

INDOOR UNIT SERVICE MANUAL

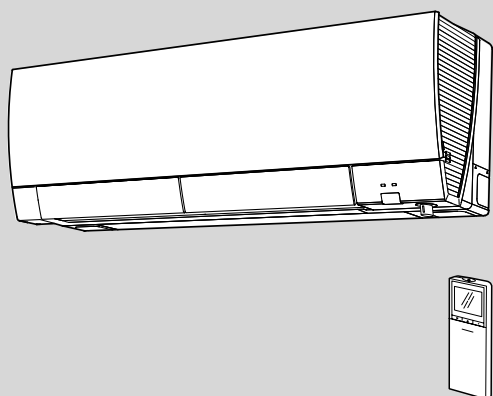
No. OBH623

Models

MSZ-FH25VE - E1

MSZ-FH35VE - E1

Outdoor unit service manual
MUZ-FH-VEHZ Series (OBH625)
MUZ-FH-VE Series
MXZ-D-VA Series



CONTENTS

1. TECHNICAL CHANGES	3
2. PART NAMES AND FUNCTIONS.....	4
3. SPECIFICATION.....	5
4. NOISE CRITERIA CURVE	6
5. OUTLINES AND DIMENSIONS	7
6. WIRING DIAGRAM.....	8
7. REFRIGERANT SYSTEM DIAGRAM	8
8. SERVICE FUNCTIONS	9
9. MICROPROCESSOR CONTROL	11
10. TROUBLESHOOTING.....	19
11. DISASSEMBLY INSTRUCTIONS.....	34

PARTS CATALOG (OBB623)

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.

<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.

<Precautions 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.

MSZ-FH25VE - E1

MSZ-FH35VE - E1

1. New model

These models are compatible with the outdoor units with low standby power control.

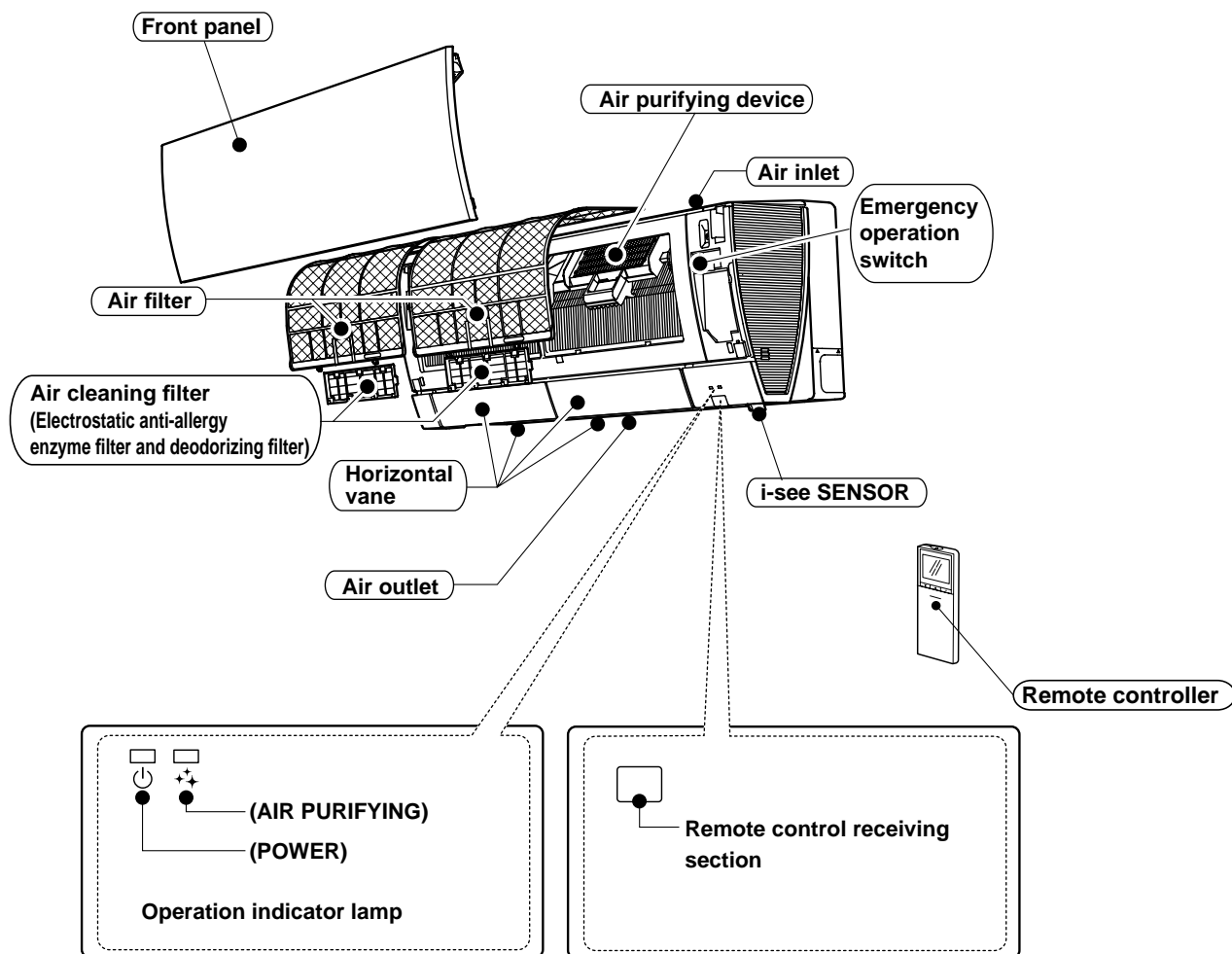
Connecting these models to the MUZ-FH·VE(HZ)-series outdoor units enables the low standby power control. Refer to the technical guide (OBT17) about the low standby power control.

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

2

PART NAMES AND FUNCTIONS

MSZ-FH25VE MSZ-FH35VE



ACCESSORIES

Model	MSZ-FH25VE	MSZ-FH35VE
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
⑤ Battery (AAA) for remote controller		2
⑥ Wireless remote controller		1
⑦ Felt tape (For left or left-rear piping)		1
⑧ Air cleaning filter (Electrostatic anti-allergy enzyme filter)		1
Air cleaning filter (Deodorizing filter)		1
⑨ Air purifying device		1

3

SPECIFICATION

Indoor model			MSZ-FH25VE	MSZ-FH35VE	
Power supply			Single phase 230 V, 50 Hz		
Electrical data	Power input *1	Cooling	W	29	
		Heating		29	
	Running current *1	Cooling	A	0.28	
		Heating		0.28	
Fan motor	Model		RC0J30-MD		
	Current *1	Cooling	A	0.28	
		Heating		0.28	
Dimensions W x H x D			mm 925 x 305(+17) x 234		
Weight			kg 13.5		
Special remarks	Air direction		5		
	Airflow	Cooling	Super High	m³/h	696
			High		516
			Med.		378
			Low		282
			Silent		234
		Heating	Super High	m³/h	792
			High		552
			Med.		384
			Low		282
			Silent		240
	Sound level	Cooling	Super High	dB(A)	42
			High		36
			Med.		29
			Low		23
			Silent		20
		Heating	Super High	dB(A)	44
			High		36
			Med.		29
			Low		24
Silent			20		
Fan speed	Cooling	Super High	rpm	1,220	
		High		970	
		Med.		770	
		Low		630	
		Silent		550	
	Heating	Super High	rpm	1,350	
		High		1,020	
		Med.		780	
		Low		630	
		Silent		560	
Fan speed regulator			5		
Remote controller model			SG13A		

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

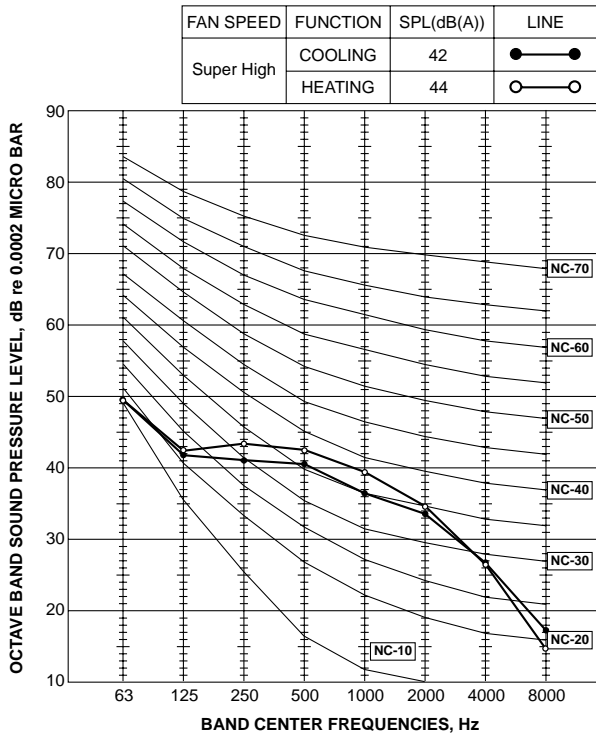
Heating: Indoor Dry-bulb temperature 20°C
 Outdoor Dry-bulb temperature 7°C Wet-bulb temperature 6°C

*1 Measured under rated operating frequency.

Specifications and rating conditions of main electric parts

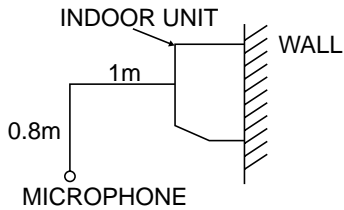
Fuse	(F11)	T3.15AL250V
Horizontal vane motor	(MV1)	12 VDC
Vertical vane motor	(MV2)	12 VDC
i-see SENSOR MOTOR	(MT)	12 VDC
Varistor	(NR11)	S10K300E2K1
Terminal block	(TB)	3P

MSZ-FH25VE MSZ-FH35VE



Test conditions

Cooling: Dry-bulb temperature 27 °C
 Wet-bulb temperature 19 °C
 Heating: Dry-bulb temperature 20 °C

