

TECHNICAL & SERVICE MANUAL

Series PLFY Ceiling Cassettes R410A

Indoor unit

[Model Name]

[Service Ref.]

PLFY-P05NFMU-E

PLFY-P05NFMU-ER1.TH

PLFY-P08NFMU-E

PLFY-P08NFMU-ER1.TH

PLFY-P12NFMU-E

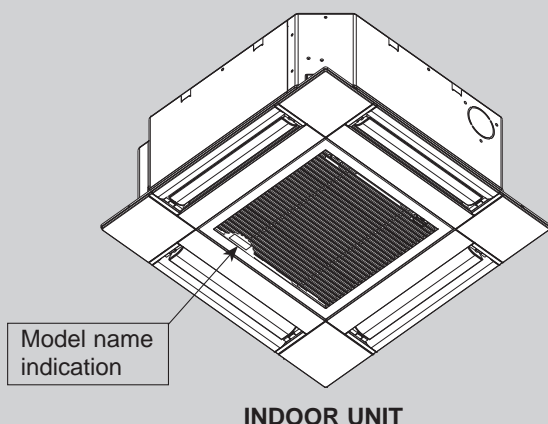
PLFY-P12NFMU-ER1.TH

PLFY-P15NFMU-E

PLFY-P15NFMU-ER1.TH

PLFY-P18NFMU-E

PLFY-P18NFMU-ER1.TH



CONTENTS

1. SAFETY PRECAUTION.....	2
2. PARTS NAMES AND FUNCTIONS.....	4
3. SPECIFICATIONS.....	5
4. 4-WAY AIR FLOW SYSTEM.....	8
5. OUTLINES AND DIMENSIONS.....	10
6. WIRING DIAGRAM.....	11
7. REFRIGERANT SYSTEM DIAGRAM.....	12
8. MICROPROCESSOR CONTROL.....	12
9. TROUBLESHOOTING.....	19
10. DISASSEMBLY PROCEDURE.....	27
11. REMOTE CONTROLLER.....	31

PARTS CATALOG (TCB130)

CITY MULTI

CAUTIONS RELATED TO NEW REFRIGERANT

Cautions for units utilizing refrigerant R410A

Do not use the existing refrigerant piping.

The old refrigerant and lubricant in the existing piping contains a large amount of chlorine which may cause the lubricant deterioration of the new unit.

Use “low residual oil piping”

If there is a large amount of residual oil (hydraulic oil, etc.) inside the piping and joints, deterioration of the lubricant will result.

Store the piping indoors, and keep both ends of the piping sealed until just before brazing. (Leave elbow joints, etc. in their packaging.)

If dirt, dust or moisture enters into refrigerant cycle, that can cause deterioration of refrigerant oil or malfunction of equipment components.

The refrigerant oil applied to flare and flange connections must be ester oil, ether oil or alkylbenzene oil in a small amount.

If large amount of mineral oil enters, that can cause deterioration of refrigerant oil, etc.

Charge refrigerant from liquid phase of gas cylinder.

If the refrigerant is charged in a gas phase, composition change may occur in refrigerant and the efficiency will be lowered.

Do not use refrigerant other than R410A.

If other refrigerant (R22, etc.) is used, chlorine in refrigerant can cause deterioration of refrigerant oil, etc.

Use a vacuum pump with a reverse flow check valve.

Vacuum pump oil may flow back into refrigerant cycle and that can cause deterioration of refrigerant oil, etc.

Use the following tools specifically designed for use with R410A refrigerant.

The following tools are necessary to use R410A refrigerant.

Tools for R410A	
Gauge manifold	Flare tool
Charge hose	Size adjustment gauge
Gas leak detector	Vacuum pump adaptor
Torque wrench	Electronic refrigerant charging scale
Micron gauge	

Handle tools with care.

If dirt, dust or moisture enters into refrigerant cycle, that can cause deterioration of refrigerant oil or malfunction of compressor.

Do not use a charging cylinder.

If a charging cylinder is used, the composition of refrigerant will change and the efficiency will be lowered.

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.

Ventilate the room if refrigerant leaks during operation. If refrigerant comes into contact with a flame, poisonous gases will be released.

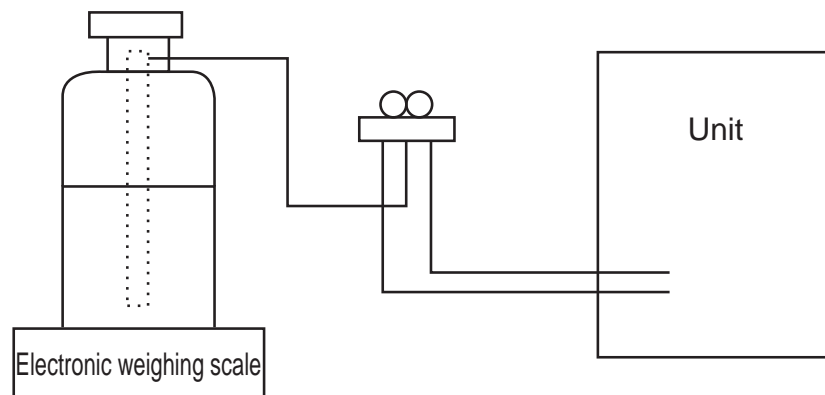
[1] Cautions for service

- (1) Perform service after recovering the refrigerant left in unit completely.
 - (2) Do not release refrigerant in the air.
 - (3) After completing service, charge the cycle with specified amount of refrigerant.
 - (4) When performing service, install a filter drier simultaneously.
- Be sure to use a filter drier for new refrigerant.

[2] Additional refrigerant charge

When charging directly from cylinder

- Check that cylinder for R410A on the market is a syphon type.
- Charging should be performed with the cylinder of syphon standing vertically. (Refrigerant is charged from liquid phase.)

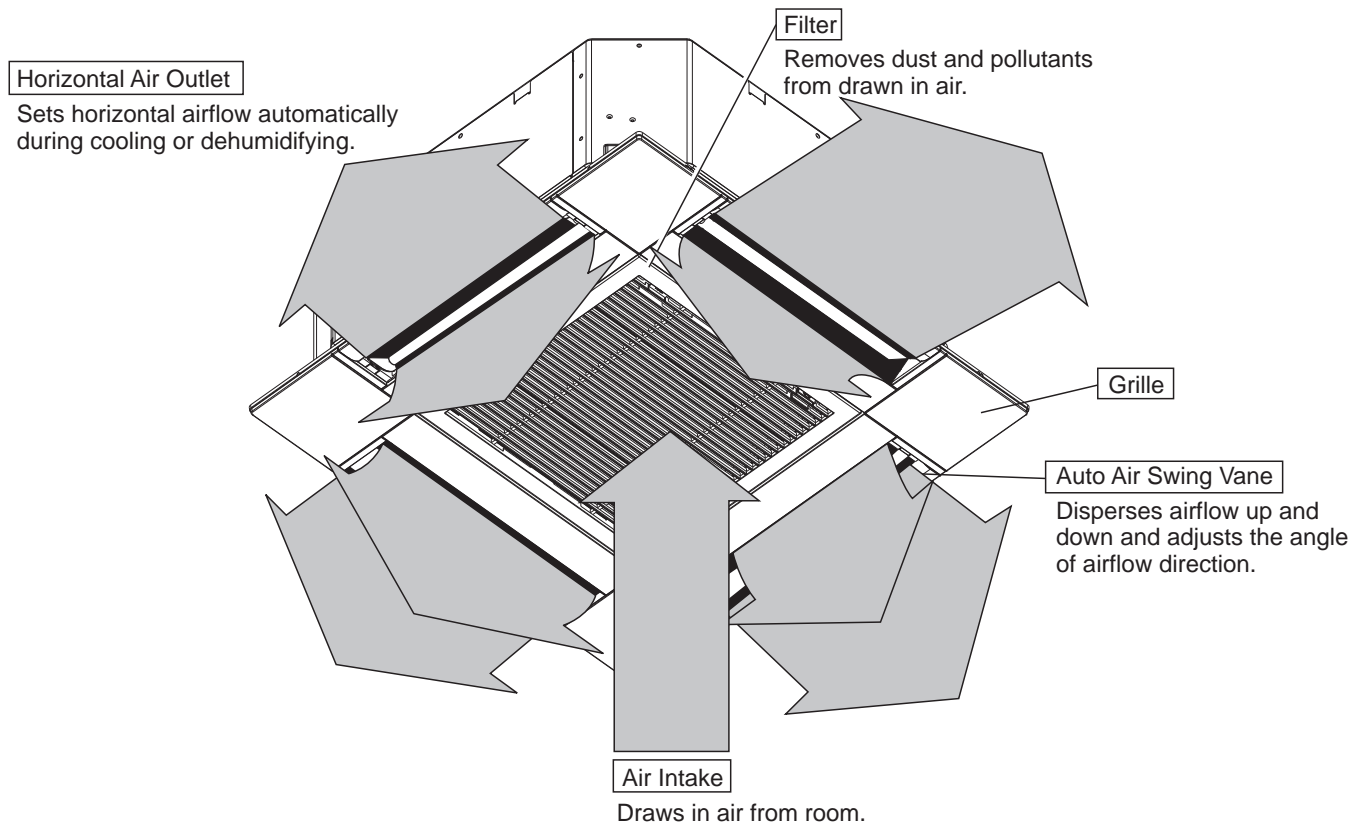


[3] Service tools

Use the below service tools as exclusive tools for R410A refrigerant.

No.	Tool name	Specifications
①	Gauge manifold	<ul style="list-style-type: none">· Only for R410A· Use the existing fitting specifications. (UNF1/2)· Use high-tension side pressure of 768.7 PSIG [5.3 MPa-G] or over.
②	Charge hose	<ul style="list-style-type: none">· Only for R410A· Use pressure performance of 738.2 PSIG [5.09 MPa-G] or over.
③	Electronic weighing scale	—
④	Gas leak detector	<ul style="list-style-type: none">· Use the detector for R134a, R407C or R410A.
⑤	Adaptor for reverse flow check	<ul style="list-style-type: none">· Attach on vacuum pump.
⑥	Refrigerant charge base	—
⑦	Refrigerant cylinder	<ul style="list-style-type: none">· Only for R410A· Top of cylinder (Pink)· Cylinder with syphon
⑧	Refrigerant recovery equipment	—
⑨	Micron gauge	—

2-1. Indoor Unit



2-2. Wired Remote Controller <PAR-41MAA> <PAC-YT53CRAU>

Wired remote controller function

The functions which can be used are restricted according to each model.

○ : Supported ✕ : Unsupported

	Function		PAR-41MAA		PAC-YT53CRAU
			Slim	City multi	
Body	Product size H × W × D	(mm) (inch)	(120 × 120 × 14.5) (4-3/4 × 4-3/4 × 9/16)		(120 × 70 × 14.5) (4-3/4 × 2-3/4 × 9/16)
	LCD		Full Dot LCD		Partial Dot LCD
	Backlight		○		○
Energy-saving	Energy-saving operation schedule		○	✕	✕
	Automatic return to the preset temperature		○		✕
Restriction	Setting the temperature range restriction		○		○
Function	Operation lock function		○		○
	Weekly timer		○		✕
	ON/OFF timer		○		✕
	High Power		○	✕	✕
	Manual vane angle		○		✕

3-1. SPECIFICATIONS

Service Ref.			PLFY-P05NFMU-ER1.TH	PLFY-P08NFMU-ER1.TH	PLFY-P12NFMU-ER1.TH	PLFY-P15NFMU-ER1.TH	PLFY-P18NFMU-ER1.TH
power source			single phase, 208/230V, 60 Hz				
cooling capacity *1		kW	1.4	2.3	3.5	4.3	5.2
	*1	BTU/h	5,000	8,000	12,000	15,000	18,000
	Power input	kW	0.02	0.02	0.02	0.03	0.04
	Current input	A	0.19	0.22	0.23	0.28	0.40
Heating capacity *3		kW	1.6	2.6	3.9	4.9	5.8
	*3	BTU/h	5,600	9,000	13,500	17,000	20,000
	Power input	kW	0.02	0.02	0.02	0.03	0.04
	Current input	A	0.14	0.17	0.18	0.23	0.35
External finish			Galvanized steel sheet				
External dimension		mm	208×570×570				
H × W × D		in	8-3/16"×22-7/16"×22-7/16"				
Net weight		kg (lb)	13.1 (28.9)	13.1 (28.9)	14.2(31.3)	14.2(31.3)	14.2(31.3)
Decoration panel	model		SLP-18FAU				
	External finish		Munsell 1.0Y 9.2/0.2				
	Dimension	mm	10 × 625 × 625				
	H × W × D	in	13/32"×24-19/32"×24-19/32"				
	Net weight	kg (lb)	2.4(5.3)				
Heat exchanger			Cross fin (Aluminum fin and copper tube)				
FAN	Type		Turbo fan × 1				
	External static pressure		0 Pa (0 mmH ₂ O)				
	Motor type		DC motor				
	Motor output	kW	0.05				
	Driving mechanism		Direct driven				
	Airflow rate	m ³ /min	6.5-7.5-8.0	6.5-8.0-9.0	7.0-8.0-9.5	7.5-9.0-11.0	9.0-11.0-13.0
		L/s	108-125-133	108-133-150	117-133-158	125-150-183	150-183-217
cfm		230-265-280	230-280-315	245-280-335	265-315-390	315-390-460	
Noise level (Low-Mid-High) (measured in anechoic room)		dB <A>	26-28-30	26-30-33	26-30-34	28-33-39	33-39-43
Insulation material			PS				
Air filter			PP honeycomb fabric (long life type)				
Protection device			Fuse				
Refrigerant control device			LEV				
Connectable outdoor unit			R410A CITY MULTI				
Diameter of refrigerant pipe	Liquid	mm (in)	ø6.35 (ø1/4") Flare				
	Gas	mm (in)	ø12.7 (ø1/2") Flare				
Field drain pipe size		mm (in)	O.D. 32 mm (1-1/4") (PVC pipe VP-25 connectable)				
Standard attachment			Installation manual, Instruction book				
Remark	Optional parts		Decoration panel : SLP-18FAU, SLP-18FAEU *PLFY-P NFMU-ER1 should be used together with decoration panel.				
	Installation		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.				

*1 Nominal cooling condition indoor : 27°CDB/19°CWB (81°FDB/66°FWB) Outdoor : 35°CDB (95°FDB) Pipe length : 7.5m (24-9/16 ft) Level difference : 0m (0 ft)		*2 Nominal heating condition 20°CDB (68°FDB) 7°CDB/6°CWB (45°FDB/43°FWB) 7.5 m (24-9/16 ft) 0 m (0 ft)	Unit converter kcal= kW × 860 BTU/h =3,412 cfm = K/min × 35.31 lb = kg/0.4536
Notes: 1. Nominal conditions *1 and *2 are subject to JIS B8615-1. 2. Due to continuing improvement, above specification may be subject to change without notice.			

3-2. ELECTRICAL PARTS SPECIFICATIONS

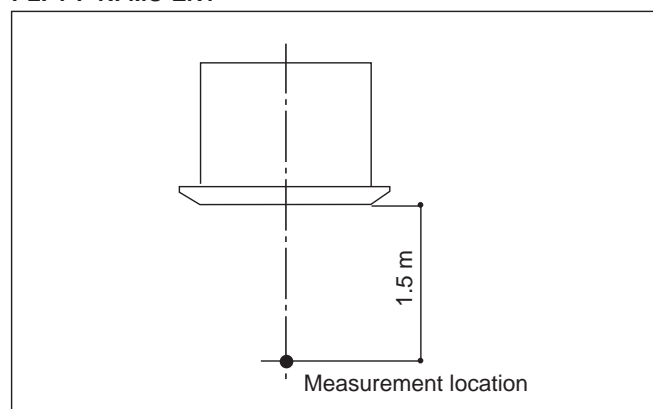
Parts name	Service ref.	Symbol	PLFY-P05NFMU-ER1.TH	PLFY-P08NFMU-ER1.TH	PLFY-P12NFMU-ER1.TH	PLFY-P15NFMU-ER1.TH	PLFY-P18NFMU-ER1.TH
Thermistor (Room temperature detection)	TH21		Resistance 30°F/15.8Ω, 50°F/9.6Ω, 70°F/6.0Ω, 80°F/4.8Ω, 90°F/3.9Ω, 100°F/3.2Ω				
Thermistor (Pipe temperature detection/Liquid)	TH22		Resistance 30°F/15.8Ω, 50°F/9.6Ω, 70°F/6.0Ω, 80°F/4.8Ω, 90°F/3.9Ω, 100°F/3.2Ω				
Thermistor (Pipe temperature detection/Gas)	TH23		Resistance 30°F/15.8Ω, 50°F/9.6Ω, 70°F/6.0Ω, 80°F/4.8Ω, 90°F/3.9Ω, 100°F/3.2Ω				
Fuse (Indoor controller board)	FUSE		250V 6.3A				
Fan motor	MF		OUTPUT 50 W				
Vane motor	MV		MSBPC20M32 (green label)/MSBPC20M33 (blue label) DC12V 300Ω/phase				
Drain pump	DP		PMD-12D13ME INPUT 3.9W (DC 13V) 24 ℓ /Hr				
Drain float switch	FS		Open/short detection				
Linear expansion valve [coil]	LEV		DC12V Stepping motor drive, Port dimension $\phi 5.2$ (0–2000pulse) EDM-40YGME				
Power supply terminal block	TB2		(L1, L2) Rated to 330V 30A*				
Transmission terminal block	TB5		(M1, M2, S) Rated to 250V 20A*				
MA remote controller terminal block	TB15		(1, 2) Rated to 250V 10A*				

* Refer to WIRING DIAGRAM for the supplied voltage.

