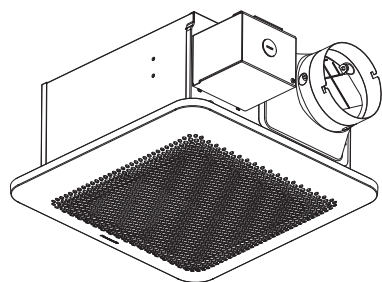
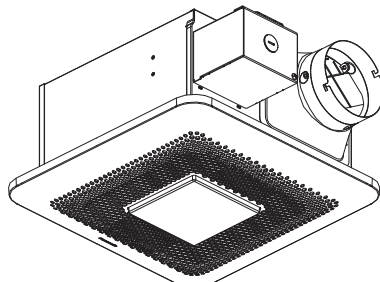


# Service Manual

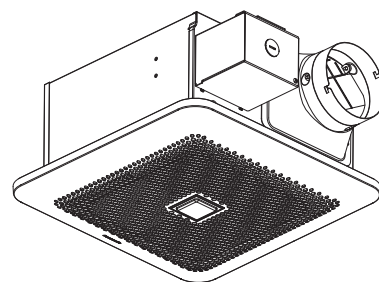
Ventilating Fan  
(North America Market)



FV-0811RF1



FV-0811RFL1



FV-0811RFM1

## ⚠ 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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| 2.Parts Identification ..... | 2~7   |
| 3.Wiring Diagram .....       | 8~9   |
| 4.Parts List .....           | 10~13 |

# 1. Specifications

---

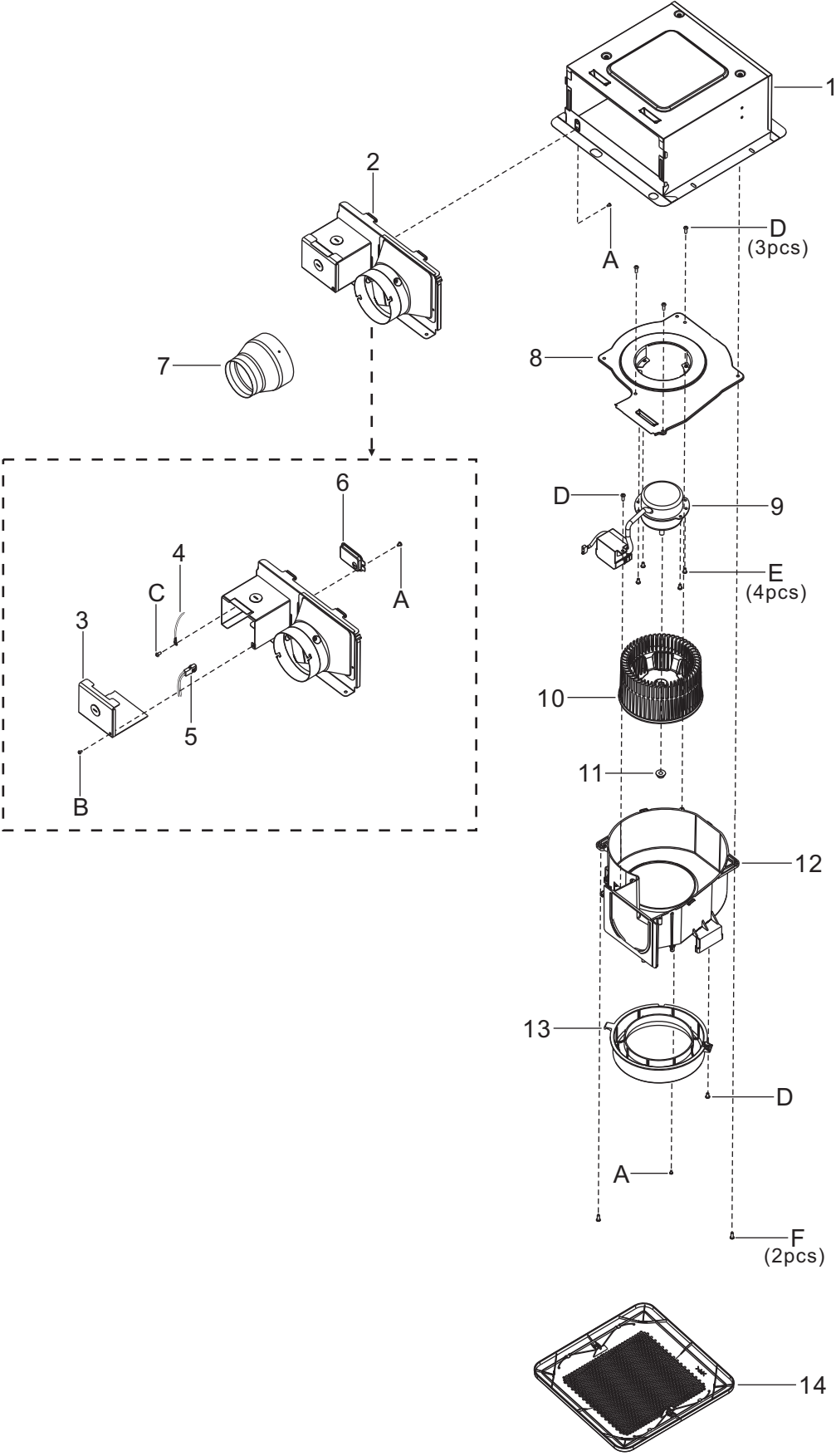
| Model No.   | Air direction | Voltage (V) | Frequency (Hz) | Duct diameter (inches) | Air volume at 0.1"WG (CFM) | Noise (sones) | Speed (rpm) | Power (W) | Weight lb.( kg) |
|-------------|---------------|-------------|----------------|------------------------|----------------------------|---------------|-------------|-----------|-----------------|
| FV-0811RF1  | Exhaust       | 120         | 60             | 3                      | 70                         | 0.6           | 1057        | 21.6      | 9.5/(4.3)       |
|             |               |             |                |                        | 100                        | 1.4           | 1249        | 27.1      |                 |
|             |               |             |                | 4                      | 80                         | <0.3          | 875         | 21.6      |                 |
|             |               |             |                |                        | 110                        | 0.8           | 975         | 26.6      |                 |
| FV-0811RFL1 | Exhaust       | 120         | 60             | 3                      | 70                         | 0.6           | 1040        | 20.3      | 10.1 (4.6)      |
|             |               |             |                |                        | 100                        | 1.5           | 1270        | 26.5      |                 |
|             |               |             |                | 4                      | 80                         | 0.4           | 899         | 20.2      |                 |
|             |               |             |                |                        | 110                        | 1.0           | 1026        | 26.1      |                 |
| FV-0811RFM1 | Exhaust       | 120         | 60             | 3                      | 70                         | 0.6           | 1057        | 21.6      | 9.9/(4.5)       |
|             |               |             |                |                        | 100                        | 1.4           | 1249        | 27.1      |                 |
|             |               |             |                | 4                      | 80                         | <0.3          | 875         | 21.6      |                 |
|             |               |             |                |                        | 110                        | 0.8           | 975         | 26.6      |                 |

