

LOSSNAY ENERGY RECOVERY VENTILATOR

HANDBOOK

MODELS

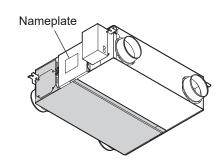
LGH-F300RVX2-E

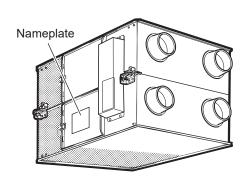
LGH-F380RVX2-E

LGH-F470RVX2-E

LGH-F600RVX2-E

LGH-F940RVX2-E LGH-F1200RVX2-E





Remote controller (Optional)

PZ-62DR-EA

PZ-43SMF-E

Filter (For replacement)

PZ-50RF9-E

PZ-65RF9-E

PZ-80RF9-E

PZ-100RF9-E

Warning:

Repair work must be performed by the manufacturer, its service agent or a similarly qualified person in order to avoid hazards.

MITSUBISHI ELECTRIC CORPORATION

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1. Safety precautions

- Read the following precautions thoroughly before the maintenance, and then inspect and repair the product in a safe manner.
- The types and levels of danger that may arise if the product is handled improperly are described with the warning symbols shown below.

Warning

Improper handling of the product may result in serious injury or death.

Electric shock

If you must inspect the circuitry while the power is on, do not touch the live parts.

(Failure to observe this warning may result in electric shock.)

Be sure to shut off the power supply isolator before disassembling the unit for repair.

(Failure to observe this warning may result in electric shock.)

Modification is prohibited

Do not modify the unit.

(Failure to observe this warning may result in electric shock, fire and/or injury.)



Caution against

Use proper parts and tools

For repair, be sure to use the parts listed in the parts catalog of the applicable model and use the proper tools.

(Failure to observe this warning may result in electric shock, fire and/or injury.)

Be sure to follow

Proper electric work

Qualified electricians shall conduct electric work in accordance with your local electric work regulations and the installation manuals.

(Improper connection or wiring installation may result in electric shock and/or fire.)



Be sure to follow this instruction.

Replace damaged and/or degraded parts

Be sure to replace the power cord and lead wires if they are damaged and/or degraded.

(Failure to observe this warning may result in electric shock and/or fire.)



Be sure to follow

♦ Check insulation

Upon completing repair work, always measure the insulation resistance. Verify that it is at least 10 $M\Omega$ (with a 500-V DC insulation resistance tester), and then turn on the power.

(Inadequate insulation may result in electric shock.)

Be sure to follow



Improper handling of the product may result in injury or damage to properties including buildings and equipment.

○ Caution for injury

Do not work at a location where you do not have a sure footing.

(Failure to observe this caution may result in a fall.)

♦ Wear gloves

Wear gloves when servicing.

(Failure to observe this caution may result in injury to your hands from sharp metal or other edges.)



Notes for servicing

- Inspect the earth condition, and repair it if it is incomplete. Make sure that a power supply isolator and an overload protection device are installed. If they are not installed, recommend the customer to install them.
- Make sure that the product operates properly upon completion of repair. Clean the product and the surrounding area, and then notify the customer of the completion of repair.

2. Changed points

	Ţ	
New model	Former model	Changes from the former model
LGH-F300RVX2-E	LGH-F300RVX-E	Filter grade was changed from MERV4 to MERV7.
LGH-F380RVX2-E	_	New control circuit board
LGH-F470RVX2-E	LGH-F470RVX-E	
LGH-F600RVX2-E	LGH-F600RVX-E	
LGH-F940RVX2-E	_	
LGH-F1200RVX2-E	LGH-F1200RVX-E	
PZ-62DR-EA	PZ-61DR-E	

3. Specifications

Model name	LGH-F300RVX2-E, LGH-F380RVX2-E, LGH-F470RVX2-E, LGH-F600RVX2-E, LGH-F940RVX2-E, LGH-F1200RVX2-E
Heat exchange system	Energy recovery ventilating system
Heat exchanger material	Special treated paper plate heat exchanger
Cladding	Galvanized steel sheet
Heat insulation material	Self-extinguishing urethane foam
Motor	EC motor
Filter	Non-woven fabrics filter (MERV7)
Surrounding air condition	Shall be between 14°F (-10°C) and 104°F (40°C), 80%RH or less
Suction air condition	Shall be lower than 104°F (40°C), 80%RH
Supply fan operation under low outdoor temperature	14°F (-10°C) to 5°F (-15°C): Intermittent operation 10 min OFF, 60 min ON 5°F (-15°C) or less: Sensing operation 55 min OFF, 5 min ON
Function	Energy recovery ventilation/Bypass ventilation, Fan speed 1, 2, 3, 4
Electrical power supply	Single phase 208-230 V / 60 Hz
Insulation resistance	10 MΩ or more
Dielectric strength	1000 V AC 1 minute

Model name	Input power	Air vo	olume	Specific Fan power	n Static pressure		Exchange efficiency (%)			Noise	Dia. of the centrifugal	Weight	
I I I I I I I I I I I I I I I I I I I	(W)	(CFM)	(CMH)	(W/CFM)	(InH2O)	(Pa)	Tempe-	Enth	alpy	(dB)	fan (Inch (mm))	(lbs)	(kg)
		(OI WI)	(OWIII)	(VV/OI IVI)	(1111120)	(1 4)	rature	Heating	Cooling			(103)	(Ng)
LGH-F300RVX2-E	235	300	510	0.78	1.00	250	65.5	63.0	50.0	37.0	8 3/4 (220)	75	34
LGH-F380RVX2-E	340	380	646	0.89	0.86	215	65.0	61.0	49.0	38.0	9 5/8 (245)	90	41
LGH-F470RVX2-E	425	470	799	0.91	1.00	250	69.0	64.0	51.0	40.0	9 5/8 (245)	110	50
LGH-F600RVX2-E	515	600	1019	0.86	0.86	215	67.0	64.0	50.0	41.0	9 5/8 (245)	123	56
LGH-F940RVX2-E	850	940	1597	0.91	1.00	250	69.0	64.0	51.0	43.0	9 5/8 (245)	225	102
LGH-F1200RVX2-E	1030	1200	2039	0.86	0.86	215	67.0	64.0	50.0	43.0	9 5/8 (245)	251	114

^{*} The above values apply during energy recovery ventilation when the fan speed is set to Fan speed 4 at the rating pressure loss and 230 V / 60 Hz.

- * Temperature Exchange efficiency (%) are average of summer and winter condition.
- * Mitsubishi Electric measures products according to ISO 16494:2014, therefore characteristic values are measured by chamber method.
- * On-site commissioning measurements by pitot tube method could be as much 20% different from ISO test room conditions. If the measuring point is close to sources of turbulence like bends, contractions and dampers, etc., it is difficult to measure air volume correctly. A straight duct length more than 10 D (D=duct diameter) from the source of turbulence is recommended for correct measurement. On-site measurement should therefore be measured in accordance with BSRIA guideline (Commissioning Air System. Application procedures for buildings AG3/89.3 (2001)).

■ Remote controller

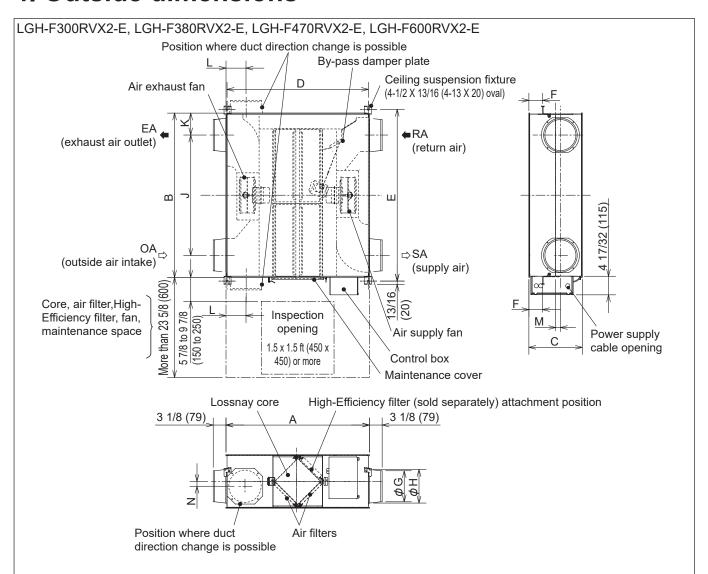
Model name	PZ-62DR-EA	PZ-43SMF-E				
Power supply requirement	12 V DC (Supplied from Lossnay unit)					
Power consumption	0.3 W					
Transmission cable	Non polarized 2-core cable (AW	G 22 (0.3 mm²) sheathed cable)				
Total wiring length	219 yd. (200 m) maximum					
Number of controllable Lossnay units	15 Lossnay units maximum (Max	c. 2 remote controllers installable)				
Environmental condition	Temperature: 32 to 104°F (0 to 40°C) Humidity: 30% to 90% relative humidity (no condensation)					
Size	4 22/32 x 4 22/32 x 3/4 inch (120 x 120 x 19 mm)	4 22/32 x 2 3/4 x 19/32 inch (120 x 70 x 15 mm)				
Weight	9/16 lbs (0.25 kg)	7/32 lbs (0.10 kg)				

^{*} For the specifications at the other frequency or voltages, see the spec. sheets.

^{*} The values given in the table for the noise level reflect the levels measured at a position 4.9 feet (1.5 m) immediately below the unit in an anechoic chamber.

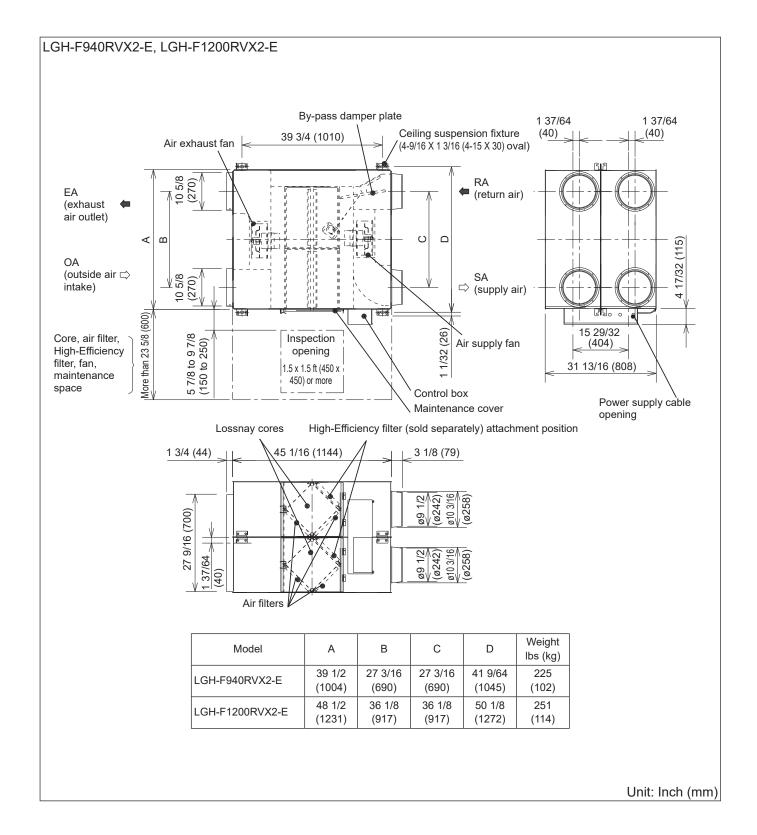
^{*} Noise change or increase may occur because of the Bypass-Automatic function or Automatic fan speed change by timer setting and/or other functions.

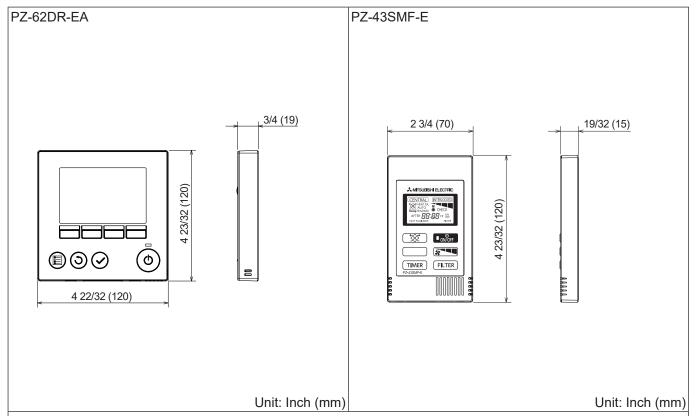
4. Outside dimensions



Model	Dimensions		fixture pitch		Nominal diameter	Duct connecting flange		Duct pitch			Weight			
	Α	В	С	D	E	F	ulameter	G	Н	J	K	L	М	lbs (kg)
LGH-F300RVX2-E	34 15/16		13 1/32	34 1/2	41 7/8	3 11/32	7 7/8	7 9/16	8 3/16	29 3/8	5 5/16	4 7/8	1 3/16	75
	(888)	(1016)	(331)	(875)	(1063)	(85)	(200)	(192)	(208)	(745)	(135.5)	(124)	(30)	(34)
LGH-F380RVX2-E	35 3/4	37 9/16	15 29/32	35 15/64	39 13/32	2 3/4	7 7/8	7 9/16	8 3/16	27 1/4	5 5/32	4 7/8	0	90
LOTI-1 JOURNAZ-L	(908)	(954)	(404)	(895)	(1001)	(70)	(200)	(192)	(208)	(692)	(131)	(124)		(41)
LGH-F470RVX2-E	45 1/16	39 1/2	15 29/32	44 17/32	41 3/8	3 1/32	9 7/8	9 1/2	10 3/16	27 3/16	6 3/16	6 1/2	1 37/64	110
LOTI-1470KVXZ-L	(1144)	(1004)	(404)	(1131)	(1051)	(77)	(250)	(242)	(258)	(690)	(157)	(165)	(40)	(50)
LGH-F600RVX2-E	45 1/16	48 1/2	15 29/32	44 17/32	50 5/16	3 1/32	9 7/8	9 1/2	10 3/16	36 1/8	6 3/16	6 1/2	1 37/64	123
LGI I-I 000IXVX2-L	(1144)	(1231)	(404)	(1131)	(1278)	(77)	(250)	(242)	(258)	(917)	(157)	(165)	(40)	(56)

Unit: Inch (mm)





PZ-50RF9-E, PZ-65RF9-E, PZ-80RF9-E, PZ-100RF9-E



Model		Dimension	ı		mber of per set	Applicable model
	Α	В	С	Supply	Exhaust	
PZ-50RF ₉ -E	18 1/2 (470)	7 13/64 (183)	25/32 (20)	2	2	LGH-F300RVX2-E
PZ-65RF ₉ -E	17 3/64 (433)	8 37/64 (218)	25/32 (20)	2	2	LGH-F380RVX2-E
PZ-80RF ₉ -E	17 3/4	9 9/16	25/32	2	2	LGH-F470RVX2-E
PZ-60KF9-E	(451)	(243)	(20)	4	4	LGH-F940RVX2-E
PZ-100RF ₉ -E	22 1/4	9 9/16	25/32	2	2	LGH-F600RVX2-E
F Z-100KF9-E	(565)	(243)	(20)	4	4	LGH-F1200RVX2-E

Notes:

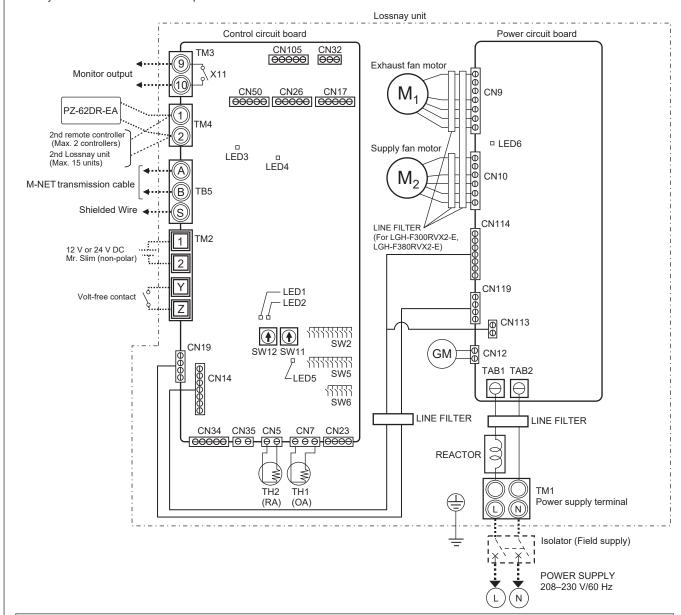
 Each Lossnay unit is provided with one set of the filters. (Two sets for LGH-F940RVX2-E and LGH-F1200RVX2-E)

Unit: Inch (mm)

5. Electrical wiring diagrams

LGH-F300RVX2-E, LGH-F380RVX2-E, LGH-F470RVX2-E, LGH-F600RVX2-E

- * Wiring for TM1, TM2, TM3, TM4, and TB5 shown in dotted lines are field work.
- * Be sure to connect the earth wire.
- * An all pole electric leakage isolator must be installed.
- * Always use an isolator for the main power connection.



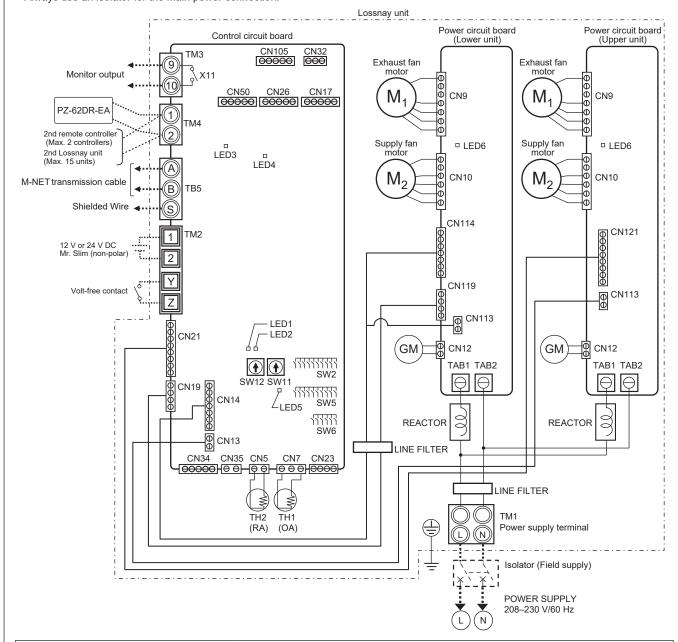
Definition of symbols							
M1: Motor for exhaust fan	CN5: Connector (Thermistor RA)	CN34: Connector (CO ₂ sensor output)					
M2: Motor for supply fan	CN7: Connector (Thermistor OA)	CN35: Connector (CO ₂ sensor input)					
GM: Motor for Bypass damper	CN9: Connector (Fan motor)	CN50: Connector (Optional components: External					
TH1: Thermistor for outdoor air	CN10: Connector (Fan motor)	monitor output)					
TH2: Thermistor for return air	CN12: Connector (Damper motor)	CN105: Connector (For IT communication)					
SW2, 5: Switch (Function selection)	CN17: Connector (Fan speed 1/2/3/4)	SW11: Address setting rotary switch (ones digit)					
SW6: Switch (Model selection)	CN14: Connector	SW12: Address setting rotary switch (tens digit)					
TM1: Terminal block (Power supply)	CN113: Connector	LED1: Inspection indicator lamp					
TM2: Terminal block (External control input)	CN114: Connector	LED2: M-NET indicator lamp					
TM3: Terminal block (Monitor output)	CN19: Connector	LED3: Remote controller power supply indicator lamp					
TM4: Terminal block (Remote controller transmission cable)	CN119: Connector	LED4, LED6: Power supply indicator lamp					
TB5: Terminal block (M-NET transmission cable)	CN23: Connector (CO ₂ sensor power supply)	LED5: CO2 sensor power supply indicator lamp					
TAB1, TAB2: Connector (Power supply)	CN26: Connector (Bypass switching/CO ₂ sensor input)	(When the CO ₂ sensor is connected)					
X11: Relay contact	CN32: Connector (Remote control selection)	SYMBOL : Terminal block, : Connector on PCB					

Select proper isolator according to the electrical current information in the chart below.

Model		LGH-F300RVX2-E	LGH-F380RVX2-E	GH-F380RVX2-E LGH-F470RVX2-E	
Maximum current when operating [A]		3.40 3.10 4.05			4.15
Inrush current after power	10 ms		.1		
supply ON [A]	100 ms				

LGH-F940RVX2-E, LGH-F1200RVX2-E

- * Wiring for TM1, TM2, TM3, TM4, and TB5 shown in dotted lines are field work.
- * Be sure to connect the earth wire.
- * An all pole electric leakage isolator must be installed.
- * Always use an isolator for the main power connection.



Definition of symbols M1: Motor for exhaust fan CN7: Connector (Thermistor OA) CN32: Connector (Remote control selection) CN34: Connector (CO₂ sensor output) M2: Motor for supply fan CN9: Connector (Fan motor) CN10: Connector (Fan motor) GM: Motor for Bypass damper CN35: Connector (CO2 sensor input) TH1: Thermistor for outdoor air CN12: Connector (Damper motor) CN50: Connector (Optional components: External TH2: Thermistor for return air CN17: Connector (Fan speed 1/2/3/4) monitor output) CN105: Connector (For IT communication) SW2, 5: Switch (Function selection) CN13: Connector SW11: Address setting rotary switch (ones digit) SW6: Switch (Model selection) CN14: Connector SW12: Address setting rotary switch (tens digit) TM1: Terminal block (Power supply) CN113: Connector TM2: Terminal block (External control input) CN114: Connector LED1: Inspection indicator lamp LED2: M-NET indicator lamp TM3: Terminal block (Monitor output) CN19: Connector LED3: Remote controller power supply indicator lamp TM4: Terminal block (Remote controller transmission cable) CN119: Connector LED4, LED6: Power supply indicator lamp TB5: Terminal block (M-NET transmission cable) CN21: Connector TAB1, TAB2: Connector (Power supply) CN121: Connector LED5: CO2 sensor power supply indicator lamp (When the CO₂ sensor is connected) CN23: Connector (CO2 sensor power supply) X11: Relay contact CN5: Connector (Thermistor RA) CN26: Connector (Bypass switching/CO₂ sensor input) SYMBOL © □ : Terminal block, 回 : Connector on PCB

Select proper isolator according to the electrical current information in the chart below.

Model		LGH-F940RVX2-E	LGH-F1200RVX2-E		
Maximum current when ope	erating [A]	8.10	8.30		
Inrush current after power	10 ms	12.2			
supply ON [A]	100 ms	7.2			

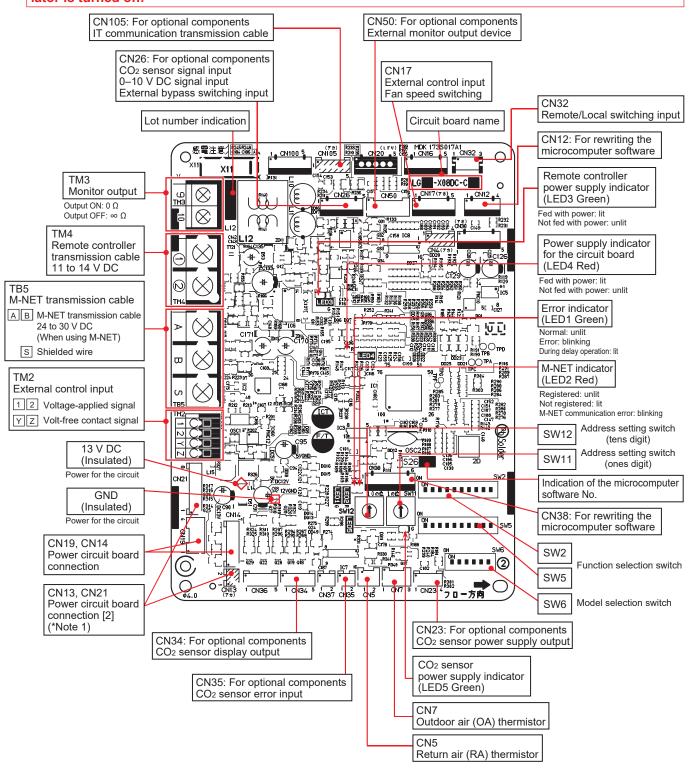
6. Circuit board diagrams

Circuit board diagrams and check points

(1) Control circuit board

Caution:

Before servicing (including replacing the circuit boards), be sure to turn off the power supply isolator and check that all the LEDs on the control circuit board and power circuit board are not lit. A large-capacity electrolytic capacitor on the circuit board may carry voltage for several minutes after the isolator is turned off.



*Note 1: The connection is available only for the following models. LGH-F940RVX2-E, LGH-F1200RVX2-E

(2) Power circuit board

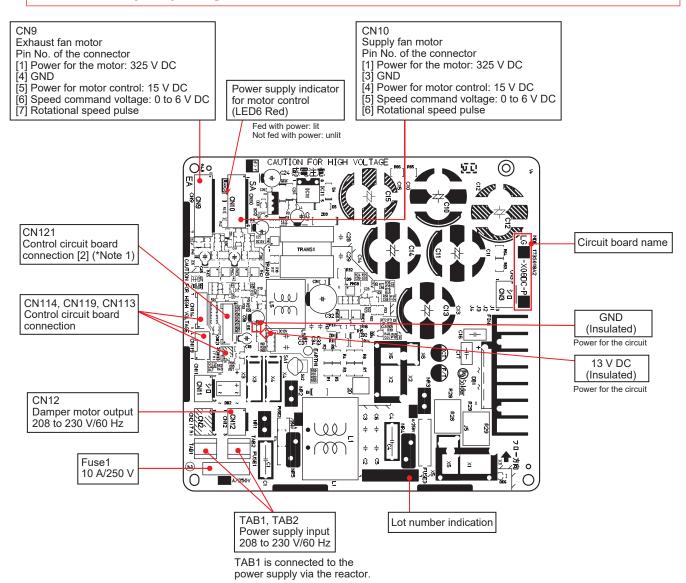
There are three types of the power circuit board. The type of the power circuit board varies depending on the model of the Lossnay unit.

When replacing the circuit board, use the applicable circuit board according to the table below.