3-3 SOUND PRESSURE LEVEL

PLFY-P-NFMU-ER1

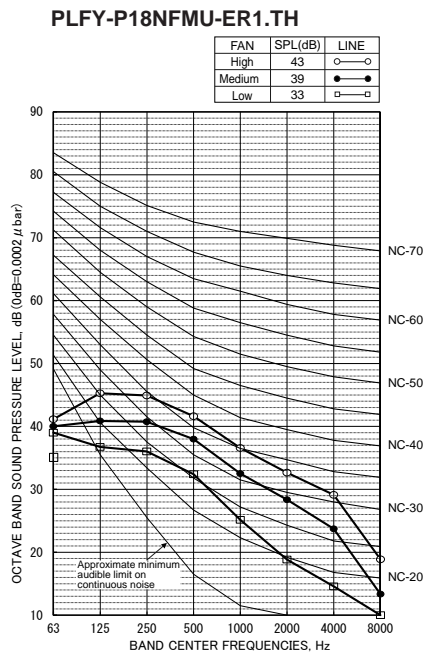
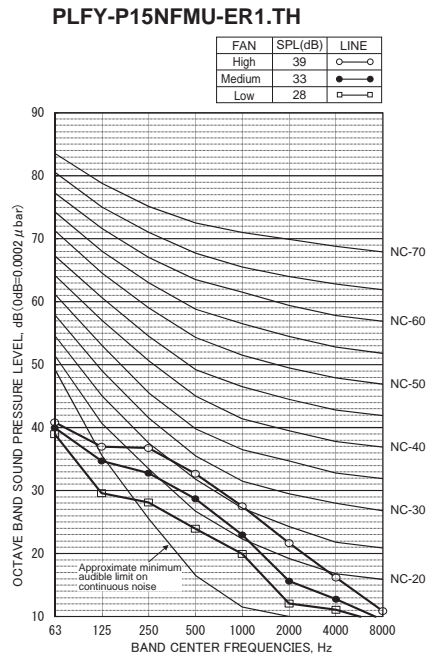
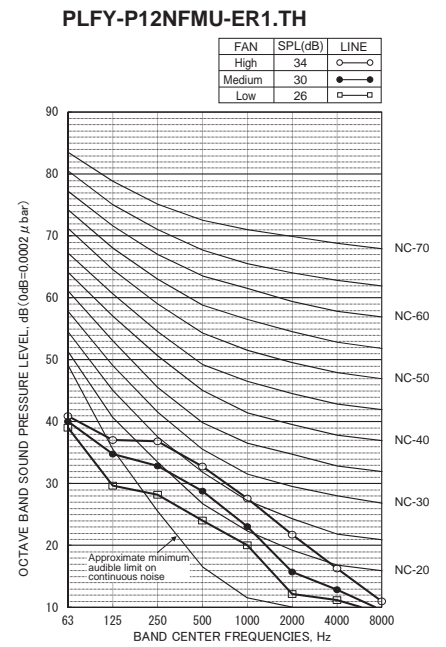
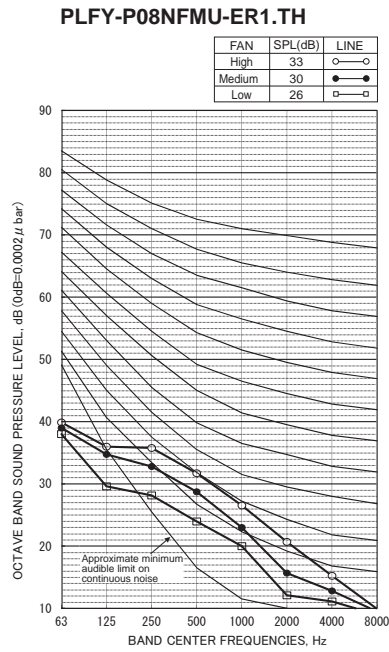
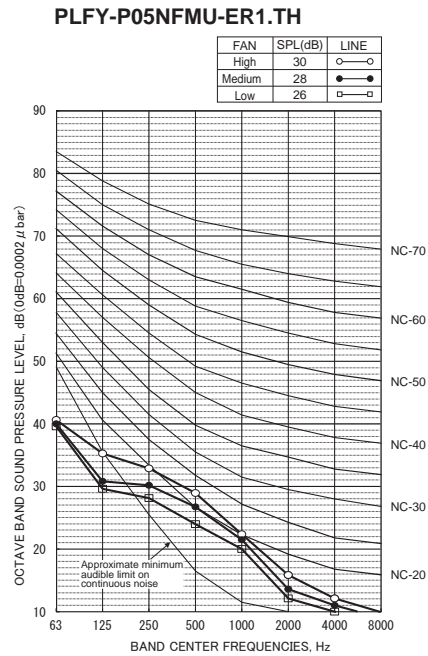
Sound pressure level at anechoic room : Low-Mid-High



Service Ref.	Sound pressure level dB (A)
PLFY-P05NFMU-ER1.TH	26-28-30
PLFY-P08NFMU-ER1.TH	26-30-33
PLFY-P12NFMU-ER1.TH	26-30-34
PLFY-P15NFMU-ER1.TH	28-33-39
PLFY-P18NFMU-ER1.TH	33-39-43

Note: Measured in anechoic room.

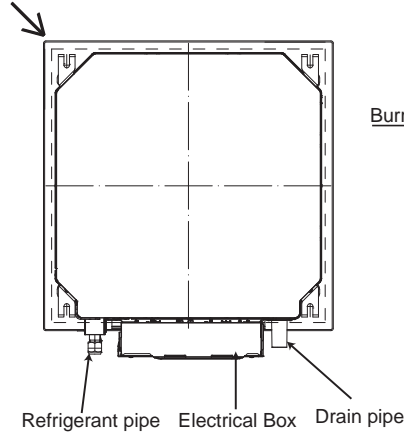
3-4. NOISE CRITERION CURVES



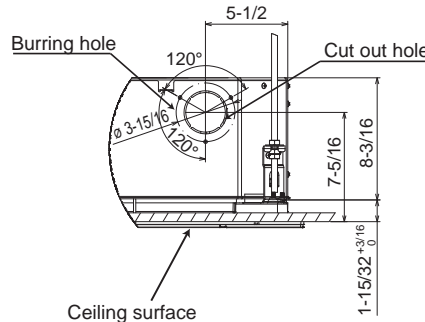
4-1. FRESH AIR INTAKE (Location for installation)

At the time of installation, use the duct holes (cut out) located at the positions shown in following diagram, as and when required.

Fresh air intake



Detail drawing of fresh air intake



4-2. FRESH AIR INTAKE AMOUNT & STATIC PRESSURE CHARACTERISTICS

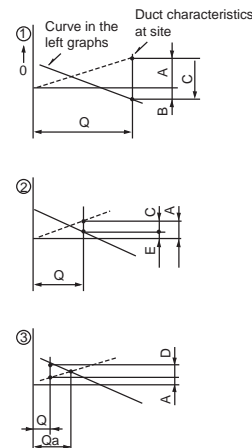
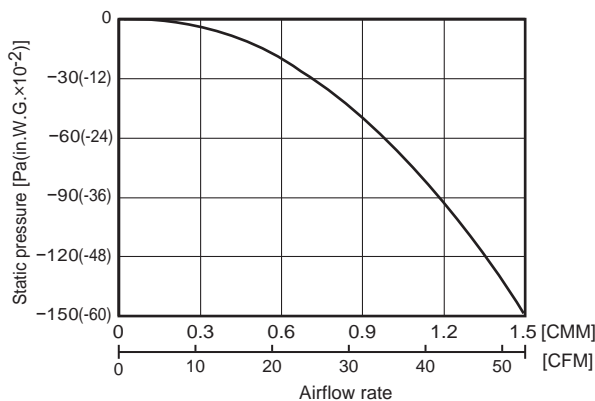
PLFY-P05NFMU-ER1.TH
PLFY-P15NFMU-ER1.TH

PLFY-P08NFMU-ER1.TH
PLFY-P18NFMU-ER1.TH

PLFY-P12NFMU-ER1.TH

Taking air into the unit

How to read curves



Q...Designed amount of fresh air intake
<CMM (CFM)>
A...Static pressure loss of fresh air intake
duct system with air flow amount Q
<Pa (in.W.G.×10⁻²)>
B...Forced static pressure at air conditioner
inlet with air flow amount Q
<Pa (in.W.G.×10⁻²)>
C...Static pressure of booster fan with air
flow amount Q <Pa (in.W.G.×10⁻²)>
D...Static pressure loss increase amount of
fresh air intake duct system for air flow
amount Q <Pa (in.W.G.×10⁻²)>
E...Static pressure of indoor unit with air
flow amount Q <Pa (in.W.G.×10⁻²)>
Qa...Estimated amount of fresh air intake
without D <CMM (CFM)>

NOTE: Fresh air intake amount should be 10% or less of whole air amount to prevent dew dripping.

4-3. OPERATION IN CONJUNCTION WITH DUCT FAN (Booster fan)

• Whenever the indoor unit operates, the duct fan also operates.

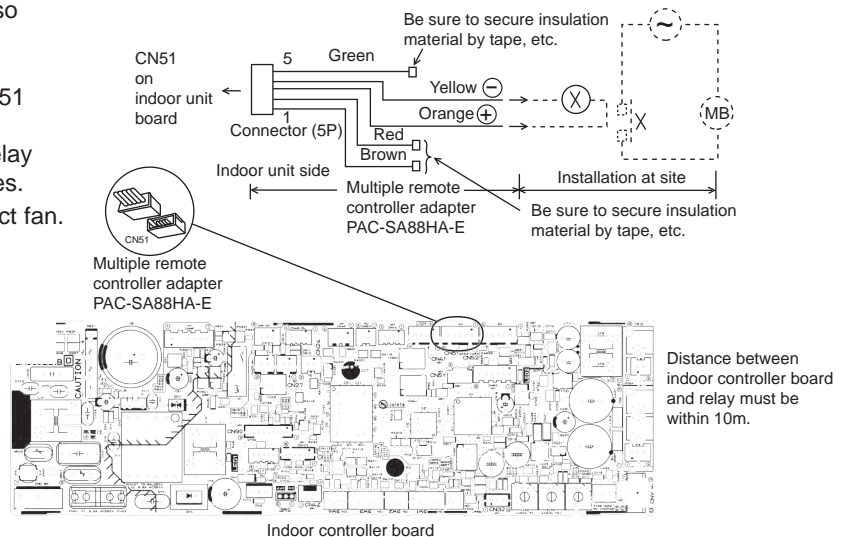
- (1) Connect the optional multiple remote controller adapter (PAC-SA88HA-E) to the connector CN51 on the indoor controller board.

- (2) Drive the relay after connecting the 12 V DC relay between the Yellow and Orange connector wires.

MB: Electromagnetic switch power relay for duct fan.

X: Auxiliary relay

(For 12 V DC, coil rating: 1.0 W or below)

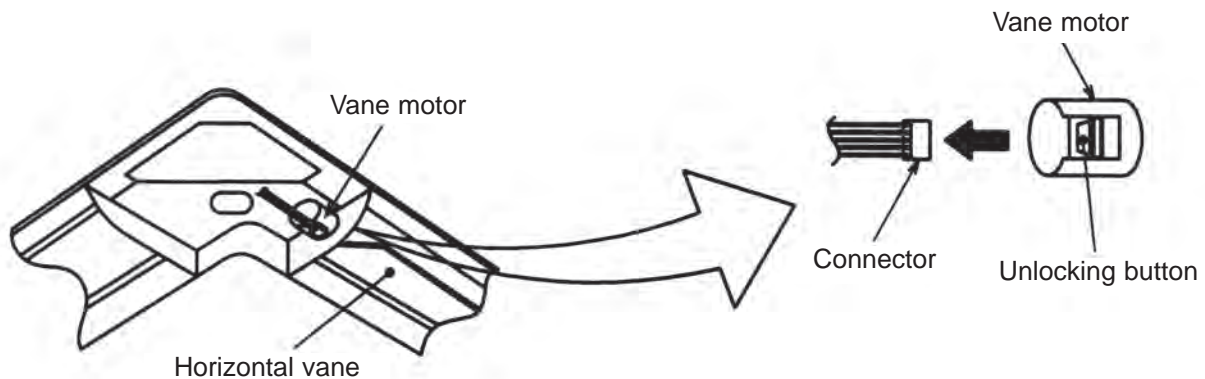


4-4. FIXING HORIZONTAL VANE

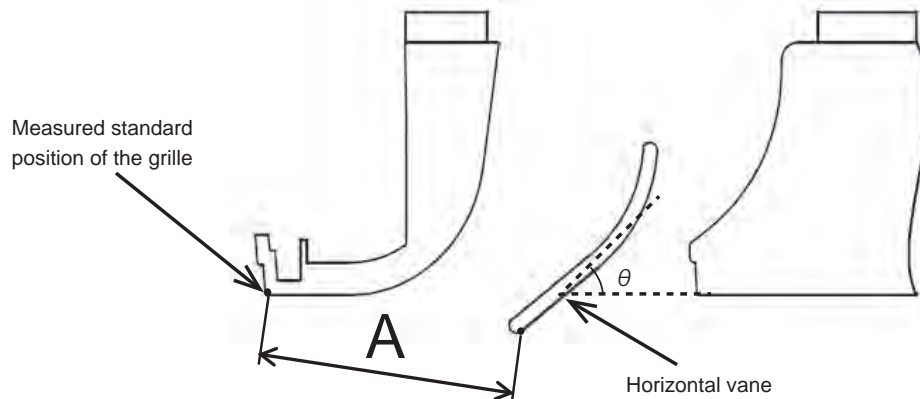
Horizontal vane of each air outlet can be fixed according to the environment where it is installed.

Setting procedures

- 1) Turn off a main power supply (Turn off a breaker).
- 2) Disconnect the vane motor connector of the direction of the arrow with pressing the unlocking button as shown in figure below.
Insulate the disconnected connector with the plastic tape.



- 3) Set the vertical vane of the air outlet by hand slowly within the range in the table below.



<Set range>

Standard of horizontal position	Angle $\theta = 21^\circ$ (Horizontal)	Angle $\theta = 24^\circ$	Angle $\theta = 39^\circ$	Angle $\theta = 42^\circ$	Angle $\theta = 45^\circ$ (Downward)
Dimension A inch (mm)	1-17/32 (39)	1-39/64 (41)	1-27/32(47)	1-57/64(48)	1-57/64(49)

Note: Dimension between 1-17/32 (39) and 1-57/64(49) can be arbitrarily set.

Caution 	Do not set the dimension out of the range.
	Erroneous setting could cause dew drips or malfunction of unit.

OUTLINES AND DIMENSIONS

PLFY-P12NFMU-ER1.TH

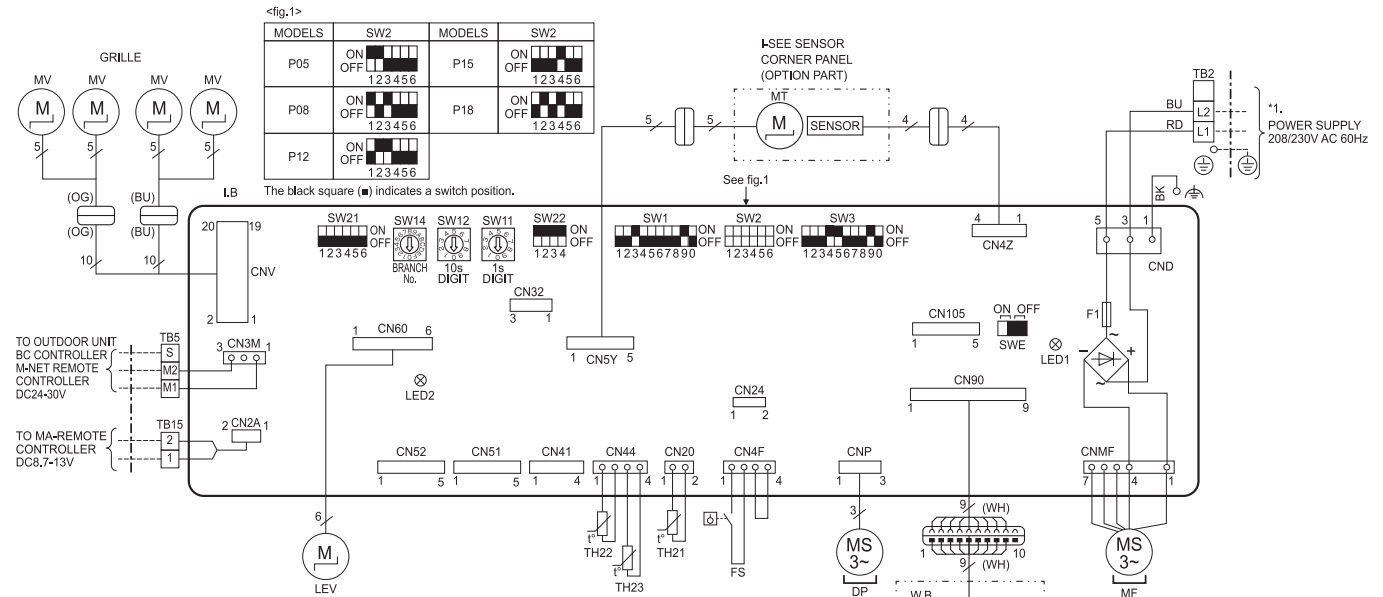
Unit: inch(mm)



PLFY-P05NFMU-ER1.TH
PLFY-P15NFMU-ER1.TH

PLFY-P08NFMU-ER1.TH
PLFY-P18NFMU-ER1.TH

PLFY-P12NFMU-ER1.TH



[LEGEND]

SYMBOL	NAME
I.B	INDOOR CONTROLLER BOARD
CN24	EXTERNAL HEATER
CN32	REMOTE SWITCH
CN41	HA TERMINAL-A
CN51	CENTRALLY CONTROL
CN52	REMOTE INDICATION
CN105	IT TERMINAL
F1	FUSE (UL 6.3A 250V AC)
LED1	POWER SUPPLY (I.B)
LED2	POWER SUPPLY (MA-REMOTE CONTROLLER)
SW1	MODE SELECTION
SW2	CAPACITY CODE
SW3	MODE SELECTION
SW11	ADDRESS SETTING ONES DIGIT
SW12	ADDRESS SETTING TENS DIGIT
SW14	BRANCH No.
SW21	CEILING HEIGHT SELECTOR
SW22	PAIR NO. SETTING
SWE	DRAIN PUMP(TEST MODE)
DP	DRAIN PUMP
LEV	LINEAR EXPANSION VALVE
MF	FAN MOTOR
MV	VANE MOTOR
FS	FLOAT SWITCH
TB2	TERMINAL POWER SUPPLY
TB5	BLOCK TRANSMISSION
TB15	MA-REMOTE CONTROLLER
TH21	ROOM TEMP. THERMISTOR
TH22	PIPE TEMP. THERMISTOR/LIQUID
TH23	PIPE TEMP. THERMISTOR/GAS
OPTION PART	
W.B	WIRELESS REMOTE CONTROLLER BOARD
BZ	BUZZER
LED1	OPERATION (GREEN)
LED2	STAND BY (ORANGE)
RU	RECEIVING UNIT
SW1	EMERGENCY OPERATION(HEAT)
SW2	EMERGENCY OPERATION(COOL)
MT	I-SEE SENSOR MOTOR

Notes:

- At servicing for outdoor unit, always follow the wiring diagram of outdoor unit.
- In case of using MA-Remote controller, please connect to TB15.
(Remote controller wire is non-polar.)
- In case of using M-NET, please connect to TB5. (Transmission line is non-polar.)
- Symbol [S] of TB5 is the shield wire connection.
- Symbols used in wiring diagram above are, [] : terminal block, [] : connector.
- The setting of the SW2 dip switches differs in the capacity. For the detail, refer to the fig.1.
- Make sure to turn off the indoor and the outdoor units before replacing indoor controller board.

*1. Use copper supply wires.
Utilisez des fils d'alimentation en cuivre.

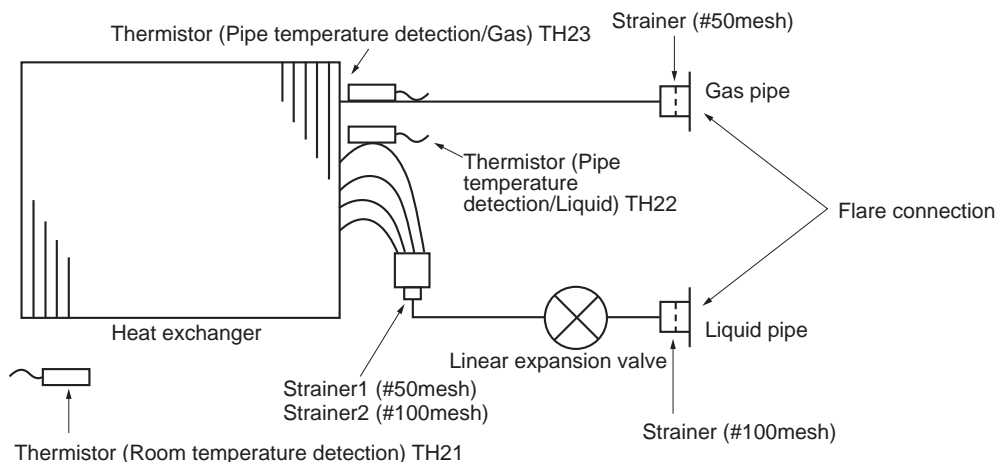
7

REFRIGERANT SYSTEM DIAGRAM

PLFY-P05NFMU-ER1.TH
PLFY-P15NFMU-ER1.TH

PLFY-P08NFMU-ER1.TH
PLFY-P18NFMU-ER1.TH

PLFY-P12NFMU-ER1.TH



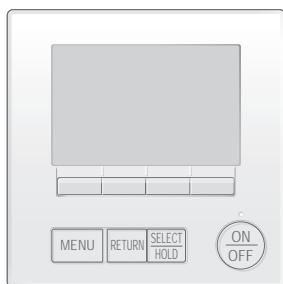
Unit: inch (mm)

Gas pipe	$\phi 1/2(12.7)$
Liquid pipe	$\phi 1/4(6.35)$

8

MICROPROCESSOR CONTROL

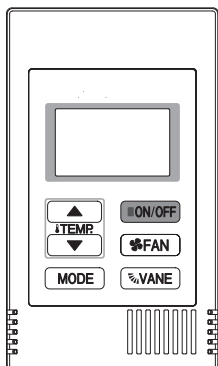
INDOOR UNIT CONTROL 8-1. COOL OPERATION



<How to operate>

- ① Press ON/OFF button.
- ② Press [F1] button to display COOL.
- ③ Press [F2] [F3] button to set the set temperature.