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

# 2. Parts Identification

FV-0811RF1

## Main Body Section



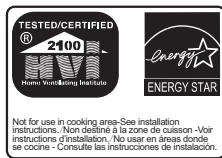
FV-0811RF1

## Main Labels



17

18



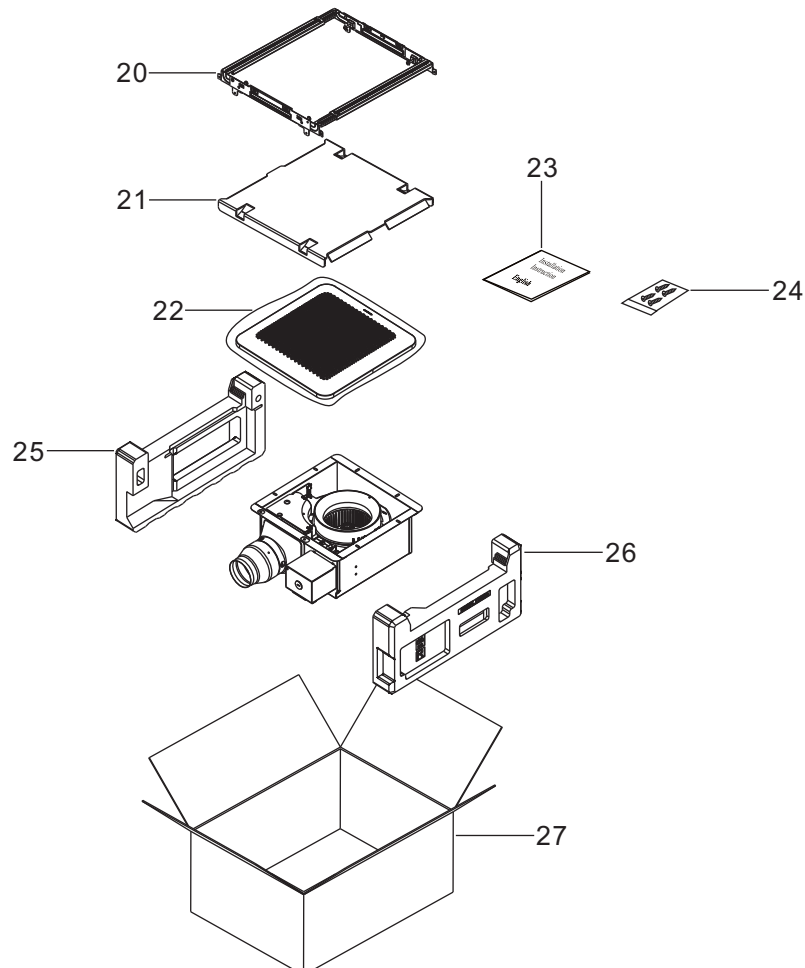
15

16

Secure screw tightly  
for ground continuity  
Vissez fermement pour la  
continuité de la mise à la terre

