

LOSSNAY

HANDBOOK

LGH-15RVX-E 1

LGH-25RVX-E LGH-25RVX-E 1

LGH-35RVX-E 1

LGH-50RVX-E LGH-50RVX-E 1

LGH-65RVX-E LGH-65RVX-E 1

LGH-80RVX-E LGH-80RVX-E 1

LGH-100RVX-E LGH-100RVX-E 1

LGH-15RVX-ER LGH-15RVX-ER

LGH-25RVX-ER LGH-25RVX-ER

LGH-35RVX-ER LGH-35RVX-ER

LGH-50RVX-ER LGH-50RVX-ER

LGH-65RVX-ER LGH-65RVX-ER

LGH-80RVX-ER LGH-80RVX-ER

LGH-100RVX-ER LGH-100RVX-ER

LGH-150RVX-E 1

LGH-200RVX-E LGH-200RVX-E 1

LGH-150RVX-ER LGH-150RVX-ER

LGH-200RVX-ER LGH-200RVX-ER

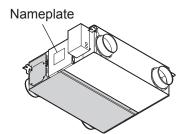
Remote controller (Optional) Filter (Optional)

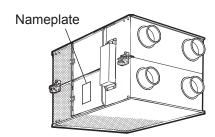
PZ-61DR-E PZ-15RF8-E, PZ-25RF8-E, PZ-35RF8-E, PZ-50RF8-E

PZ-43SMF-E PZ-65RF8-E, PZ-80RF8-E, PZ-100RF8-E



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





Contents

1.	Safety precautions 3
2.	Changed points ····· 4
	Specifications 5
4.	Outside dimensions ····· 6-8
5.	Electrical wiring diagrams 9-10
6.	Circuit board diagrams11-12
7.	Troubleshooting
	Overhauling procedures
9.	Parts catalog 51-127
	LGH-15RVX-E 1, LGH-15RVX-ER 52-59
	LGH-25RVX-E 1, LGH-25RVX-ER 60-67
	LGH-35RVX-E 1, LGH-35RVX-ER 68-75
	LGH-50RVX-E 1, LGH-50RVX-ER 76-83
	LGH-65RVX-E 1, LGH-65RVX-ER 84-91
	LGH-80RVX-E 1, LGH-80RVX-ER 92-99
	LGH-100RVX-E 1, LGH-100RVX-ER 100-107
	LGH-150RVX-E 1, LGH-150RVX-ER108-117
	LGH-200RVX-E 1, LGH-200RVX-ER118-127

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 incorrectly are described with the warning symbols shown below.



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.)

Be sure to follow

Modification is prohibited

Do not modify the unit.

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



Caution against

this instruction.

Use proper parts and tools

For repair, be sure to use the parts listed in the service 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

Use the electric wires designated for electric work, and conduct electric work in accordance with your local "Electric Installation Engineering Standard", the "Indoor Wiring Regulations" and the installation instructions.

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

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.

♦ Wear gloves

○ 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 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

Now woodel	Farmer medal	Changes from the former model						
New model	Former model	Motor	Circuit board					
LGH-15RVX-E 1	LGH-15RVX-E	-						
LGH-25RVX-E 11	LGH-25RVX-E	_						
LGH-35RVX-E 1	LGH-35RVX-E		The circuit boards were changed.					
LGH-50RVX-E 1	LGH-50RVX-E	Motor specification was changed.	The model name of the circuit					
LGH-65RVX-E 11	LGH-65RVX-E		board was changed from LG- X05DC to LG-X07DC.					
LGH-80RVX-E 1	LGH-80RVX-E	_	• The connector (CN105) was					
LGH-100RVX-E 1	LGH-100RVX-E	_	added.					
LGH-150RVX-E 1	LGH-150RVX-E	_						
LGH-200RVX-E 1	LGH-200RVX-E	-						

New model	Former model	Changes from the former model
LGH-15RVX-ER	LGH-15RVX-E 1	
LGH-25RVX-ER	LGH-25RVX-E 1	
LGH-35RVX-ER	LGH-35RVX-E 1	Recycling symbols were added to the indications on the packing mate-
LGH-50RVX-ER	LGH-50RVX-E 1	rials.
LGH-65RVX-ER	LGH-65RVX-E 1	The recycling symbol was labeled on the poly bag of the supplied screws and the bag of the Instruction Manual.
LGH-80RVX-ER	LGH-80RVX-E 11	The function and capacity of the new models "-ER type" are complete-
LGH-100RVX-ER	LGH-100RVX-E 1	ly the same as those of the former models "-E 1 type".
LGH-150RVX-ER	LGH-150RVX-E 1	
LGH-200RVX-ER	LGH-200RVX-E 1	

3. Specifications

Model name	LGH-15RVX-E 11 to LGH-200RVX-E 11, and LGH-15RVX-ER to LGH-200RVX-ER					
Heat exchange system	Heat 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 (Gravitational method 82% EU-G3)					
Surrounding air condition	Shall be between -10°C and 40°C, 80%RH or less					
Suction air condition	Shall be lower than 40°C, 80%RH					
Supply fan operation under low outdoor	-10°C to -15°C: Intermittent operation 60 min ON, 10 min OFF					
temperature	-15°C or less: Intermittent operation 55 min OFF, 5 min ON					
Function	Heat recovery mode/Bypass mode, Fan speed 1, 2, 3, 4					
Electrical power supply	220-240 V/50 Hz, 220 V/60 Hz					
Insulation resistance	10 M Ω or more					
Dielectric strength	1500 V AC 1 minute					

	Running	Input	Air volume		External static	Exchange efficiency (%)			N1	Dia. of the	\A(-1-1-1
Model name	current power		(m3/h)	(1./0)	pressure	T	Enth	alpy	Noise (dB)	centrifugal	Weight
	(A)	(W)	(m³/h)	(L/S)	(Pa)	Temperature	Heating	Cooling	(GD)	fan (mm)	(kg)
LGH-15RVX-E 1/-ER	0.40	49	150	42	95	80	73	71	28	180	20
LGH-25RVX-E 11/-ER	0.48	62	250	69	85	79	69.5	68	27	180	23
LGH-35RVX-E 11/-ER	0.98	140	350	97	160	80	71.5	71	32	220	30
LGH-50RVX-E 11/-ER	1.15	165	500	139	120	78	69	66.5	34	220	33
LGH-65RVX-E 11/-ER	1.65	252	650	181	120	77	68.5	66	34.5	245	38
LGH-80RVX-E 11/-ER	1.82	335	800	222	150	79	71	70	34.5	245	48
LGH-100RVX-E 11/-ER	2.50	420	1000	278	170	80	72.5	71	37	245	54
LGH-150RVX-E 11/-ER	3.71	670	1500	417	175	80	72	70.5	39	245	98
LGH-200RVX-E 11/-ER	4.88	850	2000	556	150	80	72.5	71	40	245	110

^{*}The above values apply during Heat recovery mode ventilation when the fan speed is set to Fan speed 4 at the rating pressure loss and 230 V / 50 Hz.

^{*}On-site commissioning measurements by pitot tube method could be as much 20% different from JIS 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 10D (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))

Model name	PZ-61DR-E
Power supply requirement	12 V DC (Supplied from Lossnay unit)
Power consumption	0.3 W
Transmission cable	Non polarized 2-wire (0.3 mm² (AWG22) sheathed cable)
Total wiring length	200 m maximum
Number of controllable Lossnay units	15 Lossnay units maximum (Max. 2 remote controllers installable)
Environmental condition	Temperature: 0 to 40°C, Humidity: 30% to 90% relative humidity (no condensation)
Size	120 x 120 x 19 mm
Weight	0.25 kg
Color	Munsell 1.0Y9.2/0.2

^{*}For the specifications at the other fan speeds, see the spec. sheets.

^{*}The values given in the table for the noise level reflect the levels measured at a position 1.5 meters 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.

^{*}Temperature exchange efficiency (%) are based on winter condition.

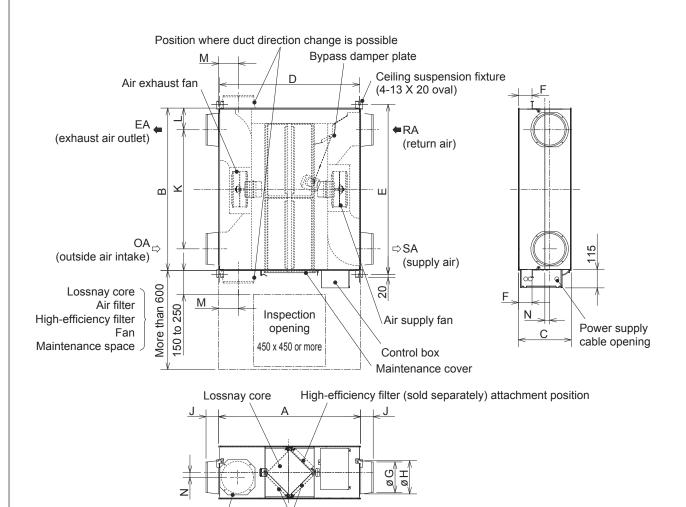
^{*}Mitsubishi Electric measures products according to Japan Industrial Standard (JIS B 8628), therefore Q-H curves are measured by chamber method.

4. Outside dimensions

Position where duct

direction change is possible

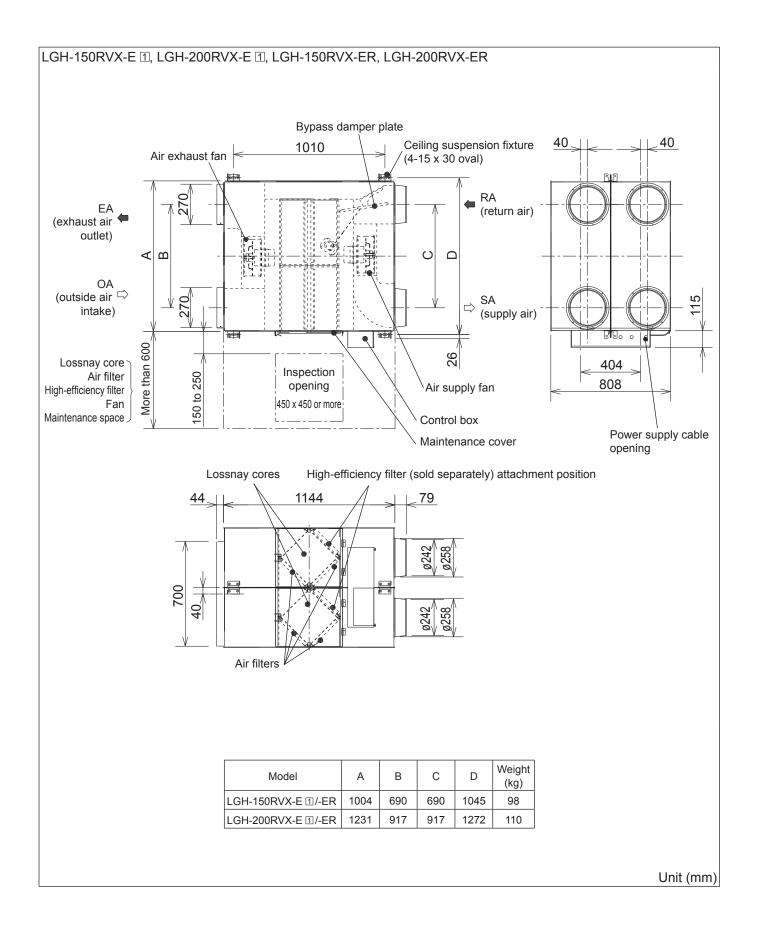
LGH-15RVX-E ①, LGH-25RVX-E ①, LGH-35RVX-E ①, LGH-50RVX-E ①, LGH-65RVX-E ①, LGH-80RVX-E ① LGH-100RVX-E ①, LGH-15RVX-ER, LGH-25RVX-ER, LGH-35RVX-ER, LGH-50RVX-ER, LGH-65RVX-ER LGH-80RVX-ER, LGH-100RVX-ER

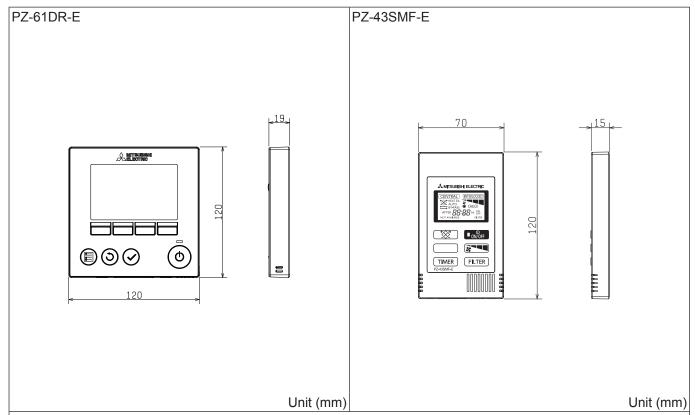


Model	Dimensions		Ceiling suspension fixture pitch		Nominal diam-	Duct connecting flange		Duct pitch				Weight			
	Α	В	С	D	Е	F	eter	G	Н	J	K	L	М	N	(kg)
LGH-15RVX-E 11/-ER	780	610	289	768	658	65	100	97.5	110	54	450	80	119	50	20
LGH-25RVX-E 11/-ER	780	735	289	768	782	65	150	142	160	64	530	102.5	102	30	23
LGH-35RVX-E 11/-ER	888	874	331	875	921	85	150	142	160	64	650	112	124	55	30
LGH-50RVX-E 11/-ER	888	1016	331	875	1063	85	200	192	208	79	745	135.5	124	30	33
LGH-65RVX-E 11/-ER	908	954	404	895	1001	70	200	192	208	79	692	131	124	_	38
LGH-80RVX-E 11/-ER	1144	1004	404	1131	1051	77	250	242	258	79	690	157	165	40	48
LGH-100RVX-E 11/-ER	1144	1231	404	1131	1278	77	250	242	258	79	917	157	165	40	54

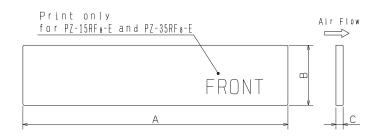
Air filters

Unit (mm)





PZ-15RF8-E, PZ-25RF8-E, PZ-35RF8-E, PZ-50RF8-E, PZ-65RF8-E, PZ-80RF8-E, PZ-100RF8-E

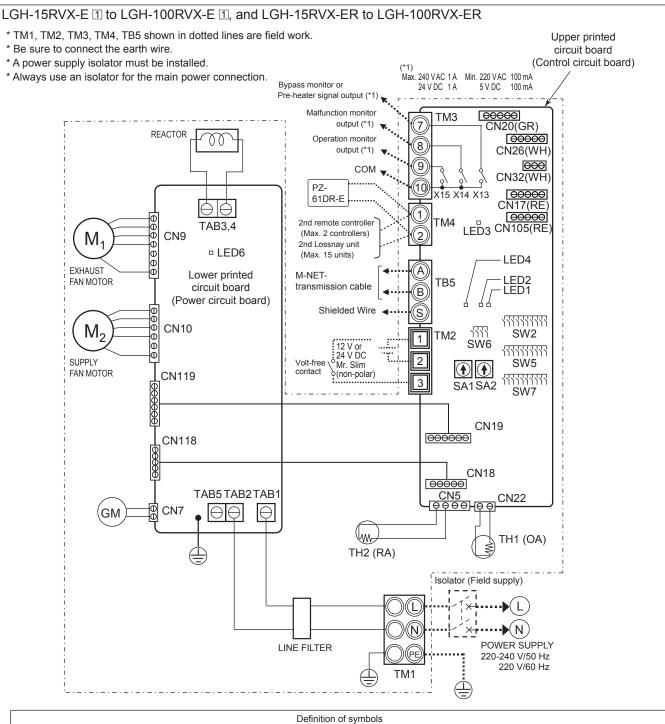


Model	Dimension			The number of filters per set		Applicable model	
	Α	В	С	Supply	Exhaust		
PZ-15RF ₈ -E	557	130	20	1	1	LGH-15RVX-E 1, LGH-15RVX-ER	
PZ-25RF ₈ -E	333	156	15	2 2		LGH-25RVX-E 1, LGH-25RVX-ER	
PZ-35RF ₈ -E	399	183	20	2 2		LGH-35RVX-E 団, LGH-35RVX-ER	
PZ-50RF ₈ -E	470	183	15	2	2	LGH-50RVX-E 団, LGH-50RVX-ER	
PZ-65RF ₈ -E	433	218	15	2	2	LGH-65RVX-E 団, LGH-65RVX-ER	
PZ-80RF ₈ -E	451	243	15	2	2	LGH-80RVX-E II, LGH-80RVX-ER LGH-150RVX-E II, LGH-150RVX-ER (Two sets)	
PZ-100RF ₈ -E	565	243	15	2	2	LGH-100RVX-E ①, LGH-100RVX-ER LGH-200RVX-E ①, LGH-200RVX-ER (Two sets)	

- Each Lossnay unit is provided with one set of the filters. (Two sets for LGH-150RVX-E ①/-ER and LGH-200RVX-E ①/-ER)
 PZ-15RF₈-E and PZ-35RF₈-E has the front and back side. Attach the filter so that the "Front" (printed) side faces the outside.

Unit (mm)

5. Electrical wiring diagrams



M1: Motor for exhaust fan
M2: Motor for supply fan
GM: Motor for Bypass damper
TH1: Thermistor for outside air
TH2: Thermistor for return air
SW2, 5, 7: Switch (Function selection)
SW6: Switch (Model selection)
TM1: Terminal block (Power supply)
TM2: Terminal block (External control input)
TM3: Terminal block (Monitor output)
TM4: Terminal block (Transmission cable)
TB5: Terminal block (M-NET Transmission cable

TAB1, TAB2, (TAB5): Connector (Power supply)

TAB3, TAB4: Connector (Reactor)

X13: Relay contact

X14: Relay contact X15: Relay contact

CN5: Connector (Thermistor RA)

CN7: Connector (Motor for Bypass damper)

CN9: Connector (Fan motor)

CN10: Connector (Fan motor)

CN17: Connector (Fan speed 1/2/3/4)

CN18: Connector CN118: Connector CN19: Connector

CN119: Connector

CN20: Connector (For communication with the Dx-coil unit)

CN22: Connector (Thermistor OA)

CN26: Connector (Bypass, 0 - 10 V DC Fan speed control)

CN32: Connector (Remote control selection) CN105: Connector (For IT communication)

SA1: Address setting rotary switch (tens digit)

SA2: Address setting rotary switch (ones digit)

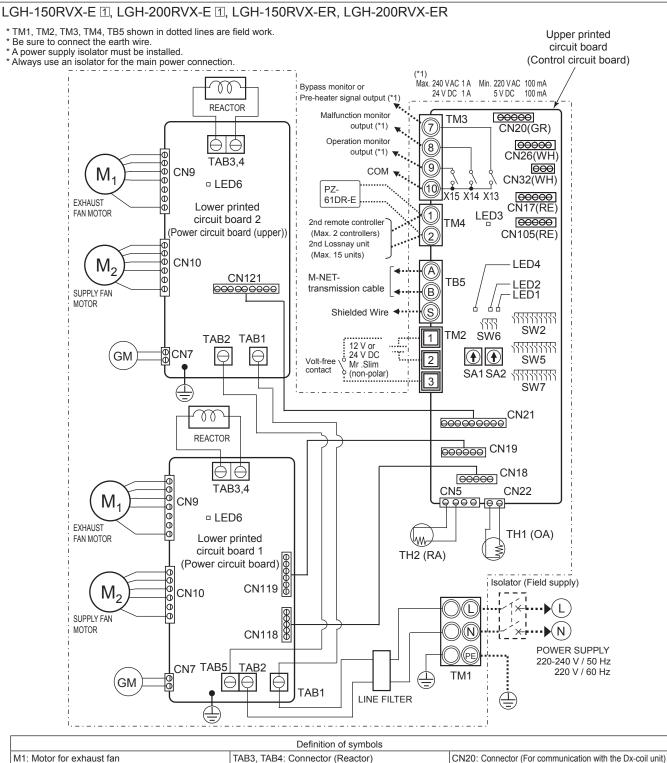
LED1, LED2: Inspection indicator lamp

LED3: Remote controller power supply indicator lamp LED4, LED6: Power supply indicator lamp

SYMBOL © \square : Terminal block, $\boxed{\square}$: Connector on PCB

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

	Model		LGH-15RVX-E 11/-ER	LGH-25RVX-E 11/-ER	LGH-35RVX-E 11/-ER	LGH-50RVX-E 11/-ER	LGH-65RVX-E 11/-ER	LGH-80RVX-E 11/-ER	LGH-100RVX-E 11/-ER
	Maximum current when o	perating [A]	0.55	0.72	1.95	2.10	2.50	2.80	3.45
	Inrush current after	10 ms				6.1			
power supply ON [A] 100 ms 3.6									



M1: Motor for exhaust fan
M2: Motor for supply fan
GM: Motor for Bypass damper
TH1: Thermistor for outside air
TH2: Thermistor for return air
SW2, 5, 7: Switch (Function selection)
SW6: Switch (Model selection)
TM1: Terminal block (Power supply)
TM2: Terminal block (External control input)
TM3: Terminal block (Monitor output)
TM4: Terminal block (Transmission cable)

TB5: Terminal block (M-NET Transmission cable)

TAB1, TAB2, TAB5: Connector (Power supply)

X14: Relay contact X15: Relay contact CN5: Connector (Thermistor RA) CN7: Connector (Motor for Bypass damper) CN9: Connector (Fan motor) CN10: Connector (Fan motor)

CN17: Connector (Fan speed 1/2/3/4) CN18: Connector CN118: Connector CN19: Connector

X13: Relay contact

CN20: Connector (For communication with the Dx-coil unit) CN21: Connector

CN121: Connector

CN22: Connector (Thermistor OA)

CN26: Connector (Bypass, 0 - 10 V DC Fan speed control)

CN32: Connector (Remote control selection) CN105: Connector (For IT communication) SA1: Address setting rotary switch (tens digit) SA2: Address setting rotary switch (ones digit)

LED1, LED2: Inspection indicator lamp

LED3: Remote controller power supply indicator lamp LED4, LED6: Power supply indicator lamp

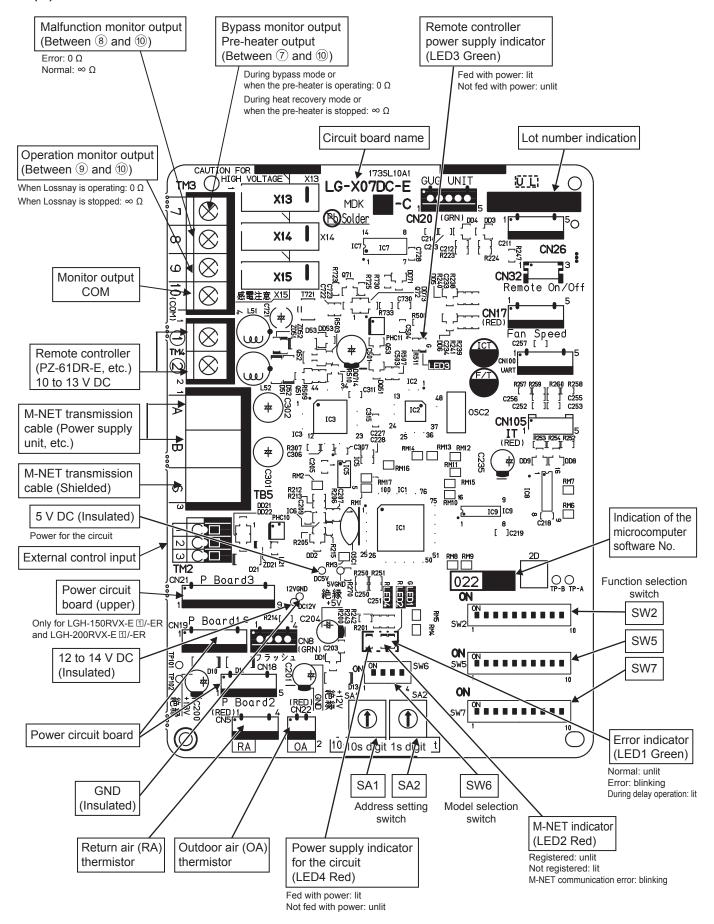
Select proper circuit breaker according to the electrical current information in the chart below.

