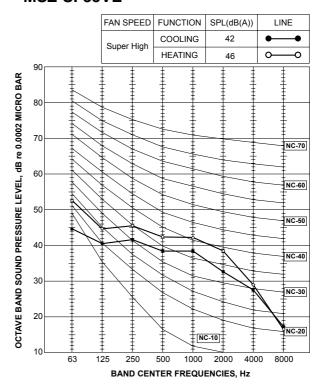
Fuse	(F11) T3.15AL250V		
Horizontal vane motor (MV)		12 VDC	
Varistor (NR11		S10K300E2K1 (ERZV10D471)	
Terminal block (TB)		3P	

NOISE CRITERIA CURVES

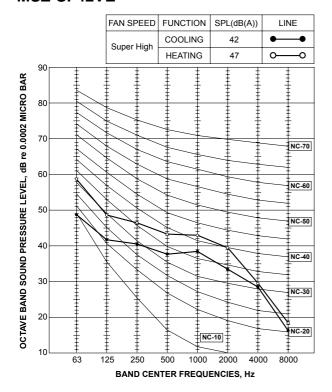
MSZ-SF25VE



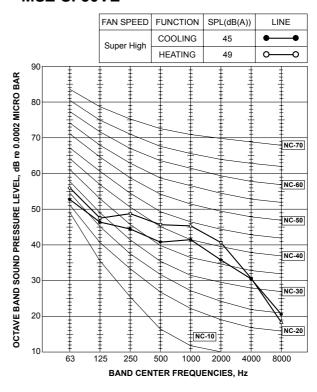
MSZ-SF35VE



MSZ-SF42VE



MSZ-SF50VE



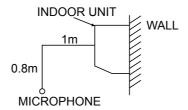
Test conditions

Cooling: Dry-bulb temperature 27 °C

Wet-bulb temperature 19 °C

Heating: Dry-bulb temperature 20 °C

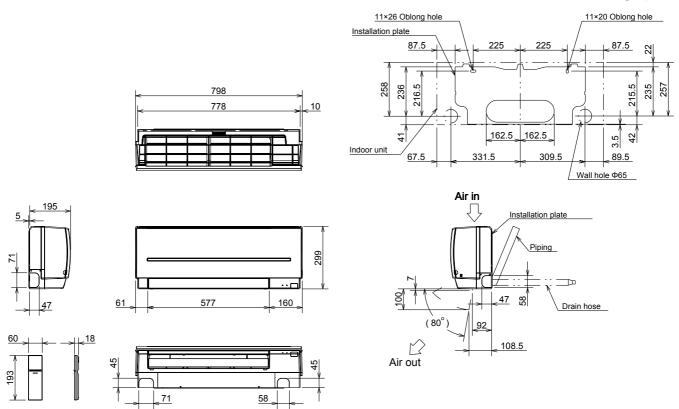
Wet-bulb temperature 15 °C



OUTLINES AND DIMENSIONS

MSZ-SF25VE MSZ-SF35VE MSZ-SF42VE MSZ-SF50VE

Unit: mm



(MSZ-SF25/35/42/50VE- E1, E2, ER2)

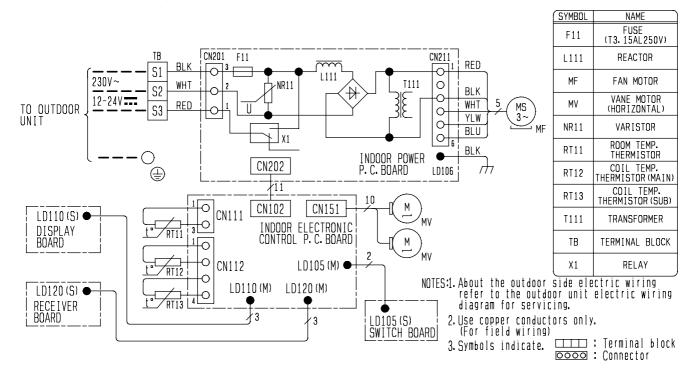
βl	Insulation	Ф37 O.D
Ϊġ	Liquid line	Φ6.35 - 0.39m (Flared connection Φ6.35)
Д		Φ9.52 - 0.34m [Flared connection Φ9.52 (MSZ-SF25/35/42VE), Φ12.7 (MSZ-SF50VE)]
-	Drain hose	Inslation Φ28 Connected part Φ16 O.D

(MSZ-SF25/35/42/50VE- EN1, EN2)

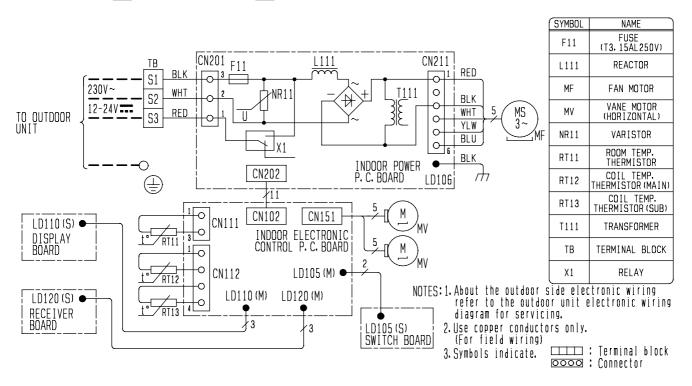
g		Ф37 O.D
ij	Liquid line	Φ6.35 - 0.5m (Flared connection Φ6.35)
	Gas line	Φ9.52 - 0.43m [Flared connection Φ9.52 (MSZ-SF25/35/42VE), Φ12.7 (MSZ-SF50VE)]
	Drain hose	Inslation Φ28 Connected part Φ16 O.D

WIRING DIAGRAM

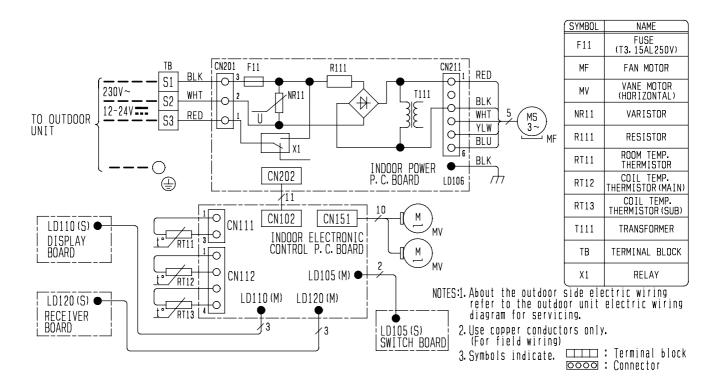
MSZ-SF25VE- E1, E2, EN1, EN2 MSZ-SF42VE- E1, E2, EN1, EN2



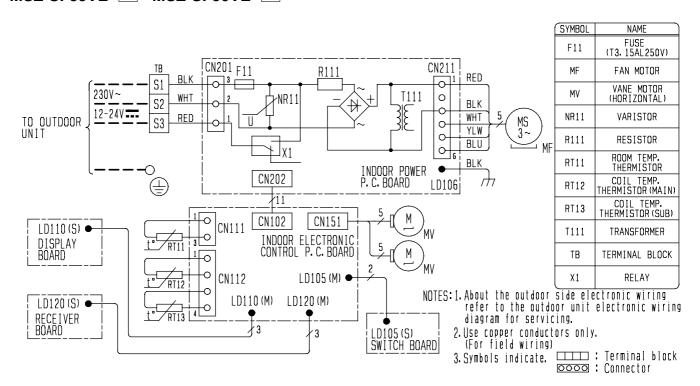
MSZ-SF25VE- ER2 MSZ-SF42VE- ER2



MSZ-SF35VE- E1, E2, EN1, EN2 MSZ-SF50VE- E1, E2, EN1, EN2



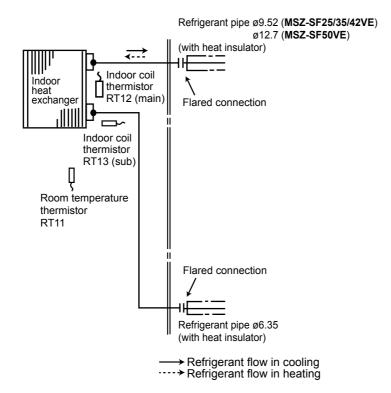
MSZ-SF35VE- ER2 MSZ-SF50VE- ER2



REFRIGERANT SYSTEM DIAGRAM

MSZ-SF25VE MSZ-SF35VE MSZ-SF42VE MSZ-SF50VE

Unit: mm



SERVICE FUNCTIONS

MSZ-SF25VE MSZ-SF35VE MSZ-SF42VE MSZ-SF50VE

8-1. TIMER SHORT MODE

For service, the following set time can be shortened by bridging JPG and JPS on the electronic control P.C. board. (Refer to 10-7.)