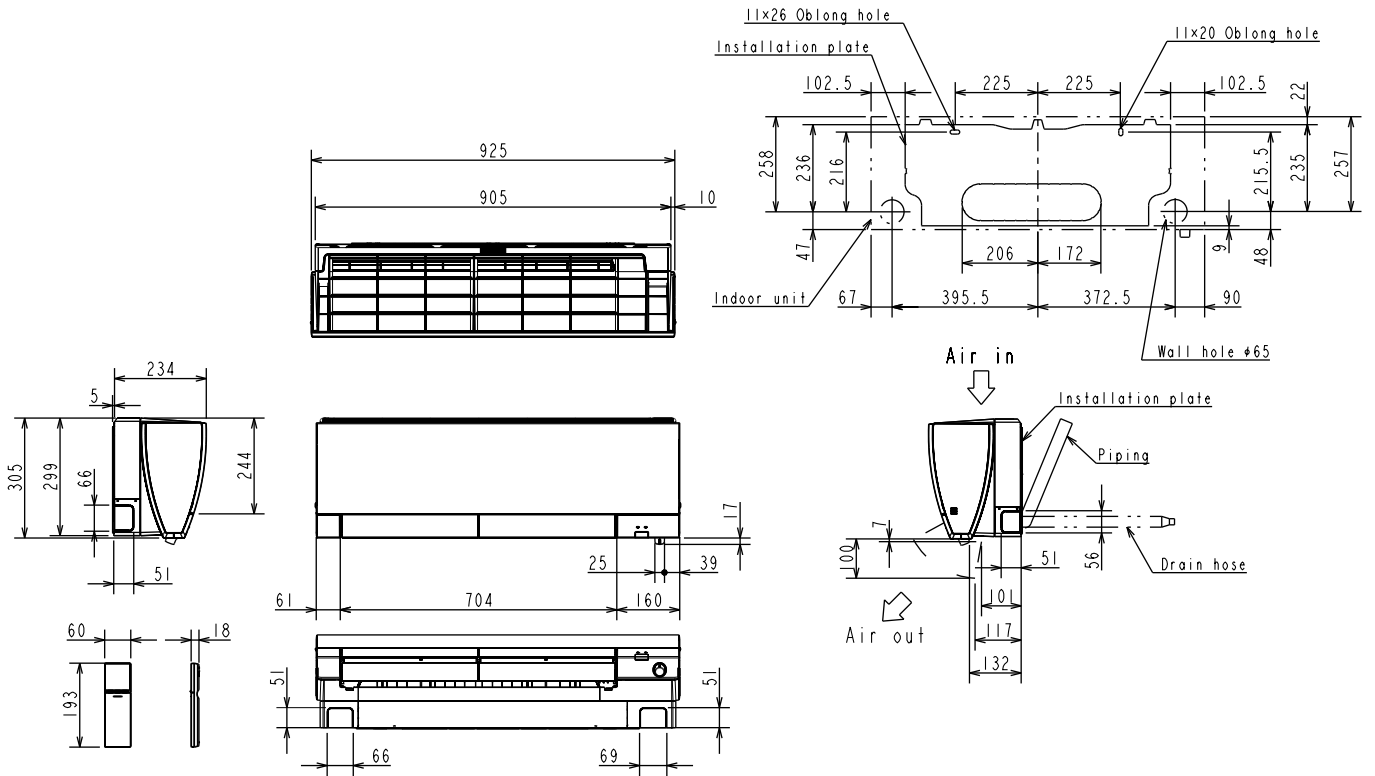


5

OUTLINES AND DIMENSIONS

MSZ-FH25VE MSZ-FH35VE

Unit: mm



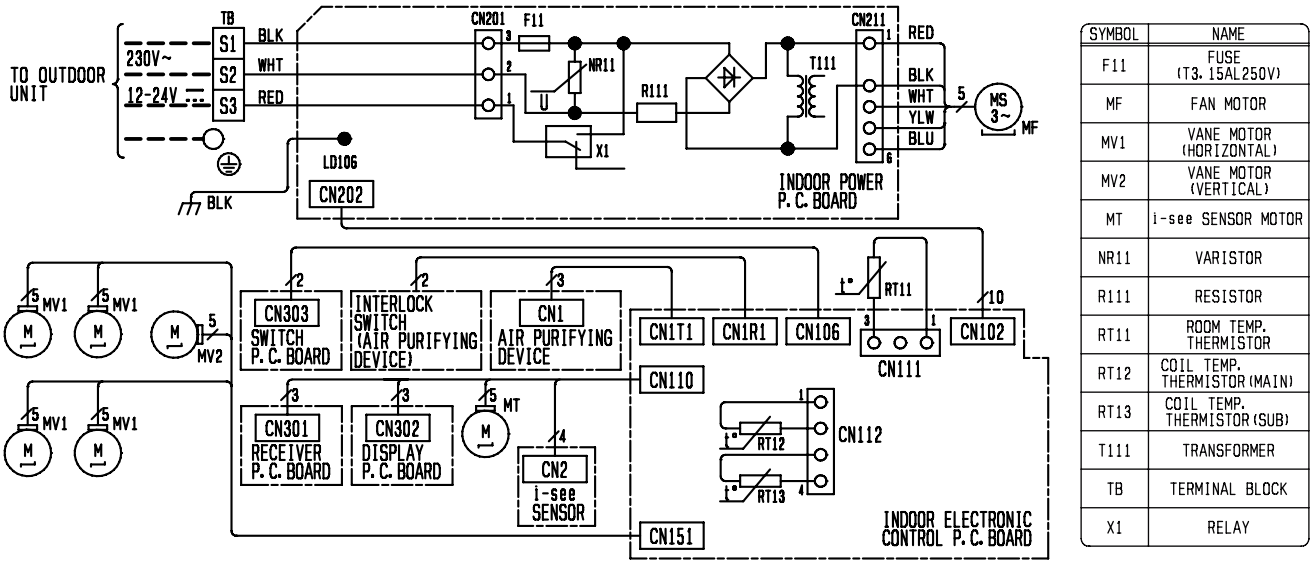
MSZ-FH25VE MSZ-FH35VE

Piping	Insulation	ø37 O.D
	Liquid line	ø6.35 - 0.39 m (Flared connection ø6.35)
	Gas line	ø9.52 - 0.34 m (Flared connection: ø9.52)
Drain hose	Insulation ø28 O.D	Connected part ø16 O.D

6

WIRING DIAGRAM

MSZ-FH25VE MSZ-FH35VE

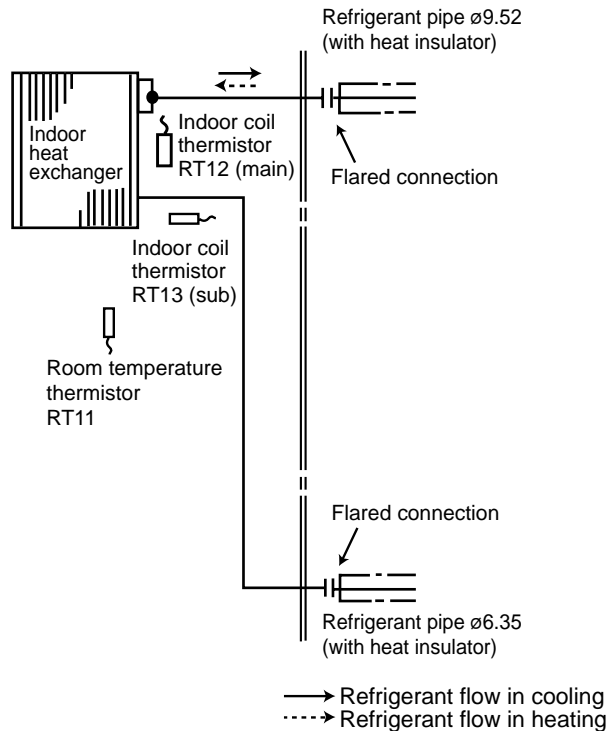


7

REFRIGERANT SYSTEM DIAGRAM

MSZ-FH25VE MSZ-FH35VE

Unit: mm



MSZ-FH25VE MSZ-FH35VE

8-1. TIMER SHORT MODE

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

Set time: 3 minutes → 3 seconds (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. HOW TO SET REMOTE CONTROLLER EXCLUSIVELY FOR A PARTICULAR INDOOR UNIT

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


To operate the indoor units individually with each remote controller, assign a number to each remote controller according to the number of the indoor unit.


This setting can be set only when all the following conditions are met:

- The remote controller is powered OFF.
- Weekly timer is not set.
- Weekly timer is not being edited.

(1) Hold down  button on the remote controller for 2 seconds to enter the pairing mode.

(2) Press  button again and assign a number to each remote controller.

Each press of  button advances the number in the following order: 1 → 2 → 3 → 4.

(3) Press  button to complete the pairing setting.

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

Once they are set, the indoor unit will only receive the signal from the assigned remote controller afterwards.

8-3. SETTING THE INSTALLATION POSITION

Be sure to set the remote controller according to the installed position of the indoor unit.

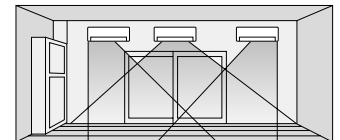
Installation position:

Left: Distance to objects (wall, cabinet, etc.) is less than 50 cm to the left

Center: Distance to objects (wall, cabinet, etc.) is more than 50 cm to the left and right

Right: Distance to objects (wall, cabinet, etc.) is less than 50 cm to the right


(Left) (Center) (Right)







The installation position can be set only when all the following conditions are met:

- The remote controller is powered OFF.
- Weekly timer is not set.
- Weekly timer is not being edited.

(1) Hold down  button on the remote controller for 2 seconds to enter the position setting mode.

(2) Select the target installation position by pressing  button. (Each press of the  button displays the positions in order: center → right → left.)

(3) Press  button to complete the position setting.

Installation position	Left	Center	Right
Remote controller display			

8-4. AUTO RESTART FUNCTION

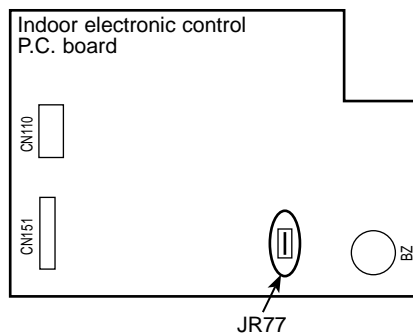
When the indoor unit is controlled with the remote controller, the operation mode, the set temperature, and the fan speed are memorized by the indoor electronic control P.C. board. "AUTO RESTART FUNCTION" automatically starts operation in the same mode just before the shutoff of the main power.

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.)

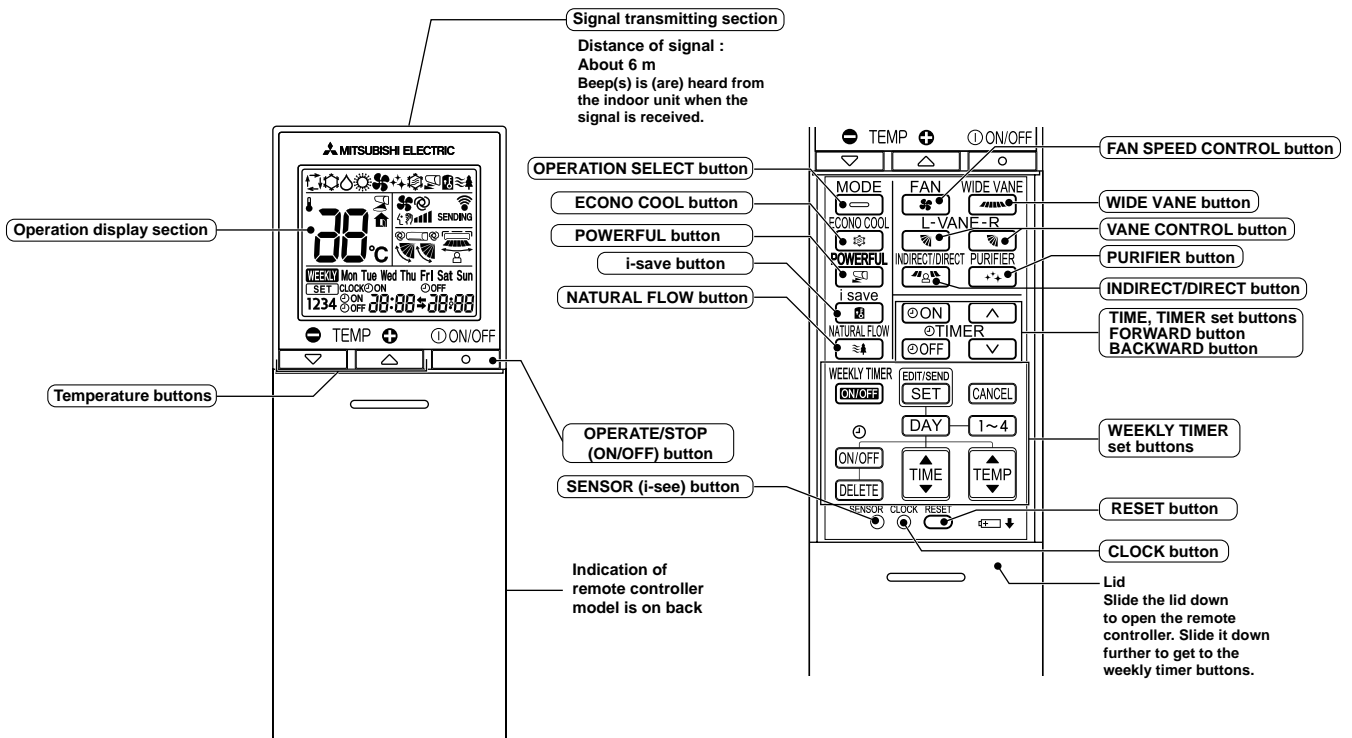


NOTE:

- 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.

MSZ-FH25VE MSZ-FH35VE

WIRELESS REMOTE CONTROLLER








NOTE: Last setting will be stored after the unit is turned OFF with the remote controller. Indoor unit receive 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	
 	Standby mode (Only during multi system operation)	—	 Lighted  Blinking  Not lighted

9-1. COOL (❄️) 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 \ominus or \oplus 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 is as same as COOL mode. (9-1.1.)

2. Low outside temperature operation

Low outside temperature operation is as same as COOL mode. (9-1.2.)

3. Indoor fan speed control

Indoor fan speed control is as same as 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 \ominus or \oplus 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.

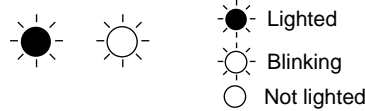
Refer to **NOTE 2 "FOR MULTI SYSTEM AIR CONDITIONER"**.

NOTE 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.

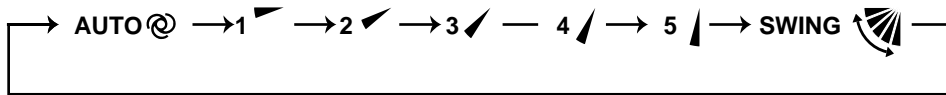
9-6. AUTO VANE OPERATION

1. Horizontal vane

(1) Vane motor drive

These models are equipped with a stepping motors for the horizontal vanes. 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.



NOTE: The right and left horizontal vanes set to the same level may not align perfectly.

(3) Positioning

To confirm the standard position, the vane move 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 3 for dew prevention.

(7) SWING (🌀) 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 (🌡️) operation (ECONOMical operation)

When ECONO COOL button is pressed in COOL mode, set temperature is automatically set 2°C higher.

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, VANE CONTROL, POWERFUL or NATURAL FLOW button.

(10) POWERFUL (🔥) operation

The air conditioner automatically adjusts the fan speed and the set temperature, and operates the POWERFUL mode.