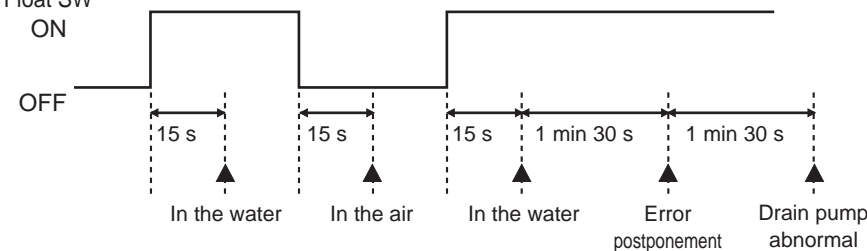
NOTE: The settable temperature range varies with the model of outdoor units and remote controller.



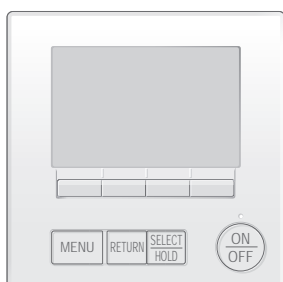
<How to operate>

- ① Press POWER ON/OFF button.
- ② Press the operation MODE button to display COOL.
- ③ Press the TEMP. button to set the set temperature.

NOTE: The set temperature changes 1°F when the ∇ or Δ button is pressed one time. Cooling 67 to 87°F

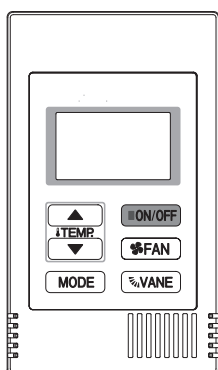
Control Mode	Control Details	Remarks																													
1. Temperature adjustment function	<div>1-1. Determining temperature adjustment function (Function to prevent restarting for 3 minutes)<ul style="list-style-type: none">Room temperature \geq Set temperature + 2°F ...Thermo-ONRoom temperature \leq Set temperature ...Thermo-OFF</div> <div>1-2. Anti-freeze control<ul style="list-style-type: none">Condition to detect When the pipe temperature detection thermistor/liquid (TH22) detects 32°F or less in 16 minutes from thermo-ON, the anti-freeze control initiates, and the unit enters to the thermo-OFF.Condition to release The timer which prevents reactivating is set for 3 minutes, and anti-freeze control is cancelled when any one of the following conditions has been satisfied:<ul style="list-style-type: none">① Pipe temperature detection thermistor/liquid (TH22) reaches 50°F or above.② The condition of thermo-OFF has been completed by the thermostat.③ The operation has changed to a mode other than COOLING.</div>	<ul style="list-style-type: none">The ON/OFF commands by the indoor unit thermostatic control are not an ON/OFF commands to the compressor but an open/close commands to the linear expansion valve. (The compressor stops only when the thermostatic control for all the indoor units connected to the same outdoor unit turns OFF.)																													
2. Fan	<div>By the remote controller setting (switch of 4 speeds+Auto)</div> <table><tr><th>Type</th><th>Fan speed notch</th></tr><tr><td>3 speeds + Auto type</td><td></td></tr></table> <div>When [Auto] is set, fan speed is changed depending on the value of: $\Delta T = \text{Room temperature} - \text{Set temperature}$</div> <table><tr><td>High</td><td>-----</td><td>-----</td><td>-----</td><td>-----</td></tr><tr><td>Med2</td><td>-----</td><td>-----</td><td>-----</td><td>-----</td></tr><tr><td>Med1</td><td>-----</td><td>-----</td><td>-----</td><td>-----</td></tr><tr><td>Low</td><td>-----</td><td>-----</td><td>-----</td><td>-----</td></tr><tr><td></td><td>1.8°F</td><td>3.15°F</td><td>5.4°F</td><td>ΔT</td></tr></table>	Type	Fan speed notch	3 speeds + Auto type		High	-----	-----	-----	-----	Med2	-----	-----	-----	-----	Med1	-----	-----	-----	-----	Low	-----	-----	-----	-----		1.8°F	3.15°F	5.4°F	ΔT	
Type	Fan speed notch																														
3 speeds + Auto type																															
High	-----	-----	-----	-----																											
Med2	-----	-----	-----	-----																											
Med1	-----	-----	-----	-----																											
Low	-----	-----	-----	-----																											
	1.8°F	3.15°F	5.4°F	ΔT																											
3. Drain pump	<div>3-1. Drain pump control<ul style="list-style-type: none">The drain pump will always run when the unit is in COOL or DRYING mode. (Regardless of the thermo ON/OFF)Whenever the operation is changed over to the other modes (including Stop), the drain pump will stop pumping after approximately 3 minutes.</div> <div>Float switch control<ul style="list-style-type: none">Float switch control judges whether the sensor is in the air or in the water by turning the float switch ON/OFF. In the water: Detected that the float switch is ON for 15 seconds. In the air: Detected that the float switch is OFF for 15 seconds</div> <div>Float SW ON OFF</div> 																														
4. Vane (up/down vane change)	<div>(1) The initial vane setting for COOL mode will be the horizontal position.</div> <div>(2) Vane position: Horizontal →Downward A →Downward B →Downward C→Downward D→Swing→Auto</div> <div>(3) Restriction of the downward vane setting If the vane position is set to Downward A/B/C/D in [Med1], [Med2], or [Low], the vane will return to the horizontal position after 1 hour has passed.</div>	<ul style="list-style-type: none">"1h" appears on the wired remote controller.																													

8-2. DRYING OPERATION



<How to operate>

- ① Press ON/OFF button.
- ② Press [F1] button to display DRYING.
- ③ Press [F2] [F3] button to set the set temperature.

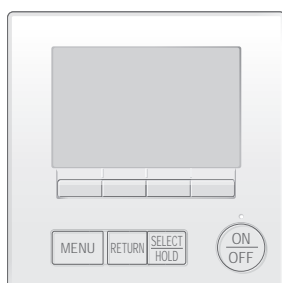


<How to operate>

- ① Press POWER ON/OFF button.
 - ② Press the operation MODE button to display DRYING.
 - ③ Press the TEMP. button to set the set temperature.
- NOTE:** The set temperature changes 1°F when the ∇ or Δ button is pressed one time. Dry 67 to 87°F

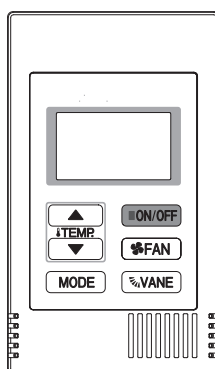
Control Mode	Control Details	Remarks																															
1. Temperature adjustment function	1-1. Determining temperature adjustment function (Function to prevent restarting for 3 minutes) Setting the Dry thermo by the thermostat signal and the room temperature (TH21). Dry thermo-ON Room temperature ≥ Set temperature + 2°F Dry thermo-OFF Room temperature ≤ Set temperature																																
	<table><tr><td rowspan="2">Room temperature</td><td colspan="2">3 minutes passed since starting operation</td><td rowspan="2">Dry thermo-ON time (min)</td><td rowspan="2">Dry thermo-OFF time (min)</td></tr><tr><td>Thermostat signal</td><td>Room temperature (T1)</td></tr><tr><td rowspan="4">Over 64°F</td><td rowspan="4">ON</td><td>T1 ≥ 83°F</td><td>9</td><td>3</td></tr><tr><td>83°F > T1 ≥ 79°F</td><td>7</td><td>3</td></tr><tr><td>79°F > T1 ≥ 75°F</td><td>5</td><td>3</td></tr><tr><td>75°F > T1</td><td>3</td><td>3</td></tr><tr><td></td><td>OFF</td><td>Unconditional</td><td>3</td><td>10</td></tr><tr><td>Below 64°F</td><td colspan="3">Dry thermo OFF</td><td></td></tr></table>	Room temperature	3 minutes passed since starting operation		Dry thermo-ON time (min)	Dry thermo-OFF time (min)	Thermostat signal	Room temperature (T1)	Over 64°F	ON	T1 ≥ 83°F	9	3	83°F > T1 ≥ 79°F	7	3	79°F > T1 ≥ 75°F	5	3	75°F > T1	3	3		OFF	Unconditional	3	10	Below 64°F	Dry thermo OFF				
	Room temperature		3 minutes passed since starting operation				Dry thermo-ON time (min)	Dry thermo-OFF time (min)																									
		Thermostat signal	Room temperature (T1)																														
	Over 64°F	ON	T1 ≥ 83°F	9	3																												
			83°F > T1 ≥ 79°F	7	3																												
			79°F > T1 ≥ 75°F	5	3																												
			75°F > T1	3	3																												
		OFF	Unconditional	3	10																												
	Below 64°F	Dry thermo OFF																															
1-2. Anti-freeze control No control function																																	
2. Fan	Indoor fan operation controlled depends on the compressor conditions.																																
	<table><tr><td>Dry thermo</td><td colspan="2">Fan speed notch</td></tr><tr><td>ON</td><td colspan="2">[Low]</td></tr><tr><td>OFF</td><td>Excluding the following</td><td>Stop</td></tr><tr><td></td><td>Room temp. < 64°F</td><td>[Low]</td></tr></table>	Dry thermo	Fan speed notch		ON	[Low]		OFF	Excluding the following	Stop		Room temp. < 64°F	[Low]																				
	Dry thermo	Fan speed notch																															
	ON	[Low]																															
	OFF	Excluding the following	Stop																														
	Room temp. < 64°F	[Low]																															
Note: Fan speed change is not allowed during DRYING operation.																																	
3. Drain pump	Operates as it would in COOL operation.																																
4. Vane (up/down vane change)	Settings are the same in DRYING operation as they are in COOL operation.																																

8-3. FAN OPERATION






<How to operate>

- ① Press ON/OFF button.
- ② Press [F1] button to display FAN.

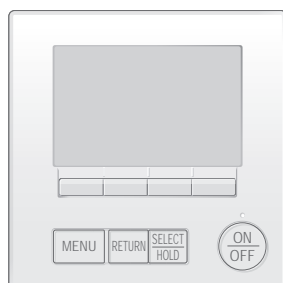


<How to operate>

- ① Press POWER ON/OFF button.
- ② Press the operation MODE button to display FAN.

Control Mode	Control Details	Remarks				
1. Temperature adjustment function	<div>Set by remote controller.</div> <table><tr><th>Type</th><th>Fan speed notch</th></tr><tr><td>3 speeds + Auto type</td><td></td></tr></table> <div>When [Auto] is set, fan speed becomes [Low].</div>	Type	Fan speed notch	3 speeds + Auto type		
Type	Fan speed notch					
3 speeds + Auto type						
2. Drain pump	<div>2-1. Drain pump control</div> <div>The drain pump turns ON for the specified amount of time when any of the following conditions has been satisfied:</div> <div>① ON for 3 minutes after the operation mode is switched from COOL or DRYING to another operation mode (FAN).</div> <div>② ON for 6 minutes after the float switch is submerged in the water when the float switch control judges the sensor is in the water.</div> <div>2-2. Float switch control</div> <div>• Float switch control judges whether the sensor is in the air or in the water by turning the float switch ON/OFF.</div> <div>In the water : Detected that the float switch is ON for 15 seconds.</div> <div>In the air : Detected that the float switch is OFF for 15 seconds.</div>	<div>• Operates as it would in COOL operation.</div>				
3. Vane (up/down vane change)	Same as the control performed during the COOL operation, but with no restriction on the vane's downward blow setting					

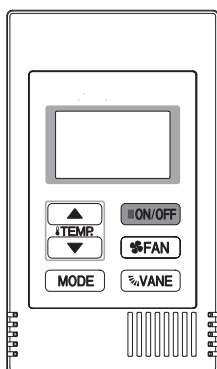
8-4. HEAT OPERATION



<How to operate>



- ① Press ON/OFF button.
- ② Press [F1] button to display HEAT.
- ③ Press [F2] [F3] button to set the set temperature.

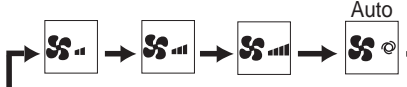
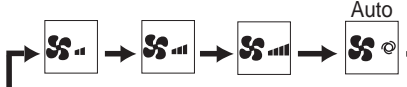
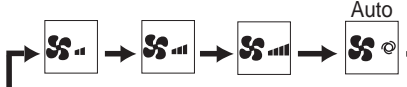
NOTE: The settable temperature range varies with the model of outdoor units and remote controller.



<How to operate>

- ① Press POWER ON/OFF button.
- ② Press the operation MODE button to display HEAT.
- ③ Press the TEMP. button to set the set temperature.

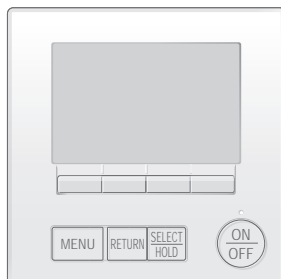
NOTE: The set temperature changes 1°F when the  or  button is pressed one time. Heating 63 to 83°F

Control Mode	Control Details	Remarks				
1. Temperature adjustment function	1-1. Determining temperature adjustment function (Function to prevent restarting for 3 minutes) <ul style="list-style-type: none">Room temperature \leq Set temperature -2°F ...Thermo-ONRoom temperature \geq Set temperature ...Thermo-OFF					
2. Fan	<p>By the remote controller setting (switch of 4 speeds+Auto)</p> <table><tr><th>Type</th><th>Fan speed notch</th></tr><tr><td>3 speeds + Auto type</td><td></td></tr></table> <p>When [Auto] is set, fan speed is changed depending on the value of: $\Delta T = \text{Set temperature} - \text{Room temperature}$</p> <p>Give priority to under-mentioned controlled mode</p> <p>2-1. Hot adjust mode</p> <p>2-2. Residual heat exclusion mode</p> <p>2-3. Thermo-OFF mode (When the compressor off by the temperature adjustment function)</p> <p>2-4. Cool air prevention mode (Defrosting mode)</p>	Type	Fan speed notch	3 speeds + Auto type		
Type	Fan speed notch					
3 speeds + Auto type						



Control Mode	Control Details	Remarks												
	<div>2-1. Hot adjust mode</div> <div>The fan controller becomes the hot adjuster mode for the following conditions.</div> <div><div>① When starting the HEAT operation</div><div>② When the temperature adjustment function changes from OFF to ON.</div><div>③ When release the HEAT defrosting operation</div></div> <div><p>A: Hot adjust mode starts. B: 5 minutes have passed since the condition A or the indoor liquid pipe temperature reached 86°F or more. C: 5 minutes have passed since the condition A or the indoor liquid pipe temperature reached 95°F or more. D: 2minutes have passed since the condition C. (Terminating the hot adjust mode)</p><table><tr><th colspan="2" rowspan="2"></th><th colspan="2">DIP SW 1-8</th></tr><tr><th>ON</th><th>OFF</th></tr><tr><td rowspan="2">DIP SW 1-7</td><td>ON</td><td>B to C [Extra Low] C to D [Low]</td><td>B to C [Low] C to D [Low]</td></tr><tr><td>OFF</td><td>B to C [Setting airflow] C to D [Setting airflow]</td><td>B to C [Extra Low] C to D [Low] Note: Initial setting</td></tr></table></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <			DIP SW 1-8		ON	OFF	DIP SW 1-7	ON	B to C [Extra Low] C to D [Low]	B to C [Low] C to D [Low]	OFF	B to C [Setting airflow] C to D [Setting airflow]	B to C [Extra Low] C to D [Low] Note: Initial setting
				DIP SW 1-8										
		ON	OFF											
DIP SW 1-7	ON	B to C [Extra Low] C to D [Low]	B to C [Low] C to D [Low]											
	OFF	B to C [Setting airflow] C to D [Setting airflow]	B to C [Extra Low] C to D [Low] Note: Initial setting											

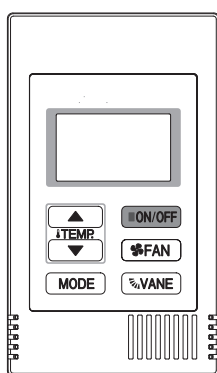
8-5. AUTO OPERATION [AUTOMATIC COOL/HEAT CHANGE OVER OPERATION]



<How to operate>

- ① Press ON/OFF button.
- ② Press [F1] button to display AUTO.
- ③ Press [F2] [F3] button to set the set temperature.

NOTE: The settable temperature range varies with the model of outdoor units and remote controller.



<How to operate>

- ① Press POWER ON/OFF button.
- ② Press the operation MODE button to display AUTO.
- ③ Press the TEMP. button to set the set temperature.

NOTE: The set temperature changes 1°F when the ∇ or Δ button is pressed one time. Automatic 67 to 83°F

Control Mode	Control Details	Remarks
1. Initial value of operation mode	HEAT mode for room temperature < Set temperature COOL mode for room temperature \geq Set temperature	
2. Mode change	(1) HEAT mode \rightarrow COOL mode Room temperature \geq Set temperature + 3°F or 3 minutes have passed. (2) COOL mode \rightarrow HEAT mode Room temperature \leq Set temperature - 3°F or 3 minutes have passed.	
3. COOL mode	Operates as it would in COOL operation.	
4. HEAT mode	Operates as it would in HEAT operation.	

8-6. WHEN UNIT IS STOPPED CONTROL MODE

Control Mode	Control Details	Remarks
1. Drain pump	<p>1-1. Drain pump control</p> <p>The drain pump turns ON for the specified amount of time when any of the following conditions has been satisfied:</p> <ol style="list-style-type: none"> ① ON for 3 minutes after the operation mode is switched from COOL or DRYING to another operation mode (FAN). ② ON for 6 minutes after the float switch is submerged in the water when the float switch control judges the sensor is in the water. <p>1-2. Float switch control</p> <ul style="list-style-type: none"> • Float switch control judges whether the sensor is in the air or in the water by turning the float switch ON/OFF. <p>In the water : Detected that the float switch is ON for 15 seconds.</p> <p>In the air : Detected that the float switch is OFF for 15 seconds.</p>	<p>• Operates as it would in COOL operation.</p>

9-1. COUNTERMEASURES FOR ERROR DURING TEST RUN

If a problem occurs during test run, a code number will appear on the remote controller (or LED on the outdoor unit), and the air conditioning system will automatically cease operating.

Refer to the connected outdoor unit service manual in order to determine the nature of the abnormality and apply corrective measure.

