



# SPLIT TYPE ROOM AIR CONDITIONER

## CEILING type (50Hz)

# SERVICE MANUAL



### Models

| Indoor unit | Outdoor unit |
|-------------|--------------|
| RY-54FA     | RO-54FA      |
| RY-54UA     | RO-54UA      |

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# SPECIFICATIONS

|                  |      |         |                   |
|------------------|------|---------|-------------------|
| TYPE             |      | COOLING | COOLING & HEATING |
| INDOOR UNIT      |      | RY-54FA | RY-54UA           |
| OUTDOOR UNIT     |      | RO-54FA | RO-54UA           |
| COOLING CAPACITY | (kW) | 14.5    |                   |
| HEATING CAPACITY | (kW) | —       | 16.5              |

## ELECTRICAL DATA

|                  |         |         |        |
|------------------|---------|---------|--------|
| POWER SOURCE     | (V)     | 400     |        |
| FREQUENCY        |         | 3ø 50Hz |        |
| RUNNING CURRENT  | (A)     | COOLING | 9.5    |
|                  |         | HEATING | — 9.5  |
| INPUT WATTS      | (kW)    | COOLING | 5.16   |
|                  |         | HEATING | — 5.30 |
| E.E.R.           | (kW/kW) | COOLING | 2.81   |
|                  |         | HEATING | — 3.11 |
| MOISTURE REMOVAL | (ℓ /hr) | 6.0     |        |
| AIR CIRCULATION  | (m³/hr) | 2,200   |        |

## COMPRESSOR

|                |                                                                  |
|----------------|------------------------------------------------------------------|
| TYPE           | Hermetic type, 2 poles, 3 phase,<br>Induced by condenser, Scroll |
| DISCRIMINATION | BN65YEAMT                                                        |

## FAN MOTOR

|              |                    |               |  |
|--------------|--------------------|---------------|--|
| POWER SOURCE | (V)                | 400           |  |
| INDOOR UNIT  | DISCRIMINATION     | MFA-45DZM     |  |
|              | HI-SPEED (r.p.m.)  | 1,250         |  |
|              | MED-SPEED (r.p.m.) | 1,150         |  |
|              | LO-SPEED (r.p.m.)  | 1,000         |  |
| OUTDOOR UNIT | DISCRIMINATION     | MFB-30PTT x 2 |  |
|              | HI-SPEED (r.p.m.)  | 780           |  |

## DIMENSIONS

|              |           |      |                   |  |
|--------------|-----------|------|-------------------|--|
| INDOOR UNIT  | H x W x D | (mm) | 240 x 1,660 x 700 |  |
| OUTDOOR UNIT | H x W x D | (mm) | 1,290 x 900 x 330 |  |

## WEIGHT

|              |             |      |           |           |
|--------------|-------------|------|-----------|-----------|
| INDOOR UNIT  | GROSS / NET | (kg) | 62 / 49   |           |
| OUTDOOR UNIT | GROSS / NET | (kg) | 121 / 114 | 125 / 118 |

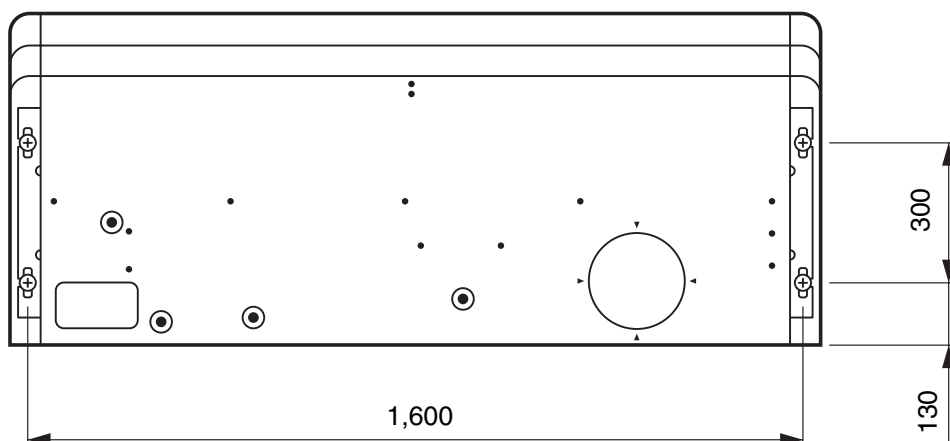
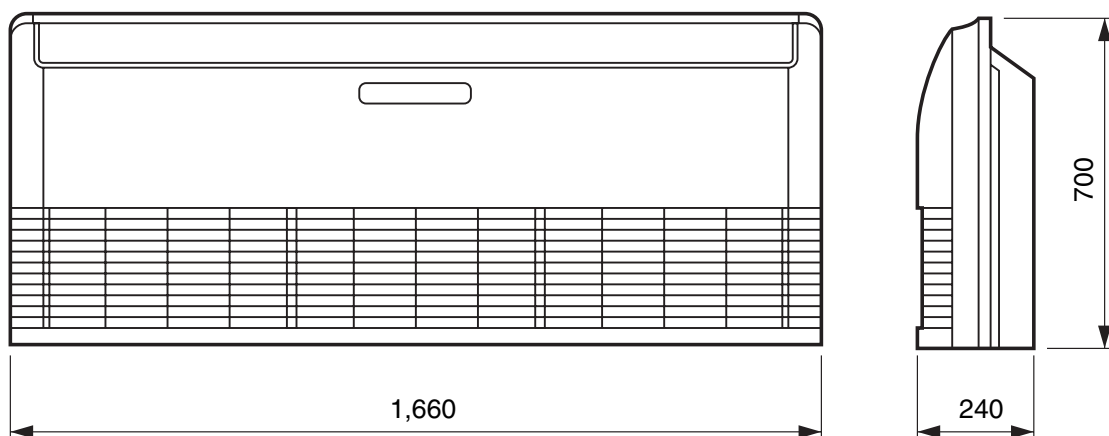
## REFRIGERANT AMOUNT (R410A)

|                    |             |      |          |         |
|--------------------|-------------|------|----------|---------|
| FULL CHARGE AMOUNT | PIPE LENGTH | 20 m | 3,300 g  | 3,500 g |
|                    |             | 25 m | 3,500 g  | 3,700 g |
|                    |             | 30 m | 3,700 g  | 3,900 g |
|                    |             | 40 m | 4,100 g  | 4,300 g |
|                    |             | 50 m | 4,500 g  | 4,700 g |
| ADDITIONAL CHARGE  |             |      | 40 g / m |         |