Model		LGH-150RVX-E II, LGH-150RVX-ER	LGH-200RVX-E 🗉, LGH-200RVX-ER			
Maximum current when operating [A]		5.76	6.34			
Inrush current after	10 ms	12.2				
power supply ON [A]	100 ms	7.	.2			

CN119: Connector

6. Circuit board diagrams

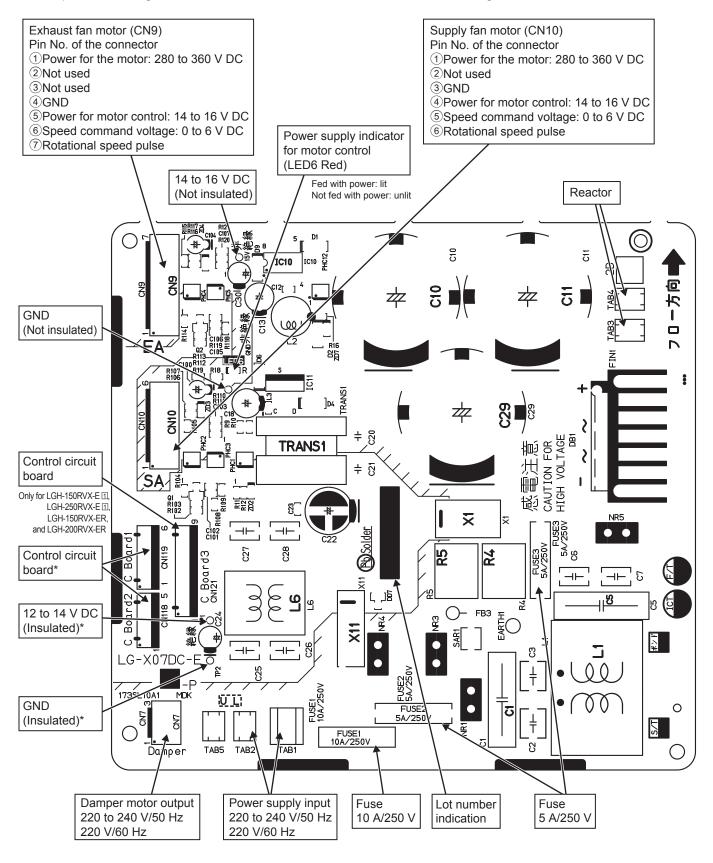
- Circuit board diagram and check points
- (1) Control circuit board



(2) Power circuit board

Caution:

The power circuit board is not insulated from the power line (high voltage part), except for the connection part (CN118,CN119, and CN121) with the control circuit board. Also, even when the power supply is cut off, the capacitor is charged. Therefore, wait for at least five minutes before starting work.



Note:

The components marked with * are not placed on the power circuit board (upper) of LGH-150RVX-E \square , LGH-200RVX-E \square , LGH-150RVX-ER, and LGH-200RVX-ER.

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, make 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.

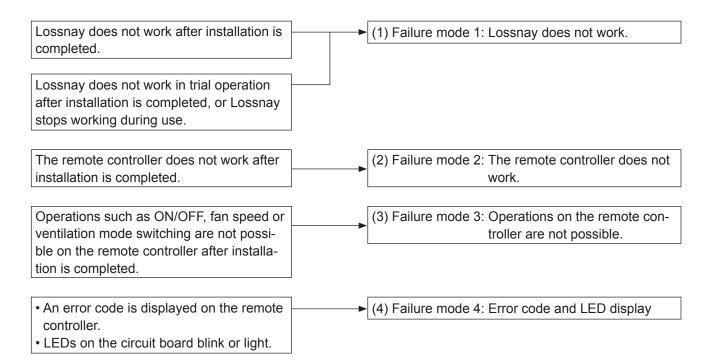
 Therefore, before servicing, wait for at least five minutes, and then use a tester to check that the voltage has dropped.
- Once the power supply is turned off, be sure to wait for at least five minutes before turning the power back on again.
- When servicing, power supply to M-NET must be turned off. Live-line working may cause a circuit board failure.
- When servicing, be sure to reproduce the malfunction two or three times before starting repairs.
- When servicing, always take care to 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 so as 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.
- If it is thought that there is a circuit board malfunction, check for disconnected wires in the print pattern, burnt parts or discoloration.
- If the circuit board is replaced, make sure that the switch settings on the new board are the same as the old board.
- Make 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.
- * The part names in the texts are standardized with the part names in the parts catalog. (There are some exceptions.)

7-1 Service flowchart

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

Applicable Device	Applicable Model
Lossnay Energy Recovery	LGH-15RVX-E 11 to LGH-200RVX-E 11
Ventilator	LGH-15RVX-ER to LGH-200RVX-ER
Lossnay Remote Controller	PZ-61DR-E, 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 occur-	• Frequency of fault occurrence (frequency of date and time of occurrence,
	rence	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 system
		controller, etc.
		 Function settings on PZ-61DR-E when PZ-61DR-E 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 after installation is completed.

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)? 220-240 V/50 Hz, 220 V/60 Hz	Supply the designated 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, TAB2, and TAB5)?	Connect the lead wires securely.
7	Is there a faulty connection on the reactor terminals (TAB3 and TAB4)? For LGH-150RVX-E ①/-ER and LGH-200RVX-E ①/-ER, check both the power circuit board and power circuit board (upper).	Connect the lead wires securely.
8	Are the power supply indicator lamps (LED4 and LED6, red) lit? For LGH-150RVX-E ①/-ER and LGH-200RVX-E ①/-ER, check both the power circuit board and power circuit board (upper).	Check the above items.

②Transmission cables (remote controller transmission cable, M-NET transmission cable, external input/output signal cable, Dx-coil unit connection 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 5 cm away from transmission cables?	Wire the power supply cable at least 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 5 cm away from the other communication cables?	Wire the cables at least 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 (SW5-10 ON).
12	Is the function selection for the external output signal set correctly?	Set the function selection switches (SW2-8, 5-2, and 5-6) on the circuit board correctly. Set the function settings (No. 57 and 58) of PZ-61DR-E correctly.

Table 2-1 M-NET transmission cable specifications

	· · · · · · · · · · · · · · · · · · ·
Cable	M-NET transmission cable
Туре	Shielded cable CVVS, CPEVS
Number of cores	2-core cable
Cable diameter	1.25 mm ² to 2.0 mm ²
Max. extension	200 m (Note 1)
Total extension	500 m (Note 2)
Terminal block	TB5 [A] [B]

Table 2-2 Remote controller transmission cable specifications

Cable	PZ-61DR-E or PZ-43SMF-E transmission cable
Туре	Sheathed cable
Number of cores	2-core cable
Cable diameter	0.3 mm² (AWG22)
Total extension	200 m
Terminal block	TM4 ① ②

(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 2-3 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)	TM2 ① ③	Level/pulse (Note 1)	Single-lead 0.8 to 1.2 mm dia. or twisted lead 0.5 to 1.5 mm ²	500 m
External control input (12 V DC, 24 V DC)	TM2 ① ②	Level/pulse (Note 1)	Single-lead 0.8 to 1.2 mm dia. or twisted lead 0.5 to 1.5 mm ²	(Note 2)
Mr. Slim indoor unit control signal	TM2 ① ②	Serial signal	Slim-Lossnay connection cable (Accessory parts)	500 m
Remote/local switching	CN32 ① ③	Level	Remote ON/OFF adaptor	
Remote ON/OFF input	CN32 ① ②	(Note 1)	(PAC-SE55RA-E)	
Fan speed 4 input (volt-free contact)	CN17 ① ②			
Fan speed 3 input (volt-free contact)	CN17 ① ③			
Fan speed 2 input (volt-free contact)	CN17 ① ④	Level		10 m
Fan speed 1 input (volt-free contact)	CN17 ① ⑤	(Note 1)	Remote display adaptor (PAC-SA88HA-E)	
Bypass mode input (volt-free contact)	CN26 ① ②			
Fan speed switching input (0 to 10 V DC)	CN26 4 5	Analog		

<Caution>

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

Level signal Volt-free contact, 12 V DC, 24 V DC, the duration of ON and OFF should be 10-second or more.

Pulse signal Volt-free contact, 12 V DC, 24 V DC, the duration of ON should be 200 msec. or more, and minimum 10-second absence is necessary to the next pulse .

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.

[•] Input the signals to the Lossnay (SW5-10 ON, with the smallest address setting) set as the main Lossnay in the group.

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 5 cm away from signal cables?	Wire the power supply cable at least 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 (SW2-8, 5-2, and 5-6) on the circuit board correctly. Set the function settings (No. 57 and 58) of PZ-61DR-E correctly. (See the Lossnay technical manual.)

Table 3-1 Monitor Output Specifications

Terminal block	TM3 9 10	TM3 8 10	TM3 7 10	
Function Name	Operation monitor	Malfunction monitor	Bypass monitor or Pre-heater	
Signal specifications	ecifications Volt-free contact			
Outract water	240 V AC, 1 A			
Output rating	24 V DC, 1 A			
Min applicable load	220 V AC, 100 mA			
Min. applicable load	5 V DC, 100 mA			

4)Function setting (See the Lossnay technical manual for details.)

No.	Check Item	Corrective action
1	Is the main Lossnay set correctly?	Check the function selection switch (SW5-10) on the circuit board. When an external signal is input to multiple Lossnay units, set one of the units in the group as the main Lossnay (SW5-10 ON).
2	Are the function selection switches on the circuit board set correctly to suit the required application?	Set the function selection switches (SW2, SW5, and SW7) on the circuit board correctly.
3	Is the applicable model used as the Lossnay remote controller?	Use PZ-61DR-E or PZ-43SMF-E. (The air conditioner remote controller including PAR-31MAA cannot be used.)
4	When PZ-61DR-E is used, are the function selections set correctly to suit the required application?	Set the function selections correctly.
5	Was a function set with the function selection switches on the circuit board after the function is set with PZ-61DR-E?	Set the function again with PZ-61DR-E. For the function that can be set with both PZ-61DR-E and the function selection switches, if the function is set to other than "DIP-SW priority" with PZ-61DR-E, setting with the function selection switches is disabled.
6	Is the Lossnay address set correctly?	Set the address setting switches (SA1 and SA2) correctly.

5LED Indications on the circuit board

	1			T
No.	LED	Contents	Check Item	Corrective action
1	LED1	Lossnay main unit	Blinking: Starting up, error occurred	See Failure Mode 4.
	(green)	error indicator	Lit: During delay operation	Lossnay operates after the delay time has passed.
			Unlit: Other than above	It is normal.
2	LED2	M-NET System	Blinking: Error occurred	See Failure Mode 4.
	(red)	error indicator	Lit: No M-NET connection information	When using M-NET, perform group registration with the system controller.
			Unlit: Other than above	It is normal.
3	LED3 (green)	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 multiple Lossnay group.
4	LED4 (red)	Power supply indicator (control circuit board)	Check that this LED is lit	The LED lights while power is being supplied to the control circuit board.
5	LED6 (red)	Power supply indicator (power circuit board)	Check that this LED is lit	The LED lights while power is being supplied to the power circuit board. (Do not touch components on the circuit board when the LED is lit.)

• Individual function check items

⑥If Lossnay does not work in the trial operation after installation is completed, or if Lossnay stops working during use, check the following items.

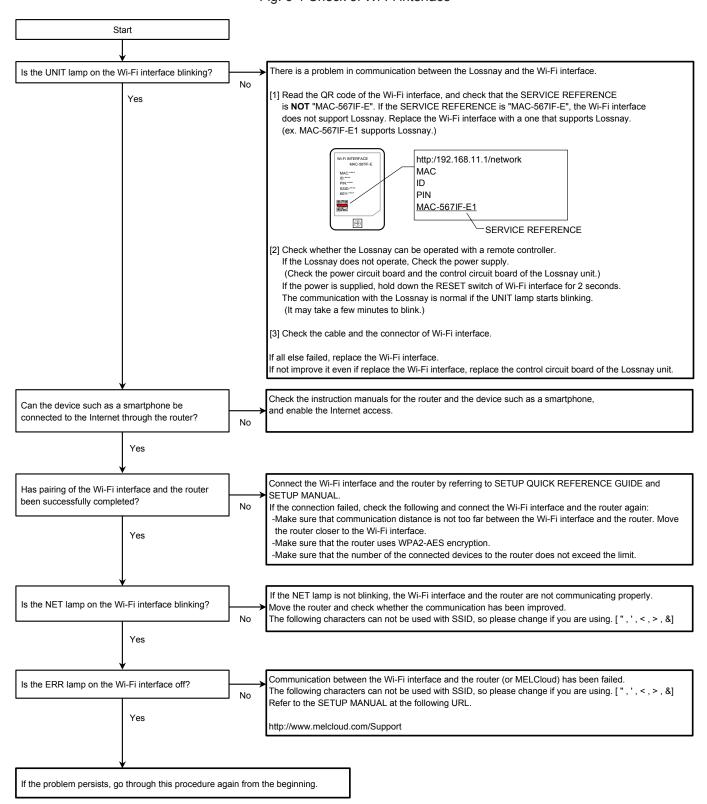
No.	Problem	Factor	Corrective action
1	The fan does not operate even though the trial	The connectors between the fan motor and circuit board is disconnected.	Check the connector (CN9) for the exhaust fan motor and the connector (CN10) for the supply fan motor.
	operation switch (SW2-1) on the cir-	The connector between the control circuit board and power circuit	Check the connector connections (CN18-CN118 and CN19-CN119).
	cuit board is turned ON.	board is disconnected.	Check the connector connection (CN21-CN121). (For LGH-150RVX-E ①/-ER and LGH-200RVX-E ①/-ER only)
		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 49).)
		The temperature around the product is high.	Use the product at a temperature of 40°C or lower.
		Fan motor failure	Check the resistance between the motor leads. (See chapter 7. (6) Motor resistance table (page 38).)
			If the measured value is significantly different from the values specified in the table, replace the fan motor.
		Circuit board failure	Disconnect the connectors (CN9 and CN10), and check the output voltage of each pin of the connectors within one minute after turning the switch (SW2-1) ON. (One minute later, the error will occur.) (See chapter 6. (2) Power circuit board (page 12).) If the voltage value is abnormal, replace the
			circuit board. If the problem persists, replace the fan motor.
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-61DR-E is used, it displays the icon """ that indicates the protective operation is inprogress. For details, see the Lossnay technical manual or remote controller manual.
	stops by itself.	The Lossnay unit is set to the delay operation.	When PZ-61DR-E is used, it displays the icon "%" that indicates the delay operation is inprogress. LED1 (green) on the control circuit board lights. Lossnay operates in 30 minutes (or 15 minutes) after the air conditioner is operated to run. Check the function selection switch (SW5-1) on the circuit board or the function setting (No. 9) of PZ-61DR-E. (See the Lossnay technical manual.)
		The interlocked air conditioner (Mr. Slim indoor unit or City Multi indoor unit) is defrosting.	The supply fan has been stopped to prevent cold air from blowing out. When the air conditioner finishes defrosting, the fan operation is started automatically.
		The system is switching the ventilation mode.	When switching the ventilation mode (Energy recovery mode/Bypass mode), the fan stops (for approx. 30 seconds).
		The temperature around the product is high.	When the ambient temperature of the product is high (higher than 40°C), the fan may stop to prevent the fan motor from overheating.

No.	Problem	Factor	Corrective action
3	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 selection switches (SW2-8 and 5-6) on the circuit board or the function settings (No. 57 and 58) of PZ-61DR-E. (See the Lossnay technical manual.)
4	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. The external fan speed input is	Check the function selection switches (SW2-4 and 2-5) on the circuit board or the function settings (No. 6 and 7) of PZ-61DR-E. (See the Lossnay technical manual.) When PZ-61DR-E is used, it displays the icon "%".
	change.	set. (CN17)	Check the fan speed switching input (CN17).
		The external fan speed input is set. (CN26)	When PZ-61DR-E is used, it displays the icon "%". Check the function selection switches (SW2-3 and 2-6) on the circuit board or the function setting (No. 63) of PZ-61DR-E. (See the Lossnay technical manual.)
		The system is operating in the protective mode (intermittent operation).	When PZ-61DR-E is used, it displays the icon ""\textit{""} that indicates the protective operation is in-progress. For details, see the Lossnay technical manual or remote controller manual.
		The pre-heater is ON.	When the pre-heater is ON, Lossnay runs at Fan speed 2 or higher speed. Even when Fan speed 1 is selected with the remote controller or external fan speed input, Lossnay runs at Fan speed 2.
5	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).
6	Air volume is abnormally large or small.	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 49).)
7	The damper does not operate even though the trial	The connector between the damper motor and circuit board is disconnected.	Check the connection of the connector (CN7) on the power circuit board.
	operation switch (SW2-1) on the cir-	Mechanical failure	Remove the rod of the damper board and check if the damper board can be moved by hand.
	cuit board is turned ON.	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 (CN7) from the power circuit board and check the voltage value between the pins of CN7 when the trial operation switch (SW2-1) is turned ON. (Voltage is output in about 30 seconds after switch ON.) If there is no voltage value, replace the circuit board. If the problem persists, replace the damper motor (GM assembly).

No.	Problem	Factor	Corrective action
8	Even though the	The outdoor temperature is 8°C	When the outdoor temperature is 8°C or lower,
	remote controller is	or lower.	the ventilation mode is fixed to the Energy re-
	operated to change		covery mode.
	the ventilation mode,	The signal is input to the Bypass	Check the Bypass mode switching input (CN26
	the ventilation mode is not changed.	mode switching input (CN26 ① ②).	1 2). (See the Lossnay technical manual.)
		The Lossnay unit is performing	When PZ-61DR-E is used, The ventilation mode
		the Night-purge operation.	cannot be changed during the Night-purge op-
			eration. (See the Lossnay technical manual.)
		The pre-heater is ON, or within	When the pre-heater is ON, or for one hour after
		one hour after the pre-heater is	the pre-heater is turned OFF, the ventilation
		turned OFF.	mode is fixed to the Energy recovery mode.
9	The ventilation	Temperature condition for Energy	Check the temperature map.
	mode cannot be switched when	not satisfied.	For details, see the Lossnay technical manual.
	Lossnay is operat-	It has not passed 30 minutes since	Switching of the ventilation mode is controlled in
	ing in the automatic	the ventilation mode is switched.	30 minutes cycle.
	mode.	The outdoor temperature is 8°C	When the outdoor temperature is 8°C or lower,
		or lower.	the ventilation mode is fixed to the Energy re-
			covery mode.
		The signal is input to the Bypass	Check the Bypass mode switching input (CN26
		mode switching input (CN26	12). (See the Lossnay technical manual.)
		12).	
		The operation mode of the inter-	If the operation mode of the interlocked air
		locked air conditioner (Mr. Slim in-	conditioner is fan operation or heating, the ven-
		door unit or City Multi indoor unit) is set to fan operation or heating.	tilation mode of Lossnay is fixed to the Energy recovery mode.
		The pre-heater is ON, or within	-
		one hour after the pre-heater is	When the pre-heater is ON, or for one hour after the pre-heater is turned OFF, the ventilation
		turned OFF.	mode is fixed to the Energy recovery mode.
10	Air volume is too	Is the air filter clogged?	Clean the air filter.
	small.	Pressure loss in the duct is too	Set the supply/exhaust fan power up setting.
		high.	(See the Lossnay technical manual.)
		The model selection switch (SW6)	Make the SW6 setting appropriate for the model.
		is not set correctly after the circuit	(See chapter 8. (8) Setting status record (page
		board is replaced.	49).)
		The indoor negative pressure	Check the function selection switches (SW2-
		setting or the indoor positive pres-	4 and 2-5) on the circuit board or the function
		sure setting is set.	settings (No. 6 and 7) of PZ-61DR-E. (See the
			Lossnay technical manual.)
		Power supply voltage is low.	Check the power supply voltage.
			In this case, even if the Lossnay remote con-
		the outdoor air intake port of the Lossnay unit is connected with the	troller is operated to start Lossnay while the air conditioner is stopped, Lossnay will not supply
		air conditioner by using a duct.	air.
		Are the Filterboxes used?	To use the Filterboxes, set the function of Fan
		THE THE PROPERTY.	power up individually for RA (return air) and OA
			(outdoor air intake) sides.
			Check the function selection switches (SW7-4
			and 7-5) on the circuit board of the Lossnay unit
			or the function settings (No. 64 and 65) of
		Are the filters in the Filterboxes	PZ-61DR-E.
		clogged?	Clean or replace the filters in the Filterboxes.
L		Joogged:	

No.	Problem	Factor	Corrective action
11	Actual fan speed of the Lossnay unit	The signal is input to the fan speed input (CN17).	Check the fan speed input (CN17). (See the Lossnay technical manual.)
	differs from the fan speed set with the	The signal is input to the fan speed switching input (CN26 4 5).	Check the fan speed switching input (CN26 4 5). (See the Lossnay technical manual.)
	remote controller.	Function setting (No. 8) of PZ-61DR-E "Max. fan speed setting during the first 30 minutes" is enabled.	Lossnay operates at fan speed 4 for 30 minutes when operation starts. (See the Lossnay technical manual.)
		The indoor negative pressure setting or the indoor positive pressure setting is set.	Check the function selection switches (SW2-4 and 2-5) on the circuit board or the function settings (No. 6 and 7) of PZ-61DR-E. (See the Lossnay technical manual.)
12	The Night-purge operation cannot be stopped with PZ-61DR-E.	Usual start/stop button operation cannot stop the Night-purge operation.	Press the start/stop button once to display the operation screen, and then press the start/stop button again.
13	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 technical manual.
	page specimen	The Night-purge schedule is not set.	Check the setting of PZ-61DR-E or the system controller that supports Night-purge operation. For details, see the Lossnay technical manual.
14	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 technical manual.
		The Lossnay remote controller or the system controller was oper- ated 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-61DR-E 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 technical manual.)
15	The Lossnay unit does not operate with the MELCloud application. (When the Wi-Fi interface is used)	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 5 cm away from the power supply cable or the other communication cables.
		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 of Wi-Fi interface.
16	The Wi-Fi interface cannot be connected with the circuit board.	The circuit board of the old model is used.	The Wi-Fi interface can be connected with the new circuit board (LG-X07DC-E). Replace the circuit board.

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



If the Lossnay unit to which the Dx-coil unit is connected fails to operate properly*For symptoms other than the following, see the Dx-coil unit service handbook.