Set time: 3 minutes \rightarrow 3 seconds (It takes 3 minutes for the compressor to start operation. However, the starting time is shortened by bridging 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.

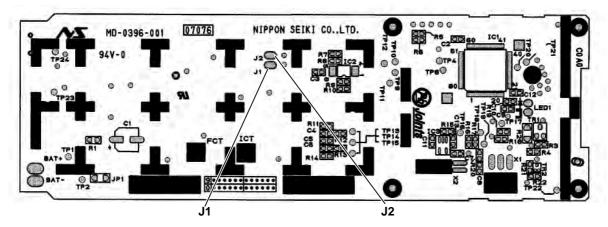
In this case, to operate each indoor unit individually by each remote controller, P.C. boards of remote controller must be modified according to the number of the indoor unit.

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 is turned OFF, or the power supply is shut down.

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

8-3. AUTO RESTART FUNCTION

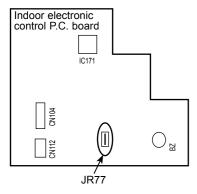
When the indoor unit is controlled with the remote controller, the operation mode, the set temperature, and the fan speed are memorized by the indoor electronic control P.C. board. "AUTO RESTART FUNCTION" automatically starts operation in the same mode just before the shutoff of the main power.

Operation

- ① If the main power has been cut, the operation settings remain.
- ② After 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 disable "AUTO RESTART FUNCTION"

- 1) Turn off the main power for the unit.
- ② Cut the jumper wire to JR77 on the indoor electronic control P.C. board. (Refer to 10-7.)



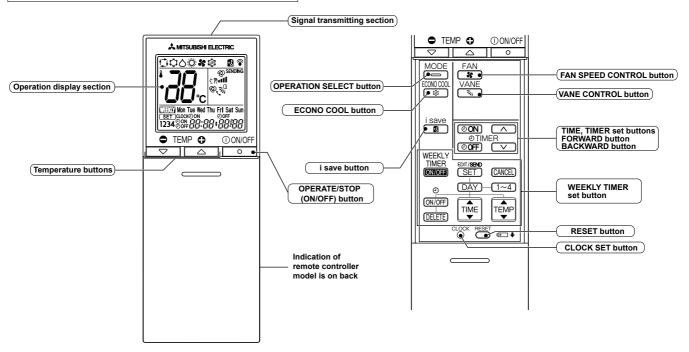
NOTE:

- 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 appliance 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.

MICROPROCESSOR CONTROL

MSZ-SF25VE MSZ-SF35VE MSZ-SF42VE MSZ-SF50VE

WIRELESS REMOTE CONTROLLER



NOTE: Last setting will be stored after the unit is turned OFF with the remote controller. Indoor unit receives the signal of the remote controller with beeps.

INDOOR UNIT DISPLAY SECTION

Operation Indicator lamp

The operation indicator at the right side of the indoor unit indicates the operation state.

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

Indication	Operation state	Room temperature	
* - * -	The unit is operating to reach the set temperature	About 2°C or more away from set temperature	- ∳ - Lighted
₩ 0	The room temperature is approaching the set temperature	About 1 to 2°C from set temperature	-☆- Blinking ○ Not lighted
- ∳;	Standby mode (Only during multi system operation)	_	

9-1. COOL (a) OPERATION

(1) Press OPERATE/STOP (ON/OFF) button.

OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.

- (2) Select COOL mode with OPERATION SELECT button.
- (3) Press TEMPERATURE buttons TEMP \bigcirc or \bigcirc button to select the desired temperature. The setting range is 16 31°C.

1. Coil frost prevention

The compressor operational frequency is controlled by the temperature of the indoor heat exchanger to prevent the coil from frosting.

When the temperature of indoor heat exchanger becomes too low, the coil frost prevention mode works.

The indoor fan operates at the set speed and the compressor stops. This mode continues until the temperature of indoor heat exchanger rises.

2. Low outside temperature operation

When the outside temperature is lower, low outside temperature operation starts, and the outdoor fan slows or stops.

3. Indoor fan speed control

When the thermostat turns OFF, the indoor fan operates very Low to reduce power consumption.

When the room temperature rises and the thermostat is ON, the indoor fan operates according to the settings on the remote controller.

9-2. DRY (△) OPERATION

(1) Press OPERATE/STOP (ON/OFF) button.

OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.

- (2) Select DRY mode with OPERATION SELECT button.
- (3) The set temperature is determined from the initial room temperature.

1. Coil frost prevention

Coil frost prevention works the same way as that in COOL mode. (9-1.1.)

2. Low outside temperature operation

Low outside temperature operation works the same way as that in COOL mode. (9-1.2.)

3. Indoor fan speed control

Indoor fan speed control works the same way as that in COOL mode. (9-1.3.)

9-3. FAN (*) OPERATION

- (1) OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.
- (2) Select FAN mode with OPERATION SELECT button.
- (3) Select the desired fan speed. When AUTO, it becomes Low.

Only indoor fan operates.

Outdoor unit does not operate.

9-4. HEAT (©) OPERATION

(1) Press OPERATE/STOP (ON/OFF) button.

OPERATION INDICATOR lamp of the indoor unit turns on with a beep tone.

- (2) Select HEAT mode with OPERATION SELECT button.
- (3) Press TEMPERATURE buttons TEMP ⊕ or ⊕ button to select the desired temperature. The setting range is 16 31°C.

1. Cold air prevention control

When the compressor is not operating or is starting, and the temperature of indoor heat exchanger and/or the room temperature is low or when defrosting is being done, the indoor fan will stop or rotate in Very Low speed.

2. High pressure protection

The compressor operational frequency is controlled by the temperature of the indoor heat exchanger to prevent the condensing pressure from increasing excessively.

When the temperature of indoor heat exchanger becomes too high, the high pressure protection works.

The indoor fan operates following the cold air prevention control. This mode continues until the temperature of indoor heat exchanger falls.

3. Defrosting

Defrosting starts when the temperature of outdoor heat exchanger becomes too low.

The compressor stops once, the indoor/outdoor fans stop, the 4-way valve reverses, and the compressor re-starts.

This mode continues until the temperature of outdoor heat exchanger rises or the fixed time passes.

9-5. AUTO CHANGE OVER --- AUTO MODE OPERATION

Once desired temperature is set, unit operation is switched automatically between COOL and HEAT operation.

Mode selection

(1) Initial mode

When unit starts the operation with AUTO operation from OFF:

- If the room temperature is higher than the set temperature, operation starts in COOL mode.
- If the room temperature is equal to or lower than the set temperature, operation starts in HEAT mode.

(2) Mode change

COOL mode changes to HEAT mode when about 15 minutes have passed with the room temperature 1°C below the set temperature.