# DIMENSIONS

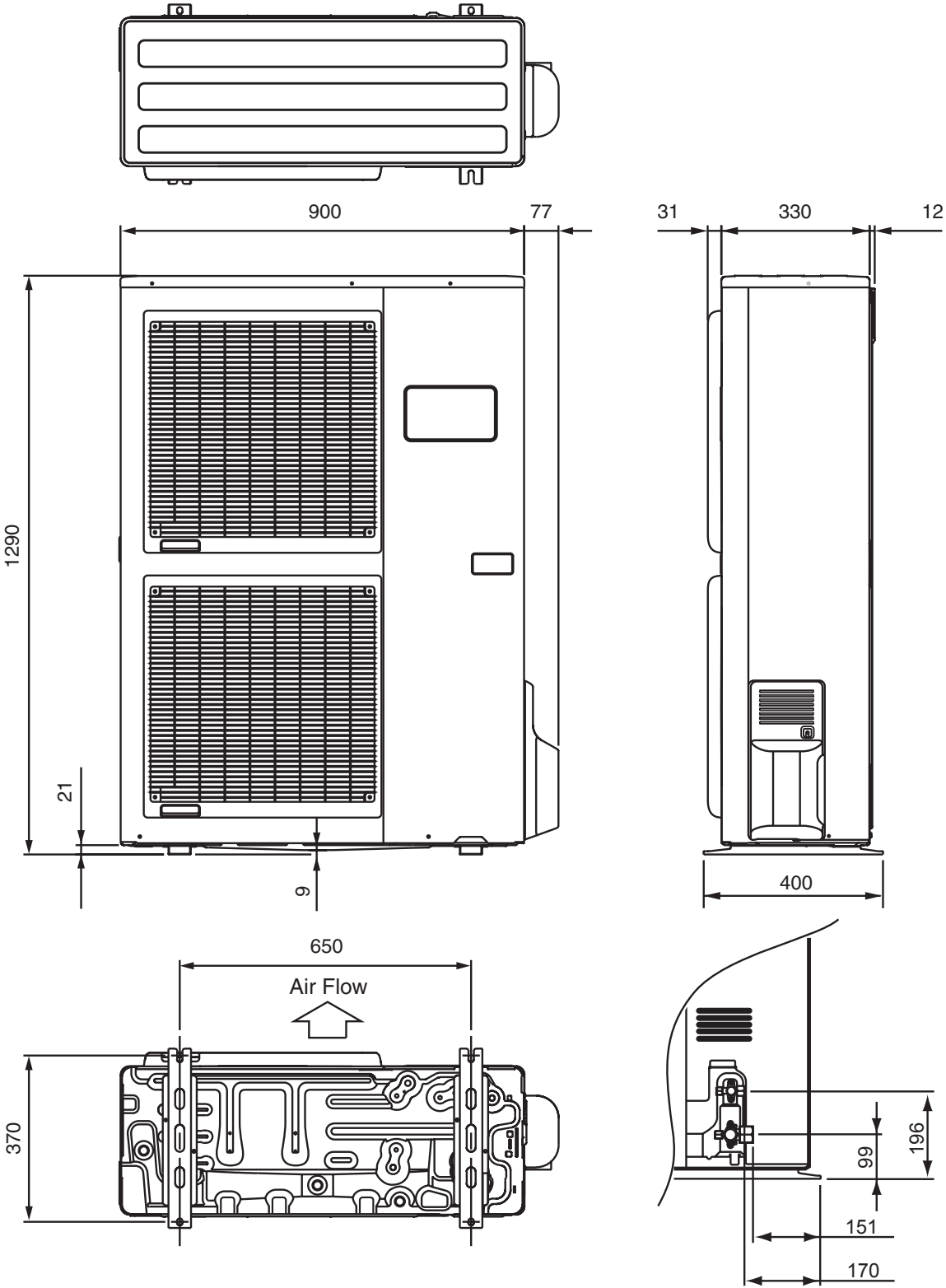
Models : RY-54FA  
RY-54UA

(Unit : mm)