19

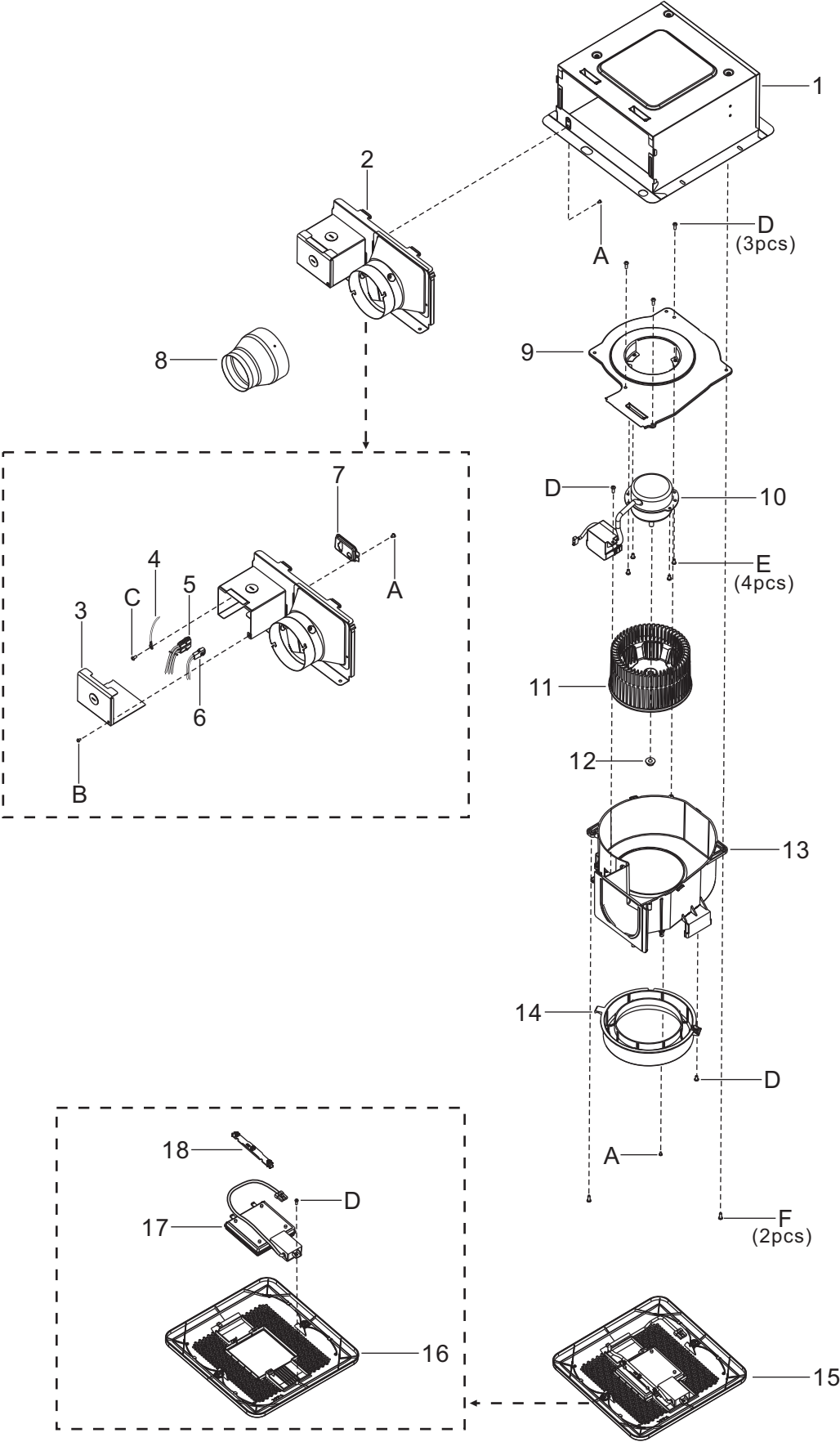
## Packing Section



# 2. Parts Identification

FV-0811RFL1

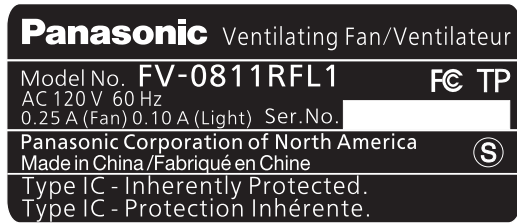
## Main Body Section



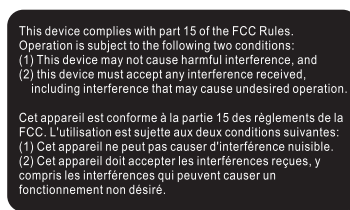
## 2. Parts Identification

FV-0811RFL1

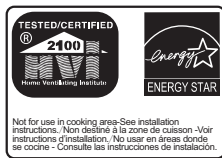
## Main Labels



19



23



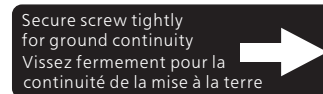
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21