HEAT mode changes to COOL mode when about 15 minutes have passed with the room temperature 1°C above the set temperature.

NOTE 1

If two or more indoor units are operating in multi system, there might be a case that the indoor unit, which is operating in ☐ (AUTO), cannot change over to the other operating mode (COOL ↔ HEAT) and becomes a state of standby.

Refer to NOTE 2 "FOR MULTI SYSTEM AIR CONDITIONER".

NOTF 2

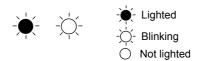
FOR MULTI SYSTEM AIR CONDITIONER

OUTDOOR UNIT: MXZ series

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

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

OPERATION INDICATOR



- When indoor unit 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.

9-6. AUTO VANE OPERATION

1. Horizontal vane

(1) Vane motor drive

These models are equipped with a stepping motor for the horizontal vane. The rotating direction, speed, and angle of the motor are controlled by pulse signals (approximately 12 V) transmitted from indoor microprocessor.

(2) The horizontal vane angle and mode change as follows by pressing VANE CONTROL button.

$$\longrightarrow \text{AUTO} @ \rightarrow 1 \text{ } \text{ } \longrightarrow 2 \text{ } \text{ } \longrightarrow 3 \text{ } \longrightarrow 4 \text{ } / \text{ } \longrightarrow 5 \text{ } / \text{ } \longrightarrow \text{SWING} \text{ } \bigcirc / \text{ } \longrightarrow 1 \text{ } \longrightarrow 1$$

(3) Positioning

To confirm the standard position, the vane moves until it touches the vane stopper. Then the vane is set to the selected angle.

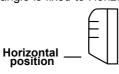
Confirming of standard position is performed in the following cases:

- (a) When the operation starts or finishes (including timer operation).
- (b) When the test run starts.
- (c) When standby mode (only during multi system operation) starts or finishes.
- (4) VANE AUTO (@) mode

In VANE AUTO mode, the microprocessor automatically determines the vane angle to make the optimum room temperature distribution.

In COOL and DRY operation

Vane angle is fixed to Horizontal position.



In HEAT operation

Vane angle is fixed to Angle 4.



(5) STOP (operation OFF) and ON TIMER standby

In the following cases, the horizontal vane returns to the closed position.

- (a) When OPERATE/STOP (ON/OFF) button is pressed (POWER OFF).
- (b) When the operation is stopped by the emergency operation.
- (c) When ON TIMER is ON standby.
- (6) Dew prevention

During COOL or DRY operation with the vane angle at Angle 4 or 5 when the compressor cumulative operation time exceeds 1 hour, the vane angle automatically changes to Angle 1 for dew prevention.

(7) SWING (W) mode

By selecting SWING mode with VANE CONTROL button, the horizontal vanes swing vertically.

When COOL, DRY or FAN mode is selected, only the upper vane swings.

(8) Cold air prevention in HEAT operation

The horizontal vane position is set to Upward.

NOTE: When 2 or more indoor units are operated with multi outdoor unit, even if any indoor unit turns thermostat off, this control does not work in the indoor unit.

(9) ECONO COOL (意) operation (ECONOmical operation)

When ECONO COOL button is pressed in COOL mode, set temperature is automatically set 2°C higher by the micrroprocessor. (However, the temperature on the LCD screen on the remote controller is not changed.) Also the horizontal vane swings in various cycle.

SWING operation makes you feel cooler than set temperature. So, even though the set temperature is higher, the air conditioner can keep comfort. As a result, energy can be saved.

To cancel this operation, select a different mode or press one of the following buttons in ECONO COOL operation: ECONO COOL, or VANE CONTROL button.

9-7. TIMER OPERATION

1. How to set the time

(1) Check that the current time is set correctly.

NOTE: Timer operation will not work without setting the current time. Initially "0:00" blinks at the current time display of TIME MONITOR, so set the current time correctly with CLOCK SET button.

How to set the current time

- (a) Press the CLOCK set button.
- (b) Press the TIME SET buttons (and) to set the current time.
 - Each time FORWARD button () is pressed, the set time increases by 1 minute, and each time BACKWARD button () is pressed, the set time decreases by 1 minute.
 - Pressing those buttons longer, the set time increases/decreases by 10 minutes.
- (c) Press the CLOCK set button.
- (2) Press OPERATE/STOP (ON/OFF) button to start the air conditioner.
- (3) Set the time of timer.

ON timer setting

- (a) Press ON TIMER button(ON) during operation.
- (b) Set the time of the timer using TIME SET buttons (and). *

OFF timer setting

- (a) Press OFF TIMER button (OOFF) during operation.
- (b) Set the time of the timer using TIME SET buttons (and). *
- ** Each time FORWARD button () is pressed, the set time increases by 10 minutes: each time BACKWARD button () is pressed, the set time decreases by 10 minutes.

2. To release the timer

To release ON timer, press ON TIMER button (OON).

To release OFF timer, press OFF TIMER button(@OFF).

TIMER is cancelled and the display of set time disappears.

PROGRAM TIMER

- OFF timer and ON timer can be used in combination. The timer of the set time that is reached first will operate first.
- "

 and "

 "

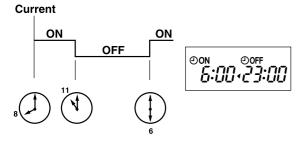
 display shows the order of OFF timer and ON timer operation.

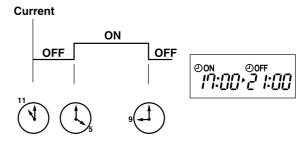
(Example 1) The current time is 8:00 PM.

(Example 2) The current time is 11:00 AM.

The unit turns off at 11:00 PM, and on at 6:00 AM.

The unit turns on at 5:00 PM, and off at 9:00 PM.





NOTE: If the main power is turned OFF or a power failure occurs while ON/OFF timer is active, the timer setting is cancelled. As these models are equipped with an auto restart function, the air conditioner starts operating with timer cancelled when power is restored.

9-8. WEEKLY TIMER OPERATION

- A maximum of 4 ON or OFF timers can be set for individual days of the week.
- · A maximum of 28 ON or OFF timers can be set for a week.

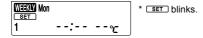
E.g.: Runs at 24°C from waking up to leaving home, and runs at 27°C from getting home to going to bed on weekdays. Runs at 27°C from waking up late to going bed early on weekends. Setting1 Setting2 Setting3 Setting4 Mor ON OFF ON OFF 24°C Fri 6:00 8:30 17:30 22:00 Setting1 Setting2 Sat 27°C Sun 8.00 21:00

NOTE:

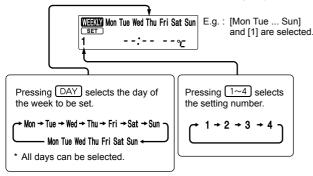
- The simple ON/OFF timer setting is available while the weekly timer is on. In this case, the ON/OFF timer has priority over the weekly timer; the weekly timer operation will start again after the simple ON/OFF timer is complete.
- When the weekly timer is set, temperature cannot be set to 10°C.
- The weekly timer operation and i-save operation cannot be used together.

1. How to set the weekly timer

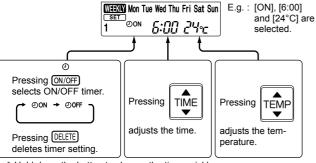
- * Make sure that the current time and day are set correctly.
- (1) Press SET button to enter the weekly timer setting mode.



(2) Press DAY and 1~4 buttons to select setting day and number.



(-) (3) Press ON/OFF, TIME , and buttons to set ON/OFF, time, and temperature.



* Hold down the button to change the time quickly.

Press DAY and 1~4 buttons to continue setting the timer for other days and/or numbers.

(4) Press SET button to complete and transmit the weekly timer setting.

13:00 NOTE: displayed.