No.	Symptom	Cause	Corrective action
1	The Lossnay unit does	The function selection switch (SW7-1:	Check the function selection switch
	not operate even when	Setting whether or not the Dx-coil unit	(SW7-1) on the control circuit board of
	trying to operate it by	is connected) on the control circuit	the Lossnay unit, or the function setting
	Dx-coil unit remote controller (PZ-01RC).	board is set to OFF.	(No. 71) of Lossnay remote controller (PZ-61DR-E).
		The power of the Lossnay unit is not ON.	Check the power of the Lossnay unit.
		Communication error between PCB A and PCB B of the Dx-coil unit	See the Dx-coil unit service handbook.
		Communication error between the Lossnay unit and Dx-coil unit	See the Dx-coil unit service handbook.
2	The Lossnay unit does not stop even when trying to stop it by Dx-coil unit remote controller (PZ-01RC).	The function selection switch (SW7-1: Setting whether or not the Dx-coil unit is connected) on the control circuit board is set to OFF.	Check the function selection switch (SW7-1) on the control circuit board of the Lossnay unit, or the function setting (No. 71) of Lossnay remote controller (PZ-61DR-E).
	,	Lossnay is performing the night-purge operation.	Check the screen display on Lossnay remote controller (PZ-61DR-E) or centralized controller (AE-200E).
		The pre-heater is connected to the Lossnay unit.	Lossnay stops three minutes later to cool the pre-heater.
		Communication error between PCB A and PCB B of the Dx-coil unit	See the Dx-coil unit service handbook.
		Communication error between the Lossnay unit and Dx-coil unit	See the Dx-coil unit service handbook.
		The trial operation switch (SW2-1) is set to ON.	Check the trial operation switch (SW2-1) on the control circuit board of the Lossnay unit.
3	Air supply fan of the	The outdoor unit is in defrosting operation.	See the Dx-coil unit service handbook.
	Lossnay unit stops oc- casionally.	The outdoor unit is operating in heating standby mode.	See the Dx-coil unit service handbook.
		The Lossnay unit is operating in the protective mode (intermittent operation).	It is normal.
4	Even when the external signal is input to change the fan speed to 1 or 2, the Lossnay unit operates at Fan speed 3.	The function selection switch (SW7-2 (and SW7-3): Selection of the operation mode from "Temp. priority mode" or "Fan speed priority mode" (or "Fan priority mode after temp. priority mode")) on the control circuit board of the Lossnay unit, or the function setting (No. 72) of Lossnay remote controller (PZ-61DR-E) is set to "Temp. priority mode" or "Fan priority mode after temp. priority mode."	When the Lossnay unit is in the "Temp. priority mode," and while the Dx-coil unit is operating in the cooling or heating mode, the Lossnay unit operates at Fan speed 3, regardless of the external fan speed input of Fan speed 1 or 2.
5	When the Indoor negative pressure setting of the Lossnay unit is enabled, if the external signal of Fan speed 1 or 2 is input, indoor negative pressure setting cannot be executed.	The function selection switch (SW7-2 (and SW7-3): Selection of the operation mode from "Temp. priority mode" or "Fan speed priority mode" (or "Fan priority mode after temp. priority mode")) on the control circuit board of the Lossnay unit, or the function setting (No. 72) of Lossnay remote controller (PZ-61DR-E) is set to "Temp. priority mode" or "Fan priority mode after temp. priority mode."	When the Indoor negative pressure setting is enabled, set to "Fan speed priority mode," by the function selection switch (SW7-2) on the control circuit board of the Lossnay unit, or function setting (No. 72) of Lossnay remote controller (PZ-61DR-E).

(2) Failure mode 2: The remote controller does not work. If the remote controller does not work after installation is completed, check the following items.

1)PZ-61DR-E

No.	Problem	Factor	Corrective action
1	Nothing is displayed on the remote con-	The power of the Lossnay unit is not ON.	Check the items described in (1) ①.
	troller. 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-61DR-E controllers are connected.	Only up to two PZ-61DR-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 200 m.	The wiring length of the remote controller shall be within 200 m.
		In one group, two or more Lossnay units are set as the main Lossnay (SW5-10 ON).	Only one Lossnay unit can be set as the main Lossnay in one group.
2	The remote control- ler continues to dis-	The remote controller is starting up.	The remote controller displays "Please Wait" during start-up for maximum four minutes.
	play "Please Wait". Error code "6831" is	Faulty connection of the remote controller transmission cable	Check the items described in (1) ②.
	displayed.	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-61DR-E and PZ-43SMF-E cannot be used together.
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.

②PZ-43SMF-E

No.	Problem	Factor	Corrective action
1	The power indicator " " " " " " " " " " " " "	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 200 m.	The wiring length of the remote controller shall be within 200 m.
			Only one Lossnay unit can be set as the main Lossnay in one group.
		Lossnay (SW5-10 ON).	(See the Lossnay technical manual.)
2	"H0" is displayed on	The remote controller is starting	The remote controller displays "H0" during start-
	the remote controller.	up.	up for a maximum of one minute.

No.	Problem	Factor	Corrective action
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-61DR-E is used together.	PZ-43SMF-E and PZ-61DR-E cannot be used together.

(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 after installation is completed, check the following items.

No.	Check item	Notes
1	Are the function selection switches (SW2, SW5, and SW7) 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-61DR-E 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-61DR-E is used, are icons and characters displayed on the PZ-61DR-E screen?	Based on the icon and characters, you can check statuses such as the timer operation, Night-purge, and protective operation. (See the Lossnay technical manual.)
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-61DR-E.
5	Is the external input used?	If the interlock mode is set to the "External input priority ON/OFF interlock" and if the external device is operating, the stop operation by PZ-61DR-E is prohibited. (See the Lossnay technical manual.) If the Remote/Local switching (CN32) is set to remote, the start/ stop operation by the Lossnay remote controller is prohibited. (See the Lossnay technical manual.) Priority is given to the operation by the fan speed switching input and Bypass mode switching input. (CN17, CN26) (See the Lossnay technical manual.)
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.
7	Is the Dx-coil unit connected?	When the Lossnay unit is operated with the Dx-coil unit remote controller (PZ-01RC), the Lossnay unit operates according to the latter signal.

• Individual check items

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

①PZ-61DR-E

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)	Connect the remote controller transmission cables correctly between the terminals (TM4 ① ②) of the Lossnay units in the group.
		of the Lossnay units in the group.	() of the cossilay units in the group.
		The system is operating in the protective mode (intermittent operation).	For details, see the Lossnay technical manual.
2	The screen display of the remote 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 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.
	the screen returns to the original screen right away.	When the system controller is used, the Lossnay unit, which is set as the main Lossnay (SW5-10 ON), is not set to the address with the smallest number in the group.	Set the Lossnay unit, which is set as the main Lossnay (SW5-10 ON) to the address with the smallest number. (See the Lossnay technical manual.)
3	The ventilation mode cannot be changed with the	The Lossnay unit is performing the Night-purge operation.	The ventilation mode cannot be changed during the Night-purge operation. (See the Lossnay technical manual.)
	remote controller.	The signal is input to the Bypass mode switching input (CN26 ①②).	Check the Bypass mode switching input (CN26 ①②). (See the Lossnay technical manual.)
4	Even though the function settings (No. 37 and/or 38) of PZ-61DR-E 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.
5	Even though the function settings (No. 36, 37 and/or 38) of PZ-61DR-E are set to "1", the outdoor temperature, indoor temperature and/or supply air temperature are not displayed.	The setting of PZ-61DR-E is not correct.	Select "Yes" at "Temp. display" menu of PZ-61DR-E. For details, see the installation manual of PZ-61DR-E.
6	The indoor, outdoor, and/or supply air temperature display of PZ-61DR-E blink.	The indoor, outdoor, and/or supply air temperature are outside the measurement range.	In the following cases, the temperature display blinks. Outdoor temperature: 0°C or lower, 38°C or higher Indoor and supply air temperature: 8°C or lower, 38°C or higher

②Interlocking 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 be	The power of the Lossnay unit is not ON.	Check the items described in (1) ①.
	performed with the remote controller.	Faulty connection of the remote controller transmission cable	Check the items described in (1) ②.
		Lossnay address setting is incorrect.	Check the Lossnay address.
2	Lossnay does not 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 technical manual.)
		The Lossnay unit is set to the delay operation.	When PZ-61DR-E 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 (SW5-1) on the circuit board or the function setting (No. 9) of PZ-61DR-E. (See the Lossnay technical manual.)
		The interlock mode of the Lossnay unit is set to "ON Interlock" or "OFF Interlock".	Check the interlock mode setting. (See the Lossnay technical manual.)
		main Lossnay.	For a group of multiple Lossnay units, set one Lossnay unit as the main Lossnay (SW5-10 ON) to input external control signal.
		In a group of multiple Lossnay units, external control signal is input to a Lossnay unit other than the main Lossnay.	(See the Lossnay technical manual.)
		The Lossnay unit is operating in the protective mode (intermittent operation).	For details, see the Lossnay technical manual.

③System controller

No.	Problem	Factor	Corrective action
1	The group of Lossnay cannot be	The power of the Lossnay unit is not ON.	Check the items described in (1) ①.
	set with the system controller.	M-NET transmission cable is connected to the remote controller terminal block (TM4 ①②).	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 (SA1 and SA2) 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 technical manual.)
		The wiring length of the M-NET transmission cable is longer than specified. (Longer than 200 m from the power supply unit, or longer than 500 m in total length)	Check the wiring length of the transmission cable. (See the Lossnay technical manual.)
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 technical manual.
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-61DR-E 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 Lossnay unit, which is set as the main Lossnay (SW5-10 ON), is not set to the address with the smallest number in the group.	Set the Lossnay unit, which is set as the main Lossnay (SW5-10 ON) to the address with the smallest number. (See the Lossnay technical manual.)

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

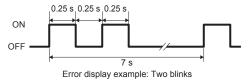
No.	Problem	Factor	Corrective action
1	The Lossnay unit does not operate with the MELCloud application.	The connection cable for the Wi-Fi interface is too close to the power supply cable or the other communication cables.	Wire the connection cable for the Wi-Fi interface at least 5 cm away from the 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 of Wi-Fi interface.

5When the Dx-coil unit is connected to the Lossnay unit

No.	Problem	Factor	Corrective action
1	The Lossnay unit does not operate	The power of the Lossnay unit is not ON.	Check the power of the Lossnay unit.
	even when trying to operate it with the Dx-coil unit remote controller (PZ-01RC).	The connection setting "Setting whether or not the Dx-coil unit is connected" on the Lossnay unit is set to OFF.	Set the connection setting to ON.
		The Dx-coil unit connection cable is connected to a wrong connector.	Check whether the cable is connected to the correct connector (CN20).
		Factors caused by other than the Lossnay unit	See the Dx-coil unit service handbook.

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

An error code displayed on the remote controller (PZ-61DR-E, 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
0206	3 blinks	_	Error on the Dx-coil unit	Error associated with the Dx-coil unit	See the Dx-coil unit service hand-book.
	12 blinks	_	Error on the model selec- tion of the Dx-coil unit	The model selection of the Dx-coil unit is set incorrectly. The combination of the Lossnay unit and the Dx-coil unit is wrong.	
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 technical manual.)
	3 blinks	_	Test run of the drain pump on the Dx-coil unit	The drain pump on the Dx-coil unit is under the test run.	See the Dx-coil unit service hand-book.
2600	3 blinks	_	Failure of the water sensor for the drain pan on the Dxcoil unit	See the Dx-coil unit service hand-book.	See the Dx-coil unit service hand-book.
2601	3 blinks	_	Disconnection of the water sensor connector on the Dx-coil unit	See the Dx-coil unit service hand-book.	See the Dx-coil unit service hand-book.

Error LED1 LED2 Code (green) (red) Symptom Cause Col	rroctive action
	rrective action
wrong terminal. terminals (TI (See the Los	pre-heater to the M3 $(7 \ @)$).
The output capacity of the pre-heater is too large with respect to the air volume of the Lossnay unit. 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 is too small with respect to the air volume of the Lossnay unit. Even though the pre-heater is in use, the function selection switch (SW5-6) on the circuit board is not set to ON, or the function setting (No. 58) of PZ- (No. 58) of FZ-	re-heater connections. tput capacity of the pre- the pre-heater is used, ay at a higher fan speed. tput capacity of the pre- the pre-heater is used, ay at a lower fan speed. etting of the function witch (SW5-6) on the I or the function setting PZ-61DR-E. essnay technical man-
Pre-heater failure Replace the	pre-heater.
Pre-heater relay failure Replace the	relay for the pre-heater.
	circuit board.
4101 11 — Overcurrent Shorting between remote controller Check the reblinks error of the relateralise.	emote controller wiring.
mote controller terminal In one group, two or more Lossnay units are set as the main Lossnay (SW5-10 ON). M-NET transmission cable is connected to the remote controller terminal block (TM4 ① ②). Only one Lo as the main (See the Los Connect the cable to the cable terminal block (TM4 ① ②).	ssnay unit can be set Lossnay in one group. snay technical manual.) M-NET transmission M-NET transmission al block (TB5 [A] [B]).
connected. be connected	emote controllers can ed. circuit board.
	remote controller.

	LED1 (green)		Symptom	Cause	Corrective action
4116	1 blink	<u>-</u>	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.
			(in the lower unit for LGH- 150RVX and LGH-200RVX	Faulty connection of the connectors (CN18 - CN118 and CN19 - CN119) between the control circuit board and power circuit board	Check the connector connections (CN18 - CN118 and CN19 - CN119).
			types) (Centrifugal fan does not work, insufficient	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 49).)
			motor speed, excessive	The temperature around the product is high.	Use the product at a temperature of 40°C or lower.
			motor speed, or rotation	The motor and centrifugal fan are not fixed securely.	Check the installation state of the motor and centrifugal fan, and fix them securely.
			detected when	Deformed centrifugal fan	Replace the centrifugal fan.
			operation is stopped)	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 circuit board.
	2 blinks	_	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.
			motor (in the lower unit for LGH- 150RVX and	Faulty connection of the connectors (CN18 - CN118 and CN19 - CN119) between the control circuit board and power circuit board	Check the connector connections (CN18 - CN118 and CN19 - CN119).
			LGH-200RVX types) (Centrifugal fan	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 49).)
			does not work, insufficient	The temperature around the product is high.	Use the product at a temperature of 40°C or lower.
			motor speed, excessive motor speed,	The motor and centrifugal fan are not fixed securely.	Check the installation state of the motor and centrifugal fan, and fix them securely.
			or rotation	Deformed centrifugal fan	Replace the centrifugal fan.
			detected when	Foreign objects around the centrifu-	Check the air course and around
			operation is stopped)	gal fan	the centrifugal fan, and remove any foreign matter.
				Fan motor failure	Replace the fan motor. (See page 19.)
				Circuit board failure	Replace the circuit board.

Error	LED1	I ED2			
1	(green)		Symptom	Cause	Corrective action
4116	6 blinks		(Only for LGH- 150RVX and LGH-200RVX types) Abnormal rotation of the supply fan	Faulty connection of the supply fan motor connector (CN10) on the power circuit board (upper) Faulty connection of the connectors (CN18 - CN118, CN19 - CN119, and CN21 - CN121) between the control circuit board and power circuit board	Check the connector (CN10) connection on the power circuit board (upper). Check the connectors connections (CN18 - CN118, CN19 - CN119, and CN21 - CN121).
			motor in the upper unit (Centrifugal fan does not work, insufficient motor speed,	Faulty connection of the reactor connectors (TB3 and TB4) on the power circuit board (upper) The model selection switch (SW6) is not set correctly.	Check the connector (TB3 and TB4) connections on the power circuit board (upper). Make the SW6 setting appropriate for the model. (See chapter 8. (8) Setting status record (page 49).)
			excessive motor speed,	The temperature around the product is high.	Use the product at a temperature of 40°C or lower.
			or rotation detected when operation is	The motor and centrifugal fan are not fixed securely.	Check the installation state of the motor and centrifugal fan, and fix them securely.
			stopped)	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 circuit board.
	7 blinks	_	(Only for LGH- 150RVX and LGH-200RVX	Faulty connection of the exhaust fan motor connector (CN9) on the power circuit board (upper)	Check the connector (CN9) connection on the power circuit board (upper).
			types) Abnormal rotation of the exhaust fan motor in the upper unit (Centrifugal fan does not work, insufficient motor speed,	Faulty connection of the connectors (CN18 - CN118, CN19 - CN119, and CN21 - CN121) between the control circuit board and power circuit board	Check the connectors connections (CN18 - CN118, CN19 - CN119, and CN21 - CN121).
		motor in upper un		Faulty connection of the reactor connectors (TB3 and TB4) on the power circuit board (upper)	Check the connector (TB3 and TB4) connections on the power circuit board (upper).
				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 49).)
			excessive motor speed,	The temperature around the product is high.	Use the product at a temperature of 40°C or lower.
			or rotation detected when operation is	The motor and centrifugal fan are not fixed securely.	Check the installation state of the motor and centrifugal fan, and fix them securely.
			stopped)	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 circuit board.

	LED1 (green)		Symptom	Cause	Corrective action
5101	4 blinks	_	Outdoor air (OA) thermis- tor related	Faulty connection of the thermistor connector (CN22) on the control circuit board	Check the connector (CN22) connection.
			error	Thermistor failure	Disconnect the connector (CN22), 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 38).)
5102	5 blinks	_	Indoor air (RA) thermistor related error	Faulty connection of the thermistor connector (CN5) on the control circuit board	Check the connector (CN5) connection.
				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 38).)
5109	3 blinks	_	Failure of the SA tempera- ture thermistor (TH9) on the Dx-coil unit	See the Dx-coil unit service hand-book.	See the Dx-coil unit service hand-book.
6600	_	6 blinks	Multiple ad- dress error	The system contains two or more units (*1) set with the same address in the same M-NET transmission cable line.	Find the units (*1) set with the same address, and set unique addresses to these units.
6602	_	2 blinks	Transmission error (transmission processor hardware er- ror)	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 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-61DR-E is connected to the terminals (TB5 [A] [B]).	Connect PZ-61DR-E to the terminals (TM4 ① ②). (See the Lossnay technical manual.)
				Malfunction of the unit (*1) where an error occurs	Check the unit (*1) where the error occurs.

^{*1} 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.

Error	LED1	LED2			
	(green)		Symptom	Cause	Corrective action
6603	_	5 blinks		Faulty connection of the M-NET transmission cable • Wiring was performed with power	Check the items described in (1) 2. Restart the system after complet-
			(transmission bus busy)	still supplied to the M-NET transmission cable. • Accidental communication error	ing wiring. If the error re-occurs, check for noise on the transmission cable. If the above does not correct the problem, replace the Lossnay 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-61DR-E is connected to the terminals (TB5 [A] [B]).	Connect PZ-61DR-E to the terminals (TM4 ①②). (See the Lossnay technical manual.)
				Malfunction of the unit (*1) where an error occurs	Check the unit (*1) where the error occurs.
6606	_	3 blinks	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 transmis- sion 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 circuit board.
				Malfunction of the unit (*1) where an error occurs	Check the unit (*1) 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. PZ-61DR-E is connected to the terminals (TB5 [A] [B]).	Check the Lossnay address. Connect PZ-61DR-E to the terminals (TM4 ① ②). (See the Lossnay technical manual.)
6608	_	8 blinks	8 Transmission/ reception error (no response error)	Multiple M-NET transmission cables are wired using multicore cables.	Using the applicable cable, wire the transmission cable away from one another.
				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. (Longer than 200 m from the power supply unit, longer than 500 m in total length)	Check the wiring length of the transmission cable.
				PZ-61DR-E is connected to the terminals (TB5 [A] [B]).	Connect PZ-61DR-E to the terminals (TM4 ①②). (See the Lossnay technical manual.)

^{*1} 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)		Symptom	Cause	Corrective action
6801	9 blinks	_	PZ-43SMF-E communication error	Multiple PZ-43SMF-E transmission cables are wired using multicore cables.	Using the applicable cable, wire the transmission cable away from one another.
				The power supply cable is too close to the PZ-43SMF-E transmission cable.	Wire the power supply cable at least 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 (200 m or more).	Check the wiring length of the transmission cable.
				The Lossnay is used in the same group as LGH-RX5-E type Lossnay.	The LGH-RVX-E ①/-ER type Lossnay cannot be used in the same group as LGH-RX5-E type Lossnay.
				PZ-43SMF-E is connected to the terminals (TB5 [A] [B]).	Connect PZ-43SMF-E to the terminals (TM4 ① ②). (See the Lossnay technical manual.)
6831	9 blinks	_	PZ-61DR-E communica- tion error (no reception)	Faulty connection of the PZ-61DR-E 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 circuit board or PZ-61DR-E remote controller.
				The Lossnay is used in the same group as LGH-RX5-E type Lossnay.	The LGH-RVX-E ①/-ER type Lossnay cannot be used in the same group as LGH-RX5-E type Lossnay.
				PZ-61DR-E is connected to the terminals (TB5 [A] [B]).	Connect PZ-61DR-E to the terminals (TM4 ①②). (See the Lossnay technical manual.)
6832	9 blinks		PZ-61DR-E communica- tion error (synchroniza- tion recovery error)	Faulty connection of the PZ-61DR-E 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 circuit board or PZ-61DR-E remote controller.
				The Lossnay is used in the same group as LGH-RX5-E type Lossnay.	The LGH-RVX-E ①/-ER type Lossnay cannot be used in the same group as LGH-RX5-E type Lossnay.
6833	9 blinks	_	PZ-61DR-E communica- tion error (hardware error)	Faulty connection of the PZ-61DR-E 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 circuit board or PZ-61DR-E remote controller.
				The Lossnay is used in the same group as LGH-RX5-E type Lossnay.	The LGH-RVX-E ①/-ER type Lossnay cannot be used in the same group as LGH-RX5-E type Lossnay.

1	LED1 (green)		Symptom	Cause	Corrective action
6834	9 blinks	_	PZ-61DR-E communica- tion error (start bit detection error)	Faulty connection of the PZ-61DR-E 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 circuit board or PZ-61DR-E remote controller.
				The Lossnay is used in the same group as LGH-RX5-E type Lossnay.	The LGH-RVX-E ①/-ER type Lossnay cannot be used in the same group as LGH-RX5-E type Lossnay.
7113	10 blinks	_	Function set- ting error	In one group, two or more Lossnay units are set as the main Lossnay (SW5-10 ON).	Only one Lossnay unit can be set as the main Lossnay in one group. (See the Lossnay technical manual.)
				The group contains two or more Lossnay units set with the same address.	Set unique addresses to these units.
				The Lossnay unit, which is set as the main Lossnay (SW5-10 ON), is not set to the address with the smallest number in the group.	Set the Lossnay unit, which is set as the main Lossnay (SW5-10 ON) to the address with the smallest number. (See the Lossnay technical manual.)
				The MA remote controller for the air conditioner (Mr. Slim indoor unit or City Multi indoor unit) is connected.	Replace the remote controller with PZ-61DR-E.
				The remote controller terminals (TM4 ① ②) of the Lossnay unit and the remote controller terminals of the City Multi indoor unit are connected together within the group.	Assign the Lossnay units and City Multi indoor units to the different groups.
				The Lossnay is used in the same group as LGH-RX ₅ -E type Lossnay.	The LGH-RVX-E 11/-ER type Lossnay cannot be used in the same group as LGH-RX5-E type Lossnay.
				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 49).)

(5) Temperatures and thermistor resistance table

Temperature	Resistance								
(°C)	value (kΩ)								
-30	53.9 to ∞	-7	18.0	8	9.5	23	5.4	38	3.1
:	:	-6	17.2	9	9.2	24	5.1	39	3.1
-20	32.8	-5	16.5	10	8.8	25	5.0	40	3.0
-19	31.2	-4	15.7	11	8.5	26	4.8	41	2.8
-18	29.8	-3	15.1	12	8.1	27	4.7	42	2.7
-17	28.4	-2	14.5	13	7.8	28	4.5	43	2.7
-16	27.1	-1	13.8	14	7.6	29	4.3	44	2.6
-15	25.8	0	13.3	15	7.3	30	4.2	45	2.5
-14	24.7	1	12.8	16	7.0	31	4.0	46	2.4
-13	23.6	2	12.2	17	6.7	32	3.9	47	2.3
-12	22.5	3	11.7	18	6.5	33	3.7	48	2.2
-11	21.5	4	11.2	19	6.3	34	3.6	49	2.2
-10	20.6	5	10.7	20	6.0	35	3.5	50	2.1
-9	19.7	6	10.3	21	5.8	36	3.4	:	:
-8	18.8	7	10.0	22	5.6	37	3.2	90	0 to 0.7

^{*} Measure the indoor air (RA) thermistor resistance across pin No. 1 and 2 of CN5, and the outdoor air (OA) thermistor resistance across pin No. 1 and 2 of CN22.