Power circuit board	Lossnay unit
LG-X08DC-P4	LGH-F300RVX2-E, LGH-F380RVX2-E
LG-X08DC-P6	LGH-F470RVX2-E, LGH-F600RVX2-E
LG-X08DC-P5	LGH-F940RVX2-E, LGH-F1200RVX2-E
LG-X08DC-P6	(Equipped with two types of the power circuit board)

Caution:

The power circuit consists of live parts. The power circuit board is not insulated from the power line, except for the connection part with the control circuit board. Before servicing (including replacing the circuit boards), be sure to turn off the power supply isolator and check that all the LEDs on the control circuit board and power circuit board are not lit. A large-capacity electrolytic capacitor on the circuit board may carry voltage for several minutes after the isolator is turned off.



*Note 1: The connection is available only for the following models. LGH-F940RVX2-E, LGH-F1200RVX2-E

7. Troubleshooting

■ Work precautions

- Before starting the service, the power supply isolator must be turned off. Pay sufficient attention to avoid electric shock or injury.
- When removing or touching the cables, circuit boards or other parts, be sure to turn off the power supply isolator.
- Even after the power supply isolator is turned off, the capacitor on the circuit board retains high voltage for a while.

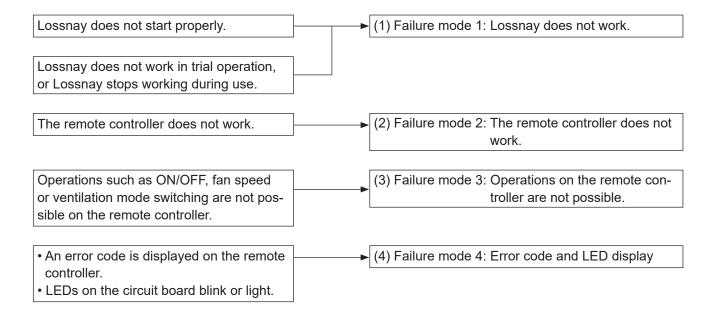
 Therefore, before servicing, wait for at least five minutes, and then use a tester to check that the voltage has dropped.
- Once the power supply is turned off, be sure to wait for at least five minutes before turning the power back on again.
- When servicing, power supply to M-NET must be turned off. Live-line working may cause a circuit board failure.
- When servicing, recreate the malfunction two or three times before starting repairs.
- · When servicing, always keep proper footing.
- When disconnecting the motor connectors, make sure that the power supply is turned off. Even when the fan motor is stopped, disconnecting the live-line connectors will cause a motor malfunction.
- When removing the circuit board, always hold it at both ends and remove carefully in order not to apply force to the surface mounted parts.
- When removing the circuit board, be careful of the metal edges on the board.
- When removing or inserting the connectors for the circuit board, hold the entire housing section. Never pull on the lead wires.
- When circuit board failure is considered to be a cause, check closely for any broken section on the copper foil patterns, burning or discoloration of parts.
- If the circuit board is replaced, make sure that the switch settings on the new board are the same as the old board.
- Be sure to connect the power supply wires correctly.
- When carrying out wiring, power supply to M-NET must be turned off, otherwise it will cause a malfunction.

7-1 Service flowchart

After checking the check items below, follow the troubleshooting for servicing.

Applicable Device	Applicable Model
Lossnay Heat recovery Ventilator	LGH-F300RVX2-E, LGH-F380RVX2-E, LGH-F470RVX2-E, LGH-F600RVX2-E, LGH-F940RVX2-E, LGH-F1200RVX2-E
Lossnay Remote Controller	PZ-62DR-EA, PZ-43SMF-E

No.	Preliminary check item	Details	
1	Product information	 Model name of the product Serial number of the product, manufacturing lot number of the circuit board Microcomputer software version marked on the circuit board 	
2	Fault status	 Fault status (For example, the fan does not operate.) Error code display on the remote controller Operation setting of the remote controller (ventilation mode setting, fan speed setting, etc.) 	
3	Frequency of fault occurrence	 Frequency of fault occurrence (frequency of date and time of occurrence, regularity of occurrence, etc.) Operating time up to fault occurrence Date of start of use, date of fault occurrence 	
4	Timing of fault occurrence	Remote controller operation performed before fault occurrence Operating status, etc.	
5	System settings	 Function selection switch settings and address setting of the product Model name and address setting of the Lossnay remote controller or syste controller, etc. Function settings on PZ-62DR-EA when PZ-62DR-EA is used 	
6	System drawings	System Configuration Wiring Record of the Lossnay function setting statuses	



7-2 Check Details

(1) Failure mode 1: Lossnay does not work.

Initial Check Items

Check the following details if Lossnay does not work.

[1] Power supply

No.	Check Item	Corrective action
1	Is the main power supply on?	Turn the main power supply on.
2	Is the current capacity of the power supply isolator appropriate?	Use an appropriate power supply isolator.
3	Is the designated cable used for the power supply cable?	Use the designated cable.
4	Is the specified power supply supplied to the power supply terminal (TM1)? 208–230 V/60 Hz	Supply the specified power supply.
5	Is the power supply cable incorrectly wired, is there a faulty connection or are screws loose?	Connect the cable securely and correctly, and tighten the screws firmly.
6	Is there a faulty connection on the power supply terminals (TM1, TAB1, and TAB2)?	Connect the lead wires securely.
7	Is there a faulty connection to the reactor?	Connect the lead wires securely.
8	Are the power supply indicator lamps (LED4 on the control circuit board and LED6 on the power circuit board, red) lit?	The LED lights while power is supplied. If not lit, check the above items.

[2] Transmission cables (remote controller transmission cable, M-NET transmission cable, external input/output signal cable, and connection cable for IT communication appliances)

No.	Check Item	Corrective action
1	Are the designated cables used for the remote controller transmission cable and M-NET transmission cable? (See Table 2-1 and Table 2-2.)	Use the designated transmission cables.
2	Are the designated cables used for the external input/output signal cable? (See Table 2-3.)	Use the designated cables.
3	Are the transmission cables wired using multicore cables?	Use the designated transmission cables.
4	Are multiple transmission cables wired in the same piping duct?	Wire the transmission cable away from one another.
5	Is the power supply cable wired at least 2 in. (5 cm) away from transmission cables?	Wire the power supply cable at least 2 in. (5 cm) away from the transmission cables.
6	Are the transmission cables connected to the designated terminal block? (See Table 2-1 and Table 2-2.)	Connect the transmission cables to the designated terminal blocks.
7	Are the transmission cables incorrectly wired, is there a faulty connection or are screws loose?	Connect the cable securely and correctly, and tighten the screws firmly.
8	Is the wiring length of the transmission cable within the regulations? (See Table 2-1 and Table 2-2.)	Wire the cables within the regulations.
9	Are communication cables wired at least 2 in. (5 cm) away from the other communication cables?	Wire the cables at least 2 in. (5 cm) away from the other cables.
10	Does the external input signal match the specifications? (See Table 2-3.)	Input the signal that matches the specifications.
11	Is the external input signal input to the Lossnay set as the main Lossnay?	Input the signal to the Lossnay set as the main Lossnay (with address number 1 or the smallest number other than 0).

Table 2-1 M-NET transmission cable specifications

	'
Cable	M-NET transmission cable
Туре	Shielded cable CVVS, MVVS
Number of cores	2-core cable
Cable diameter	AWG 16 (1.25 mm ²)
Max. extension (Note 1)	219 yd. (200 m)
Total extension (Note 2)	547 yd. (500 m)
Terminal block	TB5 [A] [B]

(Note 1) Distance from the power supply unit to the furthest unit or system controller (Note 2) Overall length of the cable between the units and the system controllers

Table 2-2
Remote controller transmission cable specifications

Cable	PZ-62DR-EA or PZ-43SMF-E transmission cable	
Type Sheathed cable		
Number of cores	2-core cable	
Cable diameter	AWG 22 (0.3 mm ²)	
Total extension	219 yd. (200 m)	
Terminal block	TM4 [1] [2]	

Table 2-3 External input/output specifications

Function Name	Terminal or connector on the circuit board	Signal specifications	Materials Used	Total extension
External control input (volt-free contact) (Note 4)	TM2 [Y] [Z]	Level/pulse (Note 1)	Twisted lead AWG 20 (0.5 mm²) to AWG 15 (1.5 mm²)	547 yd. (500 m)
External control input (12 V DC, 24 V DC) (Note 4)	TM2 [1] [2]	Level/pulse (Note 1)	Twisted lead AWG 20 (0.5 mm²) to AWG 15 (1.5 mm²)	(Note 2)
Mr. Slim indoor unit control signal	TM2 [1] [2]	Serial signal	Slim-Lossnay connection cable (Accessory parts) AWG 20 (0.5 mm ²) to AWG 15 (1.5 mm ²) sheathed PVC cable	55 yd. (50 m)
Remote/local switching (Note 4)	CN32 [1] [3]	Level	Remote ON/OFF adaptor	
Remote ON/OFF input (Note 4)	CN32 [1] [2]	(Volt-free contact)	(PAC-SE55RA-E or PAC-715AD)	
Fan speed 4 input (volt-free contact) (Note 3)	CN17 [1] [2]			
Fan speed 3 input (volt-free contact) (Note 3)	CN17 [1] [3]		vel e contact) Remote display adaptor (PAC-SA88HA-E or PAC-725AD)	11 yd. (10 m)
Fan speed 2 input (volt-free contact) (Note 3)	CN17 [1] [4]	Level (Volt-free contact)		
Fan speed 1 input (volt-free contact) (Note 3)	CN17 [1] [5]			
Bypass mode input (volt-free contact) (Note 3)	CN26 [1] [2]			
Fan speed switching input (0 to 10 V DC) (Note 3)	CN26 [4] [5]	Analog		

<Caution>

• In the group with the multiple Lossnay units, input the signals to the main Lossnay (with address number 1 or the smallest number other than 0).

(Note 1) The input signal must conform to the following specifications:

Level signal Volt-free contact, 12 V DC, 24 V DC

Pulse signal Volt-free contact, 12 V DC, 24 V DC, the duration of ON and OFF should be 200 msec. or more

In the case of relay contact input, use a relay having a contact rating of 15 V DC/0.1 A or higher and a minimum applicable load of 1 mA or less.

(Note 2) Check the specifications of the external device.

(Note 3) In the group with the multiple Lossnay units, make sure that:

- Connect the signal cables only to the main Lossnay unit when controlling the all Lossnay units together using PZ-62DR-EA.
- Connect the signal cables to each Lossnay unit when controlling the Lossnay units individually without using PZ-62DR-EA.
- The optional CO₂ sensor (PZ-70CSW-E, PZ-70CSB-E) cannot be used together.

(Note 4) In the group with the multiple Lossnay units, input the signal only to the main Lossnay unit (with address number 1 or the smallest number other than 0).

[3] Monitor output signal cable

No.	Check Item	Corrective action
1	Is the signal cable wired by multicore cable?	Wire the cable using a 2-core cable.
2	Are the signal cables and transmission cables wired in the same piping duct?	Wire the signal cables away from the transmission cables.
3	Is the power supply cable wired at least 2 in. (5 cm) away from signal cables?	Wire the power supply cable at least 2 in. (5 cm) away from the signal cables.
4	Is the signal cable connected to the designated terminal block? (See Table 3-1.)	Connect the signal cable to the designated terminal block.
5	Is the signal cable incorrectly wired, is there a faulty connection or are screws loose?	Connect the cable securely and correctly, and tighten the screws firmly.
6	Is the output capacity of the signal cable within rating? (See Table 3-1.)	Use the signal cable within rating.
7	Is the function selection for the external output signal set correctly?	Set the function selection switches (SW5-1 and 5-2) on the circuit board correctly, or set the function settings (No. 12 to 16) of PZ-62DR-EA correctly.

Table 3-1 Monitor output specifications

Terminal block	TM3 [9] [10]
Function Name	Operation monitor (Factory default setting) (Note 1)
Signal specifications Volt-free contact	
Output rating	240 V AC, 1 A
Output rating	24 V DC, 1 A
Min applicable load	208 V AC, 100 mA
Min. applicable load	5 V DC, 100 mA

(Note 1) Output can be changed with function settings.

[4] Function setting

No.	Check Item	Corrective action
1	Is the main Lossnay (and its address setting) set correctly?	Check the address setting switches (SW11, SW12) on the circuit board. When controlling with external input signals without connecting to MELANS, set one of the units in the group as the main Lossnay (with address number 1 or the smallest number other than 0). Connect the signal cables to the main Lossnay unit.
2	Are the function selection switches on the circuit board set correctly to suit the required application?	Set the function selection switches (SW2, SW5) on the circuit board correctly.
3	Is the applicable model used as the Lossnay remote controller?	Use PZ-62DR-EA or PZ-43SMF-E. (The air conditioner remote controller including PAR-40MAA cannot be used.)
4	When PZ-62DR-EA is used, are the function selections set correctly to suit the required application?	Set the function selections correctly. After setting the functions with PZ-62DR-EA, operating the model selection switch (SW6) or address setting switches (SW11, SW12) on the control circuit board resets the settings to the initial settings.
5	For a function that can be set with both PZ-62DR-EA and the function selection switches on the control circuit board, was the function set with the function selection switches after the function is set with PZ-62DR-EA?	Set the function again with PZ-62DR-EA. For the function that can be set with both PZ-62DR-EA and the function selection switches, after the function was set with PZ-62DR-EA, setting with the function selection switches is disabled.

[5] LED Indications on the circuit boards

No.	LED	Contents	Check Item	Corrective action
1	LED1 (green)	Lossnay unit error indicator	Blinking: Starting up, error occurred	In the case of an error, see Failure Mode 4.
			Lit: During delay operation	Lossnay operates after the delay time has passed.
			Unlit: Other than above	It is normal.
2		M-NET System	Blinking: Error occurred	See Failure Mode 4.
	(red)	error indicator	Lit: No M-NET connection information	When not using M-NET, it is normal. When using M-NET, perform group registration with the system controller.
			Unlit: Other than above	It is normal.
3		Remote control- ler power supply	Lit: Power supplied to the remote controller (Main Lossnay)	The LED goes out when power is supplied to the remote controller from other
		indicator	Unlit: Power not supplied to the remote controller (Sub Lossnay)	Lossnay units in a group with multiple Lossnay units.
4	LED4 (red)	Power supply indicator (control circuit board)	Check that this LED is lit.	The LED lights while power is supplied to the control circuit board. (Do not touch the circuit board when the LED is lit to avoid electric shock.)
5	LED6 (red)	Power supply indicator (power circuit board)	Check that this LED is lit.	The LED lights while power is supplied to the power circuit board. (Do not touch the circuit board when the LED is lit to avoid electric shock.)

• Individual function check items

[6] If Lossnay does not work in the trial operation, or if Lossnay stops working during use, check the following items.

No.	Problem	Factor	Corrective action
1	The fan does not operate even though the trial operation switch (SW2-1) on the circuit board is turned ON.	The connectors between the fan motor and circuit board are disconnected.	Check the connector (CN9) for the exhaust fan motor and the connector (CN10) for the supply fan motor. *Before connecting or disconnecting the motor connectors (CN9, CN10), turn off the power supply isolator, and check that the all LEDs on the circuit board are not lit.
		The connectors between the control circuit board and power circuit board are disconnected.	Check the connector connections. Control circuit board: CN14, CN19, (CN21)* Power circuit board: CN114, CN119, (CN121)* *Only for LGH-F940/1200 types.
		Fan motor failure	If the fan can be turned manually, replace the DC motor of the fan. Check the resistance between the motor leads. (See (6) Motor resistance table (page 39).) If the measured value is significantly different from the values specified in the table, replace the DC motor of the fan.
		Circuit board failure	If LED6 located between CN9 and CN10 on the power circuit board is not lit, check power supply to TAB1 and TAB2. If no error is found with power supply, replace the power circuit board. If the problem persists, replace the DC motor of the fan.
		Power with the rated voltage is not supplied to the product.	Check the power supply voltage.
2	Though the remote controller display indicates the fan is running, the fan	The Lossnay unit is operating in the protective mode (intermittent operation).	When PZ-62DR-EA is used, it displays the icon """ that indicates the protective operation is in-progress. For details, see the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.
	stops by itself.	The Lossnay unit is set to the delay operation.	When PZ-62DR-EA is used, it displays the icon "%" that indicates the delay operation is in-progress. When PZ-43SMF-E is used, it displays the icon "(INTERCOCKED" and the timer duration. LED1 (green) on the control circuit board lights. Lossnay operates in 30 minutes (or 15 minutes) after the interlocked air conditioner is operated to run. Check the function selection switch (SW2-3) on the circuit board or the function setting (No. 9) of PZ-62DR-EA.
		The interlocked air conditioner (Mr. Slim indoor unit or City Multi indoor unit) is stopped due to defrosting.	The supply fan has been stopped to prevent cold air from blowing out. When the air conditioner starts operating, the fan operation is started automatically.
		The ventilation switching damper is operating.	The fan stops while the ventilation switching damper is operating. Also, the fan may stop temporarily to check the damper operation regularly.

No.	Problem	Factor	Corrective action
3	[When wall-mounted type CO ₂ sensor PZ-70CSW-E is used] The LED display lamps of the CO ₂ sensor do not	CO ₂ sensor setting is set incorrectly.	Check the setting. • When the function setting (No. 66) of PZ-62DR-EA is set to "0", the function selection switches (SW5-6 to SW5-8) on the Lossnay circuit board should be: SW5-6 ON, SW5-7 OFF, SW5-8 OFF • When the function setting (No. 66) of PZ-62DR-EA is set to other than "0", set it to "5".
	light even though the trial operation switch (SW2-1) on the Lossnay circuit board is turned ON.	The connectors between the LED circuit board (of the CO ₂ sensor) and control circuit board (of the Lossnay unit) are disconnected. The lead wires connecting the LED circuit board (of the CO ₂ sensor) and control circuit board (of the Lossnay unit) are broken.	Check the connector connections. LED circuit board: CN100 Control circuit board: CN34 For details about the CO2 sensor PZ-70CSW-E, see its Installation and Instruction Manual. Measure the voltage between the pins of connector (CN100) with the trial operation switch (SW2-1) ON. When the values shown below are detected,
			 applied in a cycle of 20-second 0 V and 10-second 12 V DC. Between the pins 1 and 3 of CN100, voltage is applied in a cycle of 20-second 0 V and 10-second 12 V DC. Between the pins 1 and 4 of CN100, voltage is applied in a cycle of 20-second 0 V and 10-second 12 V DC. When extending the CO₂ sensor wiring cables, check that they are properly connected. For details about the CO₂ sensor PZ-70CSW-E, see its Installation and Instruction Manual.
		LED circuit board failure	If the problem persists, replace the wall-mounted type CO ₂ sensor. For details about the CO ₂ sensor PZ-70CSW-E, see its Installation and Instruction Manual.
4	[When wall-mounted type CO ₂ sensor PZ-70CSW-E is used]	Ventilation air volume by the Lossnay unit is large enough or too small against the change in the number of persons in a room.	In this case, CO ₂ concentration displayed value may be always low or high.
	CO ₂ concentration display of PZ-62DR-EA does not change even though the number of persons in a room is changed.	The lead wires connecting the CO ₂ sensor circuit board and Lossnay control circuit board are broken.	If the lead wire to pin 3 of the connector on the CO ₂ sensor circuit board is broken, detected CO ₂ concentration value may be fixed. When extending the CO ₂ sensor wiring cables, check that they are properly connected. For details about the CO ₂ sensor PZ-70CSW-E, see its Installation and Instruction Manual.
	G The state of the	The lead wires connecting the LED circuit board (of the CO ₂ sensor) and control circuit board (of the Lossnay unit) are broken.	Check the connector connections. LED circuit board: CN100 Control circuit board: CN34
5	The fan does not stop even though the remote controller is operated to stop operation.	The pre-heater or operation monitor with delay operation is set to be used.	If the pre-heater or operation monitor with delay operation is set to be used, the fan continues operating for three minutes after the stop operation. Check the function settings (No. 12 to 16) of PZ-62DR-EA. (See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)

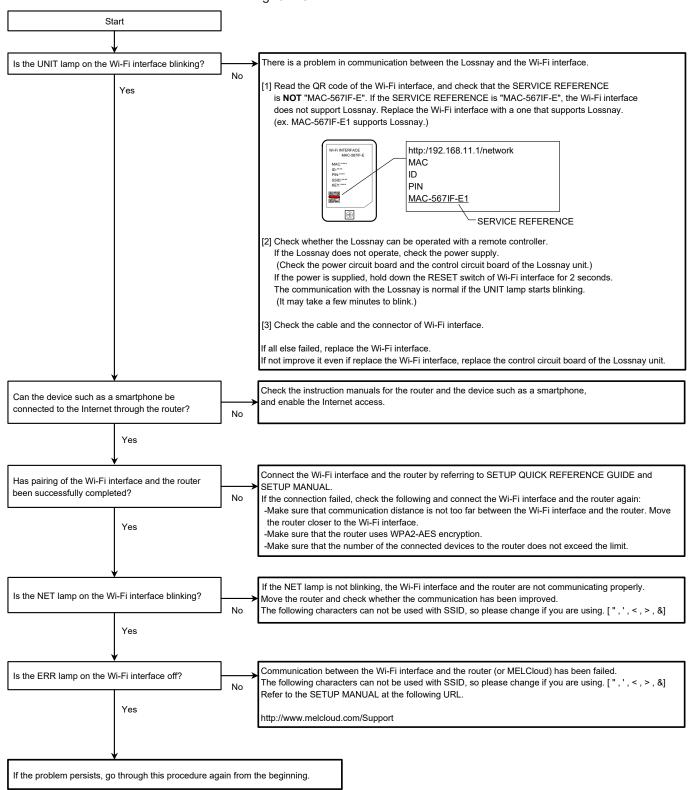
No.	Problem	Factor	Corrective action
6	Even though the remote controller is operated to change the fan speed, the fan speed does not	The indoor negative pressure setting or the indoor positive pressure setting is set.	Check the function selection switches (SW2-4 and SW2-5) on the circuit board or the function settings (No. 6 and 7) of PZ-62DR-EA. (See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)
	change.	The external fan speed input is set. (CN17)	When PZ-62DR-EA is used, it displays the icon "%". Check the fan speed switching input (CN17).
		The external fan speed input is set. (CN26)	When PZ-62DR-EA is used, it displays the icon "%". Check the function selection switches (SW5-6, SW5-7, and SW5-8) on the circuit board or the function setting (No. 66) of PZ-62DR-EA. (See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)
		The system is operating in the protective mode (intermittent operation).	When PZ-62DR-EA is used, it displays the icon """ that indicates the protective operation is in-progress. For details, see the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.
		Airflow setting is performed with PZ-62DR-EA.	Check the "Airflow" screen or the function settings (No. 73 to 78, 87, and 88) of PZ-62DR-EA. (See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)
7	The fan operation is unstable.	The motor rotation speed is under control.	This product controls the motor by detecting the motor rotation speed. The fan operation may be unstable during rotation speed control (for maximum about 10 minutes).
8		The model selection switch (SW6) is not set correctly after the circuit board is replaced.	Make the SW6 setting appropriate for the model. (See Chapter 8. (8) Setting status record (page 52).)
9	The damper does not operate even though the trial operation switch (SW2-1) on the circuit board is turned ON.	The connector between the damper motor and circuit board is disconnected.	Check the connection of the connector (CN12) on the power circuit board.
		Mechanical failure	Remove the rod of the damper board, and check that the damper board can be moved by hand. If the damper board cannot be moved, check for obstacles that are obstructing the movement of the damper board.
		Damper motor failure	Remove the rod of the damper board and turn the trial operation switch (SW2-1) ON. The damper motor operates in about 30 seconds. If the damper motor does not operate, replace the damper motor (GM assembly).
		Circuit board failure	Disconnect the connector (CN12) from the power circuit board and check the voltage value between the pins of CN12 when the trial operation switch (SW2-1) is turned ON. If there is no voltage value, replace the power circuit board.
			If the problem persists, replace the damper motor (GM assembly).
		Poor connection of the connectors	Check the connector connections. Control circuit board: CN14, (CN13)* Power circuit board: CN113, (CN113 (Upper unit))* *Only for LGH-F940/1200 types.

