

Revision D:

 MSY-TP35/50VF2-E1 have been added.

OBH816 REVISED EDITION-C is void.

INDOOR UNIT

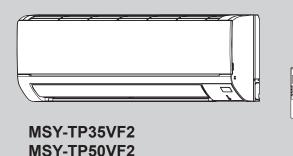
No. OBH816
REVISED EDITION-D

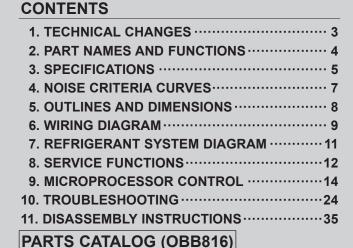
SERVICE MANUAL

Models

MSY-TP35VF - E1, ET1, E2 MSY-TP50VF - E1, ET1, E2 MSY-TP35VF2 - E1 MSY-TP50VF2 - E1

Outdoor unit service manual MUY-TP-VF Series (OBH817)





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 pull 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.

A WARNING

- · When the refrigerant circuit has a leak, do not execute pump down with the compressor.
- When pumping down the refrigerant, stop the compressor before disconnecting the refrigerant pipes.
 The compressor may burst if air etc. get into it.
- When opening or closing the valve below freezing temperatures, refrigerant may spurt out from the gap between the valve stem and the valve body, resulting in injuries.

Revision A:

10. TROUBLESHOOTING has been modified.

Revision B:

• MSY-TP35/50VF - ER1, E2 have been added.

Revision C:

• Error Code has been added in 10-4. TROUBLESHOOTING CHECK TABLE.

Revision D:

MSY-TP35/50VF2-E1 have been added.

1 TECHNICAL CHANGES

MSY-TP35VF - E1, ET1, ER1
MSY-TP50VF - E1, ET1, ER1

1. New model

MSY-TP35VF - E1 → MSY-TP35VF - E2

MSY-TP50VF - E1 → MSY-TP50VF - E2

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

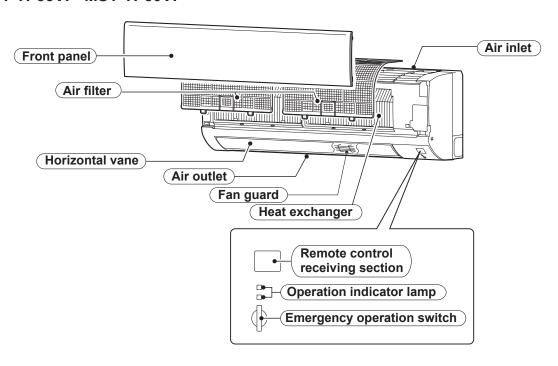
 $\mathsf{MSY}\text{-}\mathsf{TP35VF} - \text{-}\text{-}\text{-}\text{-}\mathsf{MSY}\text{-}\mathsf{TP35VF2} - \text{-}\text{-}\text{-}\text{-}\text{-}$

MSY-TP50VF - □2 → MSY-TP50VF2 - □1

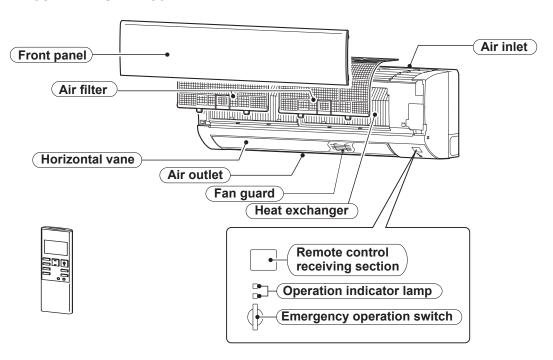
1. Remote controller has been added.

PART NAMES AND FUNCTIONS

MSY-TP35VF MSY-TP50VF



MSY-TP35VF2 MSY-TP50VF2



3 SPECIFICATIONS

		Indoor mod	el		MSY-TP35VF	MSY-TP50VF
Power supply				Single phase 230 V, 50 Hz		
Breaker Capacity A				Α	10	
lta	Power input *1 (Total)		Cooling	W	760	1,450
Electrical data	Running current *1 (Total) C		Cooling	А	3.6	6.4
Electr	Power factor *1 (Total) Cooling		Cooling	%	91	98
	Starting curre	nt *1 (Total)		Α	3.6	6.4
Fan motor	Model				E1, ET1: RC0J30-MD, [ER1, [E2]: RC0J40-SA
Fan	Current *1 Cooling		А	0.32		
Dim	ensions W × H	I × D		mm	923 × 305 × 250	
Wei	ght			kg	12.5	i
	Air direction				5	
		- 5	Super High		984	990
	Airflow	Cooling	High	m³/h	822	
	Air	Š	Med.	111 /11	696	
ပ္သ		Low	1	606		
lark			Super High		45	
l Fi	nud Jud	i <u>ii</u>	High	4D(V)	40	
<u>a</u>	Sound	Cooling	Med.	dB(A)	36	
Special remarks		O	Low		31	
S	D.	_	Super High		1,070	1,080
	реє	ling	High	rom	930	
	S UI		Med.	rpm	820	
	E O		Low		740	
	Fan speed re	gulator			4	

NOTE: Test conditions are based on ISO 5151.

Cooling : Indoor Dry-bulb temperature 27°C Outdoor Dry-bulb temperature 35°C

*1 Measured under rated operating frequency.

Wet-bulb temperature 19°C

Specifications and rated conditions of main electric parts

Fuse	(F11)	T3.15AL250V
Horizontal vane motor	(MV)	12 V DC
Varistor	(NR11)	470 V
Terminal block	(TB)	5P

Indoor model					MSY-TP35VF2	MSY-TP50VF2
Power supply				Single phase 230 V, 50 Hz		
Brea	aker Capacity			Α	10	0
ata	Power input *1 (Total) Cool		Cooling	W	760	1,450
Electrical data	Running curr	Running current *1 (Total) Cooling		А	3.6	6.4
Electr	Power factor	*1 (Total)	Cooling	%	91	98
	Starting curre	ent *1 (Total)		Α	3.6	6.4
Fan motor	Model				RC0J4	10-SA
Fan	Current *1		Cooling	А	0.3	32
Dim	ensions W × I	H × D		mm	923 × 305 × 250	
Wei	ght			kg	12.1	
	Air direction				5	
	_	C 0	Super High		984	990
	l ol	i <u>E</u>	High	m³/h	822	
	Airflow	Cooling	Med.	'''' /''	69	6
ŝ			Low		60	
nar!	_		Super High		4:	5
_ e	Sound	ill E	High	dB(A)	40	0
Special remarks	Sol e	Cooling	Med.		36	
bec			Low		3.	1
S	pa		Super High		1,070	1,080
) be	ļ ji	High	rpm	93	0
	Fan speed	Cooling	Med.	I IPIII	82	0
	Fa C		Low		74	0
	Fan speed regulator				4	
	Remote controller model				AEH	25B

NOTE: Test conditions are based on ISO 5151.

Outdoor Dry-bulb temperature 35°C

Wet-bulb temperature 19°C

Specifications and rated conditions of main electric parts

Fuse	(F11)	T3.15AL250V
Horizontal vane motor	(MV)	12 V DC
Varistor	(NR11)	470 V
Terminal block	(TB)	5P

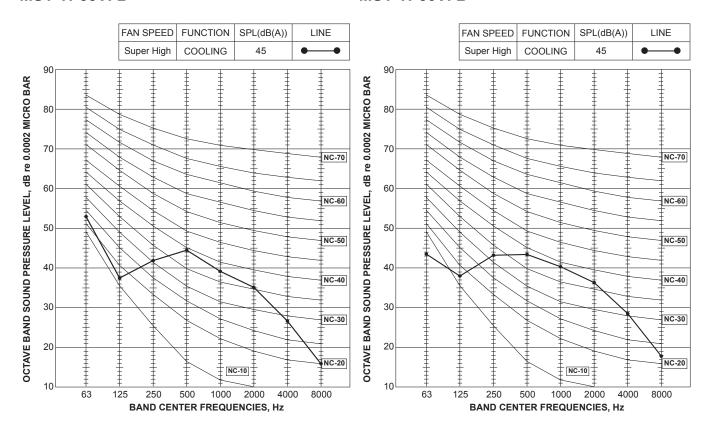
^{*1} Measured under rated operating frequency.