(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 board 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
- ②If 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-15RVX-E ①, LGH-25RVX-E ①, LGH-15RVX-ER, LGH-25RVX-ER					
Lead color	Black-Red	Black-White	Black-Yellow	Black-Brown	
Normal resistance	About 450 kΩ	About 40 kΩ	About 90 kΩ	∞ kΩ	

LGH-35RVX-E 1, LGH-50RVX-E 1, LGH-65RVX-E 1							
	LGH-35RVX-ER, LGH-50RVX-ER, LGH-65RVX-ER						
Lead color	Black-Red	Black-White	Black-Yellow	Black-Blue			
Normal resistance	Normal resistance About 815 kΩ About 40 kΩ About 105 kΩ ∞ kΩ						

LGH-80RVX-E ①, LGH-100RVX-E ①, LGH-150RVX-E ①, LGH-200RVX-E ①						
LGH-80F	LGH-80RVX-ER, LGH-100RVX-ER, LGH-150RVX-ER, LGH-200RVX-ER					
Lead color	Black-Red	Black-White	Black-Yellow	Black-Blue		
Normal resistance ∞ kΩ About 50 kΩ About 150 kΩ ∞ kΩ						

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, repair troubled sections according to the instructions described in the troubleshooting.
- When servicing, always keep proper footing.
- When servicing, always turn off the power supply isolator. Pay sufficient attention to avoid electrical shock or injury.
- Always connect the power wire properly.
- After completing repairs, check that the unit operates properly.
- · Always wear gloves when servicing.

(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

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

Control cover



Serial number

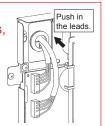
②Check that LED4 on the circuit board is OFF, and then disconnect the motor connectors (indicated by O) from the power circuit board.

Precaution

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.

Assembly precaution

After connecting the motor connectors, tuck the excess leads into the main unit.



No. 12 direct durit on an bound.

The control of th

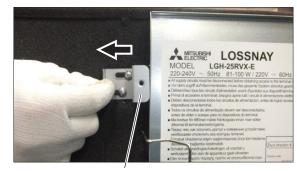
Power circuit board

③Unscrew the black screw (one special screw 4×8, indicated by ○) for the fix piece.



Fix piece

4 Slide the fix piece to the left side.



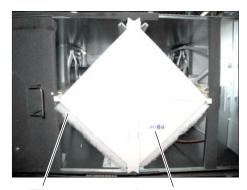
Fix piece

⑤ Pull out the hinge, and open the maint. (maintenance) cover.



Hinge Maint. cover

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



Filter Lossnay core

⑦Unscrew the screws (one special (spl) screw M4 for each core guide, indicated by ○), and remove the core guides (left (L) and right (R)).



Core guide L

® Take off the separators.

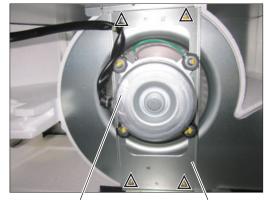


Separator

9Unscrew the screws (indicated by \triangle), and remove the motor fix plate.

For LGH-15RVX-E ①, LGH-25RVX-E ①, LGH-15RVX-ER, and LGH-25RVX-ER

(Four PTT screws 4×10, indicated by \triangle)

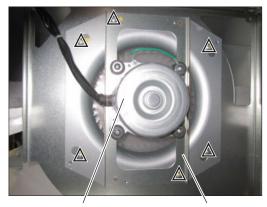


Motor

Motor fix plate

For LGH-35RVX-E ①, LGH-50RVX-E ①, LGH-35RVX-ER, and LGH-50RVX-ER

(Six PTT screws 5×10 , indicated by \triangle)

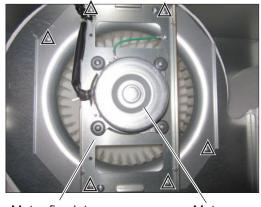


Motor

Motor fix plate

For LGH-65RVX-E 1 to LGH-200RVX-E 1, and LGH-65RVX-ER to LGH-200RVX-ER

(Six PTT screws 5×10, indicated by $\triangle)$



Motor fix plate

Motor

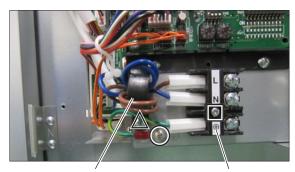
(3) Terminal block parts

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

Power circuit board



- ③Unscrew the screw (one PT screw 4×8 (BS), indicated by ○) and the lock washer (4).
- ④Unscrew the screws (one PT screw 4×8 indicated by △ and one PPT screw 4×20 indicated by □), and remove the lead assembly with the terminal block.



Lead assembly

Terminal block

(4) Control parts (For LGH-15RVX-E 11 to LGH-100RVX-E 11, and LGH-15RVX-ER to LGH-100RVX-ER)

Precaution

Before replacing the circuit boards, see (6) Procedures for replacing the circuit boards (on pages 46 to 48).

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



Control circuit board

③Unscrew the screws (two PT screws 4×8, indicated byO), and remove the control circuit board.



Control circuit board

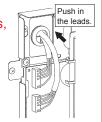
④ Disconnect the connectors (indicated by ○) from the power circuit board.

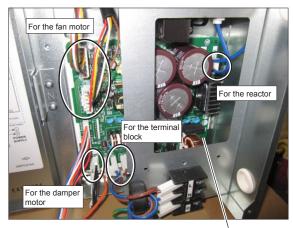
Precaution

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.

Assembly precaution

After connecting the motor connectors, tuck the excess leads into the main unit.





Power circuit board

⑤Unscrew the earth fixing screw (one PT screw 4×8 (BS), indicated by ○) and the lock washer (4).



⑥Unscrew the screw (one PT screw 4×8, indicated byO), and remove the power circuit board.



Power circuit board

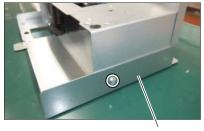
①Unscrew the screws (four PTT screws 4×8, indicated by O), and remove the control unit from the main unit.



Control unit



(8) Unscrew the screws (three PT screws 4×8, indicated by ()) to remove the control base.







Control base

Unscrew the screws (two PT screws 4×8, indicated by O), and remove the reactor.



Reactor

(5) Control parts (For LGH-150RVX-E 1, LGH-200RVX-E 1, LGH-150RVX-ER, and LGH-200RVX-ER)

Precaution

Before replacing the circuit boards, see (6) Procedures for replacing the circuit boards (on pages 46 to 48).

• When removing only the control circuit board

①Unscrew the black screws (three special screws 4×8, indicated by O) to remove the cover plate.

Cover plate



- ②Check that LED4 on the circuit board is OFF, and then disconnect the connectors (indicated by ○) from the control circuit board.
- ③Unscrew the screws (two PT screws 4×8, indicated by △), and remove the control circuit board.



Control circuit board

• When removing the power circuit boards or reactors

①Unscrew the screws (eight PT screws 4×8, indicated by O) to remove the control cover.





Reactor

②Remove the circuit boards and reactors.

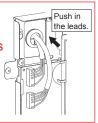
[Upper unit]

a. Disconnect the connectors (indicated by O).

Precaution

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

Assembly precaution
After connecting the motor
connectors, tuck the excess
leads into the main unit.



- b. Unscrew the screw (one PT screw 4×8 (BS), indicated by □) and the lock washer (4).
- c. Unscrew the screw (one PT screw 4×8, indicated by \triangle), and remove the power circuit board (upper).
- d. Unscrew the screws (two PT screws 4×8, indicated by ♦), and remove the reactor.

Power circuit board (upper) (LG-X07DC-E1)



Power circuit board (LG-X07DC-E·P)

Control circuit board (LG-X07DC-E·C)

[Lower unit]

- a. Remove the control circuit board. \rightarrow See (5) 2 and 3 (on page 44).
- b. Remove the power circuit board. \rightarrow See (4) 4 to 6 (on page 43).
- c. Remove the reactor. \rightarrow See (4) \bigcirc to \bigcirc (on pages 43 and 44).

* 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-61DR-E is connected, make sure to replace the circuit boards as described in the Steps.

	Details Check the system configuration. Check if PZ-61DR-E is connected to the circuit board to be replaced. The following describes settings required when replacing the circuit boards per the system configuration.	PZ-61DR-E connection	
	Check if PZ-61DR-E is connected to the circuit board to be replaced. The following describes settings required when replacing the circuit boards per the		
	The following describes settings required when replacing the circuit boards per the		
		-5550.011	
		System	
	-,	Configuration	
	Check which system configuration is applicable, and then replace the circuit boards.	garaneri	
	(A) Lossnay ① Setting of the function selection switches ② Setting of the PZ-61DR-E functions. ③ Address setting (when M-NET is used). → Go to Step 2.	on the circuit boar	d.
•	(B) M-NET transmission cable ① Setting of the function selection switches ② Address setting.	on the circuit boar	d.
	Go to Step 3. City Multi indoor unit Air conditioner remote controller		
2	Check the settings on PZ-61DR-E.		
1	Regarding the settings on PZ-61DR-E, prepare the data recorded at the time of installation (setting status record, etc.).	Setting status record	
	In the case there is no data recorded at the time of installation, and if the Lossnay unit can be operated with PZ-61DR-E, use the form in "(8) Setting status record" (page 49) to record the settings on PZ-61DR-E. To check the settings on PZ-61DR-E, see the Lossnay technical manual or remote controller manual. On the function setting screen of PZ-61DR-E, 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 (SA1 and SA2) on the Lossnay circuit board.		
3	Setting status record of the address setting switches and function selection switches	on the circuit bo	oard
	Using the form in "(8) Setting status record" (page 49), 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. ①Address setting (SA1 and SA2) ②Function selection switches and model selection switch setting (SW2, SW5, SW7, and SW6) ③External input (as necessary, record the connection status)	Setting status record	

р	De		Check item			
	Removing the circuit boards					
	 For the working precautions, see page 39. For removing the circuit boards, see (4) Control parts (For LGH-15RVX-E 1 to LGH-100RVX-E 1, and LGH-15RVX-ER to LGH-100RVX-ER) (page 42) or (5) Control parts (For LGH-150RVX-E 1, LGH-200RVX-E 1, LGH-150RVX-ER, and LGH-200RVX-ER) (page 44). 					
	Attaching the circuit boards					
	According to the function status recorsetting switches, function selection swinew circuit board. a. Address setting (SA1 and SA2) b. Function selection switches and me SW7, and SW6)	vitches, and model selection s	switch of the	Address setting Function setting Model selection		
	②Attach the power circuit board in the r Make sure to connect the connectors	•	removing.	Circuit board fixing screw		
	Connector	Symbol on the circuit board	Check	(1 pc.) Base fixing		
	For power supply connection For reactor connection	TAB1, TAB2, TAB5* TAB3, TAB4		screw (1 pc.)		
	For exhaust fan motor connection	CN9		Earth fixing		
	For supply fan motor connection	CN10		screw (1 pc.)		
	For damper motor connection	CN7				
	For control circuit board connection					
-	* Only the LGH-150RVX and LGH-20 TAB5 and CN121. 3 Reattach the base of the control circu	Connector				
	remote controller transmission cable, signal cable, etc. Make sure to connect the connectors (Connect PZ-61DR-E transmission caminal, and connector/terminal for extension caminal).	connection PZ-61DR-E transmission cable con- nection				
	Connector and terminal	Symbol on the circuit board	Check	M-NET trans-		
	For thermistor connection (outdoor temperature (OA))	CN22		mission cable connection		
	For thermistor connection (indoor temperature (RA))	CN5		External signal cable		
	For power circuit board connection	CN18, CN19, CN21*		connection		
	PZ-61DR-E transmission cable terminal	TM4 ①②				
	M-NET transmission cable terminal	TB5 [A] [B]				
	For external signal cable connection	TM2, TM3, CN17, CN20, CN26, CN32, CN105				
	* Only the LGH-150RVX and LGH-20 CN21. ④ Reattach the control box cover.	0RVX type Lossnay are equiր	oped with	Cover screw		
	LGH-15RVX to LGH-100RVX type :LGH-150RVX and LGH-200RVX typ			(black)		

Step	Details	Check item
6	Function setting with PZ-61DR-E	
	When PZ-61DR-E is connected, according to the function status record data prepared in Step 2, set the function settings with PZ-61DR-E. If PZ-61DR-E is not connected, skip this step and proceed to Step 7. To perform function settings with PZ-61DR-E, see the Lossnay technical manual or remote controller manual.	Address set- ting Function set- ting
	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 "00"="" address="" is="" switch="" the=""></when></when>	
	Always select "All".	
	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-61DR-E, reset the function settings according to "(7) Initialization" (page 48). 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-61DR-E, the settings with PZ-61DR-E will be reset. In this case, set the functions again with PZ-61DR-E.	
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.	Trial opera- tion
	In trial operation, make sure that the Lossnay unit with replaced circuit boards operates properly, and finish replacement work.	

(7) Initialization

Set to initialize the remote controller PZ-61DR-E function setting. All function settings which are changed by users are cancelled.

DIP-SW		PZ-61DR-E		Setting	Initialization	
SW No.	Setting	check	Function No.	Setting Data	check	Initialization
NI/A	_	-	400	0		N/A
N/A	-	-	100	1		Available

(8) Setting status record

1) Basic information

П	9	ŧ	Δ	
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Installation location:

Model name: LGH- (15 · 25 · 35 · 50 · 65 · 80 · 100 · 150 · 200) RVX- (E ☐ · ER)

Serial number on the nameplate (eight-digit):

Address setting:

Lot number marked on the circuit board:

Microcomputer software version marked on the circuit board:

Lossnay remote controller: (Used · Not used) Model name:

Interlocking with City Multi: (Set . Not set) Model name: M-NET address:

Interlocking with Mr. Slim: (Set . Not set) Model name:

System controller: (Used · Not used) Model name:

Dx-coil unit: (Used · Not used) Model name:

Model name:

The number of Lossnay units in a group:

Wi-Fi interface: (Used · Not used)

Address number (The smallest number in the group):

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		
6		
7		
8		
9		
10		

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

SW7	ON	OFF
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

: Factory setting

SW6	ON	OFF
1		
2		
3		
4		

Note: SW6 setting differs according to the model.

Model	SW6-1	SW6-2	SW6-3	SW6-4
LGH-15RVX-E 1, LGH-15RVX-ER	ON	OFF	OFF	OFF
LGH-25RVX-E 11, LGH-25RVX-ER	OFF	ON	OFF	OFF
LGH-35RVX-E 11, LGH-35RVX-ER	ON	OFF	ON	ON
LGH-50RVX-E 11, LGH-50RVX-ER	OFF	ON	ON	ON
LGH-65RVX-E 11, LGH-65RVX-ER	ON	ON	ON	ON
LGH-80RVX-E 11, LGH-80RVX-ER	OFF	ON	ON	OFF
LGH-100RVX-E 1, LGH-100RVX-ER	ON	ON	ON	OFF
LGH-150RVX-E 1, LGH-150RVX-ER	OFF	OFF	OFF	ON
LGH-200RVX-E ①, LGH-250RVX-ER	ON	OFF	OFF	ON

③Function settings Enter the setting data of the functions set with PZ-61DR-E.

Function No.	Setting Data	Function No.	Setting Data
1	(0)	28	(0)
2	(0)	30	(0)
5	(0)	31	(5)
6	(0)	32	(2)
7	(0)	33	(0)
8	(0)	34	(0)
9	(0)	36	(0)
13	(0)	37	(0)
14	(0)	38	(0)
15	(0)	39	(7)

Setting Data
(0)
(7)
(7)
(0)
(0)
(6)
(1)
(0)
(0)
(0)

Function No.	Setting Data
58	(0)
59	(0)
60	(0)
61	(0)
62	(0)
63	(0)
64	(0)
65	(0)
71	(0)
72	(0)
100	(0)

(): Factory setting

④External input 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 ③	External control input			
CN32	Remote/local switching			
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			
CN20	Dx-coil unit communication			
CN26 ① ②	Bypass mode input			
CN26 4 5	Fan speed switching input (0 to 10 V DC)			
CN105	IT communication			
TM3 7 10	Bypass monitor or Pre-heater output			
TM3 ® 10	Malfunction monitor output			
TM3 9 10	Operation monitor output			

9. Parts catalog

Please note the following when using the parts catalog.

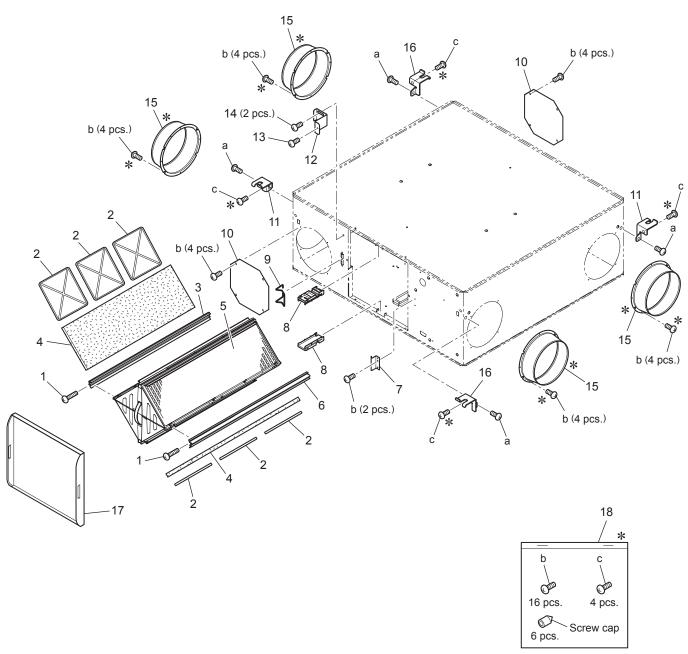
- 1. When ordering parts, always indicate the part number, part name, and the number of parts required.
- 2. It may take time for you to receive the parts. Make an inquiry about a rush order.
- 3. Specifications may be subject to change without notice.
- 4. Parts marked with ⚠ and are critical for safety.
- 5. To maintain safety and performance, always replace the parts with the parts prescribed.
- 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	
-		

LGH-15RVX-E 1, LGH-15RVX-ER



<Standard screws>

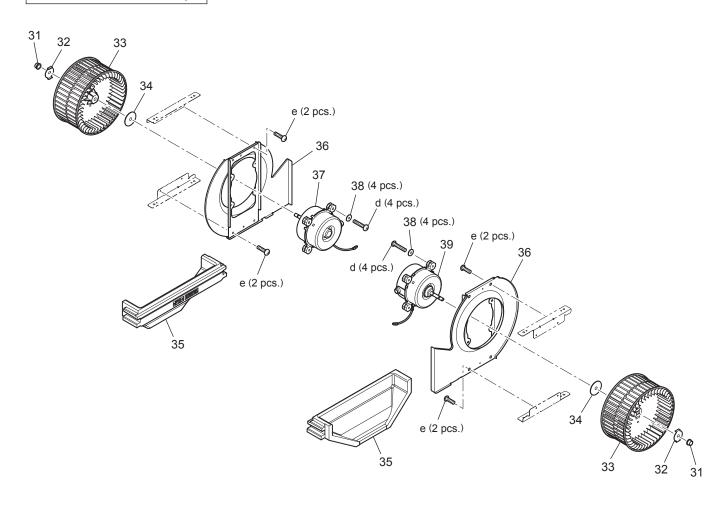
0 10 0.0 0. 0 0 0				
Symbol	Screw name			
а	PT screw 6x12			
b	PTT screw 4x8			
С	PT screw 5x10			

* shows accessory parts.

LGH-15RVX-E1,LGH-15RVX-ER

No.	Name of part	Parts No.	Q'ty pcs/unit		Critical for	Remarks
140.	Name of part	r uno rvo.	LGH-15 RVX-E1	LGH-15 RVX-ER	safety	remane
1	Special screw M4	W00 000 101	2	2		
2	Filter stopper	W50 013 713	6	6		
3	Core guide L	W50 013 381	1	1		
4	Filter	W50 013 725	2	2	⚠	
5	Lossnay core	W50 013 714	1	1	⚠	With the filter stoppers
6	Core guide R	W50 013 386	1	1		
7	Fix piece	W50 013 722	1	1		
8	Lead support	W50 013 705	2	2		
9	Hinge	W50 004 344	1	1		
10	Cover	W50 013 704	2	2		
11	Hanger L	W36 002 380	2	2		
12	Fix piece	W50 004 731	1	1		
13	Special screw 4x8	W00 000 089	4	4		
14	Special screw 4x8	W00 000 098	2	2		
15	Flange	W50 013 609	4	4		
16	Hanger R	W50 004 380	2	2		
17	Maintenance cover	W50 013 708	1	1		Cushion set
18	Screws in bag	W50 013 051	1			
18	Screws in bag	W50 013 049		1		

Air exhaust fan assembly



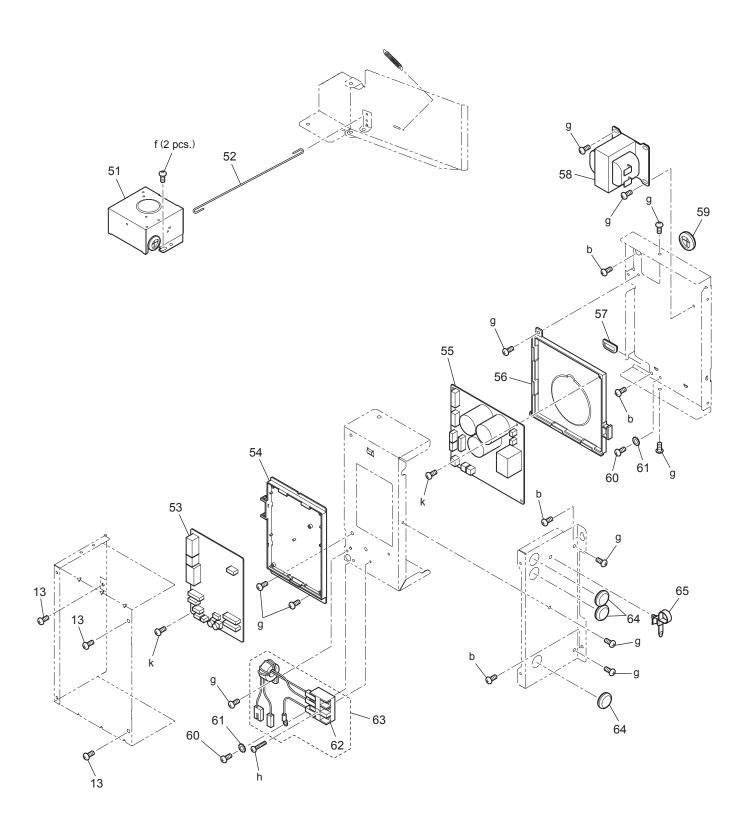
Air supply fan assembly

<Standard screws>

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

LGH-15RVX-E1,LGH-15RVX-ER

No.	Name of part	Parts No.	Q'ty pcs/unit		Critical for	Remarks
110.	rame of part	r dito ivo.	LGH-15 RVX-E1	LGH-15 RVX-ER	safety	
31	Special nut (M8)	W00 000 121	2	2		Left-handed
32	Tab washer	W00 000 134	2	2		
33	Centrifugal fan	W50 013 480	2	2	⚠	φ 180
34	Special washer	W50 003 477	2	2		
35	Separator	W50 003 486	2	2		
36	Motor fix plate	W50 013 721	2	2		
37	DC motor	W50 013 454	1	1	\triangle	EA
38	Special washer (4)	W00 000 161	8	8		
39	DC motor	W50 013 453	1	1	\triangle	SA