No.	Problem	Factor	Corrective action
10	Even though the remote controller is	The outdoor temperature is 46.4°F (8°C) or lower.	When the outdoor temperature is 46.4°F (8°C) or lower, the ventilation mode is fixed to the Heat
	operated to change the ventilation mode, the ventilation mode is not changed.	The signal is input to the Bypass mode switching input (CN26 [1] [2]).	recovery mode. Check the Bypass mode switching input (CN26 [1] [2]). (See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)
		The Lossnay unit is performing the Night-purge operation.	When PZ-62DR-EA is used, The ventilation mode cannot be changed during the Night-purge operation. (See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)
		The pre-heater is ON, or within one hour after the pre-heater is turned OFF.	the pre-heater is turned OFF, the ventilation mode is fixed to the Heat recovery mode.
11	The ventilation mode cannot be switched when Lossnay is operat-	mode is not satisfied.	Check the temperature map. For details, see the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.
	ing in the automatic mode.	It has not passed 30 minutes since the ventilation mode is switched.	Switching of the ventilation mode is controlled in 30 minutes cycle.
		The outdoor temperature is 46.4°F (8°C) or lower.	When the outdoor temperature is 46.4°F (8°C) or lower, the ventilation mode is fixed to the Heat recovery mode.
		The signal is input to the Bypass mode switching input (CN26 [1] [2]).	Check the Bypass mode switching input (CN26 [1] [2]). (See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)
		The operation mode of the interlocked air conditioner (Mr. Slim indoor unit or City Multi indoor unit) is set to fan operation or heating.	If the operation mode of the interlocked air conditioner is fan operation or heating, the ventilation mode of Lossnay is fixed to the Heat recovery mode.
		The pre-heater is ON, or within one hour after the pre-heater is turned OFF.	When the pre-heater is ON, or for one hour after the pre-heater is turned OFF, the ventilation mode is fixed to the Heat recovery mode.
12	Air volume is too	Is the air filter clogged?	Clean the air filter.
	small.	Pressure loss in the duct is too high.	Set the supply/exhaust fan power up setting. (See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)
		The model selection switch (SW6) is not set correctly after the circuit board is replaced.	Make the SW6 setting appropriate for the model. (See Chapter 8. (8) Setting status record (page 52).)
		The indoor negative pressure setting or the indoor positive pressure setting is set.	Check the function selection switches (SW2-4 and SW2-5) on the circuit board or the function settings (No. 6 and 7) of PZ-62DR-EA. (See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)
		Power supply voltage is low.	Check the power supply voltage.
		In interlock with the air conditioner, the outdoor air intake port of the Lossnay unit is connected with the air conditioner by using a duct.	In this case, even if the Lossnay remote controller is operated to start Lossnay while the air conditioner is stopped, Lossnay will not supply air.
		Airflow setting is performed with PZ-62DR-EA.	Check the "Airflow" screen or the function settings (No. 73 to 78, 87, and 88) of PZ-62DR-EA. (See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)

No.	Problem	Factor	Corrective action
	Actual fan speed	The signal is input to the fan	Check the fan speed input (CN17).
	of the Lossnay unit differs from the fan	speed input (CN17).	(See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)
	speed set with the remote controller.	The signal (0 to 10 V DC) is input to the fan speed switching input (CN26 [4] [5]).	Check the fan speed switching input (CN26 [4] [5]). (See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)
		Function setting (No. 8) of PZ-62DR-EA "Max. fan speed setting during the first 30 minutes" is enabled.	Lossnay operates at maximum fan speed for 30 minutes when operation starts. While this function is working, the icon "%" and selected fan speed are displayed on the screen of PZ-62DR-EA. (See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)
		The indoor negative pressure setting or the indoor positive pressure setting is set.	Check the function selection switches (SW2-4 and SW2-5) on the circuit board or the function settings (No. 6 and 7) of PZ-62DR-EA. (See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)
14	The Night-purge operation cannot be stopped with PZ-62DR-EA.	Usual ON/OFF button operation cannot stop the Night-purge operation.	Press the ON/OFF button once to display the operation screen, and then press the ON/OFF button again.
15	Even though the Night-purge is set, Lossnay does not perform the Night-purge operation.	Conditions of the Night-purge are not satisfied.	When the Night-purge conditions such as the indoor/outdoor temperature are not satisfied, Lossnay does not perform the Night-purge operation. For details, see the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.
		The Night-purge schedule is not set.	Check the setting of PZ-62DR-EA or the system controller that supports Night-purge operation. For details, see the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.
16	The Night-purge operation stops in halfway through.	The operating condition became outside the Night-purge conditions.	When the operating condition becomes outside the Night-purge conditions, the Night-purge operation ends. For details, see the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.
		The Lossnay remote controller or the system controller was operated to start or stop the operation of the Lossnay unit.	When the start or stop operation is performed during the Night-purge operation, the Night-purge operation ends.
		A controller other than PZ-62DR-EA or a controller that is not supporting Night-purge is operated to change the ventilation mode.	When a controller other than those supporting Night-purge is operated to change the ventilation mode, the system performs the normal ventilating operation. (See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)
17	The Lossnay unit does not operate with the MELCloud application.	The connection cable for the Wi-Fi interface is too close to the power supply cable or the other communication cables.	Wire the connection cable for the Wi-Fi interface at least 2 in. (5 cm) away from the power supply cable or the other communication cables.
	(When the Wi-Fi interface is used)	The system configuration is not appropriate. If the above does not solve the problem	Refer to the notes for the system configuration, for example, on leaflets supplied with the Lossnay unit. See <fig. 6-1="" check="" interface="" of="" wi-fi=""> (page 25).</fig.>

No.	Problem	Factor	Corrective action
18	When the supply fan is stopped, the exhaust fan operates at the higher fan speed than the fan speed set with the remote controller.	The Lossnay unit is operating in the protective mode (intermittent operation). (Outdoor temperature is 23°F (-5°C) or lower.)	During the intermittent operation, the exhaust fan operates at fan speed 4.
19	Abnormal noise comes from the damper motor	Mis-assembling of the damper motor	Remove the GM assembly from the main unit, and then remove the damper motor from the damper motor casing to check the pulley position. If the position is incorrect, adjust it as shown in the picture below, and then reassemble the GM assembly. Damper motor Pulley
		Damper motor failure	If no error is found around the pulley and wire, replace the GM assembly.

<Fig. 6-1 Check of Wi-Fi interface>



(2) Failure mode 2: The remote controller does not work.

If the remote controller does not work, check the following items.

[1] PZ-62DR-EA

No.	Problem	Factor	Corrective action
1	Nothing is displayed on the remote	The power of the Lossnay unit is not ON.	Check the items described in (1) [1].
	controller. The ON/OFF lamp	Faulty connection of the remote controller transmission cable	Check the items described in (1) [2].
	does not blink.	In one group, three or more PZ-62DR-EA controllers are connected.	Only up to two PZ-62DR-EA controllers can be connected in one group.
		In one group, 16 or more Lossnay units are connected.	Only up to 15 Lossnay units can be connected in one group.
		The wiring length of the remote controller exceeds 219 yd. (200 m).	The wiring length of the remote controller shall be within 219 yd. (200 m).
		In one group, two or more Lossnay units are set as the main Lossnay (with address number 1 or the smallest number other than 0).	Only one Lossnay unit can be set as the main Lossnay in one group.
2	The remote controller continues to display "Please Wait". Error code "6831" is displayed.	The remote controller is starting up.	The remote controller displays "Please Wait" during start-up for maximum three minutes.
		Faulty connection of the remote controller transmission cable	Check the items described in (1) [2].
		The remote controller transmission cable is connected to the terminal block (TB5 [A] [B]) for the M-NET transmission cable.	Connect the remote controller transmission cable to the terminal block (TM4 [1] [2]).
		PZ-43SMF-E is used together.	PZ-62DR-EA and PZ-43SMF-E cannot be used together.
		The old model remote controller (TZ-61DR-E) is connected.	Use PZ-62DR-EA remote controller.
3	It takes time for the remote controller to be fed with power after turning the Lossnay unit ON.	The Lossnay unit is starting up.	The remote controller is not fed with power during start-up of the Lossnay unit for maximum one minute.

[2] PZ-43SMF-E

No.	Problem	Factor	Corrective action
1	The power indicator "©" is not displayed.	The power of the Lossnay unit is not ON.	Check the items described in (1) [1].
		Faulty connection of the remote controller transmission cable	Check the items described in (1) [2].
		In one group, three or more PZ-43SMF-E controllers are connected.	Only up to two PZ-43SMF-E controllers can be connected in one group.
		In one group, 16 or more Lossnay units are connected.	Only up to 15 Lossnay units can be connected in one group.
		The wiring length of the remote controller exceeds 219 yd. (200 m).	The wiring length of the remote controller shall be within 219 yd. (200 m).
		In one group, two or more Lossnay units are set as the main Lossnay	Only one Lossnay unit can be set as the main Lossnay in one group.
		(with address number 1 or the smallest number other than 0).	(See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)

No.	Problem	Factor	Corrective action
2	"H0" is displayed on the remote controller.	The remote controller is starting up.	The remote controller displays "H0" during start-up for a maximum of one minute.
3	It takes time for the remote controller to be fed with power after turning the Lossnay unit ON.	The Lossnay unit is starting up.	The remote controller is not fed with power during start-up of the Lossnay unit for a maximum of one minute.
4	The inspection number "6801" is	Faulty connection of the remote controller transmission cable	Check the items described in (1) [2].
	displayed on the remote controller.	The remote controller transmission cable is connected to the terminal block (TB5 [A] [B]) for the M-NET transmission cable.	Connect the remote controller transmission cable to the terminal block (TM4 [1] [2]).
		PZ-62DR-EA is used together.	PZ-43SMF-E and PZ-62DR-EA cannot be used together.
5	Operations with the remote controller are not possible.	The function selection switch (SW5-9) on the circuit board is set to ON.	When PZ-43SMF-E is used, set the function selection switch (SW5-9) to OFF.

(3) Failure mode 3: Operations on the remote controller are not possible.

• Initial Check Items

If the system cannot be operated with the remote controller, check the following items.

No.	Check item	Notes
1	Are the function selection switches (SW2, SW5) and model selection switch (SW6) on the Lossnay circuit board set correctly to suit the required application?	Depending on the settings of the function selection switches, Lossnay may automatically operate or stop, or specific operation may be unable to be performed with the remote controller.
2	When PZ-62DR-EA is used, are the function selections set correctly to suit the required application?	Depending on the settings of the function selections, Lossnay may automatically operate or stop, or specific operation may be unable to be performed with the remote controller.
3	When PZ-62DR-EA is used, are icons and characters displayed on the PZ-62DR-EA screen?	Based on the icon and characters, you can check statuses such as the timer operation, Night-purge, and protective operation. (See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)
4	Is the system controller of M-NET used?	The system controller can be used to start/stop Lossnay, change fan speed or ventilation mode, and prohibit the start/stop operation by PZ-62DR-EA.
5	Is the external input used?	If the interlock mode is set to "External input given priority" (function setting (No. 19) is set to "3") and if the external device is operating, the stop operation by PZ-62DR-EA is prohibited. (See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)
		If the Remote/Local switching (CN32) is set to remote, the start/ stop operation by the Lossnay remote controller is prohibited. (See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)
		Priority is given to the operation by the fan speed switching input and Bypass mode switching input. (CN17, CN26) (See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)
6	Is the Wi-Fi interface connected?	When the Lossnay unit is operated with the MELCloud application, the Lossnay unit operates according to the latter signal.

• Individual check items

If the system cannot be started/stopped using the remote controller, check the following items.

[1] PZ-62DR-EA

No.	Problem	Factor	Corrective action
1	Some Lossnay units in the group do not operate.	The power of the Lossnay unit is not ON.	Check the items described in (1) [1].
		Faulty connection of the remote controller transmission cable	Check the items described in (1) [2].
		The remote controller transmission cables are not correctly connected between the terminals (TM4 [1] [2]) of the Lossnay units in the group.	Connect the remote controller transmission cables correctly between the terminals (TM4 [1] [2]) of the Lossnay units in the group.
		The system is operating in the protective mode (intermittent operation).	For details, see the Lossnay Operating/ Installation Instructions or PZ-62DR-E Instruction Book.
2	The screen display of the remote controller	Faulty connection of the remote controller transmission cable	Check the items described in (1) [2].
	changes by itself. Even if you press the buttons, the screen returns	The group wiring and the group setting of the system controller do not match.	Check the group wiring or the group setting of the system controller.
	to the original screen right away.	When the system controller is used, the Lossnay unit, which is set as the main Lossnay, is not set to the address with the smallest number in the group, or the address is duplicated.	Lossnay unit with the smallest address number in the group will be set as the main Lossnay automatically. Do not assign the same address number to the other Lossnay units.
3	The ventilation mode cannot be changed with the remote controller.	The Lossnay unit is performing the Night-purge operation.	The ventilation mode cannot be changed during the Night-purge operation. (See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)
		The signal is input to the Bypass mode switching input (CN26 [1] [2]).	Check the Bypass mode switching input (CN26 [1] [2]). (See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)
4	Even though the function settings (No. 37 and/or 39) of PZ-62DR-EA are set to "1", the indoor temperature and/or supply air temperature are not displayed.	The Lossnay unit is performing the Bypass mode ventilation.	The indoor temperature and/or supply air temperature are not displayed during the Bypass mode. In addition, this function is available only when "Sensor value" is set to "Yes" (Display) by the remote controller PZ-62DR-EA.
5	Even though the function settings (No. 36, 37 and/ or 39) of PZ-62DR-EA are set to "1", the outdoor temperature, indoor temperature and/or supply air temperature are not displayed.	The setting of PZ-62DR-EA is not correct.	Select "Yes" at "Sensor value" menu of PZ-62DR-EA. For details, see the Installation Manual of PZ-62DR-E.

No.	Problem	Factor	Corrective action
6	Even though the function settings (No. 36, 37 and/ or 39) of PZ-62DR-EA are set to "1", "LO" or "HI" is displayed on the remote controller.	The indoor, outdoor, and/or supply air temperature are outside the display range.	 Outdoor temperature display range: 35.6°F (2°C) to 96.8°F (36°C) Indoor temperature display range: 48.2°F (9°C) to 98.6 °F (37°C) Calculated supply air temperature display range: 48.2°F (9°C) to 98.6 °F (37°C) If the temperature exceeds the display range, "HI" will be displayed, and if less than the display range, "LO" will be displayed.
7	CO ₂ concentration is not displayed on PZ-62DR-EA.	With the function setting No. 38, CO ₂ concentration indication setting is set to "0: N/A". The detected CO ₂ concentration is outside the display range.	Set the function setting No. 38 to "1: Available on the screen of PZ-62DR-EA". (See the PZ-62DR-E Installation manual and the Lossnay Installation Instructions.) Detectable CO ₂ concentration range: 300 to 2000 ppm If the concentration exceeds 2000 ppm,
		The CO ₂ sensor is in warm-up operation. (For 15 minutes after power is supplied to the CO ₂ sensor)	"2000" will be displayed, and if less than 400 ppm, "LO" will be displayed. PZ-62DR-EA does not display CO2 concentration while the CO2 sensor is in warm-up operation. (It displays " ppm" during warm-up operation.)

[2] Interlocking with air conditioners (Mr. Slim indoor unit or City Multi indoor unit) or external devices

No.	Problem	Factor	Corrective action
1	Lossnay interlock settings cannot	The power of the Lossnay unit is not ON.	Check the items described in (1) [1].
	be performed with the remote	Faulty connection of the remote controller transmission cable	Check the items described in (1) [2].
	controller.	Lossnay address setting is incorrect.	Check the Lossnay address.
2	perform interlock	The power of the Lossnay unit is not ON.	Check the items described in (1) [1].
	operation.	Faulty connection of the remote controller transmission cable or external input/output signal cables	Check the items described in (1) [2].
		The Lossnay unit is not set for interlock operation.	Set the interlock setting.
		The terminal block connected and the type of external signal do not match (charged or volt-free).	Check the type of external signal and the connections of the external control input terminal (TM2).
		The type of external signal and input setting do not match (level signal or pulse signal).	Check the type of external signal and the setting of the input (level or pulse). (See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)
		The Lossnay unit is set to the delay operation.	When PZ-62DR-EA is used, it displays the icon "%" that indicates the delay operation is in-progress. LED1 (green) on the control circuit board lights. The Lossnay unit starts operation in 30 minutes (or 15 minutes) after starting operation by the air conditioner or external signal. Check the function selection switch (SW2-3) on the circuit board or the function setting (No. 9) of PZ-62DR-EA. (See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)
		The interlock mode of the Lossnay unit is set to "ON Interlock" or "OFF Interlock".	Check the interlock mode setting. (See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)
		In a group with multiple Lossnay units, no Lossnay unit is set to the main Lossnay. In a group with multiple Lossnay units, external control signal is input to a Lossnay unit other than the main Lossnay.	When externally controlling multiple Lossnay units without using M-NET (and address setting), set one Lossnay unit as the main Lossnay to input external control signal. (Set its address to the smallest number in the group, or set it to 1 and then set the other units address to 0.)
		The Lossnay unit is operating in the protective mode (intermittent operation).	For details, see the Lossnay Operating/ Installation Instructions or PZ-62DR-E Instruction Book.

[3] System controller

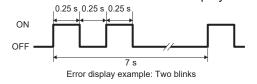
No.	Problem	Factor	Corrective action
1	The group of Lossnay cannot be set with the system controller.	The power of the Lossnay unit is not ON.	Check the items described in (1) [1].
		M-NET transmission cable is connected to the remote controller terminal block (TM4 [1] [2]).	Connect the M-NET transmission cable to the M-NET transmission cable terminal block (TB5 [A] [B]).
		Lossnay address setting is incorrect.	Check the address setting switches (SW11 and SW12) on the Lossnay circuit board.
		Power is not supplied to the M-NET transmission cable.	If the system is configured with only Lossnay units, connect the power supply unit. (See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)
		The wiring length of the M-NET transmission cable is longer than specified. (Longer than 219 yd. (200 m) from the power supply unit, or longer than 547 yd. (500 m) in total length)	Check the wiring length of the transmission cable. (See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)
2	Some Lossnay units in the group do not	The power of the Lossnay unit is not ON.	Check the items described in (1) [1].
	operate.	Faulty connection of the M-NET transmission cable	Check the items described in (1) [2].
		The remote controller transmission cables are not correctly connected between the terminals (TM4 [1] [2]) of the Lossnay units in the group.	Connect the remote controller transmission cables correctly between the terminals (TM4 [1] [2]) of the Lossnay units in the group.
		The Lossnay unit is operating in the protective mode (intermittent operation).	For details, see the Lossnay Operating/ Installation Instructions or PZ-62DR-E Instruction Book.
3	The screen display of the system con-	Faulty connection of the remote controller transmission cable	Check the items described in (1) [2].
	troller changes by itself. Even if you press the buttons, the screen returns	When PZ-62DR-EA is used, the group wiring and the group setting of the system controller do not match.	Check the group wiring or the group setting of the system controller.
	to the original screen right away.	The address of the Lossnay unit, which is set as the main Lossnay, is not set to the smallest number in the group.	Lossnay unit with the smallest address number in the group will be set as the main Lossnay automatically. Do not assign the same address number to the other Lossnay units.

[4] When the Wi-Fi interface is connected to the Lossnay unit

No.	Problem	Factor	Corrective action
1	The Lossnay unit does not operate with the MELCloud application.	The connection cable for the Wi-Fi interface is too close to the power supply cable or the other communication cables.	Wire the connection cable for the Wi-Fi interface at least 2 in. (5 cm) away from the power supply cable or the other communication cables.
	(When the Wi-Fi interface is used)	The system configuration is not appropriate.	Refer to the notes for the system configuration, for example, on leaflets supplied with the Lossnay unit.
		If the above does not solve the problem	See <fig. 6-1="" check="" interface="" of="" wi-fi=""> (page 25).</fig.>

(4) Failure mode 4: Error code and LED display

An error code displayed on the remote controller (PZ-62DR-EA, PZ-43SMF-E) or the M-NET controller, and blinking or illumination of LED1 (green) or LED2 (red) on the circuit board show the type of an error. The LED blink interval is 0.25 seconds for both on and off. The display duration is approximately 7 seconds.



Error display list

	LED1 (green)		Symptom	Cause	Corrective action
0900	_	_	Trial operation	The trial operation switch (SW2-1) on the circuit board is set to "ON".	Check the trial operation switch. (See the Lossnay Operating/ Installation Instructions or PZ-62DR-E Instruction Book.)
3126	8 blinks	_	External device error	When the terminals (TM3 [9] [10]) or Lossnay signal output terminal PZ-4GS-E are set for pre-heater output (the function setting No. 12 of PZ-62DR-EA is set to "6", and No. 13 to 16 are set to "5"), the following conditions were satisfied. • Outdoor air temperature detected by OA thermistor stays at 158°F (70°C) or higher for one minute. • Outdoor air temperature detected by OA thermistor exceeds 59°F (15°C) within 15 minutes after the pre-heater output starts. • Outdoor air temperature is still -4°F (-20°C) or lower 5 minutes after the pre-heater output starts. Causes of the above phenomenons are described below.	See below.
				The pre-heater is connected to the wrong terminal.	Connect the pre-heater to the terminals (TM3 [9] [10]). (See the Lossnay Operating/ Installation Instructions or PZ-62DR-E Instruction Book.)
				Faulty connection of the pre-heater	Check the pre-heater connections.
				The output capacity of the pre-heater is too large with respect to the air volume of the Lossnay unit.	Adjust the output capacity of the pre-heater. When the pre-heater is used, run the Lossnay at a higher fan speed.
				The output capacity of the pre-heater is too small with respect to the air volume of the Lossnay unit.	Adjust the output capacity of the pre-heater. When the pre-heater is used, run the Lossnay at a lower fan speed.
				Pre-heater failure	Replace the pre-heater.
				Pre-heater relay failure	Replace the relay for the pre-heater.
				Circuit board failure	First, replace the control circuit board. If the problem persists, then replace the power circuit board.

	LED1 (green)		Symptom	Cause	Corrective action
4101	11 blinks	_	Overcurrent error of the remote con- troller terminal	Shorting between the remote control- ler terminals	Check the remote controller wiring.
				The group contains two or more Lossnay units with the same address.	Set unique addresses to these units.
				M-NET transmission cable is connected to the remote controller terminal block (TM4 [1] [2]).	Connect the M-NET transmission cable to the M-NET transmission cable terminal block (TB5 [A] [B]).
				Three or more remote controllers are connected.	Up to two remote controllers can be connected.
				Circuit board failure	Replace the control circuit board.
				Remote controller failure	Replace the remote controller.
4116	1 blink or	_	Abnormal rotation of the supply fan motor	Faulty connection of the supply fan motor connector (CN10) on the power circuit board	Check the connector (CN10) connection.
	6		(Centrifugal fan	<for 600="" lgh-f300="" to="" types=""></for>	
	blinks (*1)		does not work, insufficient motor speed, excessive	Faulty connection of the connectors (CN19–CN119) between the control circuit board and power circuit board	Check the connector connections (CN19–CN119).
			motor speed,	<for 1200="" and="" lgh-f940="" types=""></for>	
			or rotation detected when operation is stopped)	Faulty connection of the connectors (CN19–CN119) between the control circuit board and power circuit board (lower unit)	Check the connector connections (CN19–CN119) and (CN21–CN121).
				(CN21–CN121) between the control circuit board and power circuit board (upper unit)	
				The model selection switch (SW6) is not set correctly.	Make the SW6 setting appropriate for the model. (See Chapter 8. (8) Setting status record (page 52).)
				The temperature around the product is high.	Use the product at a temperature of 104°F (40°C) or lower.
				The motor and centrifugal fan are not fixed securely.	Check the installation state of the motor and centrifugal fan, and fix them securely.
				Deformed centrifugal fan	Replace the centrifugal fan.
				Foreign objects around the centrifugal fan	Check the air course and around the centrifugal fan, and remove any foreign matter.
				Fan motor failure	Replace the fan motor. (See page 19.)
				Circuit board failure	Replace the power circuit board.

^{(*1) 1} blink for LGH-F300 to 600 types 1 or 6 blinks for LGH-F940 and 1200 types

	LED1 (green)	LED2 (red)	Symptom	Cause	Corrective action
4116	2 blinks or	_	Abnormal rotation of the exhaust fan	Faulty connection of the exhaust fan motor connector (CN9) on the power circuit board	Check the connector (CN9) connection.
	7 blinks (*2)		motor (Centrifugal fan does not work, insufficient motor speed, excessive motor speed, or rotation detected when operation is stopped)	<for 600="" lgh-f300="" to="" types=""> Faulty connection of the connectors (CN19–CN119) between the control circuit board and power circuit board</for>	Check the connector connections (CN19–CN119).
				<for 1200="" and="" lgh-f940="" types=""> Faulty connection of the connectors (CN19–CN119) between the control circuit board and power circuit board (lower unit) (CN21–CN121) between the control circuit board and power circuit board (upper unit)</for>	Check the connector connections (CN19–CN119) and (CN21–CN121).
				The model selection switch (SW6) is not set correctly.	Make the SW6 setting appropriate for the model. (See Chapter 8. (8) Setting status record (page 52).)
				The temperature around the product is high. The motor and centrifugal fan are not fixed securely.	Use the product at a temperature of 104°F (40°C) or lower. Check the installation state of the motor and centrifugal fan, and fix them securely.
				Deformed centrifugal fan	Replace the centrifugal fan.
				Foreign objects around the centrifugal fan	Check the air course and around the centrifugal fan, and remove any foreign matter.
				Fan motor failure	Replace the fan motor. (See page 19.)
				Circuit board failure	Replace the power circuit board.
				When operation is stopped, the exhaust fan rotates due to outside wind.	Prevent the outside wind from intruding.
5101	4 blinks	_	Outdoor air (OA) thermis- tor related	Faulty connection of the thermistor connector (CN7) on the control circuit board	Check the connector (CN7) connection.
			error	Thermistor failure	Disconnect the connector (CN7), and check the resistance of the thermistor. If the equivalent thermistor resistance differs greatly from the ambient temperatures, replace the thermistor. (See (5) Temperatures and thermistor resistance table (page 39).)

(*2) 2 blinks for LGH-F300 to 600 types 2 or 7 blinks for LGH-F940 and 1200 types

1	LED1 (green)		Symptom	Cause	Corrective action
5102	5 blinks	_	Return air (RA) thermis- tor related	Faulty connection of the thermistor connector (CN5) on the control circuit board	Check the connector (CN5) connection.
			error	Thermistor failure	Disconnect the connector (CN5), and check the resistance of the thermistor. If the equivalent thermistor resistance differs greatly from the ambient temperatures, replace the thermistor. (See (5) Temperatures and thermistor resistance table (page 39).)
5501	12 blinks	_	CO ₂ sensor error (Optional components: PZ-70CSW-E,	The connectors for the CO ₂ sensor are disconnected.	Check the connector connections (CN34 (only for PZ-70CSW-E), CN23, CN26, and CN35) on the control circuit board.
			PZ-70CSB-E)	CO ₂ sensor failure	Check the CO ₂ sensor wiring according to the PZ-70CSW-E/PZ-70CSB-E Installation and Instruction Manual. If the problem persists even after correcting the wiring, replace the CO ₂ sensor.
				Even though the CO ₂ sensor is not connected, CO ₂ sensor setting (the function selection switches (SW5-6 to SW5-8) on the circuit board or the function setting (No. 66) of PZ-62DR-EA) is set as shown below. • "PZ-70CSW-E connected" (SW5-6: ON, SW5-7 and SW5-8: OFF, or No.66: 5) • "PZ-70CSB-E connected" (SW5-6 and SW5-7: ON, SW5-8: OFF, or No.66: 7)	
6201	_	_	PZ-62DR-EA circuit board failure	Remote controller failure	Replace the PZ-62DR-EA remote controller.
6202	_	_	PZ-62DR-EA circuit board failure	Clock function of the remote controller is not working properly.	Replace the PZ-62DR-EA remote controller.
6600	_	6 blinks	Multiple address error	The system contains two or more units (*3) with the same address in the same M-NET transmission cable line.	Find the units (*3) with the same address, and set unique addresses to these units.

^(*3) This refers to devices assigned an address number in MELANS such as the Lossnay unit, City Multi indoor unit, City Multi outdoor unit, or system controller.