The POWERFUL mode is cancelled automatically 15 minutes after operation starts, or when POWERFUL button is pressed once again within 15 minutes after operation starts. The operation mode returns to the mode prior to POWERFUL operation. POWERFUL mode also is cancelled, when the OPERATE/STOP (ON/OFF), ECONO COOL, FAN SPEED CONTROL, NATURAL FLOW or i-save button is pressed within 15 minutes after operation starts, or operation mode is changed.

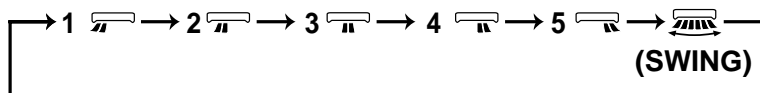
2. Vertical vane

(1) Vane motor drive

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

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

(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) OPERATE/STOP (ON/OFF) button is pressed (POWER ON).

(4) SWING (🌀) MODE

By selecting SWING mode with WIDE VANE CONTROL button, the vertical vane swings horizontally. The remote controller displays "🌀". Swing mode is cancelled when WIDE MODE CONTROL button is pressed once again.

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 button.

How to set the current time

- (a) Press the CLOCK button.
 (b) Press the TIME SET buttons ($\square\blacktriangle$ and $\square\blacktriangledown$) to set the current time.
 • Each time FORWARD button ($\square\blacktriangle$) is pressed, the set time increases by 1 minute, and each time BACKWARD button ($\square\blacktriangledown$) 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 ($\square\blacktriangle$ and $\square\blacktriangledown$).*

OFF timer setting

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

2. To release the timer

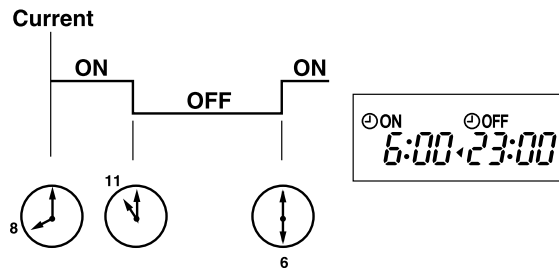
- To release ON timer, press ON TIMER button (ON).
 To release OFF timer, press OFF TIMER button (OFF).
 TIMER is cancelled and the display of set time disappears.

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.

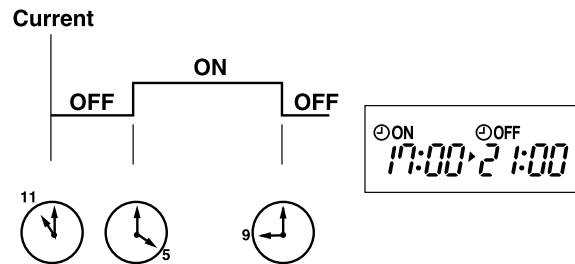
(Example 1) The current time is 8:00 PM.

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



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

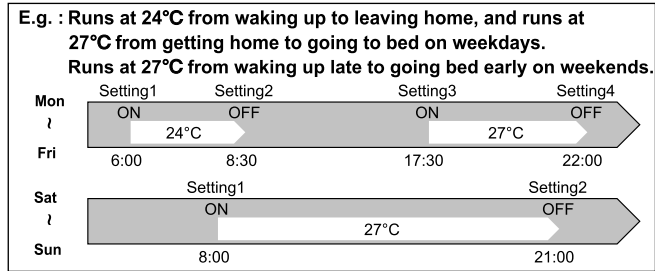
The unit turns on at 5:00 PM, and off at 9:00 PM.



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.

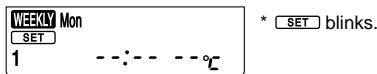


NOTE:
The simple ON/OFF timer setting is available while the weekly timer is on. In this case, the ON/OFF timer has priority over the weekly timer; the weekly timer operation will start again after the simple ON/OFF timer is complete.

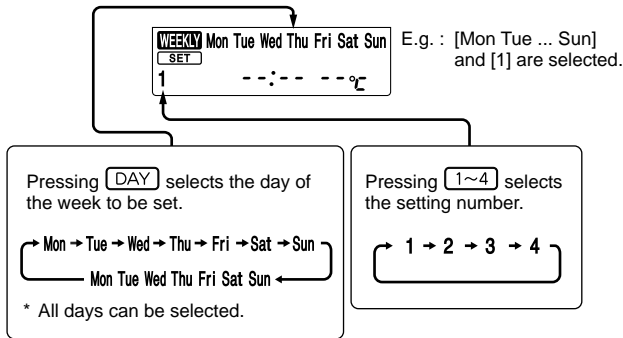
1. How to set the weekly timer

* Make sure that the current time and day are set correctly.

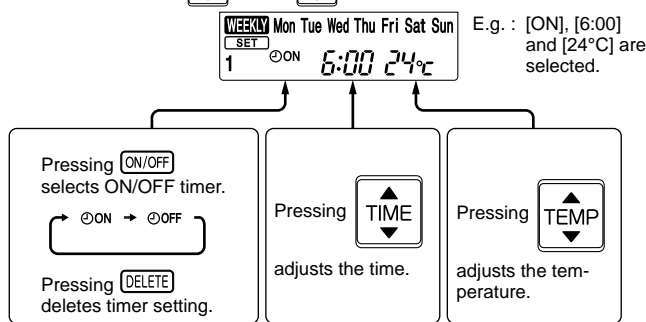
(1) Press **EDIT/SEND SET** button to enter the weekly timer setting mode.



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



(3) Press **ON/OFF**, **TIME**, and **TEMP** 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 **EDIT/SEND SET** button to complete and transmit the weekly timer setting.





NOTE:

- Press **EDIT/SEND 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, **EDIT/SEND SET** button does not have to be pressed per each setting. Press **EDIT/SEND SET** button once after all the settings are complete. All the weekly timer settings will be saved.
- Press **EDIT/SEND 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  button to turn the weekly timer ON. ( lights.)


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


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



NOTE:


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

2. Checking weekly timer setting


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

* blinks.

(2) Press  or  buttons to view the setting of the particular day or number.



(3) Press  button to exit the weekly timer setting.

NOTE:

When all days of the week are selected to view the settings and a different setting is included among them,  will be displayed.


9-9. i-see CONTROL () MODE

In the i-see control mode, the room temperature is controlled based on the sensible temperature.

- (1) Press SENSOR button with a thin instrument during COOL, DRY, HEAT and AUTO mode to activate i-see control mode ().
The default setting is “active”.
- (2) Press SENSOR button again to activate ABSENCE DETECTION ().
- (3) Press SENSOR button again to release i-see control mode.

ABSENCE DETECTION ()

This function automatically changes the operation to energy-saving operation when nobody is in the room.


- (1) To activate this function, press SENSOR button until  appears on the operation display of the remote controller during the i-see control mode.
- (2) Press SENSOR button again to release ABSENCE DETECTION.


9-10. INDIRECT/DIRECT mode

The INDIRECT/DIRECT mode offers finely-tuned operation by locating where an occupant is in the room.

- (1) Press INDIRECT/DIRECT button during COOL, DRY, HEAT or AUTO mode to activate INDIRECT/DIRECT mode.
This mode is only available when the i-see control mode is effective.
- (2) Each press of INDIRECT/DIRECT button changes INDIRECT/DIRECT in the following order:



 (INDIRECT): An occupant will be less exposed to direct airflow.

 (DIRECT) : Mainly the vicinity of an occupant will be air-conditioned.

NOTE:

- Horizontal and vertical airflow directions will be automatically selected.
- If you still feel uncomfortable with the air direction determined by the INDIRECT mode, adjust the air direction manually.
- Cancelling the i-see control mode automatically cancels the INDIRECT/DIRECT mode.
- INDIRECT/DIRECT mode is also cancelled when the VANE or WIDE VANE buttons is pressed.
- Do not touch the i-see SENSOR. This may cause malfunction of the i-see SENSOR.

9-11. NATURAL FLOW () OPERATION

In NATURAL FLOW operation, air flow will become more like natural wind. An occupant will not be directly exposed to the air flow and feel more comfortable.

- (1) Press NATURAL FLOW button during COOL or FAN mode to start NATURAL FLOW operation.
- (2) Press NATURAL FLOW button again to cancel NATURAL FLOW operation.
 - NATURAL FLOW operation is also cancelled when the POWERFUL or ECONO COOL button is pressed.

NOTE: As the fan speed changes constantly during NATURAL FLOW operation, the sound of air flow, wind velocity and air flow temperature also change. This is not a malfunction.

9-12. AIR PURIFYING (✚) OPERATION

In the AIR PURIFYING operation, the indoor unit built-in device reduces airborne fungi, viruses, mold, and allergens.

- (1) Press PURIFIER button to start AIR PURIFYING operation.
 - AIR PURIFYING lamp turns on. (Display section)
- (2) Press PURIFIER button again to cancel AIR PURIFYING operation.
 - AIR PURIFYING lamp turns off. (Display section)

NOTE:

- Never touch the air purifying device during operation. Although the air purifying device is safety-conscious design, touching this device could be the cause of trouble as this device discharge high voltage electricity.
- A "hissing" sound may be heard during the air purifying operation. This sound is produced when plasma is being discharged. This is not a malfunction.
- AIR PURIFYING lamp does not turn on if the front panel is not closed completely.

9-13. i-save (i) 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)

2. How to cancel operation

- Press i-save button again.
- i-save operation can also be cancelled by pressing POWERFUL button or OPERATION SELECT button to change the operation mode.

The same setting is select from the next time by simply pressing i-save button.

9-14. 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.

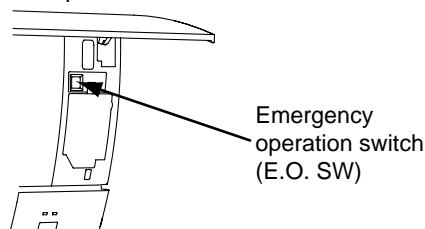
The fan speed shifts to Med.

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 receive any signal from the remote controller. In case of latter, normal operation will start.

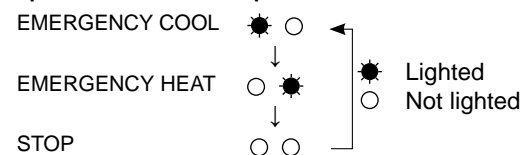
NOTE: Do not press EMERGENCY OPERATION switch during normal operation.



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



9-15. 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.

MSZ-FH25VE MSZ-FH35VE

10-1. CAUTIONS ON TROUBLESHOOTING

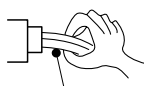
1. Before troubleshooting, check the following

- 1) Check the power supply voltage.
- 2) Check the indoor/outdoor connecting wire for miswiring.

2. Take care of the following during servicing

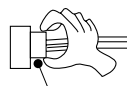
- 1) Before servicing the air conditioner, be sure to turn OFF the main unit first with the remote controller, and then after confirming the horizontal vane is closed, turn OFF the breaker and/or disconnect the power plug.
- 2) Be sure to turn OFF the power supply before removing the front panel, the cabinet, the top panel, and the 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.

<Incorrect>



Lead wiring

<Correct>



Housing point

3. Troubleshooting procedure

- 1) First, 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.

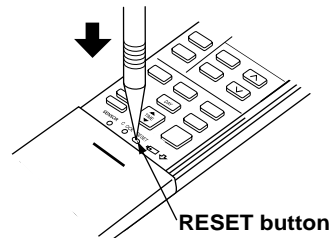
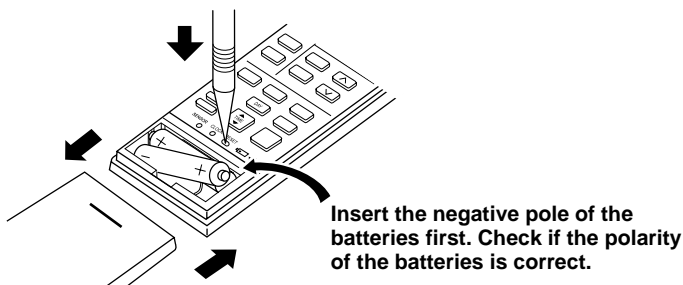
4. How to replace batteries

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.