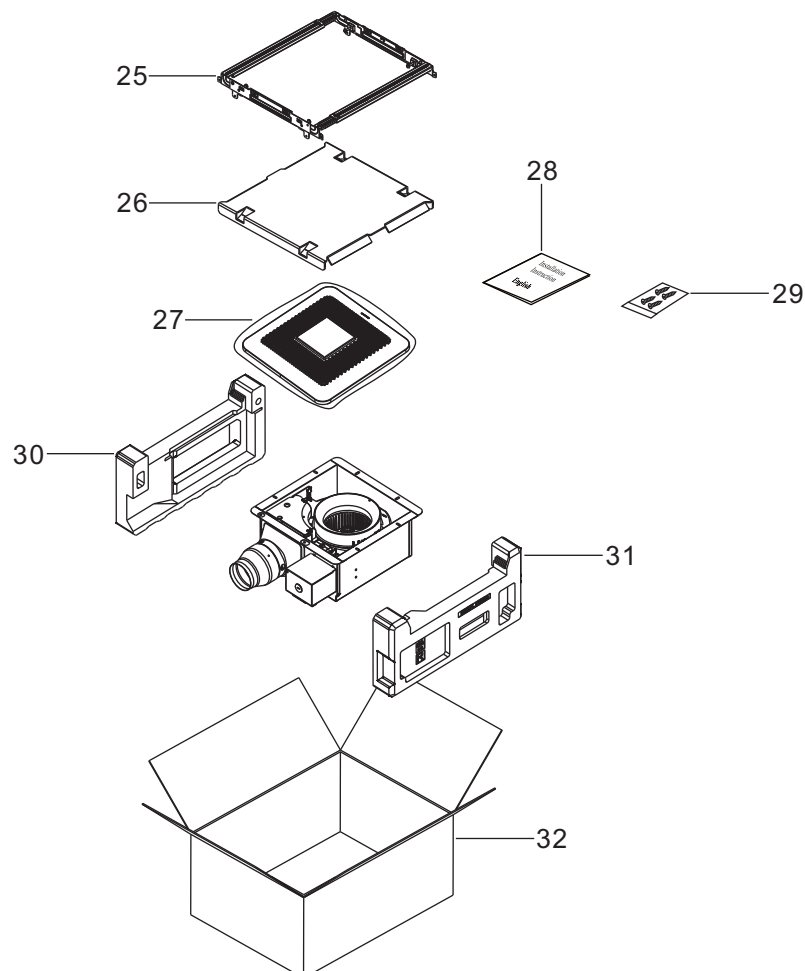


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24

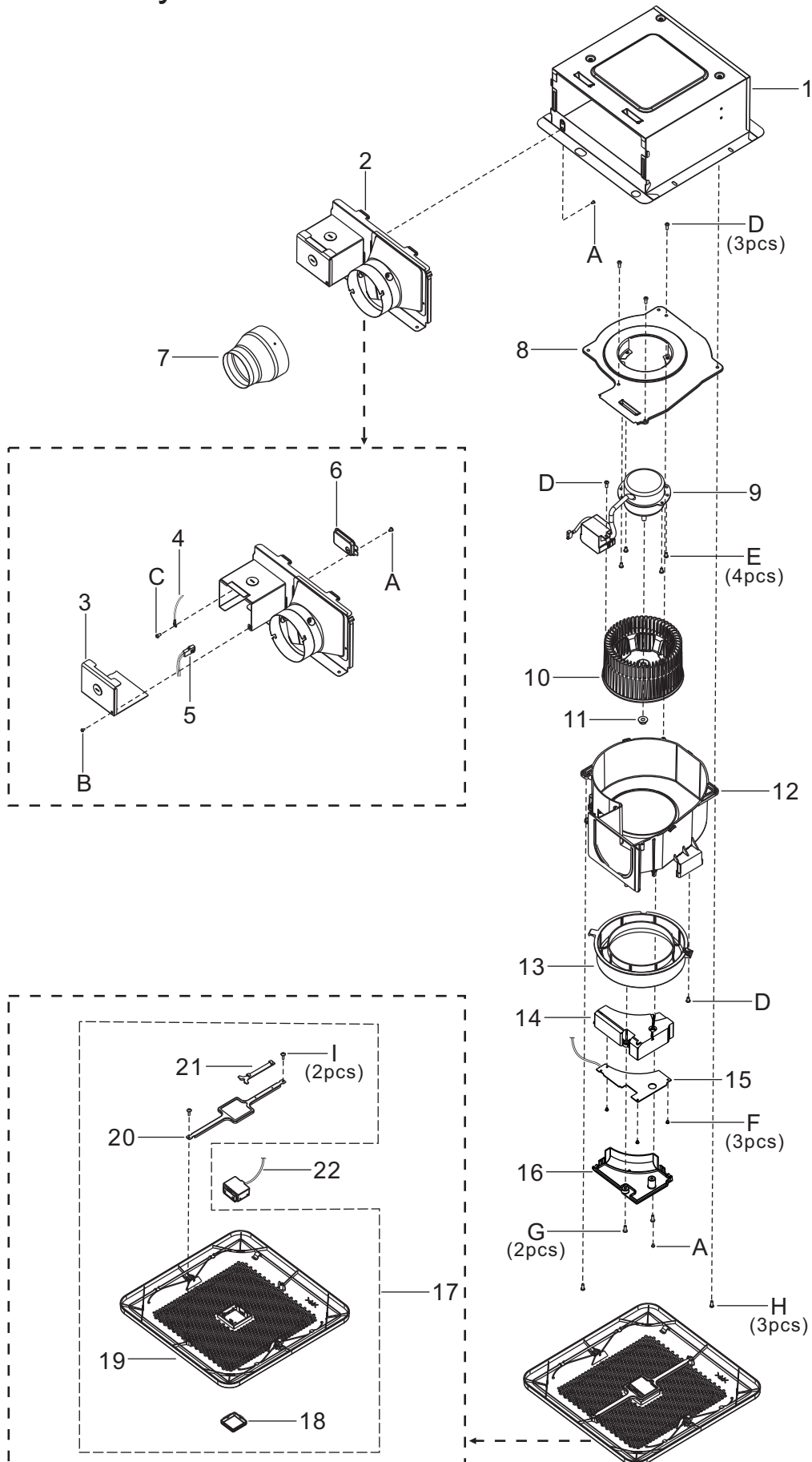
## Packing Section



## 2. Parts Identification

FV-0811RFM1

### Main Body Section



# 2. Parts Identification

FV-0811RFM1

## Main Labels



23



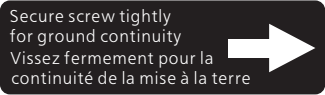
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26