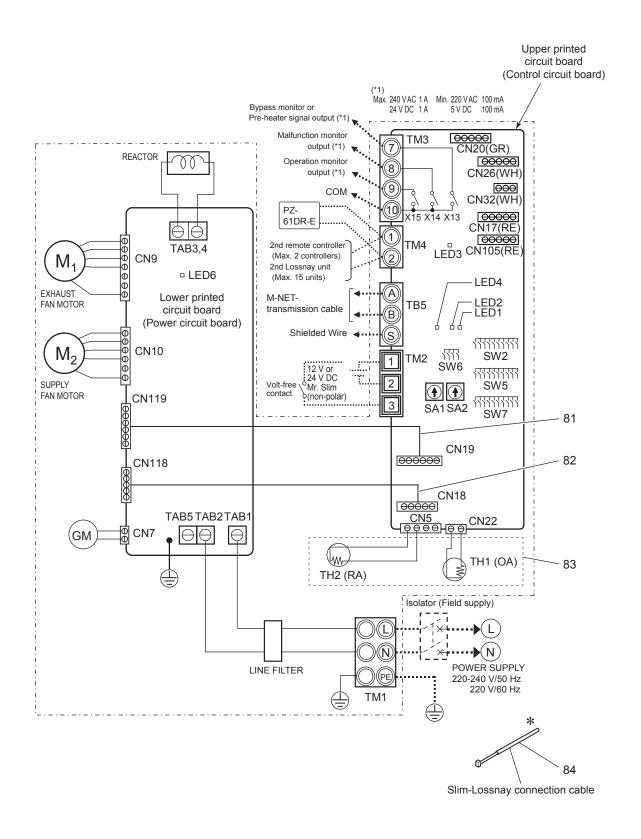


<Standard screws>

-Otaridard 3010W3					
Symbol	Screw name				
b	PTT screw 4x8				
f	PTT screw 4x6				
g	PT screw 4x8				
h	PPT screw 4x20				
k	PPT screw 3x8				

LGH-15RVX-E1,LGH-15RVX-ER

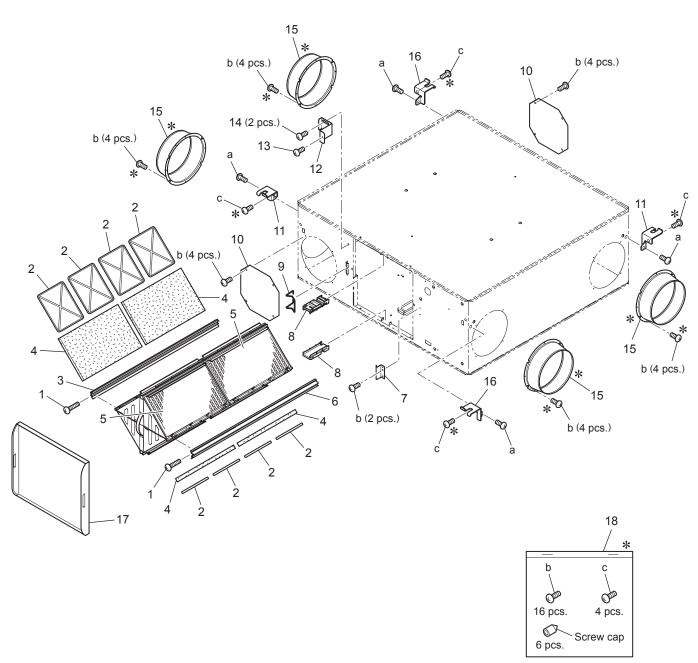
No	No. Name of part	Parts No.	Q'ty pcs/unit		Critical for	Remarks
110.			LGH-15 RVX-E1	LGH-15 RVX-ER	safety	rtemarke
51	GM assembly	W50 013 260	1	1	⚠	AC220·240V
52	Rod	W50 013 152	1	1		
53	Circuit board	W50 004 174	1	1	⚠	LG-X07DC-E·C
54	PCB fix plate	W50 004 381	1	1		
55	Circuit board	W50 004 173	1	1	⚠	LG-X07DC-E·P
56	PCB case	W50 004 383	1	1		
57	Bush	W00 000 278	1	1		
58	Reactor	W50 004 179	1	1	⚠	White · AC10A
59	Bush	W00 000 277	1	1		
60	PT screw 4x8 BS	W00 000 011	2	2		
61	Lock washer (4)	W00 000 082	2	2		
62	Terminal block	W45 602 242	1	1	⚠	3P
63	Terminal block	W36 002 213	1	1	⚠	With the lead wires
64	Cord bush	W00 000 270	3	3		
65	Cord band	W00 000 258	1	1		



LGH-15RVX-E1,LGH-15RVX-ER

No	No. Name of part	Parts No.	Q'ty pcs/unit		Critical for	Remarks	
110.			LGH-15 RVX-E1	LGH-15 RVX-ER	safety	remane	
81	Lead wire	W36 002 214	1	1	⚠	CN19-CN119	
82	Lead wire	W36 002 215	1	1	⚠	CN18-CN118	
83	Thermistor	W50 013 167	1	1	⚠	OA·RA set	
84	Lead wire	W50 004 231	1	1	⚠	100mm	

LGH-25RVX-E 1, LGH-25RVX-ER



<Standard screws>

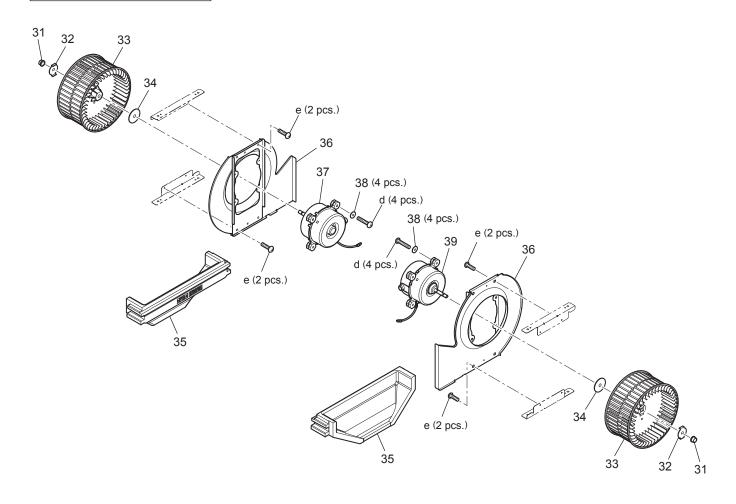
010						
Symbol	Screw name					
а	PT screw 6x12					
b	PTT screw 4x8					
С	PT screw 5x10					

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

LGH-25RVX-E1,LGH-25RVX-ER

No.	Name of part	Parts No.	Q'ty pcs/unit		Critical for	Remarks
	Name of part	r uno rvo.	LGH-25 RVX-E1	LGH-25 RVX-ER	safety	remane
1	Special screw M4	W00 000 101	2	2		
2	Filter stopper	W50 003 723	8	8		
3	Core guide L	W50 013 393	1	1		
4	Filter	W50 003 736	4	4	Æ	
5	Lossnay core	W50 013 715	2	2	⚠	With the filter stoppers
6	Core guide R	W50 013 387	1	1		
7	Fix piece	W50 013 722	1	1		
8	Lead support	W50 013 705	2	2		
9	Hinge	W50 004 344	1	1		
10	Cover	W50 003 705	2	2		
11	Hanger L	W36 002 380	2	2		
12	Fix piece	W50 004 731	1	1		
13	Special screw 4x8	W00 000 089	4	4		
14	Special screw 4x8	W00 000 098	2	2		
15	Flange	W50 003 609	4	4		
16	Hanger R	W50 004 380	2	2		
17	Maintenance cover	W50 013 708	1	1		cushion set
18	Screws in bag	W50 013 051	1			
18	Screws in bag	W50 013 049		1		

Air exhaust fan assembly



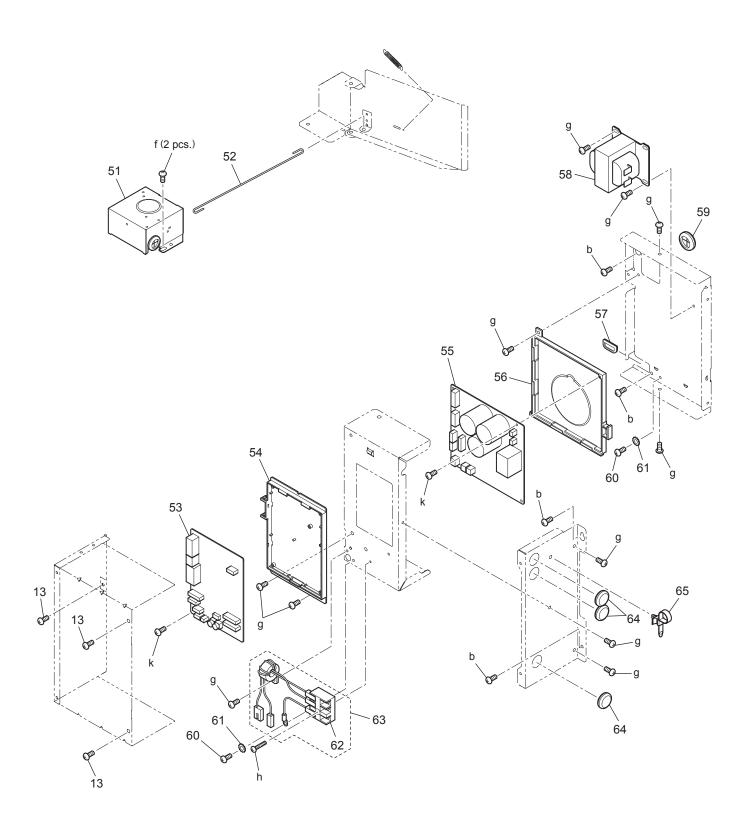
Air supply fan assembly

<Standard screws>

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

LGH-25RVX-E1,LGH-25RVX-ER

No.	Name of part	Parts No.	Q'ty pcs/unit		Critical for	Remarks
110.	rtaine of part	r dito 110.	LGH-25 RVX-E1	LGH-25 RVX-ER	safety	rtemante
31	Special nut (M8)	W00 000 121	2	2		Left-handed
32	Tab washer	W00 000 134	2	2		
33	Centrifugal fan	W50 013 480	2	2	⚠	φ 180
34	Special washer	W50 003 477	2	2		
35	Separator	W50 003 486	2	2		
36	Motor fix plate	W50 013 721	2	2		
37	DC motor	W50 013 454	1	1	A	EA
38	Special washer (4)	W00 000 161	8	8		
39	DC motor	W50 013 453	1	1	⚠	SA

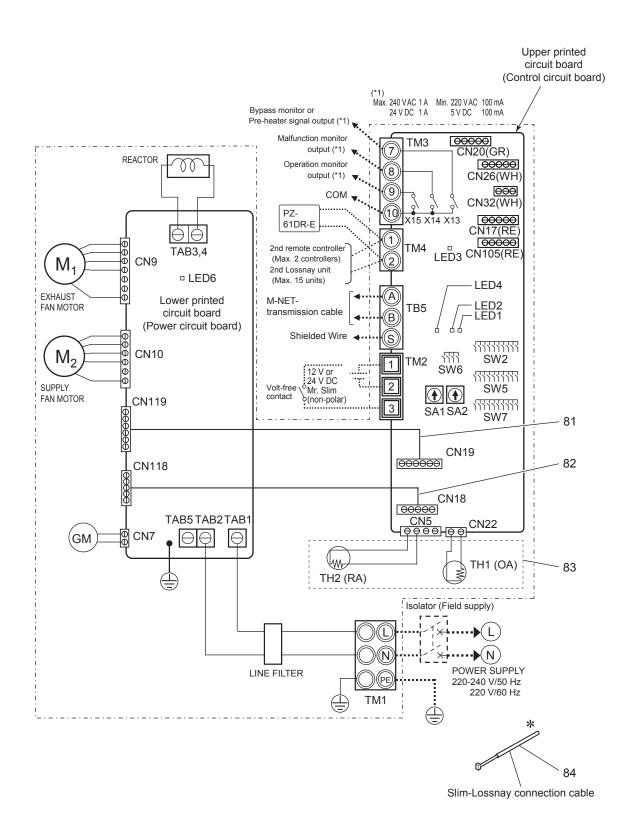


<Standard screws>

Symbol	Screw name
b	PTT screw 4x8
f	PTT screw 4x6
g	PT screw 4x8
h	PPT screw 4x20
k	PPT screw 3x8

LGH-25RVX-E1,LGH-25RVX-ER

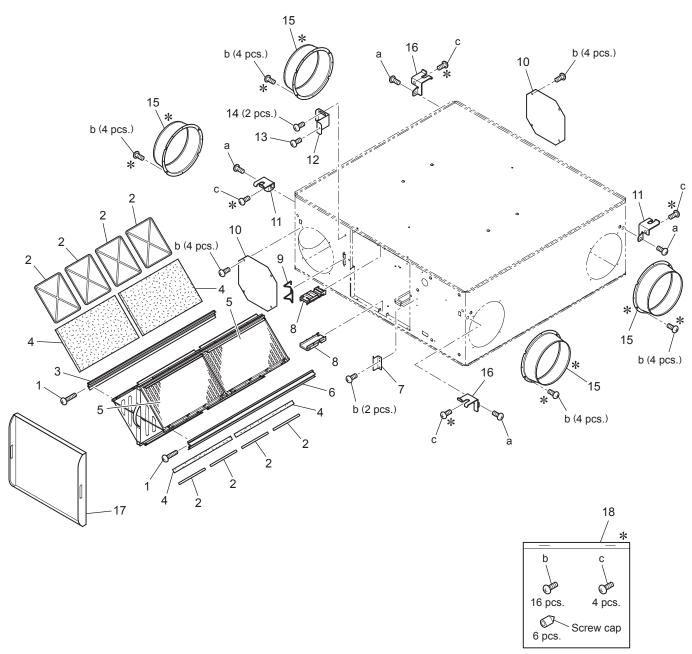
No.	No. Name of part	Parts No.	Q'ty pcs/unit		Critical for	Remarks
110.			LGH-25 RVX-E1	LGH-25 RVX-ER	safety	remarko
51	GM assembly	W50 013 260	1	1	<u> </u>	AC220 · 240V
52	Rod	W50 013 153	1	1		
53	Circuit board	W50 004 174	1	1	⚠	LG-X07DC-E·C
54	PCB fix plate	W50 004 381	1	1		
55	Circuit board	W50 004 173	1	1	⚠	LG-X07DC-E·P
56	PCB case	W50 004 383	1	1		
57	Bush	W00 000 278	1	1		
58	Reactor	W50 004 179	1	1	⚠	White · AC10A
59	Bush	W00 000 277	1	1		
60	PT screw 4x8 BS	W00 000 011	2	2		
61	Lock washer (4)	W00 000 082	2	2		
62	Terminal block	W45 602 242	1	1	⚠	3P
63	Terminal block	W36 002 213	1	1	⚠	With the lead wires
64	Cord bush	W00 000 270	3	3		
65	Cord band	W00 000 258	1	1		



LGH-25RVX-E1,LGH-25RVX-ER

No.	Name of part	Parts No.	Q'ty pcs/unit		Critical for	Remarks	
110.	rtamo or part	r and mo.	LGH-25 RVX-E1	LGH-25 RVX-ER	safety	Romanic	
81	Lead wire	W36 002 214	1	1	⚠	CN19-CN119	
82	Lead wire	W36 002 215	1	1	⚠	CN18-CN118	
83	Thermistor	W50 013 168	1	1	⚠	OA·RA set	
84	Lead wire	W50 004 231	1	1	⚠	100mm	

LGH-35RVX-E 1, LGH-35RVX-ER



<Standard screws>

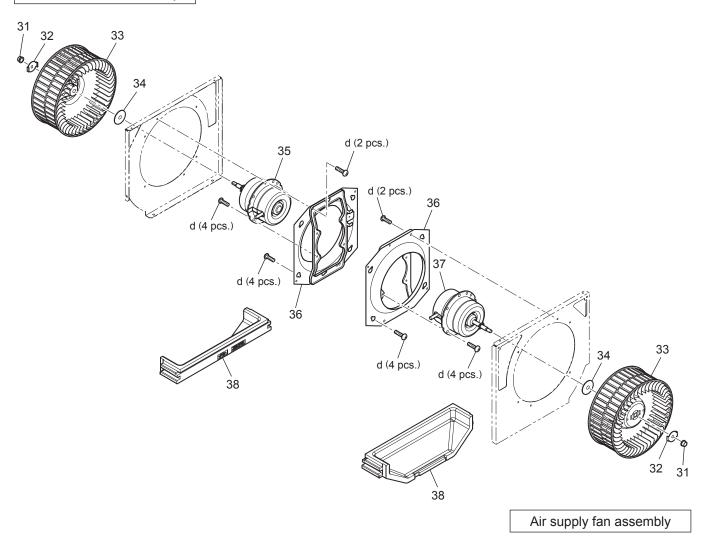
Otariaara oorowo				
Symbol	Screw name			
а	PT screw 6x12			
b	PTT screw 4x8			
С	PT screw 5x10			

* shows accessory parts.

LGH-35RVX-E1,LGH-35RVX-ER

	, , , , , , , , , , , , , , , , , , , ,	D. I. N.		'ty /unit	Critical	Remarks
No.	No. Name of part	Parts No.	LGH-35	LGH-35	for	
			RVX-E1	RVX-ER	safety	
1	Special screw M4	W00 000 101	2	2		
2	Filter stopper	W50 004 718	8	8		
3	Core guide L	W50 013 394	1	1		
4	Filter	W50 003 739	4	4	A	
5	Lossnay core	W50 013 716	2	2	⚠	With the filter stoppers
6	Core guide R	W50 013 388	1	1		
7	Fix piece	W50 013 722	1	1		
8	Lead support	W50 013 705	2	2		
9	Hinge	W50 004 344	1	1		
10	Cover	W50 003 705	2	2		
11	Hanger L	W36 002 380	2	2		
12	Fix piece	W50 004 731	1	1		
13	Special screw 4x8	W00 000 089	4	4		
14	Special screw 4x8	W00 000 098	2	2		
15	Flange	W50 003 609	4	4		
16	Hanger R	W50 004 380	2	2		
17	Maintenance cover	W50 013 709	1	1		Cushion set
18	Screws in bag	W50 013 051	1			
18	Screws in bag	W50 013 049		1		

Air exhaust fan assembly

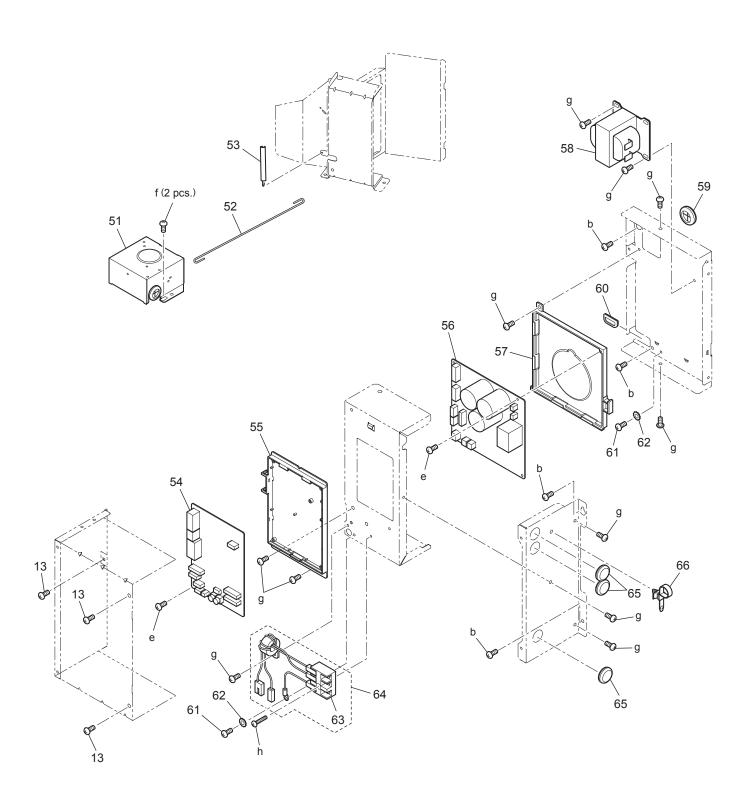


<Standard screws>

Symbol	Screw name
d	PTT screw 5x10

LGH-35RVX-E1,LGH-35RVX-ER

No.	Name of part	Parts No.	Q'ty pcs/unit		Critical for	Remarks
			LGH-35 RVX-E1	LGH-35 RVX-ER	safety	rtemante
31	Special nut (M8)	W00 000 121	2	2		Left-handed
32	Tab washer	W00 000 134	2	2		
33	Centrifugal fan	W50 013 481	2	2	A	φ 220
34	Special washer (10)	W50 003 478	2	2		
35	DC motor	W50 013 458	1	1	⚠	EA
36	Motor fix plate	W50 010 717	2	2		
37	DC motor	W50 013 457	1	1	⚠	SA
38	Separator	W50 013 486	2	2		

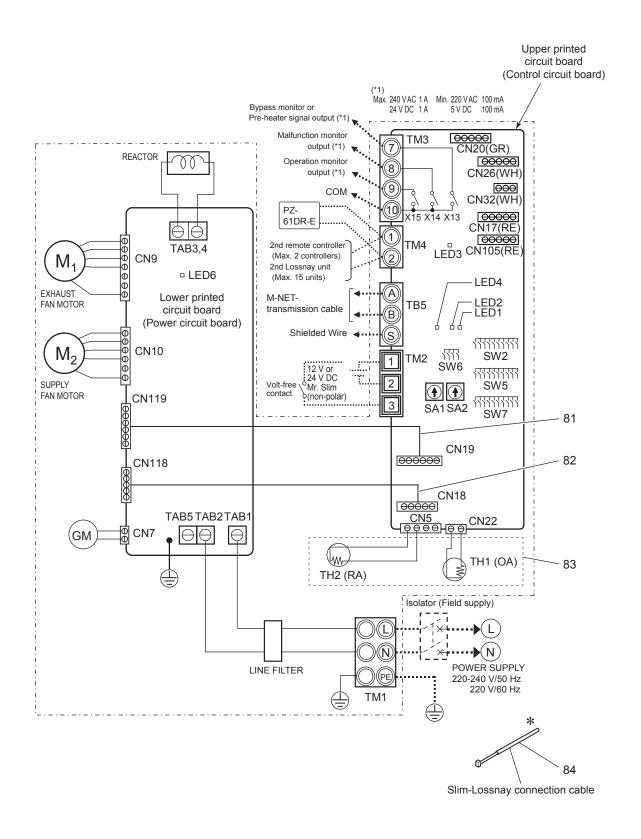


<Standard screws>

Otaliaala colono				
Symbol	Screw name			
b	PTT screw 4x8			
е	PPT screw 3x8			
f	PTT screw 4x6			
g	PT screw 4x8			
h	PPT screw 4x20			