Check code	Trouble	Detected Unit			Remarks
		Indoor	Outdoor	Remote Controller	
0403	Serial communication error		○		Outdoor unit Multi controller board ~ Power board communication trouble
1102	Compressor temperature		○		Check delay code 1202
1300	Low pressure		○		
1302	High pressure		○		Check delay code 1402
1500	Superheat due to low discharge temperature		○		Check delay code 1600
1501	Refrigerant shortage		○		Check delay code 1601
	Closed valve in cooling mode		○		Check delay code 1501
1508	4-way valve trouble in heating mode		○		Check delay code 1608
2500	Water leakage	○			
2502	Drain over flow protection	○			
2503	Drain sensor abnormality	○			
4100	Compressor current interruption (locked compressor)		○		Check delay code 4350
4114	Fan motor error	○			
4210	Compressor overcurrent interruption		○		
4220	Undervoltage/overvoltage/PAM error/L1open phase/power synchronization signal error		○		Check delay code 4320
4230	Heat Sink temperature		○		Check delay code 4330
4250	Power module		○		Check delay code 4350
4400	Fan trouble		○		Check delay code 4500
5101	Air inlet thermistor (TH21) open/short	○			
	Compressor temperature thermistor (TH4) open/short		○		Check delay code 1202
5102	Liquid pipe temperature thermistor (TH22) open/short	○			
	Suction pipe temperature thermistor (TH6) open/short		○		Check delay code 1211
5103	Gas pipe temperature thermistor (TH23) open/short	○			
5105	Outdoor liquid pipe temperature thermistor (TH3) open/short		○		Check delay code 1205
5106	Ambient thermistor (TH7) open/short		○		Check delay code 1221
5109	HIC pipe temperature thermistor (TH2) open/short		○		Check delay code 1222
5110	Heat Sink temperature thermistor (TH8) open/short		○		Check delay code 1214
5201	High pressure sensor (63HS)		○		Check delay code 1402
5202	Low pressure sensor (63LS)		○		Check delay code 1400
5701	Contact failure of drain float switch	○			
6600	Duplex address error	○	○	○	Only M-NET Remote controller is detected.
6602	Transmission processor hardware error	○	○	○	Only M-NET Remote controller is detected.
6603	Transmission bus BUSY error	○	○	○	Only M-NET Remote controller is detected.
6606	Signal communication error with transmission processor	○	○	○	Only M-NET Remote controller is detected.
6607	No ACK error	○		○	Only M-NET Remote controller is detected. *
6608	No response frame error	○		○	Only M-NET Remote controller is detected. *
6831	MA communication receive error (no receive signal)	○		○	Only MA Remote controller is detected.
6832	MA communication send error	○		○	Only MA Remote controller is detected.
6833	MA communication send error	○		○	Only MA Remote controller is detected.
6834	MA communication receive error	○		○	Only MA Remote controller is detected.
7100	Total capacity error		○		
7101	Capacity code error	○	○		
7102	Connecting excessive number of units		○		
7105	Address setting error		○		

Note:

When the outdoor unit detects No ACK error/No response error, an object indoor unit is treated as a stop, and not assumed to be abnormal.

*Abnormality for PWFY series

9-2. HOW TO CHECK THE PARTS

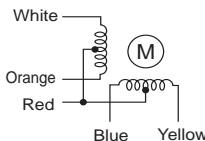
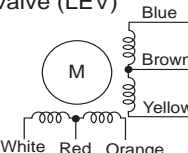
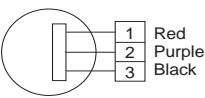
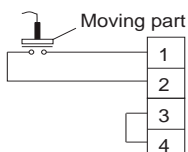
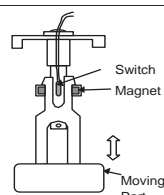
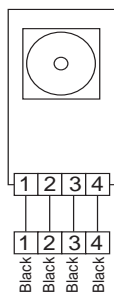
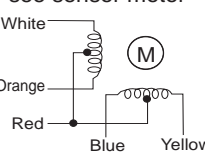
PLFY-P05NFMU-ER1.TH

PLFY-P08NFMU-ER1.TH

PLFY-P12NFMU-ER1.TH

PLFY-P15NFMU-ER1.TH

PLFY-P18NFMU-ER1.TH

Parts name	Check points				
Thermistor (TH21) (Room temperature detection) Thermistor (TH22) (Pipe temperature detection/Liquid) Thermistor (TH23) (Pipe temperature detection/Gas)	Disconnect the connector then measure the resistance with a tester. (At the ambient temperature 50 to 86°F)				
	Normal		Abnormal		
	4.3 to 9.6 kΩ		Open or short		
	Refer to “9-2-1. Thermistor Characteristic Graph”.				
Vane motor (MV)	Measure the resistance between the terminals with a tester. (At the ambient temperature 68 to 86°F)				
	Normal			Abnormal	
	Red–Yellow	Red–Blue	Red–Orange	Red–White	Open or short
	300 Ω				
Linear expansion valve (LEV)	Disconnect the connector then measure the valve resistance with a tester.				
	Normal			Abnormal	
	White-Red	Yellow-Brown	Orange-Red	Blue-Brown	Open or short
	200 Ω ±10%				
	Refer to “9-2-2. Linear Expansion Valve”.				
Drain pump (DP)	<p>① Check if the drain float switch works properly.</p> <p>② Check if the drain pump works and drains water properly in cooling operation.</p> <p>③ If no water drains, confirm that the check code 2502 will not be displayed 10 minutes after the operation starts.</p> <p>Note: The drain pump for this model is driven by the control board and is a DC volt motor, so it is not possible to measure the resistance between the terminals.</p> <p>Normal Red–Black: Input 13 V DC → The pump starts to rotate. Purple–Black: Abnormal (check code 2502) if it outputs 0–13 V square wave (5 pulses/rotation), and the number of rotation is not normal.</p>				
					
Drain float switch (FS)	Measure the resistance between the terminals with a tester.				
	State of moving part		Normal	Abnormal	
	UP		Short	Other than short	
	DOWN		Open	Other than open	
					
i-see sensor *	Turn the power ON while the i-see sensor connector is connected to the CN4Z on indoor controller board. A communication between the indoor controller board and i-see sensor board is made to detect the connection.				
	Normal: When the operation starts, the motor for i-see sensor is driven to rotate the i-see sensor. Abnormal: The motor for i-see sensor is not driven when the operation starts.				
	Note: The voltage between the terminals cannot be measured accurately since it is pulse output.				
i-see sensor motor *	Measure the resistance between the terminals with a tester. (At the ambient temperature 68 to 86°F)				
	Normal			Abnormal	
	Red–Yellow	Red–Blue	Red–Orange	Red–White	Open or short
	250 Ω				

* i-see sensor is available with optional "i-see sensor corner panel" (SLP-18FAEU).

9-2-1. Thermistor Characteristic Graph

<Thermistor characteristic graph>

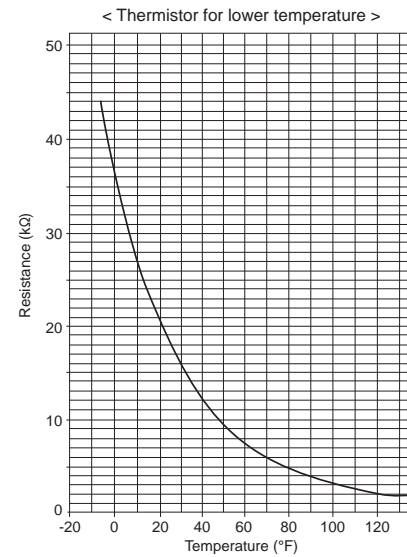
Thermistor for
lower temperature

Room temperature detection thermistor (TH21)
Pipe temperature detection thermistor/liquid (TH22)
Pipe temperature detection thermistor/gas (TH23)

Thermistor $R_0 = 15 \text{ k}\Omega \pm 3\%$
Fixed number of $B = 3480 \pm 2\%$

$$R_t = 15 \exp \left\{ 3480 \left(\frac{1}{273 + (t - 32)/1.8} - \frac{1}{273} \right) \right\}$$

30°F	15.8 kΩ
50°F	9.6 kΩ
70°F	6.0 kΩ
80°F	4.8 kΩ
90°F	3.9 kΩ
100°F	3.2 kΩ

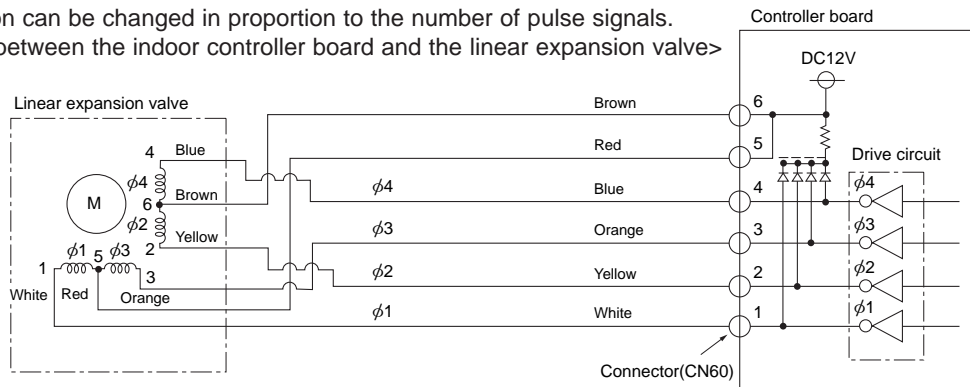


9-2-2. Linear Expansion Valve

① Operation summary of the linear expansion valve

- Linear expansion valves open/close through the use of a stepping motor after receiving the pulse signal from the indoor controller board.
- Valve position can be changed in proportion to the number of pulse signals.

<Connection between the indoor controller board and the linear expansion valve>

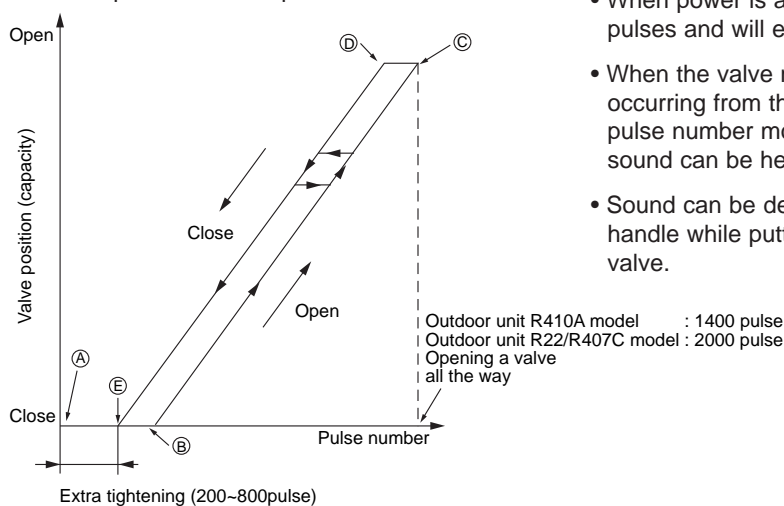


Note : Since the order of connector numbers is different at the controller board side from the LEV side, see the colors of lead wires to check the numbers.

<Output pulse signal and the valve operation>

Output (Phase)	Output			
	1	2	3	4
$\phi 1$	ON	OFF	OFF	ON
$\phi 2$	ON	ON	OFF	OFF
$\phi 3$	OFF	ON	ON	OFF
$\phi 4$	OFF	OFF	ON	ON

② Linear expansion valve operation

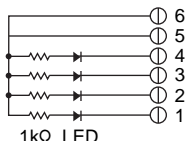
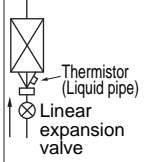


Closing a valve : 1 → 2 → 3 → 4 → 1
Opening a valve : 4 → 3 → 2 → 1 → 4

The output pulse shifts in above order.

- When linear expansion valve operation stops, all output phases become OFF.
- At phase interruption or when phase does not shift in order, motor does not rotate smoothly and motor will lock and vibrate.
- When power is applied valve drives in the closed direction 2200 pulses and will end at A. This is done to define valve position.
- When the valve moves smoothly, there is no sound or vibration occurring from the linear expansion valves : however, when the pulse number moves from E to A or when the valve is locked, more sound can be heard than in a normal situation.
- Sound can be detected by placing the ear against the screw driver handle while putting the screw driver tip to the linear expansion valve.

③ Troubleshooting

Symptom	Check points	Countermeasures
Operation circuit failure of the micro processor	Disconnect the connector on the controller board, then connect LED for checking.  1kΩ LED When power is turned on, pulse signals will be output for 10 seconds. There must be some defects in the operation circuit if the LED does not light while the signals are output or keeps lighting even after the signals stop.	Exchange the indoor controller board at drive circuit failure.
Linear expansion valve mechanism is locked.	Motor will idle and make a ticking noise when the motor is operated while the linear expansion valve is locked. This ticking sound is the sign of the abnormality.	Exchange the linear expansion valve.
Short or breakage of the motor coil of the linear expansion valve	Measure the resistance between each coil (white-red, yellow-brown, orange-red, blue-brown) with a tester. It is normal if the resistance is in the range of $200\Omega \pm 10\%$.	Exchange the linear expansion valve.
Valve does not close completely.	To check the linear expansion valve, operate the indoor unit in fan mode and at the same time operate other indoor units in cooling mode, then check the pipe temperature <liquid pipe temperature> of the indoor unit by the outdoor multi controller board operation monitor. During fan operation, linear expansion valve is closed completely and if there is any leaking, detecting temperature of the thermistor will go lower. If the detected temperature is much lower than the temperature indicated in the remote controller, it means the valve is not closed all the way.  Thermistor (Liquid pipe) Linear expansion valve It is not necessary to exchange the linear expansion valve, if the leakage is small and not affecting normal operation.	If large amount of refrigerant leaks, exchange the linear expansion valve.
Wrong connection of the connector or contact failure	Check the color of lead wire and missing terminal of the connector.	Disconnect the connector at the controller board, then check the continuity.

9-2-3. DC Fan Motor (Fan Motor/Indoor Controller Board)

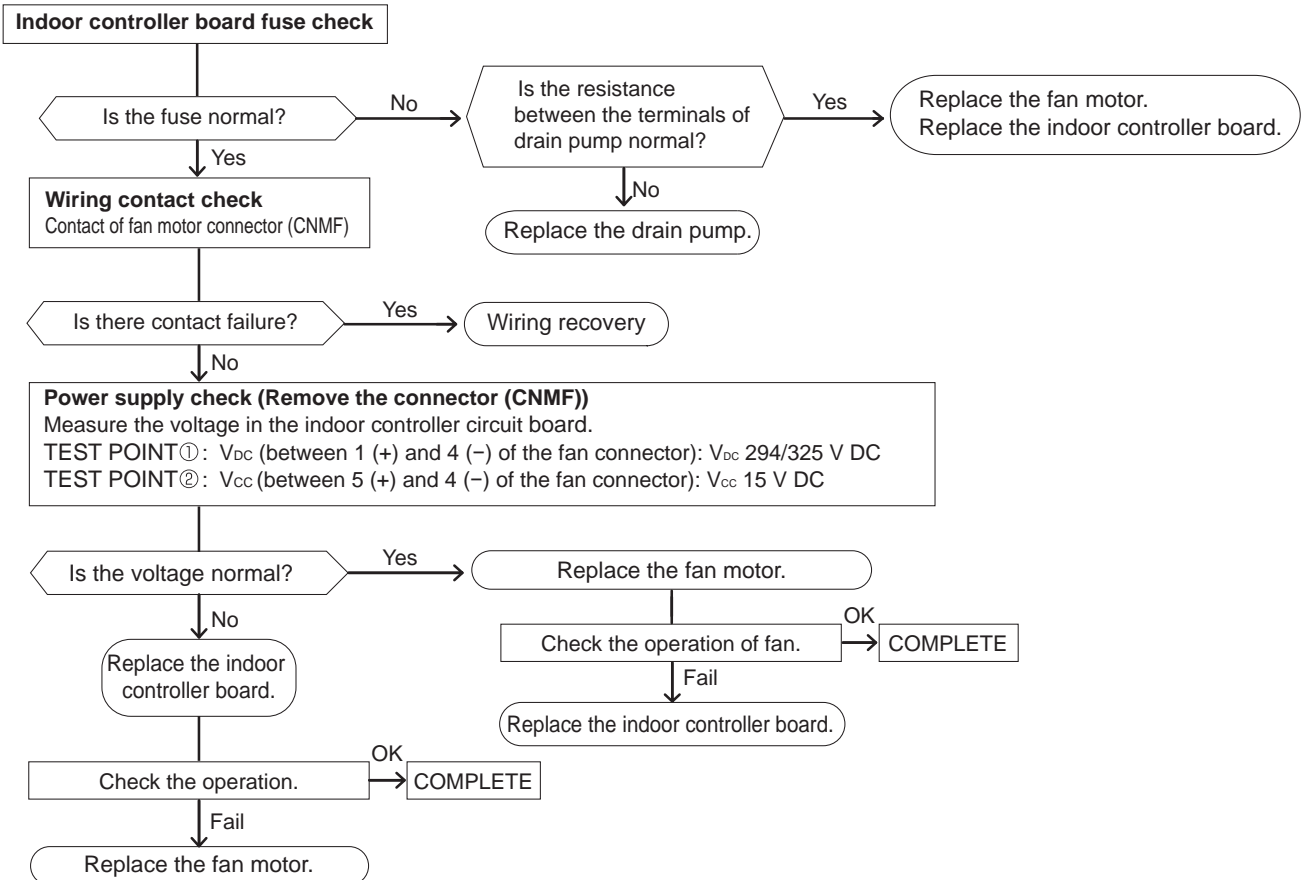
Check method of indoor fan motor (fan motor/indoor controller board)

① Notes


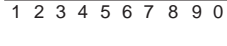

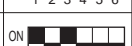

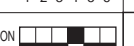

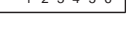

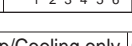

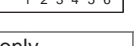

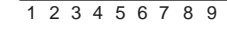



- High voltage is applied to the connector (CNMF) for the fan motor. Pay attention to the service.
- Do not pull out the connector (CNMF) for the motor with the power supply on.
(It will damage the indoor controller board and fan motor)

② Self check

Conditions : The indoor fan cannot turn around.



9-3. FUNCTION OF DIP SWITCH

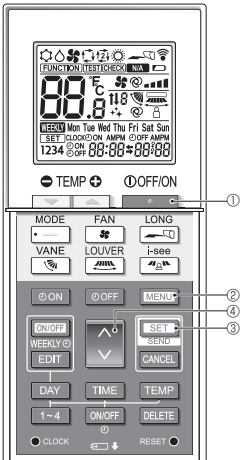
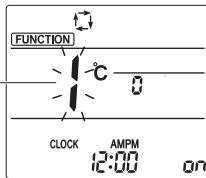
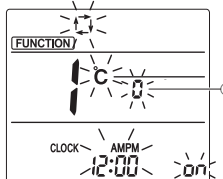
Switch	Pole	Function	Operation by switch		Effective timing	Remarks
			ON	OFF		
SW1 Function Selection	1	Thermistor <Room temperature detection> position	Built-in remote controller	Indoor unit	Under suspension	<div>Indoor controller board</div> <div><Initial setting></div> <div>ON </div> <div>OFF </div>
	2	Filter clogging detection	Provided	Not provided		
	3	Filter cleaning	2,500h	100h		
	4	Fresh air intake	Effective	Not effective		
	5	Remote indication switching	Thermo ON signal indication	Fan output indication		
	6	—	—	—		
	7	Air flow set in case of Heat thermo OFF	Low *1	Extra low *1		
	8	Heat thermo OFF	Setting air flow *1	Depends on SW1-7		
	9	Auto restart function	Effective	Not effective		
	0	Power ON/OFF	Effective	Not effective		
SW2 Capacity code setting	1-6	<div>Capacity</div> <div>SW 2</div> <div>P05</div> <div>ON </div> <div>OFF </div> <div>1 2 3 4 5 6</div>	<div>Capacity</div> <div>SW 2</div> <div>P12</div> <div>ON </div> <div>OFF </div> <div>1 2 3 4 5 6</div>	<div>Capacity</div> <div>SW 2</div> <div>P18</div> <div>ON </div> <div>OFF </div> <div>1 2 3 4 5 6</div>	Before power supply ON	<div>Indoor controller board</div> <div><Initial setting></div> <div>Set for each capacity.</div>
		<div>P08</div> <div>ON </div> <div>OFF </div> <div>1 2 3 4 5 6</div>	<div>P15</div> <div>ON </div> <div>OFF </div> <div>1 2 3 4 5 6</div>			
SW3 Function setting	1	Heat pump/Cooling only	Cooling only	Heat pump	Under suspension	<div>Indoor controller board</div> <div><Initial setting></div> <div>Set for each capacity.</div> <div>ON </div> <div>OFF </div>
	2	—	—	—		
	3	—	—	—		
	4	Setting i-See sensor installation position	Setting pattern ③	Setting pattern ①		
	5	Vane horizontal angle	Second setting	First setting		
	6	—	—	—		
	7	Indoor linear expansion valve opening	Effective	Not effective		
	8	Heat 4 degrees up	Not effective	Effective		
	9	—	—	—		
	0	—	—	—		
SW11 1s digit address setting	Rotary switch	SW12	SW11	Address setting should be done when M-NET remote controller is being used.	Before power supply ON	<div>Indoor controller board</div> <div><Initial setting></div> <div>SW12 </div> <div>SW11 </div>
SW12 10s digit address setting		10	1			
SW14 Branch No. setting	Rotary switch	SW14	This is the switch to be used when the indoor unit is operated with R2 series outdoor unit as a set. With other than R2 series outdoor unit leave at 0.			<div>Indoor controller board</div> <div><Initial setting></div> <div>SW14 </div>

*1 Refer to the <Table A> below.