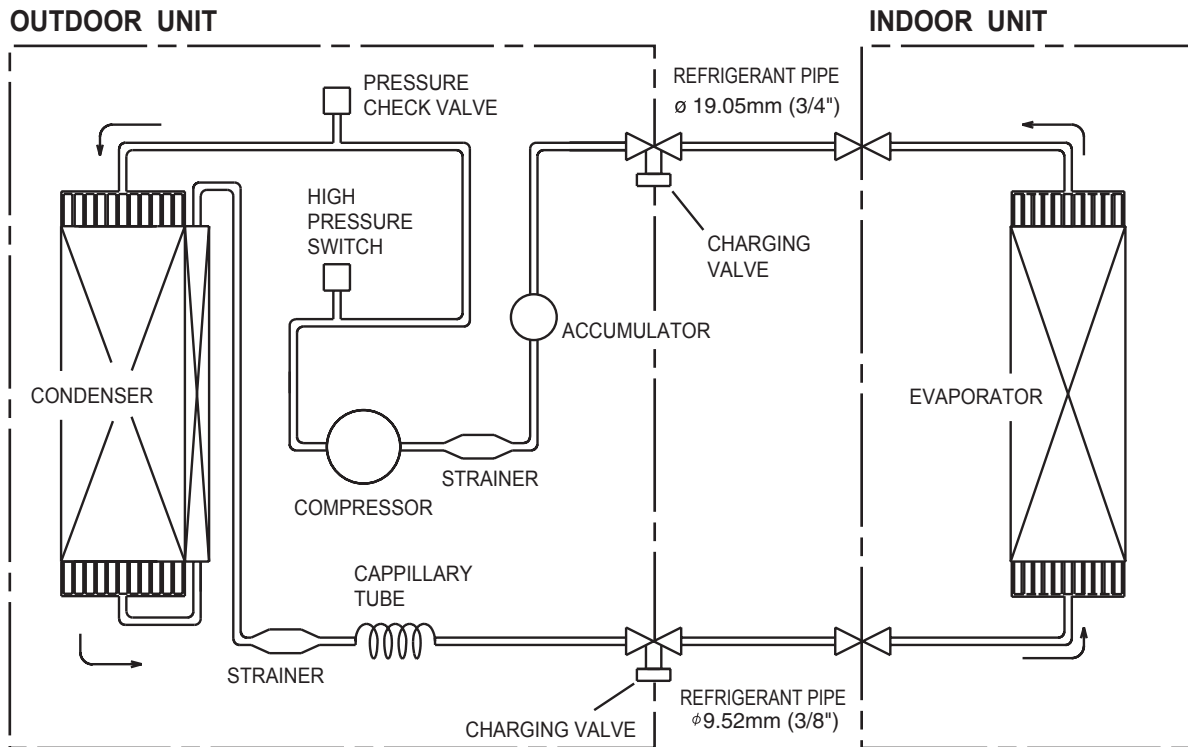
Models : RO-54FA  
RO-54UA

(Unit : mm)