LGH-35RVX-E1,LGH-35RVX-ER

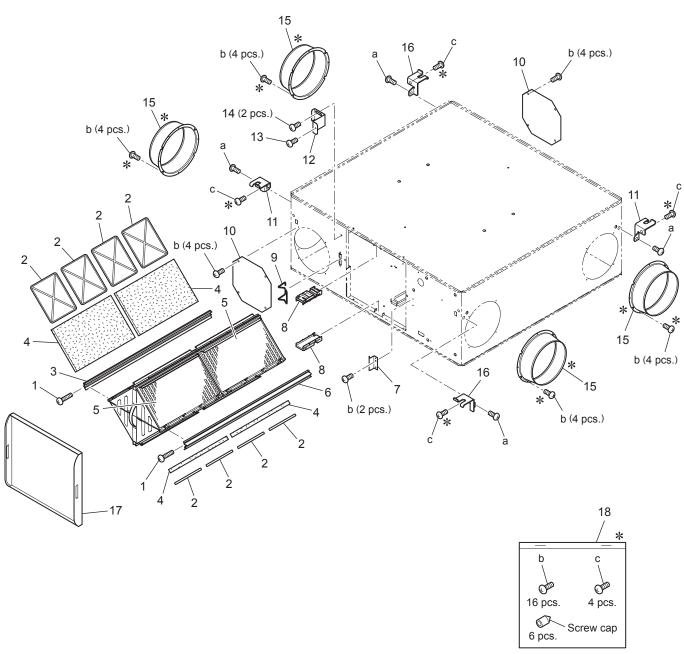
No.	No. Name of part	Parts No.	Q'ty pcs/unit		Critical for	Remarks
			LGH-35 RVX-E1	LGH-35 RVX-ER	safety	
51	GM assembly	W50 013 261	1	1	A	AC220 · 240V
52	Rod	W50 013 151	1	1		
53	Pull spring	W50 013 156	1	1		
54	Circuit board	W50 004 174	1	1	⚠	LG-X07DC-E·C
55	PCB fix plate	W50 004 381	1	1		
56	Circuit board	W50 004 173	1	1	⚠	LG-X07DC-E·P
57	PCB case	W50 004 383	1	1		
58	Reactor	W50 004 179	1	1	⚠	White · AC10A
59	Bush	W00 000 277	1	1		
60	Bush	W00 000 278	1	1		
61	PT screw 4x8 BS	W00 000 011	2	2		
62	Lock washer (4)	W00 000 082	2	2		
63	Terminal block	W45 602 242	1	1	⚠	3P
64	Terminal block	W36 002 213	1	1	⚠	With the lead wires
65	Cord bush	W00 000 270	3	3		
66	Cord band	W00 000 258	1	1		



LGH-35RVX-E1,LGH-35RVX-ER

No.	Name of part	Parts No.	Q'ty pcs/unit		Critical for	Remarks
	ramo or part	. Gite ite.	LGH-35 RVX-E1	LGH-35 RVX-ER	safety	r to mante
81	Lead wire	W36 002 214	1	1	⚠	CN19-CN119
82	Lead wire	W36 002 215	1	1	⚠	CN18-CN118
83	Thermistor	W50 013 169	1	1	⚠	OA·RA set
84	Lead wire	W50 004 231	1	1	⚠	100mm

LGH-50RVX-E 1, LGH-50RVX-ER



<Standard screws>

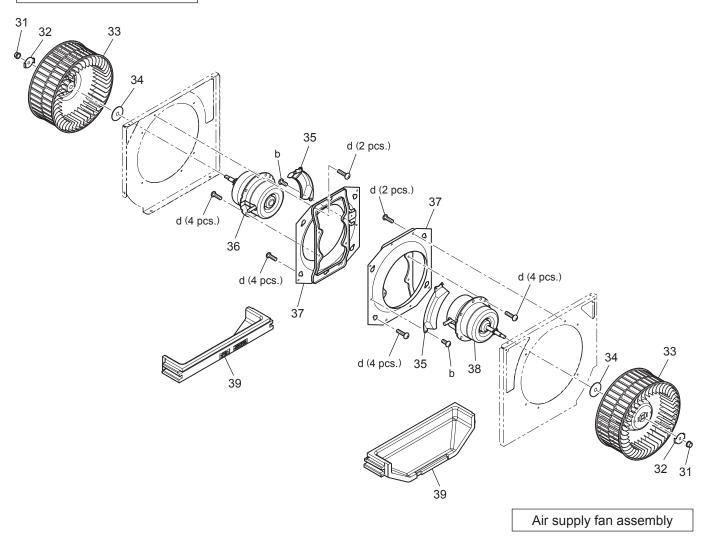
0 1011 10101 101 001 011 0				
Symbol	Screw name			
а	PT screw 6x12			
b	PTT screw 4x8			
С	PT screw 5x10			

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

LGH-50RVX-E1,LGH-50RVX-ER

	Name of part	Parts No.		Q'ty pcs/unit		Remarks
No.					for	
	•		LGH-50	LGH-50	safety	
			RVX-E1	RVX-ER	3031	
1	Special screw M4	W00 000 101	2	2		
2	Filter stopper	W50 004 718	8	8		
3	Core guide L	W50 013 382	1	1		
4	Filter	W50 004 723	4	4	⚠	
5	Lossnay core	W50 013 717	2	2	⚠	With the filter stoppers
6	Core guide R	W50 013 389	1	1		
7	Fix piece	W50 013 722	1	1		
8	Lead support	W50 013 705	2	2		
9	Hinge	W50 004 344	1	1		
10	Cover	W50 003 707	2	2		
11	Hanger L	W36 002 380	2	2		
12	Fix piece	W50 004 731	1	1		
13	Special screw 4x8	W00 000 089	4	4		
14	Special screw 4x8	W00 000 098	2	2		
15	Flange	W50 004 609	4	4		
16	Hanger R	W50 004 380	2	2		
17	Maintenance cover	W50 013 709	1	1		Cushion set
18	Screws in bag	W50 013 051	1			_
18	Screws in bag	W50013049		1		

Air exhaust fan assembly

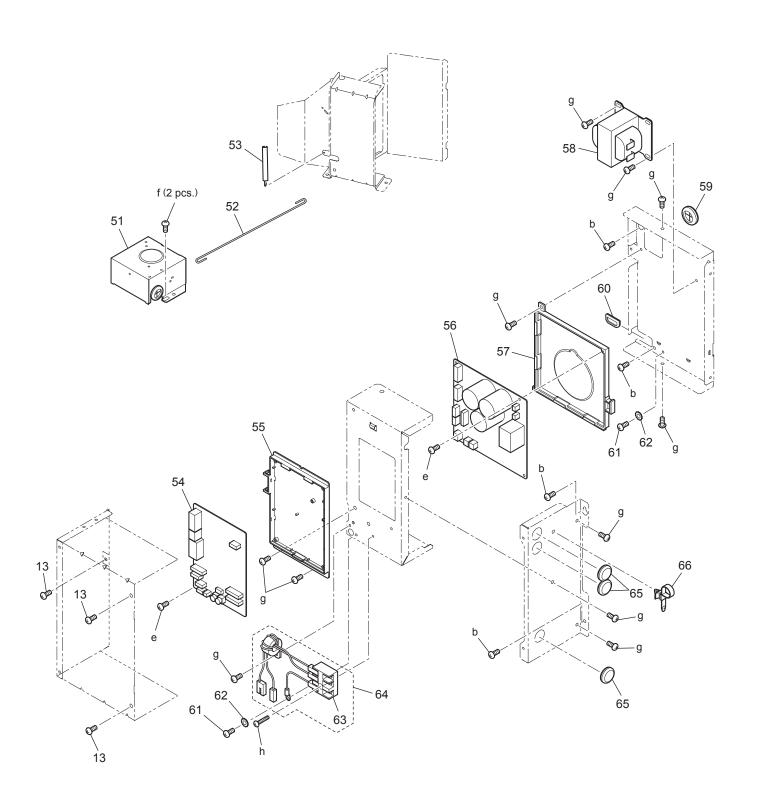


<Standard screws>

Symbol	Screw name
b	PTT screw 4x8
d	PTT screw 5x10

LGH-50RVX-E1,LGH-50RVX-ER

No	No. Name of part	Parts No.	Q'ty pcs/unit		Critical for	Remarks
110.			LGH-50 RVX-E1	LGH-50 RVX-ER	safety	rtemarke
31	Special nut (M8)	W00 000 121	2	2		Left-handed
32	Tab washer	W00 000 134	2	2		
33	Centrifugal fan	W50 013 481	2	2	\triangle	φ 220
34	Special washer (10)	W50 003 478	2	2		
35	Air guide	W50 013 508	2	2		
36	DC motor	W50 013 458	1	1	⚠	EA
37	Motor fix plate	W50 013 723	2	2		
38	DC motor	W50 013 457	1	1	⚠	SA
38	Separator	W50 013 486	2	2		

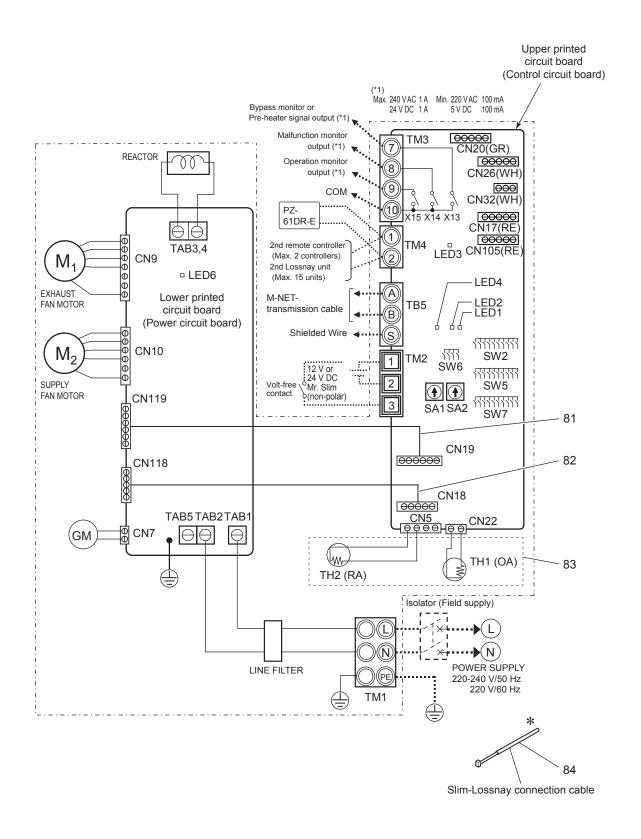


<Standard screws>

<u> Ctarraar</u>	Ctarradra Corotto				
Symbol	Screw name				
b	PTT screw 4x8				
е	PPT screw 3x8				
f	PTT screw 4x6				
g	PT screw 4x8				
h	PPT screw 4x20				

LGH-50RVX-E1,LGH-50RVX-ER

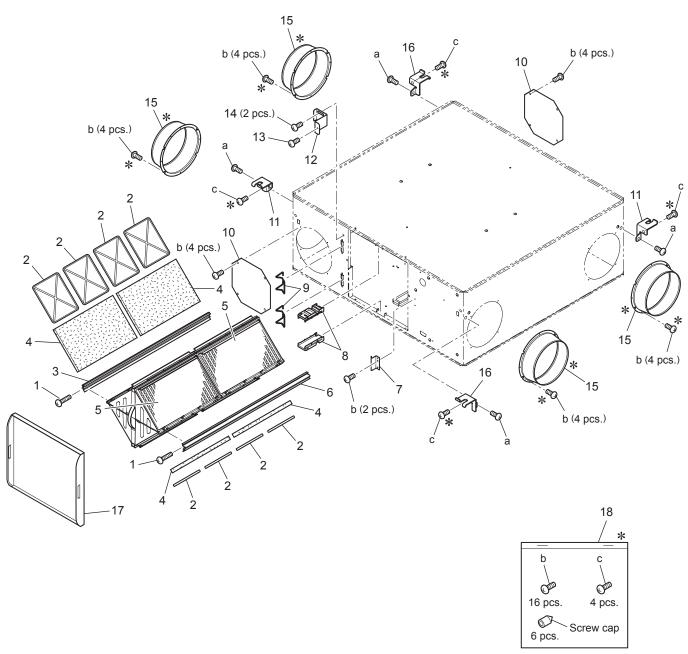
No.	Name of part	Parts No.	Q'ty pcs/unit		Critical for	Remarks
			LGH-50 RVX-E①	LGH-50 RVX-ER	safety	
51	GM assembly	W50 013 262	1	1	⚠	AC220·240V
52	Rod	W50 013 151	1	1		
53	Pull spring	W50 013 156	1	1		
54	Circuit board	W50 004 174	1	1	⚠	LG-X07DC-E·C
55	PCB fix plate	W50 004 381	1	1		
56	Circuit board	W50 004 173	1	1	⚠	LG-X07DC-E·P
57	PCB case	W50 004 383	1	1		
58	Reactor	W50 004 179	1	1	\triangle	White · AC10A
59	Bush	W00 000 277	1	1		
60	Bush	W00 000 278	1	1		
61	PT screw 4x8 BS	W00 000 011	2	2		
62	Lock washer (4)	W00 000 082	2	2		
63	Terminal block	W45 602 242	1	1	\triangle	3P
64	Terminal block	W36 002 213	1	1	\triangle	With the lead wires
65	Cord bush	W00 000 270	3	3		
66	Cord band	W00 000 258	1	1		



LGH-50RVX-E1,LGH-50RVX-ER

No.	Name of part	Parts No.	Q'ty pcs/unit		Critical for safety	Remarks
Traine of part	r arto rvo.	LGH-50 RVX-E1	LGH-50 RVX-ER			
81	Lead wire	W36 002 214	1	1	⚠	CN19-CN119
82	Lead wire	W36 002 215	1	1	⚠	CN18-CN118
83	Thermistor	W50 013 170	1	1	⚠	OA·RA set
84	Lead wire	W50 004 231	1	1	⚠	100mm

LGH-65RVX-E 1, LGH-65RVX-ER



<Standard screws>

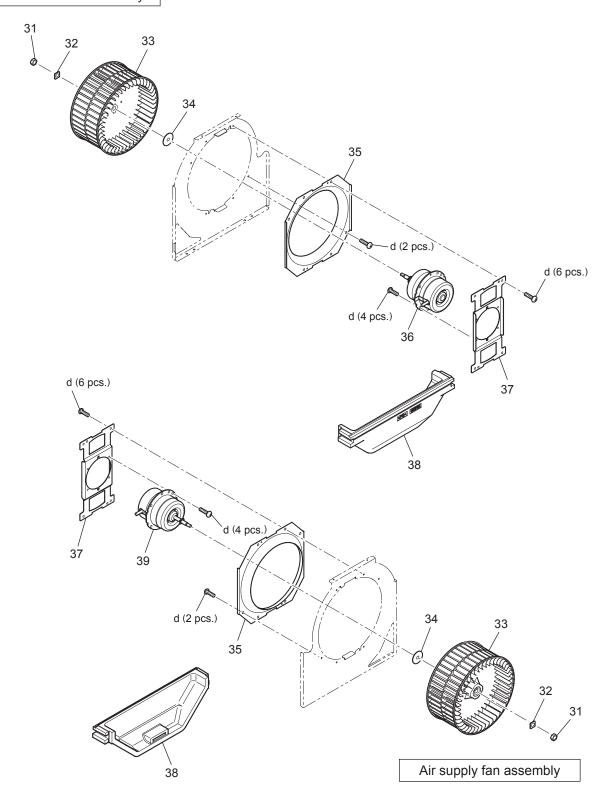
0 1011 10101 101 001 011 0				
Symbol	Screw name			
а	PT screw 6x12			
b	PTT screw 4x8			
С	PT screw 5x10			

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

LGH-65RVX-E1,LGH-65RVX-ER

		D. G. N.		'ty /unit	Critical	Remarks
No.	Name of part	Parts No.	LGH-65	LGH-65	for	
			RVX-E1	RVX-ER	safety	
1	Special screw M4	W00 000 101	2	2		
2	Filter stopper	W50 004 717	8	8		
3	Core guide L	W50 013 383	1	1		
4	Filter	W50 003 737	4	4	⚠	
5	Lossnay core	W50 013 718	2	2	⚠	With the filter stoppers
6	Core guide R	W50 013 390	1	1		
7	Fix piece	W50 013 722	1	1		
8	Lead support	W50 013 705	2	2		
9	Hinge	W50 004 344	2	2		
10	Cover	W50 003 707	2	2		
11	Hanger L	W36 002 380	2	2		
12	Fix piece	W50 004 731	1	1		
13	Special screw 4x8	W00 000 089	4	4		
14	Special screw 4x8	W00 000 098	2	2		
15	Flange	W50 004 609	4	4		
16	Hanger R	W50 004 380	2	2		
17	Maintenance cover	W50 013 710	1	1		Cushion set
18	Screws in bag	W50 013 051	1			
18	Screws in bag	W50 013 049		1		

Air exhaust fan assembly

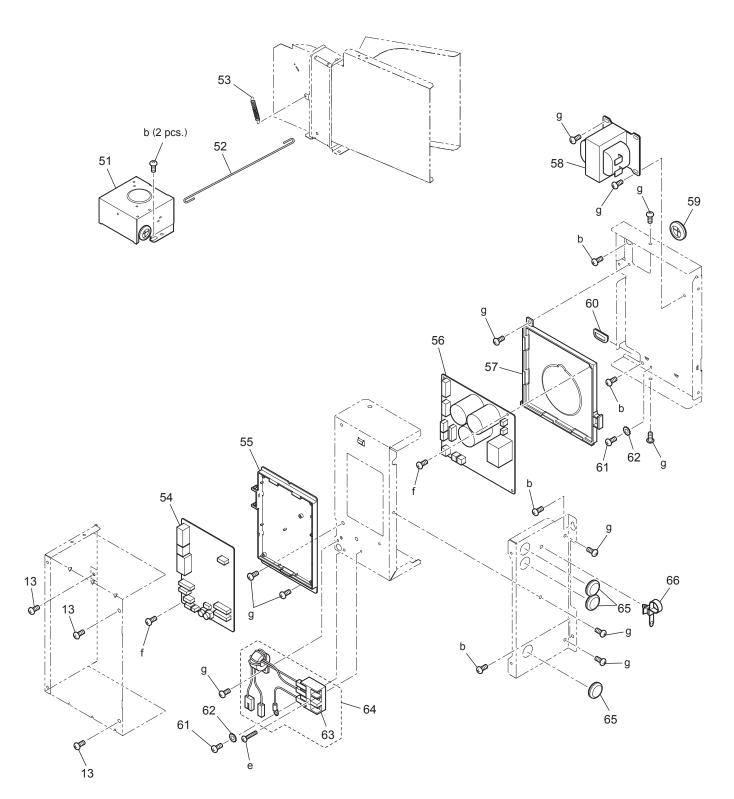


<Standard screws>

Symbol	Screw name
d	PTT screw 5x10

LGH-65RVX-E1,LGH-65RVX-ER

No.	Name of part	Parts No.	Q'ty pcs/unit		Critical for	Remarks
110.	riamo or part	r dito ivo.	LGH-65 RVX-E1	LGH-65 RVX-ER	safety	rtemante
31	Special nut (M10)	W00 000 195	2	2		Left-handed
32	Tab washer	W50 013 712	2	2		
33	Centrifugal fan	W50 013 482	2	2	⚠	φ 245
34	Special washer (10)	W50 003 478	2	2		
35	Inlet ring	W50 004 725	2	2		
36	DC motor	W50 013 460	1	1	⚠	EA
37	Motor fix plate	W50 013 724	2	2		
38	Separator	W50 003 488	2	2		
39	DC motor	W50 013 459	1	1	⚠	SA

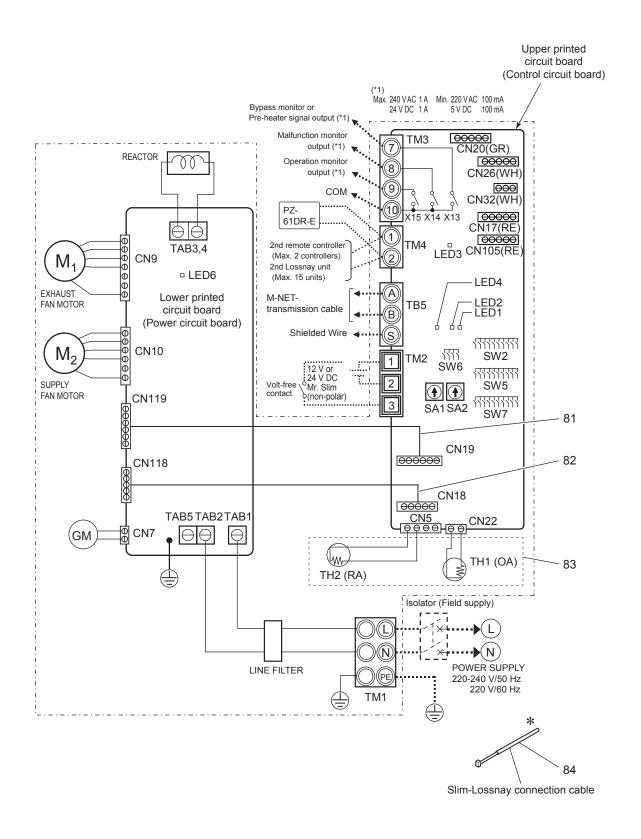


<Standard screws>

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

LGH-65RVX-E1,LGH-65RVX-ER

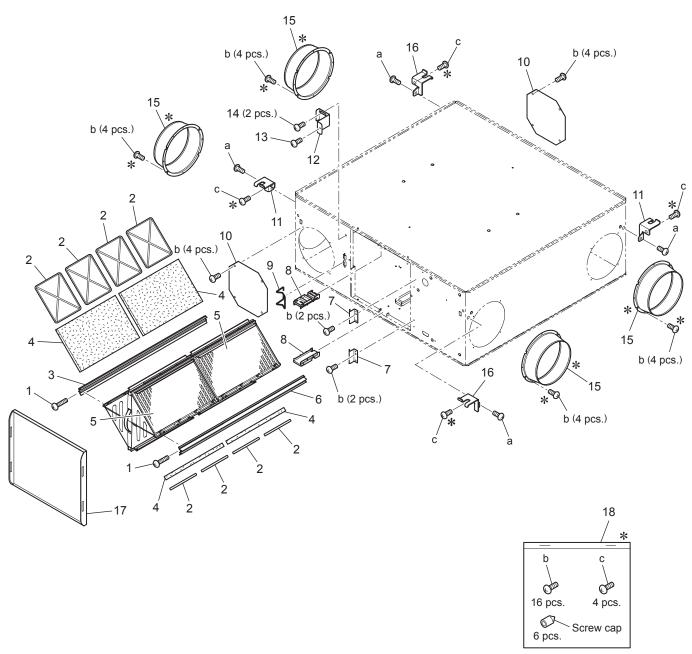
No.	Name of part	Parts No.	Q'ty pcs/unit		Critical for	Remarks
			LGH-65 RVX-E1	LGH-65 RVX-ER	safety	
51	GM assembly	W50 013 263	1	1	Æ	AC220 · 240V
52	Rod	W50 013 150	1	1		
53	Pull spring	W50 013 157	1	1		
54	Circuit board	W50 004 174	1	1	⚠	LG-X07DC-E·C
55	PCB fix plate	W50 004 381	1	1		
56	Circuit board	W50 004 173	1	1	⚠	LG-X07DC-E·P
57	PCB case	W50 004 383	1	1		
58	Reactor	W50 004 179	1	1	⚠	White · AC10A
59	Bush	W00 000 277	1	1		
60	Bush	W00 000 278	1	1		
61	PT screw 4x8 BS	W00 000 011	2	2		
62	Lock washer (4)	W00 000 082	2	2		
63	Terminal block	W45 602 242	1	1	⚠	3P
64	Terminal block	W36 002 213	1	1	⚠	With the lead wires
65	Cord bush	W00 000 270	3	3		
66	Cord band	W00 000 258	1	1		



LGH-65RVX-E1,LGH-65RVX-ER

No.	Name of part	Parts No.	Q'ty pcs/unit		Critical for	Remarks
110.			LGH-65 RVX-E1	LGH-65 RVX-ER	safety	remane
81	Lead wire	W36 002 214	1	1	⚠	CN19-CN119
82	Lead wire	W36 002 215	1	1	⚠	CN18-CN118
83	Thermistor	W50 013 170	1	1	⚠	OA·RA set
84	Lead wire	W50 004 231	1	1	⚠	100mm

LGH-80RVX-E 1, LGH-80RVX-ER



<Standard screws>

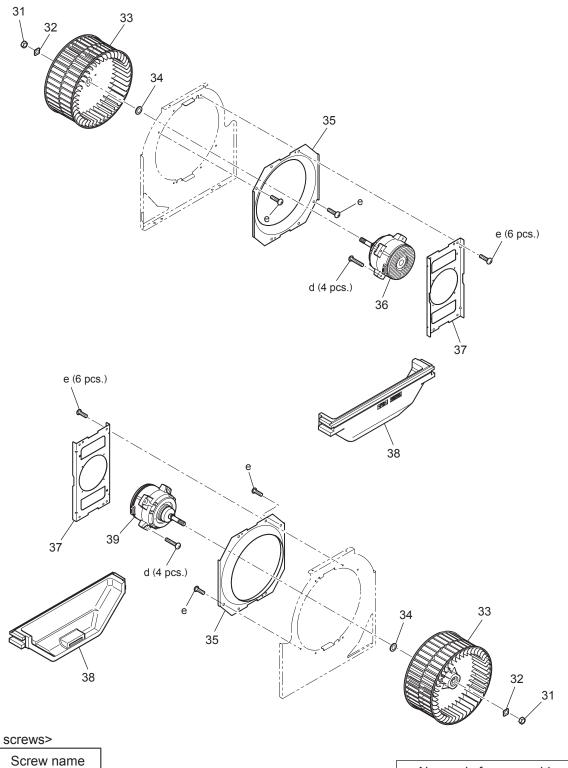
Otaliaala oolowo				
Symbol	Screw name			
а	PT screw 6x12			
b	PTT screw 4x8			
С	PT screw 5x10			

* shows accessory parts.