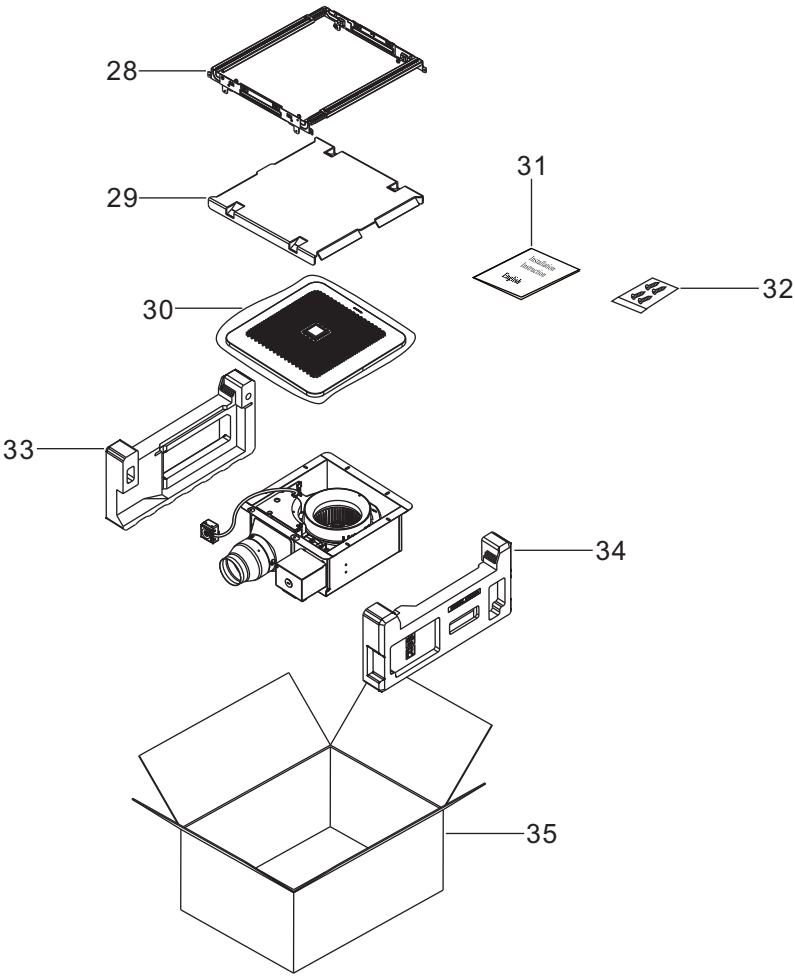


24



27

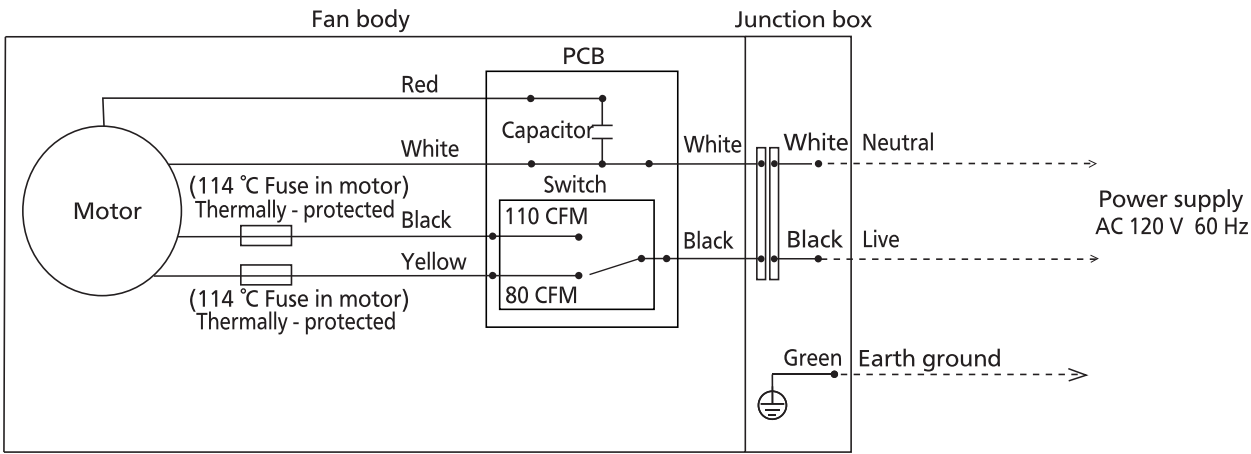
## Packing Section



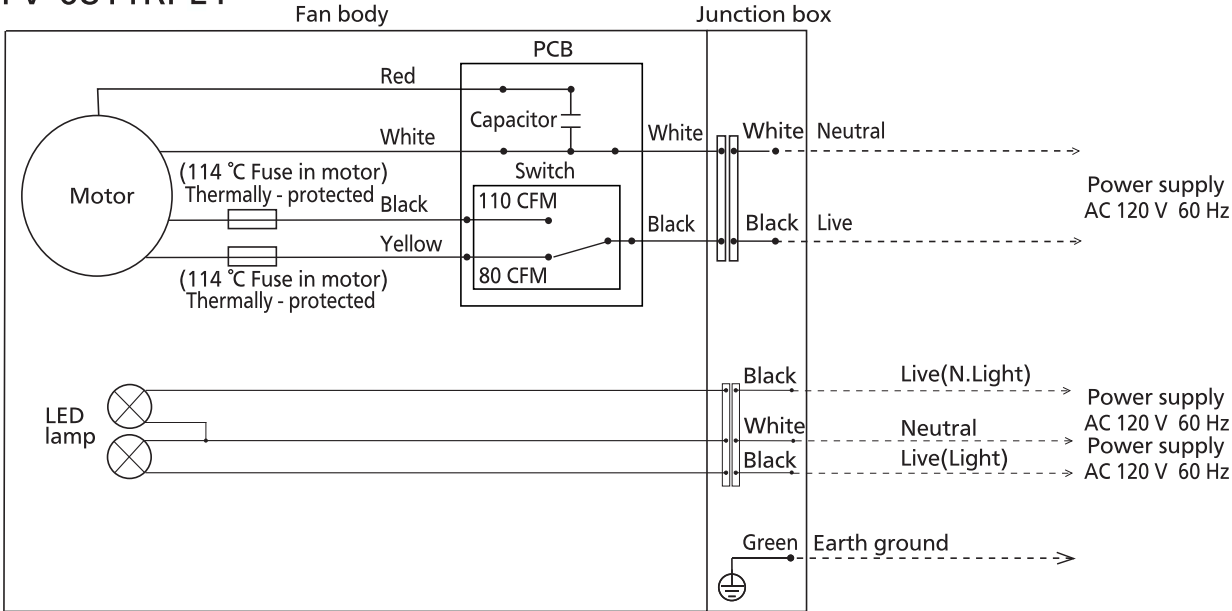


# 3. Wiring diagram

FV-0811RF1

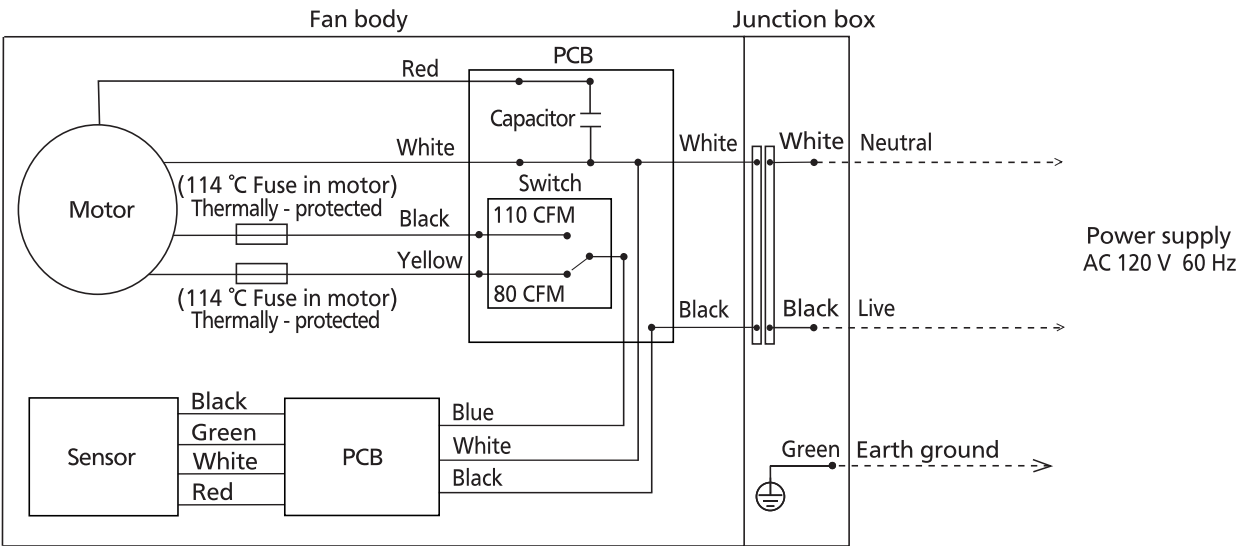


FV-0811RFL1



# 3. Wiring diagram

FV-0811RFM1



## 4. Parts List

FFV-0811RF1

### Main Body Section

| No. | Part No.    | Part Name             | Q'ty | Remark |
|-----|-------------|-----------------------|------|--------|
| 1   | FFV1600146S | Frame Assy            | 1    |        |
| 2   | FFV0000183S | Adapter Assy          | 1    | ⚠      |
| 3   | FFV2800027S | Junction Cover        | 1    |        |
| 4   | FFV3450010S | Earth Lead Wire       | 1    | ⚠      |
| 5   | FFV0900072S | Connector Assy (V)    | 1    | ⚠      |
| 6   | FFV0900052S | Connector Plate       | 1    |        |
| 7   | FFV0000038S | Adapter Connector     | 1    |        |
| 8   | FFV3702266S | Motor Support Unit    | 1    |        |
| 9   | FFV3702322S | Motor Unit            | 1    | ⚠      |
| 10  | FFV0400119S | Blade                 | 1    |        |
| 11  | FFV7020021S | Nut                   | 1    |        |
| 12  | FFV0790115S | Casing Assembly       | 1    |        |
| 13  | FFV4300160S | Orifice               | 1    |        |
| 14  | FFV3400159S | Louver Assy           | 1    |        |
| A   | FFV7000108S | Truss Tap Screw       | 3    |        |
| B   | FFV7000064S | Bind Screw            | 1    |        |
| C   | FFV7000203S | Earth Lead Wire Screw | 1    | ⚠      |
| D   | FFV7000089S | Truss Tap Screw       | 5    |        |