	LED1 (green)	LED2 (red)	Symptom	Cause	Corrective action
6602	<u>—</u>	2 blinks	Transmission error	Faulty connection of the M-NET transmission cable	Check the items described in (1) [2].
			(transmis- sion proces- sor hardware error)	 Wiring was performed with power still supplied to the M-NET trans- mission cable. Accidental communication error 	Restart the system after completing wiring. If the error re-occurs, check for noise on the transmission cable. If the above does not correct the problem, replace the Lossnay control circuit board.
				Power is supplied to the same transmission cable from two or more power supply units. The power supply unit is connected to the TB3 terminal of the transmission booster.	Check the wiring of the power supply unit and the transmission booster.
				PZ-62DR-EA is connected to the terminals (TB5 [A] [B]).	Connect PZ-62DR-EA to the terminals (TM4 [1] [2]). (See the Lossnay Operating/ Installation Instructions or PZ-62DR-E Instruction Book.)
				Malfunction of the unit (*3) where an error occurs	Check the unit (*3) where the error occurs.
6603	_	5 blinks	Transmission error (transmission bus busy)	Faulty connection of the M-NET transmission cable • Wiring was performed with power still supplied to the M-NET transmission cable. • Accidental communication error	Check the items described in (1) [2]. Restart the system after completing wiring. If the error re-occurs, check for noise on the transmission cable. If the above does not correct the problem, replace the Lossnay control circuit board.
				Power is supplied to the same transmission cable from two or more power supply units. The power supply unit is connected to the TB3 terminal of the transmission booster.	Check the wiring of the power supply unit and the transmission booster.
				PZ-62DR-EA is connected to the terminals (TB5 [A] [B]).	Connect PZ-62DR-EA to the terminals (TM4 [1] [2]). (See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)
				Malfunction of the unit (*3) where an error occurs	Check the unit (*3) where the error occurs.

^(*3) This refers to devices assigned an address number in MELANS such as the Lossnay unit, City Multi indoor unit, City Multi outdoor unit, or system controller.

1	LED1 (green)	LED2 (red)	Symptom	Cause	Corrective action
6606	6606 —		Transmission/ reception error	Faulty connection of the M-NET transmission cable	Check the items described in (1) [2].
			(communication error with transmission processor)	 Wiring was performed with power still supplied to the M-NET trans- mission cable. Accidental communication error 	Restart the system after completing wiring. If the error re-occurs, check for noise on the transmission cable. If the above does not correct the problem, replace the Lossnay control circuit board.
				Malfunction of the unit (*3) where an error occurs	Check the unit (*3) where the error occurs.
6607	_	8 blinks	Transmission/ reception error	The power of the Lossnay unit is not ON.	Check the power of the Lossnay unit.
			(no ACK error)	The Lossnay address was changed.	Check the Lossnay address.
				PZ-62DR-EA is connected to the terminals (TB5 [A] [B]).	Connect PZ-62DR-EA to the terminals (TM4 [1] [2]). (See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)
6608	_	8 blinks	Transmission/ reception error (no response	Multiple M-NET transmission cables are wired using multicore cables.	Using the applicable cable, wire the transmission cable away from one another.
			error)	The M-NET transmission cable is not securely connected.	Check the transmission cable connections.
				The wiring length of the M-NET transmission cable is longer than specified. • Max. extension: 219 yd. (200 m) • Total extension: 547 yd. (500 m)	Check the wiring length of the transmission cable.
				PZ-62DR-EA is connected to the terminals (TB5 [A] [B]).	Connect PZ-62DR-EA to the terminals (TM4 [1] [2]). (See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)
6801	9 blinks	_	PZ-43SMF-E communica- tion error	Multiple PZ-43SMF-E transmission cables are wired using multicore cables.	Using the applicable cable, wire the transmission cable away from one another.
			3311 311 311	The power supply cable is too close to the PZ-43SMF-E transmission cable.	Wire the power supply cable at least 2 in. (5 cm) away from the transmission cable.
				Faulty connection of the PZ-43SMF-E transmission cable	Check the transmission cable connections.
				The wiring length of the PZ-43SMF-E transmission cable is longer than specified (219 yd. (200 m) or more).	Check the wiring length of the transmission cable.
				PZ-43SMF-E is connected to the terminals (TB5 [A] [B]).	Connect PZ-43SMF-E to the terminals (TM4 [1] [2]). (See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)

^(*3) This refers to devices assigned an address number in MELANS such as the Lossnay unit, City Multi indoor unit, City Multi outdoor unit, or system controller.

Frror	LED1	LFD2			
	(green)		Symptom	Cause	Corrective action
6831	9 blinks	_	PZ-62DR-EA communica- tion error (no reception)	Faulty connection of the PZ-62DR-EA transmission cable	Check the items described in (1) [2]. If the error re-occurs, check for noise on the transmission cable. If the above does not correct the problem, replace the Lossnay control circuit board or PZ-62DR-EA remote controller.
				PZ-62DR-EA is connected to the terminals (TB5 [A] [B]).	Connect PZ-62DR-EA to the terminals (TM4 [1] [2]). (See the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.)
6832	9 blinks	_	PZ-62DR-EA communica- tion error (syn- chronization recovery error)	Faulty connection of the PZ-62DR-EA transmission cable	Check the items described in (1) [2]. If the error re-occurs, check for noise on the transmission cable. If the above does not correct the problem, replace the Lossnay control circuit board or PZ-62DR-EA remote controller.
6833	9 blinks	_	PZ-62DR-EA communica- tion error (hardware error)	Faulty connection of the PZ-62DR-EA transmission cable	Check the items described in (1) [2]. If the error re-occurs, check for noise on the transmission cable. If the above does not correct the problem, replace the Lossnay control circuit board or PZ-62DR-EA remote controller.
6834	9 blinks	_	PZ-62DR-EA communica- tion error (start bit detection error)	Faulty connection of the PZ-62DR-EA transmission cable	Check the items described in (1) [2]. If the error re-occurs, check for noise on the transmission cable. If the above does not correct the problem, replace the Lossnay control circuit board or PZ-62DR-EA remote controller.
7113	10 blinks	_	Function set- ting error	The group contains two or more Loss- nay units with the same address. The model selection switch (SW6) is not set correctly.	Set unique addresses to these units. Make the SW6 setting appropriate for the model. (See Chapter 8. (8) Setting status record (page 52).)
				Improper power circuit board is used. The applicable circuit boards must be used as shown below. LGH-F300 and 380 types: LG-X08DC-P4 LGH-F470 and 600 types: LG-X08DC-P6 LGH-F940 and 1200 types: LG-X08DC-P6 (Lower unit) LG-X08DC-P5 (Upper unit)	Check that the applicable power circuit board is connected.

(5) Temperatures and thermistor resistance table

Tempe	rature	Resistance	Tempe	rature	Resistance	Tempe	rature	Resistance	Tempe	erature	Resistance	Tempe	rature	Resistance
(°F)	(°C)	value (kΩ)	(°F)	(°C)	value ($k\Omega$)	(°F)	(°C)	value (kΩ)	(°F)	(°C)	value (kΩ)	(°F)	(°C)	value (kΩ)
-22	-30	64.2 to ∞	19.4	-7	19.4	46.4	8	9.9	73.4	23	5.4	100.4	38	3.1
-	÷	:	21.2	-6	18.5	48.2	9	9.5	75.2	24	5.2	102.2	39	3.0
-4.0	-20	37.2	23.0	-5	17.7	50.0	10	9.1	77.0	25	5.0	104.0	40	2.9
-2.2	-19	35.3	24.8	-4	16.9	51.8	11	8.7	78.8	26	4.8	105.8	41	2.8
-0.4	-18	33.5	26.6	-3	16.1	53.6	12	8.4	80.6	27	4.6	107.6	42	2.7
1.4	-17	31.8	28.4	-2	15.4	55.4	13	8.0	82.4	28	4.5	109.4	43	2.6
3.2	-16	30.2	30.2	-1	14.7	57.2	14	7.7	84.2	29	4.3	111.2	44	2.5
5.0	-15	28.7	32.0	0	14.0	59.0	15	7.4	86.0	30	4.2	113.0	45	2.5
6.8	-14	27.3	33.8	1	13.4	60.8	16	7.1	87.8	31	4.0	114.8	46	2.4
8.6	-13	26.0	35.6	2	12.8	62.6	17	6.8	89.6	32	3.9	116.6	47	2.3
10.4	-12	24.7	37.4	3	12.3	64.4	18	6.6	91.4	33	3.7	118.4	48	2.2
12.2	-11	23.6	39.2	4	11.8	66.2	19	6.3	93.2	34	3.6	120.2	49	2.2
14.0	-10	22.4	41.0	5	11.3	68.0	20	6.1	95.0	35	3.5	122.0	50	2.1
15.8	-9	21.4	42.8	6	10.8	69.8	21	5.8	96.8	36	3.3	:	:	:
17.6	-8	20.4	44.6	7	10.3	71.6	22	5.6	98.6	37	3.2	194	90	0 to 0.7

^{*} Measure the return air (RA) thermistor resistance across pin No. 1 and 2 of CN5, and the outdoor air (OA) thermistor resistance across pin No. 1 and 3 of CN7.

(6) Motor resistance table

⚠ Cautions:

- Before disconnecting the motor connectors, make sure that the power is turned OFF and the circuit board is discharged adequately.
- Even after the power supply is cut off, the capacitor is charged. Therefore, high voltage is applied to the motor for a while. Make sure that the LEDs on the circuit boards are turned OFF before starting work.
- · Never touch the circuit board while the power is ON. It causes electric shock and failure of the unit.

Replace the fan motor in the following cases.

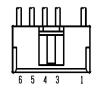
- [1] If it is hard to rotate the motor shaft by hand
- [2] If the resistance between the motor leads is significantly different from the values specified in the table below *Before measuring the resistance, the motor connectors must be disconnected from the circuit board.

<LGH-F300RVX2-F LGH-F380RVX2-F>

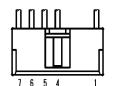
	ECHT COCKYAL E, ECHT COCKYAL E							
Pin No.	Supply fan motor	3-1	3-4	3-5	3-6			
FIII NO.	Exhaust fan motor	4-1	4-5	4-6	4-7			
Norr	nal resistance	About 815 kΩ	About 40 kΩ	About 105 kΩ	∞ kΩ			

<LGH-F470RVX2-E, LGH-F600RVX2-E, LGH-F940RVX2-E, LGH-F1200RVX2-E>

Pin No.	Supply fan motor	3-1	3-4	3-5	3-6
	Exhaust fan motor	4-1	4-5	4-6	4-7
Norr	nal resistance	∞ kΩ	About 50 kΩ	About 150 kΩ	∞ kΩ



Supply fan motor connector



Exhaust fan motor connector

8. Overhauling procedures

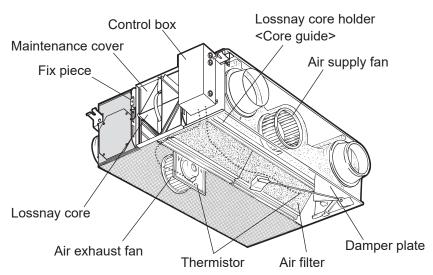
Work precautions

- When touching the electric components such as circuit boards and fan motors, do not touch the components for more than 5 minutes after power-off, and then start working. If LED4 on the circuit board is lit, do not touch the electric components.
- Before replacing parts or components, follow the instructions described in the troubleshooting.
- · When servicing, always keep proper footing.
- When servicing, be sure to turn off the power supply isolator. Pay sufficient attention to avoid electric shock or injury.
- Be sure to connect the power supply wires correctly.
- · Avoid application of abnormal voltage.
- Pay attention not to drop the parts or components.
- When the tightening torque for assembling is specified, be sure to tighten to the specified tightening torque.
- After connecting the lead wires, make sure that they are securely connected.
- · After completing repairs, check that the product operates properly.
- * Always wear a pair of gloves when servicing.

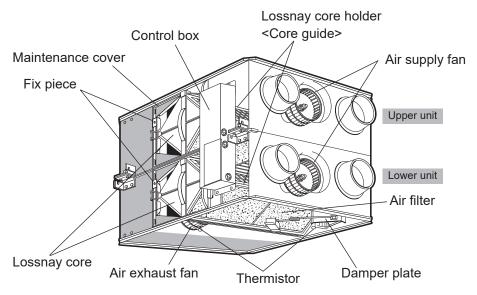
<External and internal view of the product>

Names within angle brackets < > are part names listed in the parts catalog.

Models LGH-F300RVX2-E, LGH-F380RVX2-E, LGH-F470RVX2-E, LGH-F600RVX2-E



Model LGH-F940RVX2-E, LGH-F1200RVX2-E



(1) Turning power off

- [1] Shut down the unit.
- [2] Turn off the power supply isolator.

Precaution

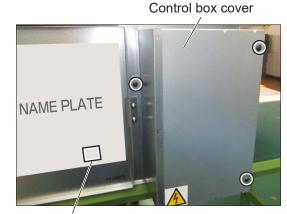
When servicing, power supply to M-NET must be turned off. Live-line working may cause a circuit board failure.

(2) Fan parts

[1] Remove the black screws (three special screws 4×8, indicated by O) to remove the control box cover.

For LGH-F940RVX2-E and LGH-F1200RVX2-E

See (5) [1] (on page 48) for removing the control box cover.

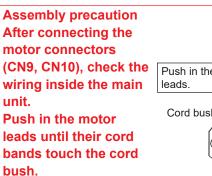


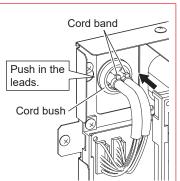
QR code

[2] Check that LED4 (red) on the circuit board is OFF, and then disconnect the motor connectors (CN9, CN10, indicated by O) from the power circuit board.

Precaution

When disconnecting the motor connectors, make sure that the power supply is turned off and all LEDs are unlit. Even when the fan motor is stopped, disconnecting the live-line connectors will cause a motor malfunction.





[3] Remove the black screw (one special screw 4×8, indicated by O) for the fix piece.



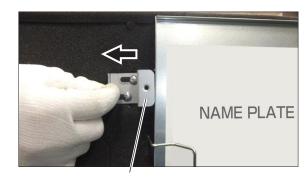
Power circuit board

Control circuit board



Fix piece

[4] Slide the fix piece to the left side.



Fix piece

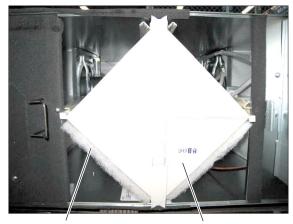
[5] Pull out the hinge, and open the maintenance cover.



Hinge

Maintenance cover

[6] Draw the Lossnay cores (with filters) from the main unit.



Filter

Lossnay core

[7] Remove the screws (one special screw M4, indicated by O), and remove the core guides from the unit.



Core guide L

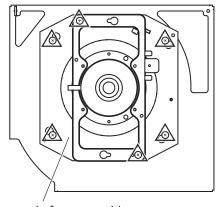
[8] Remove the separator.



Separator

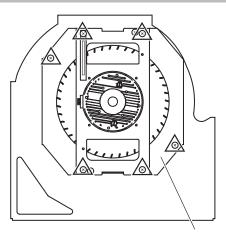
[9] Remove the screws (Six PTT screws 5×10 , indicated by Δ), and draw the fan assembly out from the main unit.

For LGH-F300RVX2-E



Air supply fan assembly

For LGH-F380RVX2-E to LGH-F1200RVX2-E



Air supply fan assembly

*The figure shows LGH-F470RVX2-E.

Assembly precaution

When attaching the centrifugal fan, tighten the special nut to the specified tightening torque.

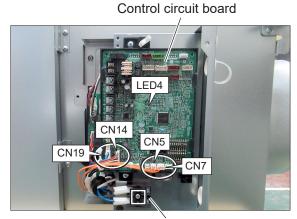
Tightening torque for the special nut

LGH-F300RVX2-E	Special nut (M8)	3.43 ± 0.4 N.m
LGH-F380RVX2-E	Special nut (M10)	7.30 ± 0.5 N.m
LGH-F470RVX2-E to LGH-F1200RVX2-E	Special nut (M12)	30.87 ± 2.45 N.m

^{*} Remove the Air exhaust fan assembly in the same manner as the steps [7] to [9].

(3) Terminal block parts

- [1] Remove the control box cover. \rightarrow See (2) [1].
- [2] Check that LED4 (red) on the control circuit board is OFF, and then disconnect the connectors (indicated by O) from the control circuit board.
- [3] Remove the screw (one PPT screw 4×20, indicated by □).

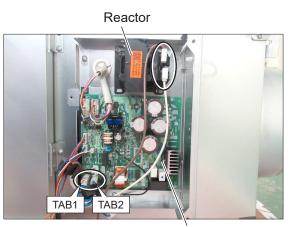


Terminal block

[4] Remove the screws (three PT screws 4×8, indicated by O), and remove the sub control base.



[5] Disconnect the connectors (indicated by O) from the power circuit board and the reactor, and remove the terminal brock with the lead wires.



Power circuit board

(4) Control parts (For LGH-F300RVX2-E to LGH-F600RVX2-E)

Precaution

Before replacing the circuit boards, see (6) Procedures for replacing the circuit boards (page 49).

- [1] Remove the control box cover. \rightarrow See (2) [1].
- [2] Check that LED4 (red) on the control circuit board is OFF, and then disconnect the connectors (indicated by O) from the control circuit board.

Control circuit board

LED4

CN14

CN5

CN7

[3] Remove the screws (two PT screws 4×8, indicated by O), and remove the control circuit board.

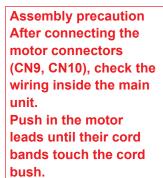


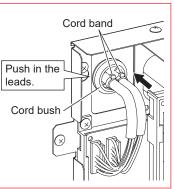
Control circuit board

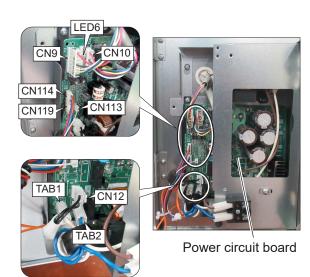
[4] Disconnect the connectors (indicated by O) from the power circuit board.

Precaution

When disconnecting the motor connectors, make sure that the power supply is turned off and all LEDs are unlit. Even when the fan motor is stopped, disconnecting the live-line connectors will cause a motor malfunction.





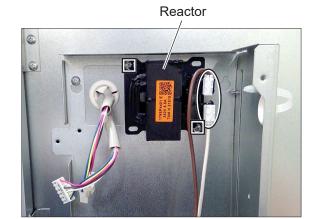


[5] Remove the screws (two PT screws 4x8, indicated by O), and slide the power circuit board to remove it.



Power circuit board

- [6] Remove the sub control base. \rightarrow See (3) [4].
- [7] Disconnect the connectors (indicated by O) from the reactor.
- [8] Remove the screws (two PT screws 4×8, indicated by □), and remove the reactor.



(5) Control parts (For LGH-F940RVX2-E and LGH-F1200RVX2-E)

Precaution

Before replacing the circuit boards, see (6) Procedures for replacing the circuit boards (page 49).

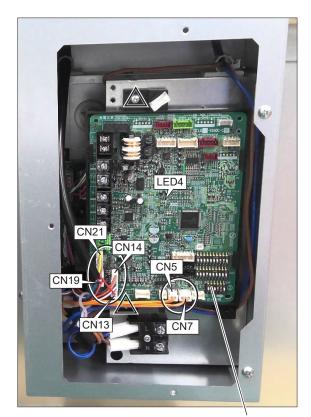
When removing only the control circuit board

[1] Remove the black screws (three special screws 4×8, indicated by O) to remove the control cover.



Control cover

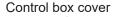
- [2] Check that LED4 (red) on the circuit board is OFF, and then disconnect the connectors (indicated by O) from the control circuit board.
- [3] Remove the screws (two PT screws 4×8 , indicated by Δ), and remove the control circuit board.



Control circuit board

• When removing the power circuit boards or reactors

[1] Remove the screws (eight PT screws 4×8, indicated by O) to remove the control box cover.







[2] Remove the circuit boards and reactors.

[Upper unit]

a. Disconnect the connectors (indicated by O).

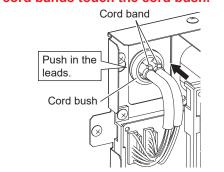
Precaution

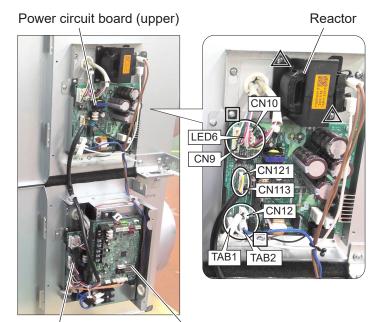
When disconnecting the motor connectors, make sure that the power supply is turned off and all LEDs are unlit. Even when the fan motor is stopped, disconnecting the live-line connectors will cause a motor malfunction.

Assembly precaution

After connecting the motor connectors (CN9, CN10), check the wiring inside the main unit.

Push in the motor leads until their cord bands touch the cord bush.





Power circuit board Control circuit board

- b. Remove the screws (two PT screws 4×8 , indicated by \square), and remove the power circuit board (upper).
- c. Remove the screws (two PT screws 4×8, indicated by \triangle), and remove the reactor.

[Lower unit]

- a. Remove the control circuit board. \rightarrow See (5) [2] and [3] (on page 47).
- b. Remove the power circuit board. \rightarrow See (4) [4] and [5] (on pages 45 and 46).
- c. Remove the reactor. \rightarrow See (4) [6] to [8] (on page 46).

* When reassembling

- Reassemble the unit in the reverse order of disassembly.
- After reassembly, always make a test run to be sure that the unit operates properly.

(6) Procedures for replacing the circuit boards

Notes

- Before removing the circuit boards for replacement, check the following Steps 1 and 2.
- When the Lossnay remote controller PZ-62DR-EA is connected, be sure to replace the circuit boards as described in the Steps.

Check which system configuration is applicable, and then replace the circuit boards. (A) Lossnay	Step	Details	Check item					
The following describes settings required when replacing the circuit boards per the system configuration. Check which system configuration is applicable, and then replace the circuit boards. (A) Constrainty Setting of the function selection switches on the circuit boards. (B) Setting of the function selection switches on the circuit boards. (B) Address setting (when M-NET is used) PR. CODE, EA. Regarding the settings on PZ-62DR-EA. Regarding the settings on PZ-62DR-EA. Regarding the settings on PZ-62DR-EA, prepare the data recorded at the time of installation (setting status record, etc.). In the case there is no data recorded at the time of installation, and if the Lossnay unit can be operated with PZ-62DR-EA, use the form in '(8) Setting status record (page 52)' to record the settings on PZ-62DR-EA. To check the settings on PZ-62DR-EA, see the Lossnay Operating/Installation Instructions or PZ-62DR-EA, see the Lossnay Operating/Installation Instructions or PZ-62DR-EA, see the Lossnay Operating/Installation Instructions or PZ-62DR-EA, see the Lossnay Unit for which you wish to check the settings. • The address can be checked by the address setting switches (SW12 and SW11) on the Lossnay Unit for which you wish to check the settings. • The address can be checked by the address setting switches (SW12 and SW11) on the Lossnay unit for which you wish to check the settings. • The address can be checked by the address setting switches (SW12 and SW11) on the Lossnay unit for which you wish to check the settings. • The address can be checked by the address setting switches and function selection switches on the circuit board. Remove the control box cover, and check the setting status of each switch on the circuit board. If the function setting statuses were recorded at the time of installation, this step can be skipped. [1] Address setting (SW12 and SW11) [2] Function selection switches (SW2, SW5) and model selection switch (SW6) setting	1	Check the system configuration.						
system configuration. Check which system configuration is applicable, and then replace the circuit boards. (A) Lossnay Setting of the function selection switches on the circuit boards. (A) Setting of the F2-62DR-EA functions (B) Address setting (when M-NET is used) PZ-62DR-EA (B) MANET transmission cable Interfock Address setting of the function selection switches on the circuit board. (B) Setting of the function selection switches on the circuit board. (B) Address setting (C) Setting of the function selection switches on the circuit board. (B) Address setting (C) Setting of the function selection switches on the circuit board. (B) Address setting (C) Setting of the function selection switches on the circuit board. (C) Address setting (C)		Check if PZ-62DR-EA is connected to the circuit board to be replaced.						
Setting of the PZ-62DR-EA functions on the circuit boad of the pz-62DR-EA functions on the circuit boad of the pz-62DR-EA functions on the circuit boad of the pz-62DR-EA functions setting when M-NET is used) Remote controller cable		system configuration.	System Configuration					
Remote controller cable (B) M-NET transmission cable (City Multi indoor unit (City Multi ind		② Setting of the PZ-62DR-EA functions	on the circuit board					
2 Check the settings on PZ-62DR-EA, prepare the data recorded at the time of installation (setting status record (page 52)" to record the settings on PZ-62DR-EA, use the form in "(8) Setting status record (page 52)" to record the settings on PZ-62DR-EA, see the Lossnay Operating/Installation Instructions or PZ-62DR-EA, see the Lossnay Operating/Installation Instruction setting screen of PZ-62DR-EA, display the M-NET address of the Lossnay unit for which you wish to check the settings. - The address can be checked by the address setting switches (SW12 and SW11) on the Lossnay circuit board. 3 Setting status record of the address setting switches and function selection switches on the circuit board. Remove the control box cover, and check the setting status of each switch on the circuit board. If the function setting statuses were recorded at the time of installation, this step can be skipped. [1] Address setting (SW12 and SW11) [2] Function selection switches (SW2, SW5) and model selection switch (SW6) setting		Remote controller cable						
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Regarding the settings on PZ-62DR-EA, prepare the data recorded at the time of installation (setting status record, etc.). In the case there is no data recorded at the time of installation, and if the Lossnay unit can be operated with PZ-62DR-EA, use the form in "(8) Setting status record (page 52)" to record the settings on PZ-62DR-EA. To check the settings on PZ-62DR-EA, see the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book. • On the function setting screen of PZ-62DR-EA, display the M-NET address of the Lossnay unit for which you wish to check the settings. • The address can be checked by the address setting switches (SW12 and SW11) on the Lossnay circuit board. 3 Setting status record of the address setting switches and function selection switches on the circuit busing the form in "(8) Setting status record (page 52)", record setting statuses necessary for replacing the circuit board. Remove the control box cover, and check the setting status of each switch on the circuit board. If the function setting statuses were recorded at the time of installation, this step can be skipped. [1] Address setting (SW12 and SW11) [2] Function selection switches (SW2, SW5) and model selection switch (SW6) setting		City Multi indoor unit Lossnay						
In the case there is no data recorded at the time of installation, and if the Lossnay unit can be operated with PZ-62DR-EA, use the form in "(8) Setting status record (page 52)" to record the settings on PZ-62DR-EA. To check the settings on PZ-62DR-EA, see the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book. On the function setting screen of PZ-62DR-EA, display the M-NET address of the Lossnay unit for which you wish to check the settings. The address can be checked by the address setting switches (SW12 and SW11) on the Lossnay circuit board. Setting status record of the address setting switches and function selection switches on the circuit b Using the form in "(8) Setting status record (page 52)", record setting statuses necessary for replacing the circuit board. Remove the control box cover, and check the setting status of each switch on the circuit board. If the function setting statuses were recorded at the time of installation, this step can be skipped. [1] Address setting (SW12 and SW11) [2] Function selection switches (SW2, SW5) and model selection switch (SW6) setting	2	Check the settings on PZ-62DR-EA.						
unit can be operated with PZ-62DR-EA, use the form in "(8) Setting status record (page 52)" to record the settings on PZ-62DR-EA. To check the settings on PZ-62DR-EA, see the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book. On the function setting screen of PZ-62DR-EA, display the M-NET address of the Lossnay unit for which you wish to check the settings. The address can be checked by the address setting switches (SW12 and SW11) on the Lossnay circuit board. Setting status record of the address setting switches and function selection switches on the circuit b Using the form in "(8) Setting status record (page 52)", record setting statuses necessary for replacing the circuit board. Remove the control box cover, and check the setting status of each switch on the circuit board. If the function setting statuses were recorded at the time of installation, this step can be skipped. [1] Address setting (SW12 and SW11) [2] Function selection switches (SW2, SW5) and model selection switch (SW6) setting			Setting status record					
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Using the form in "(8) Setting status record (page 52)", record setting statuses necessary for replacing the circuit board. Remove the control box cover, and check the setting status of each switch on the circuit board. If the function setting statuses were recorded at the time of installation, this step can be skipped. [1] Address setting (SW12 and SW11) [2] Function selection switches (SW2, SW5) and model selection switch (SW6) setting		Lossnay unit for which you wish to check the settings. • The address can be checked by the address setting switches (SW12 and SW11) on						
necessary for replacing the circuit board. Remove the control box cover, and check the setting status of each switch on the circuit board. If the function setting statuses were recorded at the time of installation, this step can be skipped. [1] Address setting (SW12 and SW11) [2] Function selection switches (SW2, SW5) and model selection switch (SW6) setting	3	Setting status record of the address setting switches and function selection switches	on the circuit board					
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setting		If the function setting statuses were recorded at the time of installation, this step can be skipped. [1] Address setting (SW12 and SW11)						
		, , ,						