SET which was blinking goes out, and the current time will be

- Press SET button to transmit the setting information of weekly timer to the indoor unit. Point the remote controller toward the indoor unit for 3 seconds.
- When setting the timer for more than one day of the week or one number, one number, button does not have to be pressed per each setting. Press SET button once after all the settings are complete. All the weekly timer settings will be saved.
- Press SET button to enter the weekly timer setting mode, and press and hold DELETE button for 5 seconds to erase all weekly timer settings. Point the remote controller toward the indoor unit.

(5) Press THER button to turn the weekly timer ON. (THE IN lights.)

•When the weekly timer is ON, the day of the week whose timer setting is complete, will light.

Press TMER button again to turn the weekly timer OFF. (THEREN) goes out.)

NOTE:

The saved settings will not be cleared when the weekly timer is turned OFF.

2. Checking weekly timer setting

(1) Press SET button to enter the weekly timer setting mode.

* SET blinks

- (2) Press DAY or 1~4 buttons to view the setting of the particular day or number.
- (3) Press CANCEL button to exit the weekly timer setting.

9-9. i-save (2) OPERATION

1. How to set i-save operation

- (1) Press OPERATE/STOP (ON/OFF) button.
- (2) Select COOL, HEAT or ECONO COOL mode.
- (3) Press i-save button.
- (4) Set the temperature, fan speed, and airflow direction for i-save operation.

NOTE:

- i-save operation cannot be selected during DRY or AUTO mode operation.
- The setting range of HEAT mode i-save operation is 10°C and 16 31°C.
- 2 groups of setting can be saved. (One for COOL/ECONO COOL, one for HEAT)
- i-save operation and the weekly timer operation cannot be used together.

2. How to cancel operation

- Press i-save button again.
- i-save operation can also be cancelled by pressing OPERATION SELECT button to change the operation mode. The same setting is select from the next time by simply pressing i-save button.

9-10. EMERGENCY/TEST OPERATION

In case of test run operation or emergency operation, use EMERGENCY OPERATION switch on the right side of the indoor unit. Emergency operation is available when the remote controller is missing, has failed or the batteries of the remote controller run down. The unit will start and OPERATION INDICATOR lamp will light.

The first 30 minutes of operation is the test run operation. This operation is for servicing. The indoor fan runs at High speed and the temperature control does not work.

After 30 minutes of test run operation, the system shifts to EMERGENCY COOL/HEAT MODE with a set temperature of 24°C. The fan speed shifts to Med.

The coil frost prevention works even in the test run or the emergency operation.

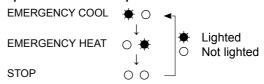
In the test run or emergency operation, the horizontal vane operates in VANE AUTO (@) mode.

Emergency operation continues until EMERGENCY OPERATION switch is pressed once or twice or the unit receives any signal from the remote controller. In case of latter, normal operation will start.

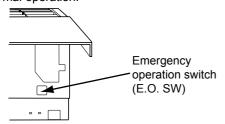
Operation mode	COOL/HEAT
Set temperature	24°C
Fan speed	Med.
Horizontal vane	Auto

The operation mode is indicated by the Operation Indicator lamp as following

Operation Indicator lamp

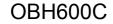


NOTE: Do not press EMERGENCY OPERATION switch during normal operation.



9-11. 3-MINUTE TIME DELAY OPERATION

When the system turns OFF, compressor will not restart for 3 minutes as 3-minute time delay function operates to protect compressor from overload.



TROUBLESHOOTING

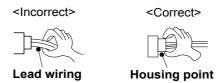
MSZ-SF25VE MSZ-SF35VE MSZ-SF42VE MSZ-SF50VE

10-1. CAUTIONS ON TROUBLESHOOTING

- 1. Before troubleshooting, check the following
 - 1) Check the power supply voltage.
 - 2) Check the indoor/outdoor connecting wire for miswiring.

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 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 P.C. board.
- 3) When removing the 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

- 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) When the electronic control P.C. board seems to be defective, check the copper foil pattern for disconnection and the components for bursting and discoloration.
- 4) When troubleshooting, refer to 10-2, 10-3 and 10-4.

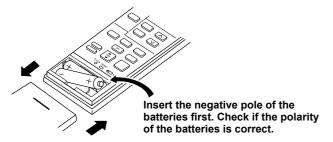
4. How to replace batteries

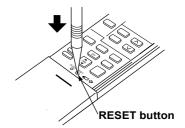
Weak batteries may cause the remote controller malfunction.

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 RESET button with a thin instrument, and then use the remote controller.





NOTE: 1. If RESET button is not pressed, the remote controller may not operate correctly.

- 2. This remote controller has a circuit to automatically reset the microcomputer when batteries are replaced. This function is equipped to prevent the microcomputer from malfunctioning due to the voltage drop caused by the battery replacement.
- 3. Do not use the leaking batteries.

10-2. 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 (10-4.) disappears, the memorized failure details can be recalled.

1. Flow chart of failure mode recall function for the indoor/outdoor unit Operational procedure The cause of abnormality cannot be found because the abnormality does not recur. Setting up the failure mode recall function Turn ON the power supply. <Preparation of the remote controller> While pressing both OPERATION SELECT button and TEMP ⊕ button on the remote controller at the same time, press RESET button. ② First, release RESET button. Hold down the other two buttons for another 3 seconds. Make sure that the indicators on the LCD screen shown in the right figure are all displayed. Then release the buttons. **うなるのま**食 8 € Press OPERATE/STOP (ON/OFF) button of the remote controller (the set temperature is displayed) with the remote controller headed towards the indoor unit. %1 ※1 Regardless of normal or abnormal condition a short beep is emitted once the signal is Does the left lamp of OPERATION INDICATOR lamp on the indoor unit blink at the interval of 0.5 Indoor unit is norma But the outdoor unit might be abnormal because there are some abnormalities that can not be recalled with this way. Confirm if outdoor unit is abnormal according to the detailed outdoor unit Blinks: Either indoor or outdoor unit is abnormal Nο Beep is emitted at the same timing as the blinking of the left lamp of OPERATION INDICATOR lamp. #2 (OFF) NOTE: It takes up to 1 minute to indicate the outdoor unit abnormality. Even if the OPERATION INDICATOR lamp is not lighting, keep **▼**(Blinks) Judgment of indoor/outdoor abnormality Before blinking, does the left lamp of OPERATION INDICATOR lamp stay ON for 3 checking at least 1 minute or longer. seconds? Yes Stays ON for 3 seconds (without beep): The outdoor unit is abnormal The outdoor unit is abnormal. The indoor unit is abnormal. Check the blinking pattern, and identify the abnormal point by referring to Check the blinking pattern, and identify the abnormal point by referring to the the outdoor unit failure mode table. (Refer to outdoor unit service manual.) Make sure to check at least two consecutive blinking cycles. 3indoor unit failure mode table. (Refer to 10-2.2) Releasing the failure mode recall function Release the failure mode recall function by the following procedures Turn OFF the power supply and turn it ON again. Press RESET button of the remote controller. Repair the failure parts Deleting the memorized abnormal condition ① After repairing the unit, recall the failure mode again according to "Setting up the failure mode recal function" mentioned above ② Press OPERATE/STOP (ON/OFF) button of the remote controller (the set temperature is displayed) with the remote controller headed towards the indoor unit. ③ Press EMERGENCY OPERATION switch so that the memorized abnormal condition is deleted. **4 Release the failure mode recall function according to "Releasing the failure mode recall function" NOTE: 1. Make sure to release the failure mode recall function after it is set up, otherwise the unit cannot operate properly 2. If the abnormal condition is not deleted from the memory, the last abnormal condition is kept memorized **4 The information regarding whether the connected outdoor unit is a low-standby-power model or a non-*2. Blinking pattern when the indoor unit is abnormal low-standby-power model will also be initialized. (Default= compatible with a low-standby-power model) Blinking at 0.5-Blinking at 0.5second interval second interval ON OFF Beeps Repeated cycle Repeated cycle Repeated cycle *3.Blinking pattern when the outdoor unit is abnormal Blinking at 0.5-Blinking at 0.5-3-second ON 2.5-second OFF 3-second ON second interval $\widetilde{\mathcal{M}}$ OFF