<Table A>

SW1-7	SW1-8	
OFF	OFF	Extra low
ON	OFF	Low
OFF	ON	Setting air flow
ON	ON	stop

Continue to the next page

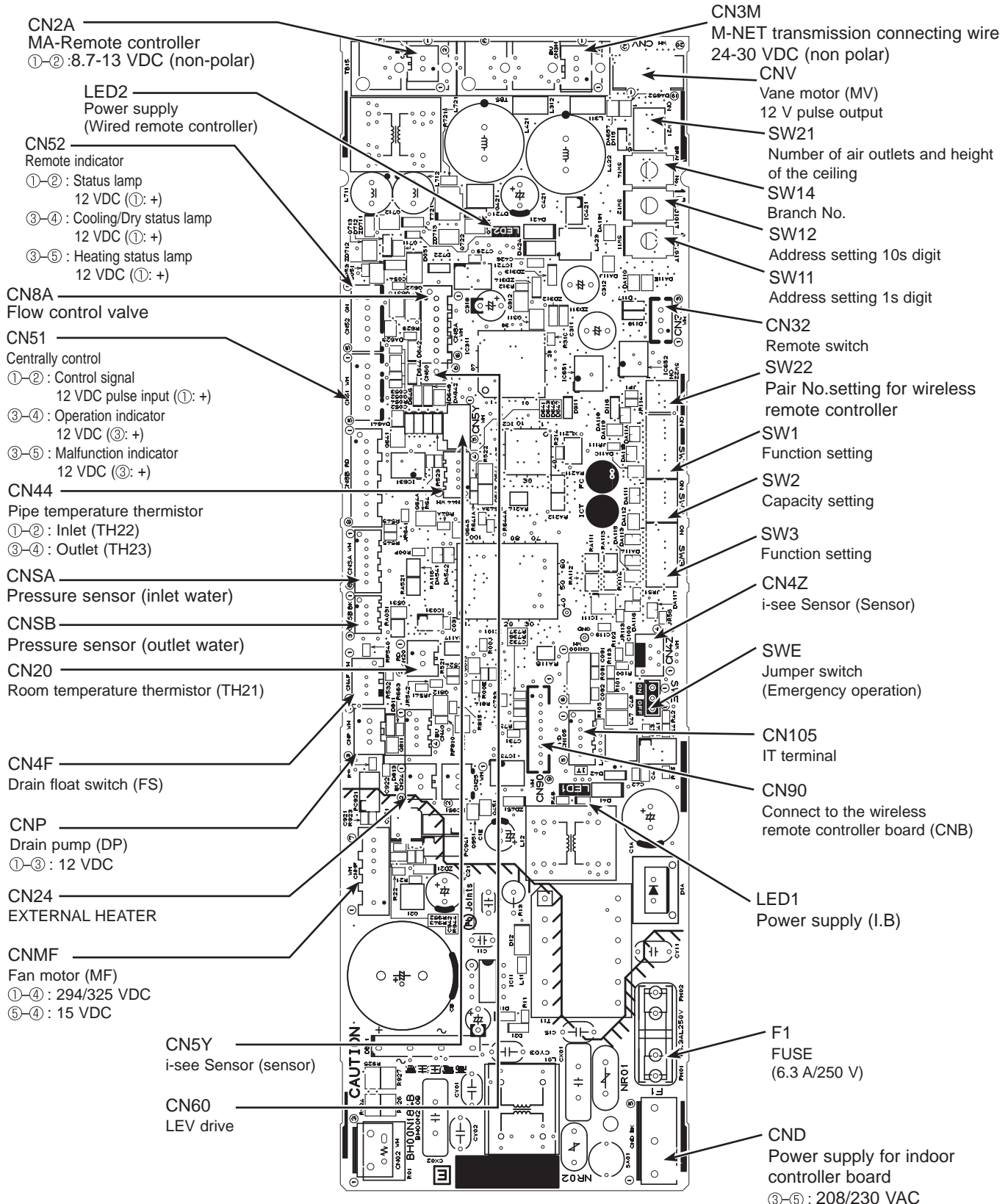
Switch	Pole	Function	Operation by switch		Effective timing	Remarks																																						
			ON	OFF																																								
SW21 Function selection	1	Setting ceiling height	Depends on SW21-1, SW21-2		Under operation or suspension	<div><Initial setting></div> <div>ON <div><div></div><div></div><div></div><div></div><div></div><div></div></div></div> <div>OFF <div><div></div><div></div><div></div><div></div><div></div><div></div></div></div> <div>1 2 3 4 5 6</div>																																						
	2																																											
	3						—	—																																				
	4						—	—																																				
	5						—	—																																				
	6						—	—																																				
	<table><tr><th></th><th>SW21-1</th><th>SW21-2</th><th>Height</th></tr><tr><td>Silent</td><td>—</td><td>ON</td><td>8.2 ft [2.5 m]</td></tr><tr><td>Standard</td><td>OFF</td><td>OFF</td><td>8.9 ft [2.7 m] (default setting)</td></tr><tr><td>High</td><td>ON</td><td>OFF</td><td>9.8 ft [3.0 m]</td></tr></table>					SW21-1	SW21-2	Height	Silent	—	ON	8.2 ft [2.5 m]	Standard	OFF	OFF	8.9 ft [2.7 m] (default setting)	High	ON	OFF	9.8 ft [3.0 m]																								
	SW21-1	SW21-2	Height																																									
Silent	—	ON	8.2 ft [2.5 m]																																									
Standard	OFF	OFF	8.9 ft [2.7 m] (default setting)																																									
High	ON	OFF	9.8 ft [3.0 m]																																									
SW22 Function selection	Jumper	<table><tr><th></th><th>Function</th><th>ON</th><th>OFF</th></tr><tr><td>1</td><td>—</td><td>—</td><td>—</td></tr><tr><td>2</td><td>—</td><td>—</td><td>—</td></tr><tr><td>3</td><td>Pair No. of wireless remote controller</td><td colspan="2" rowspan="2">Depends on SW22-3, 22-4</td></tr><tr><td>4</td><td>Pair No. of wireless remote controller</td></tr></table> <div><ul style="list-style-type: none">To operate each indoor unit by each remote controller when installed 2 indoor units or more are near, Pair No. setting is necessary.<ul style="list-style-type: none">Pair No. setting is available with the 4 patterns (Setting patterns A to D).Make setting for J41, J42 of indoor controller board and the Pair No. of wireless remote controller.You may not set it when operating it by one remote controller.<ul style="list-style-type: none">Setting for indoor unit<ul style="list-style-type: none">Cut jumper wire J41, J42 on the indoor controller board according to the table below.<div>Wireless remote controller pair number:<ul style="list-style-type: none">Setting operation (Fig. 1 ㉑)<ol style="list-style-type: none">Press the <div></div> button ① to stop the air conditioner.Press the <div>MENU</div> button ②.Check that function No."1" is displayed, and then press the <div>SET</div> button ③. The Screen display setting screen will be displayed. (Fig. 2.)Pair No. changing operation (Fig. 2 ㉒)<ol style="list-style-type: none">Press the <div></div> button ④.Each time the <div></div> button ④ is pressed, the pair No.0–3 changes.Press the <div>SET</div> button ③ to check the setting.Press the <div>MENU</div> button ②.<table><tr><th colspan="2">Indoor unit SW22</th><th rowspan="2">Pair No. of wireless remote controller</th><th rowspan="2"></th></tr><tr><th>SW22-3</th><th>SW22-4</th></tr><tr><td>ON</td><td>ON</td><td>0</td><td>Initial setting</td></tr><tr><td>OFF</td><td>ON</td><td>1</td><td>—</td></tr><tr><td>ON</td><td>OFF</td><td>2</td><td>—</td></tr><tr><td>OFF</td><td>OFF</td><td>3–9</td><td>—</td></tr></table></div></div>		Function	ON	OFF	1	—	—	—	2	—	—	—	3	Pair No. of wireless remote controller	Depends on SW22-3, 22-4		4	Pair No. of wireless remote controller	Indoor unit SW22		Pair No. of wireless remote controller		SW22-3	SW22-4	ON	ON	0	Initial setting	OFF	ON	1	—	ON	OFF	2	—	OFF	OFF	3–9	—	Under operation or suspension	<div><Initial setting></div> <div></div> <div></div> <div>Fig. 1</div> <div></div> <div>Fig. 2</div>
			Function	ON	OFF																																							
		1	—	—	—																																							
		2	—	—	—																																							
		3	Pair No. of wireless remote controller	Depends on SW22-3, 22-4																																								
4	Pair No. of wireless remote controller																																											
Indoor unit SW22		Pair No. of wireless remote controller																																										
SW22-3	SW22-4																																											
ON	ON	0	Initial setting																																									
OFF	ON	1	—																																									
ON	OFF	2	—																																									
OFF	OFF	3–9	—																																									
SWE Test run for Drain pump	Connector	Drain pump and fan are activated simultaneously after the connector SWE is set to ON and turn on the power. <div><div>SWE</div><div><div></div><div></div></div><div>OFF ON</div></div> <div>→</div> <div><div>SWE</div><div><div></div><div></div></div><div>OFF ON</div></div> <div>The connector SWE is set to OFF after test run.</div>			Under operation	<div><Initial setting></div> <div>SWE</div> <div><div></div><div></div></div> <div>OFF ON</div>																																						

9-4. TEST POINT DIAGRAM

Indoor controller board
PLFY-P05NFMU-ER1.TH
PLFY-P15NFMU-ER1.TH

PLFY-P08NFMU-ER1.TH
PLFY-P18NFMU-ER1.TH

PLFY-P12NFMU-ER1.TH



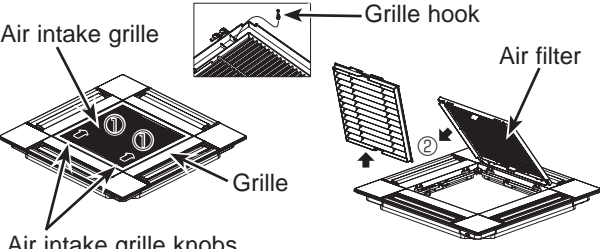
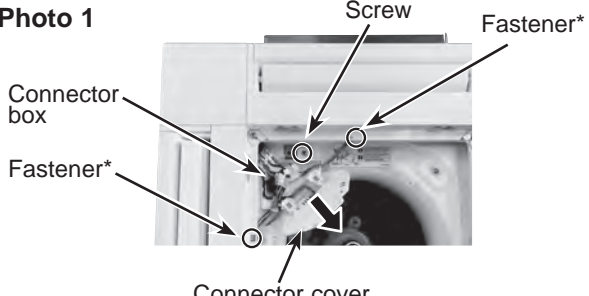
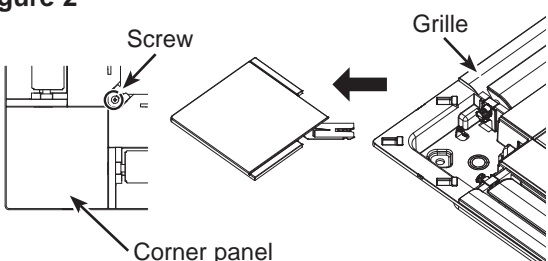
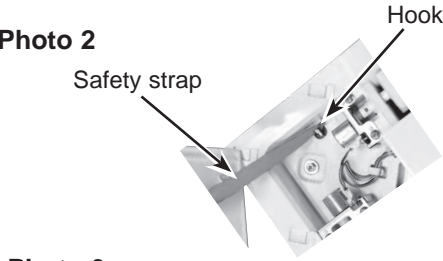
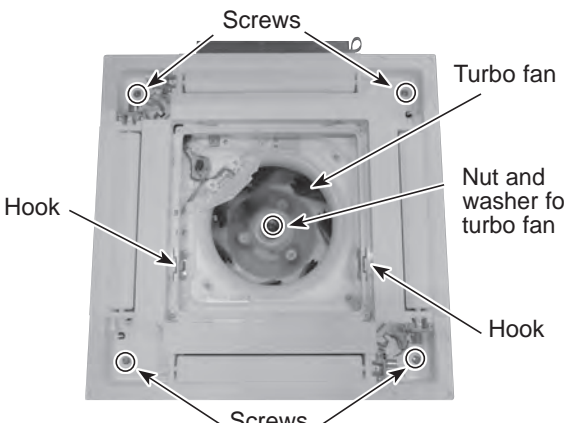
Note: The voltage range of 12 VDC in this page is between 11.5 to 13.7 VDC.

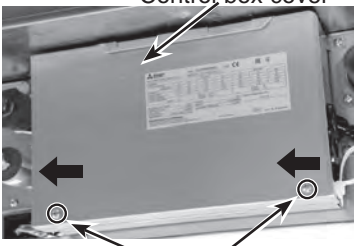
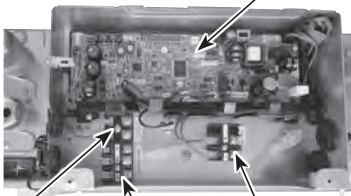
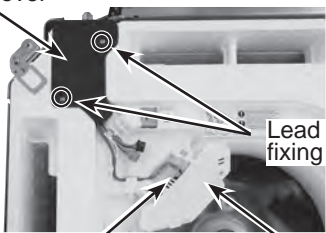
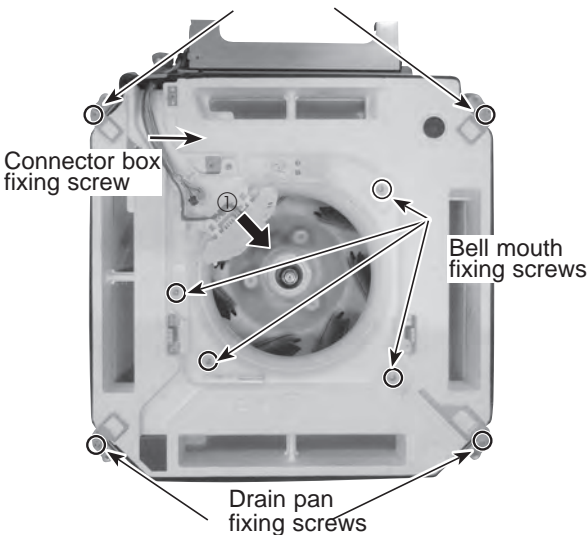
PLFY-P05NFMU-ER1.TH
PLFY-P15NFMU-ER1.TH

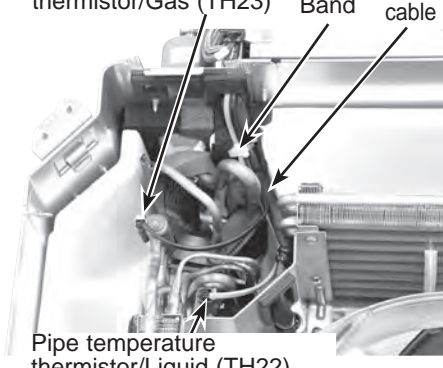
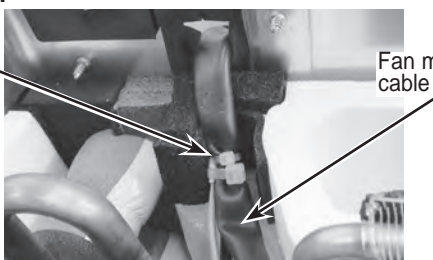
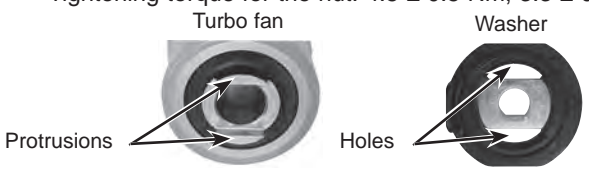
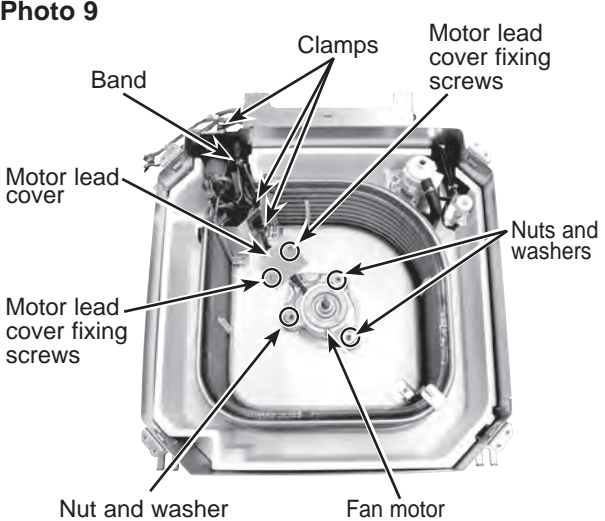

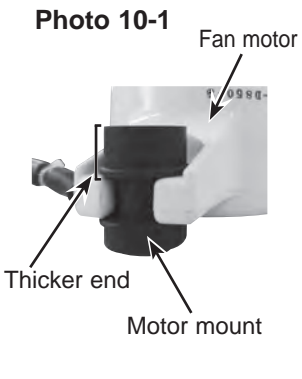
PLFY-P08NFMU-ER1.TH
PLFY-P18NFMU-ER1.TH

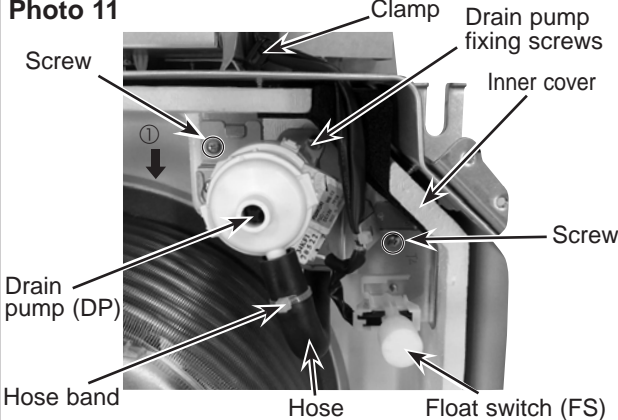
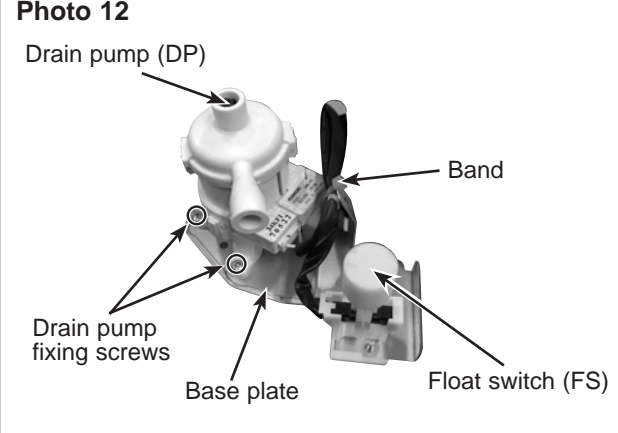
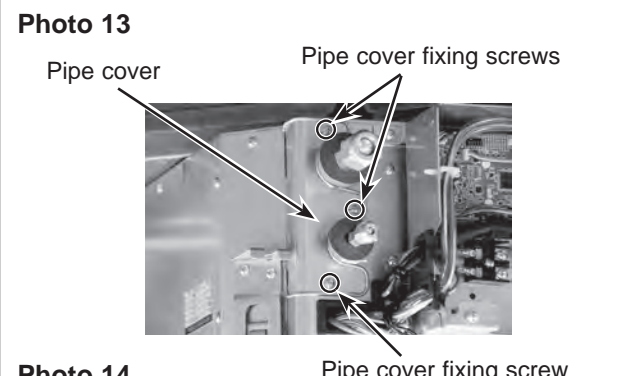
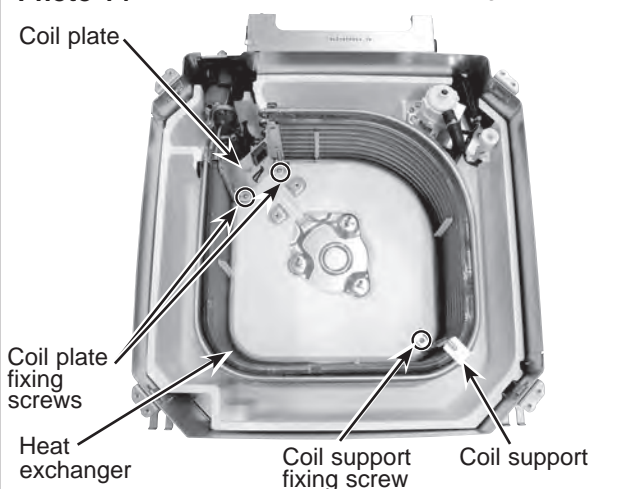
PLFY-P12NFMU-ER1.TH

Be careful when removing heavy parts.