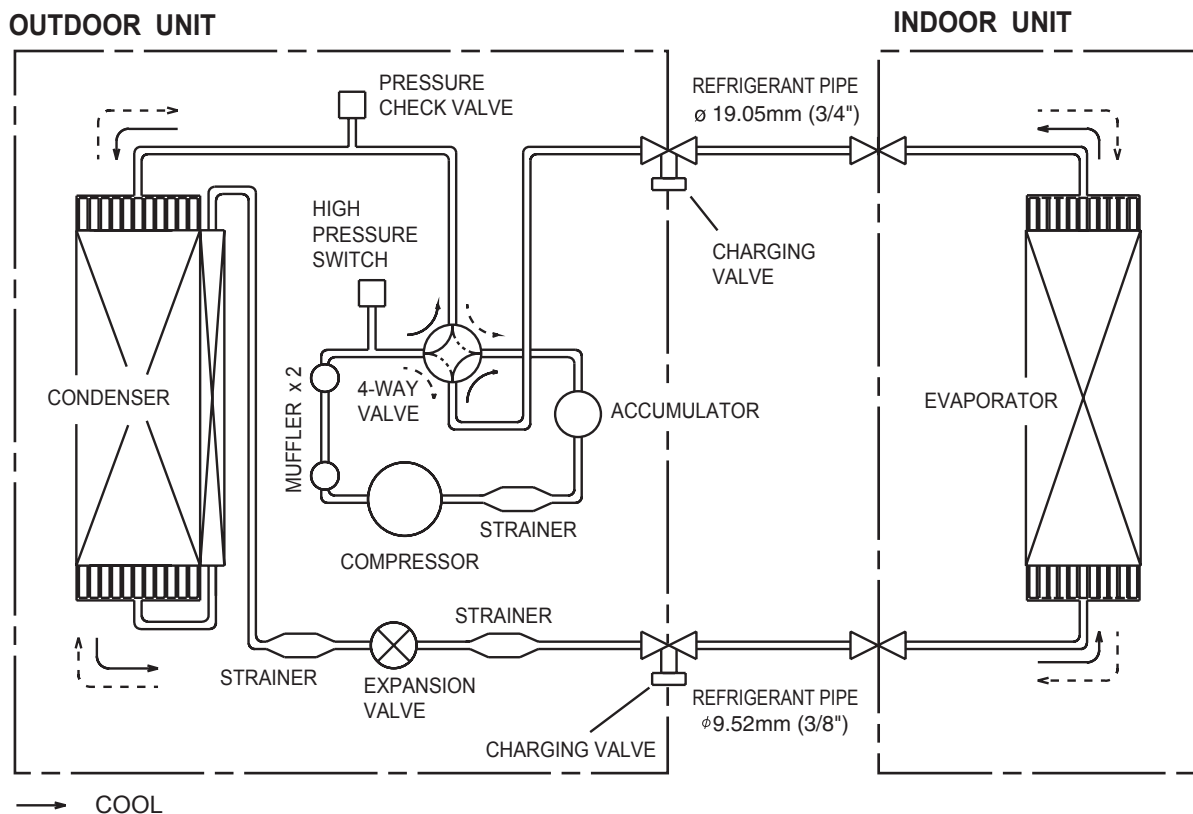


# REFRIGERANT SYSTEM DIAGRAM

**Models : RY-54FA / RO-54FA**

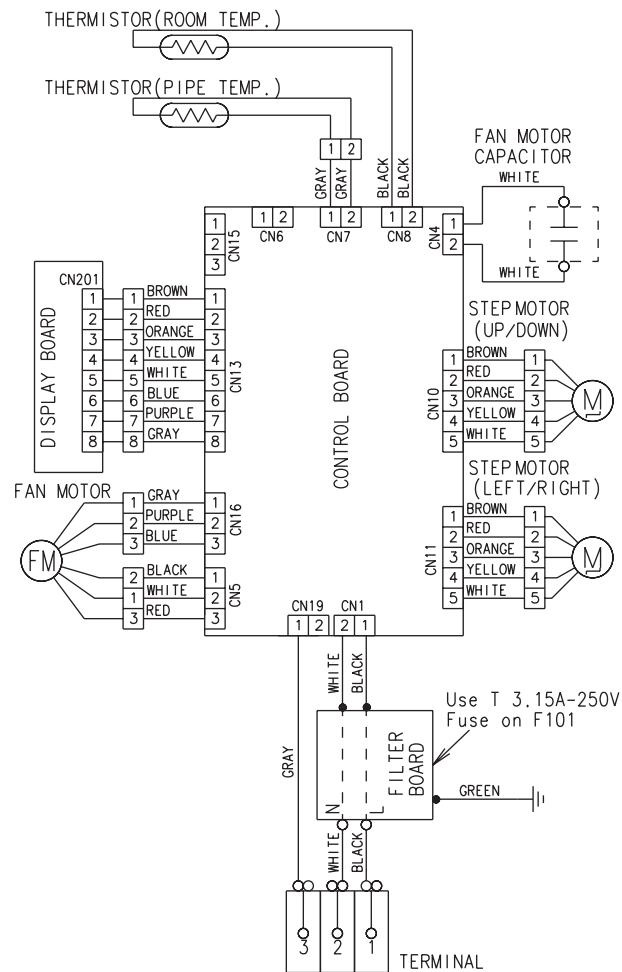


**Models : RY-54UA / RO-54UA**

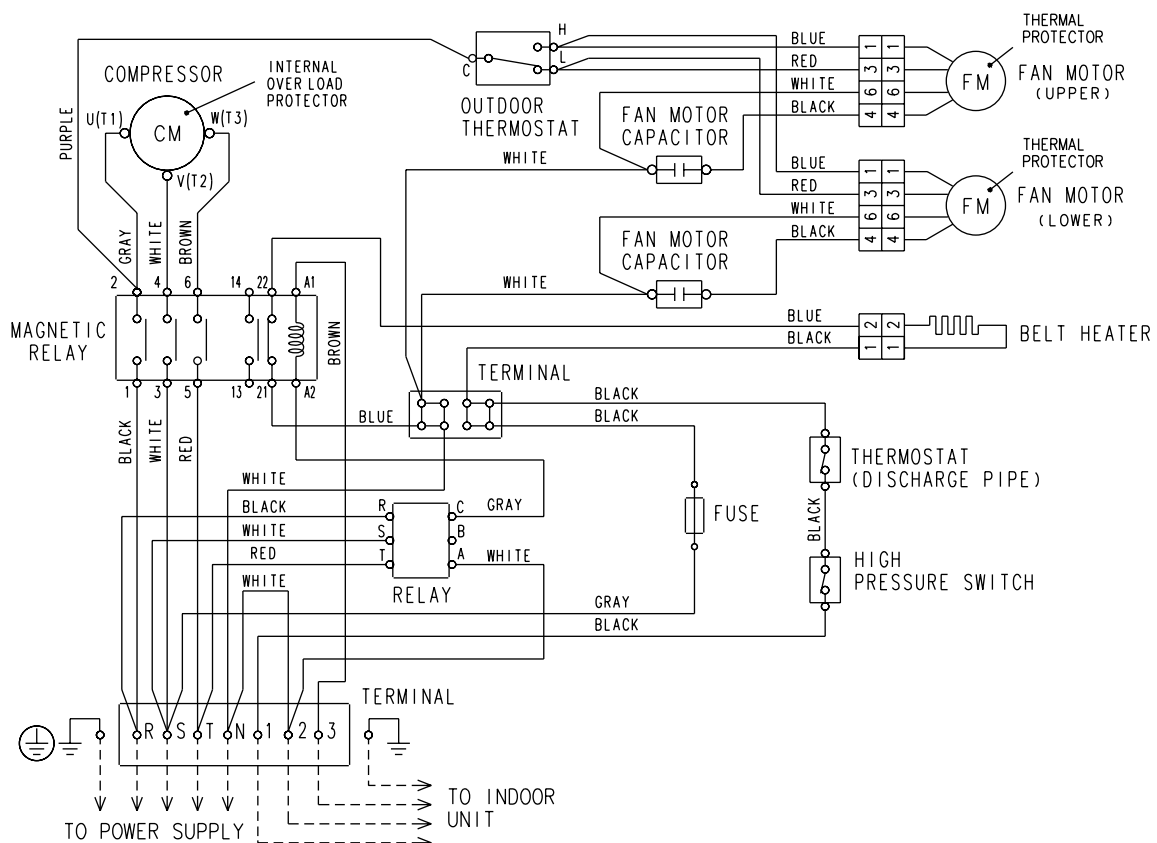


# CIRCUIT DIAGRAM

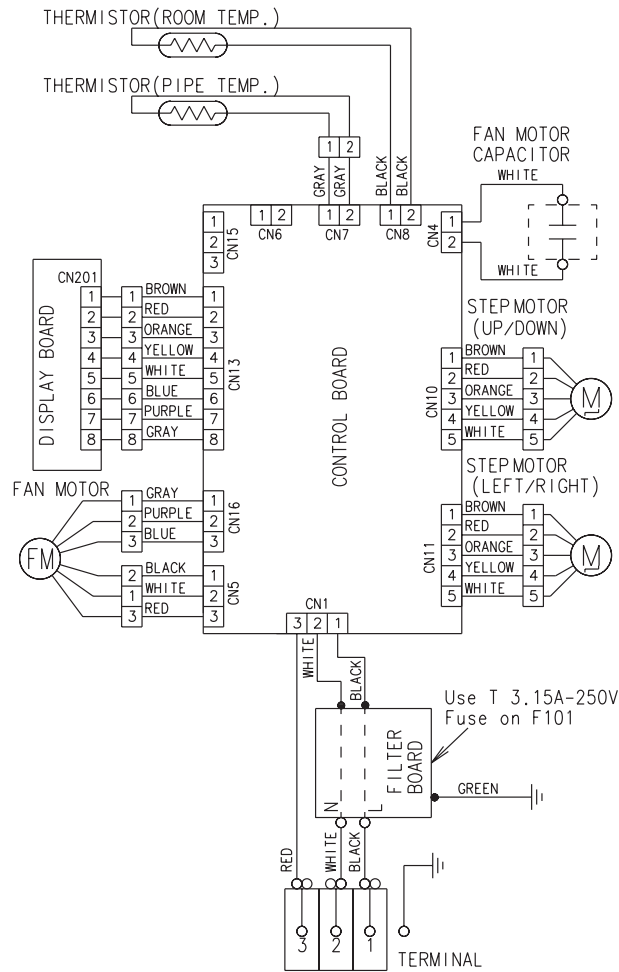
## Model : RY-54FA



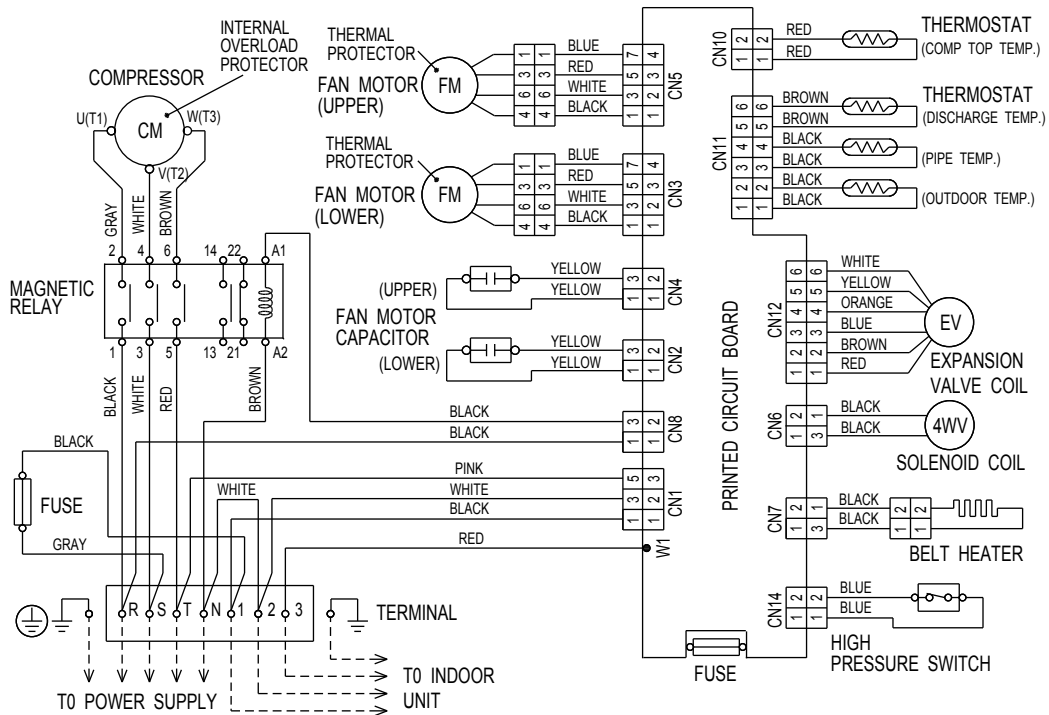
## Model : RO-54FA



## Model : RY-54UA



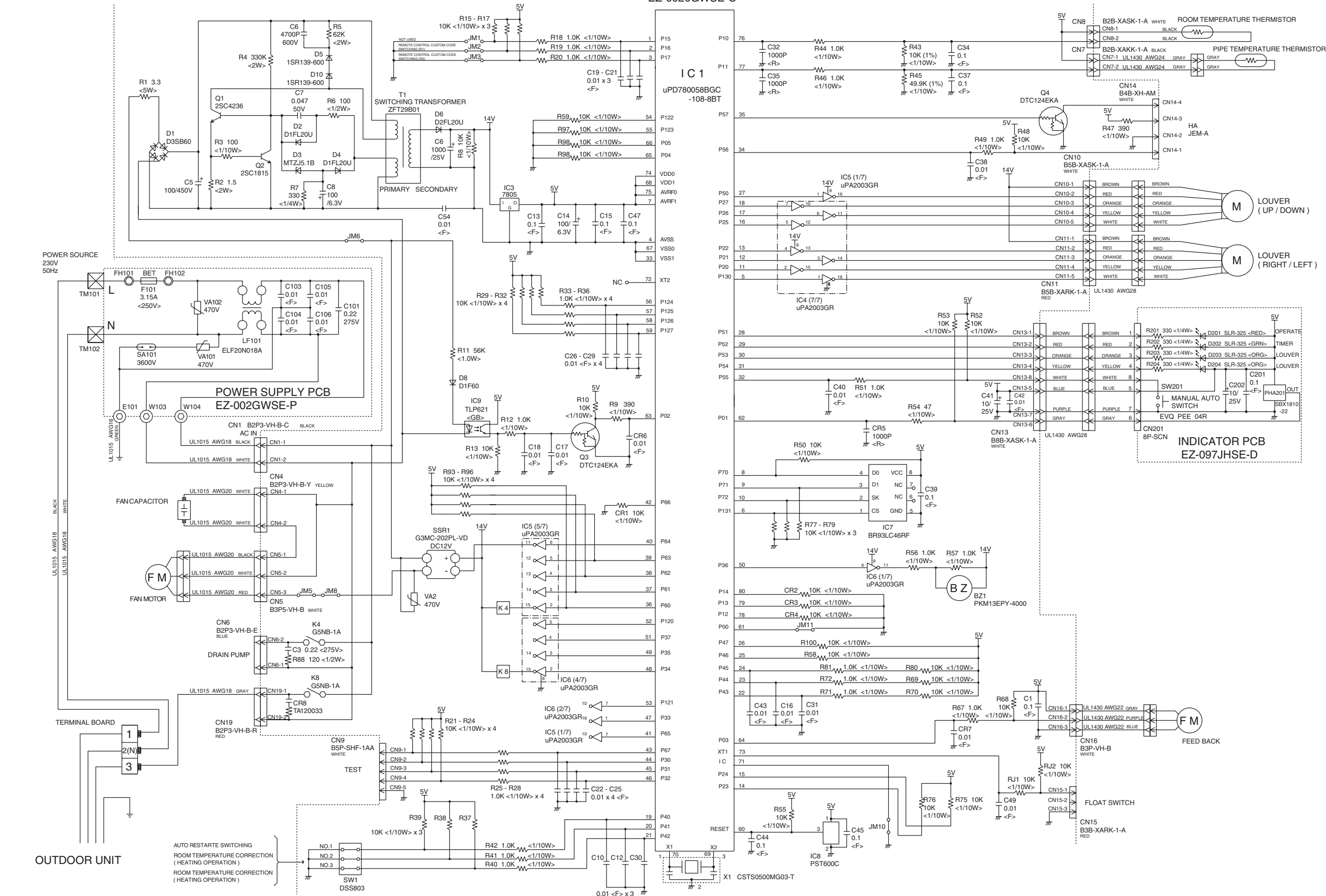
## Model : RO-54UA



INDOOR PCB CIRCUIT DIAGRAM