No beep

Repeated cycle

Beeps

Repeated cycle

No beep

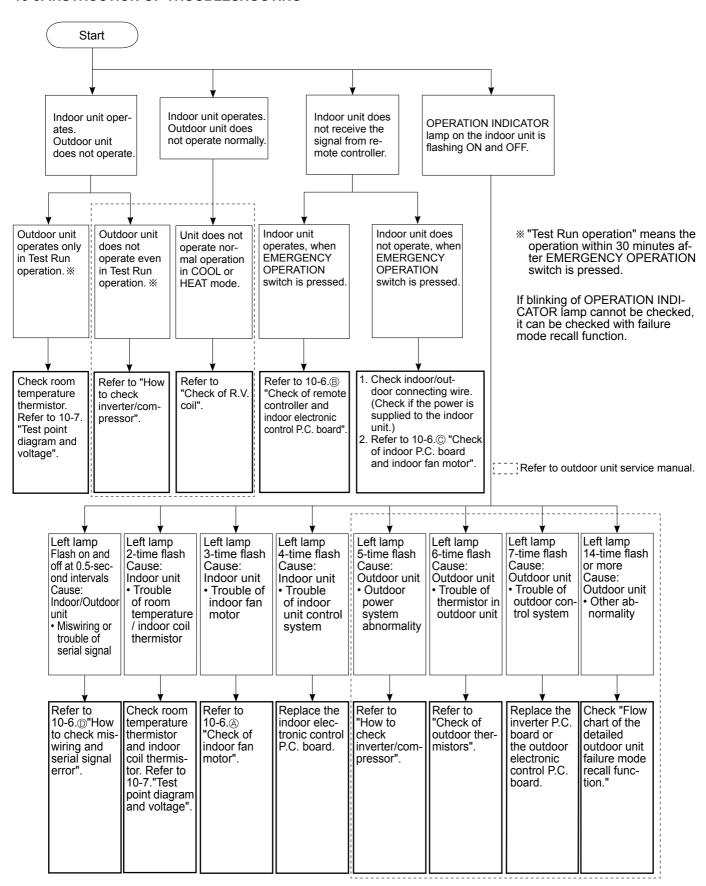
Repeated cycle

2. Indoor unit failure mode table

The left lamp of OPERATION INDI-CATOR lamp	Abnormal point (Failure mode)	Condition	Remedy
Not lighted	Normal	_	_
1-time flash every 0.5-second	Room temperature thermistor	The room temperature thermistor short or open circuit is detected every 8 seconds during operation.	Refer to the characteristics of the room temperature thermistor (10-7.).
2-time flash 2.5-second OFF	Indoor coil thermistor	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 (10-7.).
3-time flash 2.5-second OFF	Serial signal	The serial signal from outdoor unit is not received for a maximum of 6 minutes.	Refer to 10-6. [©] "How to check miswiring and serial signal error".
11-time flash 2.5-second OFF	Indoor fan motor	The rotational frequency feedback signal is not emitted for the 12 seconds after the indoor fan motor is operated.	
12-time flash 2.5-second OFF	Indoor control system	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 (10-4.).

10-3. INSTRUCTION OF TROUBLESHOOTING



10-4. TROUBLESHOOTING CHECK TABLE

Before taking measures, make sure that the symptom reappears for accurate troubleshooting. When the indoor unit has started operation and detected an abnormality of the following condition (the first detection after the power ON), the indoor fan motor turns OFF and OPERATION INDICATOR lamp flashes.

OPERATION INDICATOR

Lighted
Blinking

Not lighted

	Abnormal	Out of the field to the decision	0	0 155	Donat		
No.	point	Operation indicator lamp	Symptom	Condition	Remedy		
1	Miswiring or serial signal	Left lamp flashes. 0.5-second ON				The serial signal from the outdoor unit is not received for 6 minutes. The indoor unit is connected to a low-stand-by-power model after once connected to a non-low-standby-power model.	Refer to 10-6. "How to check miswiring and serial signal er- ror". Refer to NOTE .
2	Indoor coil thermistor Room tem- perature thermistor	Left lamp flashes. 2-time flash		The indoor coil or the room temperature thermistor is short or open circuit.	Refer to the characteristics of indoor coil thermistor, and the room temperature thermistor (10-7.).		
3	Indoor fan motor	Left lamp flashes. 3-time flash ★○★○★○○○○★○★○★○○ 2.5-second OFF	Indoor unit and outdoor unit do not operate.	The rotational frequency feedback signal is not emitted during the indoor fan operation.	Refer to 10-6. "Check of indoor fan motor".		
4	Indoor con- trol system	Left lamp flashes. 4-time flash 2.5-second OFF		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.		
5	Outdoor power sys- tem	Left lamp flashes. 5-time flash		It consecutively occurs 3 times that the compressor stops for overcurrent protection or start-up failure protection within 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		The outdoor thermistors short or open circuit during the compressor operation.	Refer to "Check of outdoor thermistor". Refer to outdoor unit service manual.		
7	Outdoor control sys- tem	Left lamp flashes. 7-time flash		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 ab- normality	Left lamp flashes. 14-time flash or more		An abnormality other than above mentioned is detected.	Check the stop valve. Check the 4-way valve. Confirm the abnormality in detail using the failure mode recall function for outdoor unit.		
9	Outdoor control sys- tem	Left lamp lights up ▼	Outdoor unit does not oper- ate	It cannot properly read data in the nonvolatile memory of the inverter P.C. board or the outdoor electronic control P.C. board.	Check the blinking pattern of the LED on the inverter P.C. board or the outdoor electronic control P.C. board.		

NOTE: The indoor unit may have been connected to a non-low-standby-power model outdoor unit. To use a low-standby-power model, clear the error history by referring to "Deleting the memorized abnormal condition" described in 10-2.1. When the error history is being cleared, the connection information also will be initialized. The indoor unit will be compatible with a low-standby-power model after initialization. If the operation indicator lamp continues to flash as shown in No.1 after the procedure, refer to 10-6.

"How to check miswiring and serial error".

OPERATION INDICATOR





No.	Abnormal point	Operation indicator lamp	Symptom	Condition	Remedy
1	MXZ type Operation mode setting	★ ○ ○ ○ ○ ★ ○ ○ ○ ○ ★2.5-second OFF	indoor unit does	HEAT at the same time, the operation mode	Unify the operation mode. Refer to outdoor unit service manual.