| E   | FFV7000074S | Truss Tap Screw       | 4    |        |
| F   | FFV7000080S | Plus Bind Screw       | 2    |        |

### Main Labels

| No. | Part No.    | Part Name       | Q'ty | Remark |
|-----|-------------|-----------------|------|--------|
| 15  | FFV4020942S | Name Plate      | 1    |        |
| 16  | FFV0810011S | Caution Label 1 | 1    |        |
| 17  | FFV2260003S | UL Mark         | 1    |        |
| 18  | FFV0810010S | Caution Label   | 1    |        |
| 19  | FFV6730045S | Warning Label   | 1    |        |

### Packing Section

| No. | Part No.    | Part Name                 | Q'ty | Remark                            |
|-----|-------------|---------------------------|------|-----------------------------------|
| 20  | FFV2230024S | Hanger Assembly           | 1    |                                   |
| 21  | FFV4710381S | Louver Case Assy          | 1    |                                   |
| 22  | FFV4650016S | Poly Cover                | 1    |                                   |
| 23  | FFV2540225S | Installation Instructions | 1    | English, For CA Market/USA Market |
| 24  | FFV0010238S | Accessory A               | 1    |                                   |
| 25  | FFV4710439S | Left Pad                  | 1    |                                   |
| 26  | FFV4710440S | Right Pad                 | 1    |                                   |
| 27  | FFV9001386S | Packing Case              | 1    |                                   |

## 4. Parts List

FFV-0811RFL1

### Main Body Section

| No. | Part No.    | Part Name             | Q'ty | Remark |