Models : RY-54FA

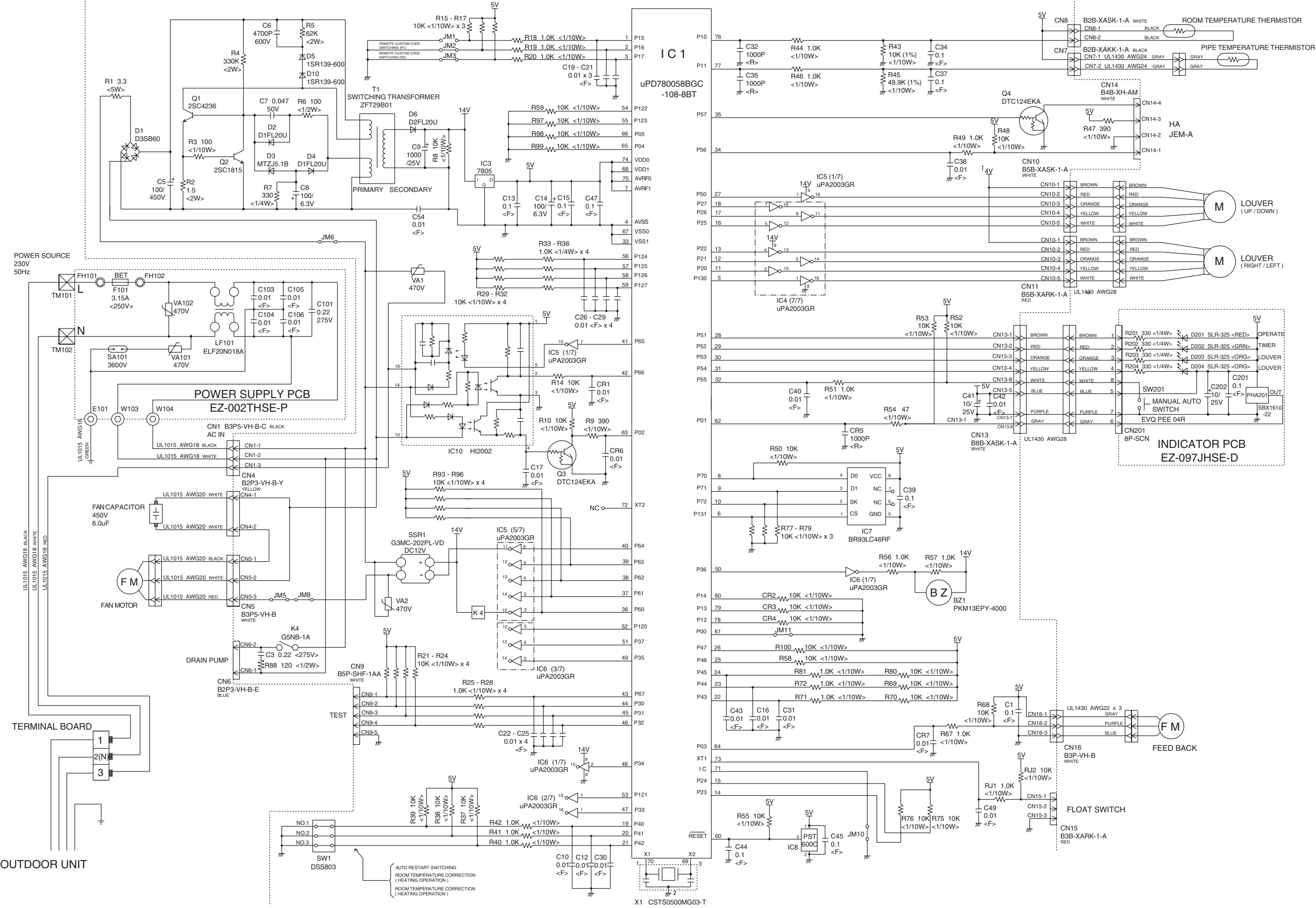
CONT ROLLER PCB ASSEMBLY ( MAIN PCB )  
EZ-0020GWSE-C



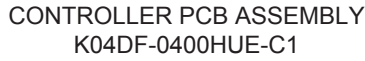


Models : RY-54UA

CONTROLLER PCB ASSEMBLY ( MAIN PCB )  
EZ-0030GHSE-C



**Models : RO-54UA**



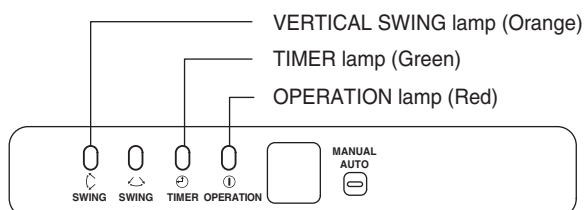
|       | Function                                              | on               | off         |
|-------|-------------------------------------------------------|------------------|-------------|
| SW1-1 | Expansion valve first pulse switching for long piping | Long piping mode | Normal mode |
| SW1-2 | Spare                                                 | -                | -           |
| SW1-3 | Spare                                                 | -                | -           |

# ERROR CONTENTS

## 1. INDOOR UNIT

Operation can be checked by lighting and flashing of the display section OPERATION, TIMER, and VERTICAL SWING lamps.