4

NOISE CRITERIA CURVES

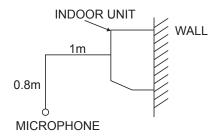
MSY-TP35VF MSY-TP35VF2

MSY-TP50VF MSY-TP50VF2



Test conditions

Cooling : Dry-bulb temperature 27°C $\,$ Wet-bulb temperature 19°C $\,$

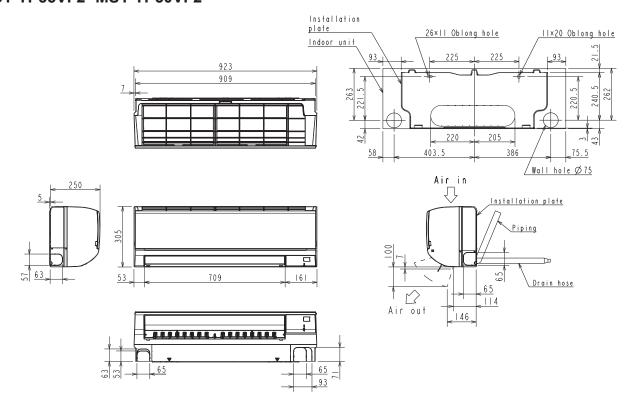


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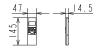
OUTLINES AND DIMENSIONS

MSY-TP35VF MSY-TP50VF MSY-TP35VF2 MSY-TP50VF2

Unit: mm



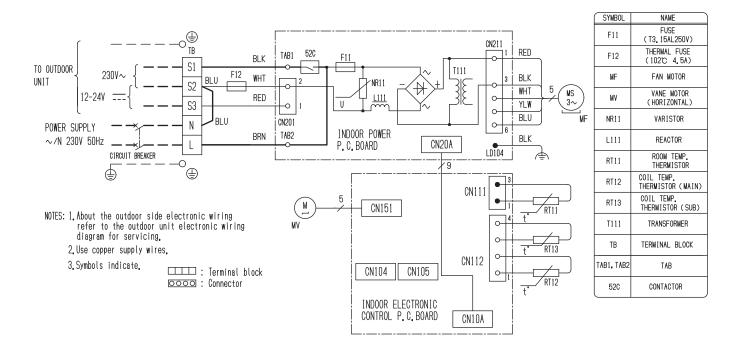
MSY-TP35/50VF2



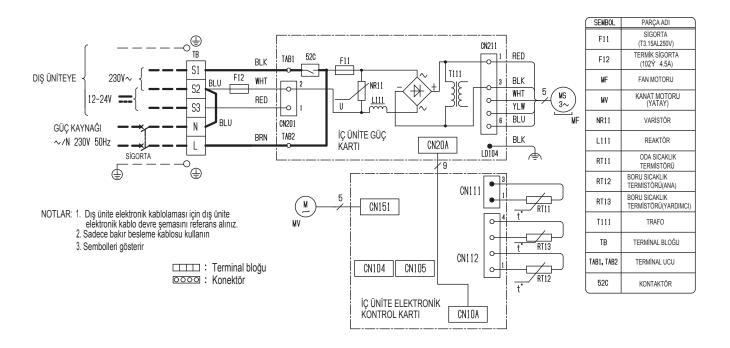
þ	Insulation	Ø50 O.D
Piping	Liquid line	Ø8 - 0.5m (Flared connection Ø6.35)
ш.	Gas line	Ø12 - 0.45m (Flared connection Ø9.52)
Drain hose		Insulation Connected part Ø16 O.D

WIRING DIAGRAM

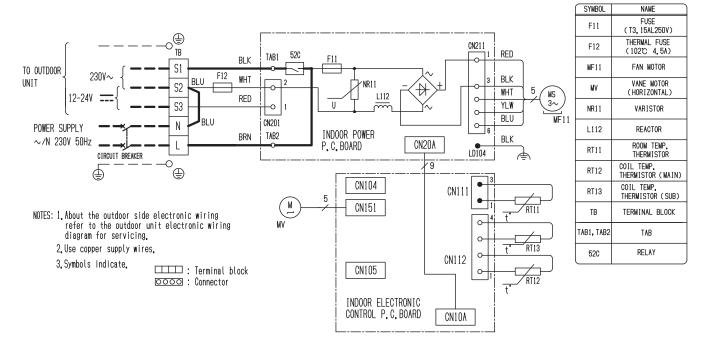
MSY-TP35VF - ET MSY-TP50VF - ET



MSY-TP35VF-ETT MSY-TP50VF-ETT



MSY-TP35VF-E2, ERI MSY-TP50VF-E2, ERI MSY-TP50VF2-E1

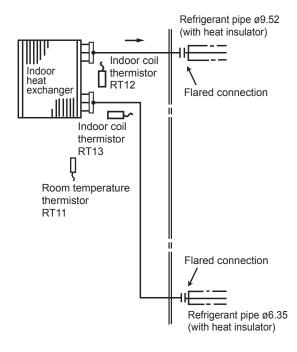


7

REFRIGERANT SYSTEM DIAGRAM

MSY-TP35VF MSY-TP50VF MSY-TP35VF2 MSY-TP50VF2

Unit: mm



-- Refrigerant flow in cooling

8

SERVICE FUNCTIONS

8-1. TIMER SHORT MODE

For service, the following set time can be shortened by bridging the timer short mode point on the electronic control P.C. board. (Refer to 10-7.)

Set time : 3-minute \rightarrow 3-second (It takes 3 minutes for the compressor to start operation. However, the starting time is shortened by bridging the timer short mode point.)

NOTE: While the relay 52C is ON, the compressor starting time cannot be shortened.

8-2. P.C. BOARD MODIFICATION FOR INDIVIDUAL OPERATION (MSZ-TP·VF)

Option: MAC-SL100M-E

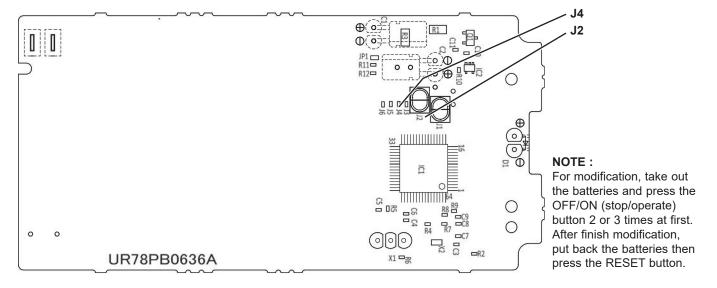
A maximum of 4 indoor units with wireless remote controllers can be used in a room.

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

How to modify the remote controller P.C. board

Remove batteries before modification.

The board has a print as shown below:



The P.C. board has the print "J2" and "J4". Solder "J2" and "J4" 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 J2	Same as at left	Same as at left
No. 3 unit	_	-	Solder J4	Same as at left
No. 4 unit	-	-	-	Solder both J2 and J4

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 been restored.

8-3. HOW TO SET REMOTE CONTROLLER EXCLUSIVELY FOR A PARTICULAR INDOOR UNIT (MSZ-TP·VF2)

A maximum of 4 indoor units with wireless remote controllers can be set.

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

Set according to the following procedure:

- (1) Turn the breaker OFF for the unit.
- (2) With the remote controller powered OFF, hold down UNIT button on the remote controller for 2 seconds to enter the pairing mode.

Setting number is displayed in the remote controller.

- (3) Press UNIT button again and assign a number to each remote controller. Each press of UNIT button advances the number in the following order: $1\rightarrow2\rightarrow3\rightarrow4$.
- (4) Press Operation select () 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.

The setting of indoor unit will be cancelled, if the breaker is turned OFF or the power supply is shut down.