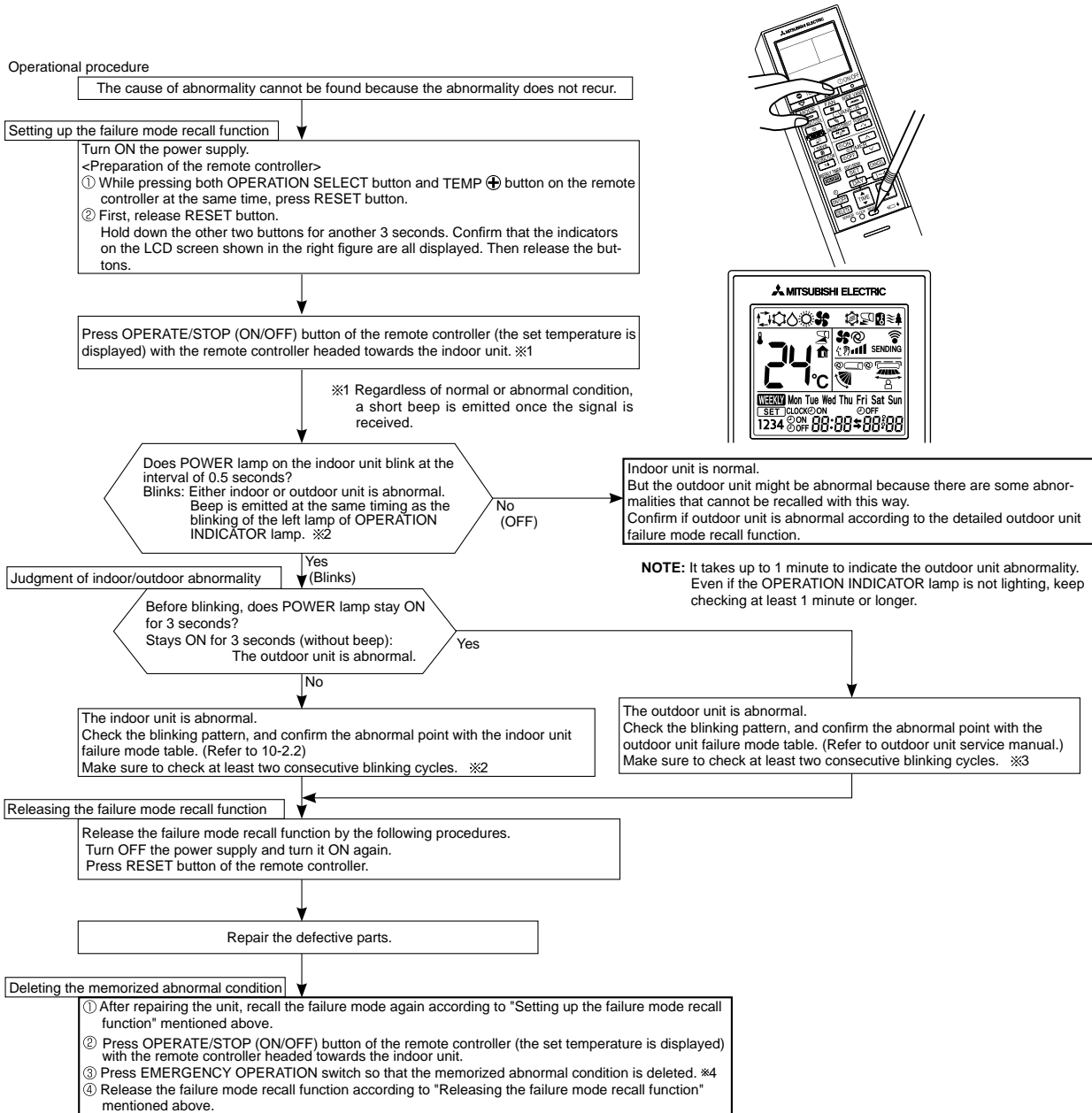
10-2. FAILURE MODE RECALL FUNCTION

Outline of the function

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

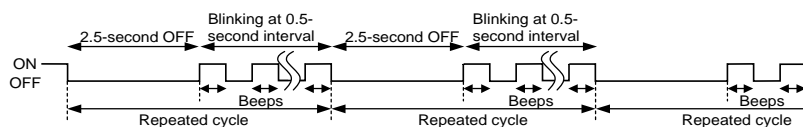
Even though LED indication listed on the troubleshooting check table (10-4.) disappears, the memorized failure details can be recalled.

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

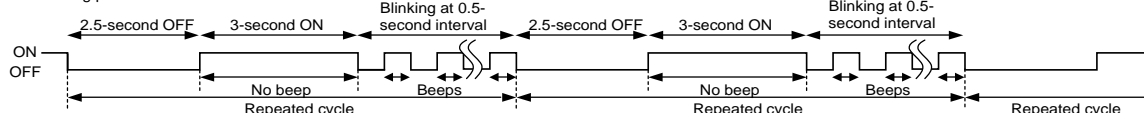


NOTE: 1. Make sure to release the failure mode recall function once it is set up, otherwise the unit cannot operate properly.
 2. If the abnormal condition is not deleted from the memory, the last abnormal condition is kept memorized.

※2. Blinking pattern when the indoor unit is abnormal:



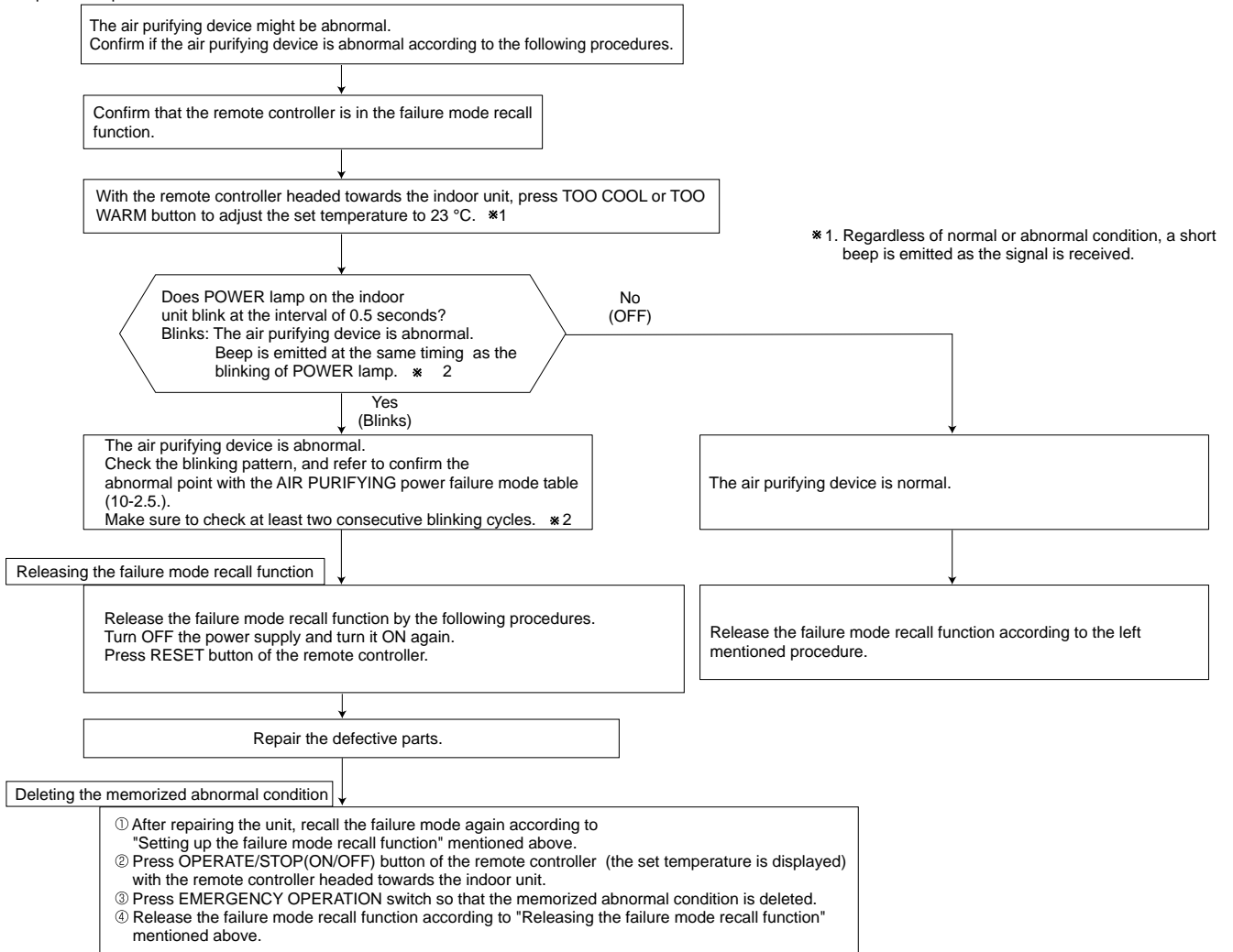
※3. Blinking pattern when the outdoor unit is abnormal:



※4 The information regarding whether the connected outdoor unit is a low-standby-power model or a non-low-standby-power model will also be initialized. (Default= compatible with a low-standby-power model)

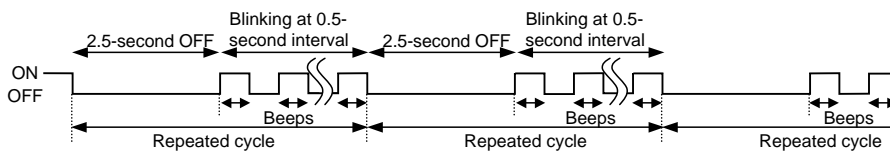
2. Flow chart of AIR PURIFYING power failure mode recall function

Operational procedure



Note1. Make sure to release the failure mode recall function once 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.

*2. Blinking pattern when the air purifying device is abnormal:



3. AIR PURIFYING power operation check

AIR PURIFYING power goes ON when PURIFIER button on the remote controller is pressed with any set temperature displayed during failure mode recall function.
Check the operation display section of the remote controller to confirm that AIR PURIFYING power is activated.
While AIR PURIFYING lamp stays OFF, it means normal.
Flashing AIR PURIFYING lamp means abnormal, the AIR PURIFYING power is not conducted.

AIR PURIFYING lamp	Remedy
Continuously blinking	Follow "Check of AIR PURIFYING power" to identify the error. (Refer to 10-6.㉔.)
2-time flash	AIR PURIFYING power control circuit on the indoor electronic control P.C. board is out of order. (Refer to 10-6.㉔.)

NOTE: Perform the above mentioned check with the front panel closed. The interlock switch (Air purifying device) works by opening front panel and the AIR PURIFYING power is cut.



4. Indoor unit failure mode table

POWER 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 during the 12 seconds the indoor fan operation.	Refer to 10-6.Ⓐ "Check of indoor fan motor".
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.).

5. AIR PURIFYING power failure mode table

POWER lamp	Abnormal point (Failure mode)	Condition	Remedy
1-time flash	AIR PURIFYING power control	When AIR PURIFYING power cannot be turned OFF even if the AIR PURIFYING operation is turned OFF with the remote controller.	Refer to 10-6.Ⓒ "Check of AIR PURIFYING power".
2-time flash	Electrode (Spark discharge)	When the voltage between CN1T1 ③ (+) and ② (GND) on the electronic P.C. board falls below 1.3V (spark discharge judgment voltage).	
3-time flash	Electrode (Abnormal electric discharge error 1)	When the voltage between CN1T1 ③ (+) and ② (GND) on the electronic P.C. board falls by 1.2V below the normal voltage value (2.5V).	
4-time flash	Electrode (Abnormal electric discharge error 2)	When the voltage between CN1T1 ③ (+) and ② (GND) on the electronic P.C. board falls significantly. (0.4V / 0.5ms)	
5-time flash	AIR PURIFYING power	When the voltage between CN1T1 ③ (+) and ② (GND) on the electronic P.C. board rises above 3V.	

NOTE1 : Blinking patterns of this mode differ from the ones of TROUBLESHOOTING CHECK TABLE (10-4.).

NOTE2 : As soon as an abnormality is detected, AIR PURIFYING power goes OFF, therefore measuring instrument which records the voltage wave is required in order to perform the above mentioned voltage measurement.