10-5. TROUBLE CRITERION OF MAIN PARTS MSZ-SF25VE MSZ-SF35VE MSZ-SF42VE MSZ-SF50VE

Part name	Check m		Figure	
Room temperature thermistor (RT11) Indoor coil thermistor (RT12, RT13)	Measure the resistance with a te Refer to 10-7. "Test point diagrar P.C. board", for the chart of therr	onic control		
Indoor fan motor (MF)	Check 10-6. (a) "Check of indoor to			
V	Measure the resistance between (Temperature: 10 - 30°C)	the terminals with a tester.	BLK —	
Vane motor (MV)	Color of the lead wire	Normal	RED Z	
	RED - BLK	232 - 268 Ω		BLK BLK

10-6. TROUBLESHOOTING FLOW

A Check of indoor fan motor

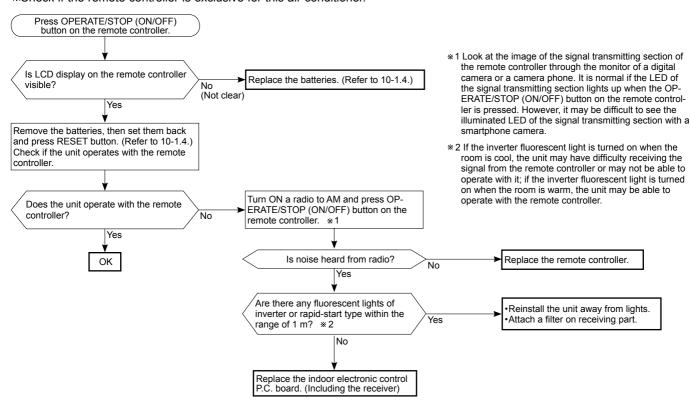
The indoor fan motor error has occurred, and the indoor fan does not operate. Turn OFF the power supply. Pay enough attention to the high voltage on the fan motor connector CN211. Turn ON the power supply, wait 5 seconds or more, and then press EMERGENCY OPERATION switch. Measure the supply voltage as follows within 12 seconds after EMER-GENCY OPERATION switch is pressed. If more than 12 seconds passes, turn OFF the power supply and turn it Is there any foreign matter that interferes ON again, then measure the voltage. * the rotation of the line flow fan? No <Indoor power P.C. board> 1. Measure the voltage between CN211 ①(+) and ③(-). 2. Measure the voltage between CN211 5(+) and 3(-). <Indoor electronic control P.C. board> 3. Measure the voltage between CN102 ©(+) and JPG (GND)(-) Remove the foreign matter and **%** If more than 12 seconds passes after EMERGENCY OPERATION switch adjust the line flow fan. is pressed, the voltage measured at 2. above goes 0 VDC although the indoor P.C. board is normal. Does the voltage between CN211 ® Is there 325 VDC (+) and ③ (-) on the power P.C. board between CN211 ① (+) rise to the range of 3 to 6 VDC within Replace the indoor fan motor. Yes Yes and 3 (-)? 12 seconds after EMERGENCY OPERATION switch is pressed? Nο No Does the voltage between CN102 ② (+) and JPG (GND)(-) on the indoor electronic control P.C. board fall to Replace the indoor electronic Replace the indoor power Yes 2 V or less within 12 seconds after No control P.C. board. P.C. board. **EMERGENCY OPERATION switch is** pressed? The indoor fan motor error has occurred, and the indoor fan repeats "12-second ON and 30-second OFF" 3 times, and then stops. Measure the voltage CN102 ①(+) Measure the voltage between CN211 Is it unchanged holding and JPG (GND)(-) on the indoor ®(+) and ③(−) while the fan motor is 0 or 15 VDC? electronic control P.C board when rotating. (Changed) the fan motor is rotaring (Unchanged) Replace the indoor fan motor. Replace the indoor Replace the indoor power P.C. Is it unchanged holding electronic control P.C. 0 or 5 VDC? board. board

(Unchanged

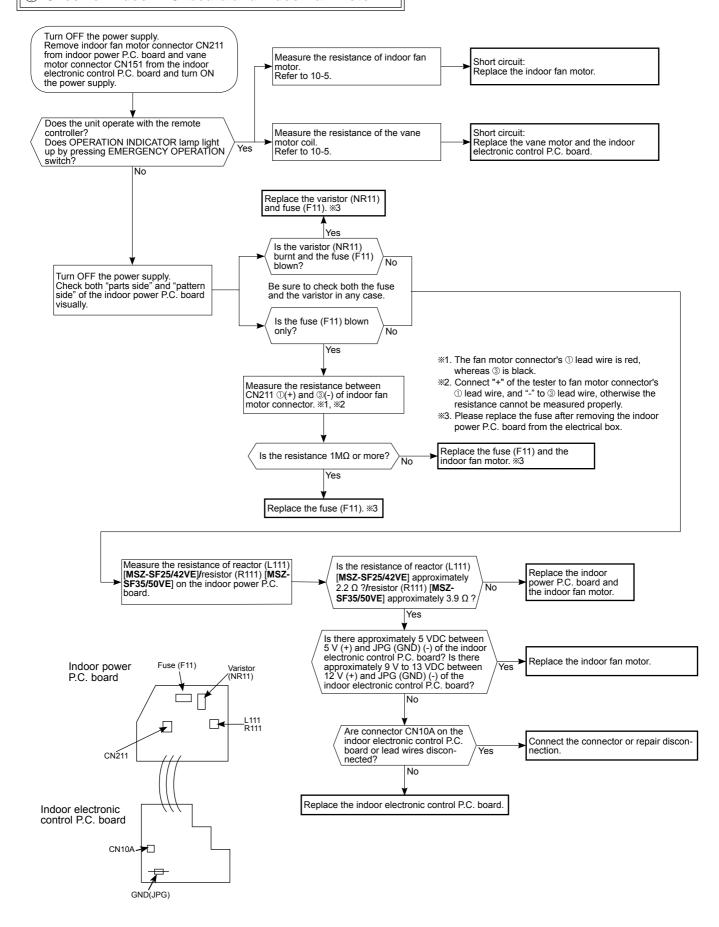
(Changed)

B Check of remote controller and indoor electronic control P.C. board

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



C Check of indoor P.C. board and indoor fan motor



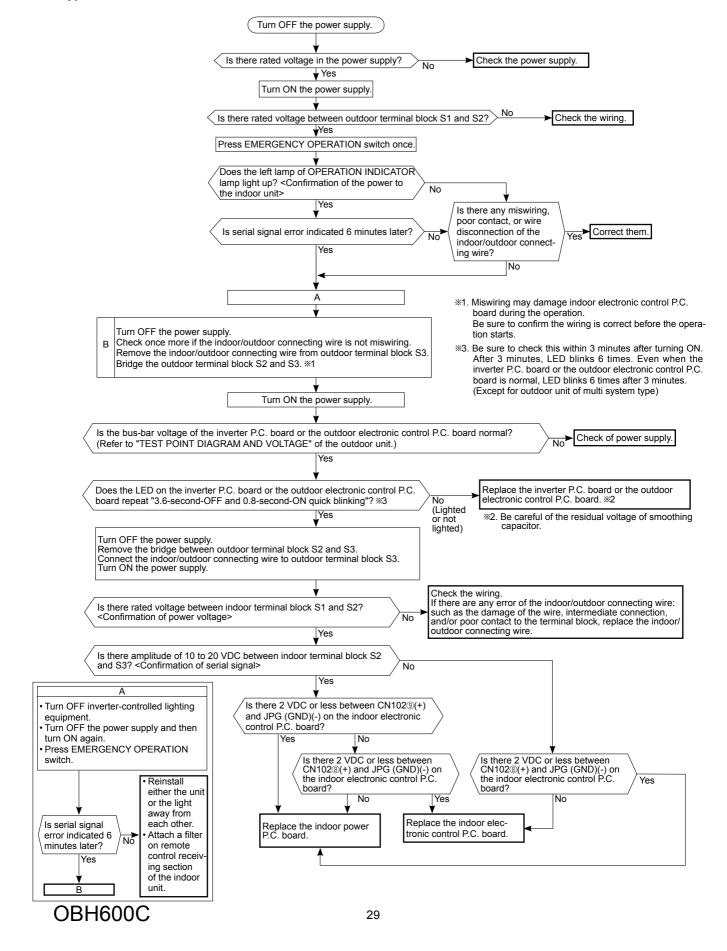
D How to check miswiring and serial signal error Turn the main power supply **MUZ Type** Is there rated voltage in the power supply? Check the power supply. Yes Check for incorrect indoor-outdoor connecting wiring. Was the indoor unit ever connected to the Multi (MXZ) series and operated No (turned on)? The connection information to the Multi series is stored in the indoor unit. Refer to "Deleting the memorized abnormal condition" described in 10-2.1 to clear the error history. When the error history is being cleared, the connection information also will be initialized. The indoor unit will be compatible with a low-standby-power model after initialization. initialization B Turn the main power supply ON. Check for miswiring, broken wires, and loose wire connection between the main power Is there rated voltage between outdoor terminal block S1 and S2? supply and outdoor terminal block S1 and between the main power supply and outdoor √Yes terminal block S2. Wait for 2 or more minutes after the main power supply is turned on. Touch S2 and S3 with tester probes and start the emergency operation. When the emergency operation starts, does the rated voltage occur for 2 No seconds between indoor terminal block S2 and S3? Yes Turn the main power supply Does the indoor OPERATION No INDICATOR lamp (left) blink No Does the outdoor LED light up? Turn the main power supply continuously 6 minutes after the ON. emergency operation starts? Yes Confirm that the thermostat is OFF Wait for 2 or more minutes after the main power supand wiring is not loose ply is turned ON. Touch CN202 (5) and JPG with tester probes and start the emergency operation. Does the outdoor LED blink 6 Replace the outdoor inverter P.C. board. *1 During the emergency operation, does DC (2V or more) occur for 2 times? No Yes seconds between CN202 5 and JPG on the indoor electronic control Does DC (6V or more) occur No P.C. board? ➤ Replace the outdoor inverter P.C. board. ※1 between indoor terminal block S2 Ų Yes and S3? Yes Replace the Replace the indoor power P.C indoor electronic Turn the main power supply OFF. board control P.C. board. Electric charge may remain immediately Replace the indoor power P.C. after the main power supply is turned OFF. board Perform the procedure after 3 minutes Turn the main power supply ON. Start the emergency operation. • Turn OFF inverter-controlled lighting equipment. Does the indoor OPERATION Turn OFF the power supply and then turn ON again. INDICATOR lamp (left) blink No Repair completed. Press EMERGENCY OPERATION switch. continuously 6 minutes after the emergency operation starts? Reinstall either the unit or the light Is serial signal away from each other. Does DC (20V or more) occur error indicated 6 Attach a filter on remote control No Replace the outdoor between indoor terminal block S2 minutes later? receiving section of the indoor unit. inverter P.C. board. *1 and S3?

