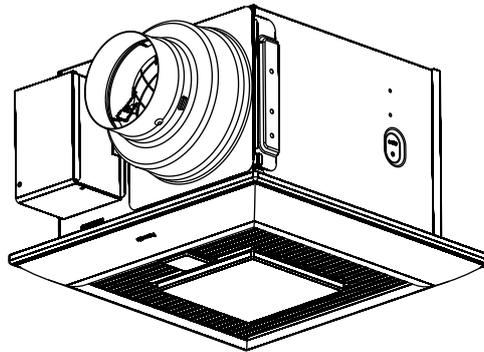


# Service Manual

Ventilating Fan  
WhisperSense™  
(North America Market)



FV-08VQCL5  
FV-11VQCL5

## ⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

## IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by ⚠ in the Schematic Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacture. We suggest to handle such parts after the static electricity prevention. It is forbidden to touch the PCB parts by bare hands during the repairing process.

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# Panasonic®

# 1. Specifications

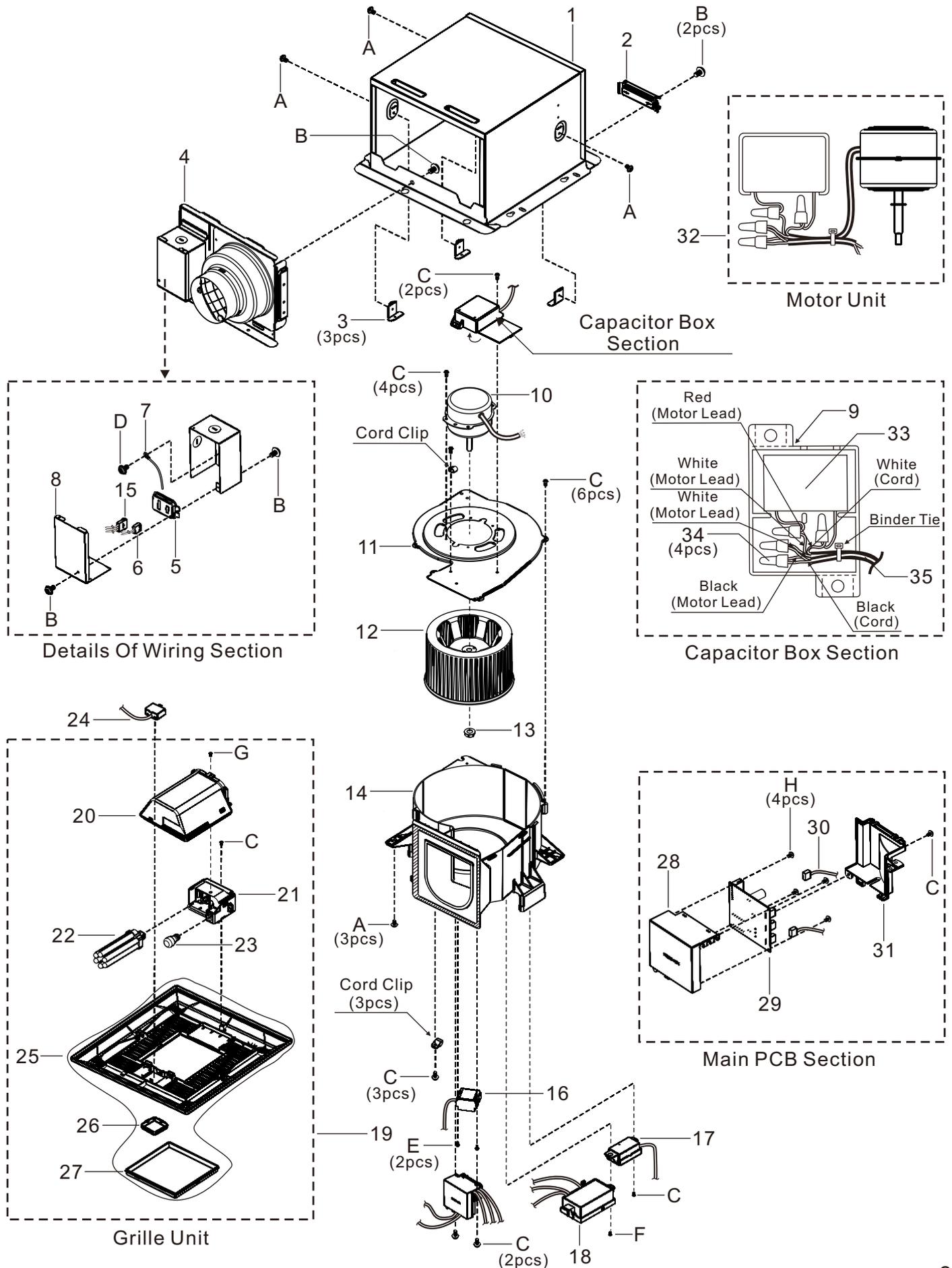
FV-08VQCL5  
FV-11VQCL5

Model No.	Air direction	Voltage (V)	Frequency (Hz)	Duct diameter (inches)	Noise (sones)	Power consumption (W)			Speed (rpm)	Air volume at 0.1"WG (CFM)	Weight lb.( kg)
						Fan	Lighting unit				
							Fluorescent lamp	Night lamp			
FV-08VQCL5	Exhaust	120	60	4 or 6	<0.3	15.5	32	4	890	80	11.7 (5.3)
FV-11VQCL5	Exhaust	120	60	4 or 6	0.7	24.5	32	4	1065	110	11.7 (5.3)

HVI Certified performance based on HVI Procedures 915,916,and 920.