6. Operation check on i-see SENSOR

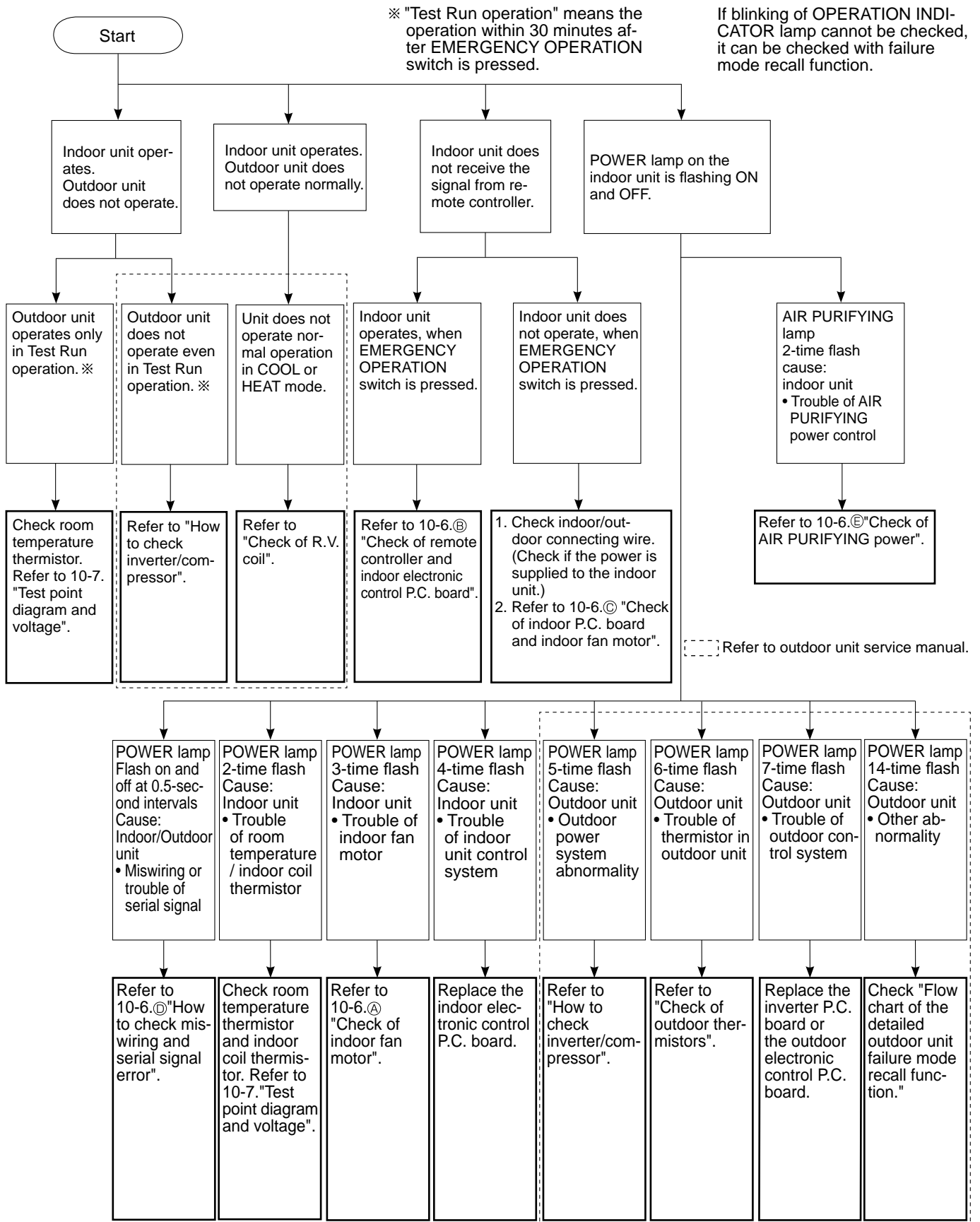
While recalling the failure details, set the temperature to 19°C or 19.5°C to perform the simple check on the i-see SENSOR. Place your hand over the i-see SENSOR, and the buzzer will beep at 1 second intervals. (Normal detection temperature range is 34 to 39°C.)

If the buzzer does not beep, check for disconnection of the connectors.

Set the temperature to 23°C to exit the simple check mode on the i-see SENSOR.

POWER lamp	Abnormal point (Failure mode)	Condition	Remedy
6-time flash	i-see SENSOR	Poor contact in i-see SENSOR wiring Failure in loading corrected data of i-see SENSOR	Check for disconnection of the connectors.

10-3. INSTRUCTION OF TROUBLESHOOTING



OPERATION INDICATOR ● Lighted
 (POWER) (AIR PURIFYING) ◐ Blinking
 ○ Not lighted

No.	Abnormal point	Operation indicator lamp	Symptom	Condition	Remedy
1	MXZ type Operation mode setting	● ○ ○ ○ ○ ○ ● ○ ○ ○ ○ ○ ● 2.5-second OFF ● POWER lamp is lighted.	Outdoor unit operates but indoor unit does not operate.	The operation mode of the each indoor unit is differently set to COOL (includes DRY, FAN) and HEAT at the same time, the operation mode of the indoor unit that has operated at first has the priority.	<ul style="list-style-type: none"> Unify the operation mode. Refer to outdoor unit service manual.

OPERATION INDICATOR ● Lighted
 (POWER) (AIR PURIFYING) ◐ Blinking
 ○ Not lighted

No.	Abnormal point	Operation indicator lamp	Symptom	Condition	Remedy
1	AIR PURIFYING power control	● ○ ● ○ ○ ○ ○ ○ ● ○ ● 2.5-second OFF	Indoor unit and outdoor unit do not operate.	When AIR PURIFYING power cannot be turned OFF even if the AIR PURIFYING operation is turned OFF by remote controller.	<ul style="list-style-type: none"> Refer to 10-6.㉔ "Check of AIR PURIFYING power".

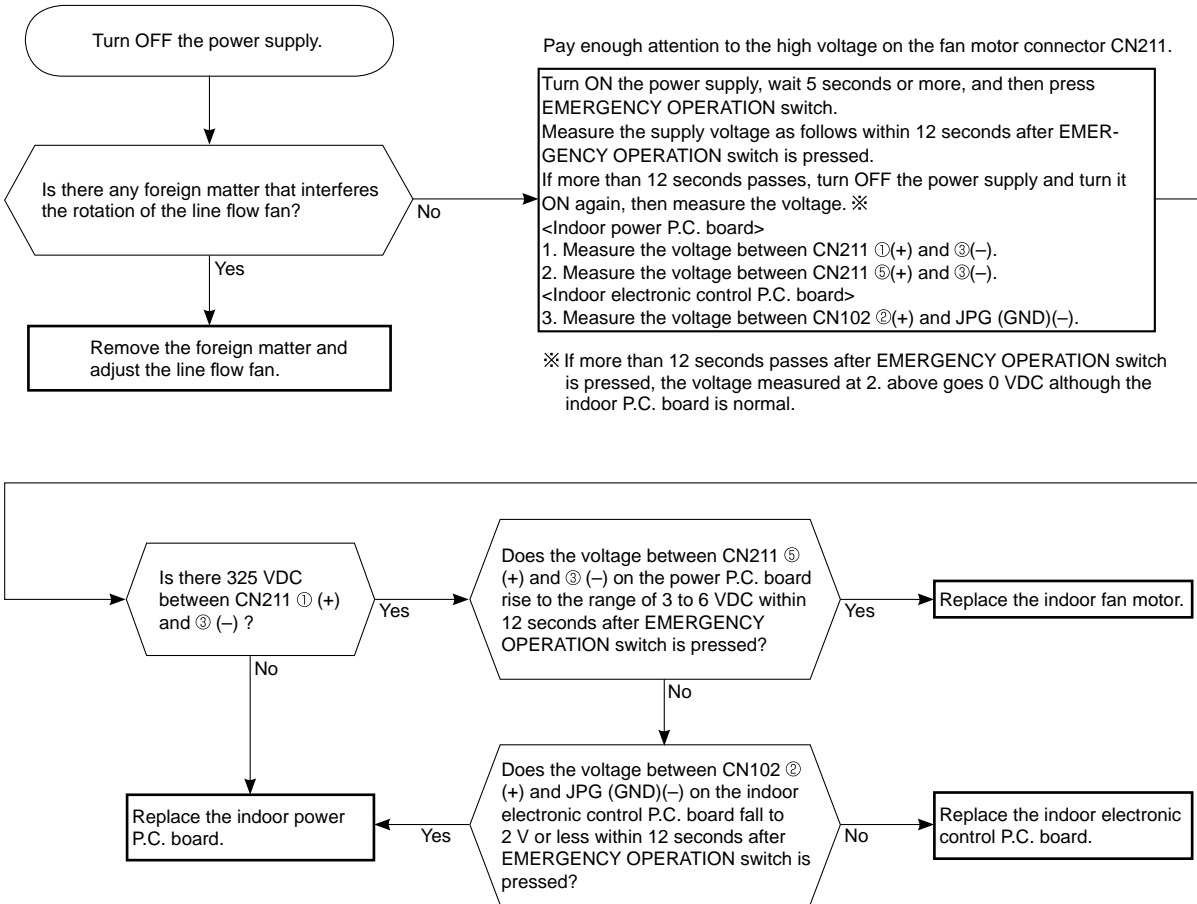
10-5. TROUBLE CRITERION OF MAIN PARTS MSZ-FH25VE MSZ-FH35VE

Part name	Check method and criterion	Figure				
Room temperature thermistor (RT11) Indoor coil thermistor (RT12, RT13)	Measure the resistance with a tester. Refer to 10-7. "Test point diagram and voltage", "Indoor electronic control P.C. board", for the chart of thermistor.					
Indoor fan motor (MF)	Check 10-6.㉑ "Check of indoor fan motor".					
Vane motor (MV1) (HORIZONTAL)	Measure the resistance between the terminals with a tester. (Temperature: 10 - 30°C) <table border="1"> <tr> <td>Color of the lead wire</td> <td>Normal</td> </tr> <tr> <td>RED - SKY</td> <td>262 - 328 Ω</td> </tr> </table>	Color of the lead wire	Normal	RED - SKY	262 - 328 Ω	
Color of the lead wire	Normal					
RED - SKY	262 - 328 Ω					
Vane motor (MV2) (VERTICAL)	Measure the resistance between the terminals with a tester. (Temperature: 10 - 30°C) <table border="1"> <tr> <td>Color of the lead wire</td> <td>Normal</td> </tr> <tr> <td>RED - SKY</td> <td>219 - 273 Ω</td> </tr> </table>	Color of the lead wire	Normal	RED - SKY	219 - 273 Ω	
Color of the lead wire	Normal					
RED - SKY	219 - 273 Ω					
i-see SENSOR MOTOR (MT)	Measure the resistance between the terminals with a tester. (Temperature: 10 - 30°C) <table border="1"> <tr> <td>Color of the lead wire</td> <td>Normal</td> </tr> <tr> <td>RED - BLK</td> <td>262 - 328 Ω</td> </tr> </table>	Color of the lead wire	Normal	RED - BLK	262 - 328 Ω	
Color of the lead wire	Normal					
RED - BLK	262 - 328 Ω					
AIR PURIFYING power	Check 10-6.㉔.					

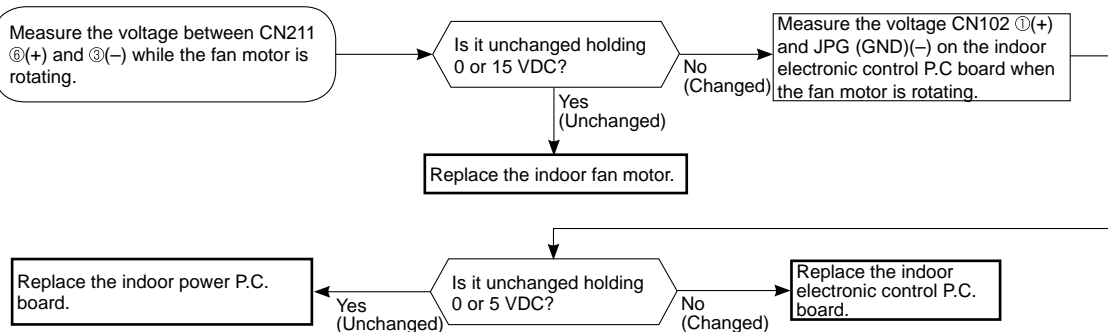
10-6. TROUBLESHOOTING FLOW

A Check of indoor fan motor

The indoor fan motor error has occurred, and the indoor fan does not operate.

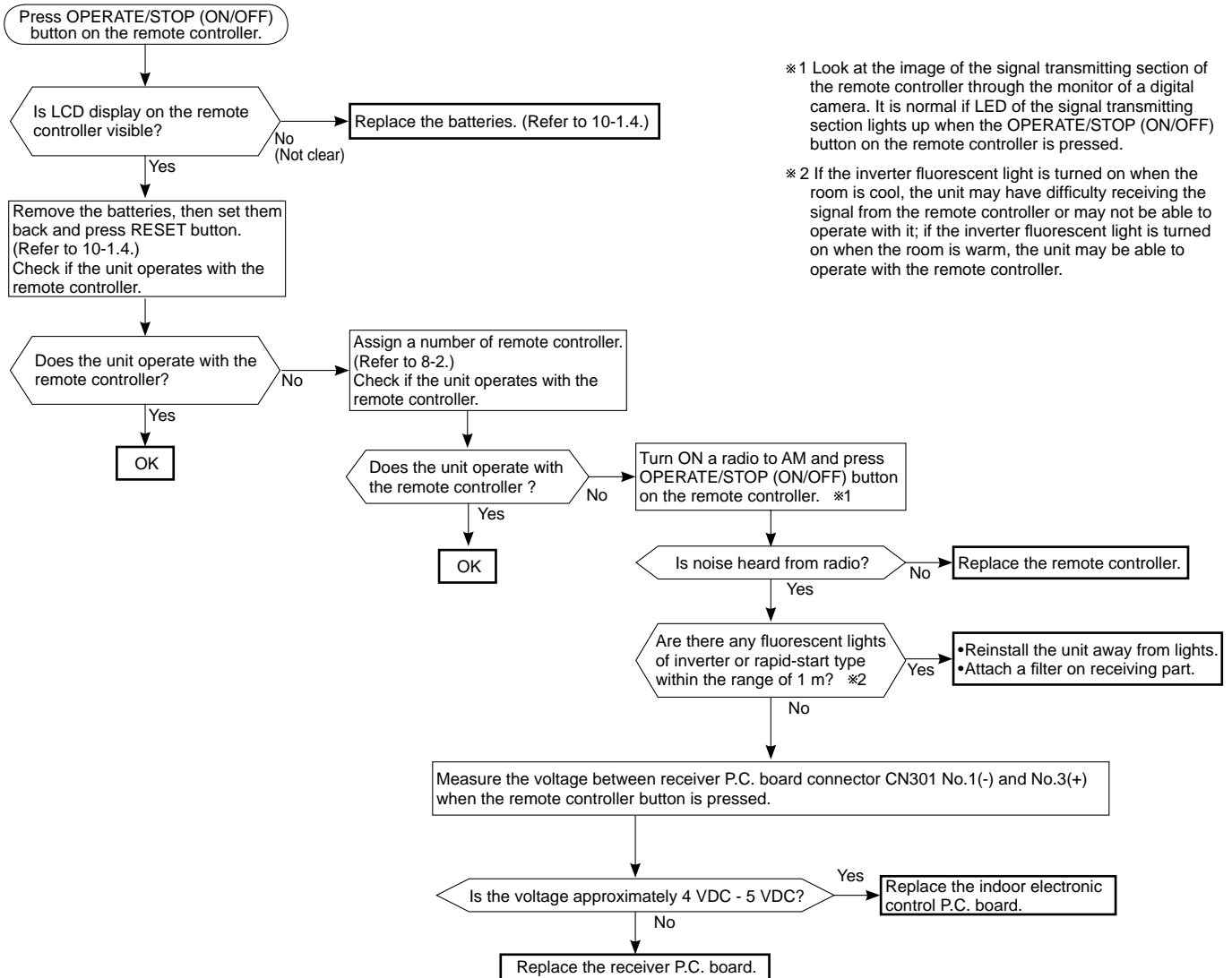


The indoor fan motor error has occurred, and the indoor fan repeats "12-second ON and 30-second OFF" 3 times, and then stops.