8-4. AUTO RESTART FUNCTION

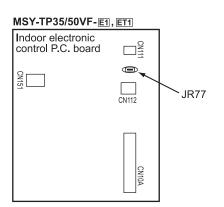
When the indoor unit is controlled with the remote controller, the operation mode, the set temperature, and the fan speed are memorized by the indoor electronic control P.C. board. "AUTO RESTART FUNCTION" automatically starts operation in the same mode just before the shutoff of the main power.

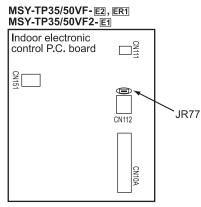
Operation

- 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 turned 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 the breaker from tripping 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

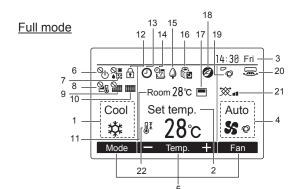
MSY-TP35VF MSY-TP50VF MSY-TP35VF2 MSY-TP50VF2

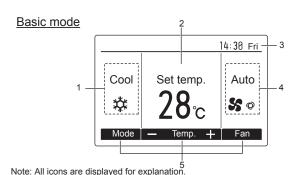
1 WIRED REMOTE CONTROLLER (Option : Example) PAR-33MAA

NOTE: MAC-SL100M-E (option) may be used with this product. (Refer to 2 WIRELESS REMOTE CONTROLLER.)

Display

The main display can be displayed in 2 different modes: "Full" and "Basic." The initial setting is "Full."





1 Operation mode

Indoor unit operation mode appears here

2 Preset temperature

Preset temperature appears here.

3 Clock

(See the Installation Manual.)

Current time appears here

4 Fan speed

Fan speed setting appears here

■ 5 Button function guide

Functions of the corresponding buttons appear here

■ 6 [©](I)

Appears when the ON/OFF operation is centrally

7 *****

Appears when the operation mode is centrally

8 2

Appears when the preset temperature is centrally controlled.

■9 🎬

Appears when the filter reset function is centrally

10

Indicates when filter needs maintenance.

11 Room temperature
(See the Installation Manual.)

Current room temperature appears here.

■ 12 🔒

Appears when the buttons are locked.

■ 13 🕘

Appears when the On/Off timer or Night setback function is enabled.

■ 14 📆

Appears when the Weekly timer is enabled.

■ 15 🔷

Appears while the units are operated in the energy-saving mode.

■ 16 **ਿੱ**

Appears while the outdoor units are operated in the silent mode.

17

Appears when the built-in thermistor on the remote controller is activated to monitor the room temperature (a).

appears when the thermistor on the indoor unit is activated to monitor the room

18 🥝

Appears when the units are operated in the energy-saving mode with 3D i-see Sensor.

■ 19 🗒

Indicates the vane setting.

20 🔙

Indicates the louver setting.

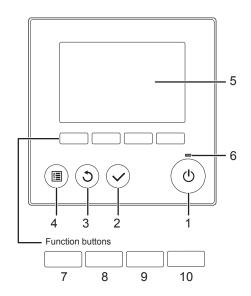
■ 21 💥

Indicates the ventilation setting.

■ 22 🍱

Appears when the preset temperature range is restricted.

Controller interface



- When the backlight is off, pressing any button turns the backlight on and does not perform its function. (except for the OFF/ON button)
- Most settings (except OFF/ON, mode, fan speed, temperature) can be made from the Menu screen.

1 OFF/ON button

Press to turn ON/OFF the indoor unit.

■ 2 SELECT button

Press to save the setting.

■ 3 RETURN button

Press to return to the previous screen.

4 MENU button

Press to bring up the Main menu.

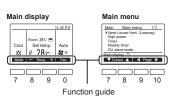
■ 5 Backlit LCD

Operation settings will appear. When the backlight is off, pressing any button turns the backlight on and it will stay lit for a certain period of time depending on the screen.

■ 6 ON/OFF lamp

This lamp lights up in green while the unit is in operation. It blinks while the remote controller is starting up or when there is an error

The functions of the function buttons change depending on the screen. Refer to the button function guide that appears at the bottom of the LCD for the functions they serve on a given screen. When the system is centrally controlled, the button function guide that corresponds to the locked button will not appear.



7 Function button F1

Main display: Press to change the operation mode.

Main menu: Press to move the cursor down.

8 Function button F2

Main display: Press to decrease temperature. Main menu: Press to move the cursor up.

9 Function button F3

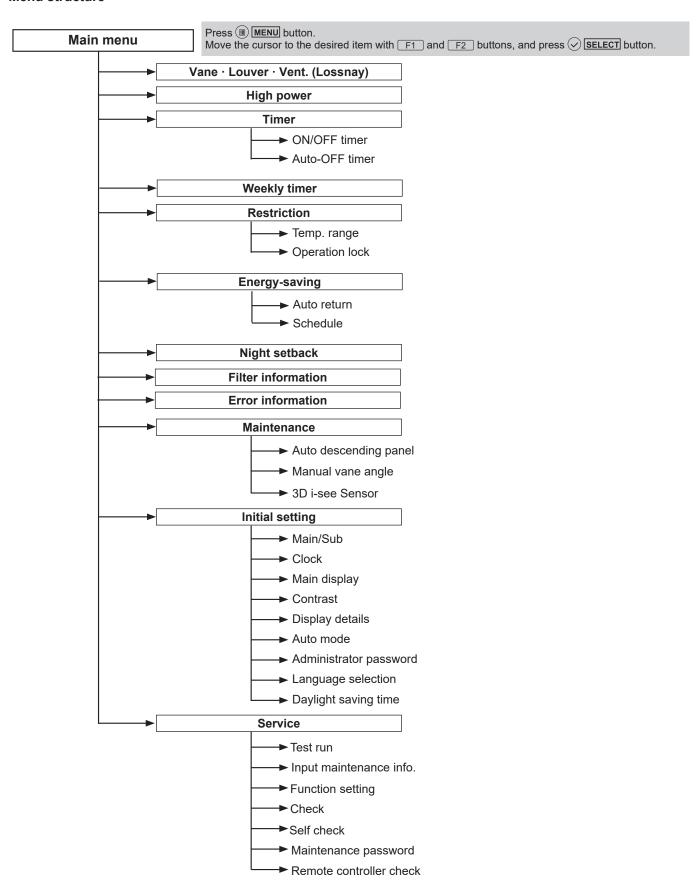
Main display: Press to increase temperature.

Main menu: Press to go to the previous page

10 Function button F4

Main display: Press to change the fan speed. Main menu: Press to go to the next page.

Menu structure



Not all functions are available on all models of indoor units.