setting switches, function selection switches, and model selection switch of the new circuit board. a. Address setting (SW12 and SW11) b. Function selection switches (SW2, SW5) and model selection switch (SW6) setting [2] Attach the power circuit board in the reverse order of the steps for removing. There are three types of the power circuit board. The type of the power circuit board varies depending on the model of the Lossnay unit. When replacing the circuit board, use the applicable circuit board according to the table below. Power circuit board Lossnay unit LG-X08DC-P4 LGH-F300RVX2-E, LGH-F300RVX2-E LG-X08DC-P6 LGH-F470RVX2-E, LGH-F1200RVX2-E LG-X08DC-P6 LGH-F4940RVX2-E, LGH-F1200RVX2-E LG-X08DC-P6 Gequipped with two types of the power circuit board Be sure to connect the connectors listed in the following table. Connector Symbol on the circuit board Check For power supply connection CN10 For supply fan motor connection CN10 For damper motor connection CN12 For control circuit board connection CN12 For control circuit board connection CN13, CN114, CN119, CN121 [3] Attach the control circuit board in the reverse order of the steps for removing, and then connect the connectors, remote controller transmission cable, M-NET transmission cable, and external signal cable, etc. Be sure to connect the connectors or terminals listed in the following table. (Connect PZ-62DR-EA or PZ-43SMF-E transmission cable terminal, M-NET transmission cable terminal, and connector/terminal for external signal cable only when they are used.) Connector and terminal Symbol on the circuit board CN7 For thermistor connection CN7 CN7 For thermistor connection CN7 For thermistor connection (outdoor temperature (OA)) For power circuit board connection CN5 For power circuit board connection CN7 For power circuit board connection CN13-3, CN14, CN19, CN21-3 MNET transmission cable terminal TM4 [1] [2] For external signal cable connection TM2, TM3, CN17, CN23, CN26, CN36, CN30, CN30, CN30, CN30	Check item
For removing the circuit boards, see (4) Control parts (For LGH-F300RVX2-E to LGH-F(page 45) or (5) Control parts (For LGH-F940RVX2-E and LGH-F1200RVX2-E) (page 4). Attaching the circuit boards [1] According to the function status record data prepared in Step 3, set the address setting switches, function selection switches, and model selection switch of the new circuit board. a. Address setting (SW12 and SW11) b. Function selection switches (SW2, SW5) and model selection switch (SW6) setting [2] Attach the power circuit board in the reverse order of the steps for removing. There are three types of the power circuit board. The type of the power circuit board varies depending on the model of the Lossnay unit. When replacing the circuit board, use the applicable circuit board according to the table below. Power circuit board LG-X08DC-P4 LGH-F300RVX2-E, LGH-F300RVX2-E LG-X08DC-P5 LGH-F470RVX2-E, LGH-F300RVX2-E LG-X08DC-P6 (Equipped with two types of the power circuit board) Be sure to connect the connectors listed in the following table. Connector Symbol on the circuit board For swhaust fan motor connection CN10 For damper motor connection CN10 For outrol circuit board onnection CN113, CN114, CN119, CN121-2 "*Connect TAB1 to the power supply via the reactor. Only LGH-F940RVX2-E and LGH-F1200RVX2-E are equipped with CN121. Lower Unit: CN113, CN114, CN119 Upper Unit: CN113, CN121 [3] Attach the control circuit board in the reverse order of the steps for removing, and C then connect the connectors, remote controller transmission cable, M-NET transmission cable, and external signal cable, etc. Be sure to connect the connectors or terminals listed in the following table. Connect P2-62DR-EA or P2-43SMF-E transmission cable terminal, M-NET transmission cable terminal, and connector/terminal for external signal cable only when they are used.) Connector temp	
[1] According to the function status record data prepared in Step 3, set the address setting switches, function selection switches, and model selection switch of the new circuit board. a. Address setting (SW12 and SW11) b. Function selection switches (SW2, SW5) and model selection switch (SW6) setting [2] Attach the power circuit board in the reverse order of the steps for removing. There are three types of the power circuit board. The type of the power circuit board varies depending on the model of the Lossnay unit. When replacing the circuit board, use the applicable circuit board according to the table below. Power circuit board LG-X08DC-P4 LG-X08DC-P5 LGH-F470RVX2-E, LGH-F600RVX2-E LG-X08DC-P6 LGH-F4470RVX2-E, LGH-F600RVX2-E LG-X08DC-P6 LGH-F4470RVX2-E, LGH-F1200RVX2-E LG-X08DC-P6 LGH-F440RVX2-E, LGH-F1200RVX2-E LG-X08DC-P6 (Equipped with two types of the power circuit board) Be sure to connect the connectors listed in the following table. Connector Symbol on the circuit board Check For exhaust fan motor connection CN10 For damper motor connection CN12 For control circuit board connection CN12 For control circuit board connection CN12 Tonnect TAB1 to the power supply via the reactor. Only LGH-F940RVX2-E and LGH-F1200RVX2-E are equipped with CN121. Lower Unit: CN113, CN114, CN119, CN121 [3] Attach the control circuit board in the reverse order of the steps for removing, and then connect the connectors, remote controller transmission cable, M-NET transmission cable, and external signal cable, etc. Be sure to connect the connectors or terminals listed in the following table. (Connect PZ-62DR-EA or PZ-43SMF-E transmission cable terminal, M-NET transmission cable terminal, and connector/terminal for external signal cable only when they are used.) Connector emperature (OA)) For thermistor connection (indoor temperature (OA)) For power circuit board connection CN5 (indoor temperature (GA)) For power circuit board connection CN5 (indoor temperature (GA)) For power circuit	,
setting switches, function selection switches, and model selection switch of the new circuit board. a. Address setting (SW12 and SW11) b. Function selection switches (SW2, SW5) and model selection switch (SW6) setting [2] Attach the power circuit board in the reverse order of the steps for removing. There are three types of the power circuit board. The type of the power circuit board varies depending on the model of the Lossnay unit. When replacing the circuit board, use the applicable circuit board according to the table below. Power circuit board LG-X08DC-P4 LG-X08DC-P6 LGH-F300RVX2-E, LGH-F300RVX2-E LG-X08DC-P6 LGH-F470RVX2-E, LGH-F500RVX2-E LG-X08DC-P6 LGH-F490RVX2-E, LGH-F1200RVX2-E LG-X08DC-P6 (Equipped with two types of the power circuit board) Be sure to connect the connectors listed in the following table. Connector Symbol on the circuit board Check For power supply connection CN10 For supply fan motor connection CN10 For supply fan motor connection CN12 For control circuit board connection CN12 Tonnect TAB1 to the power supply via the reactor. '2 Only LGH-F940RVX2-E and LGH-F120RVX2-E are equipped with CN121. Lower Unit: CN113, CN114, CN119 Differ Unit: CN113, CN121 [3] Attach the control circuit board in the reverse order of the steps for removing, and then connect the connectors, remote controller transmission cable, M-NET transmission cable, and external signal cable, etc. Be sure to connect the connectors or terminals listed in the following table. (Connect P2-62DR-EA or P2-43SMF-E transmission cable terminal, M-NET transmission cable terminal, and connector/terminal for external signal cable only when they are used.) Connector and terminal Symbol on the circuit board CN7 For thermistor connection (condoor temperature (OA)) For thermistor connection (condoor temperature (OA)) For power circuit board connection CN5 (indoor temperature (Na)) For power circuit board connection CN5 (indoor temperature (Na)) For operation temperature (Na) TM4 [1] [2] M-NE	Address
a. Address setting (SW12 and SW11) b. Function selection switches (SW2, SW5) and model selection switch (SW6) setting [2] Attach the power circuit board in the reverse order of the steps for removing. There are three types of the power circuit board. The type of the power circuit board varies depending on the model of the Lossnay unit. When replacing the circuit board, use the applicable circuit board according to the table below. Power circuit board Lossnay unit LG-X08DC-P4 LGH-F300RVX2-E, LGH-F380RVX2-E LG-X08DC-P6 LGH-F470RVX2-E, LGH-F1200RVX2-E LG-X08DC-P6 LGH-F940RVX2-E, LGH-F1200RVX2-E LG-X08DC-P6 LGH-F940RVX2-E, LGH-F1200RVX2-E LG-X08DC-P6 Gequipped with two types of the power circuit board of the connector supply fan motor connection For power supply connection For supply fan motor connection For amper motor connection For damper motor connection For control circuit board connection CN10 For control circuit board connection CN113, CN114, CN119, CN121*2 [3] Attach the control circuit board in the reverse order of the steps for removing, and then connect the connectors or terminals listed in the following table. Connect PZ-62DR-E and LGH-F1200RVX2-E are equipped with CN121. Lower Unit: CN113, CN114, CN119 Lower Unit: CN113, CN114, CN119, CN121*2 [3] Attach the control circuit board in the reverse order of the steps for removing, and then connect the connectors or terminals listed in the following table. Connect PZ-62DR-EA or PZ-43SMF-E transmission cable terminal, M-NET transmission cable terminal, and connector/terminal for external signal cable only when they are used.) Connector and terminal Symbol on the circuit board CN7 (connect PZ-62DR-EA or PZ-43SMF-E transmission cable terminal, M-NET transmission cable terminal M-NET transmission cable terminal TM4 [1] [2] TM4 [1] [2] TM7 [1] [2] TM8 [3] [8] For external signal cable connection TM9, TM3, CN17, CN23, CN26, CN36, CN30, CN3	etting
setting [2] Attach the power circuit board in the reverse order of the steps for removing. There are three types of the power circuit board. The type of the power circuit board varies depending on the model of the Lossnay unit. When replacing the circuit board, use the applicable circuit board according to the table below. Power circuit board Lossnay unit LG-X08DC-P4 LGH-F300RVX2-E, LGH-F380RVX2-E LG-X08DC-P6 LGH-F470RVX2-E, LGH-F1200RVX2-E LG-X08DC-P6 LGH-F940RVX2-E, LGH-F1200RVX2-E LG-X08DC-P6 (Equipped with two types of the power circuit board) Be sure to connect the connectors listed in the following table. Connector Symbol on the circuit board For supply connection CN10 For supply fan motor connection CN12 For control circuit board connection CN12 For control circuit board connection CN12 For control circuit board connection CN13, CN114, CN119, CN121 1 Connect TAB1 to the power supply via the reactor. 2 Only LGH-F940RVX2-E and LGH-F1200RVX2-E are equipped with CN121. Lower Unit: CN113, CN114, CN119 Upper Unit: CN113, CN121 [3] Attach the control circuit board in the reverse order of the steps for removing, and then connect the connectors, remote controller transmission cable, M-NET transmission cable, and external signal cable, etc. Be sure to connect the connectors or terminals listed in the following table. (Connect PZ-62DR-EA or PZ-43SMF-E transmission cable terminal, M-NET transmission cable terminal and connector/terminal for external signal cable only when they are used.) Connector and terminal Symbol on the circuit board Check For thermistor connection (nudoor temperature (OA)) For othermistor connection (nudoor temperature (RA)) For power circuit board connection CN5 (CN5 (CN5 (CN5 (CN7 (CN5 (CN5 (CN5 (CN5 (CN5 (CN6 (CN7), CN23, CN36, CN30, C	unction etting
There are three types of the power circuit board. The type of the power circuit board varies depending on the model of the Lossnay unit. When replacing the circuit board, use the applicable circuit board according to the table below. Power circuit board LG-X08DC-P4 LGH-F300RVX2-E, LGH-F380RVX2-E LG-X08DC-P6 LGH-F470RVX2-E, LGH-F1200RVX2-E LG-X08DC-P6 LGH-F940RVX2-E, LGH-F1200RVX2-E LG-X08DC-P6 (Equipped with two types of the power circuit board) Be sure to connect the connectors listed in the following table. Connector Symbol on the circuit board Check For power supply connection CN10 For damper motor connection CN12 For exhaust fan motor connection CN12 For control circuit board connection CN113, CN114, CN119, CN121*2 *1 Connect TAB1 to the power supply via the reactor. *2 Only LGH-F940RVX2-E and LGH-F1200RVX2-E are equipped with CN121. Lower Unit: CN113, CN114, CN119 Upper Unit: CN113, CN121 [3] Attach the control circuit board in the reverse order of the steps for removing, and then connect the connectors, remote controller transmission cable, M-NET transmission cable terminal, and connector/terminals listed in the following table. (Connect PZ-62DR-EA or PZ-43SMF-E transmission cable terminal, M-NET transmission cable terminal, and connector/terminal for external signal cable only when they are used.) Connector and terminal Symbol on the circuit board CN7 For thermistor connection (outdoor temperature (OA)) For thermistor connection (indoor temperature (RA)) For power circuit board connection CN13*, CN14, CN19, CN21*3 TM4 [1] [2] M-NET transmission cable terminal M-NET transmission cable ter	Model election
Power circuit board LG-X08DC-P4 LGH-F300RVX2-E, LGH-F380RVX2-E LG-X08DC-P6 LGH-F470RVX2-E, LGH-F600RVX2-E LG-X08DC-P5 LGH-F940RVX2-E, LGH-F1200RVX2-E LG-X08DC-P6 (Equipped with two types of the power circuit board) Be sure to connect the connectors listed in the following table. Connector Symbol on the circuit board Check For power supply connection CN9 For supply fan motor connection CN10 For damper motor connection CN10 For control circuit board connection CN112 For control circuit board connection CN112 For control circuit board connection CN113, CN114, CN119, CN121 ¹² 1 Connect TAB1 to the power supply via the reactor. 2 Only LGH-F940RVX2-E and LGH-F1200RVX2-E are equipped with CN121. Lower Unit: CN113, CN114, CN119 Upper Unit: CN113, CN121 [3] Attach the control circuit board in the reverse order of the steps for removing, and then connect the connectors, remote controller transmission cable, M-NET transmission cable, and external signal cable, etc. Be sure to connect the connectors or terminals listed in the following table. (Connect PZ-62DR-EA or PZ-435MF-E transmission cable terminal, M-NET transmission cable terminal, and connector/terminal for external signal cable only when they are used.) Connector and terminal Symbol on the circuit board Check For thermistor connection (outdoor temperature (OA)) For thermistor connection (indoor temperature (RA)) For power circuit board connection CN13 ¹³ , CN14, CN19, CN21 ¹³ M-NET transmission cable terminal M-NET transmission cable terminal TM4 [1] [2] For external signal cable connection CN32, CN34, CN35, CN50, CN105	Circuit board xing screw 1 pc.)
LG-X08DC-P4 LGH-F300RVX2-E, LGH-F380RVX2-E LG-X08DC-P6 LGH-F470RVX2-E, LGH-F600RVX2-E LG-X08DC-P5 LGH-F940RVX2-E, LGH-F1200RVX2-E LG-X08DC-P6 (Equipped with two types of the power circuit board) Be sure to connect the connectors listed in the following table. Connector Symbol on the circuit board Check For power supply connection CN9 For supply fan motor connection CN10 For damper motor connection CN10 For damper motor connection CN12 For control circuit board connection CN13, CN114, CN119, CN121 ⁻² 1 Connect TAB1 to the power supply via the reactor. 2 Only LGH-F940RVX2-E and LGH-F1200RVX2-E are equipped with CN121. Lower Unit: CN113, CN114, CN119 Upper Unit: CN113, CN121 [3] Attach the control circuit board in the reverse order of the steps for removing, and then connect the connectors, remote controller transmission cable, M-NET transmission cable, and external signal cable, etc. Be sure to connect the connectors or terminals listed in the following table. (Connect PZ-62DR-EA or PZ-43SMF-E transmission cable terminal, M-NET transmission cable terminal, and connector/terminal for external signal cable only when they are used.) Connector and terminal Symbol on the circuit board Check For thermistor connection (outdoor temperature (OA)) For thermistor connection (indoor temperature (RA)) For power circuit board connection CN5 For power circuit board connection CN13 ⁻³ , CN14, CN19, CN21 ⁻³ TM4 [1] [2] M-NET transmission cable terminal TB5 [A] [B] For external signal cable connection TM2, TM3, CN17, CN23, CN26, CN32, CN34, CN35, CN50, CN105	ng screw
LG-X08DC-P6 LGH-F470RVX2-E, LGH-F600RVX2-E LG-X08DC-P5 LGH-F940RVX2-E, LGH-F1200RVX2-E LG-X08DC-P6 (Equipped with two types of the power circuit board) Be sure to connect the connectors listed in the following table. Connector Symbol on the circuit board Check For power supply connection CN9 For supply fan motor connection CN10 For damper motor connection CN10 For damper motor connection CN113, CN114, CN119, CN121 ⁻² *1 Connect TAB1 to the power supply via the reactor. *2 Only LGH-F940RVX2-E and LGH-F1200RVX2-E are equipped with CN121. Lower Unit: CN113, CN114, CN119 Upper Unit: CN113, CN121 [3] Attach the control circuit board in the reverse order of the steps for removing, and then connect the connectors, remote controller transmission cable, M-NET transmission cable, and external signal cable, etc. Be sure to connect the connectors or terminals listed in the following table. (Connect PZ-62DR-EA or PZ-43SMF-E transmission cable terminal, M-NET transmission cable terminal, and connector/terminal for external signal cable only when they are used.) Connector and terminal Symbol on the circuit board Check For thermistor connection (outdoor temperature (OA)) For power circuit board connection CN13 ⁻³ , CN14, CN19, CN21 ⁻³ TM4 [1] [2] M-NET transmission cable terminal TB5 [A] [B] For external signal cable connection TM2, TM3, CN17, CN23, CN26, CN32, CN34, CN35, CN50, CN105	1 pc.)
LG-X08DC-P5 LGH-F940RVX2-E, LGH-F1200RVX2-E LG-X08DC-P6 (Equipped with two types of the power circuit board) Be sure to connect the connectors listed in the following table. Connector Symbol on the circuit board Check For power supply connection CN9 For exhaust fan motor connection CN10 For damper motor connection CN112 For control circuit board connection CN113, CN114, CN119, CN121 ⁻² "1 Connect TAB1 to the power supply via the reactor. "2 Only LGH-F940RVX2-E and LGH-F1200RVX2-E are equipped with CN121. Lower Unit: CN113, CN114, CN119 Upper Unit: CN113, CN121 [3] Attach the control circuit board in the reverse order of the steps for removing, and then connect the connectors, remote controller transmission cable, M-NET transmission cable, and external signal cable, etc. Be sure to connect the connectors or terminals listed in the following table. (Connect PZ-62DR-EA or PZ-43SMF-E transmission cable terminal, M-NET transmission cable terminal, and connector/terminal for external signal cable only when they are used.) Connector and terminal Symbol on the circuit board Check For thermistor connection (outdoor temperature (OA)) For power circuit board connection CN5 CN7 CN6 CN7 CN7 CN7 CN8 CN9 CN13 ⁻³ , CN14, CN19, CN21 ⁻³ CN6 CN7 CN7 CN13 ⁻³ , CN14, CN19, CN21 ⁻³ CN8 CN13 ⁻³ , CN14, CN19, CN21 ⁻³ CN9 CN13 ⁻³ , CN14, CN19, CN21 ⁻³ CN13 ⁻³ , CN14 ⁻³ , CN19, CN21 ⁻³ CN13 ⁻³ , CN14 ⁻³ , CN19, CN21 ⁻³ CN13 ⁻³ , CN19 ⁻³ , C	Earth fixing crew (1 pc.)
LG-X08DC-P6 (Equipped with two types of the power circuit board)	orew (1 pc.)
Connector Symbol on the circuit board Check For power supply connection TAB1*1, TAB2 For exhaust fan motor connection CN9 For supply fan motor connection CN10 For damper motor connection CN12 For control circuit board connection CN113, CN114, CN119, CN121*2 **1 Connect TAB1 to the power supply via the reactor. **2 Only LGH-F940RVX2-E and LGH-F1200RVX2-E are equipped with CN121. Lower Unit: CN113, CN114, CN119 Upper Unit: CN113, CN121 [3] Attach the control circuit board in the reverse order of the steps for removing, and then connect the connectors, remote controller transmission cable, M-NET transmission cable, and external signal cable, etc. Be sure to connect the connectors or terminals listed in the following table. (Connect PZ-62DR-EA or PZ-43SMF-E transmission cable terminal, M-NET transmission cable terminal, and connector/terminal for external signal cable only when they are used.) Connector and terminal Symbol on the circuit board Check For thermistor connection (outdoor temperature (OA)) For thermistor connection (indoor temperature (RA)) For power circuit board connection CN5 CN5 For power circuit board connection CN6 CN7 TM4 [1] [2] M-NET transmission cable terminal TM4 [1] [2] M-NET transmission cable terminal TM5 [A] [B] For external signal cable connection TM2, TM3, CN17, CN23, CN26, CN32, CN34, CN35, CN50, CN105	
For power supply connection For exhaust fan motor connection For supply fan motor connection For damper motor connection CN10 For control circuit board connection CN113, CN114, CN119, CN121*2 **Tonnect TAB1 to the power supply via the reactor. **2 Only LGH-F940RVX2-E and LGH-F1200RVX2-E are equipped with CN121. Lower Unit: CN113, CN114, CN119 Upper Unit: CN113, CN121 [3] Attach the control circuit board in the reverse order of the steps for removing, and then connect the connectors, remote controller transmission cable, M-NET transmission cable, and external signal cable, etc. Be sure to connect the connectors or terminals listed in the following table. (Connect PZ-62DR-EA or PZ-43SMF-E transmission cable terminal, M-NET transmission cable terminal, and connector/terminal for external signal cable only when they are used.) Connector and terminal Symbol on the circuit board Check For thermistor connection (outdoor temperature (OA)) For power circuit board connection (indoor temperature (RA)) For power circuit board connection CN5 CN5 End TM2, TM3, CN17, CN23, CN26, CN32, CN34, CN35, CN50, CN105	
For exhaust fan motor connection For supply fan motor connection For damper motor connection For control circuit board connection CN12 For control circuit board connection CN113, CN114, CN119, CN121*2 *1 Connect TAB1 to the power supply via the reactor. *2 Only LGH-F940RVX2-E and LGH-F1200RVX2-E are equipped with CN121. Lower Unit: CN113, CN114, CN119 Upper Unit: CN113, CN121 [3] Attach the control circuit board in the reverse order of the steps for removing, and then connect the connectors, remote controller transmission cable, M-NET transmission cable, and external signal cable, etc. Be sure to connect the connectors or terminals listed in the following table. (Connect PZ-62DR-EA or PZ-43SMF-E transmission cable terminal, M-NET transmission cable terminal, and connector/terminal for external signal cable only when they are used.) Connector and terminal Symbol on the circuit board Check For thermistor connection (outdoor temperature (OA)) For power circuit board connection (indoor temperature (RA)) For power circuit board connection CN5 CN5 TM4 [1] [2] M-NET transmission cable terminal TB5 [A] [B] For external signal cable connection CN32, CN34, CN35, CN50, CN105	
For supply fan motor connection For damper motor connection For control circuit board connection CN12 For control circuit board connection CN113, CN114, CN119, CN121*2 *1 Connect TAB1 to the power supply via the reactor. *2 Only LGH-F940RVX2-E and LGH-F1200RVX2-E are equipped with CN121. Lower Unit: CN113, CN114, CN119 Upper Unit: CN113, CN121 [3] Attach the control circuit board in the reverse order of the steps for removing, and then connect the connectors, remote controller transmission cable, M-NET transmission cable, and external signal cable, etc. Be sure to connect the connectors or terminals listed in the following table. (Connect PZ-62DR-EA or PZ-43SMF-E transmission cable terminal, M-NET transmission cable terminal, and connector/terminal for external signal cable only when they are used.) Connector and terminal Symbol on the circuit board Check For thermistor connection (outdoor temperature (OA)) For thermistor connection (indoor temperature (RA)) For power circuit board connection PZ-62DR-EA or PZ-43SMF-E transmission cable terminal M-NET transmission cable terminal TM4 [1] [2] M-NET transmission cable terminal TM4 [1] [2] TM2, TM3, CN17, CN23, CN26, CN32, CN34, CN35, CN50, CN105	
For damper motor connection For control circuit board connection CN113, CN114, CN119, CN121*2 **1 Connect TAB1 to the power supply via the reactor. **2 Only LGH-F940RVX2-E and LGH-F1200RVX2-E are equipped with CN121. Lower Unit: CN113, CN114, CN119 Upper Unit: CN113, CN121 [3] Attach the control circuit board in the reverse order of the steps for removing, and then connect the connectors, remote controller transmission cable, M-NET transmission cable, and external signal cable, etc. Be sure to connect the connectors or terminals listed in the following table. (Connect PZ-62DR-EA or PZ-43SMF-E transmission cable terminal, M-NET transmission cable terminal, and connector/terminal for external signal cable only when they are used.) Connector and terminal Symbol on the circuit board Check For thermistor connection (outdoor temperature (OA)) For thermistor connection (indoor temperature (RA)) For power circuit board connection CN5 CN5 TM4 [1] [2] M-NET transmission cable terminal TB5 [A] [B] For external signal cable connection CN32, CN34, CN35, CN50, CN105	
For control circuit board connection CN113, CN114, CN119, CN121*2 *1 Connect TAB1 to the power supply via the reactor. *2 Only LGH-F940RVX2-E and LGH-F1200RVX2-E are equipped with CN121. Lower Unit: CN113, CN114, CN119 Upper Unit: CN113, CN121 [3] Attach the control circuit board in the reverse order of the steps for removing, and then connect the connectors, remote controller transmission cable, M-NET transmission cable, and external signal cable, etc. Be sure to connect the connectors or terminals listed in the following table. (Connect PZ-62DR-EA or PZ-43SMF-E transmission cable terminal, M-NET transmission cable terminal, and connector/terminal for external signal cable only when they are used.) Connector and terminal Symbol on the circuit board Check For thermistor connection (outdoor temperature (OA)) For thermistor connection (indoor temperature (RA)) For power circuit board connection CN5 CN5 CN5 M-NET transmission cable terminal TM4 [1] [2] M-NET transmission cable terminal TM4 [1] [2] M-NET transmission cable terminal TM5 [A] [B] For external signal cable connection CN32, CN34, CN35, CN50, CN105	
*1 Connect TAB1 to the power supply via the reactor. *2 Only LGH-F940RVX2-E and LGH-F1200RVX2-E are equipped with CN121. Lower Unit: CN113, CN114, CN119 Upper Unit: CN113, CN121 [3] Attach the control circuit board in the reverse order of the steps for removing, and then connect the connectors, remote controller transmission cable, M-NET transmission cable, and external signal cable, etc. Be sure to connect the connectors or terminals listed in the following table. (Connect PZ-62DR-EA or PZ-43SMF-E transmission cable terminal, M-NET transmission cable terminal, and connector/terminal for external signal cable only when they are used.) Connector and terminal Symbol on the circuit board Check For thermistor connection (outdoor temperature (OA)) For thermistor connection (indoor temperature (RA)) For power circuit board connection PZ-62DR-EA or PZ-43SMF-E transmission cable terminal M-NET transmission cable terminal TM4 [1] [2] M-NET transmission cable terminal TM5 [A] [B] For external signal cable connection TM2, TM3, CN17, CN23, CN26, CN36, CN32, CN34, CN35, CN50, CN105	
*2 Only LGH-F940RVX2-E and LGH-F1200RVX2-E are equipped with CN121. Lower Unit: CN113, CN114, CN119 Upper Unit: CN113, CN121 [3] Attach the control circuit board in the reverse order of the steps for removing, and then connect the connectors, remote controller transmission cable, M-NET transmission cable, and external signal cable, etc. Be sure to connect the connectors or terminals listed in the following table. (Connect PZ-62DR-EA or PZ-43SMF-E transmission cable terminal, M-NET transmission cable terminal, and connector/terminal for external signal cable only when they are used.) Connector and terminal Symbol on the circuit board Check For thermistor connection (outdoor temperature (OA)) For thermistor connection (indoor temperature (RA)) For power circuit board connection CN5 CN5 TM4 [1] [2] M-NET transmission cable terminal M-NET transmission cable terminal TB5 [A] [B] For external signal cable connection CN32, CN34, CN35, CN50, CN105	
then connect the connectors, remote controller transmission cable, M-NET transmission cable, and external signal cable, etc. Be sure to connect the connectors or terminals listed in the following table. (Connect PZ-62DR-EA or PZ-43SMF-E transmission cable terminal, M-NET transmission cable terminal, and connector/terminal for external signal cable only when they are used.) Connector and terminal Symbol on the circuit board Check For thermistor connection (outdoor temperature (OA)) For thermistor connection (indoor temperature (RA)) For power circuit board connection CN5 CN5 CN6 CN7 CN7 CN7 CN8 CN8 CN9 CN9 CN13*3, CN14, CN19, CN21*3 TM4 [1] [2] M-NET transmission cable terminal TM4 [1] [2] M-NET transmission cable terminal TM5 [A] [B] For external signal cable connection TM2, TM3, CN17, CN23, CN26, CN32, CN34, CN35, CN50, CN105	
(Connect PZ-62DR-EA or PZ-43SMF-E transmission cable terminal, M-NET transmission cable terminal, and connector/terminal for external signal cable only when they are used.) Connector and terminal Symbol on the circuit board Check For thermistor connection (outdoor temperature (OA)) For thermistor connection (indoor temperature (RA)) For power circuit board connection PZ-62DR-EA or PZ-43SMF-E transmission cable terminal M-NET transmission cable terminal M-NET transmission cable terminal TB5 [A] [B] For external signal cable connection TM2, TM3, CN17, CN23, CN26, CN32, CN34, CN35, CN50, CN105	Circuit board xing screw 1 pc.)
Connector and terminal Symbol on the circuit board Check For thermistor connection (outdoor temperature (OA)) For thermistor connection (indoor temperature (RA)) For power circuit board connection PZ-62DR-EA or PZ-43SMF-E transmission cable terminal M-NET transmission cable terminal M-NET transmission cable terminal TM2, TM3, CN17, CN23, CN26, CN32, CN34, CN35, CN50, CN105	PCB fix plate xing screw 2 pcs.)
For thermistor connection (outdoor temperature (OA)) For thermistor connection (indoor temperature (RA)) For power circuit board connection CN5 PZ-62DR-EA or PZ-43SMF-E transmission cable terminal M-NET transmission cable terminal For external signal cable connection TM2, TM3, CN17, CN23, CN26, CN32, CN34, CN35, CN50, CN105	Connector
(outdoor temperature (OA)) For thermistor connection (indoor temperature (RA)) For power circuit board connection PZ-62DR-EA or PZ-43SMF-E transmission cable terminal M-NET transmission cable terminal For external signal cable connection TM2, TM3, CN17, CN23, CN26, CN32, CN34, CN35, CN50, CN105 Transmission connection TM2 TM2, TM3, CN17, CN23, CN26, CN32, CN34, CN35, CN50, CN105	onnection
(indoor temperature (RA)) For power circuit board connection PZ-62DR-EA or PZ-43SMF-E transmission cable terminal M-NET transmission cable terminal For external signal cable connection CN13*3, CN14, CN19, CN21*3 TM4 [1] [2] TM5 [A] [B] TM2, TM3, CN17, CN23, CN26, CN32, CN34, CN35, CN50, CN105	PZ-62DR-EA ransmis-
For power circuit board connection PZ-62DR-EA or PZ-43SMF-E transmission cable terminal M-NET transmission cable terminal For external signal cable connection CN13*3, CN14, CN19, CN21*3 TM4 [1] [2] TM5 [A] [B] E Si CN32, CN34, CN35, CN50, CN105	ion cable connection
PZ-62DR-EA or PZ-43SMF-E transmission cable terminal M-NET transmission cable terminal For external signal cable connection TM4 [1] [2] TM5 [A] [B] TM2, TM3, CN17, CN23, CN26, CN32, CN34, CN35, CN50, CN105	M-NET trans-
M-NET transmission cable terminal TB5 [A] [B] For external signal cable connection TB5 [A] [B] TM2, TM3, CN17, CN23, CN26, CN32, CN34, CN35, CN50, CN105	nission cable connection
CN32, CN34, CN35, CN50, CN105	External
, I OK	ignal cable connection
*3 Only LGH-F940RVX2-E and LGH-F1200RVX2-E are equipped with CN13 and CN21.	
	Cover screw black)