# 2.Parts Identification

FV-08VQCL5  
FV-11VQCL5



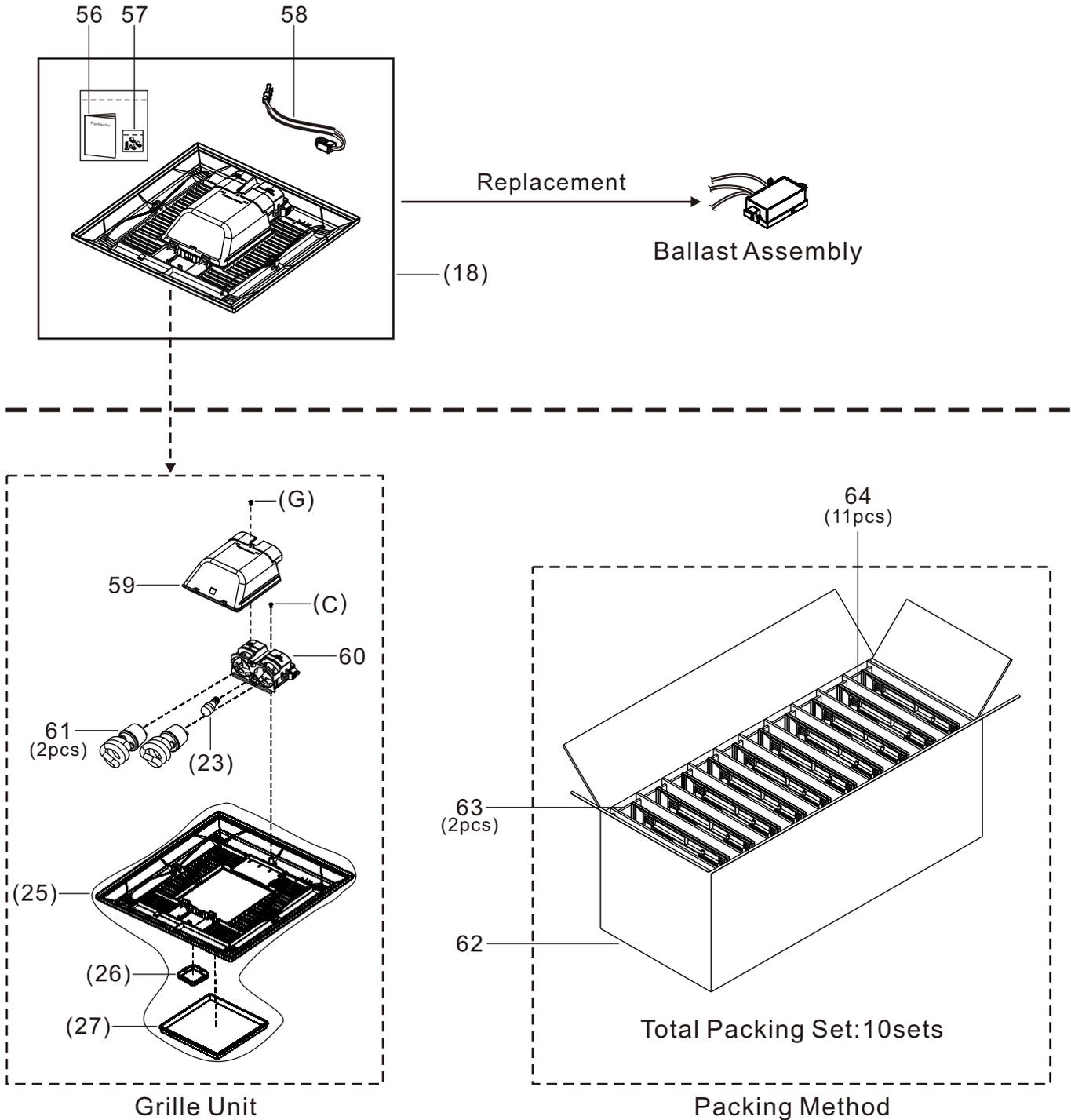
## 2.Parts Identification

FV-08VQCL5  
FV-11VQCL5

### Ballast Assembly Replacement Method

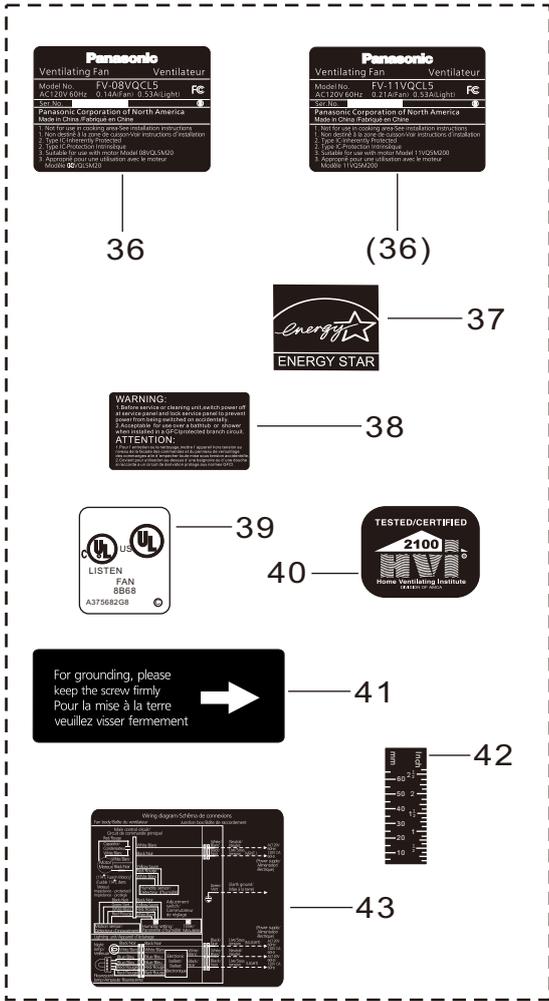
If the ballast assembly was damaged, please order the new grille unit section (FFV3420058S) to replace defective ballast assembly & original grille unit. Please refer to P12-P14 for replacement guide.