Yes

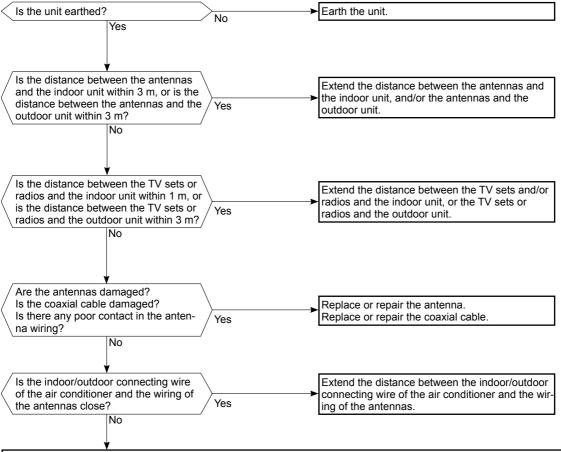
Replace the indoor electronic control P.C. board.

OBH600C

MXZ Type



(E) Electromagnetic noise enters into TV sets or radios



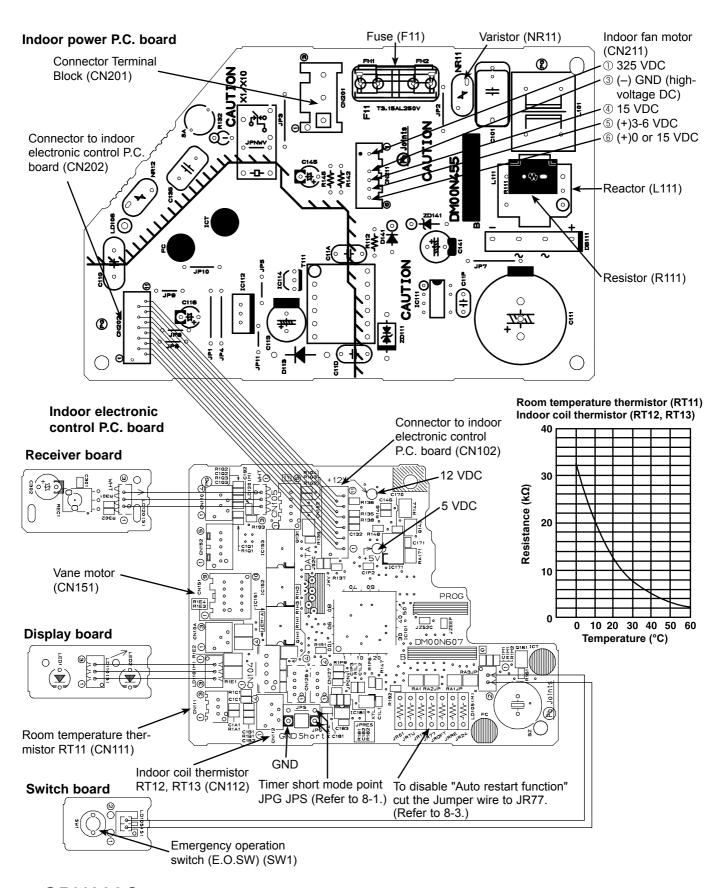
Even if all of the above conditions are fulfilled, the electromagnetic noise may enter, depending on the electric field strength or the installation condition (combination of specific conditions such as antennas or wiring). Check the following before asking for service.

1. Devices affected by the electromagnetic noise

- TV sets, radios (FM/AM broadcast, shortwave)
- 2. Channel, frequency, broadcast station affected by the electromagnetic noise
- 3. Channel, frequency, broadcast station unaffected by the electromagnetic noise
- - indoor/outdoor unit of the air conditioner, indoor/outdoor wiring, earth wire, antennas, wiring from antennas, receiver
- 5. Electric field intensity of the broadcast station affected by the electromagnetic noise
- Presence or absence of amplifier such as booster
- 7. Operation condition of air conditioner when the electromagnetic noise enters in
 - 1) Turn OFF the power supply once, and then turn ON the power supply. In this situation, check for the electromagnetic
 - 2) Within 3 minutes after turning ON the power supply, press OPERATE/STOP (ON/OFF) button on the remote controller for power ON, and check for the electromagnetic noise.
 - 3) After a short time (3 minutes later after turning ON), the outdoor unit starts running. During operation, check for the electromagnetic noise.
 - 4) Press OPERATE/STOP (ON/OFF) button on the remote controller for power OFF, when the outdoor unit stops but the indoor/outdoor communication still runs on. In this situation, check for the electromagnetic noise.

10-7. TEST POINT DIAGRAM AND VOLTAGE

Indoor power P.C. board, Indoor electronic control P.C. board, Receiver board, Display board, Switch board MSZ-SF25VE MSZ-SF35VE MSZ-SF42VE MSZ-SF50VE



DISASSEMBLY INSTRUCTIONS

<"Terminal with locking mechanism" Detaching points>

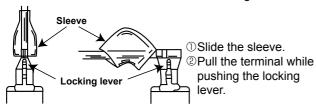
The terminal which has the locking mechanism can be detached as shown below.

There are two types (Refer to (1) and (2)) of the terminal with locking mechanism.

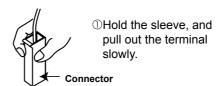
The terminal without locking mechanism can be detached by pulling it out.

Check the shape of the terminal before detaching.