Perform judgment in accordance with the following.



### TEST RUNNING

When the air conditioner is run by pressing the remote control unit test run button, the OPERATION, TIMER, and VERTICAL SWING lamps flash slowly at the same time.

### ERROR

The OPERATION, TIMER, and VERTICAL SWING lamps operate as follows according to the error contents.

| OPERATION lamp (RED) | TIMER lamp (GREEN) | SWING lamp (ORANGE) | Error contents                                                                             |
|----------------------|--------------------|---------------------|--------------------------------------------------------------------------------------------|
| ○                    | ○                  | ×                   | Indoor EEPROM abnormal                                                                     |
| ○                    | ○                  | ○                   | Outdoor EEPROM abnormal                                                                    |
| (2 times) ●          | ○                  | ×                   | Indoor room temperature sensor open                                                        |
| (2 times) ●          | ○                  | ○                   | Indoor room temperature sensor short-circuited                                             |
| (3 times) ●          | ○                  | ×                   | Indoor heat exchanger temperature sensor open                                              |
| (3 times) ●          | ○                  | ○                   | Indoor heat exchanger temperature sensor short-circuited                                   |
| (4 times) ●          | ○                  | ×                   | Float switch operated                                                                      |
| (5 times) ●          | ○                  | ×                   | Indoor signal abnormal                                                                     |
| (5 times) ●          | ○                  | ○                   | Outdoor signal abnormal                                                                    |
| (6 times) ●          | ○                  | ×                   | Indoor fan abnormal                                                                        |
| ○                    | (2 times) ●        | ×                   | Outdoor power source connection abnormal                                                   |
| ○                    | (3 times) ●        | ×                   | Outdoor heat exchanger temperature sensor open                                             |
| ○                    | (3 times) ●        | ○                   | Outdoor heat exchanger temperature sensor short-circuited                                  |
| ○                    | (4 times) ●        | ×                   | Outdoor temperature sensor open                                                            |
| ○                    | (4 times) ●        | ○                   | Outdoor temperature sensor short-circuited                                                 |
| ○                    | (5 times) ●        | ×                   | Outdoor discharge pipe temperature sensor or compressor temperature sensor open            |
| ○                    | (5 times) ●        | ○                   | Outdoor discharge pipe temperature sensor or compressor temperature sensor short-circuited |
| ○                    | (6 times) ●        | ×                   | Outdoor high pressure abnormal                                                             |
| ○                    | (7 times) ●        | ×                   | Outdoor discharge pipe temperature or compressor temperature sensor abnormal               |

○ : 0.1s ON/0.1s OFF (flash)    × : OFF

● : 0.5s ON/0.5s OFF (flash)

## 2. OUTDOOR UNIT LEDs

### Heat & Cool model (reverse cycle) only

When a malfunction occurs in the outdoor unit, the LEDs on the circuit board light to indicate the error. Refer to the following table for the description of each error according to the LEDs.

#### LED layout

LED2 LED1



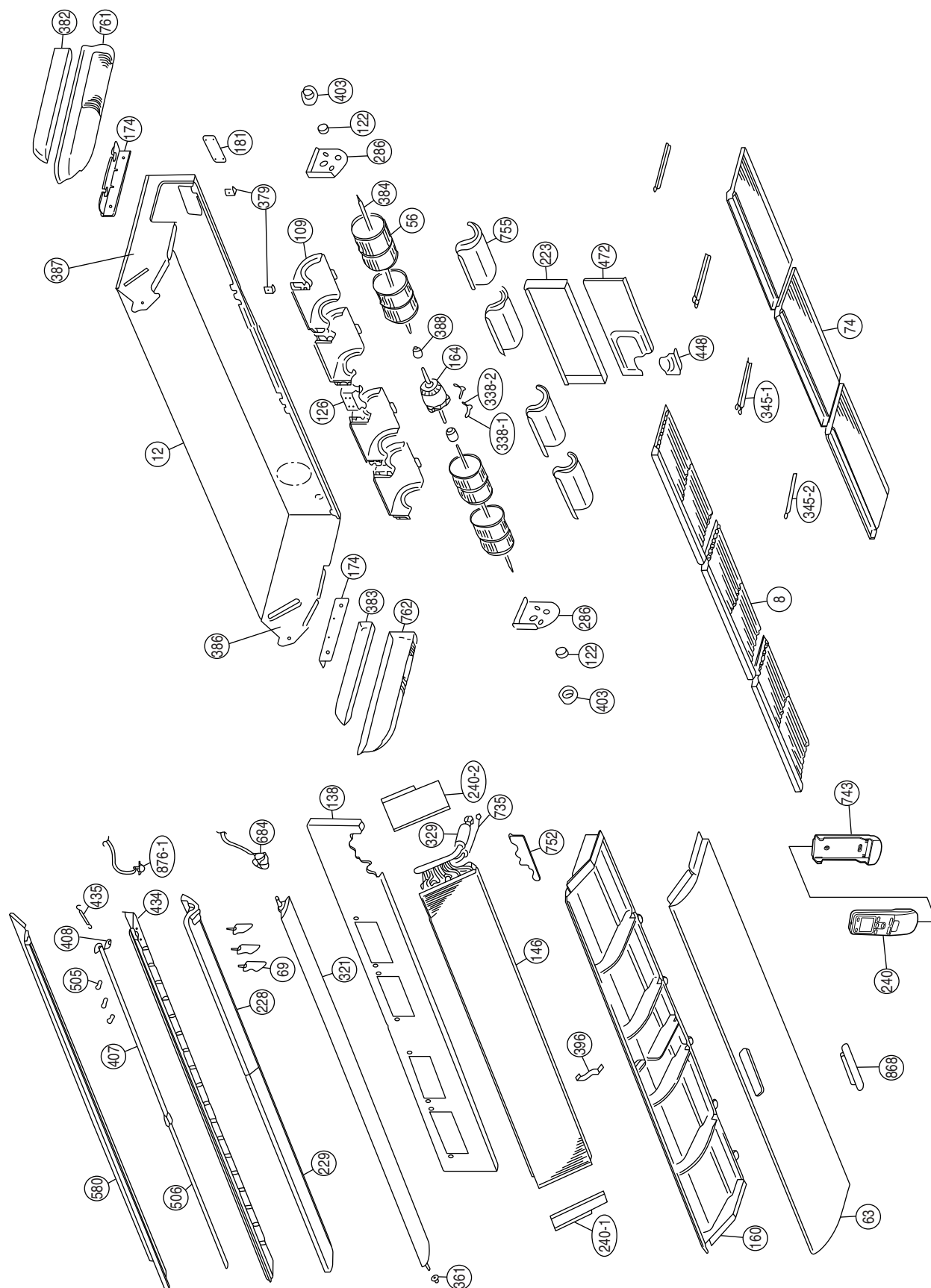
| LED1        | LED2     | Error contents                    |
|-------------|----------|-----------------------------------|
| flash       | flash    | Model abnormal or EEPROM abnormal |
| 1 flash     | Lighting | Power source connection error     |
| 2 flash     | Lighting | Discharge temp. sensor error      |
| 3 flash     | Lighting | Heat exchanger temp. sensor error |
| 4 flash     | Lighting | Outdoor temp. sensor error        |
| 5 flash     | Lighting | Communication signal error        |
| 6 flash     | Lighting | Indoor unit error                 |
| 7 flash     | Lighting | Discharge temp. abnormal          |
| 8 flash     | Lighting | High pressure abnormal            |
| 9 flash     | Lighting | Compressor temp. abnormal         |
| 10 flash    | Lighting | Compressor temp. sensor error     |
| Dislighting |          | No error. Protect operation       |