LGH-80RVX-E1,LGH-80RVX-ER

No.	Name of part	Parts No.	Q'ty pcs/unit		Critical for	Remarks
140.	Name of part	r unto rvo.	LGH-80 RVX-E1	LGH-80 RVX-ER	safety	Remarks
1	Special screw M4	W00 000 101	2	2		
2	Filter stopper	W50 004 716	8	8		
3	Core guide L	W50 013 384	1	1		
4	Filter	W50 003 738	4	4	⚠	
5	Lossnay core	W50 013 719	2	2	⚠	With the filter stoppers
6	Core guide R	W50 013 391	1	1		
7	Fix piece	W50 013 722	2	2		
8	Lead support	W50 013 706	2	2		
9	Hinge	W50 004 344	1	1		
10	Cover	W50 003 708	2	2		
11	Hanger L	W36 002 380	2	2		
12	Fix piece	W50 004 731	1	1		
13	Special screw 4x8	W00 000 089	4	4		
14	Special screw 4x8	W00 000 098	2	2		
15	Flange	W50 003 610	4	4		
16	Hanger R	W50 004 380	2	2		
17	Maintenance cover	W50 013 711	1	1		Cushion set
18	Screws in bag	W50 013 051	1			
18	Screws in bag	W50 013 049		1		

Air exhaust fan assembly



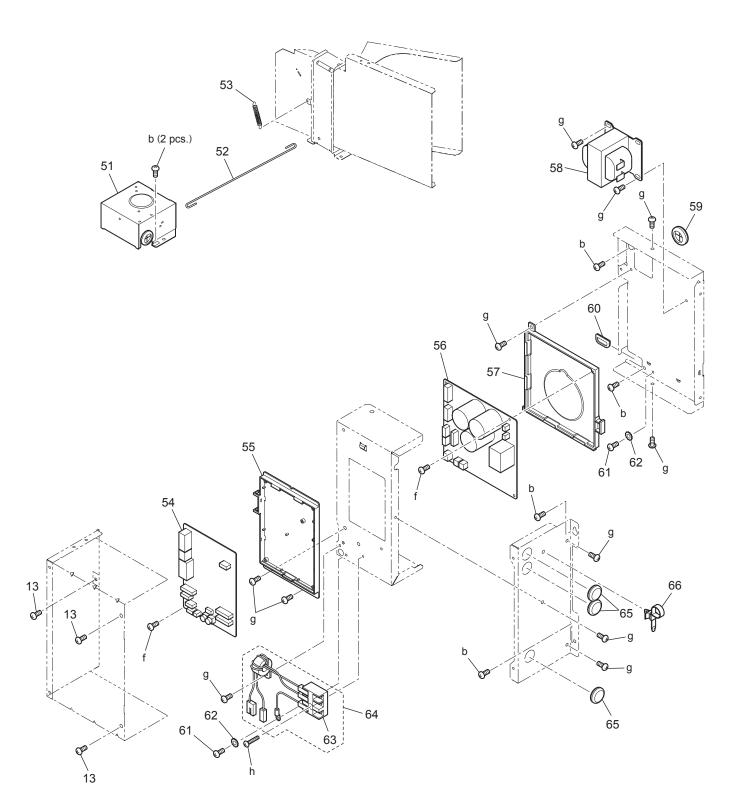
<Standard screws>

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

Air supply fan assembly

LGH-80RVX-E1,LGH-80RVX-ER

No	No. Name of part	Parts No.	Q'ty pcs/unit		Critical for	Remarks
110.			LGH-80 RVX-E1	LGH-80 RVX-ER	safety	rtemarke
31	Special nut (M12)	W00 000 117	2	2		Left-handed
32	Tab washer	W50 004 730	2	2		
33	Centrifugal fan	W50 004 482	2	2	\triangle	φ 245
34	Washer (12)	W00 000 123	2	2		
35	Inlet ring	W50 004 725	2	2		
36	DC motor	W50 013 456	1	1	⚠	EA
37	Motor fix plate	W50 004 736	2	2		
38	Separator	W50 013 487	2	2		
39	DC motor	W50 013 455	1	1	⚠	SA

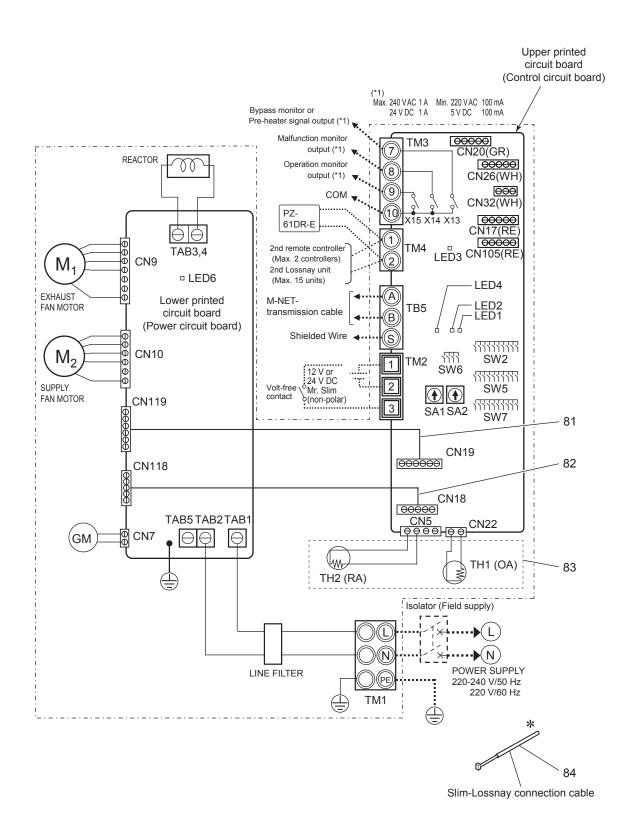


<Standard screws>

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

LGH-80RVX-E1,LGH-80RVX-ER

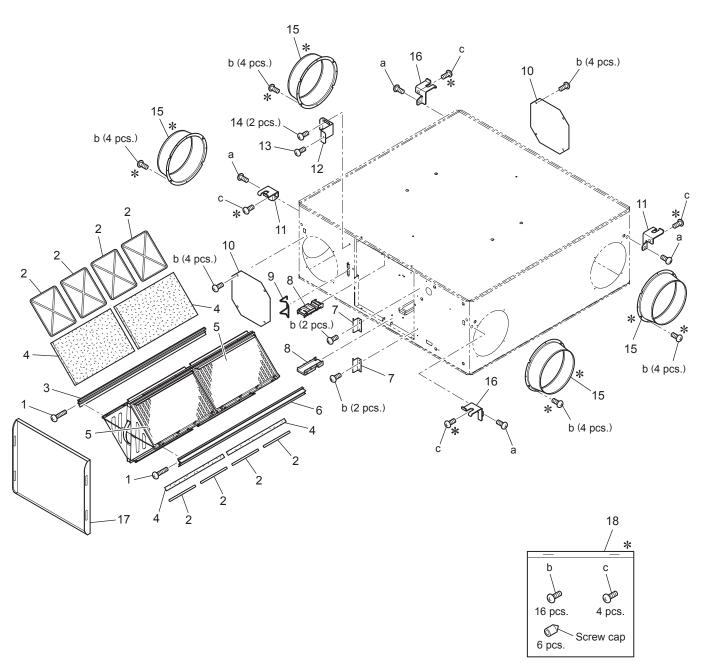
No.	Name of part	Parts No.	Q'ty pcs/unit LGH-80 LGH-80		Critical for	Remarks
			RVX-E1	RVX-ER	safety	
51	GM assembly	W50 013 263	1	1	⚠	AC220 · 240V
52	Rod	W50 004 150	1	1		
53	Pull spring	W50 013 157	1	1		
54	Circuit board	W50 004 174	1	1	⚠	LG-X07DC-E·C
55	PCB fix plate	W50 004 381	1	1		
56	Circuit board	W50 004 173	1	1	⚠	LG-X07DC-E·P
57	PCB case	W50 004 383	1	1		
58	Reactor	W50 004 181	1	1	⚠	Yellow·AC3.5A
59	Bush	W00 000 277	1	1		
60	Bush	W00 000 278	1	1		
61	PT screw 4x8 BS	W00 000 011	2	2		
62	Lock washer (4)	W00 000 082	2	2		
63	Terminal block	W45 602 242	1	1	⚠	3P
64	Terminal block	W36 002 213	1	1	⚠	With the lead wires
65	Cord bush	W00 000 270	3	3		
66	Cord band	W00 000 258	1	1		



LGH-80RVX-E1,LGH-80RVX-ER

No.	Name of part	Parts No.	Q'ty pcs/unit		Critical for	Remarks
110.	rtaine of part	r dito ivo.	LGH-80 RVX-E1	LGH-80 RVX-ER	safety	rtemarke
81	Lead wire	W36 002 214	1	1	⚠	CN19-CN119
82	Lead wire	W36 002 215	1	1	⚠	CN18-CN118
83	Thermistor	W50 013 170	1	1	⚠	OA·RA set
84	Lead wire	W50 004 231	1	1	⚠	100mm

LGH-100RVX-E 1, LGH-100RVX-ER



<Standard screws>

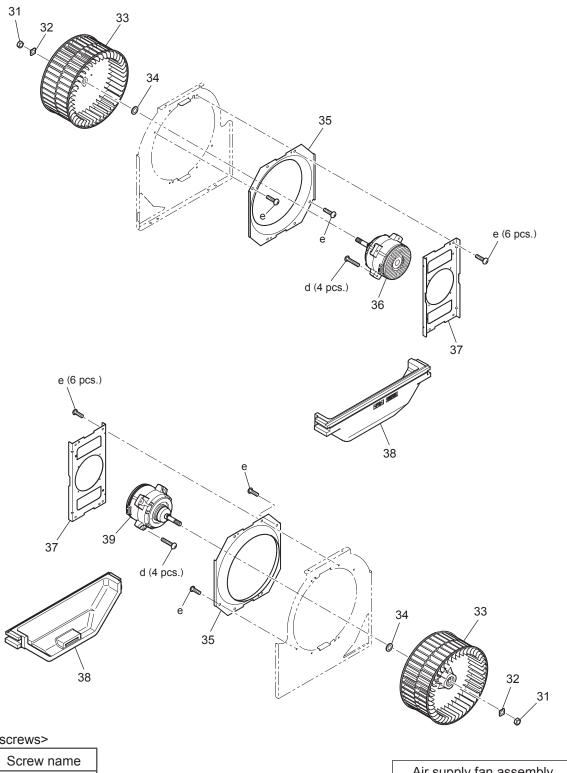
Otaliaala oolowo				
Symbol	Screw name			
а	PT screw 6x12			
b	PTT screw 4x8			
С	PT screw 5x10			

* shows accessory parts.

LGH-100RVX-E1,LGH-100RVX-ER

No.	Name of part	Parts No.	Q'ty pcs/unit		Critical for	Remarks
			LGH-100 RVX-E1	LGH-100 RVX-ER	safety	remand
1	Special screw M4	W00 000 101	2	2		
2	Filter stopper	W50 004 716	8	8		
3	Core guide L	W50 013 385	1	1		
4	Filter	W50 004 724	4	4	⚠	
5	Lossnay core	W50 013 720	2	2	⚠	With the filter stoppers
6	Core guide R	W50 013 392	1	1		
7	Fix piece	W50 013 722	2	2		
8	Lead support	W50 013 706	2	2		
9	Hinge	W50 004 344	1	1		
10	Cover	W50 003 708	2	2		
11	Hanger L	W36 002 380	2	2		
12	Fix piece	W50 004 731	1	1		
13	Special screw 4x8	W00 000 089	4	4		
14	Special screw 4x8	W00 000 098	2	2		
15	Flange	W50 003 610	4	4		
16	Hanger R	W50 004 380	2	2		
17	Maintenance cover	W50 013 711	1	1		Cushion set
18	Screws in bag	W50 013 051	1			
18	Screws in bag	W50 013 049		1		

Air exhaust fan assembly



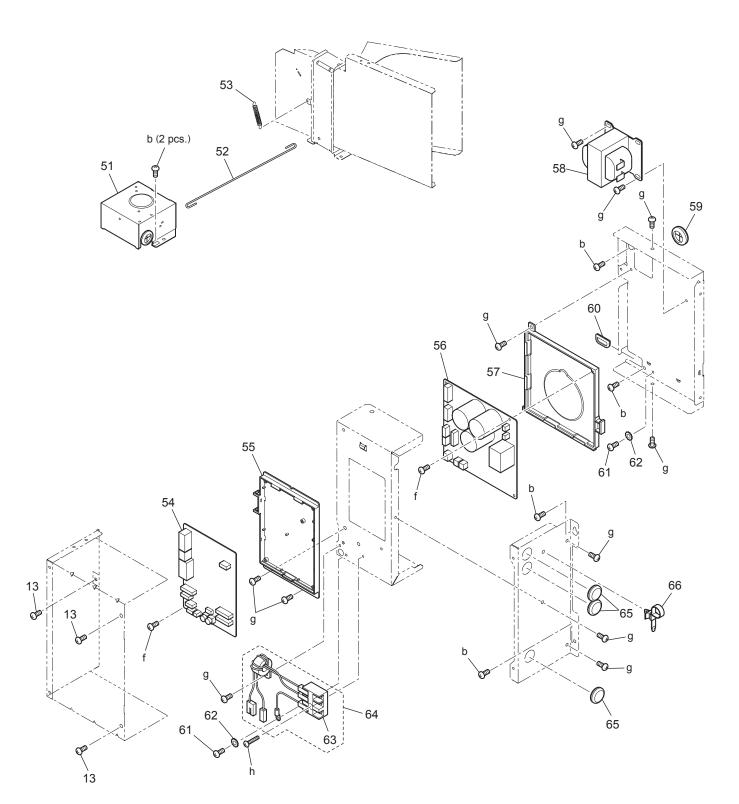
<Standard screws>

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

Air supply fan assembly

LGH-100RVX-E1,LGH-100RVX-ER

No.	Name of part	Parts No.	Q'ty pcs/unit		Critical for	Remarks
110.			LGH-100 RVX-E1	LGH-100 RVX-ER	safety	
31	Special nut (M12)	W00 000 117	2	2		Left-handed
32	Tab washer	W50 004 730	2	2		
33	Centrifugal fan	W50 004 482	2	2	⚠	φ 245
34	Washer (12)	W00 000 123	2	2		
35	Inlet ring	W50 004 725	2	2		
36	DC motor	W50 013 456	1	1	⚠	EA
37	Motor fix plate	W50 004 736	2	2		
38	Separator	W50 013 487	2	2		
39	DC motor	W50 013 455	1	1	⚠	SA

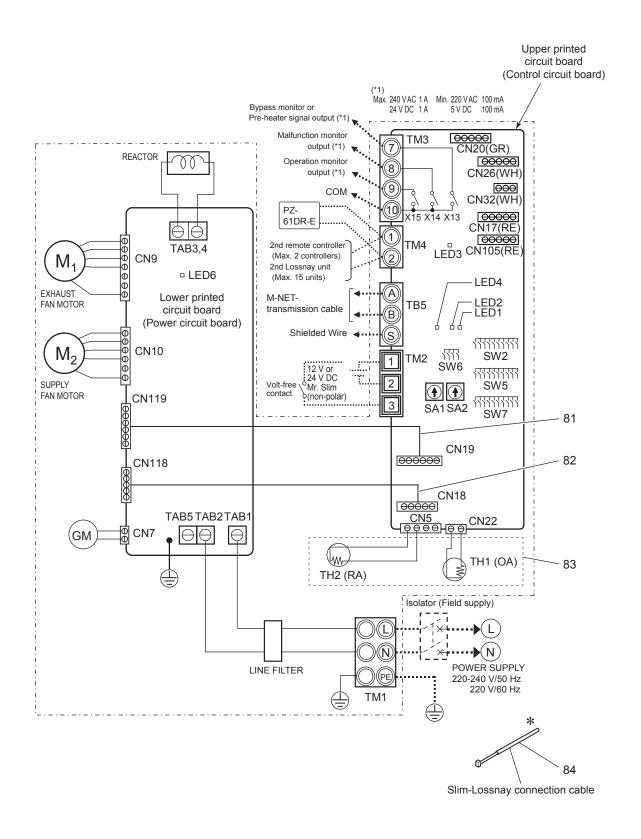


<Standard screws>

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

LGH-100RVX-E1,LGH-100RVX-ER

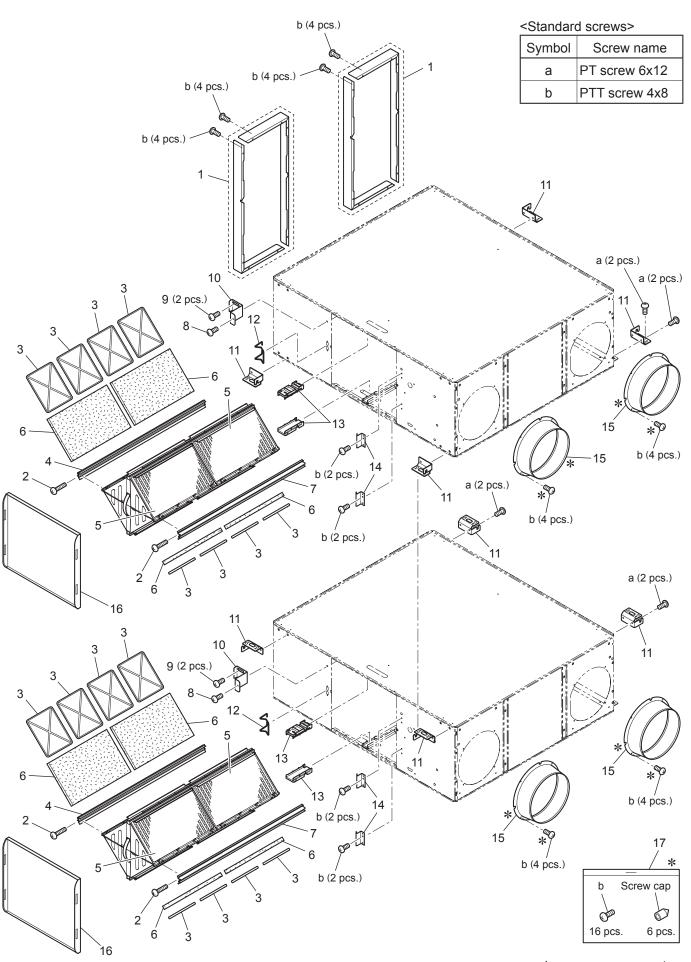
No.	Name of part	Parts No.	Q'ty pcs/unit		Critical for	Remarks
			LGH-100 RVX-E1	LGH-100 RVX-ER	safety	
51	GM assembly	W50 013 264	1	1	Æ	AC220·240V
52	Rod	W50 004 150	1	1		
53	Pull spring	W50 013 157	1	1		
54	Circuit board	W50 004 174	1	1	A	LG-X07DC-E·C
55	PCB fix plate	W50 004 381	1	1		
56	Circuit board	W50 004 173	1	1	⚠	LG-X07DC-E·P
57	PCB case	W50 004 383	1	1		
58	Reactor	W50 004 180	1	1		White · AC10A
59	Bush	W00 000 277	1	1		
60	Bush	W00 000 278	1	1		
61	PT screw 4x8 BS	W00 000 011	2	2		
62	Lock washer (4)	W00 000 082	2	2		
63	Terminal block	W45 602 242	1	1	⚠	3P
64	Terminal block	W36 002 213	1	1	⚠	With the lead wires
65	Cord bush	W00 000 270	3	3		
66	Cord band	W00 000 258	1	1		
		_	-			



LGH-100RVX-E1,LGH-100RVX-ER

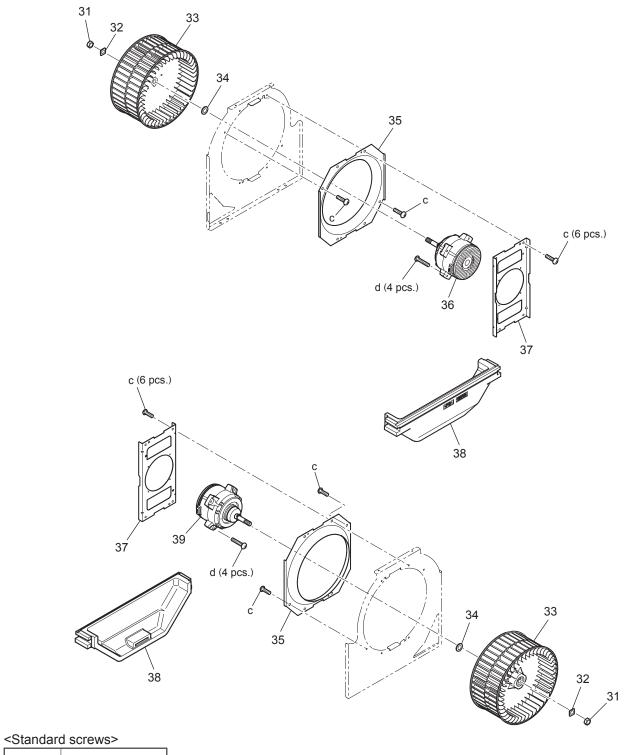
No.	Name of part	Parts No.	Q'ty pcs/unit		Critical for	Remarks
110.			LGH-100 RVX-E1	LGH-100 RVX-ER	safety	remarke
81	Lead wire	W36 002 214	1	1	⚠	CN19-CN119
82	Lead wire	W36 002 215	1	1	⚠	CN18-CN118
83	Thermistor	W50 013 171	1	1	⚠	OA·RA set
84	Lead wire	W50 004 231	1	1	⚠	100mm