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

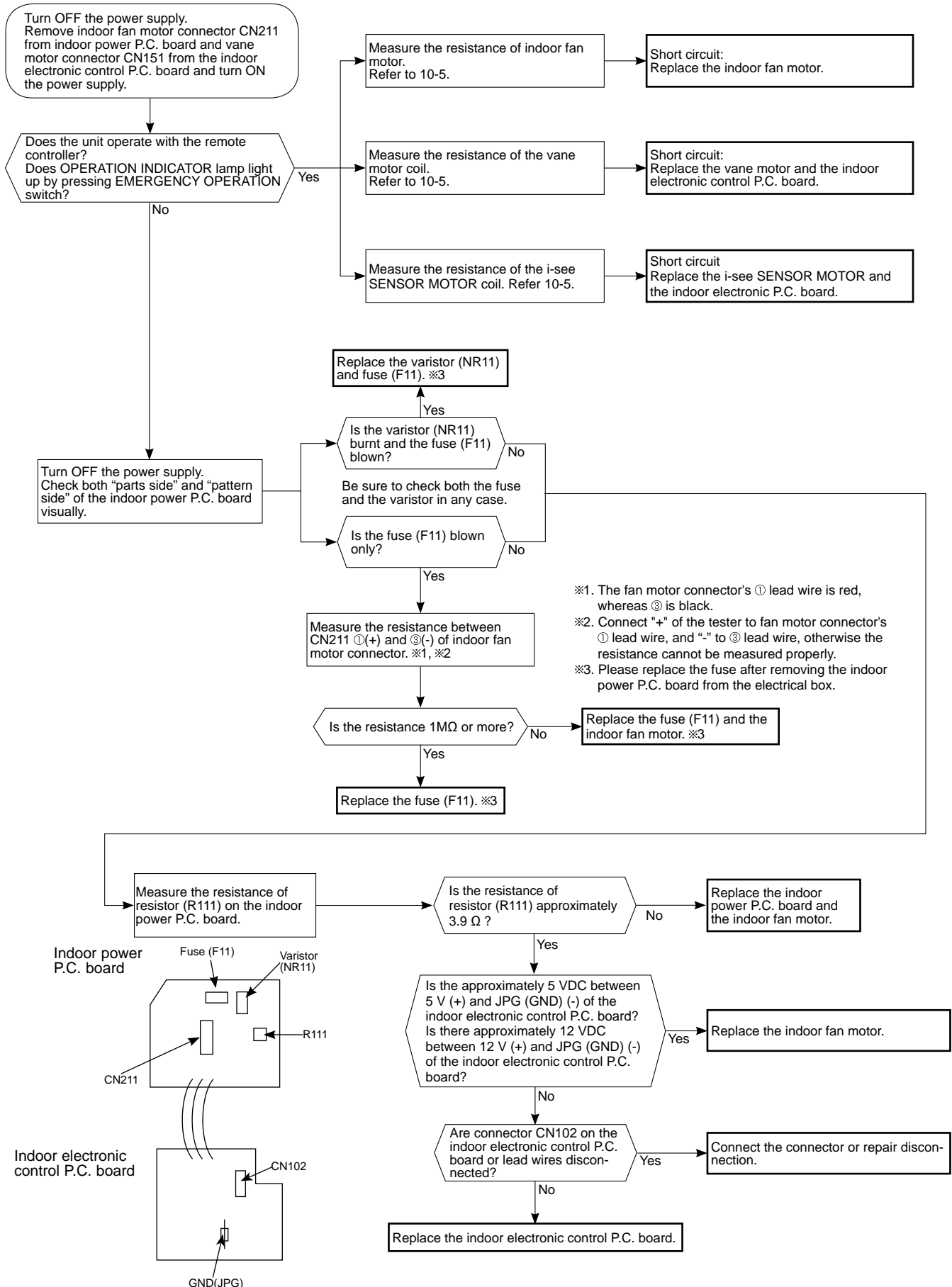
※ Check if the remote controller is exclusive for this air conditioner.



※ 1 Look at the image of the signal transmitting section of the remote controller through the monitor of a digital camera. It is normal if LED of the signal transmitting section lights up when the OPERATE/STOP (ON/OFF) button on the remote controller is pressed.

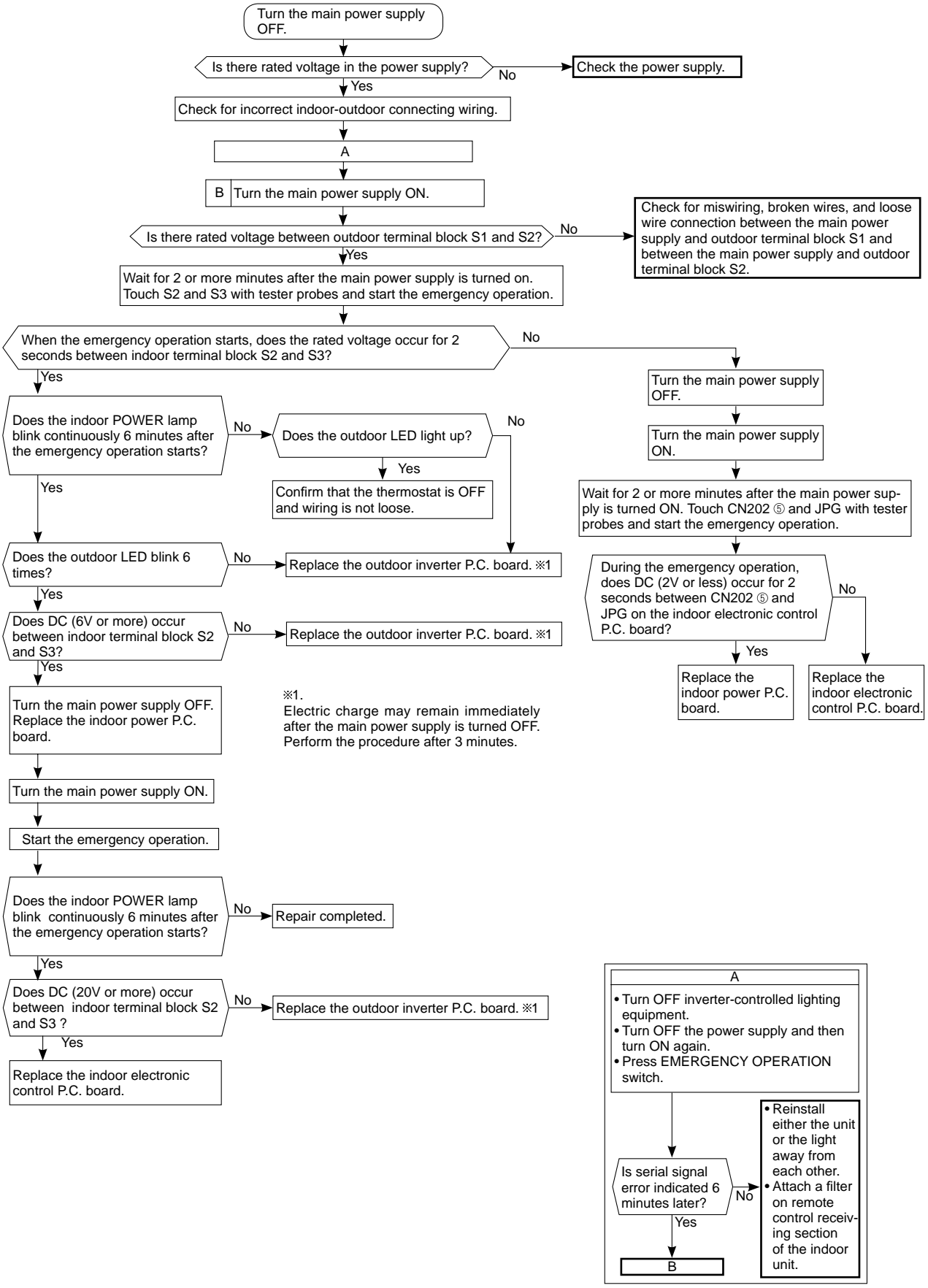
※ 2 If the inverter fluorescent light is turned on when the room is cool, the unit may have difficulty receiving the signal from the remote controller or may not be able to operate with it; if the inverter fluorescent light is turned on when the room is warm, the unit may be able to operate with the remote controller.