OPERATING PROCEDURE	PHOTOS/FIGURES
<p>1. Removing the air intake grille and air filter</p> <ol style="list-style-type: none"> (1) Slide the knob of air intake grille to the direction of the arrow ① to open the air intake grille. (2) Remove the grille hook from the panel to prevent the grille from dropping. (3) Slide the hinge of the intake grille to the direction of the arrow ② and remove the air filter. 	<p>Figure 1</p> 
<p>2. Removing the panel</p> <ol style="list-style-type: none"> (1) Remove the air intake grille. (Refer to procedure 1) <p>Connector box (See Photo 1)</p> <ol style="list-style-type: none"> (2) Remove the screw of the connector cover. (3) Slide the connector cover to the direction of the arrow to open the cover. (4) Disconnect all the connectors, then pull out the connectors that are coming from panel side from the connector box. <p>Corner panel (See Figure 2 and Photo 2)</p> <ol style="list-style-type: none"> (5) Loosen the screw from the corner of the corner panel. (6) Slide the corner panel as indicated by the arrow. (7) Remove the safety strap from the hook, then remove the corner panel from the panel. (The safety strap is not equipped for the signal receiver panel and i-See sensor corner panel.) (8) Remove the fastener (*), then remove the corner panel. <p>Panel (See Photo 3)</p> <ol style="list-style-type: none"> (9) Remove the 4 screws. (10) Unlatch the 2 hooks. <p>* Fastener is only for the signal receiver and i-See sensor corner panel.</p>	<p>Photo 1</p>  <p>Figure 2</p>  <p>Photo 2</p>  <p>Photo 3</p> 

OPERATING PROCEDURE	PHOTOS/FIGURES
<p>3. Removing the electrical parts</p> <p>(1) Loosen the 2 screws on the control box cover.</p> <p>(2) Slide the control box cover as indicated by the arrow to remove.</p> <p><Electrical parts in the control box></p> <ul style="list-style-type: none"> • Indoor controller board (I.B) • Terminal block (TB2) • Terminal block (TB5) • Terminal block (TB15) 	<p>Photo 4</p>  <p>Control box cover</p> <p>Screws</p> <p>Photo 5</p>  <p>Indoor controller board (I.B)</p> <p>Terminal block (TB15)</p> <p>Terminal block (TB2)</p> <p>Terminal block (TB5)</p>
<p>4. Removing the room temperature thermistor (TH21)</p> <p>(1) Remove the panel. (Refer to procedure 2)</p> <p>Room temperature thermistor (TH21) (See Photo 6)</p> <p>(2) Remove the 2 lead wire cover fixing screws. (See Photo 6)</p> <p>(3) Open the lead wire cover, then remove the connector cover from the connector box.</p> <p>(4) Remove the band that fixes the room temperature thermistor (TH21) to the connector box.</p> <p>(5) Remove the room temperature thermistor (TH21) from the connector box.</p> <p>(6) Remove the connector (CN20) from the indoor controller board, and disconnect the room temperature thermistor (TH21).</p> <p>Note: When fixing the thermistor, make sure to fix it to the connector box using a band.</p>	<p>Photo 6</p>  <p>Lead wire cover</p> <p>Lead wire cover fixing screws</p> <p>Room temperature thermistor (TH21)</p> <p>Connector cover</p>
<p>5. Removing the drain pan</p> <p>(1) Remove the panel. (Refer to procedure 2)</p> <p>(2) Remove the room temperature thermistor (TH21). (Refer to procedure 4)</p> <p>Connector box (See Photo 7)</p> <p>(3) Remove the connector box fixing screw.</p> <p>(4) Slide the connector box as indicated by the arrow ①, then remove the claw from bell mouth.</p> <p>Bell mouth (See Photo 7)</p> <p>(5) Remove the 4 bell mouth fixing screws, then remove the bell mouth.</p> <p>Drain pan (See Photo 7)</p> <p>(6) Remove the 4 drain pan fixing screws, then remove the drain pan.</p>	<p>Photo 7</p>  <p>Drain pan fixing screws</p> <p>Connector box fixing screw</p> <p>Bell mouth fixing screws</p> <p>Drain pan fixing screws</p>

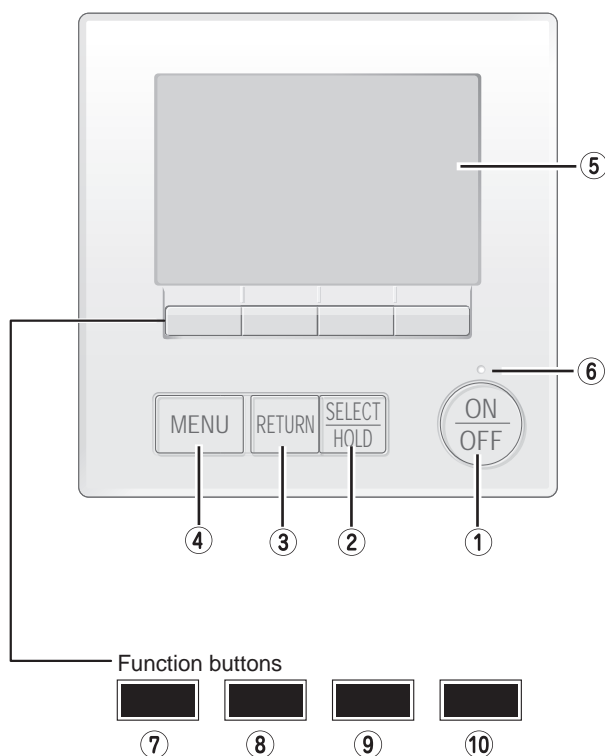
OPERATING PROCEDURE	PHOTOS/FIGURES
<p>6. Removing the pipe temperature thermistor/liquid (TH22) and pipe temperature thermistor/gas (TH23)</p> <ol style="list-style-type: none"> (1) Remove the panel. (Refer to procedure 2) (2) Remove the room temperature thermistor (TH21). (Refer to procedure 4) (3) Remove the drain pan. (Refer to procedure 5) <p>Pipe temperature thermistor/liquid (TH22) and pipe temperature thermistor/gas (TH23) (See Photo 8)</p> <ol style="list-style-type: none"> (4) Remove the control box cover. (Refer to procedure 3) (5) Disconnect the thermistor connectors from the CN44 on the indoor controller board. (6) Cut the band fixing the thermistor connectors to the fan motor cable. (7) Remove the thermistors from the holders on heat exchanger. <p>Note: When re-attaching the thermistor connectors to the fan motor cable, make sure to put the fixed band into the groove. (See Photo 8-1)</p>	<p>Photo 8 Pipe temperature thermistor/Gas (TH23) Band Fan motor cable Pipe temperature thermistor/Liquid (TH22)</p>  <p>Photo 8-1 Band Fan motor cable</p> 
<p>7. Removing the fan motor (MF)</p> <ol style="list-style-type: none"> (1) Remove the panel. (Refer to procedure 2) (2) Remove the room temperature thermistor (TH21). (Refer to procedure 4) (3) Remove the drain pan. (Refer to procedure 5) <p>Turbo fan (See Photo 3)</p> <ol style="list-style-type: none"> (4) Remove the nut and washer from the turbo fan. (5) Remove the turbo fan from the motor shaft. <p>Notes:</p> <ul style="list-style-type: none"> • When assembling, make sure that the protrusions on the turbo fan fit into the holes on the washer. • Tightening torque for the nut: 4.5 ± 0.5 Nm, 3.3 ± 0.4 ft.-lbs. <div data-bbox="186 1369 771 1541">  <p>Turbo fan Washer Protrusions Holes</p> </div> <p>Fan motor (See Photo 9)</p> <ol style="list-style-type: none"> (6) Remove the control box cover. (Refer to procedure 3) (7) Disconnect the fan motor cable from the CNMF on the indoor controller board. (8) Remove the 2 motor lead cover fixing screws, then remove the motor lead cover. (9) Loosen the 3 clamps fixing the fan motor cable. (10) Cut the band. (11) Remove the 3 nuts and washers, then remove the fan motor. (12) Remove the 3 motor mounts. <p>Notes:</p> <ol style="list-style-type: none"> 1. When re-attaching the motor mount, make sure that the thicker end faces the motor shaft. (See Photo 10-1) 2. When re-attaching the turbo fan, make sure that the tightening torque for nuts is 5 N·m, 3.7 ft.-lbs or lower. 	<p>Photo 9</p>  <p>Clamps Band Motor lead cover Motor lead cover fixing screws Nuts and washers Motor lead cover fixing screws Nut and washer Fan motor</p> <p>Photo 10 Fan motor</p>  <p>Motor mounts</p> <p>Photo 10-1 Fan motor</p>  <p>Thicker end Motor mount</p>

OPERATING PROCEDURE	PHOTOS/FIGURES
<p>8. Removing the drain pump (DP) and float switch (FS)</p> <ol style="list-style-type: none"> (1) Remove the panel. (Refer to procedure 2) (2) Remove the room temperature thermistor (TH21). (Refer to procedure 4) (3) Remove the control box cover. (Refer to procedure 3) (4) Remove the drain pan. (Refer to procedure 5) <p>Drain pump (See Photo 11 and 12)</p> <ol style="list-style-type: none"> (5) Disconnect the drain pump connector from the CNP and float switch connector from CN4F on the indoor controller board. (6) Loosen the clamp fixing the connectors on the side of the control box. (7) Cut the hose band and release the hose. (8) Remove the 2 screws fixing the drain pump and float switch to the inner cover. (9) Slide the base plate of the drain pump and float switch as indicated by the arrow ① to remove. (10) Cut the band. (See Photo 12) (11) Remove the 3 drain pump fixing screws, then remove the drain pump. (See Photo 12) <p>Notes:</p> <ol style="list-style-type: none"> 1. When re-attaching the drain pump, make sure to use a band to fix the connector to the base plate. 2. Do not give a shock to the float switch. Otherwise it can cause damage or malfunction. 	<p>Photo 11</p>  <p>Photo 12</p> 
<p>9. Removing the heat exchanger</p> <ol style="list-style-type: none"> (1) Remove the panel. (Refer to procedure 2) (2) Remove the room temperature thermistor (TH21). (Refer to procedure 4) (3) Remove the drain pan. (Refer to procedure 5) (4) Remove the turbo fan and fan motor. (Refer to procedure 7) <p>Heat exchanger (See Photo 13 and 14)</p> <ol style="list-style-type: none"> (5) Remove the 3 pipe cover fixing screws to remove the pipe cover. (6) Remove the 2 coil plate fixing screws. (7) Remove the coil support fixing screw, then remove the coil support. (8) Remove the heat exchanger. 	<p>Photo 13</p>  <p>Photo 14</p> 

11-1. REMOTE CONTROLLER FUNCTIONS

<PAR-41MAA>

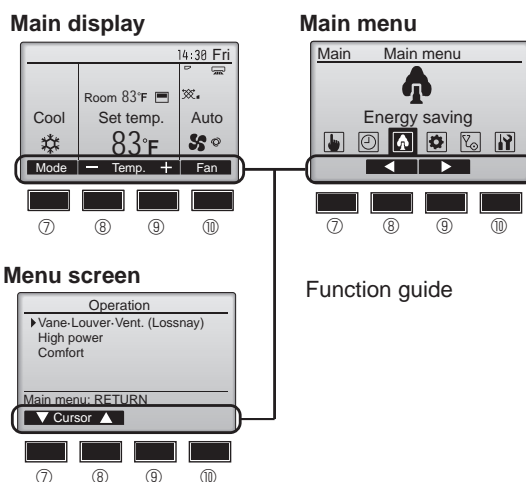
Controller interface



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.

**① [ON/OFF] button**

Press to turn ON/OFF the indoor unit.

② [SELECT/HOLD] button

Press to save the setting.

When the Main menu is displayed, pressing this button will enable/disable the HOLD function.

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.

When the backlight is off, pressing any button turns the backlight on and does not perform its function. (except for the [ON/OFF] button)

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.

⑦ Function button [F1]

Main display: Press to change the operation mode.

Menu screen: The button function varies with the screen.

⑧ Function button [F2]

Main display: Press to decrease temperature.

Main menu: Press to move the cursor left.

Menu screen: The button function varies with the screen.

⑨ Function button [F3]

Main display: Press to increase temperature.

Main menu: Press to move the cursor right.

Menu screen: The button function varies with the screen.

⑩ Function button [F4]

Main display: Press to change the fan speed.

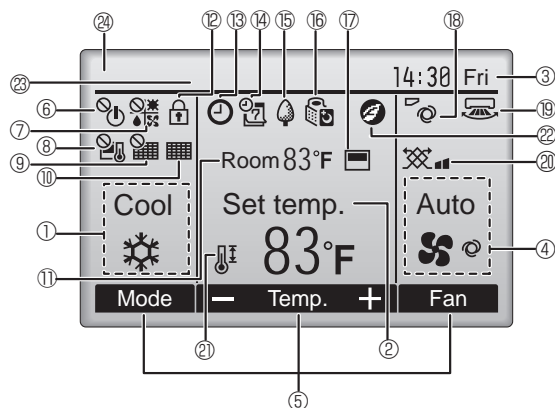
Menu screen: The button function varies with the screen.

Display

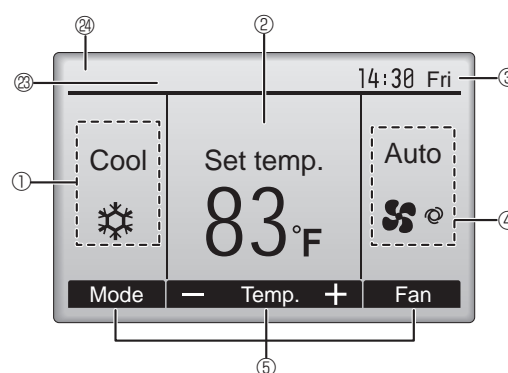
The main display can be displayed in two different modes: "Full" and "Basic". The initial setting is "Full". To switch to the "Basic" mode, change the setting on the Main display setting. (Refer to operation manual included with remote controller.)

<Full mode>

All icons are displayed for explanation.



<Basic mode>



① Operation mode

② Preset temperature

③ Clock

④ Fan speed

⑤ Button function guide

Functions of the corresponding buttons appear here.



Appears when the ON/OFF operation is centrally controlled.



Appears when the operation mode is centrally controlled.



Appears when the preset temperature is centrally controlled.



Appears when the filter reset function is centrally controlled.



Indicates when filter needs maintenance.

⑪ Room temperature



Appears when the buttons are locked.



Appears when the On/Off timer or Auto-off timer function is enabled.

appears when the timer is disabled by the centralized control system.
appears when the HOLD function is enable.



Appears when the Weekly timer is enabled.



Appears while the units are operated in the energy saving mode. (Will not appear on some models of indoor units)



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



Appears when the built-in thermistor on the remote controller is activated to monitor the room temperature (1).

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



Indicates the vane setting.



Indicates the louver setting.



Indicates the ventilation setting.



Appears when the preset temperature range is restricted.



Appears when an energy saving operation is performed using a "3D i-See sensor" function.

⑳ Centrally controlled

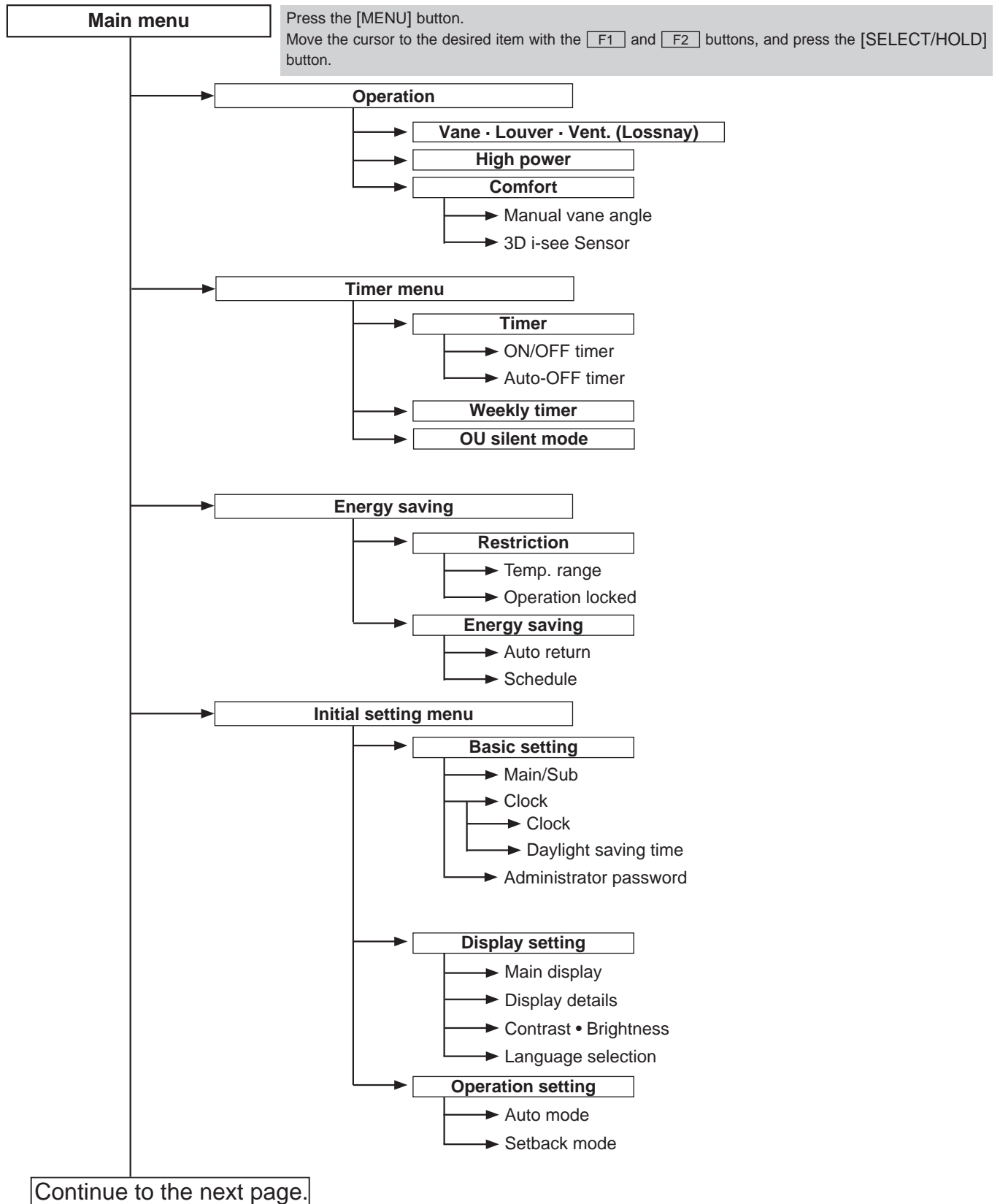
Appears for a certain period of time when a centrally-controlled item is operated.