Main menu list

Setting and display items		Setting details		
Vane · Louver · Vent. (Lossnay)		Use to set the vane angle. • Select a desired vane setting from 5 different settings. Use to turn ON/OFF the louver. Not available Use to set the amount of ventilation. Not available		
High power		Use to reach the comfortable room temperature quickly. Not available		
Timer	ON/OFF timer*	Use to set the operation ON/OFF times. • Time can be set in 5-minute increments.		
	Auto-Off timer	Use to set the Auto-OFF time. • Time can be set to a value from 30 to 240 in 10-minute increments.		
Filter information	on	Use to check the filter status. Not available		
Error information	on	Use to check error information when an error occurs. • Check code, error source, refrigerant address, unit model, manufacturing number, contact information (dealer's phone number) can be displayed. (The unit model, manufacturing number, and contact information need to be registered in advance to be displayed.)		
Weekly timer*		Use to set the weekly operation ON/OFF times. • Up to 8 operation patterns can be set for each day. (Not valid when the ON/OFF timer is enabled.)		
Energy saving	Auto return	Use to get the units to operate at the preset temperature after performing energy-saving operation for a specified time period. • Time can be set to a value from 30 and 120 in 10-minute increments. (This function will not be valid when the preset temperature ranges are restricted.)		
	Schedule*	Set the start/stop times to operate the units in the energy-saving mode for each day of the week, and set the energy-saving rate. Not available		
Night setback*		Use to make Night setback settings. • Select "Yes" to enable the setting, and "No" to disable the setting. The temperature range and the start/stop times can be set.		
Restriction	Temp. range	Use to restrict the preset temperature range. • Different temperature ranges can be set for different operation modes.		
	Operation lock	Use to lock selected functions. • The locked functions cannot be operated.		
Maintenance	Auto descending panel	Not available		
	Manual vane angle	Not available		
	3D i-see Sensor	Not available		
Initial setting	Main/Sub	When connecting 2 remote controllers, one of them needs to be designated as a sub controller.		
	Clock	Use to set the current time.		
	Main display	Use to switch between "Full" and "Basic" modes for the Main display. • The initial setting is "Full."		
	Contrast	Use to adjust screen contrast.		
	Display details	Make the settings for the remote controller related items as necessary. Clock: The initial settings are "Yes" and "24h" format. Temperature: Set either Celsius (°C) or Fahrenheit (°F). Room temp.: Set Show or Hide. Auto mode: Set the Auto mode display or Only Auto display.		
	Auto mode	Whether or not to use the AUTO mode can be selected by using the button. This setting is valid only when indoor units with the AUTO mode function are connected.		
	Administrator pass- word	The administrator password is required to make the settings for the following items. • Timer setting • Energy-saving setting • Weekly timer setting • Restriction setting • Outdoor unit silent mode setting • Night set back		
	Language selection	Use to select the desired language.		
	Daylight saving time	Sets the daylight saving time.		
Service	Test run	Select "Test run" from the Service menu to bring up the Test run menu. Not available		
	Input maintenance	Select "Input maintenance Info." from the Service menu to bring up the Maintenance information screen. The following settings can be made from the Maintenance Information screen. • Model name input • Serial No. input • Dealer information input		
	Function setting	Not available		
	Check	Error history: Display the error history and delete the error history. Refrigerant leak check: Not available Smooth maintenance: Not available Request code: Not available		
	Self check	Error history of each unit can be checked via the remote controller.		
	Self check Maintenance password	· · · · · · · · · · · · · · · · · · ·		

^{*} Clock setting is required.

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
	\	The room temperature is approaching the set temperature.	About 1 to 2°C from set temperature
	-¤-	The air filter needs to be cleaned. *1	_



*1 Timing for air filter cleaning

The air filter needs to be cleaned if the operation indicator lamp blinks when starting or stopping the operation. Follow the OPERATING INSTRUCTIONS to clean and dry the air filter, and then attach it. Hold down the FAN button to stop the operation indicator lamp from blinking.

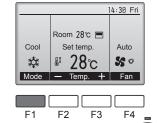
Operation status memory

	Remote controller setting
Operation mode	Operation mode before the power was turned off
Preset temperature	Preset temperature before the power was turned off
Fan speed	Fan speed before the power was turned off

Settable preset temperature range

Operation mode	Preset temperature range
Cool/Dry	16 ~ 31°C
Fan/Ventilation	Not settable

Mode selection



Press F1 button to go through the operation modes in the order of "Cool", "Dry", and "Fan". Select the desired operation mode.



9-1. COOL (\$\times) OPERATION

(1) Press (b) OFF/ON button.

OFF/ON lamp will light up in green and the operation will start.

- (2) Select COOL mode with F1 button.
- (3) Press F2 button to decrease the preset temperature, and F3 button to increase.

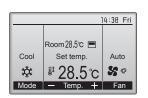
The setting range is $16 \sim 31^{\circ}$ C.

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.





Example display (Centigrade in 0.5-degree increments)

 Preset temperature will be displayed either in Centigrade in 0.5- or 1-degree increments, or in Fahrenheit, depending on the display mode setting on the remote controller.

9-2. DRY (A) OPERATION

(1) Press (b) OFF/ON button.

OFF/ON lamp will light up in green and the operation will start.

- (2) Select DRY mode with F1 button.
- (3) Press F2 button to decrease the preset temperature, and F3 button to in crease.

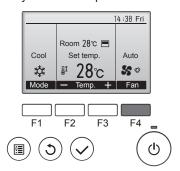
1. Coil frost prevention

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

9-3. FAN(%)OPERATION

- (1) Press (a) OFF/ON button. OFF/ON lamp will light up in green and the operation will start.
- (2) Select FAN mode with F1 button.
- (3) Press F4 button to select the desired fan speed. When AUTO, it becomes Low.

Only indoor fan operates. Outdoor unit does not operate.



Press F4 button to go through the fan speeds in the following order. Med. Low High

Super High

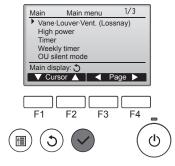
9-4. AUTO VANE OPERATION

1. Horizontal vane

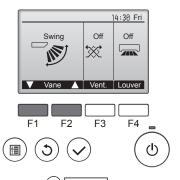
(1) Vane motor drive

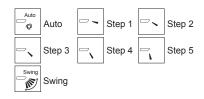
These models are equipped with a stepping motor for the horizontal vane. The rotating direction, speed, and angle of the motor are controlled by pulse signals (approximately 12 V) transmitted from indoor microprocessor.

- (2) How to set the vane angle
 - ① Press the (MENU button.
 - ② Select "Vane·Louver·Vent. (Lossnay)" with F1 or F2 button, and press SELECT button.



③ Press F1 or F2 button to go through the vane setting options: "Auto", "Step 1", "Step 2", "Step 3", "Step 4", "Step 5" and "Swing", and select the desired setting.





4 Press (3) **RETURN** button to go back to the Main menu.

(3) Positioning

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

Confirmation 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.

(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.



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

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

- (a) When (b) OFF/ON 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 3 ~ 5 when the compressor cumulative operation time exceeds 1 hour, the vane angle automatically changes to Angle 2 for dew prevention.

(7) SWING () mode

Select "Swing" to move the vanes up and down automatically.

When set to "Step 1" through "Step 5", the vane will be fixed at the selected angle.

9-5. TIMER OPERATION (ON/OFF TIMER)

The unit automatically turns on or off at the preset time.

Select "Timer" from the Main menu, and press SELECT button (Refer to the appropriate operation manual include with remote controller.).

9-6. EMERGENCY/TEST OPERATION

In the 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 or has failed, or when the batteries in the remote controller are running down. The unit will start and OPERATION INDICATOR lamp will light up.

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.

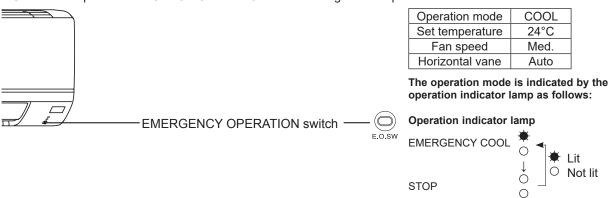
After 30 minutes of test run operation, the system shifts to EMERGENCY COOL MODE with a set temperature of 24°C. The fan speed shifts to Med.

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 the unit receives any signal from the remote controller. In the latter case, normal operation will start.

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

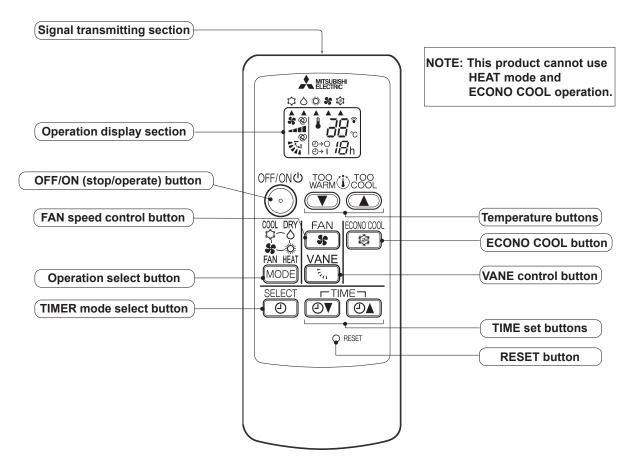


9-7. 3-MINUTE TIME DELAY OPERATION

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

2 WIRELESS REMOTE CONTROLLER

MSY-TP35VF MSY-TP50VF (Option : Example) MAC-SL100M-E



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

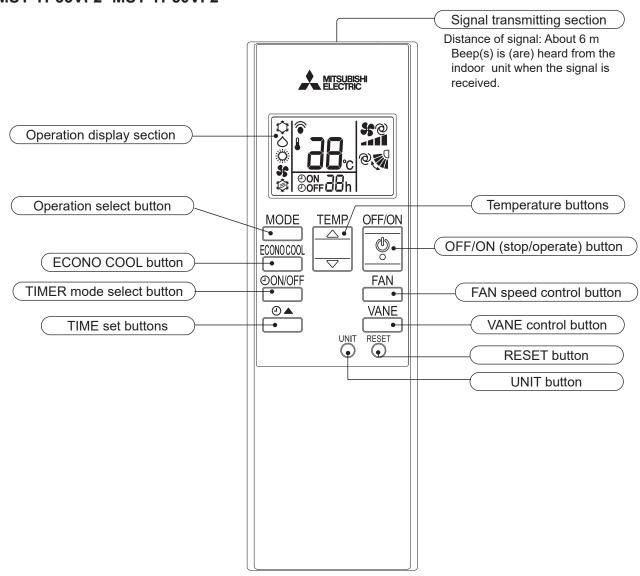
Operation Indicator lamp

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
*	The room temperature is approaching the set temperature	About 1 to 2°C from set temperature