Step	Details	Check item	
6	Function setting with PZ-62DR-EA		
	When PZ-62DR-EA is connected, according to the function status record data prepared in Step 2, set the function settings with PZ-62DR-EA. If PZ-62DR-EA is not connected, skip this step and proceed to Step 7. To perform function settings with PZ-62DR-EA, see the Lossnay Operating/Installation Instructions or PZ-62DR-E Instruction Book.	Address setting Function setting	
	The selection method for "M-NET address" on the function setting screen differs between when the address setting switch on the Lossnay circuit board is set (the address is other than "00") and when it is not set (the address is "00"). Check the address setting of the replaced circuit board.		
	<when "00"="" address="" is="" other="" setting="" switch="" than="" the=""> For all function settings, always select the address of the Lossnay unit which the circuit boards were replaced. Even when there are multiple Lossnay units in the group, do not select "All".</when>		
	<when "00"="" address="" is="" switch="" the=""> Always select "All".</when>		
	Note: • When changing the settings of the function selection switches and address setting switches on the circuit board after the functions were set with PZ-62DR-EA, reset the function settings according to "(7) Initialization (page 51)". After resetting the function settings, perform the function settings again in the order of Step 5 [1] and Step 6.		
	• If you change the M-NET address after the functions were set with PZ-62DR-EA, the settings with PZ-62DR-EA will be reset. In this case, set the functions again with PZ-62DR-EA.		
7	Restarting the system		
	Turn the power back on to the Lossnay unit which the circuit boards have been replaced, or when using M-NET, turn the power back on to the power supply unit connected to the Lossnay unit. In trial operation, make sure that the Lossnay unit with replaced circuit boards oper-	Trial operation	
	ates properly, and finish replacement work.		

(7) Initialization

Set to initialize the remote controller PZ-62DR-EA function setting. All function settings which are changed by users are cancelled.

DIP	-SW	Setting	PZ-62	DR-EA	Setting	Initialization	
SW No.	Setting	check	Function No.	Setting Data	check	IIIIIIaiiZaliOII	
NI/A	-	-	100	0		N/A	
N/A			100	1		Available	

(8) Setting status record

[4] Dania information

Model name: LGH-F(300 · 380 · 470 · 600 · 940 · 1200) RVX2-E							
acturer's sensor)							

[2] Function selection switches

Enter the setting status of the function selection switches on the circuit board.

SW2	ON	OFF	
1			
2			
3			
4			
5			L
6			L
7			L
8			
9			
10			

SW5	ON	OFF
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

: Factory setting

Model selection switch

SW6	ON	OFF
1		
2		
3		
4		
5		
6		

Note: SW6 setting differs according to the model.

Model	SW6-1	SW6-2	SW6-3	SW6-4	SW6-5	SW6-6
LGH-F300RVX2-E	OFF	OFF	ON	OFF	ON	OFF
LGH-F380RVX2-E	ON	OFF	ON	OFF	ON	OFF
LGH-F470RVX2-E	OFF	ON	ON	ON	ON	OFF
LGH-F600RVX2-E	ON	ON	ON	ON	ON	OFF
LGH-F940RVX2-E	OFF	OFF	OFF	ON	ON	OFF
LGH-F1200RVX2-E	ON	OFF	OFF	ON	ON	OFF

: Factory setting

[3] Function settings

Enter the setting data of the functions set with PZ-62DR-EA.

Function No.	Setting Data						
1	(0)	30	(0)	52	(0)	75	(15)
2	(0)	31	(5)	53	(6)	76	(5)
5	(0)	32	(2)	54	(1)	77	(10)
6	(0)	33	(2)	55	(0)	78	(15)
7	(0)	34	(0)	56	(0)	83	(3)
8	(0)	36	(1)	60	(0)	84	(0)
9	(0)	37	(1)	61	(0)	85	(6)
12	(0)	38	(1)	62	(0)	86	(0)
13	(1)	39	(0)	64	(0)	87	(0)
14	(2)	40	(7)	65	(0)	88	(0)
15	(3)	41	(0)	66	(0)	89	(4)
16	(4)	42	(7)	67	(2)	90	(0)
17	(2)	43	(7)	68	(5)	91	(1)
18	(0)	44	(5)	69	(0)	92	(1)
19	(0)	45	(0)	73	(5)	93	(5)
28	(0)	46	(0)	74	(10)	100	(0)

(): Factory setting

[4] External input/output

Enter the usage of the external input/output on the control circuit board.

Terminal or connector on the circuit board	Function Name	Used	Not used	Connected device
TM2 [1] [2]	External control input			
TM2 [Y] [Z]	External control input			
TM3 [9] [10]	Monitor output			
CN17 [1] [2]	Fan speed 4 input			
CN17 [1] [3]	Fan speed 3 input			
CN17 [1] [4]	Fan speed 2 input			
CN17 [1] [5]	Fan speed 1 input			
CN23	Power for the CO ₂ sensor			
CN26 [1] [2]	Bypass mode input			
CN26 [4] [5]	CO ₂ sensor input			
CN32	Remote/local switching			
CN34	LED on the CO ₂ sensor control			
CN35	Malfunction of the CO2 sensor input			
CN50	Monitor output PZ-4GS-E			
CN105	IT communication			

9. Parts catalog

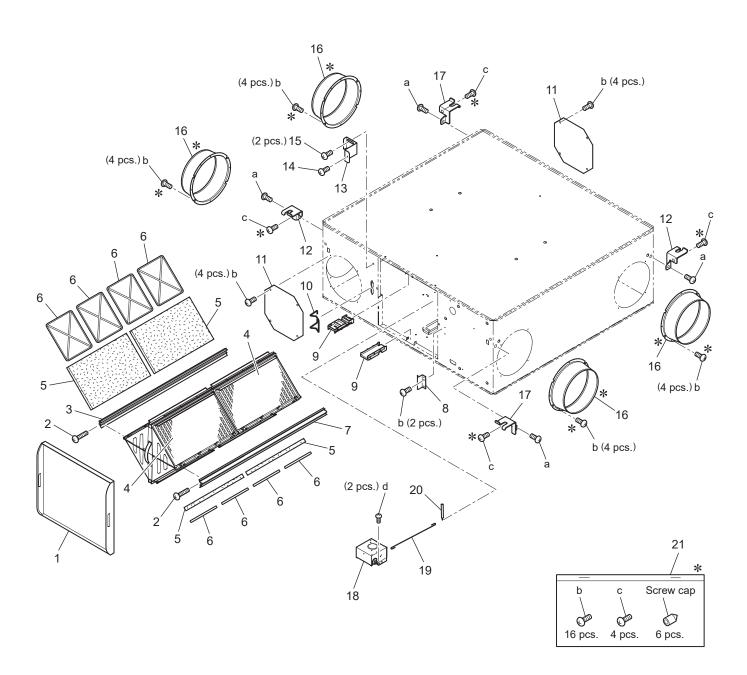
Please note the following when using the parts catalog.

- 1. When ordering parts, the part number, part name, and the number of parts are required.
- 2. It may take time for you to receive the parts. Make an inquiry about a rush order.
- 3. Specifications may be subject to change without notice.
- 4. Parts marked with △ and are critical for safety.
- 5. To maintain safety and performance, use the parts specified in the parts catalog.
- 6. When replacing the parts to which the nameplate is attached, remove the nameplate and attach it to the new parts.

Description of screw abbreviations



Abbreviation	Description
PC screw	Cross recess flat head machine screw
PRC screw	Cross recess oval head machine screw
PP screw	Cross recess pan head machine screw
SW · PP screw	Cross recess pan head screw with spring washer
PPT screw	Cross recess tapping screw
PCT screw	Cross recess flat head tapping screw
PTT screw	Cross recess truss head tapping screw
PT screw	Cross recess truss head machine screw
SET screw	Slotted head stop screw
SQ · SET screw	Square head stop screw
P · SET screw	Pan head stop screw
PMT screw	Primer truss head screw
HS · SET screw	Hexagon head stop screw
P · R · W screw	Cross recess round wood screw
P · C · W screw	Cross recess flat head wood screw
P · R · C · W screw	Cross recess round and flat wood screw
R · W screw	Slotted round wood screw
PW · PP screw	Cross recess pan head screw with small washer
SW-PW · PP screw	Cross recess pan head machine screw with spring washer and flat washer



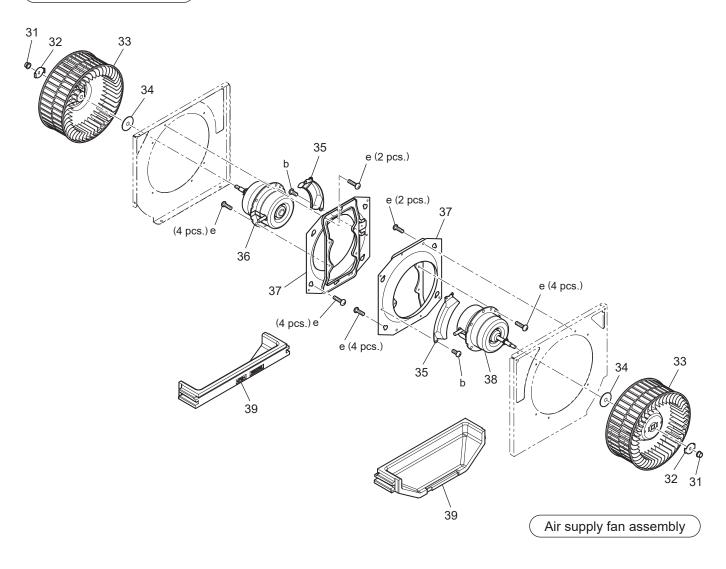
<Standard screws>

0 (01) (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0				
Symbol	Screw name			
а	PT screw 6x12			
b	PTT screw 4x8			
С	PT screw 5x10			
d	PTT screw 4x6			

 $\begin{tabular}{ll} * shows accessory parts. \end{tabular}$

No.	Name of part	Parts No.	Q'ty pcs/unit	Critical for safety	Remarks
1	Maintenance cover	W50 013 709	1		
2	Special screw M4	W00 000 101	2		
3	Core guide L	W50 013 382	1		
4	Lossnay core	W50 004 719	2	⚠	With the filter stoppers
5	Filter	W50 023 717	4	⚠	
6	Filter stopper	W50 016 710	8		
7	Core guide R	W50 013 389	1		
8	Fix piece	W50 013 722	1		
9	Lead support	W50 013 705	2		
10	Hinge	W50 004 344	1		
11	Cover	W50 003 707	2		
12	Hanger L	W36 002 380	2		
13	Fix piece	W50 004 731	1		
14	Special screw 4x8	W00 000 089	4		
15	Special screw 4x8	W00 000 098	2		
16	Flange	W50 004 609	4		
17	Hanger R	W50 004 380	2		
18	GM assembly	W50 019 260	1	⚠	AC220 · 240V
19	Rod	W50 013 151	1		
20	Pull spring	W50 013 156	1		
21	Screws in bag	W50 013 051	1		

Air exhaust fan assembly

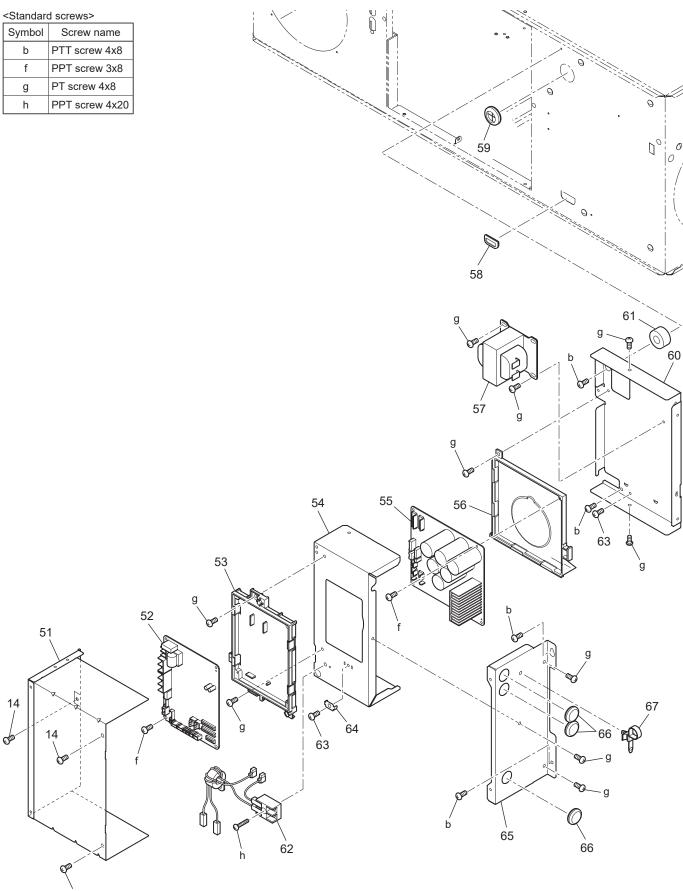


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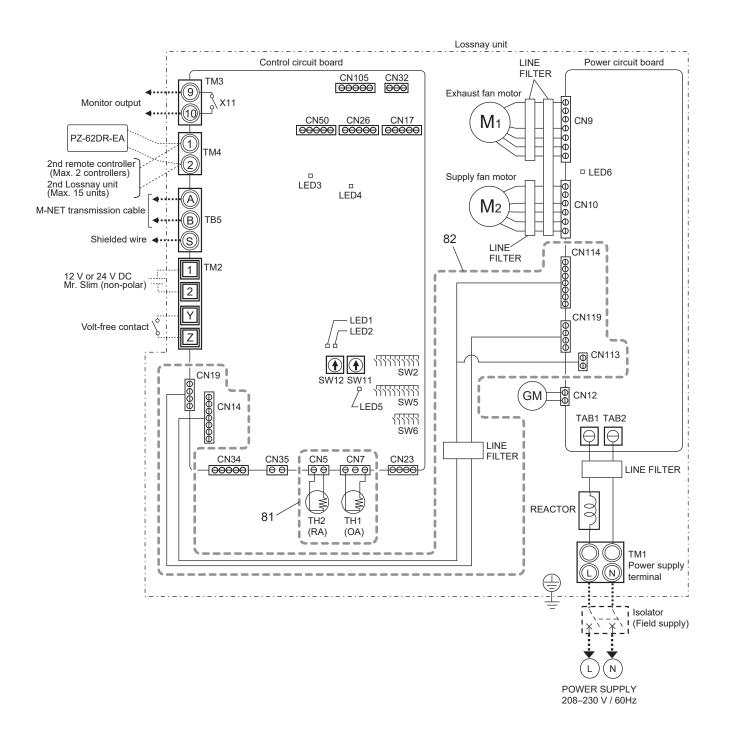
Symbol	Screw name	
а	PTT screw 4x8	
е	PTT screw 5x10	

No.	Name of part	Parts No.	Q'ty pcs/unit	Critical for safety	Remarks
31	Special nut (M8)	W00 000 121	2		Left-handed
32	Tab washer	W00 000 134	2		
33	Centrifugal fan	W50 013 481	2	⚠	Dia. 8 3/4 inch (220 mm)
34	Special washer (10)	W50 003 478	2		Outer dia. 1 37/64 inch (40 mm)
35	Air guide	W50 013 508	2		
36	DC motor (EA)	W50 023 454	1	⚠	With the ferrite core
37	Motor fix plate	W50 013 723	2		
38	DC motor (SA)	W50 023 453	1	⚠	With the ferrite core
39	Separator	W50 013 486	2		

Symbol	Screw name
b	PTT screw 4x8
f	PPT screw 3x8
g	PT screw 4x8
h	PPT screw 4x20

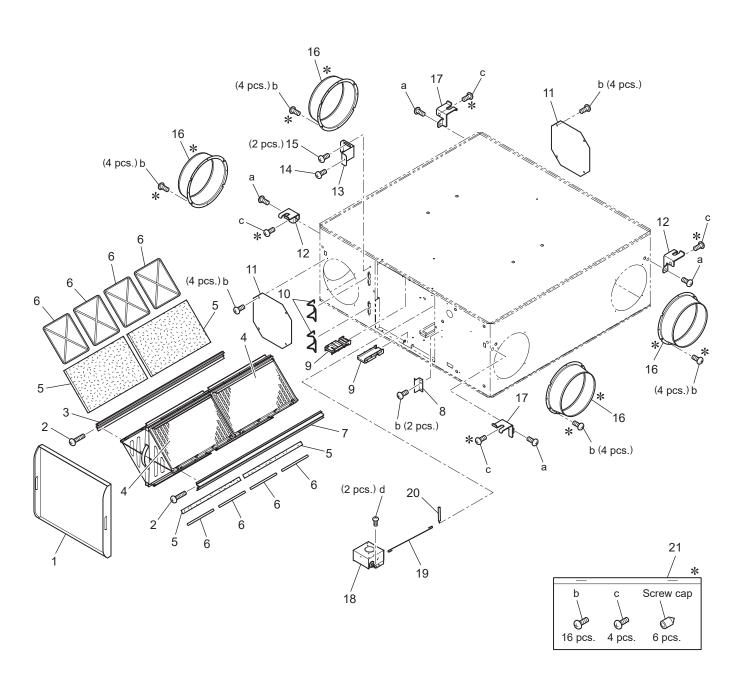


No.	Name of part	Parts No.	Q'ty pcs/unit	Critical for safety	Remarks
51	Control box cover	W50 019 707	1		
52	Circuit board	W50 021 171	1		Control
53	PCB fix plate	W50 021 706	1		
54	Sub control base	W50 021 715	1		
55	Circuit board	W50 021 172	1	A	Power
56	PCB case	W50 021 380	1		
57	Reactor	W50 004 179	1		AC10A
58	Bush	W00 000 278	1		
59	Cord bush	W00 000 277	1		
60	Control base	W50 019 704	1		
61	Ferrite core	W50 023 179	1	⚠	
62	Terminal block	W50 021 213	1	⚠	2P, With the lead wires
63	PT screw 4x8 BS	W00 000 011	2		
64	Earth fix plate	W82 001 706	1		
65	Side plate	W50 019 706	1		
66	Cord bush	W00 000 270	3		
67	Cord band	W00 000 258	1		





No.	Name of part	Parts No.	Q'ty pcs/unit	Critical for safety	Remarks		
81	Thermistor	W50 023 167	1	⚠	OA·RA set		
82	Lead wire	W50 021 214	1	⚠			
83	Lead wire	W50 004 231	1	⚠	3 15/16 inch (100 mm)		