Remark: The minimum quantity of an order for this new grille unit is 10 sets.

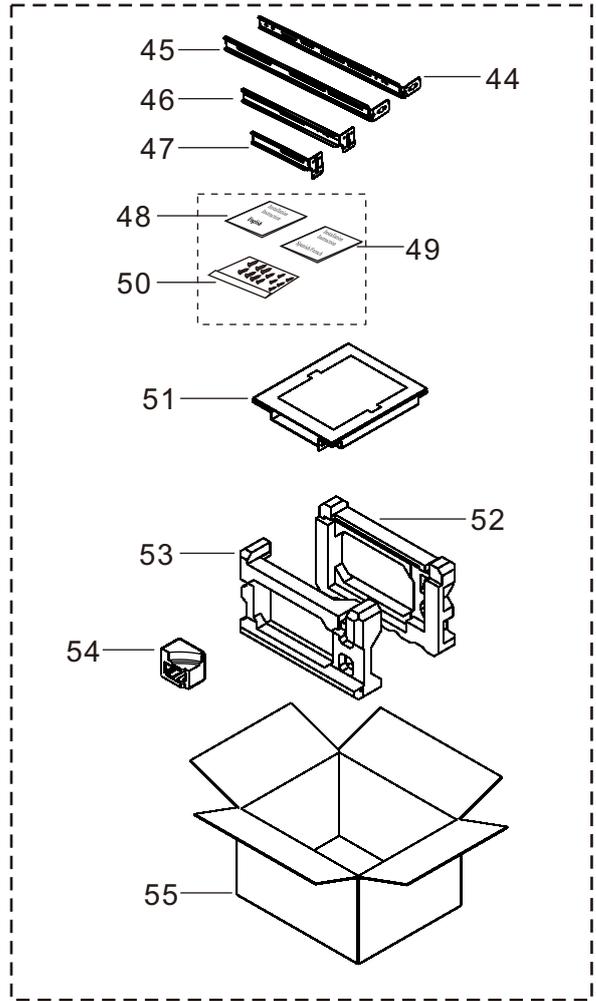


# 2.Parts Identification

FV-08VQCL5  
FV-11VQCL5



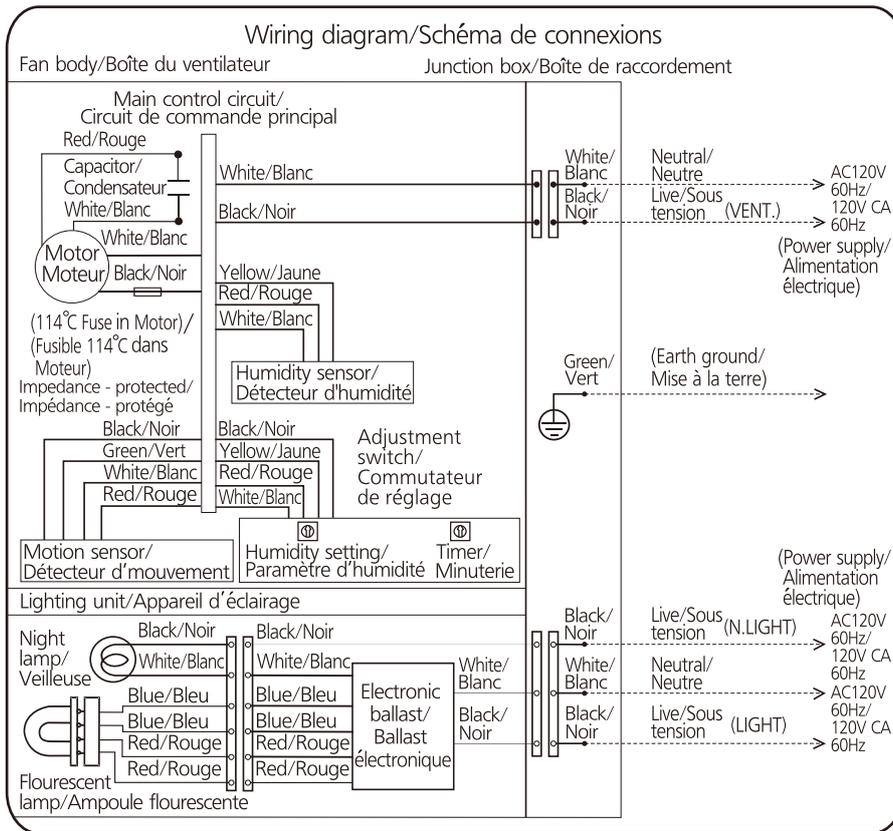
Main Labels  
(Stuck On Frame Assy)