WIRELESS REMOTE CONTROLLER MSY-TP35VF2 MSY-TP50VF2



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
*	The room temperature is approaching the set temperature	About 1 to 2°C from set temperature
O	The air filter needs to be cleaned. *1	_



*1 Timing for air filter cleaning
The air filter needs to be cleaned if
the operation indicator lamp blinks
when starting or stopping the operation. Follow the OPERATING
INSTRUCTIONS to clean and dry
the air filter, and then attach it. Hold
down the FAN button to stop the
operation indicator lamp from
blinking.

9-8. COOL (🗘) OPERATION

(1) Press OFF/ON (stop/operate) 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 (TOO WARM or TOO COOL 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.

9-9. DRY (A) OPERATION

(1) Press OFF/ON (stop/operate) 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. (9-8.1.)

2. Low outside temperature operation

Low outside temperature operation works the same way as that in COOL mode. (9-8.2.)

9-10. FAN(%)OPERATION

(1) Press OFF/ON (stop/operate) button.

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.

9-11. AUTO VANE OPERATION

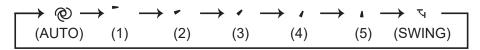
1. Horizontal vane

(1) Vane motor drive

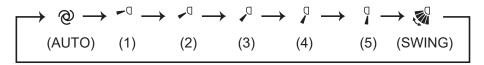
These models are equipped with a stepping motor for the horizontal vane. The rotating direction, speed, and angle of the motor are controlled by pulse signals (approximately 12 V) transmitted from indoor microprocessor.

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

MSY-TP35/50VF



MSY-TP35/50VF2



(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.

Confirmation 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 (2) 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.



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

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

- (a) When OFF/ON (stop/operate) 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 3 ~ 5 when the compressor cumulative operation time exceeds 1 hour, the vane angle automatically changes to Angle 2 for dew prevention.

(7) SWING (♥ / 🖓) mode

By selecting SWING mode with VANE control button, the horizontal vane swings vertically.

9-12. TIMER OPERATION (ON/OFF TIMER)

- 1. How to set the timer
- (1) Press OFF/ON (stop/operate) button to start the air conditioner.
- (2) Select the timer mode by pressing the ONNOFF button during operation.

Each time this button is pressed, the timer mode is changed in sequence:

①→○ / ②OFF (OFF TIMER) → ①→ |/②ON (ON TIMER) → TIMER RELEASE

(3) Set the time of the timer using the ②▼ ②▲ / _____ button.

Each time this button is pressed, the set time increase or decrease by 1 hour to 12 hours.

Press the OONOFF button until ⊕→○ / OFF (OFF TIMER) and ⊕→ | / OON (ON TIMER) are not displayed.

NOTE:

- The OFF TIMER and the ON TIMER cannot be set at the same time.
- The displayed time is the time remaining and will decrease in 1-hour increments as time passes.

9-13. EMERGENCY/TEST OPERATION

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

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 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 switch —

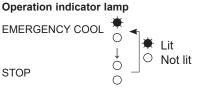
Emergency operation continues until the emergency operation switch is pressed once or twice or the unit receives any signal from the remote controller. In the latter case, normal operation will start.

NOTE: Do not press the emergency operation switch during normal operation.

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

STOP

The operation mode is indicated by the operation indicator lamp as follows:



9-14. 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.

10

TROUBLESHOOTING

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 connector housing. DO NOT pull the lead wires.

3. Troubleshooting procedure

- Check if the OPERATION INDICATOR lamp on the indoor unit is blinking ON and OFF to indicate an abnormality.
 To make sure, check how many times the OPERATION INDICATOR lamp is blinking ON and OFF before starting service work.
- 2) Before servicing, verify that all connectors and terminals are connected properly.
- 3) When the electronic control P.C. board seems to be defective, check for disconnection of the copper foil pattern and burnt or discolored components.
- 4) When troubleshooting, Refer to 10-2, 10-3 and 10-4.

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.

This mode is very useful when the unit needs to be repaired for the abnormality which does not recur.

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

NOTE: Use the wireless remote controller of MSZ-DW25VF-E1 (Refer to parts catalog OBB905.).

The remote controller has the indication of "HEAT" and a button for it, but HEAT mode cannot be used since MSY-TP series are cooling only model.

The remote controller has the indication of "ECONO COOL" and a button for it, but ECONO COOL mode cannot be used since it is not available on MSY-TP series.

Operational procedure The cause of abnormality cannot be found because the abnormality does not recur. Setting up the failure mode recall function MSY-TP35/50VF MSY-TP35/50VF2 Turn ON the power supply. MISUESH <Pre><Pre>controller> MITSUBISH ① While pressing both OPERATION SELECT button and TOO COOL button on the \$ @ 1 24: remote controller at the same time, press RESET button ② First, release RESET button. ୍ଚାଳ n Hold down the other 2 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. Press STOP/OPERATE (OFF/ON) button of the remote controller (the set temperature is *1. Regardless of normal or abnormal condition, displayed) with the remote controller headed towards the indoor unit. *1 a short beep is emitted once the signal is received. Does upper lamp of OPERATION INDICATOR lamp on the indoor unit blink at the interval of 0.5 Indoor unit is normal But the outdoor unit might be abnormal because there are some abnor-Blinks: Either indoor or outdoor unit is abnormal. malities that cannot be recalled with this way Beep is emitted at the same timing as t blinking of upper lamp of OPERATION INDICATOR lamp. *2 Check if outdoor unit is abnormal according to the detailed outdoor unit (OFF) failure mode recall function. Judgment of indoor/outdoor abnormality (Blinks) Before blinking, does upper lamp of OPERATION INDICATOR lamp stay ON for 3 seconds? When it stays ON for 3 seconds (without beep): Yes The outdoor unit is abnormal. No The outdoor unit is abnormal. The indoor unit is abnormal. Check the blinking pattern, and identify the abnormal point by referring to the table of outdoor unit failure mode recall function. (Refer to outdoor Check the blinking pattern, and identify the abnormal point by referring to the table of indoor unit failure mode recall function. (Refer to 10-2.2) unit service manual.) Make sure to check at least 2 consecutive blinking cycles. Make sure to check at least 2 consecutive blinking cycles. 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 recall function" mentioned above ② Press STOP/OPERATE (OFF/ON) 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" mentioned above 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 mem *2. Blinking pattern when the indoor unit is abnormal: Blinking at 0.5-Blinking at 0.5second interval second interval ON OFF Beeps Beeps Beens 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 second interval 2.5-second OFF 2.5-second OFF 3-second ON second interval OFF