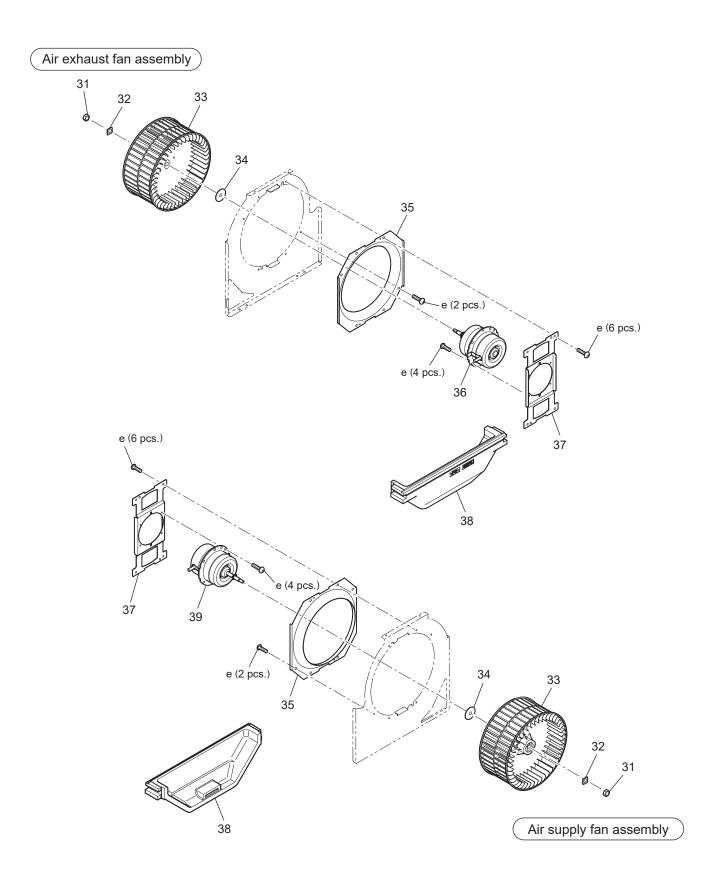


<Standard screws>

- tai: aa: a - c : c : c						
Symbol	Screw name					
а	PT screw 6x12					
b	PTT screw 4x8					
С	PT screw 5x10					
d	PTT screw 4x6					

 $\begin{tabular}{ll} * shows accessory parts. \end{tabular}$

No.	Name of part	Parts No.	Q'ty pcs/unit	Critical for safety	Remarks
1	Maintenance cover	W50 013 710	1		
2	Special screw M4	W00 000 101	2		
3	Core guide L	W50 013 383	1		
4	Lossnay core	W50 023 710	2	⚠	With the filter stoppers
5	Filter	W50 023 718	4	⚠	
6	Filter stopper	W50 023 711	8		
7	Core guide R	W50 013 390	1		
8	Fix piece	W50 013 722	1		
9	Lead support	W50 013 705	2		
10	Hinge	W50 004 344	2		
11	Cover	W50 003 707	2		
12	Hanger L	W36 002 380	2		
13	Fix piece	W50 004 731	1		
14	Special screw 4x8	W00 000 089	4		
15	Special screw 4x8	W00 000 098	2		
16	Flange	W50 004 609	4		
17	Hanger R	W50 004 380	2		
18	GM assembly	W50 023 260	1	⚠	AC220 · 240V
19	Rod	W50 013 150	1		
20	Pull spring	W50 013 157	1		
21	Screws in bag	W50 013 051	1		

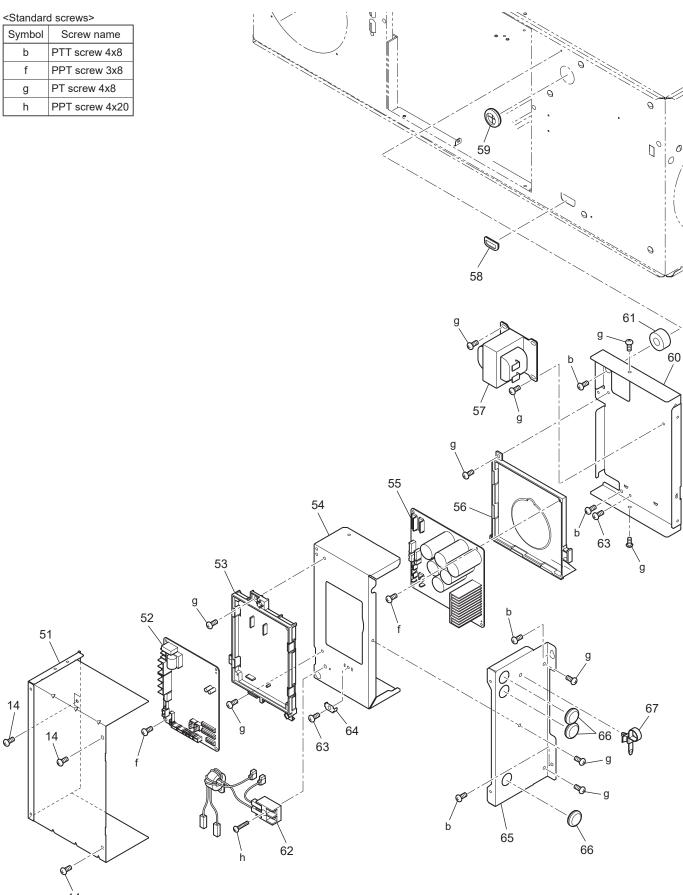


<Standard screws>

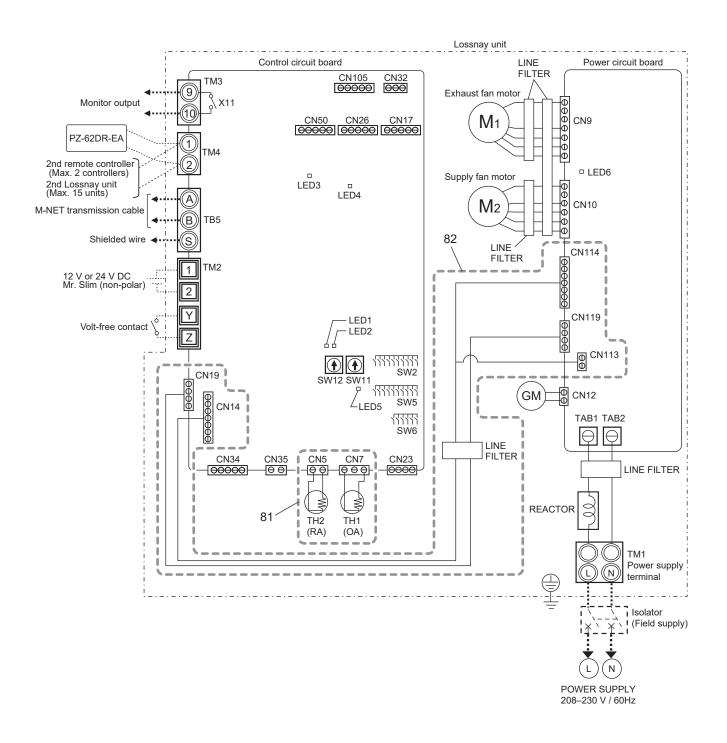
Symbol	Screw name
е	PTT screw 5x10

No.	Name of part	Parts No.	Q'ty pcs/unit	Critical for safety	Remarks
31	Special Nut (M10)	W00 000 195	2		Left-handed
32	Tab washer	W50 013 712	2		
33	Centrifugal fan	W50 013 482	2	⚠	Dia. 9 5/8 inch (245 mm)
34	Special washer (10)	W50 003 478	2		Outer dia. 1 37/64 inch (40 mm)
35	Inlet ring	W50 004 725	2		
36	DC motor (EA)	W50 023 456	1	⚠	With the ferrite core
37	Motor fix plate	W50 013 724	2		
38	Separator	W50 003 488	2		
39	DC motor (SA)	W50 023 455	1	⚠	With the ferrite core

Symbol	Screw name			
b	PTT screw 4x8			
f	PPT screw 3x8			
g	PT screw 4x8			
h	PPT screw 4x20			



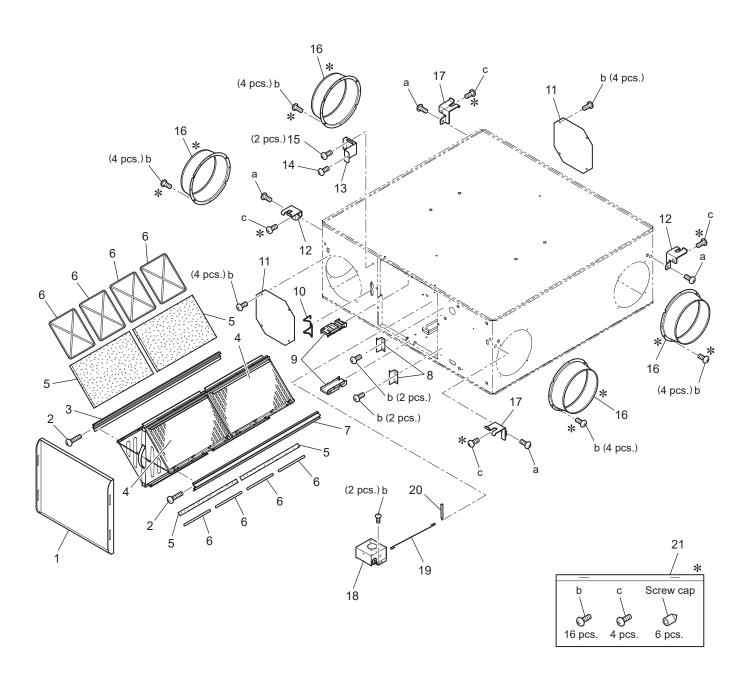
No.	Name of part	Parts No.	Q'ty pcs/unit	Critical for safety	Remarks
51	Control box cover	W50 019 707	1		
52	Circuit board	W50 021 171	1		Control
53	PCB fix plate	W50 021 706	1		
54	Sub control base	W50 021 715	1		
55	Circuit board	W50 021 172	1	A	Power
56	PCB case	W50 021 380	1		
57	Reactor	W50 004 179	1		AC10A
58	Bush	W00 000 278	1		
59	Cord bush	W00 000 277	1		
60	Control base	W50 019 704	1		
61	Ferrite core	W50 023 179	1	Æ	
62	Terminal block	W50 021 213	1	Æ	2P, With the lead wires
63	PT screw 4x8 BS	W00 000 011	2		
64	Earth fix plate	W82 001 706	1		
65	Side plate	W50 019 706	1		
66	Cord bush	W00 000 270	3		
67	Cord band	W00 000 258	1		





No.	Name of part	Parts No.	Q'ty pcs/unit	Critical for safety	Remarks
81	Thermistor	W50 023 167	1	Æ	OA·RA set
82	Lead wire	W50 021 214	1	⚠	
83	Lead wire	W50 004 231	1	⚠	3 15/16 inch (100 mm)

LGH-F470RVX2-E



<Standard screws>

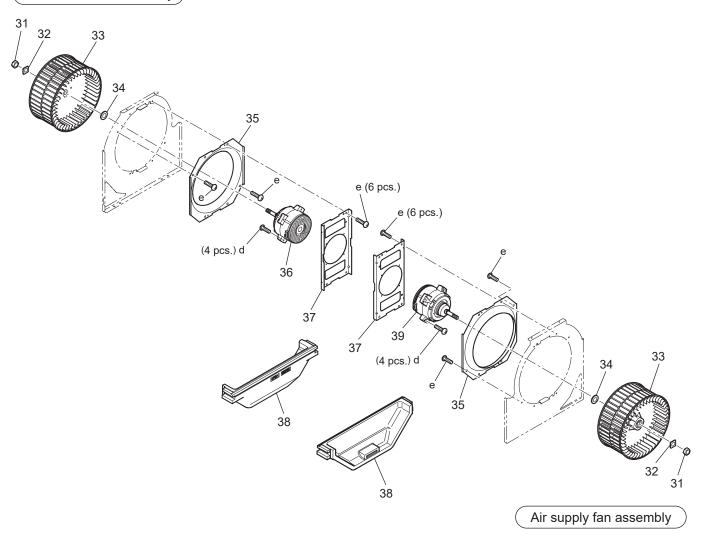
Standard Sciews/						
Symbol	mbol Screw name					
а	PT screw 6x12					
b	PTT screw 4x8					
С	PT screw 5x10					

* shows accessory parts.

LGH-F470RVX2-E

No.	Name of part	Parts No.	Q'ty pcs/unit	Critical for safety	Remarks
1	Maintenance cover	W50 013 711	1		
2	Special screw M4	W00 000 101	2		
3	Core guide L	W50 013 384	1		
4	Lossnay core	W50 004 720	2	⚠	With the filter stoppers
5	Filter	W50 023 719	4	⚠	
6	Filter stopper	W50 016 711	8		
7	Core guide R	W50 013 391	1		
8	Fix piece	W50 013 722	2		
9	Lead support	W50 013 706	2		
10	Hinge	W50 004 344	1		
11	Cover	W50 003 708	2		
12	Hanger L	W36 002 380	2		
13	Fix piece	W50 004 731	1		
14	Special screw 4x8	W00 000 089	4		
15	Special screw 4x8	W00 000 098	2		
16	Flange	W50 003 610	4		
17	Hanger R	W50 004 380	2		
18	GM assembly	W50 023 260	1	⚠	AC220 · 240V
19	Rod	W50 004 150	1		
20	Pull spring	W50 013 157	1		
21	Screws in bag	W50 013 051	1		

Air exhaust fan assembly

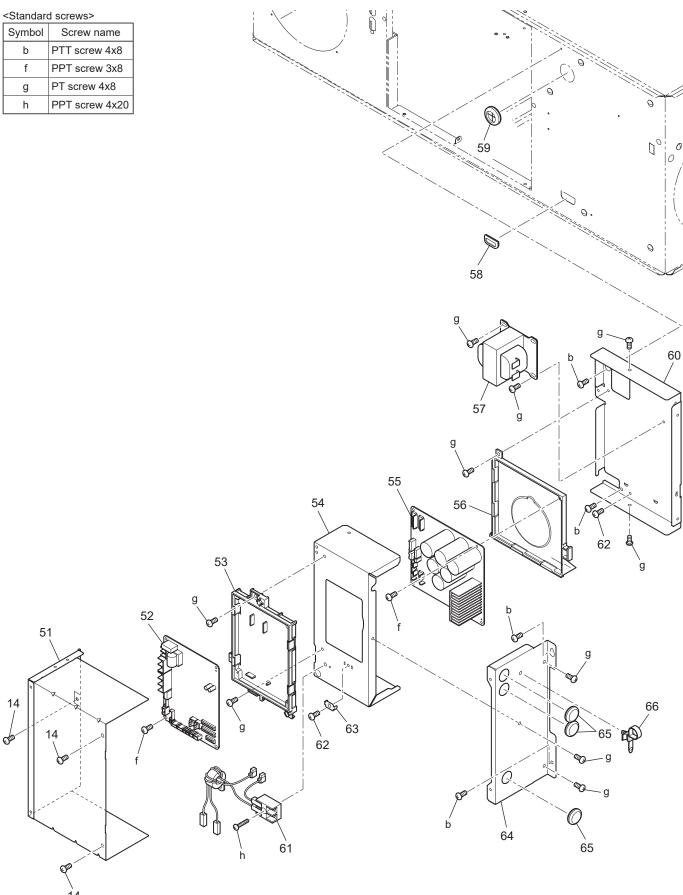


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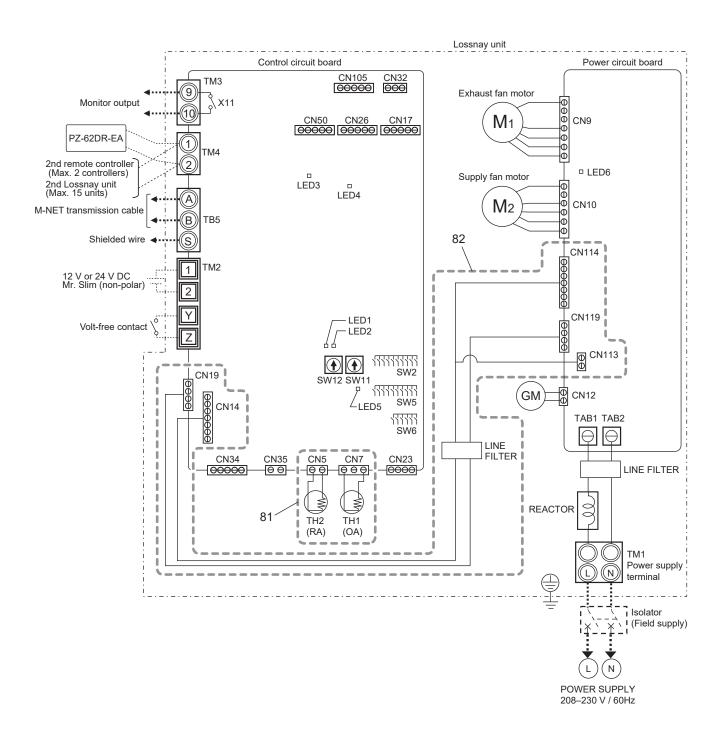
Symbol	Screw name
d	PTT screw 4x25
е	PTT screw 5x10

No.	Name of part	Parts No.	Q'ty pcs/unit	Critical for safety	Remarks
31	Special nut (M12)	W00 000 117	2		Left-handed
32	Tab washer	W50 004 730	2		
33	Centrifugal fan	W50 004 482	2	⚠	Dia. 9 5/8 inch (245 mm)
34	Washer (12)	W00 000 123	2		Outer dia. 15/16 inch (24 mm)
35	Inlet ring	W50 004 725	2		
36	DC motor (EA)	W50 023 458	1	⚠	
37	Motor fix plate	W50 004 736	2		
38	Separator	W50 013 487	2		
39	DC motor (SA)	W50 023 457	1	Æ	

Symbol	Screw name
b	PTT screw 4x8
f	PPT screw 3x8
g	PT screw 4x8
h	PPT screw 4x20

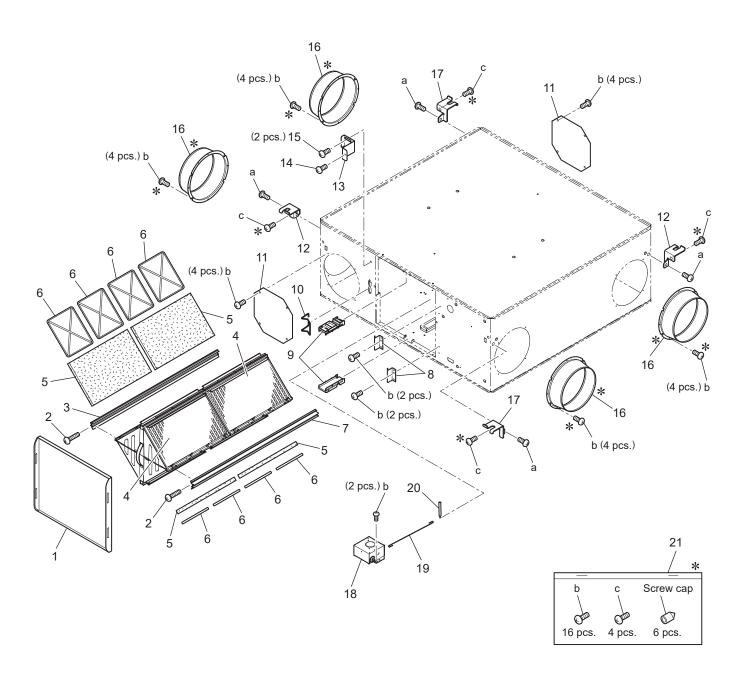


No.	Name of part	Parts No.	Q'ty pcs/unit	Critical for safety	Remarks
51	Control box cover	W50 019 707	1		
52	Circuit board	W50 021 171	1	⚠	Control
53	PCB fix plate	W50 021 706	1		
54	Sub control base	W50 021 715	1		
55	Circuit board	W50 023 171	1	A	Power
56	PCB case	W50 021 380	1		
57	Reactor	W50 004 180	1	⚠	AC6.5A
58	Bush	W00 000 278	1		
59	Cord bush	W00 000 277	1		
60	Control base	W50 019 704	1		
61	Terminal block	W50 021 213	1	⚠	2P, With the lead wires
62	PT screw 4x8 BS	W00 000 011	2		
63	Earth fix plate	W82 001 706	1		
64	Side plate	W50 019 706	1		
65	Cord bush	W00 000 270	3		
66	Cord band	W00 000 258	1		





No.	Name of part	Parts No.	Q'ty pcs/unit	Critical for safety	Remarks
81	Thermistor	W50 023 167	1	⚠	OA·RA set
82	Lead wire	W50 021 214	1	⚠	
83	Lead wire	W50 004 231	1	⚠	3 15/16 inch (100 mm)



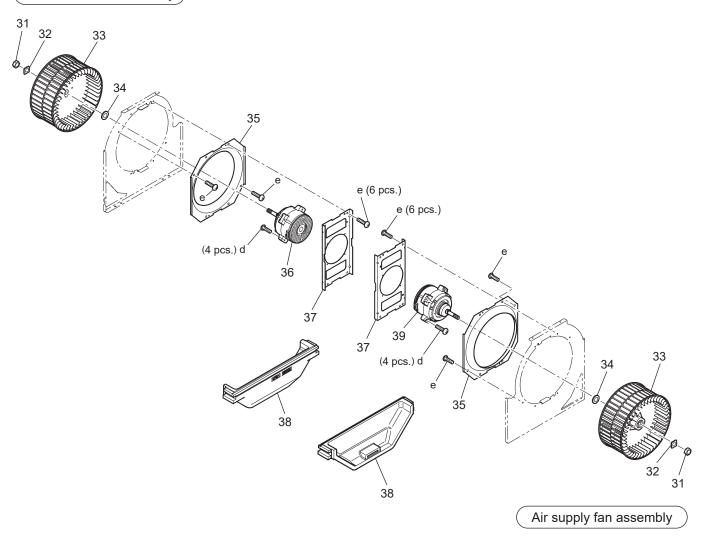
<Standard screws>

-Otalidald 3010W3					
Symbol	Screw name				
а	PT screw 6x12				
b	PTT screw 4x8				
С	PT screw 5x10				

 $\boldsymbol{\ast}$ shows accessory parts.

No.	Name of part	Parts No.	Q'ty pcs/unit	Critical for safety	Remarks
1	Maintenance cover	W50 013 711	1		
2	Special screw M4	W00 000 101	2		
3	Core guide L	W50 013 385	1		
4	Lossnay core	W50 004 721	2	\triangle	With the filter stoppers
5	Filter	W50 023 720	4	⚠	
6	Filter stopper	W50 016 711	8		
7	Core guide R	W50 013 392	1		
8	Fix piece	W50 013 722	2		
9	Lead support	W50 013 706	2		
10	Hinge	W50 004 344	1		
11	Cover	W50 003 708	2		
12	Hanger L	W36 002 380	2		
13	Fix piece	W50 004 731	1		
14	Special screw 4x8	W00 000 089	4		
15	Special screw 4x8	W00 000 098	2		
16	Flange	W50 003 610	4		
17	Hanger R	W50 004 380	2		
18	GM assembly	W50 019 262	1	⚠	AC220 · 240V
19	Rod	W50 004 150	1		
20	Pull spring	W50 013 157	1		
21	Screws in bag	W50 013 051	1		

Air exhaust fan assembly

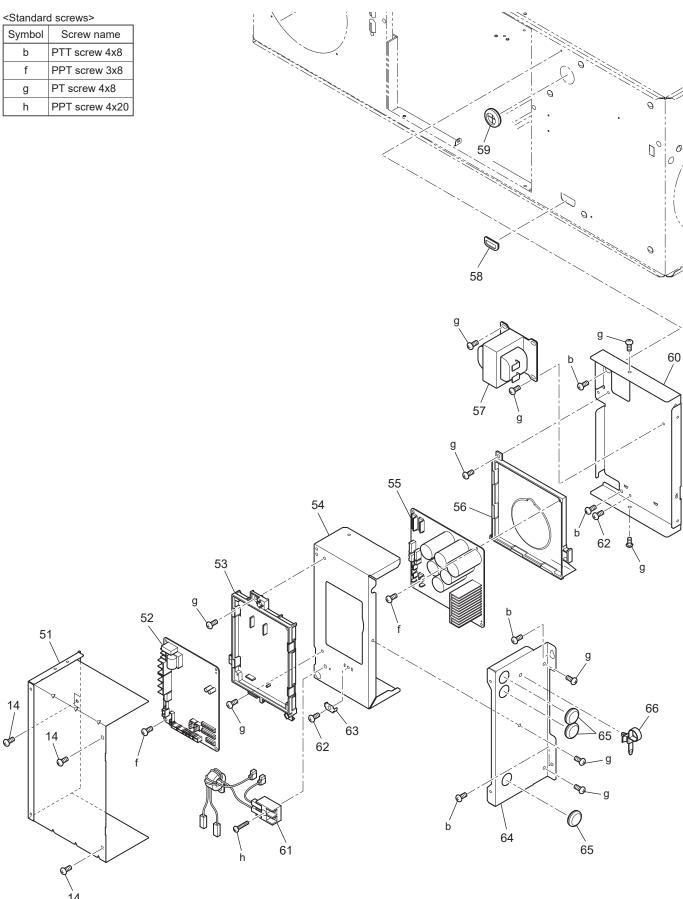


<Standard screws>

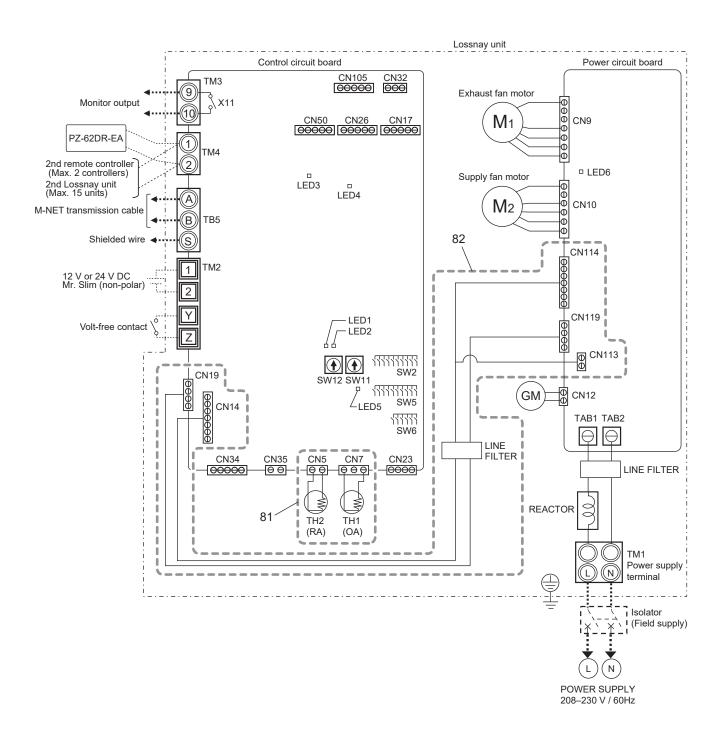
Symbol	Screw name
d	PTT screw 4x25
е	PTT screw 5x10