Main Packing Materials

# 3. Wiring Diagram

FV-08VQCL5  
FV-11VQCL5



## 4.Parts List

FV-08VQCL5

FV-11VQCL5

No.	Part No.	Part Name	Q'ty	Remark
1	FFV1600111S	Frame Assembly	1	
2	FFV0420027S	Bracket Cover	1	
3	FFV0800001S	Casing Support	3	
4	FFV0000121S	Adapter Assembly	1	⚠
5	FFV0900048S	Connector Plate	1	
6	FFV0900049S	Connector Assembly V	1	⚠
7	FFV3402103S	Earth Lead Wire Assembly	1	⚠
8	FFV2800012S	Junction Cover	1	
9	FFV0760028S	Capacitor Box	1	⚠
10	FFV3702217S	Motor Assembly	1	For FV-08VQCL5 ⚠
(10)	FFV3702215S	Motor Assembly	1	For FV-11VQCL5 ⚠
11	FFV3730086S	Motor Support	1	
12	FFV0400103S	Blade	1	⚠
13	FFV7020021S	Nut	1	
14	FFV0790077S	Casing	1	⚠
15	FFV0900039S	Connector Assembly L	1	⚠
16	FFV2220053S	Humid Sensor Assembly	1	⚠
17	FFV5530065S	Switch Assembly	1	⚠
18	FFV3420058S	Grille Unit Section	1	Include Packing Section ⚠
19	FFV3420087S	Grille Unit	1	Fluorescent Lamp Brand:Maxlite ⚠
20	FFV3420025S	Light Kit Cover Assembly	1	⚠
21	FFV3420026S	Lamp Holder Section	1	⚠
22	FFV3420085S	Fluorescent Lamp	1	Brand:Maxlite ⚠
23	FFV3420005S	Night Lamp	1	⚠
24	FFV5500028S	Sensor Box Assembly	1	⚠
25	FFV3420030S	Grille Section	1	Include Sensor Cover&Lamp Cover ⚠
26	FFV2220051S	Sensor Cover	1	⚠
27	FFV3420029S	Lamp Cover	1	⚠
28	FFV3740021S	Main PCB Box	1	⚠
29	FFV3740022S	Main PCB	1	⚠
30	FFV4620077S	Power Lead Wire	1	⚠
31	FFV3740023S	Main PCB Cover	1	⚠
32	FFV3702243S	Motor Unit	1	For FV-08VQCL5 ⚠
(32)	FFV3702244S	Motor Unit	1	For FV-11VQCL5 ⚠
33	FFV0750203S	Capacitor	1	For FV-08VQCL5 ⚠
(33)	FFV0750204S	Capacitor	1	For FV-11VQCL5 ⚠
34	FFV0900024S	Connector	4	⚠
35	FFV3700330S	Motor Lead Wire	1	⚠
36	FFV4020687S	Name Plate	1	For FV-08VQCL5