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



D How to check miswiring and serial signal error

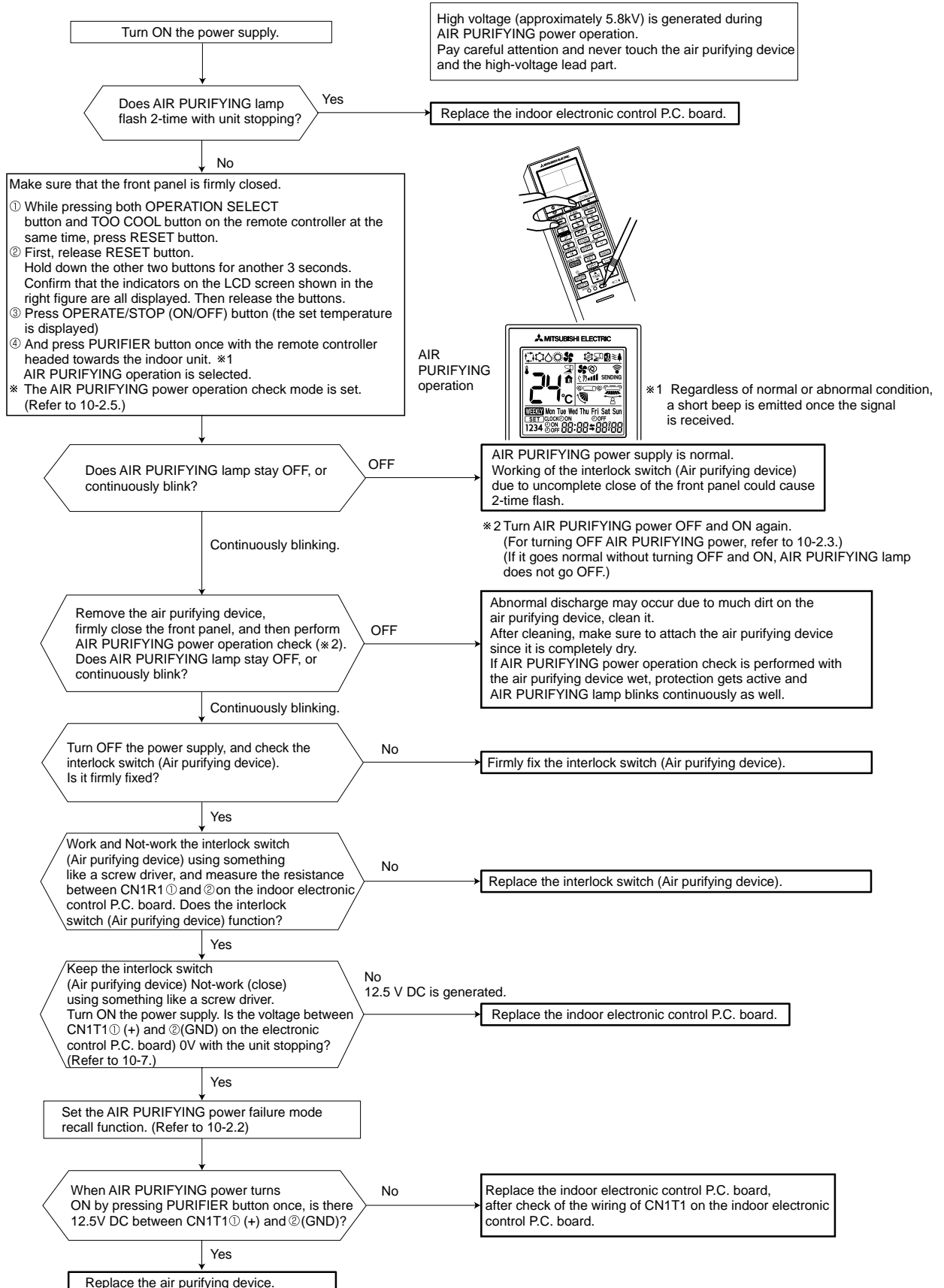
MUZ Type



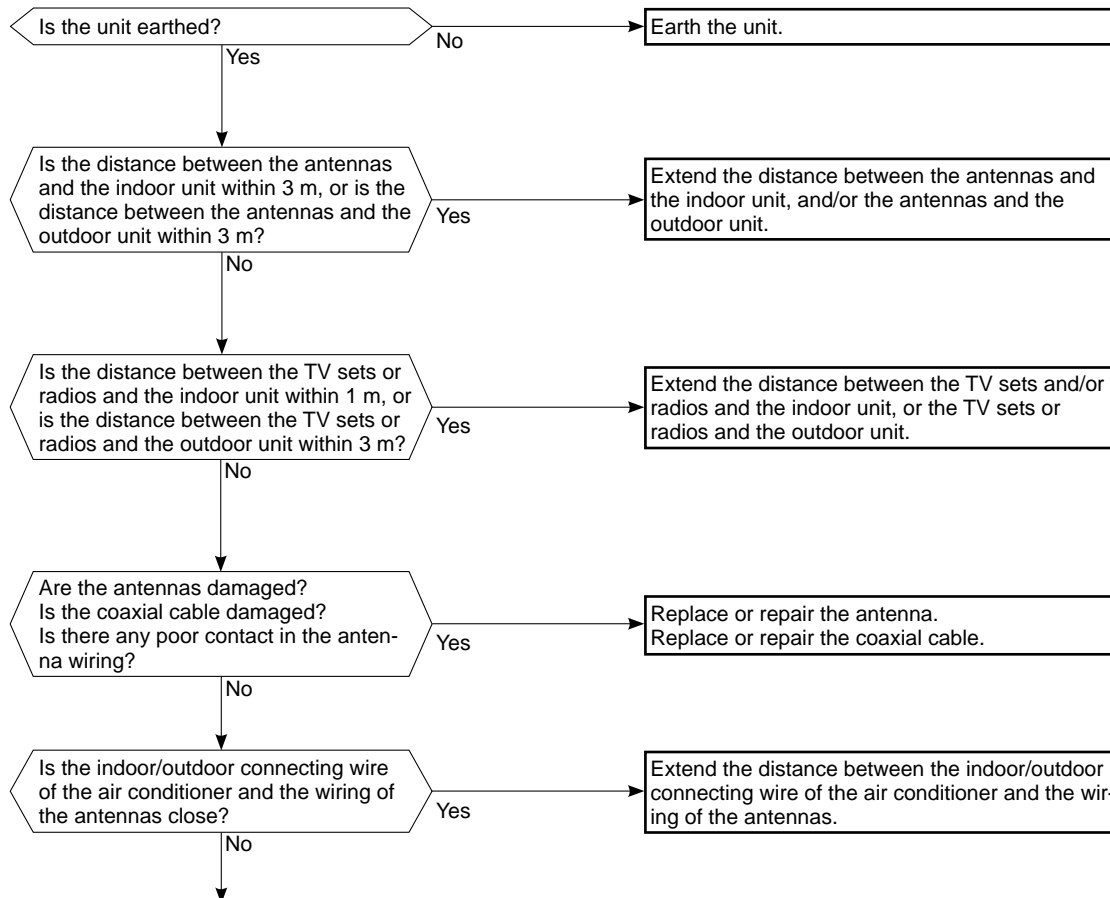
**When AIR PURIFYING lamp flashes 2-time.
When POWER lamp flashes 1 to 5 times while AIR PURIFYING power failure mode is recalled.**

E Check of AIR PURIFYING power

After performing the check, make sure to release the failure mode recall function.



F Electromagnetic noise enters into TV sets or radios



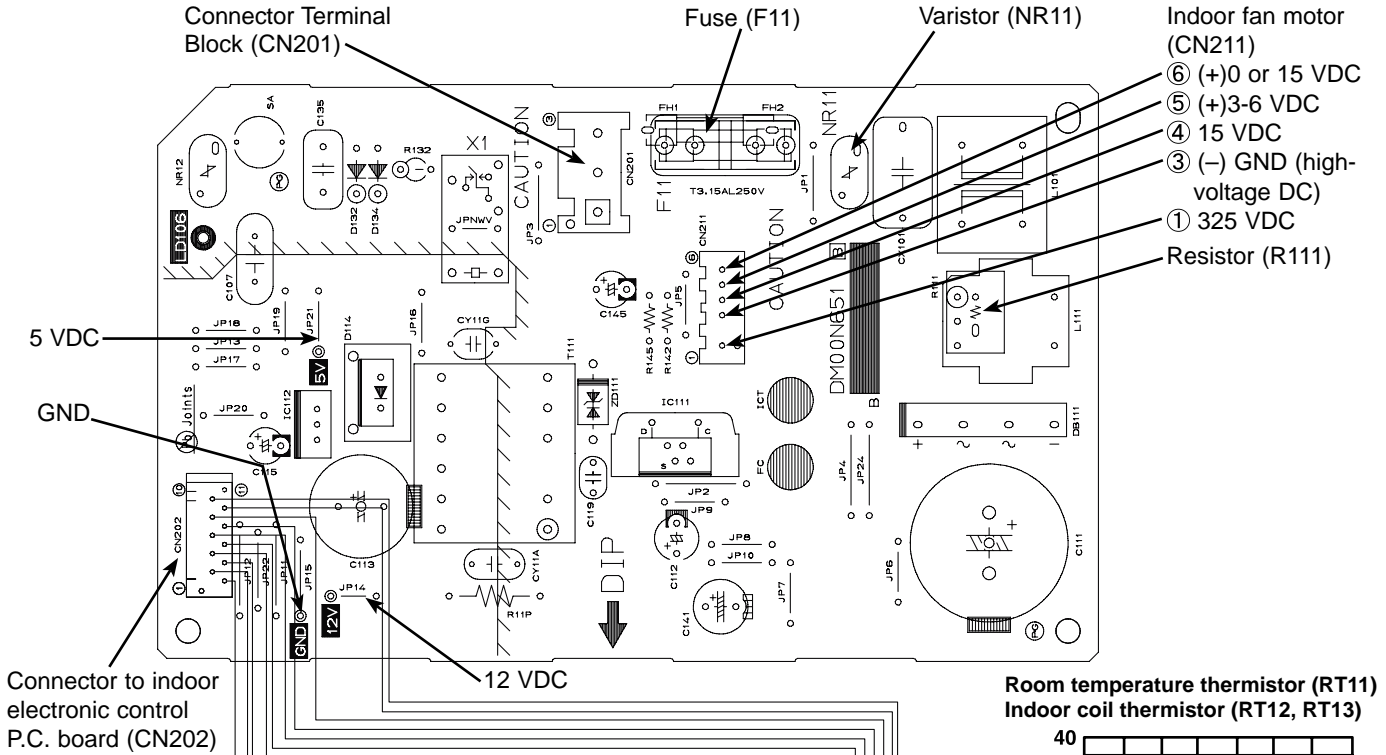
Even if all of the above conditions are fulfilled, the electromagnetic noise may enter, depending on the electric field strength or the installation condition (combination of specific conditions such as antennas or wiring).
 Check the following before asking for service.

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
4. Layout of:
 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
6. 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 noise.
 - 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.

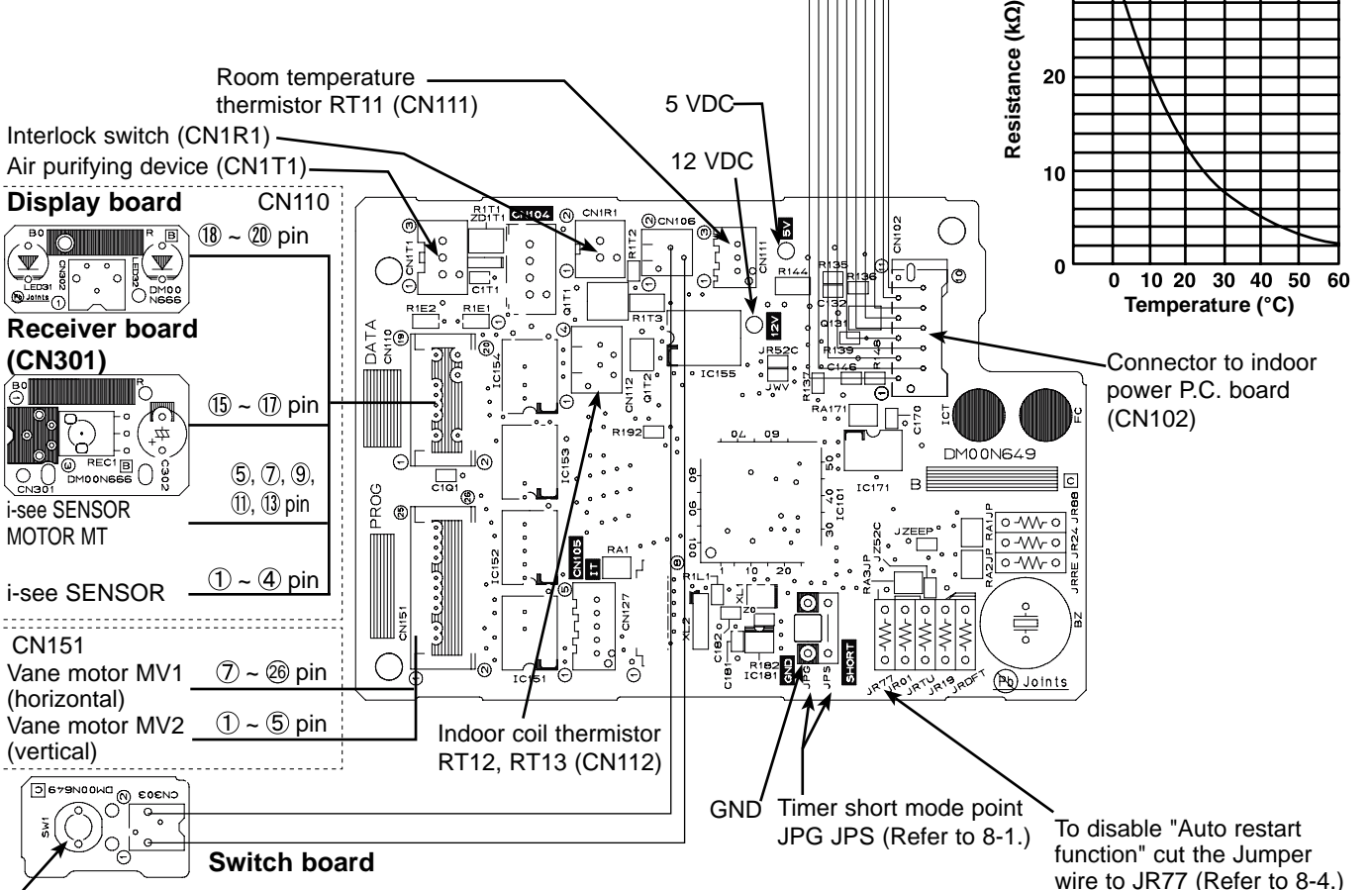
10-7. TEST POINT DIAGRAM AND VOLTAGE

Indoor power P.C. board, Indoor electronic control P.C. board, Receiver board, Display board, Switch board MSZ-FH25VE MSZ-FH35VE

Indoor power P.C. board



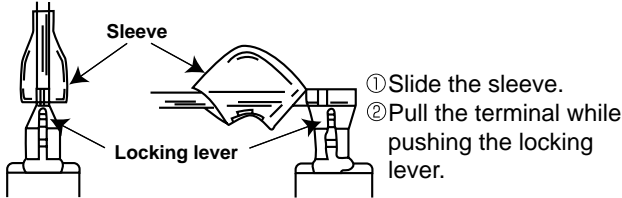
Indoor electronic control P.C. board



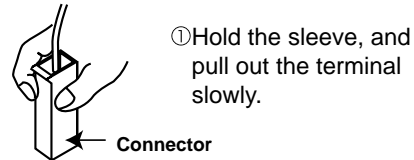
<"Terminal with locking mechanism" Detaching points>

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.