|-----|-------------|-----------------------|------|--------|
| 1   | FFV1600146S | Frame Assy            | 1    |        |
| 2   | FFV0000184S | Adapter Assy          | 1    | ⚠      |
| 3   | FFV2800027S | Junction Cover        | 1    |        |
| 4   | FFV3450010S | Earth Lead Wire       | 1    | ⚠      |
| 5   | FFV0900059S | Connector Assembly(V) | 1    | ⚠      |
| 6   | FFV0900072S | Connector Assy (V)    | 1    | ⚠      |
| 7   | FFV0900074S | Connector Plate       | 1    |        |
| 8   | FFV0000038S | Adapter Connector     | 1    |        |
| 9   | FFV3702266S | Motor Support Unit    | 1    |        |
| 10  | FFV3702323S | Motor Unit            | 1    | ⚠      |
| 11  | FFV0400119S | Blade                 | 1    |        |
| 12  | FFV7020021S | Nut                   | 1    |        |
| 13  | FFV0790115S | Casing Assembly       | 1    |        |
| 14  | FFV4300160S | Orifice               | 1    |        |
| 15  | FFV3400160S | Louver Section        | 1    | ⚠      |
| 16  | FFV3400161S | Louver Unit           | 1    |        |
| 17  | FFV3400148S | Led Unit              | 1    | ⚠      |
| 18  | FFV2520040S | Insulation Plate      | 1    |        |
| A   | FFV7000108S | Truss Tap Screw       | 3    |        |
| B   | FFV7000064S | Bind Screw            | 1    |        |
| C   | FFV7000203S | Earth Lead Wire Screw | 1    | ⚠      |
| D   | FFV7000089S | Truss Tap Screw       | 6    |        |
| E   | FFV7000074S | Truss Tap Screw       | 4    |        |
| F   | FFV7000080S | Plus Bind Screw       | 2    |        |