## 4.Parts List

FV-08VQCL5

FV-11VQCL5

No.	Part No.	Part Name	Q'ty	Remark
(36)	FFV4020688S	Name Plate	1	For FV-11VQCL5
37	FFV1320001S	ESP Mark	1	
38	FFV0810010S	Warning Label	1	
39	FFV2260003S	UL Mark	1	
40	FFV2260002S	HVI Mark	1	
41	FFV6730045S	Warning Label	1	
42	FFV5720015S	Scale Tape	1	
43	FFV6730051S	Wiring Label	1	
44	FFV5710023S	Suspension Bracket I	1	
45	FFV5710024S	Suspension Bracket II	1	
46	FFV5710018S	Suspension Bracket IV	1	
47	FFV5710019S	Suspension Bracket III	1	
48	FFV2540123S	Installation Instruction	1	English,For CA Market/USA Market
49	FFV2540124S	Installation Instruction	1	French,For USA Market
(49)	FFV2540125S	Installation Instruction	1	Spanish,For CA Market
50	FFV0010200S	Accessory A	1	
51	FFV4710210S	Grille Case Assembly	1	
52	FFV4710344S	Right Pad	1	
53	FFV4710345S	Left Pad	1	
54	FFV4710330S	Sensor Pad	1	
55	FFV9000985S	Packing Case Assembly	1	For FV-08VQCL5
(55)	FFV9000986S	Packing Case Assembly	1	For FV-11VQCL5
56	FFV2540164S	Installation Instruction	1	
57	FFV0010230S	Accessory A	1	
58	FFV0730032S	Cord Assembly B	1	⚠
59	FFV3420066S	Light Kit Cover Assembly	1	⚠
60	FFV3420071S	Lamp Holder Section	1	⚠
61	FFV3420067S	Fluorescent Lamp	2	⚠
62	FFV9001067S	Packing Case	1	
63	FFV4710361S	Pad A	2	
64	FFV4710362S	Pad B	11	
A	FFV7000065S	Bind Screw	6	
B	FFV7000108S	Truss Tap Screw	5	
C	FFV7000089S	Truss Tap Screw	20	
D	FFV7000168S	Screw Assembly	1	Include Spring Washer&P.R Washer ⚠
E	FFV7000195S	Pan Tap Screw	2	
F	FFV7000074S	Truss Tap Screw	1	
G	FFV7000191S	Bind Screw	1	For Fixing Light Kit Cover Assembly
H	FFV7000145S	Truss Tap Screw	4	

# 5.Replacement Guide

## INSTALLATION

### ! WARNING

! Disconnect power source before working on unit.

1. Remove the primary light kit grille by pulling down one mounting spring, remove sensor unit and remove plug connector I, then pull down the other mounting spring (Squeeze mounting spring and pull down carefully). (Fig.1)

2. Take off the ballast assembly by removing 3 screws (ST4.2X12). (Fig.2)

### ! CAUTION

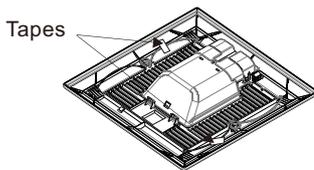
! Keep the screws that are removed for following use.