No beep

Repeated cycle

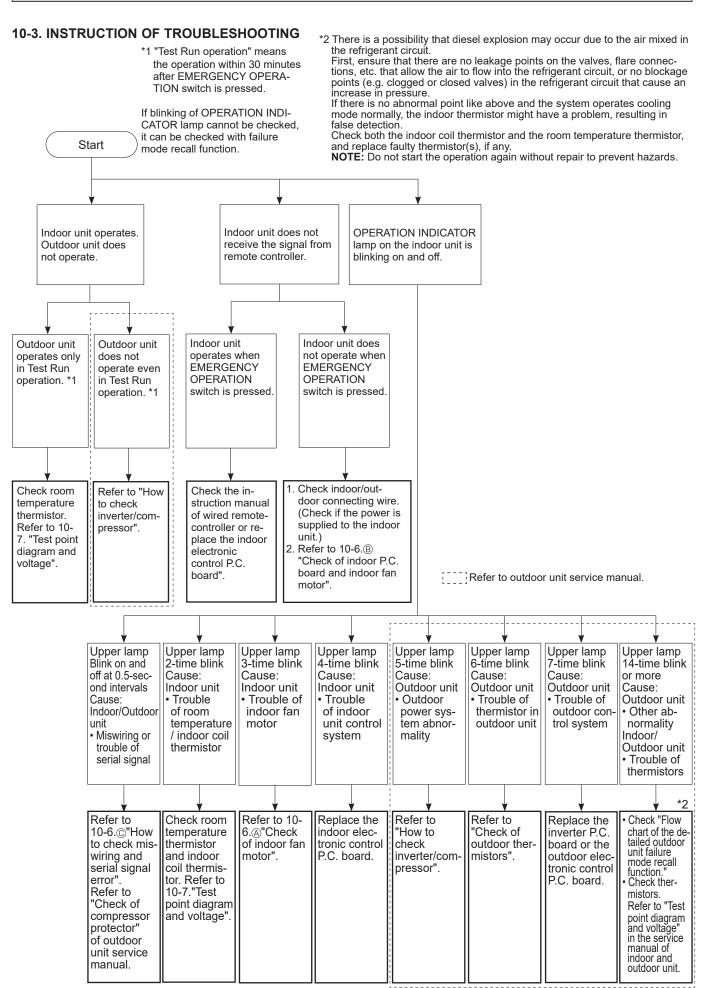
Beeps

Repeated cycle

No beep

Repeated cycle

Beeps



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 blinks.

OPERATION INDICATOR



No.	Abnormal point	Operation indicator lamp	Symptom	Condition	Remedy	Error Code
1	Miswiring or serial signal	Upper lamp blinks. 0.5-second ON		The serial signal from the outdoor unit is not received for 6 minutes.	Refer to 10-6. © "How to check miswiring and serial signal er- ror". Refer to "Check of compressor protector" of outdoor unit service manual.	E6, E7, E8, E9, EC
2	Indoor coil thermistor Room temperature thermistor	Upper lamp blinks. 2-time blink		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.).	P2, P9, PD
3	Indoor fan motor	Upper lamp blinks. 3-time blink		The rotational frequency feedback signal is not emitted during the indoor fan operation.	Refer to 10-6. "Check of indoor fan motor".	Pb
4	Indoor control system	Upper lamp blinks. 4-time blink		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.	Fb
5	Outdoor power system	Upper lamp blinks. 5-time blink	Indoor unit and outdoor unit do not operate.	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.	UP
6	Outdoor thermistors	Upper lamp blinks. 6-time blink 2.5-second OFF		The outdoor thermistors short or open circuit during the compressor operation.	Refer to "Check of outdoor thermistor". Refer to outdoor unit service manual.	U3, U4
7	Outdoor control system	Upper lamp blinks. 7-time blink ★○★○★○★○★○★○★○○○○★ 2.5-second OFF		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 con- trol P.C. board. Refer to outdoor unit service manual.	FC, U6, U9, Ed
8	Other abnormality *2	Upper lamp blinks. 14-time blink or more O O O O O O O O O O O O O O O O O O O		An abnormality other than above mentioned is detected. An abnormality of the indoor thermistors, the ambient temperature thermistor is detected.	Check the stop valve. Check the abnormality in detail using the failure mode recall function for outdoor unit. Refer to TEST POINT DIA-GRAM AND VOLTAGE" on the service manual of indoor and outdoor unit for the characteristics of the thermistors. (Do not start the operation again without repair to prevent hazards.)	U0, U1, U2, U5, U7, U8, UA, Ub, UC, Ud, UE, UF, UH, UJ, UL, UU, P8, PA, PE, PL, EJ, EF*1
9	Outdoor control system	Upper 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.	

^{*1.} Connection with interface MAC-397IF-E

^{*2.} Refer to *2 on 10-3. "INSTRUCTION OF TROUBLESHOOTING".

10-5. TROUBLESHOOTING CRITERION OF MAIN PARTS

Part name	Check m	Figure	
Room temperature thermistor (RT11)	Measure the resistance with a m	mania control	
Indoor coil thermistor (RT12, RT13)	Refer to 10-7. "Test point diagran P.C. board", for the chart of thern	ronic control	
Indoor fan motor (MF/ MF11)	Check 10-6. (A).		
Vana matar (MV)	Measure the resistance between (Part temperature 10 ~ 30°C)	er.	
Vane motor (MV)	Color of the lead wire RED - BLU	Normal 235 ~ 255 Ω	RED BLU BLU
			520 520

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 (\$\hat{\sigma}(+)\) and (\$\hat{\sigma}(-)\). <Indoor electronic control P.C. board> 3. Measure the voltage between CN10A @(+) and 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 V DC although the indoor P.C. board is normal. Does the voltage between CN211 ⑤ Is there 325 V DC (+) and ③ (-) on the power P.C. board between CN211 ① (+) rise to the range of 3 to 6 V DC within Replace the indoor fan motor. Yes Yes and ③ (-)? 12 seconds after EMERGENCY OPERATION switch is pressed? Nο No Does the voltage between CN10A ②(+) and 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 CN10A ① Measure the voltage between CN211 Is it unchanged holding (+) and GND (–) on the indoor ⑥(+) and ③(-) while the fan motor is No (Changed) electronic control F.O Bottle fan motor is rotaring. 0 or 15 V DC? electronic control P.C board when rotating. (Unchanged) Replace the indoor fan motor.

Is it unchanged holding 0 or 5 V DC?

(Unchanged

Replace the indoor

board

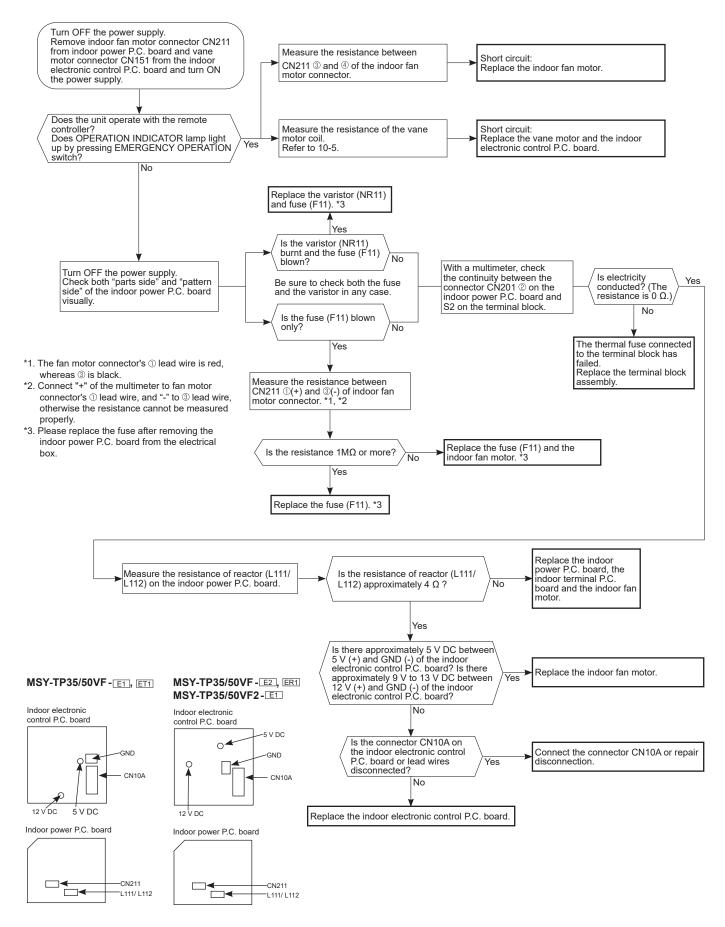
(Changed)