㉑ Preliminary error display

A check code appears during the preliminary error.

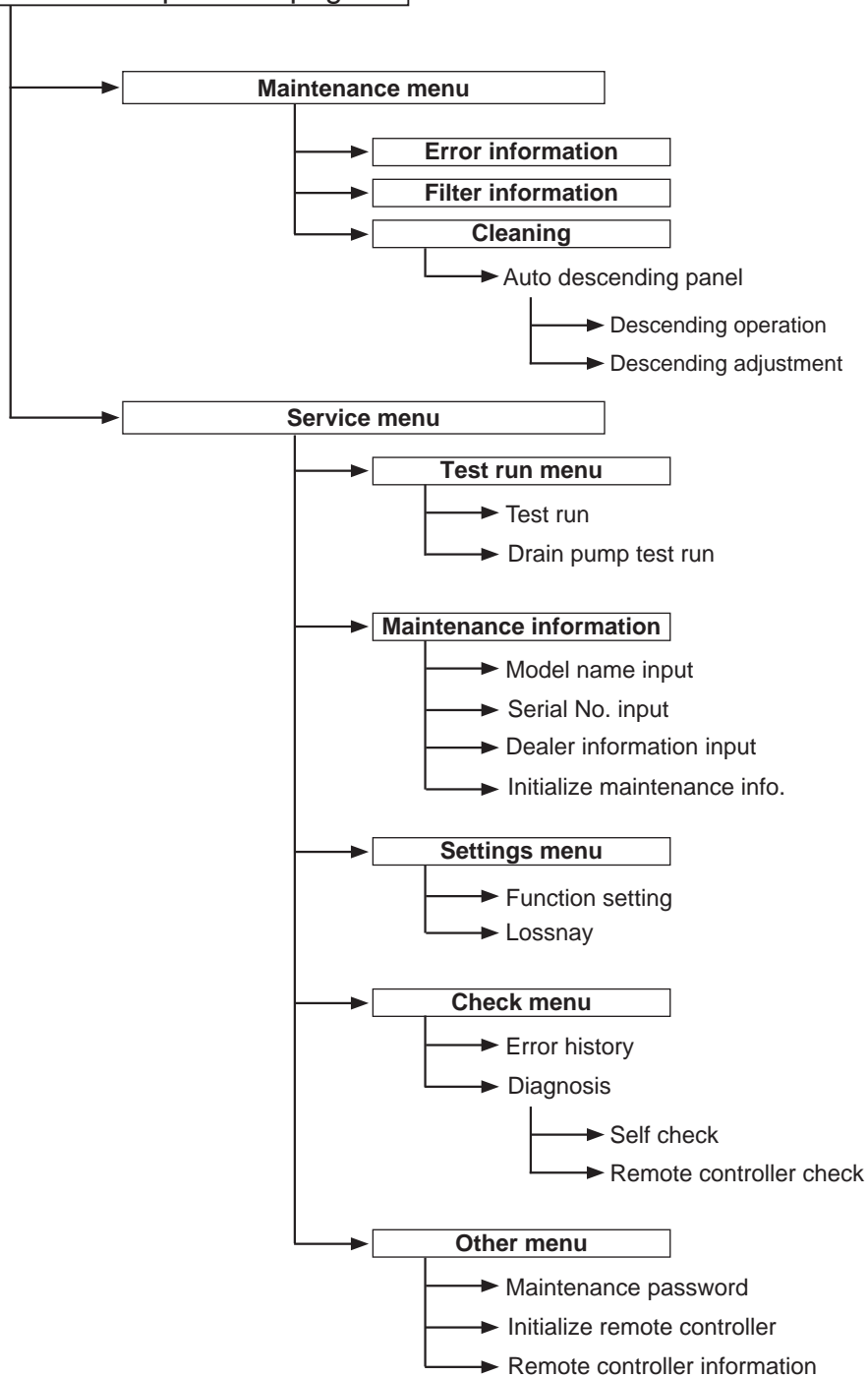
Most settings (except ON/OFF, mode, fan speed, temperature) can be made from the Main menu.

Menu structure



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

Continue from the previous page.



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

Main menu list

Main menu	Setting and display items		Setting details
Operation	Vane · Louver · Vent. (Lossnay)		Use to set the vane angle. <ul style="list-style-type: none"> Select a desired vane setting from 5 different settings. Use to turn ON/OFF the louver. <ul style="list-style-type: none"> Select a desired setting from "ON" and "OFF." Use to set the amount of ventilation. <ul style="list-style-type: none"> Select a desired setting from "Off," "Low," and "High."
	High power ^{*3}		Use to reach the comfortable room temperature quickly. <ul style="list-style-type: none"> Units can be operated in the High-power mode for up to 30 minutes.
	Comfort	Manual vane angle	Use to fix each vane angle.
		3D i-see Sensor	Use to set the following functions for 3D i-see Sensor. <ul style="list-style-type: none"> Air distribution Energy saving option Seasonal airflow
Timer	Timer	ON/OFF timer ^{*1}	Use to set the operation ON/OFF times. <ul style="list-style-type: none"> Time can be set in 5-minute increments.
		Auto-OFF timer	Use to set the Auto-OFF time. <ul style="list-style-type: none"> Time can be set to a value from 30 to 240 in 10-minute increments.
	Weekly timer ^{*1, *2}		Use to set the weekly operation ON/OFF times. <ul style="list-style-type: none"> Up to 8 operation patterns can be set for each day. (Not valid when the ON/OFF timer is enabled.)
	OU silent mode ^{*1, *3}		Use to set the time periods in which priority is given to quiet operation of outdoor units over temperature control. Set the Start/Stop times for each day of the week. <ul style="list-style-type: none"> Select the desired silent level from "Normal," "Middle," and "Quiet."
Energy saving	Restriction	Temp. range ^{*2}	Use to restrict the preset temperature range. <ul style="list-style-type: none"> Different temperature ranges can be set for different operation modes.
		Operation lock	Use to lock selected functions. <ul style="list-style-type: none"> The locked functions cannot be operated.
	Energy saving	Auto return ^{*2}	Use to get the units to operate at the preset temperature after performing energy saving operation for a specified time period. <ul style="list-style-type: none"> 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 ^{*1}	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. <ul style="list-style-type: none"> Up to 4 energy saving operation patterns can be set for each day. Time can be set in 5-minute increments. Energy saving rate can be set to a value from 0% or 50 to 90% in 10% increments.

^{*1} Clock setting is required.

^{*2} 1°C (2°F) increments.

^{*3} This function can only be set when certain outdoor units are connected.

--

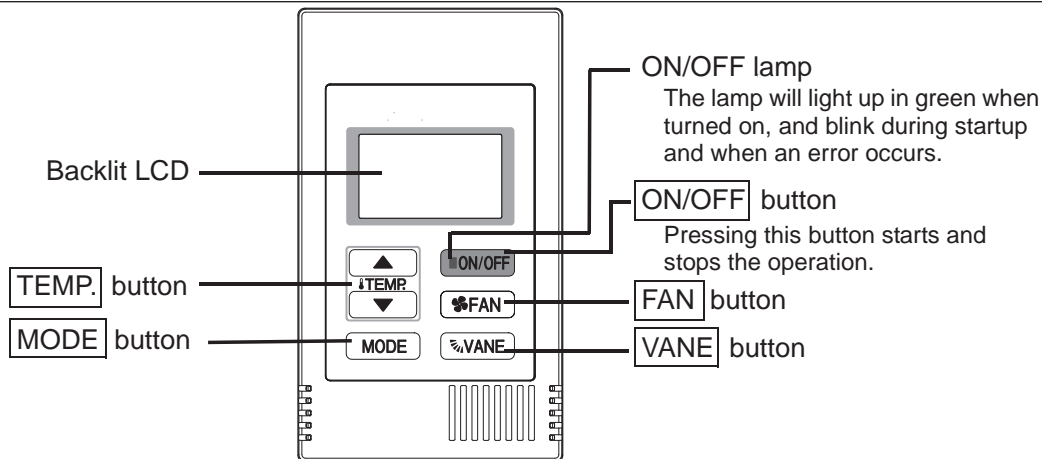
Main menu	Setting and display items		Setting details
Initial setting	Basic setting	Main/Sub	When connecting 2 remote controllers, one of them needs to be designated as a sub controller.
		Clock	Use to set the current time.
		Daylight saving time	Set the daylight saving time.
		Administrator password	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
	Display setting	Main display	Use to switch between "Full" and "Basic" modes for the Main display, and use to change the background colors of the display to black.
		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 Auto mode display or Only Auto display.
		Contrast • Brightness	Use to adjust screen contrast and brightness.
		Language selection	Use to select the desired language.
	Operation setting	Auto mode	Whether or not to use Auto mode can be selected by using the button. This setting is valid only when indoor units with Auto mode function are connected.
		Setback mode	Whether or not to use the Setback mode can be selected by using the button. This setting is valid only when indoor units with the Setback mode function are connected.
Maintenance	Error information		Use to check error information when an error occurs. • Check code, error source, refrigerant address, model name, manufacturing number, contact information (dealer's phone number) can be displayed. (The model name, manufacturing number, and contact information need to be registered in advance to be displayed.)
	Filter information		Use to check the filter status. • The filter sign can be reset.
	Cleaning	Auto descending panel	Use to lift and lower the auto descending panel (Optional parts).
Service	Test run		Select "Test run" from the Service menu to bring up the Test run menu. • Test run • Drain pump test run
	Input maintenance info.		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 • Initialize maintenance info.
	Settings	Function setting	Make the settings for the indoor unit functions via the remote controller as necessary.
		LOSSNAY setting	This setting is required only when the operation of CITY MULTI units is interlocked with LOSSNAY units.
	Check	Error history	Display the error history and execute "delete error history".
		Diagnosis	Self check: Error history of each unit can be checked via the remote controller. Remote controller check: When the remote controller does not work properly, use the remote controller checking function to troubleshoot the problem.
	Others	Maintenance password	Use to change the maintenance password.
		Initialize remote controller	Use to initialize the remote controller to the factory shipment status.
		Remote controller information	Use to display the remote controller model name, software version, and serial number.

<PAC-YT53CRAU>

Note:

The phrase "Wired remote controller" in this manual refers only to the TAC-YT53CRAU.

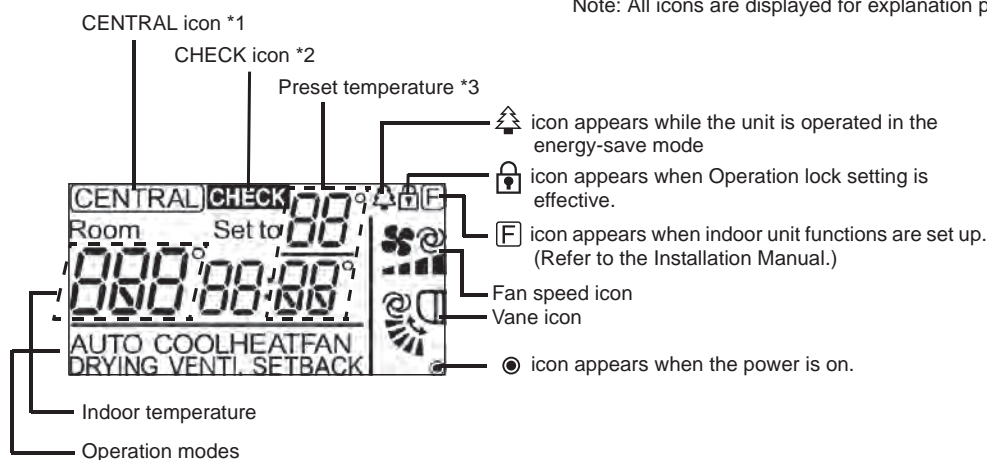
If you need any information for the other remote controller, please refer to either the installation manual or initial setting manual which are included in remote controller's box.



Note: To set the functions that are not available on this controller (TAC-YT53CRAU) such as Louver, use the centralized controller.

Display section

Note: All icons are displayed for explanation purpose.



*1 CENTRAL icon

Appears when one of the following local operations is prohibited: ON/OFF; operation mode; preset temperature; fan speed; vane.

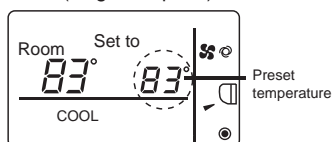
*2 CHECK icon

For City Multi, when an error occurs, power indicator will blink, and unit address (3 digits) and check code (4 digits) will blink.
Check the error status, stop the operation, and consult your dealer.

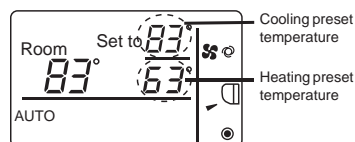
*3 Preset temperature

* Centigrade or Fahrenheit is selectable. Refer to the Installation Manual for details.

In COOL, DRYING, HEAT, or
AUTO (single set point) modes

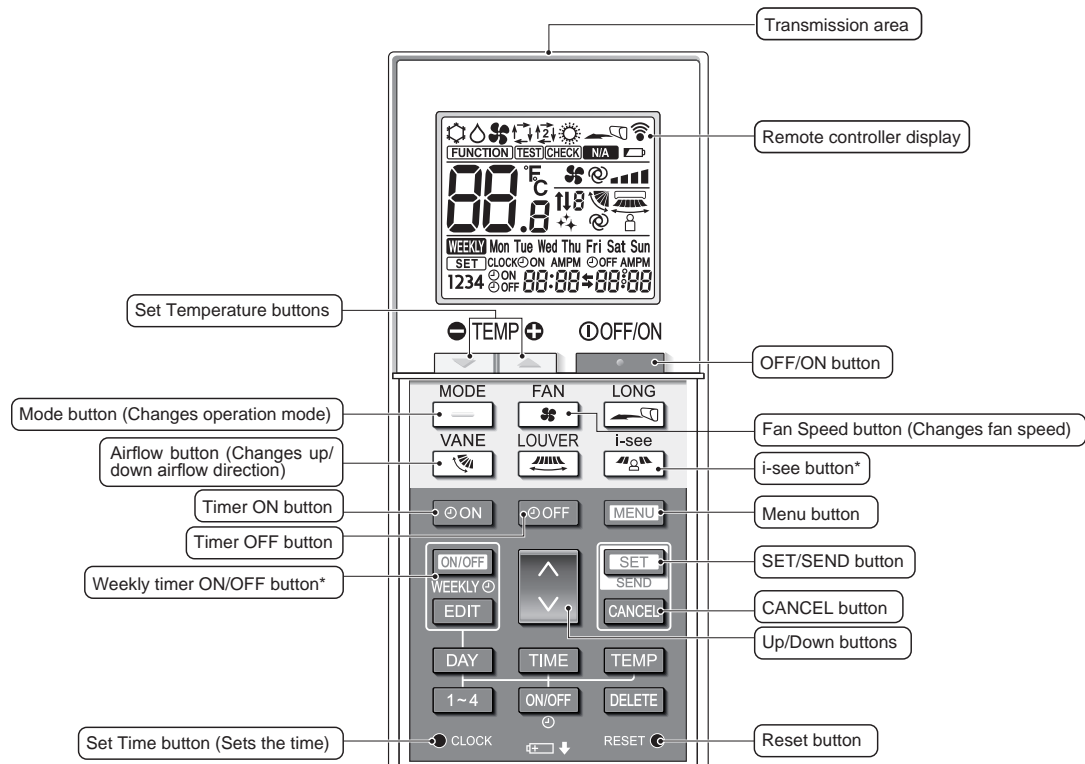


In AUTO (dual set point) or
SETBACK modes



<PAR-SL101A-E>

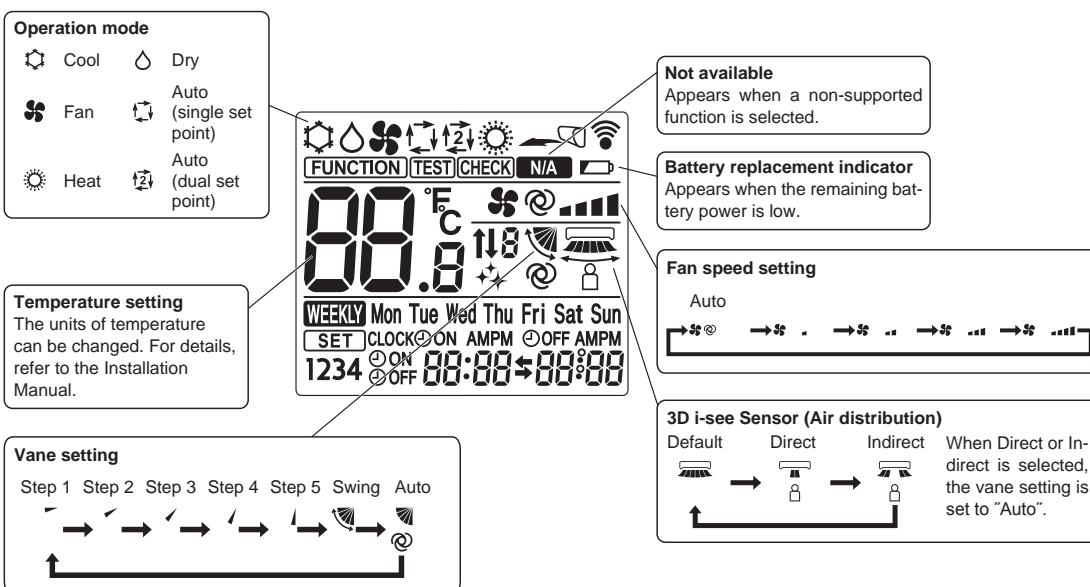
Controller interface



Note:

* This button is enabled or disabled depending on the model of the indoor unit.

Display



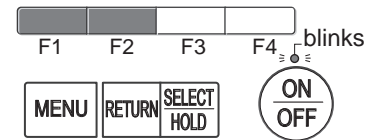
11-2. ERROR INFORMATION

When an error occurs, the following screen will appear.
Check the error status, stop the operation, and consult your dealer.

1. Check code, error unit, refrigerant address, model name, and serial number will appear.
The model name and serial number will appear only if the information has been registered.

Press the **[F1]** or **[F2]** button to go to the next page.

Error information		1/2
Error code	A3	
Error unit	IU	8 Unit#1
Time Occurred	02/01	4:48
Model name		
Serial No.		
Reset error: Reset button		
▼ Page ▲	Reset	



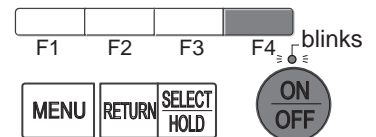
Contact information (dealer's phone number) will appear if the information has been registered.

Error information		2/2
Contact information		
Dealer		
Tel		
Reset error: Reset button		
▼ Page ▲	Reset	

2. Press the **[F4]** button or the **[ON/OFF]** button to reset the error that is occurring.

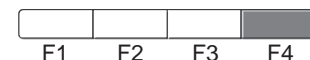
Errors cannot be reset while the ON/OFF operation is prohibited.

Error information		1/2
Error code	A3	
Error unit	IU	8 Unit#1
Time Occurred	02/01	4:48
Model name		
Serial No.		
Reset error: Reset button		
▼ Page ▲	Reset	



Select "OK" with the **[F4]** button.