3. Fix the switch box by 1 screw (ST4.2X8) from accessories. (Fig.3)

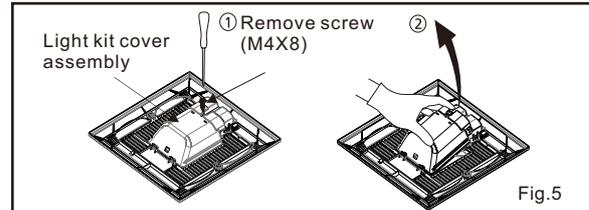
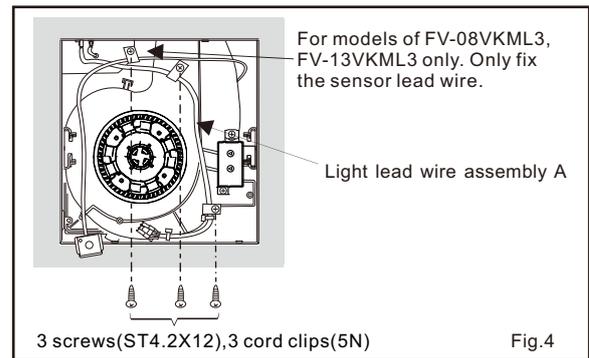
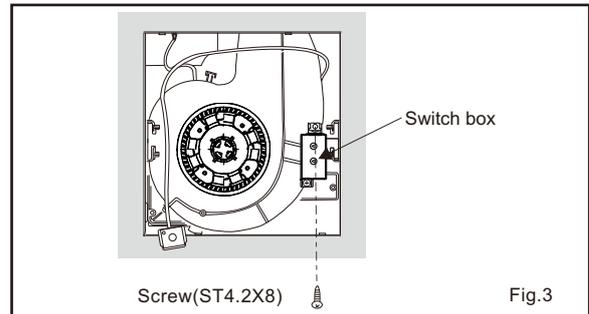
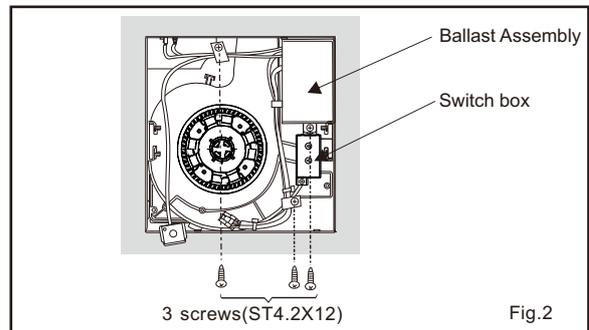
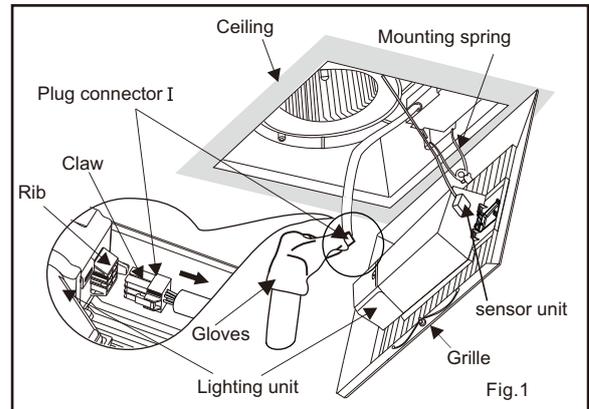
4. Take out the light lead wire assembly A from accessories, and connect to junction box. Then fix the light lead wire assembly by 3 screws (ST4.2X12), and 3 cord clips(5N, from accessories). (Fig.4)

#### IMPORTANT:

Remove the tapes from grille and springs before installation new light kit grille as below



5. Take out the new light kit grille. Remove screw (M4X8). Remove light kit cover assembly. (Fig.5)



# 5.Replacement Guide

## INSTALLATION

6. Install the night lamp and fluorescent lamps. (Fig.6)
7. Install light kit cover assembly. (Fig.7)
8. Insert the grille mounting spring on the wiring side into the slot and insert the plug connector I into the housing of the lighting unit.(Fig.8)