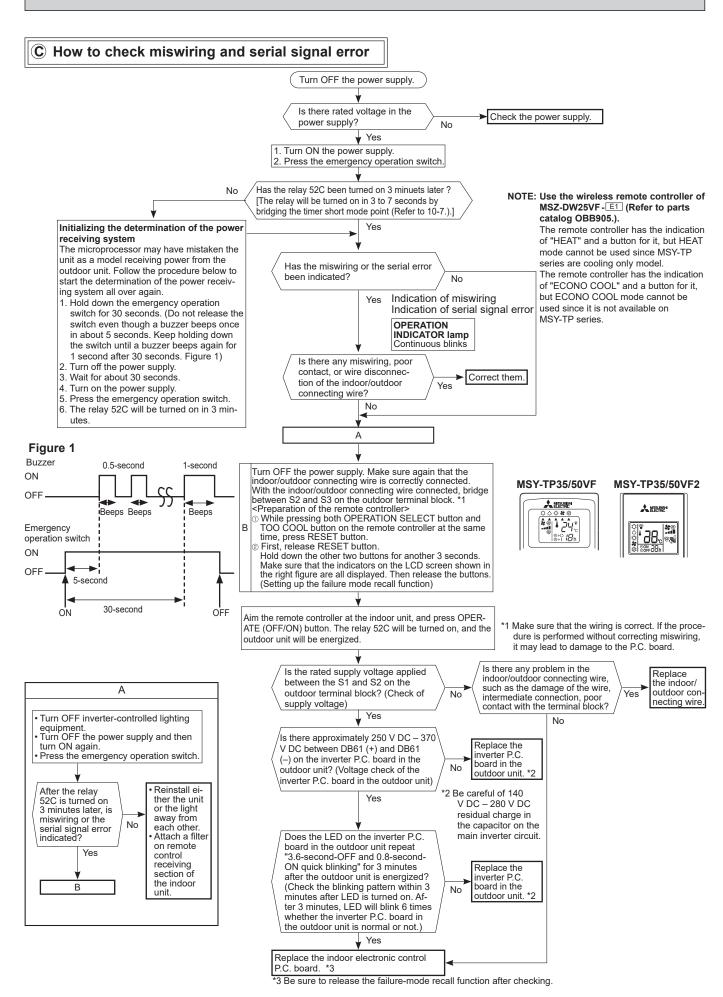
electronic control P.C.

board.

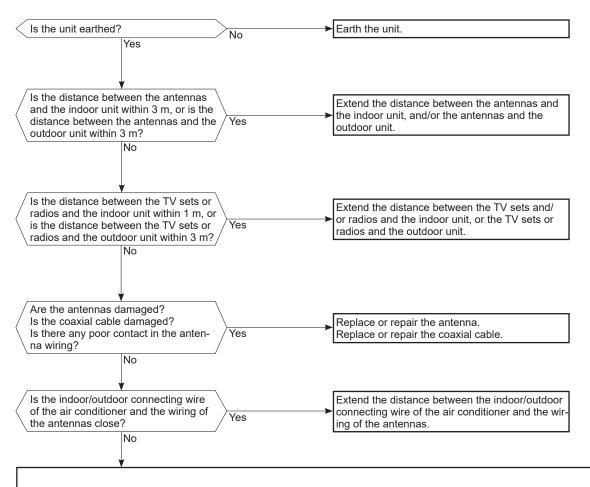
Replace the indoor power P.C.

(B) Check of indoor P.C. board and indoor fan motor





D Electromagnetic noise enters into TV sets or radios



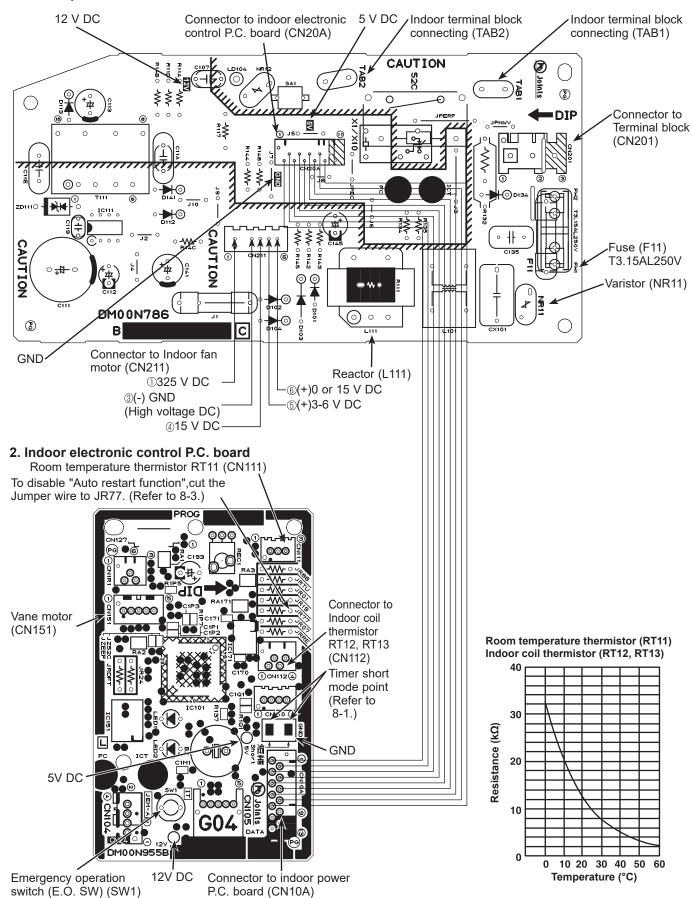
Even if all of the above conditions are fulfilled, the electromagnetic noise may enter, depending on the electric field strength or the installation condition (combination of specific conditions such as antennas or wiring). Check the following before asking for service.

- 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 OFF/ON (stop/operate) 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 OFF/ON (stop/operate) 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.

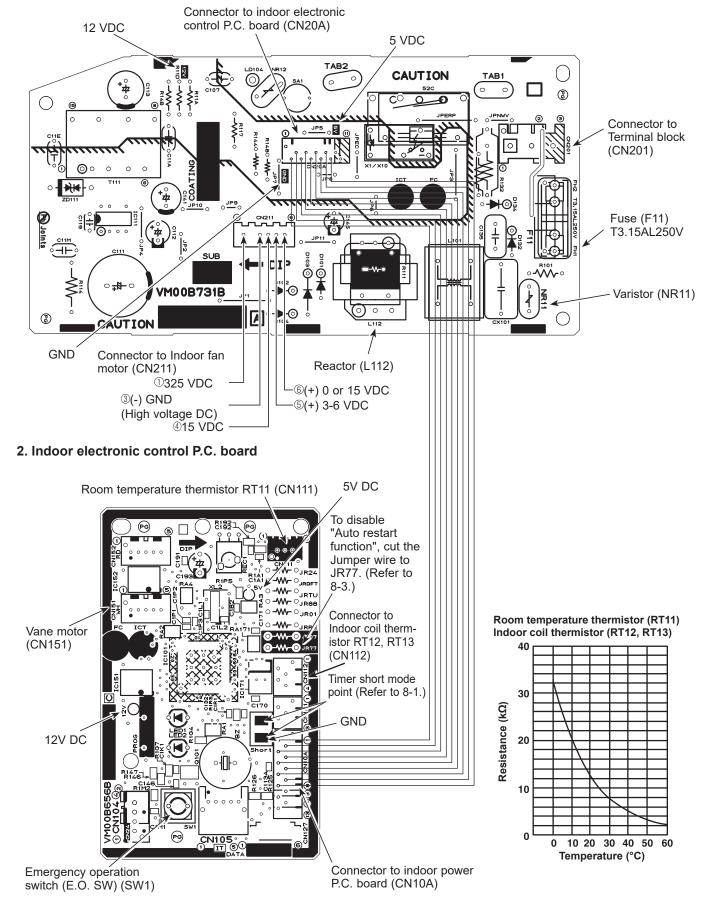
10-7. TEST POINT DIAGRAM AND VOLTAGE

MSY-TP35VF-E1, ET1 MSY-TP50VF-E1, ET1

1. Indoor power P.C. board



MSY-TP35VF - E2, ERI MSY-TP50VF - E2, ERI MSY-TP35VF2 - E1 MSY-TP50VF2 - E1 1. Indoor power P.C. board



DISASSEMBLY INSTRUCTIONS

<Detaching method of the terminal with locking mechanism>

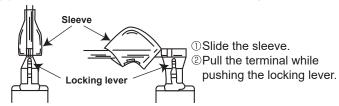
The terminal which has the locking mechanism can be detached as shown below.