### Main Labels

| No. | Part No.    | Part Name       | Q'ty | Remark |
|-----|-------------|-----------------|------|--------|
| 19  | FFV4020943S | Name Plate      | 1    |        |
| 20  | FFV0810011S | Caution Label 1 | 1    |        |
| 21  | FFV2260003S | UL Mark         | 1    |        |
| 22  | FFV0810010S | Caution Label   | 1    |        |
| 23  | FFV6730109S | FCC Label       | 1    |        |
| 24  | FFV6730045S | Warning Label   | 1    |        |

### Packing Section

| No. | Part No.    | Part Name                 | Q'ty | Remark                           |
|-----|-------------|---------------------------|------|----------------------------------|
| 25  | FFV2230024S | Hanger Assembly           | 1    |                                  |
| 26  | FFV4710381S | Louver Case Assy          | 1    |                                  |
| 27  | FFV4650016S | Poly Cover                | 1    |                                  |
| 28  | FFV2540228S | Installation Instructions | 1    | English,For CA Market/USA Market |
| 29  | FFV0010238S | Accessory A               | 1    |                                  |
| 30  | FFV4710439S | Left Pad                  | 1    |                                  |
| 31  | FFV4710440S | Right Pad                 | 1    |                                  |
| 32  | FFV9001387S | Packing Case              | 1    |                                  |

## 4. Parts List

FFV-0811RFM1

### Main Body Section

| No. | Part No.    | Part Name             | Q'ty | Remark |
|-----|-------------|-----------------------|------|--------|
| 1   | FFV1600146S | Frame Assy            | 1    |        |
| 2   | FFV0000183S | Adapter Assy          | 1    | ⚠      |
| 3   | FFV2800027S | Junction Cover        | 1    |        |
| 4   | FFV3450010S | Earth Lead Wire       | 1    | ⚠      |
| 5   | FFV0900072S | Connector Assy (V)    | 1    | ⚠      |
| 6   | FFV0900052S | Connector Plate       | 1    |        |
| 7   | FFV0000038S | Adapter Connector     | 1    |        |
| 8   | FFV3702266S | Motor Support Unit    | 1    |        |
| 9   | FFV3702324S | Motor Unit            | 1    | ⚠      |
| 10  | FFV0400119S | Blade                 | 1    |        |
| 11  | FFV7020021S | Nut                   | 1    |        |
| 12  | FFV0790115S | Casing Assembly       | 1    |        |
| 13  | FFV4300160S | Orifice               | 1    |        |
| 14  | FFV3740018S | Main PCB Box          | 1    |        |
| 15  | FFV3740019S | Main PCB Assembly     | 1    | ⚠      |
| 16  | FFV3740020S | Main PCB Box Cover    | 1    |        |
| 17  | FFV3400162S | Louver Section        | 1    |        |
| 18  | FFV2220051S | Sensor Cover          | 1    |        |
| 19  | FFV3400163S | Louver Unit           | 1    |        |
| 20  | FFV5560051S | Spring Stopper        | 1    |        |
| 21  | FFV2520025S | Insulation Plate      | 1    |        |
| 22  | FFV5500045S | Sensor Assembly       | 1    | ⚠      |
| A   | FFV7000108S | Truss Tap Screw       | 3    |        |
| B   | FFV7000064S | Bind Screw            | 1    |        |
| C   | FFV7000203S | Earth Lead Wire Screw | 1    | ⚠      |
| D   | FFV7000089S | Truss Tap Screw       | 5    |        |
| E   | FFV7000074S | Truss Tap Screw       | 4    |        |
| F   | FFV7000145S | Truss Tap Screw       | 3    |        |
| G   | XTT4+14CFJ  | Truss Tap Screw       | 2    |        |
| H   | FFV7000080S | Plus Bind Screw       | 2    |        |
| I   | FFV7000140S | Pan Tap Screw         | 2    |        |

### Main Labels

| No. | Part No.    | Part Name       | Q'ty | Remark |
|-----|-------------|-----------------|------|--------|
| 23  | FFV4020944S | Name Plate      | 1    |        |
| 24  | FFV0810011S | Caution Label 1 | 1    |        |
| 25  | FFV2260003S | UL Mark         | 1    |        |
| 26  | FFV0810010S | Caution Label   | 1    |        |
| 27  | FFV6730045S | Warning Label   | 1    |        |

## 4. Parts List

FV-0811RFM1

### Packing Section

| No. | Part No.    | Part Name                 | Q'ty | Remark                           |
|-----|-------------|---------------------------|------|----------------------------------|
| 28  | FFV2230024S | Hanger Assembly           | 1    |                                  |
| 29  | FFV4710381S | Louver Case Assy          | 1    |                                  |
| 30  | FFV4650016S | Poly Cover                | 1    |                                  |
| 31  | FFV2540225S | Installation Instructions | 1    | English,For CA Market/USA Market |
| 32  | FFV0010238S | Accessory A               | 1    |                                  |
| 33  | FFV4710439S | Left Pad                  | 1    |                                  |
| 34  | FFV4710440S | Right Pad                 | 1    |                                  |
| 35  | FFV9001388S | Packing Case              | 1    |                                  |