Error reset	
Reset current error?	
Cancel	OK



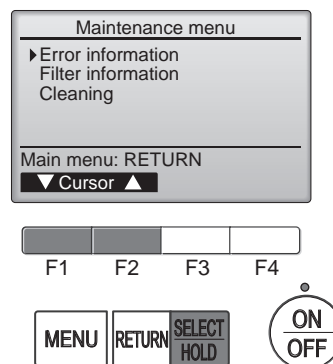
Error reset	
Error reset	
Main menu: MENU	

Navigating through the screens

- To go back to the Service menu **[MENU]** button

• Checking the error information

While no errors are occurring, page 2/2 of the error information can be viewed by selecting "Error information" from the Maintenance menu. Errors cannot be reset from this screen.

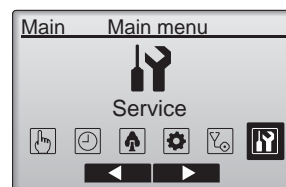


11-3. SERVICE MENU

Maintenance password is required

1. Select "Service" from the Main menu, and press the [SELECT/HOLD] button.

*At the main display, the menu button and select "Service" to make the maintenance setting.



2. When the Service menu is selected, a window will appear asking for the password.

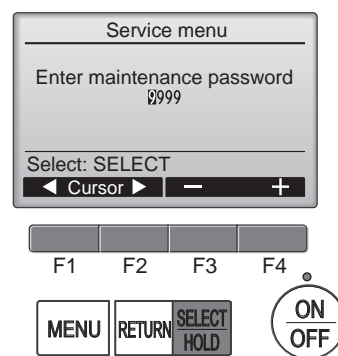
To enter the current maintenance password (4 numerical digits), move the cursor to the digit you want to change with the [F1] or [F2] button.



Set each number (0 through 9) with the [F3] or [F4] button.



Then, press the [SELECT/HOLD] button.



Note: The initial maintenance password is "9999". Change the default password as necessary to prevent unauthorized access. Have the password available for those who need it.

: If you forget your maintenance password, you can initialize the password to the default password "9999" by pressing and holding the [F1] button for 10 seconds on the maintenance password setting screen.

3. If the password matches, the Service menu will appear.

The type of menu that appears depends on the connected indoor units' type.

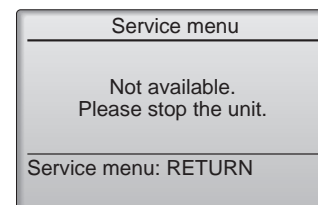
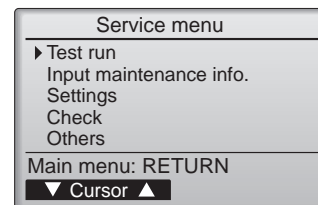
Note: Air conditioning units may need to be stopped to make only at "Settings". There may be some settings that cannot be made when the system is centrally controlled.



A screen will appear that indicates the setting has been saved.

Navigating through the screens

- To go back to the Service menu [MENU] button
- To return to the previous screen..... [RETURN] button



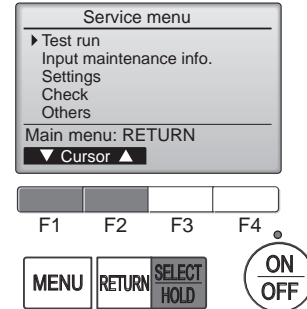
11-4. TEST RUN

11-4-1. PAR-41MAA

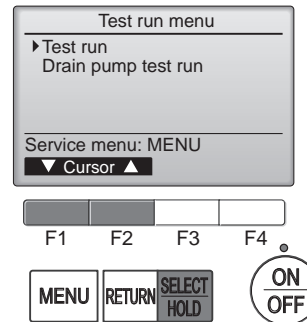
1. Select "Service" from the Main menu, and press the [SELECT/HOLD] button.



Select "Test run" with the [F1] or [F2] button, and press the [SELECT/HOLD] button.



2. Select "Test run" with the [F1] or [F2] button, and press the [SELECT/HOLD] button.



Test run operation

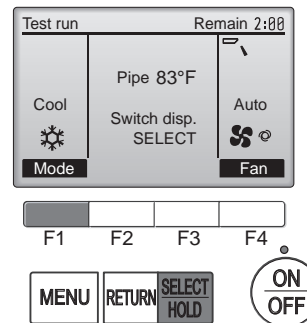
Press the [F1] button to go through the operation modes in the order of "Cool and Heat".

Cool mode: Check the cold air blows out.
Heat mode: Check the heat blows out.

Check the operation of the outdoor unit's fan.



Press the [SELECT/HOLD] button and open the Vane setting screen.



Auto vane check

Check the auto vane with the [F1] [F2] buttons.



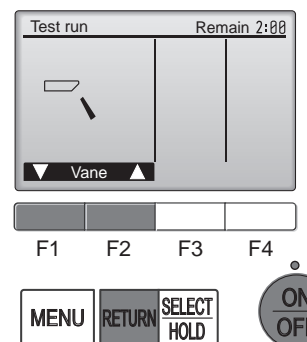
Press the [RETURN] button to return to "Test run operation".















Press the [ON/OFF] button.

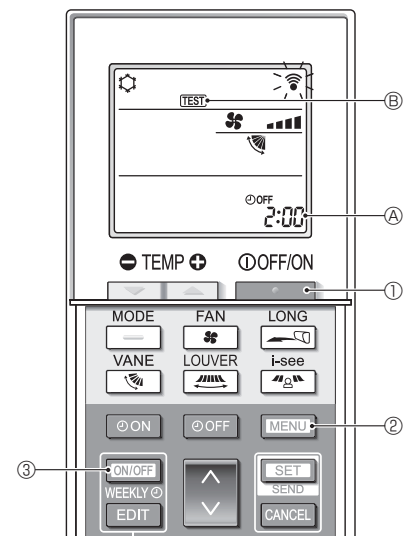
When the test run is completed, the "Test run menu" screen will appear.
The test run will automatically stop after 2 hours.

*The function is available only for the model with vanes.



11-4-2. PAR-SL101A-E

1. Press the  button ① to stop the air conditioner.
 - If the weekly timer is enabled (WEEKLY is on), press the  button ③ to disable it (WEEKLY is off).
2. Press the  button ② for 5 seconds.
 -  comes on and the unit enters the service mode.
3. Press the  button ②.
 -  ⑥ comes on and the unit enters the test run mode.
4. Press the following buttons to start the test run.
 - : Switch the operation mode between cooling and heating and start the test run.
 - : Switch the fan speed and start the test run.
 - : Switch the airflow direction and start the test run.
 - : Switch the louver and start the test run.
 - : Start the test run.
5. Stop the test run.
 - Press the  button ① to stop the test run.
 - After 2 hours, the stop signal is transmitted.



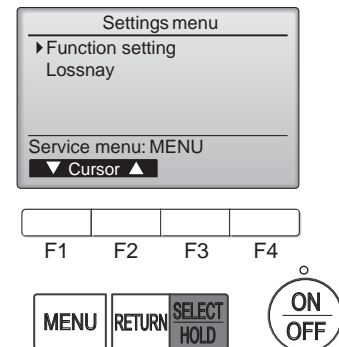
11-5. FUNCTION SETTING

11-5-1. PAR-41MAA

1. Select "Service" from the Main menu, and press the [SELECT/HOLD] button.

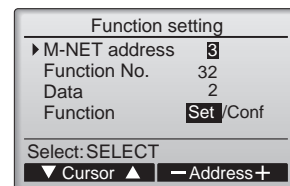
Select "Setting" from the Service menu, and press the [SELECT/HOLD] button.

Select "Function setting", and press the [SELECT/HOLD] button.



2. The Function setting screen will appear.

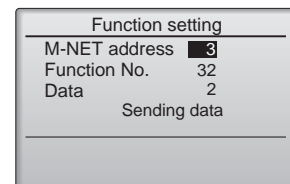
Press the [F1] or [F2] button to move the cursor to one of the following: M-NET address, function setting number, or setting value. Then, press the [F3] or [F4] button to change the settings to the desired settings.



Once the settings have been completed, press the [SELECT/HOLD] button.

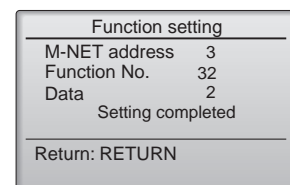
A screen will appear indicating that the settings information is being sent. To check the current settings of a given unit, enter the setting for its M-NET address and function setting number, select Conf for the Function, and press the [SELECT/HOLD] button.

A screen will appear indicating that the settings are being searched for. When the search is done, the current settings will appear.



When the settings information has been sent, a screen will appear indicating its completion.

To make additional settings, press the [RETURN] button to return to the screen shown in the above step. Set the function numbers for other indoor units by following the same steps.



Note:

- Refer to the indoor unit Installation Manual for information about the factory settings of indoor units, function setting numbers, and setting values.
- Be sure to write down the settings for all functions if any of the initial settings has been changed after the completion of installation work.

11-5-2. PAR-SL101A-E

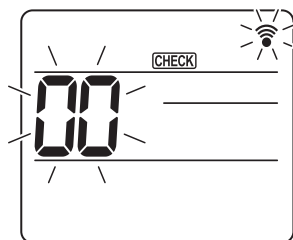


Fig. 11-1

1. Going to the function select mode
 Press the **[MENU]** button between of 5 seconds.
 (Start this operation from the status of remote controller display turned off.)
 [CHECK] is lit and "00" blinks. (Fig. 11-1)
 Press the **[↓]** button to set the "50".
 Direct the wireless remote controller toward the receiver of the indoor unit and press the **[SET]** button.

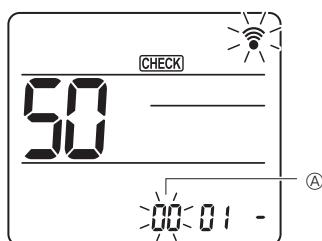


Fig. 11-2

2. Setting the unit number
 Press the **[↑]** button to set unit number ①. (Fig. 11-2)
 Direct the wireless remote controller toward the receiver of the indoor unit and press the **[SET]** button.

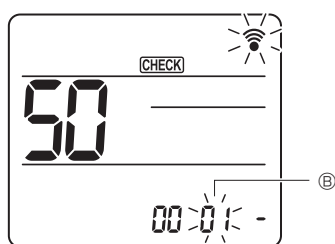


Fig. 11-3

3. Select a mode
 Press the **[↓]** button to set Mode number ②. (Fig. 11-3)
 Direct the wireless remote controller toward the receiver of the indoor unit and press the **[SET]** button.
 Current setting number:

1=1 beep (1 second)
2=2 beep (1 second each)
3=3 beep (1 second each)

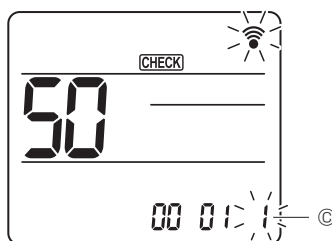


Fig. 11-4

4. Selecting the setting number
 Use the **[↓]** button to change the Setting number ③. (Fig. 11-4)
 Direct the wireless remote controller toward the receiver of the indoor unit and press the **[SET]** button.
5. To select multiple functions continuously
 Repeat select ③ and ④ to change multiple function settings continuously.
6. Complete function selection
 Direct the wireless remote controller toward the sensor of the indoor unit and press the **[OFF/ON *]** button.

Note:

Make the above settings on Indoor units as necessary.

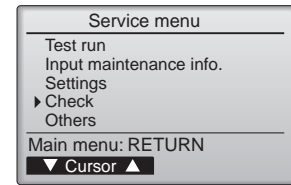
- Be sure to write down the settings for all functions if any of the initial settings has been changed after the completion of installation work.

11-6. ERROR HISTORY

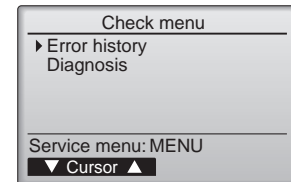
1. Select "Service" from the Main menu, and press the [SELECT/HOLD] button.



Select "Check" with the [F1] or [F2] button, and press the [SELECT/HOLD] button.

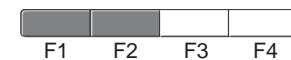
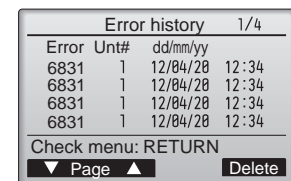


2. Select "Error history" with the [F1] or [F2] button, and press the [SELECT/HOLD] button.



3. 16 error history records will appear.

4 records are shown per page, and the top record on the first page indicates the latest error record.



4. Deleting the error history

To delete the error history, press the [F4] button (Delete) on the screen that shows error history.

A confirmation screen will appear asking if you want to delete the error history.

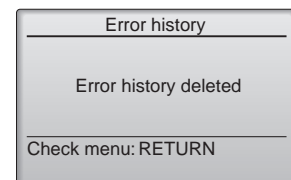
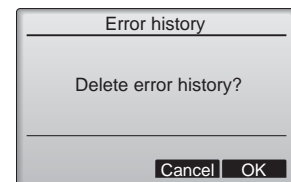


Press the [F4] button (OK) to delete the history.



"Error history deleted" will appear on the screen.

Press the [RETURN] button to go back to the Check menu screen.



11-7. SELF-DIAGNOSIS

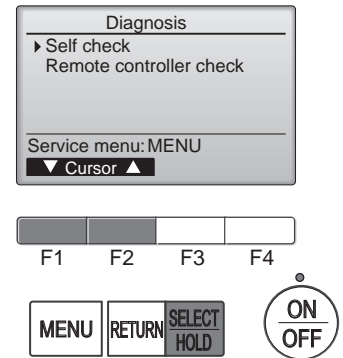
11-7-1. PAR-41MAA

1. Select "Service" from the Main menu, and press the [SELECT/HOLD] button.

Select "Check" from the Service menu, and press the [SELECT/HOLD] button.

Select "Diagnosis" from the Check menu, and press the [SELECT/HOLD] button.

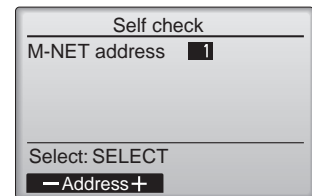
Select "Self check" with the **[F1]** or **[F2]** button, and press the [SELECT/HOLD] button.



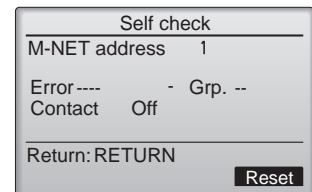
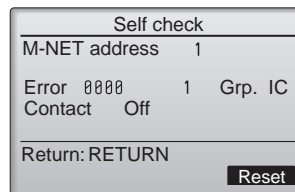
2. Select "Self check" from the Diagnosis menu, and press the [SELECT/HOLD] button to view the Self check screen.

With the **[F1]** or **[F2]** button, enter the M-NET address, and press the [SELECT/HOLD] button.

Check code, unit number, attribute, and indoor unit demand signal ON/OFF status at the contact will appear. "-" will appear if no error history is available.



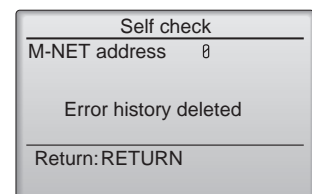
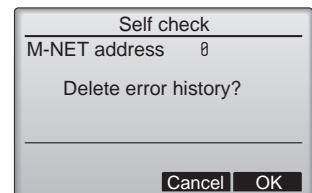
When there is no error history



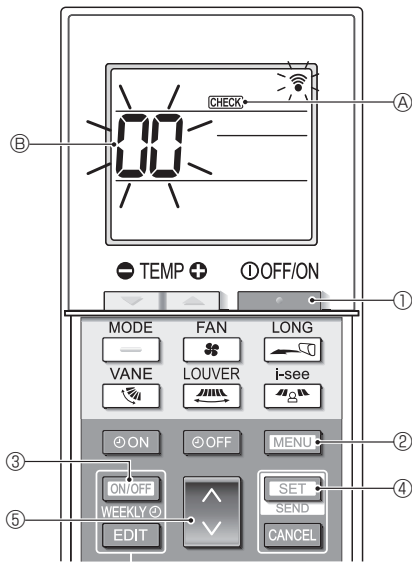
3. Resetting the error history

Press the **[F4]** button (Reset) on the screen that shows the error history. A confirmation screen will appear asking if you want to delete the error history.

Press the **[F4]** button (OK) to delete the error history. If deletion fails, "Request rejected" will appear, and "Unit not exist" will appear if indoor units that are correspond to the entered address are not found.



11-7-2. PAR-SL101A-E



- Press the **STOP** button ① to stop the air conditioner.
 - If the weekly timer is enabled (**WEEKLY** is on), press the **ON/OFF WEEKLY** button ③ to disable it (**WEEKLY** is off).
- Press the **MENU** button ② for 5 seconds.
 - CHECK** Ⓐ comes on and the unit enters the self-check mode.
- Press the **Up/Down** button ⑤ to select the refrigerant address (M-NET address) Ⓑ of the indoor unit for which you want to perform the self-check.
- Press the **SET** button ④.
 - If an error is detected, the check code is indicated by the number of beeps from the indoor unit and the number of blinks of the OPERATION INDICATOR lamp.
- Press the **STOP** button ①.
 - CHECK** Ⓐ and the refrigerant address (M-NET address) Ⓑ go off and the self-check is completed.

11-8. REMOTE CONTROLLER CHECK

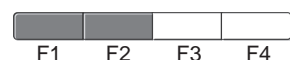
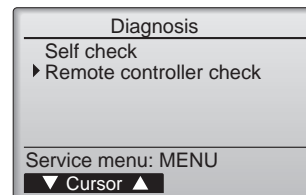
If operations cannot be completed with the remote controller, diagnose the remote controller with this function.

1. Select "Service" from the Main menu, and press the [SELECT/HOLD] button.

Select "Check" from the Service menu, and press the [SELECT/HOLD] button.

Select "Diagnosis" from the Check menu, and press the [SELECT/HOLD] button.

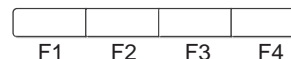
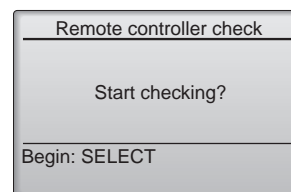
Select "Remote controller check" with the [F1] or [F2] button, and press the [SELECT/HOLD] button.



2. Select "Remote controller check" from the Diagnosis menu, and press the [SELECT/HOLD] button to start the remote controller check and see the check results.

To cancel the remote controller check and exit the "Remote controller check" menu screen, press the [MENU] or the [RETURN] button.

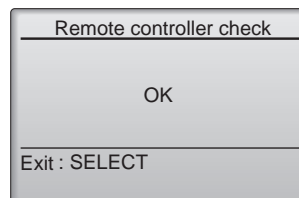
The remote controller will not reboot itself.



3.
 - OK: No problems are found with the remote controller. Check other parts for problems.
 - E3, 6832: There is noise on the transmission line, or the indoor unit or another remote controller is faulty. Check the transmission line and the other remote controllers.
 - NG (ALL0, ALL1): Send-receive circuit fault. The remote controller needs replacing.
 - ERC: The number of data errors is the discrepancy between the number of bits in the data transmitted from the remote controller and that of the data that was actually transmitted over the transmission line. If data errors are found, check the transmission line for external noise interference.

If the [SELECT/HOLD] button is pressed after the remote controller check results are displayed, remote controller check will end, and the remote controller will automatically reboot itself.

Remote controller check results screen



Check the remote controller display and see if anything is displayed (including lines). Nothing will appear on the remote controller display if the correct voltage (8.5–12 VDC) is not supplied to the remote controller. If this is the case, check the remote controller wiring and indoor units.

CITY MULTI

mitsubishi electric corporation

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

mitsubishi electric consumer products (thailand) co., ltd.
700/406 MOO 7, TAMBON DON HUA ROH,
AMPHUR MUANG, CHONBURI 20000 THAILAND
Published: Nov. 2023. No. TCH130
Made in Thailand

Specifications are subject to change without notice.