LGH-150RVX-E 1, LGH-150RVX-ER



	Newsofield	Darta Na		Q'ty pcs/unit		
No.	Name of part	Parts No.	LGH-150 RVX-E1	LGH-150 RVX-ER	for safety	Remarks
1	Flange (A/B)	W50 013 707	2	2		
2	Special screw M4	W00 000 101	4	4		
3	Filter stopper	W50 004 716	16	16		
4	Core guide L	W50 013 384	2	2		
5	Lossnay core	W50 013 719	4	4	⚠	With the filter stoppers
6	Filter	W50 003 738	8	8	⚠	
7	Core guide R	W50 013 391	2	2		
8	Special screw 4x8	W00 000 089	5	5		
9	Special screw 4x8	W00 000 098	4	4		
10	Fix piece	W50 004 731	2	2		
11	Hanger	W50 001 382	8	8		
12	Hinge	W50 004 344	2	2		
13	Lead support	W50 013 706	4	4		
14	Fix piece	W50 013 722	4	4		
15	Flange	W50 003 610	4	4		
16	Maintenance cover	W50 013 711	2	2		Cushion set
17	Screws in bag	W50 013 052	1			
17	Screws in bag	W50 013 050		1		
			-			

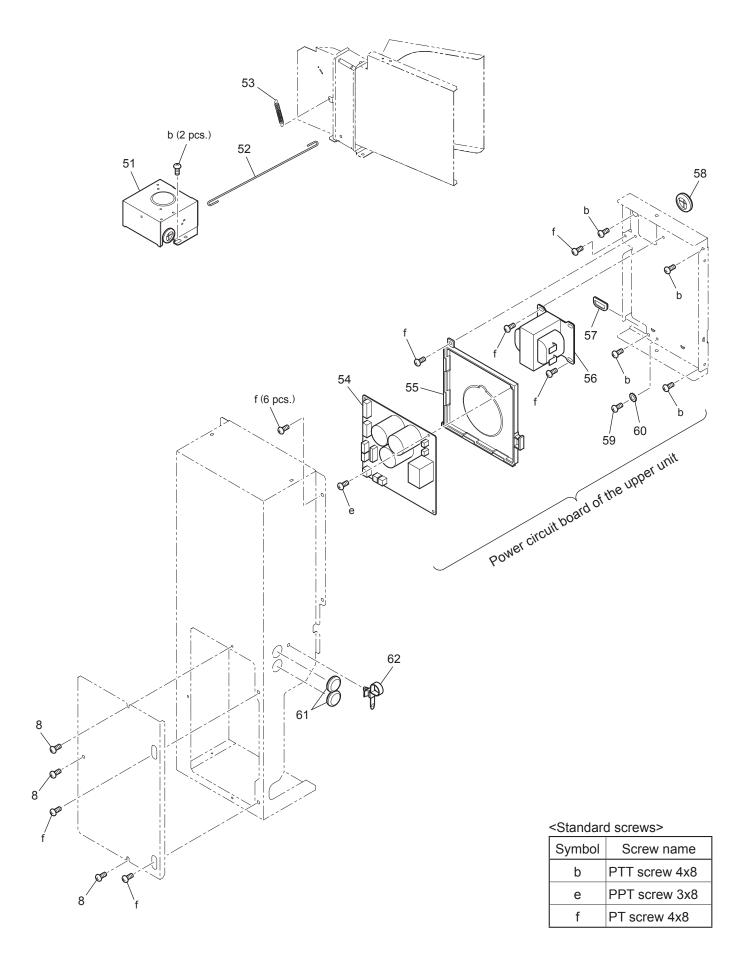
Air exhaust fan assembly



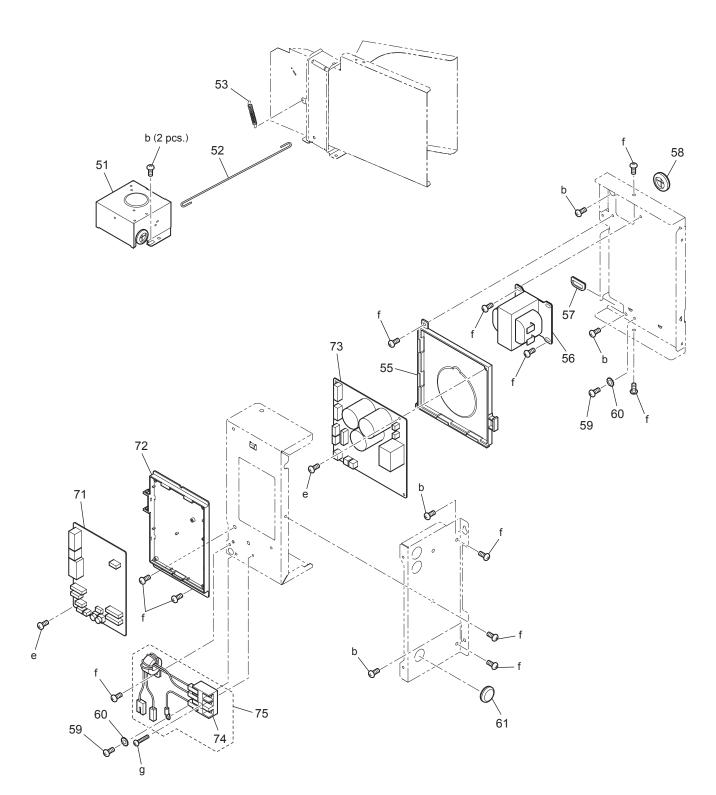
Symbol	Screw name
С	PTT screw 5x10
d	PTT screw 4x25

Air supply fan assembly

No.	Name of part	Parts No.	Q'ty pcs/unit		Critical for	Remarks
110.			LGH-150 RVX-E1	LGH-150 RVX-ER	safety	rtemarke
31	Special nut (M12)	W00 000 117	4	4		Left-handed
32	Tab washer	W50 004 730	4	4		
33	Centrifugal fan	W50 004 482	4	4	⚠	φ 245
34	Washer (12)	W00 000 123	4	4		
35	Inlet ring	W50 004 725	4	4		
36	DC motor	W50 013 456	2	2	⚠	EA
37	Motor fix plate	W50 004 736	4	4		
38	Separator	W50 013 487	4	4		
39	DC motor	W50 013 455	2	2	⚠	SA



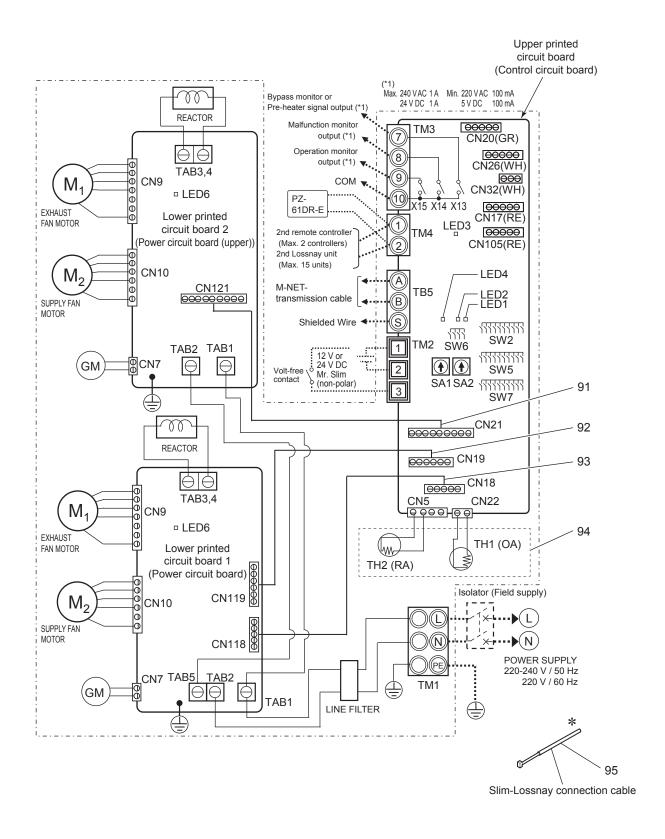
No.	Name of part	Parts No.	Q'ty pcs/unit		Critical for	Remarks
110.		r dito 110.	LGH-150 RVX-E1	LGH-150 RVX-ER	safety	rtemante
51	GM assembly	W50 013 263	2	2	A	AC220 · 240V
52	Rod	W50 004 150	2	2		
53	Pull spring	W50 013 157	2	2		
54	Circuit board	W50 004 172	1	1	⚠	LG-X07DC-E1
55	PCB case	W50 004 383	2	2		
56	Reactor	W50 004 181	2	2	\triangle	Yellow·AC3.5A
57	Bush	W00 000 278	2	2		
58	Bush	W00 000 277	2	2		
59	PT screw 4x8 BS	W00 000 011	3	3		
60	Lock washer (4)	W00 000 082	3	3		
61	Cord bush	W00 000 270	3	3		
62	Cord band	W00 000 258	1	1		
		_	-			



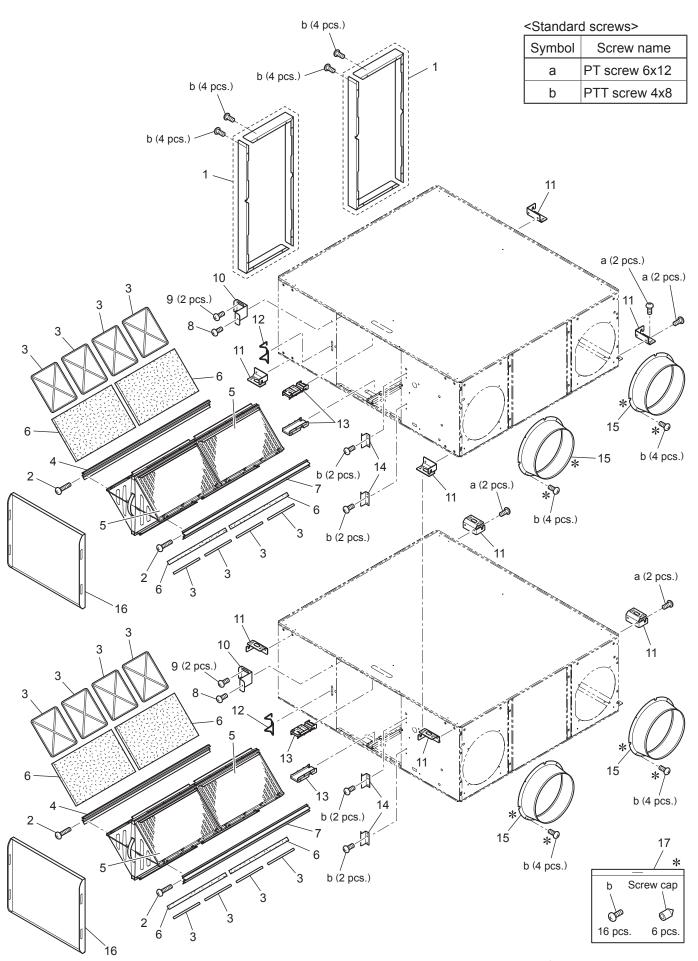
<Standard screws>

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

No.	Name of part	Parts No.	Q pcs.	'ty /unit	Critical for safety	Remarks
110.			LGH-150 RVX-E1	LGH-150 RVX-ER		
71	Circuit board	W50 004 174	1	1	⚠	LG-X07DC-E·C
72	PCB fix plate	W50 004 381	1	1		
73	Circuit board	W50 004 173	1	1	⚠	LG-X07DC-E·P
74	Terminal block	W45 602 242	1	1	A	3P
75	Terminal block	W50 013 214	1	1	⚠	With the lead wires

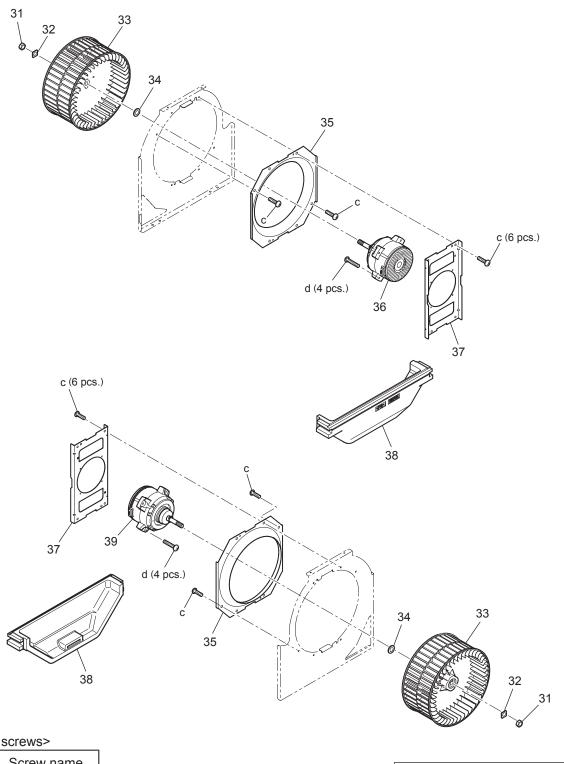


No.	Name of part	Parts No.		'ty /unit	Critical for safety	Remarks
			LGH-150 RVX-E1	LGH-150 RVX-ER		
91	Lead wire	W50 013 213	1	1	⚠	CN21-CN121
92	Lead wire	W36 002 214	1	1	A	CN19-CN119
93	Lead wire	W36 002 215	1	1	⚠	CN18-CN118
94	Thermistor	W50 013 170	1	1	⚠	OA·RA set
95	Lead wire	W50 004 231	1	1	<u> </u>	100mm



No.	Name of part	Parts No.	Q'ty pcs/unit		Critical for	Remarks
110.	ramo or pare	r and mo.	LGH-200 RVX-E1	LGH-200 RVX-ER	safety	rtomante
1	Flange (A/B)	W50 013 707	2	2		
2	Special screw M4	W00 000 101	4	4		
3	Filter stopper	W50 004 716	16	16		
4	Core guide L	W50 013 385	2	2		
5	Lossnay core	W50 013 720	4	4	⚠	With the filter stoppers
6	Filter	W50 004 724	8	8	⚠	
7	Core guide R	W50 013 392	2	2		
8	Special screw 4x8	W00 000 089	5	5		
9	Special screw 4x8	W00 000 098	4	4		
10	Fix piece	W50 004 731	2	2		
11	Hanger	W50 001 382	8	8		
12	Hinge	W50 004 344	2	2		
13	Lead support	W50 013 706	4	4		
14	Fix piece	W50 013 722	4	4		
15	Flange	W50 003 610	4	4		
16	Maintenance cover	W50 013 711	2	2		Cushion set
17	Screws in bag	W50 013 052	1			
17	Screws in bag	W50 013 050		1		

Air exhaust fan assembly

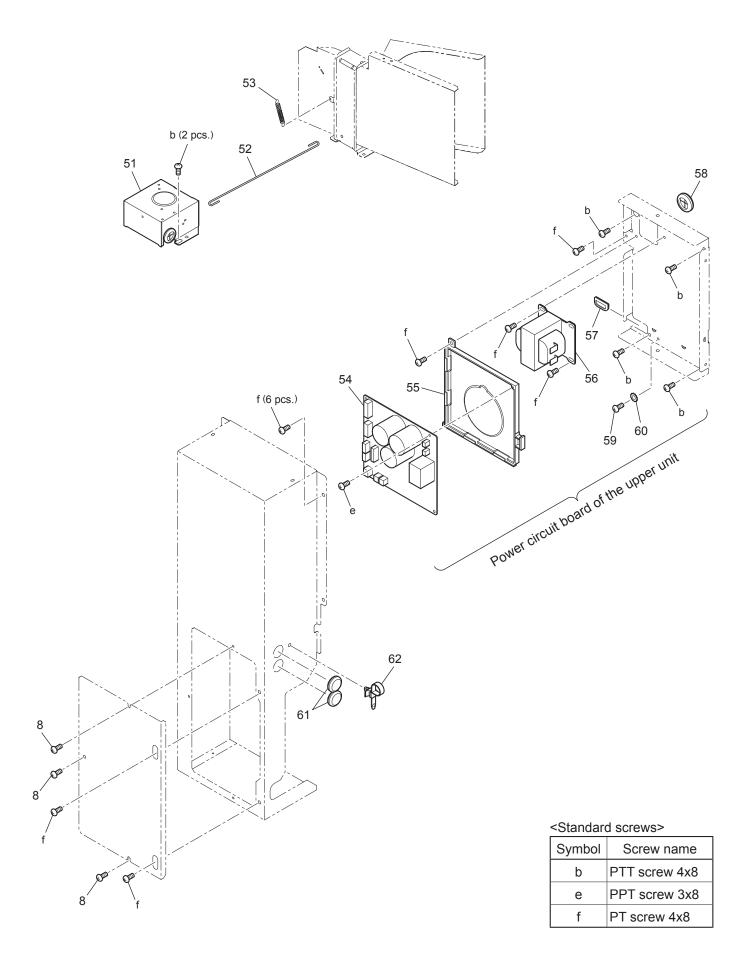


<Standard screws>

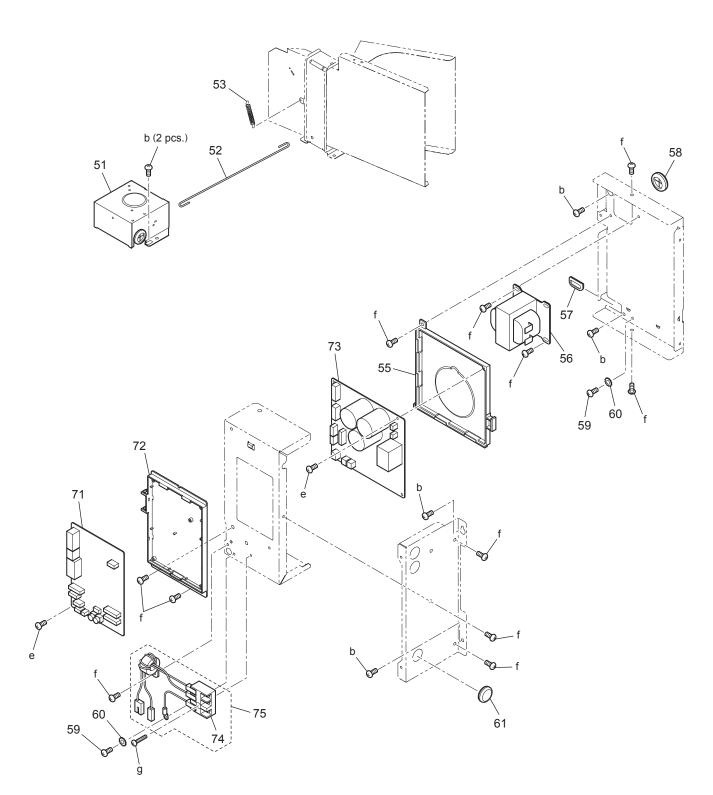
Symbol	Screw name
С	PTT screw 5x10
d	PTT screw 4x25

Air supply fan assembly

No.	Name of part	Parts No.	Q'ty pcs/unit		Critical for	Remarks
110.			LGH-200 RVX-E1	LGH-200 RVX-ER	safety	rtemante
31	Special nut (M12)	W00 000 117	4	4		Left-handed
32	Tab washer	W50 004 730	4	4		
33	Centrifugal fan	W50 004 482	4	4	⚠	φ 245
34	Washer (12)	W00 000 123	4	4		
35	Inlet ring	W50 004 725	4	4		
36	DC motor	W50 013 456	2	2	⚠	EA
37	Motor fix plate	W50 004 736	4	4		
38	Separator	W50 013 487	4	4		
39	DC motor	W50 013 455	2	2	Æ	SA



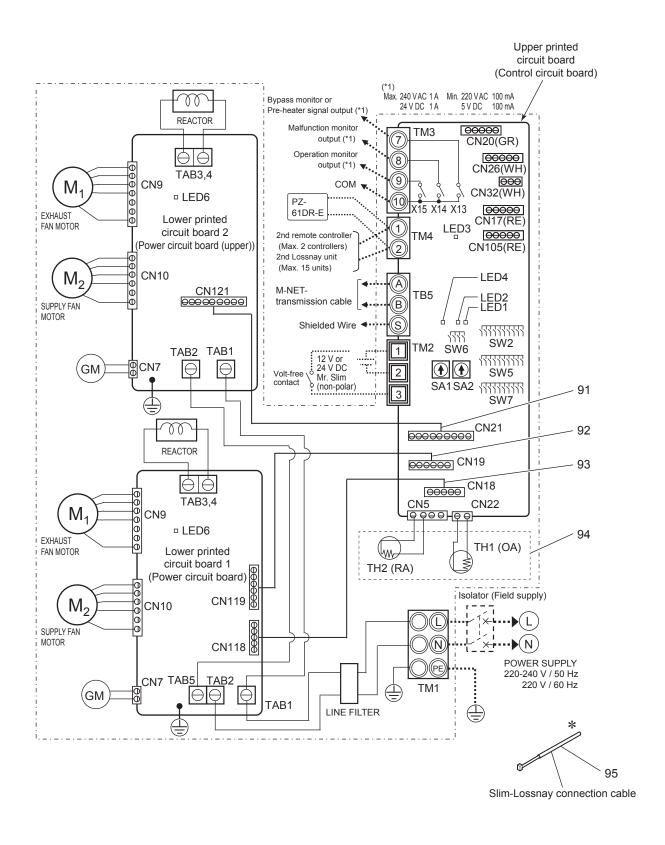
No.	Name of part	Parts No.	Q'ty pcs/unit		Critical for	Remarks
140.		r and mo.	LGH-200 RVX-E1	LGH-200 RVX-ER	safety	rtemante
51	GM assembly	W50 013 264	2	2	⚠	AC220 · 240V
52	Rod	W50 004 150	2	2		
53	Pull spring	W50 013 157	2	2		
54	Circuit board	W50 004 172	1	1	⚠	LG-X07DC-E1
55	PCB case	W50 004 383	2	2		
56	Reactor	W50 004 181	2	2	⚠	Yellow·AC3.5A
57	Bush	W00 000 278	2	2		
58	Bush	W00 000 277	2	2		
59	PT screw 4x8 BS	W00 000 011	3	3		
60	Lock washer (4)	W00 000 082	3	3		
61	Cord bush	W00 000 270	3	3		
62	Cord band	W00 000 258	1	1		



<Standard screws>

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

No.	Name of part	Parts No.	Q'ty pcs/unit		Critical for	Remarks				
			LGH-200 RVX-E1	LGH-200 RVX-ER	safety	remarke				
71	Circuit board	W50 004 174	1	1	⚠	LG-X07DC-E·C				
72	PCB fix plate	W50 004 381	1	1						
73	Circuit board	W50 004 173	1	1	⚠	LG-X07DC-E·P				
74	Terminal block	W45 602 242	1	1	⚠	3P				
75	Terminal block	W50 013 214	1	1	Æ	With the lead wires				



No.	Name of part	Parts No.	Q'ty pcs/unit		Critical for	Remarks				
			LGH-200 RVX-E1	LGH-200 RVX-ER	safety	remane				
91	Lead wire	W50 013 213	1	1	\wedge	CN21-CN121				
					_					
92	Lead wire	W36 002 214	1	1	⚠	CN19-CN119				
93	Lead wire	W36 002 215	1	1	⚠	CN18-CN118				
94	Thermistor	W50 013 171	1	1	Æ	OA·RA set				
95	Lead wire	W50 004 231	1	1	Æ	100mm				