11-1. MSZ-FH25VE MSZ-FH35VE

NOTE: Turn OFF power supply before disassembly.

OPERATING PROCEDURE	PHOTOS
<p>1. Removing the panel (1) Remove the horizontal vanes.</p> <div data-bbox="124 974 686 1518" style="border: 1px solid black; padding: 5px;"> <p>Removal procedure Unlock the upper and lower vanes as shown in ① using a thin instrument. Then, remove the horizontal vanes in the direction of ②.</p> <p>① Unlock</p> <p>② Upper and lower vanes</p> </div> <p>(2) Remove the front panel. Remove the screw caps of the under panel. Remove the screws of the under panel. (3) Pull out the right top corner of the right panel and remove the right panel. (4) Pull out the left bottom corner of the left panel and remove the left panel. (5) Unhook the lower part ① of the under panel and remove the under panel.</p>	<p>Photo 1</p> <p>Front panel</p> <p>Horizontal vanes</p> <p>Horizontal vanes</p> <p>Photo 2</p> <p>Left panel</p> <p>Screws of the panels</p> <p>Right panel</p> <p>Under panel</p> <p>Screws of the under panel</p> <p>①</p>

OPERATING PROCEDURE

2. Remove the indoor electrical box

- (1) Remove the panels (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)
 CN1T1 (Air purifying device)
 CN1R1 [Interlock switch (Air purifying device)]
 <Indoor power P.C. board>
 CN211 (Indoor fan motor)
- (6) 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 ㊸ (Photo 9) and ㊹ (Photo 4) so that it will not be pinched under the electrical box.

3. 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 panels (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 lead wire holder.
- (7) Remove the indoor power P.C. board.
- (8) Disconnect the following connectors:
 <Indoor electronic control P.C. board>
 CN106 (Switch P.C. board)
 CN110 (DISPLAY AND i-see SENSOR ASSEMBLY)
 CN111 (Room temperature thermistor)
 CN112 (Indoor coil thermistor)
- (9) Unhook the catches of the DISPLAY AND i-see SENSOR ASSEMBLY from the electrical box (right side).
- (10) Unhook the catch of the rear cover of the DISPLAY AND i-see SENSOR ASSEMBLY, and open the rear cover. Remove the display P.C. board and the receiver P.C. board.
- (11) Open the switch panel and remove the switch P.C. board.

PHOTOS

Photo 3

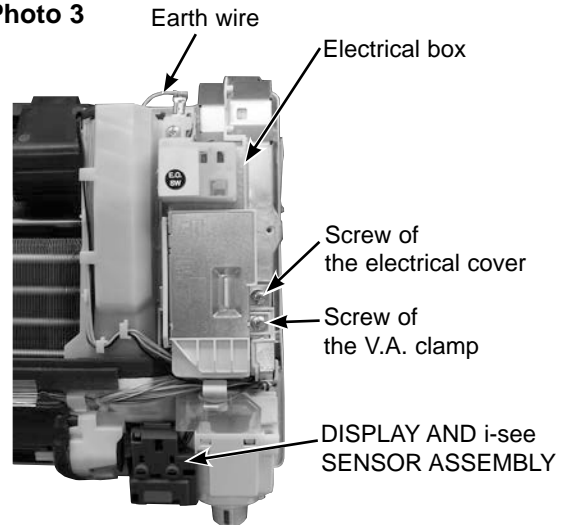


Photo 4

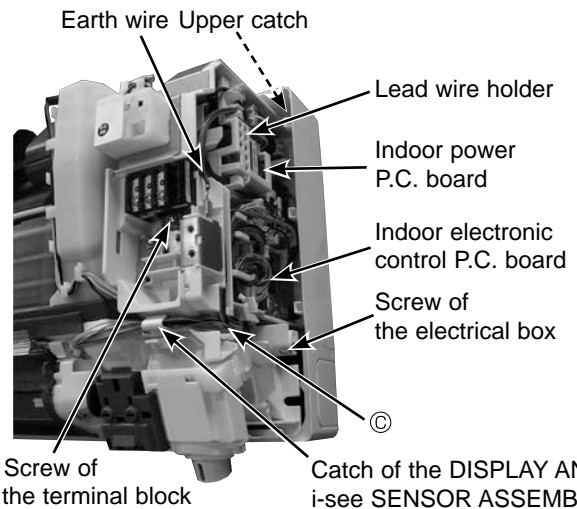


Photo 5

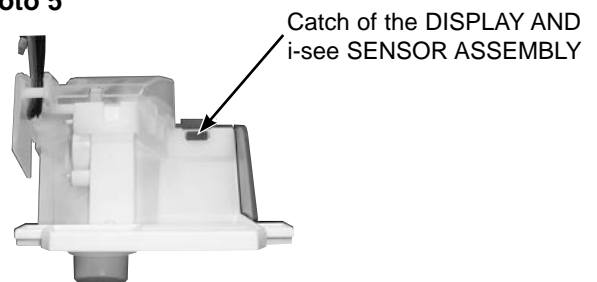
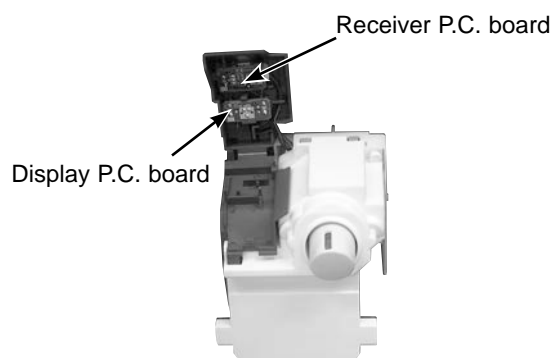
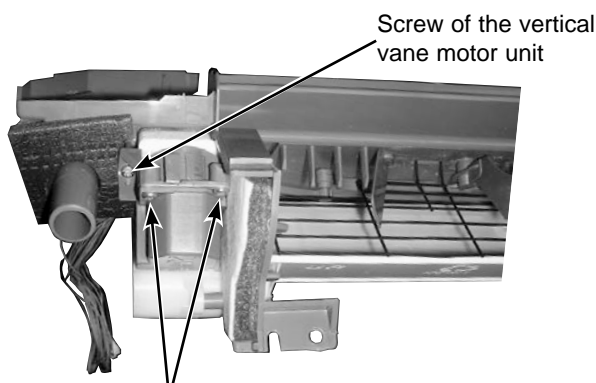
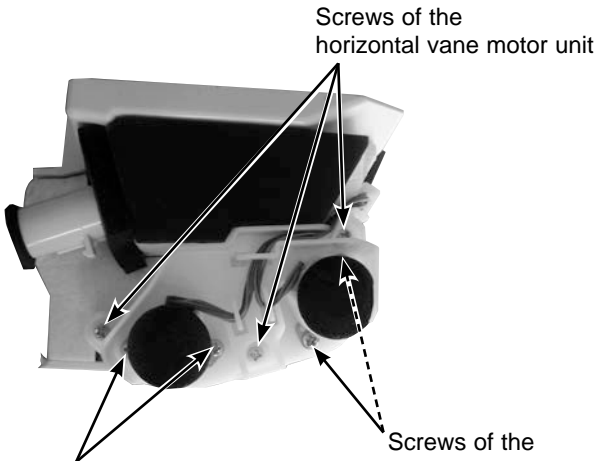


Photo 6





OPERATING PROCEDURE	PHOTOS
<p>4. Removing the nozzle assembly</p> <ol style="list-style-type: none">(1) Remove the panels (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 AND i-see SENSOR ASSEMBLY.(6) Pull out the drain hose from the nozzle assembly and remove the nozzle assembly.(7) Remove the vane motors (Refer to 5, 6.).	<p>Photo 7</p>  <p>Screw of the vertical vane motor unit</p> <p>Screws of the vane motor unit cover</p>
<p>5. Removing the vertical vane motor</p> <ol style="list-style-type: none">(1) Remove the nozzle assembly (Refer to 4.)(2) Remove the screw of the vertical vane motor unit, and pull out the vertical vane motor unit.(3) Remove the screws of the vertical vane motor unit cover.(4) Disconnect the connector from the vertical vane motor.(5) Remove the vertical vane motor from the vertical motor unit cover.	<p>Photo 8</p>  <p>Screws of the horizontal vane motor unit</p> <p>Screws of the horizontal vane motor</p>
<p>6. Removing the horizontal vane motor</p> <ol style="list-style-type: none">(1) Remove the nozzle assembly (Refer to 4.).(2) Remove the screws of the horizontal vane motor unit, and pull out the horizontal vane motor unit.(3) Remove the screws of the horizontal vane motor.(4) Disconnect the connector from the horizontal vane motor.(5) Remove the horizontal vane motor from the horizontal vane motor unit.	

OPERATING PROCEDURE

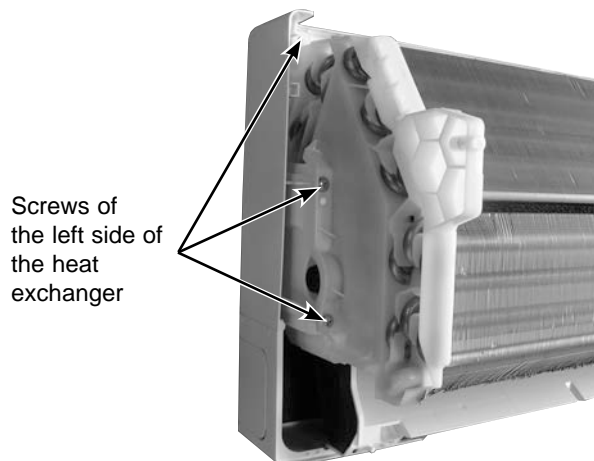
7. Removing the air purifying device

- (1) Remove the panels (Refer to 1.) and the corner box right.
- (2) Remove the air purifying device.
- (3) Remove the electrical box (Refer to 2.).
- (4) Remove the lead wire from the water cut.
- (5) Release the hooks of the water cut and remove the water cut.
- (6) Remove the screw of the air purifying device support.
- (7) Remove the air purifying device support.

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

- (1) Remove the panels (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 9.).
- (9) Remove the screws fixing the left side and the upper right side of the heat exchanger.
- (10) Lift the heat exchanger, and pull out the line flow fan to the lower left.

Photo 12



PHOTOS

Photo 9

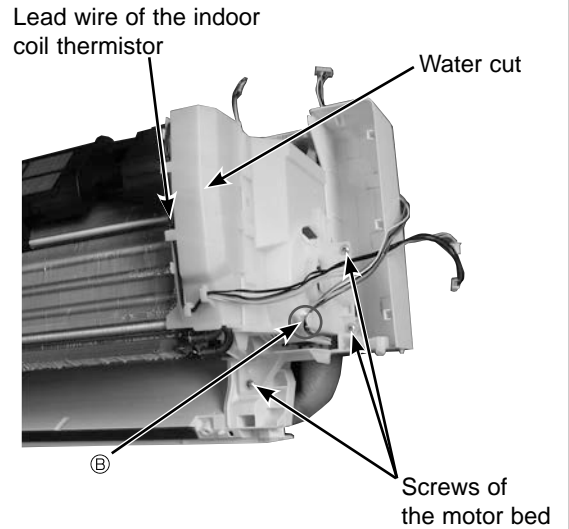


Photo 10

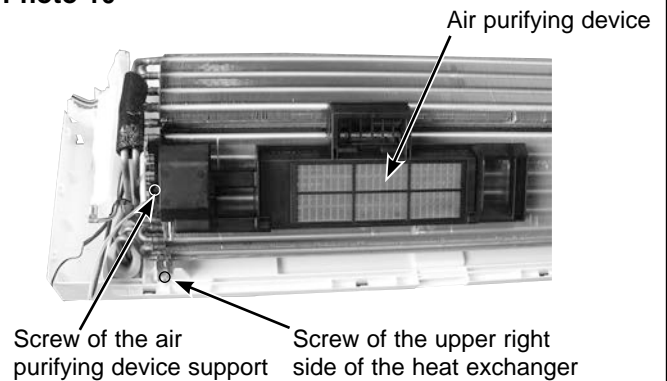
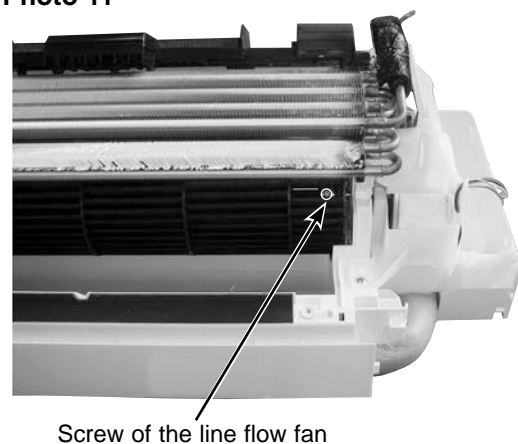


Photo 11



MITSUBISHI ELECTRIC CORPORATION

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