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

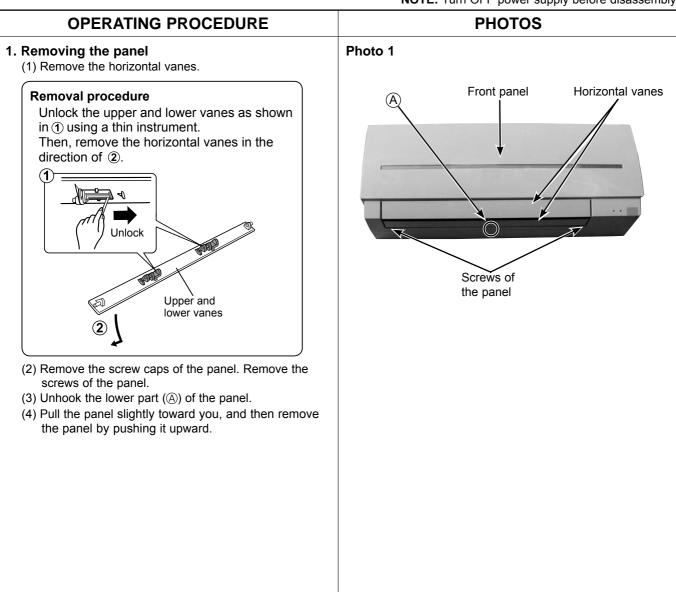


(2) The terminal with this connector has the locking mechanism.



MSZ-SF25VE MSZ-SF35VE MSZ-SF42VE MSZ-SF50VE

NOTE: Turn OFF power supply before disassembly.



OPERATING PROCEDURE

2. Remove the indoor electrical box

- (1) Remove the panel (Refer to 1.) and the corner box right.
- (2) Remove the screw of the V.A. clamp. Remove the V.A. clamp and the indoor/outdoor connecting wire.
- (3) Remove the earth wire connected to the indoor heat exchanger from the electrical box.
- (4) Remove the screw of the electrical cover and remove the electrical cover.
- (5) Disconnect following connectors: <Indoor electronic control P.C. board> CN151 (Vane motor) CN112 (Indoor coil thermistor) <Indoor power P.C. board> CN211 (Indoor fan motor)
- (6) Unhook the catch of the display P.C. board holder from the nozzle.
- (7) Remove the screw fixing the electrical box, then the upper catch of the electrical box, and pull out the electrical box.
 - *When installing the electrical box, pass the lead wire from the fan motor through ® so that it will not be pinched under the electrical box.

Removing the indoor power P.C. board, the switch board, the display board, the receiver board and the indoor electronic control P.C. board

- (1) Remove the panel (Refer to 1.) and the corner box right.
- (2) Remove the screw of the V.A. clamp. Remove the V.A. clamp and the indoor/outdoor connecting wire.
- (3) Remove the indoor electrical box (Refer to 2.).
- (4) Remove the earth wire connected to the electrical box from the indoor power P.C. board.
- (5) Disconnect the following connectors:
 <Indoor electronic power P.C. board>
 CN201 (Terminal block)
 CN202 (To the indoor electronic control P.C. board)
- (6) Remove the indoor power P.C. board.
- (7) Disconnect the following connectors: <Indoor electronic control P.C. board> CN111 (Room temperature thermistor)
- (8) Unhook the catch of the display P.C. board holder from the electrical box (right side).
- (9) Open the rear cover of the display P.C. board holder and remove the switch board, the display board and the receiver board.

Remove the indoor electronic control P.C. board.

PHOTOS

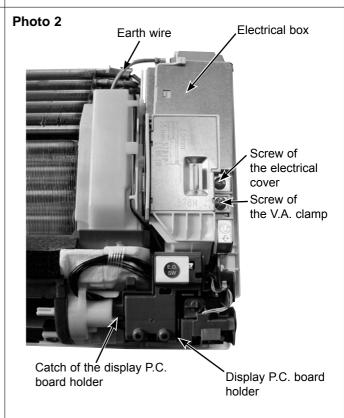
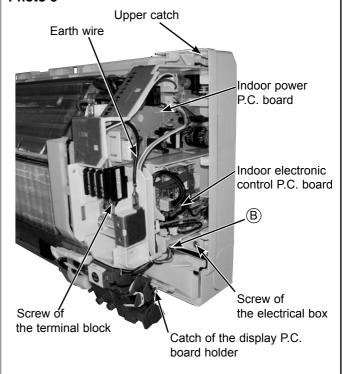


Photo 3



OPERATING PROCEDURE

4. Removing the nozzle assembly

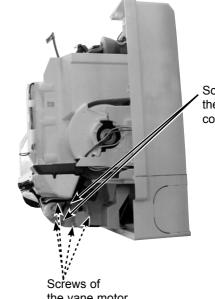
- (1) Remove the panel (Refer to 1.) and the corner box right.
- (2) Remove the indoor/outdoor connecting wire (Refer to 2.).
- (3) Remove the electrical cover (Refer to 2.).
- (4) Disconnect the following connector: <Indoor electronic control P.C. board> CN151 (Vane motor)
- (5) Remove the display P.C. board holder.
- (6) Pull out the drain hose from the nozzle assembly and remove the nozzle assembly.
- (7) Remove the vane motors (Refer to 5.).

5. Removing the horizontal vane motor

- (1) Remove the nozzle assembly (Refer to 4.).
- (2) Remove the screws of the vane motor unit cover, and pull out the vane motor unit
- (3) Remove the screws of the vane motor unit.
- (4) Disconnect the connector from the vane motor.
- (5) Remove the vane motor from the vane motor unit.

PHOTOS

Photo 4



Screws of the vane motor unit cover

the vane motor unit

OPERATING PROCEDURE

6. Removing the indoor fan motor, the indoor coil thermistor and the line flow fan

- (1) Remove the panel (Refer to 1.) and the corner box right.
- (2) Remove the indoor electronic control P.C. board holder, the electrical box and the nozzle assembly.
- (3) Remove the screws fixing the motor bed.
- (4) Release the hooks of the water cut and remove the water cut.
- (5) Loosen the screw fixing the line flow fan.
- (6) Remove the motor bed together with the indoor fan motor and the motor band.
- (7) Release the hooks of the motor band and remove the motor band. Pull out the indoor fan motor.
- (8) Remove the indoor coil thermistor from the heat exchanger.
- * Install the indoor coil thermistor in its former position when assembling it (Photo 5.).
- (9) Remove the screws fixing the left side and the upper right side of the heat exchanger (Photo 7, Photo 5).
- (10) Lift the heat exchanger, and pull out the line flow fan to the lower-left.

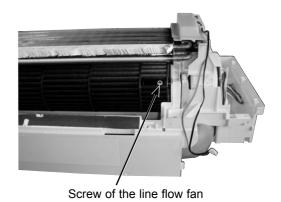
PHOTOS

Photo 5

Water cut

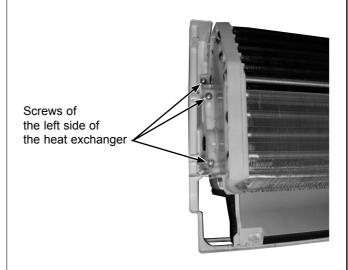
Screw of the upper side of the heat exchanger

Photo 6



the motor bed

Photo 7



Fixing the indoor coil thermisor

* There are 2 forms of parts for fixing the indoor coil thermistor.

Clip shape

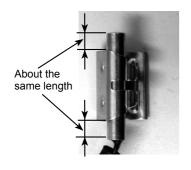


Holder shape



Position and procedure for mounting the clip-shape part

1. Set the indoor coil thermistor in the center of the clip-shape part.



2. Check the (marked) mounting position.



3.Mount the clip-shape part.



NOTE:

- Take care to avoid loss and accidental falling of the clip-shape part inside the unit.
- Mount the clip-shape part on the marked position.
- Do not pull the lead wire when removing the indoor coil thermistor.

MITSUBISHI ELECTRIC CORPORATION

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