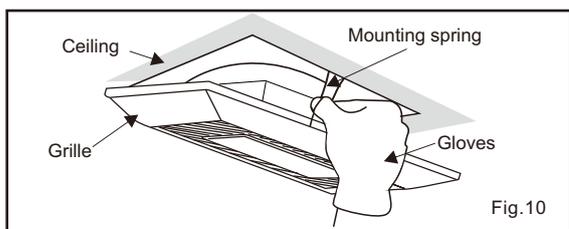
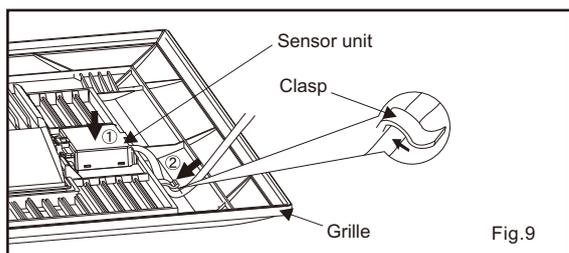
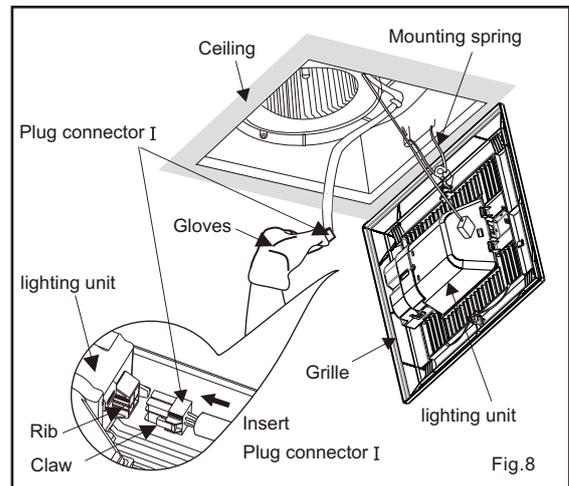
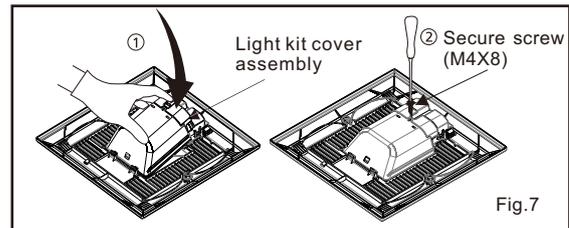
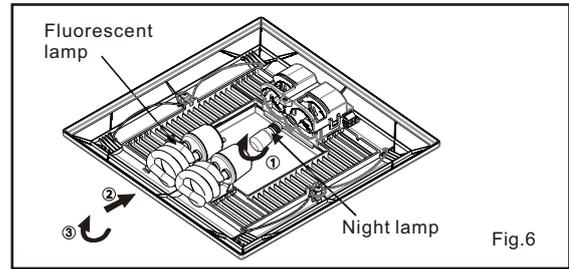
### CAUTION

- Before turn on the light, make sure the connector at the correct position. If not, the lighting can't work.
- The claw of connector must latch the rib completely. (Fig.8)

9. Insert the sensor unit into slot of the grille (position ①). Fix the sensor lead wire into the clasp (position ②). (Fig.9)
10. Insert the other mounting spring into the slot as shown and mount grille to fan body. (Fig.10)

### CAUTION

- Mount grille carefully so that lead wire of sensor unit and lighting unit is not pinched.



# 5.Replacement Guide

## MAINTENANCE(REPLACEMENT OF LAMP)

### WARNING

- ❗ Disconnect power source before working on unit.
- ❗ This is a pin type lamp base and the lamp's glass is fragile. To remove, pull out carefully.
- ❗ 4W night lamp has threaded base, Remove by turning counterclockwise.
- ❗ Make sure the temperature of lens and lighting unit has cooled down before maintenance (cleaning) or replacement of lamp.

### CAUTION

- ❗ Remove dust and dirt from light kit cover assembly and lens, before replace the lamps.

1. Remove grille by pulling down one mounting spring. Then pull down the other mounting spring. (Squeeze mounting spring and pull down carefully) (Fig.1)
2. Remove the screw as shown in step①of (Fig.2)  
Remove the light kit cover assembly as shown in step②of (Fig.2)
3. Remove the fluorescent lamps (Maxlite MLS13GU35,13W) and night lamp as shown in step①,step②and step③ of (Fig.3)
4. Install new night lamp (MAX 4W incandescent lamp) and new fluorescent lamps (Maxlite MLS13GU35,13W) as shown in step①,step②and step③of (Fig.4)
- 5.Install light kit cover assembly.(Fig.5)