No.	Name of part	Parts No.	Q'ty pcs/unit	Critical for safety	Remarks
31	Special nut (M12)	W00 000 117	2		Left-handed
32	Tab washer	W50 004 730	2		
33	Centrifugal fan	W50 004 482	2	⚠	Dia. 9 5/8 inch (245 mm)
34	Washer (12)	W00 000 123	2		Outer dia. 15/16 inch (24 mm)
35	Inlet ring	W50 004 725	2		
36	DC motor (EA)	W50 023 458	1	⚠	
37	Motor fix plate	W50 004 736	2		
38	Separator	W50 013 487	2		
39	DC motor (SA)	W50 023 457	1	⚠	
		·			

Symbol	Screw name			
b	PTT screw 4x8			
f	PPT screw 3x8			
g	PT screw 4x8			
h	PPT screw 4x20			

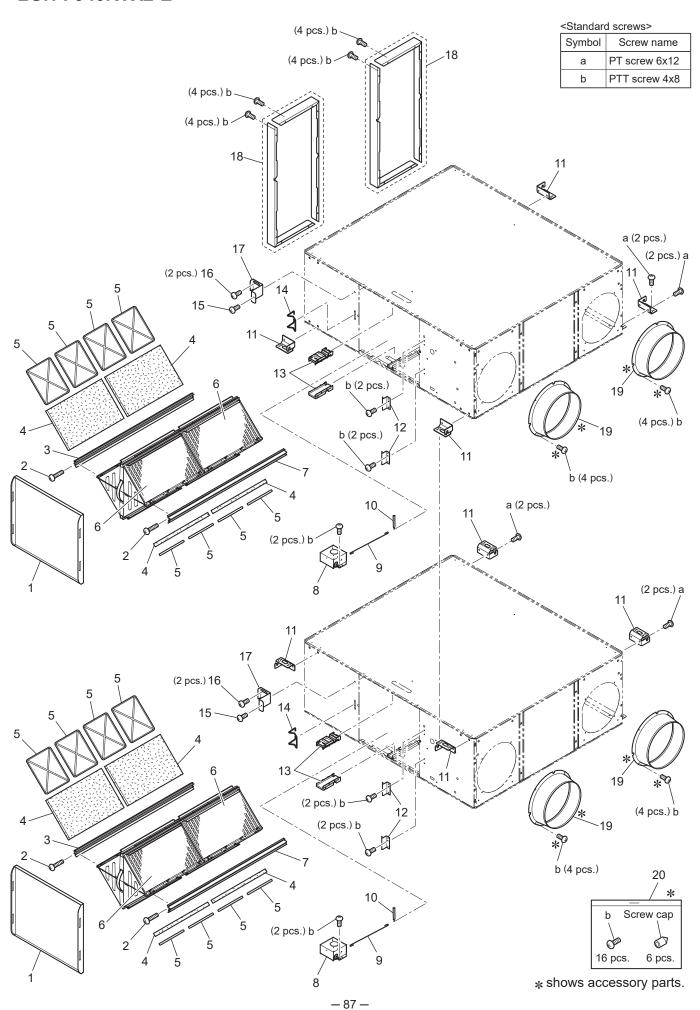


No.	Name of part	Parts No.	Q'ty pcs/unit	Critical for safety	Remarks
51	Control box cover	W50 019 707	1		
52	Circuit board	W50 021 171	1	\triangle	Control
53	PCB fix plate	W50 021 706	1		
54	Sub control base	W50 021 715	1		
55	Circuit board	W50 023 171	1	⚠	Power
56	PCB case	W50 021 380	1		
57	Reactor	W50 004 180	1	⚠	AC6.5A
58	Bush	W00 000 278	1		
59	Cord bush	W00 000 277	1		
60	Control base	W50 019 704	1		
61	Terminal block	W50 021 213	1	⚠	2P, With the lead wires
62	PT screw 4x8 BS	W00 000 011	2		
63	Earth fix plate	W82 001 706	1		
64	Side plate	W50 019 706	1		
65	Cord bush	W00 000 270	3		
66	Cord band	W00 000 258	1		

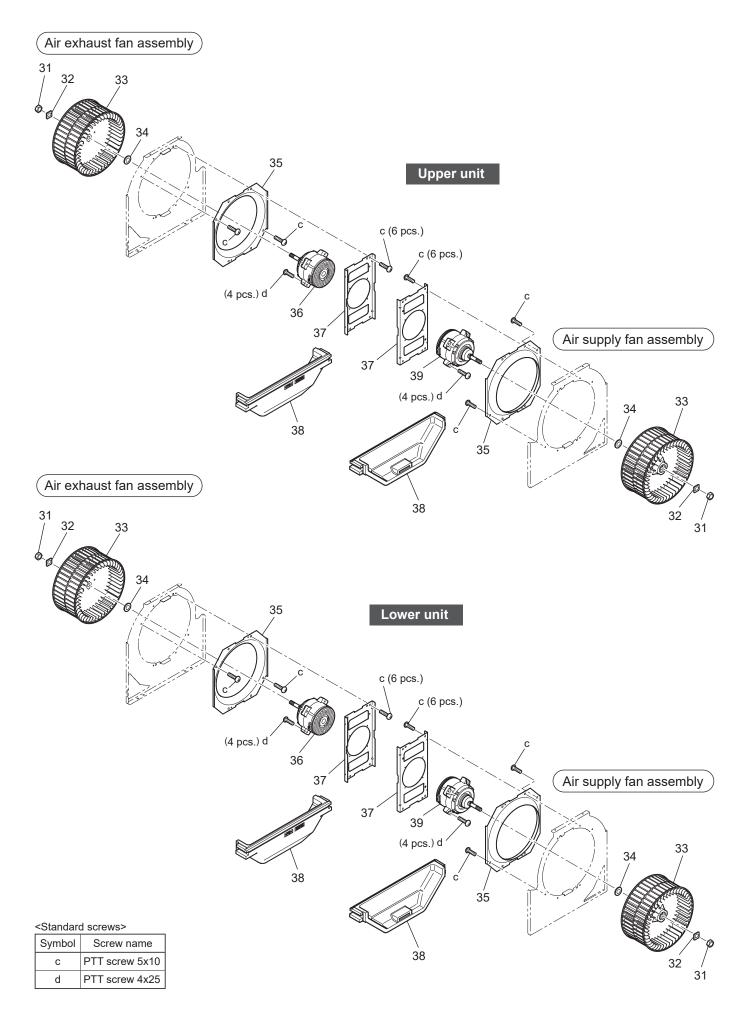




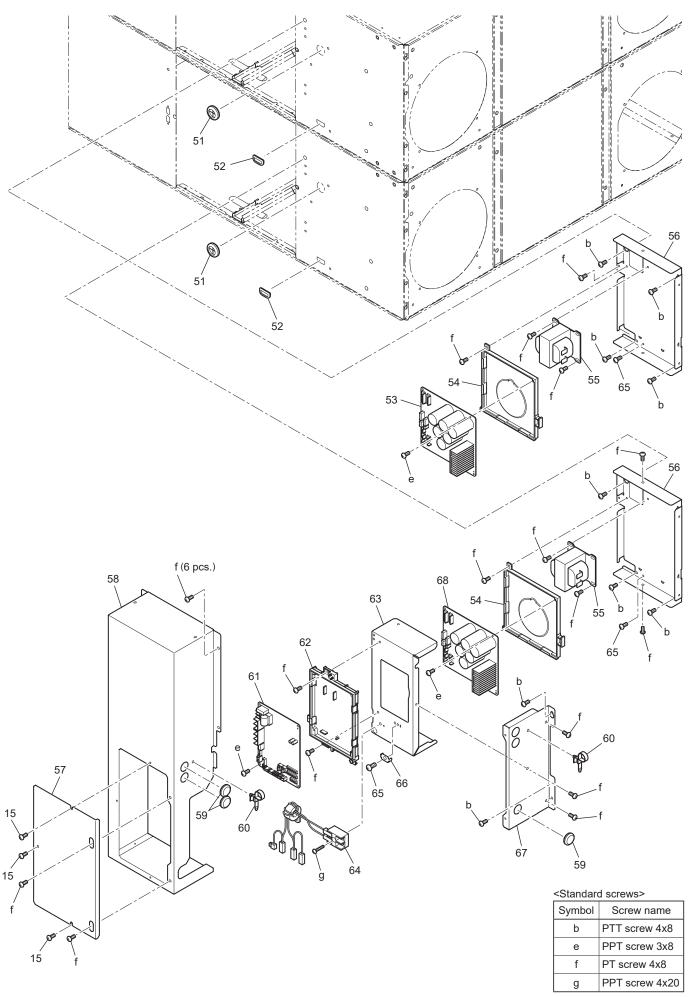
No.	Name of part	Parts No.	Q'ty pcs/unit	Critical for safety	Remarks
81	Thermistor	W50 023 168	1	⚠	OA·RA set
82	Lead wire	W50 021 214	1	⚠	
83	Lead wire	W50 004 231	1	⚠	3 15/16 inch (100 mm)



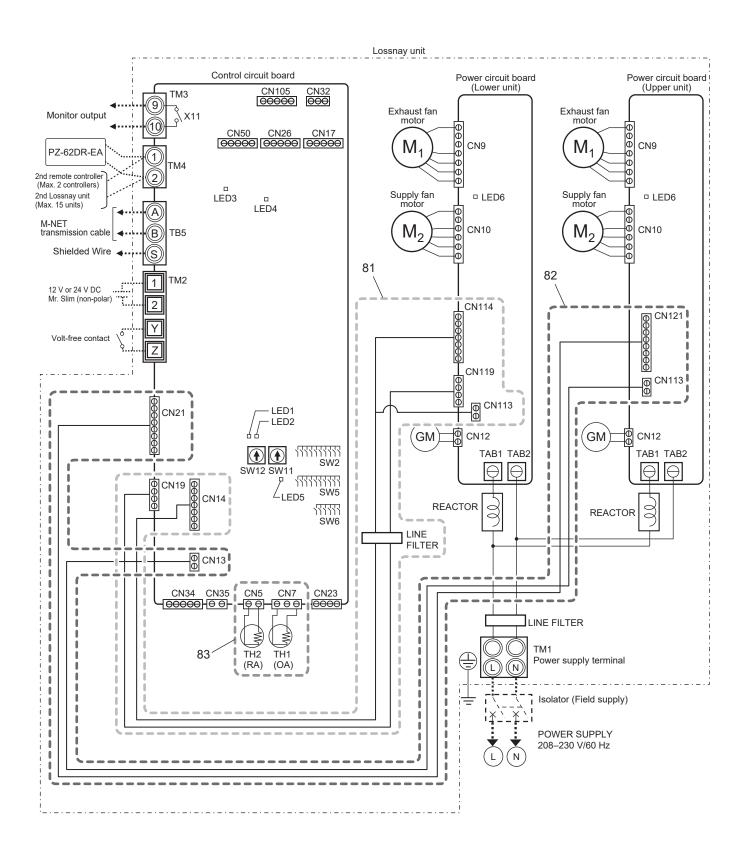
No.	Name of part	Parts No.	Q'ty pcs/unit	Critical for safety	Remarks
1	Maintenance cover	W50 013 711	2		
2	Special screw M4	W00 000 101	4		
3	Core guide L	W50 013 384	2		
4	Filter	W50 023 719	8	A	
5	Filter stopper	W50 016 711	16		
6	Lossnay core	W50 004 720	4	⚠	With the filter stoppers
7	Core guide R	W50 013 391	2		
8	GM assembly	W50 023 260	2	Æ	AC220 · 240V
9	Rod	W50 004 150	2		
10	Pull spring	W50 013 157	2		
11	Hanger	W50 001 382	8		
12	Fix piece	W50 013 722	4		
13	Lead support	W50 013 706	4		
14	Hinge	W50 004 344	2		
15	Special screw 4x8	W00 000 089	5		
16	Special screw 4x8	W00 000 098	4		
17	Fix piece	W50 004 731	2		
18	Flange (A/B)	W50 013 707	2		
19	Flange	W50 003 610	4		
20	Screws in bag	W50 013 052	1		



No.	Name of part	Parts No.	Q'ty pcs/unit	Critical for safety	Remarks
31	Special nut (M12)	W00 000 117	4		Left-handed
32	Tab washer	W50 004 730	4		
33	Centrifugal fan	W50 004 482	4	⚠	Dia. 9 5/8 inch (245 mm)
34	Washer (12)	W00 000 123	4		Outer dia. 15/16 inch (24 mm)
35	Inlet ring	W50 004 725	4		
36	DC motor (EA)	W50 023 458	2	⚠	
37	Motor fix plate	W50 004 736	4		
38	Separator	W50 013 487	4		
39	DC motor (SA)	W50 023 457	2	A	

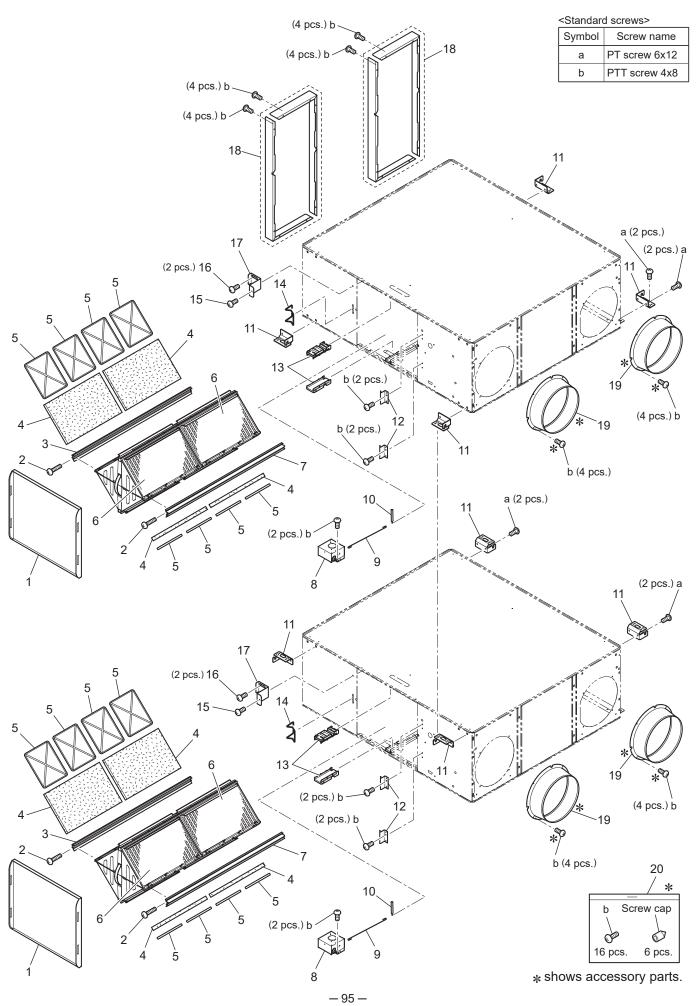


No.	Name of part	Parts No.	Q'ty pcs/unit	Critical for safety	Remarks
51	Cord bush	W00 000 277	2		
52	Bush	W00 000 278	2		
53	Circuit board	W50 023 172	1	\triangle	Power, Upper
54	PCB case	W50 021 380	2		
55	Reactor	W50 004 180	2	A	AC6.5A
56	Control base	W50 019 704	2		
57	Control cover	W50 019 709	1		
58	Control box cover	W50 019 708	1		
59	Cord bush	W00 000 270	3		
60	Cord band	W00 000 258	2		
61	Circuit board	W50 021 171	1	⚠	Control
62	PCB fix plate	W50 021 706	1		
63	Sub control base	W50 021 715	1		
64	Terminal block	W50 023 214	1	A	2P, With the lead wires
65	PT screw 4x8 BS	W00 000 011	3		
66	Earth fix plate	W82 001 706	1		
67	Side plate	W50 019 706	1		
68	Circuit board	W50 023 171	1	A	Power, Lower

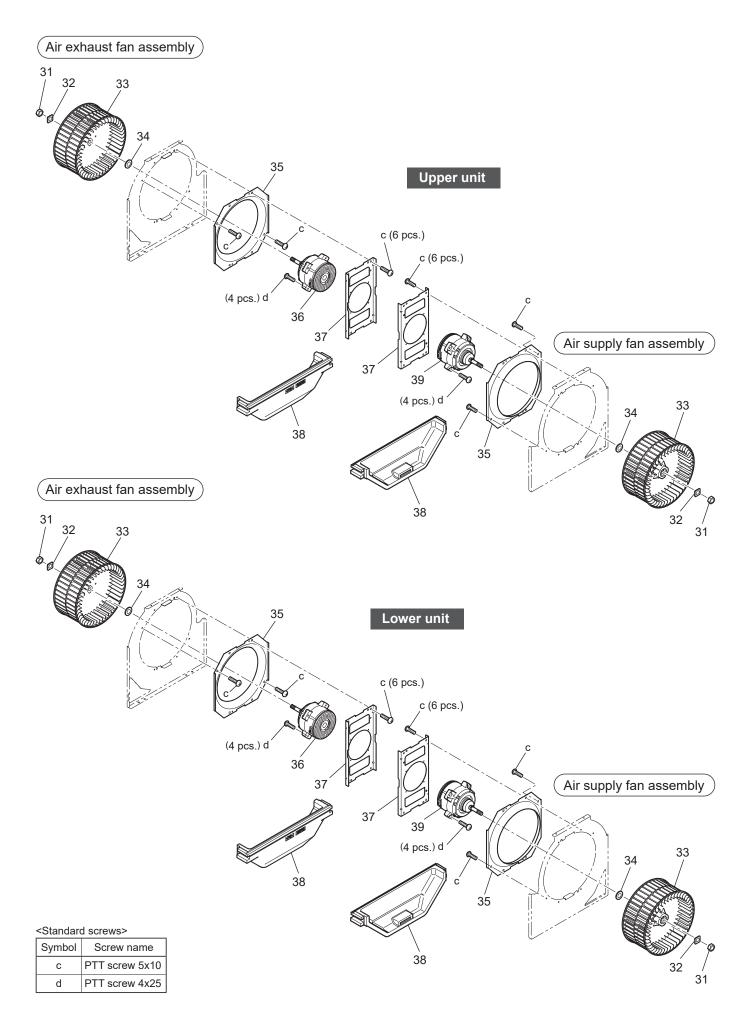




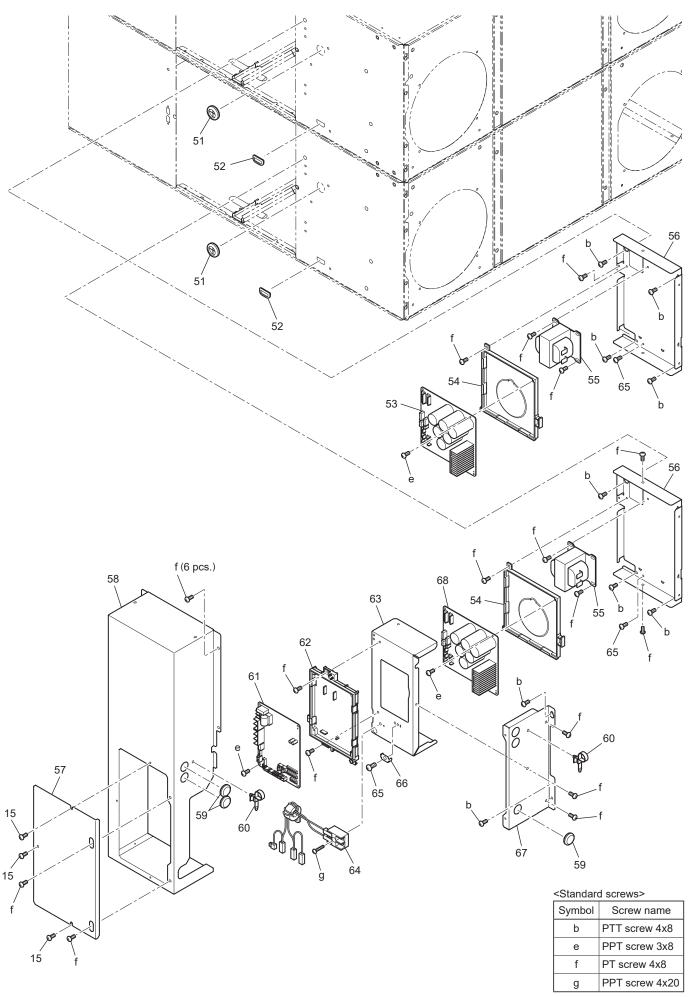
No.	Name of part	Parts No.	Q'ty pcs/unit	Critical for safety	Remarks
81	Lead wire	W50 023 213	1	⚠	
82	Lead wire	W50 021 214	1	⚠	
83	Thermistor	W50 023 167	1	⚠	OA·RA set
84	Lead wire	W50 004 231	1	⚠	3 15/16 inch (100 mm)



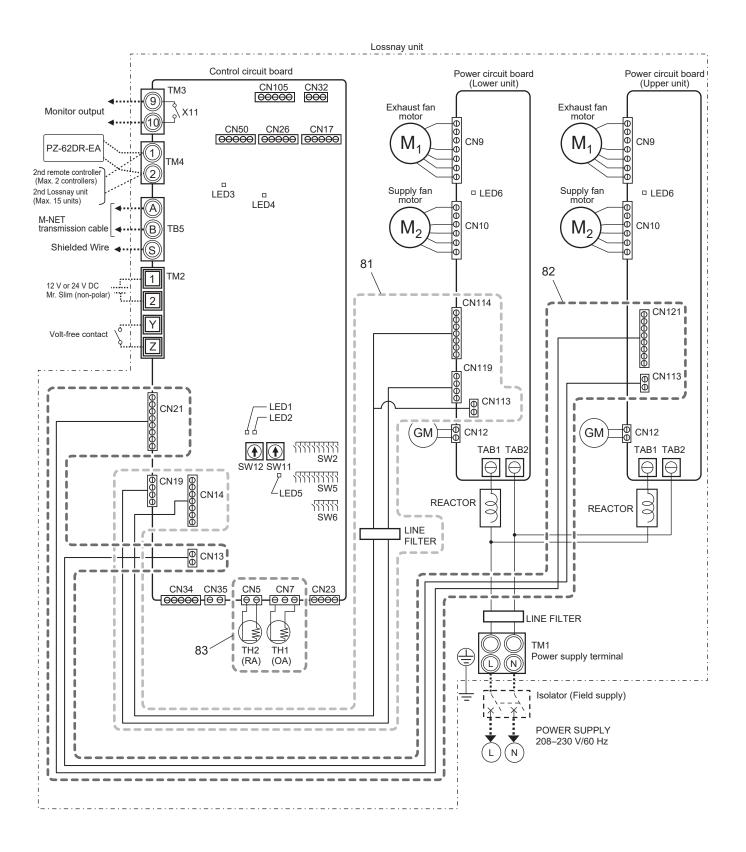
<u> </u>	1-1 12001 V / \Z-L				
No.	Name of part	Parts No.	Q'ty pcs/unit	Critical for safety	Remarks
1	Maintenance cover	W50 013 711	2		
2	Special screw M4	W00 000 101	4		
3	Core guide L	W50 013 385	2		
4	Filter	W50 023 720	8	\triangle	
5	Filter stopper	W50 016 711	16		
6	Lossnay core	W50 004 721	4	\triangle	With the filter stoppers
7	Core guide R	W50 013 392	2		
8	GM assembly	W50 019 262	2	⚠	AC220·240V
9	Rod	W50 004 150	2		
10	Pull spring	W50 013 157	2		
11	Hanger	W50 001 382	8		
12	Fix piece	W50 013 722	4		
13	Lead support	W50 013 706	4		
14	Hinge	W50 004 344	2		
15	Special screw 4x8	W00 000 089	5		
16	Special screw 4x8	W00 000 098	4		
17	Fix piece	W50 004 731	2		
18	Flange (A/B)	W50 013 707	2		
19	Flange	W50 003 610	4		
20	Screws in bag	W50 013 052	1		



No.	Name of part	Parts No.	Q'ty pcs/unit	Critical for safety	Remarks
31	Special nut (M12)	W00 000 117	4		Left-handed
32	Tab washer	W50 004 730	4		
33	Centrifugal fan	W50 004 482	4	⚠	Dia. 9 5/8 inch (245 mm)
34	Washer (12)	W00 000 123	4		Outer dia. 15/16 inch (24 mm)
35	Inlet ring	W50 004 725	4		
36	DC motor (EA)	W50 023 458	2	⚠	
37	Motor fix plate	W50 004 736	4		
38	Separator	W50 013 487	4		
39	DC motor (SA)	W50 023 457	2	⚠	



No.	Name of part	Parts No.	Q'ty pcs/unit	Critical for safety	Remarks
51	Cord bush	W00 000 277	2		
52	Bush	W00 000 278	2		
53	Circuit board	W50 023 172	1	⚠	Power, Upper
54	PCB case	W50 021 380	2		
55	Reactor	W50 004 180	2	A	AC6.5A
56	Control base	W50 019 704	2		
57	Control cover	W50 019 709	1		
58	Control box cover	W50 019 708	1		
59	Cord bush	W00 000 270	3		
60	Cord band	W00 000 258	2		
61	Circuit board	W50 021 171	1	⚠	Control
62	PCB fix plate	W50 021 706	1		
63	Sub control base	W50 021 715	1		
64	Terminal block	W50 023 214	1	⚠	2P, With the lead wires
65	PT screw 4x8 BS	W00 000 011	3		
66	Earth fix plate	W82 001 706	1		
67	Side plate	W50 019 706	1		
68	Circuit board	W50 023 171	1	⚠	Power, Lower





No.	Name of part	Parts No.	Q'ty pcs/unit	Critical for safety	Remarks
81	Lead wire	W50 023 213	1	Æ	
82	Lead wire	W50 021 214	1	⚠	
83	Thermistor	W50 023 168	1	A	OA·RA set
84	Lead wire	W50 004 231	1	A	3 15/16 inch (100 mm)