There are 2 types of the terminal with locking mechanism.

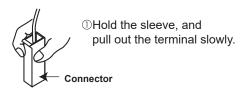
The terminal without locking mechanism can be detached by pulling it out.

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 shown below has the locking mechanism.



11-1. MSY-TP35VF MSY-TP50VF MSY-TP35VF2 MSY-TP50VF2

→ : Indicates the visible parts in the photos/figures.

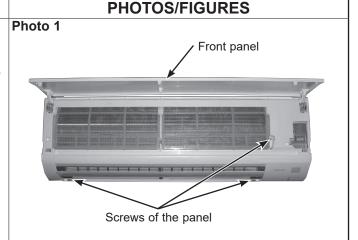
--->: Indicates the invisible parts in the photos/figures.

OPERATING PROCEDURE

NOTE: Turn OFF the power supply before disassembly.

1. Removing the panel

- (1) Remove the screw caps on the panel and remove the screws of the panel.
- (2) Pull the panel slightly toward you, and then remove the panel by pushing it upward.



OPERATING PROCEDURE

2. Removing the indoor power P.C. board and the electrical box

- (1) Remove the panel. (Refer to section 1.) Remove the right corner box.
- (2) Disconnect the following connectors: <Indoor electronic control P.C. board>

CN151 (Vane motor)

CN112 (Indoor coil thermistor)

CN10A (To the indoor power P.C. board)

- (3) Unhook the catch on the left side of the control P.C. board holder. Pull the control P.C. board holder as if opening the door at 90 degrees. Remove the control P.C. board holder from the axial rod on the electrical box.
- (4) Remove the screw of the V.A. clamp.
- (5) Remove the V.A. clamp and the indoor/outdoor connecting wire.
- (6) Remove the screws of the earth plate. (Photo 2)
- (7) Remove the indoor coil thermistor from the water cover.
- (8) Disengage the hooks of the water cover and remove the water cover.
- (9) Remove the screw of the electrical cover and remove the electrical cover.
- (10) Disconnect the CN211 (Indoor fan motor) from the indoor power P.C. board.
- (11) Remove the upper catch of the electrical box, and pull out the electrical box.
 - * To attach the electrical box, pass the wires connecting the indoor power P.C. board and the indoor electronic control P.C. board through A. Pass the lead wires of the fan motor through B as shown in the Photo 3.
- (12) Disconnect the following connectors and tabs. <Indoor power P.C. board>

CN201, TAB1, TAB2 (Terminal block)

CN20A (To the indoor electronic control P.C. board)

PHOTOS/FIGURES

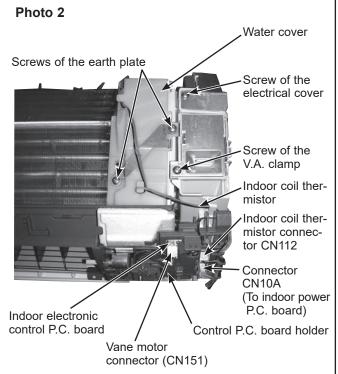
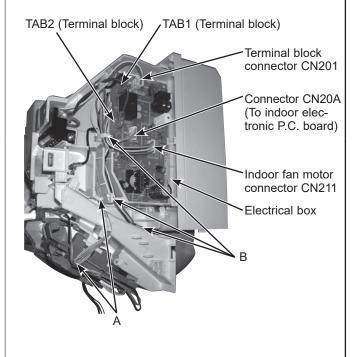


Photo 3



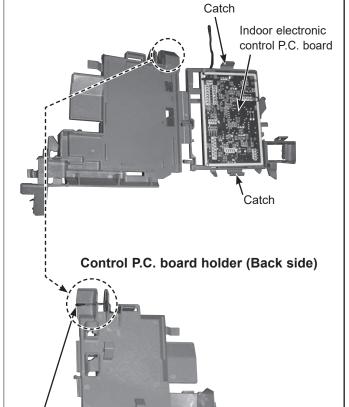
OPERATING PROCEDURE

3. Removing the indoor electronic control P.C. board

- Remove the panel. (Refer to section 1.) Remove the right corner box.
- (2) Disconnect the following connectors: <Indoor electronic control P.C. board> CN151 (Vane motor) CN112 (Indoor coil thermistor) CN10A (To the indoor power P.C. board)
- (3) Unhook the catch on the left side of the control P.C. board holder. Pull the control P.C. board holder as if opening the door at 90 degrees. Remove the control P.C. board holder from the axial rod on the electrical box.
- (4) Remove the room temperature thermistor from the back side of the control P.C. board holder.
- (5) Unhook the catches of the control P.C. board holder, and open the control P.C. board holder.
- (6) Remove the indoor electronic control P.C. board from the control P.C. board holder.

PHOTOS/FIGURES

Photo 4 Control P.C. board holder (Inside)



4. Removing the vane motor

- (1) Remove the panel. (Refer to section 1.) Remove the corner box.
- (2) Remove the control P.C. board holder, water cover and the electrical box. (Refer to section 2.)
- (3) Pull out the drain hose from the nozzle assembly and remove the nozzle assembly.
- (4) Remove the screws of the vane motor and remove the vane motor.
- (5) Disconnect the connector from the vane motor.

Photo 5

Room temperature thermistor

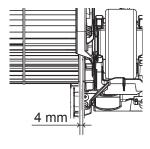


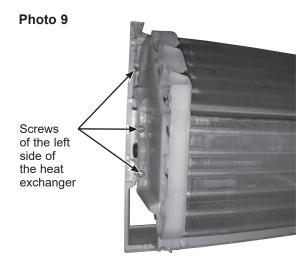
OPERATING PROCEDURE

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

- (1) Remove the panel. (Refer to section 1.) Remove the corner box.
- (2) Remove the control P.C. board holder, the water cover, the electrical box and the nozzle assembly. (Refer to section 2.)
- (3) Loosen the screw fixing the line flow fan.
- (4) Remove the screws fixing the motor bed.
- (5) Remove the motor bed together with the indoor fan motor and the motor band.
- (6) Disconnect the lead wire of the fan motor from the motor band.
- (7) Disengage 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.
- (9) Remove the screws fixing the left side and upper right side of the heat exchanger.
- (10) Lift the heat exchanger, and pull out the line flow fan to the lower-left.
 - * When attaching the line flow fan, screw the line flow fan so 4 mm gap is provided between the right end of the line flow fan and the right wall of the air passage of the box (Figure 1).

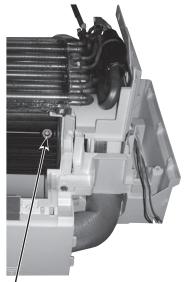
Figure 1





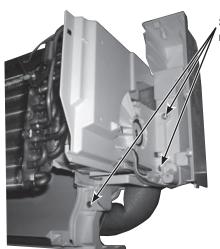
PHOTOS/FIGURES

Photo 6



Screw of the line flow fan

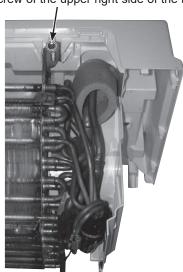
Photo 7



Screws of the motor bed

Photo 8

Screw of the upper right side of the heat exchanger



Fixing the indoor coil thermistor

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

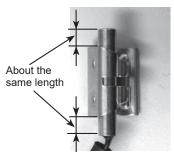
Clip shape



Holder shape



When fixing the indoor coil thermistor to the clip-shape/holder-shape part, the lead wire should point down.



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.

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