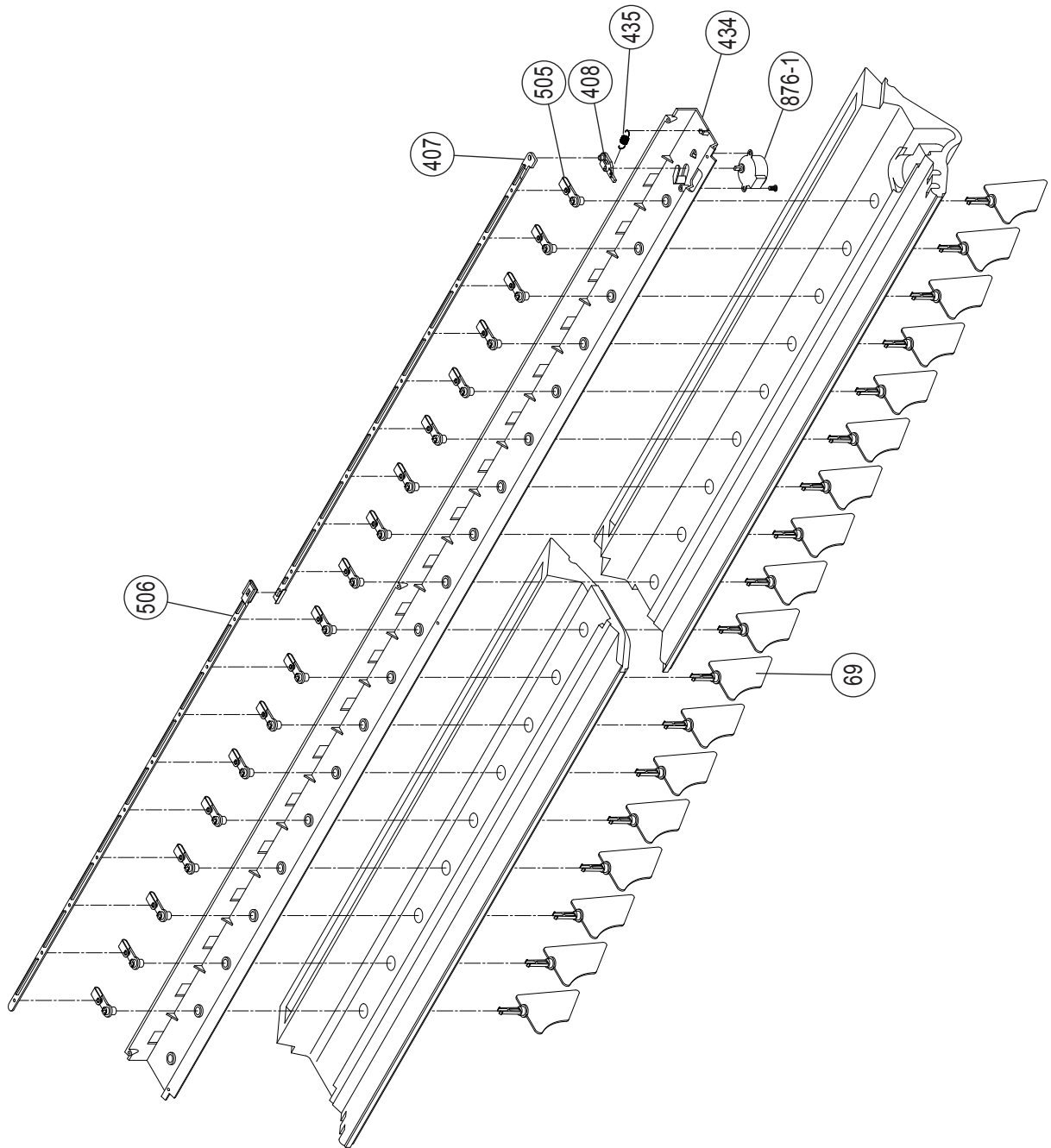
When the fault is cleared, the LED lamp goes off.

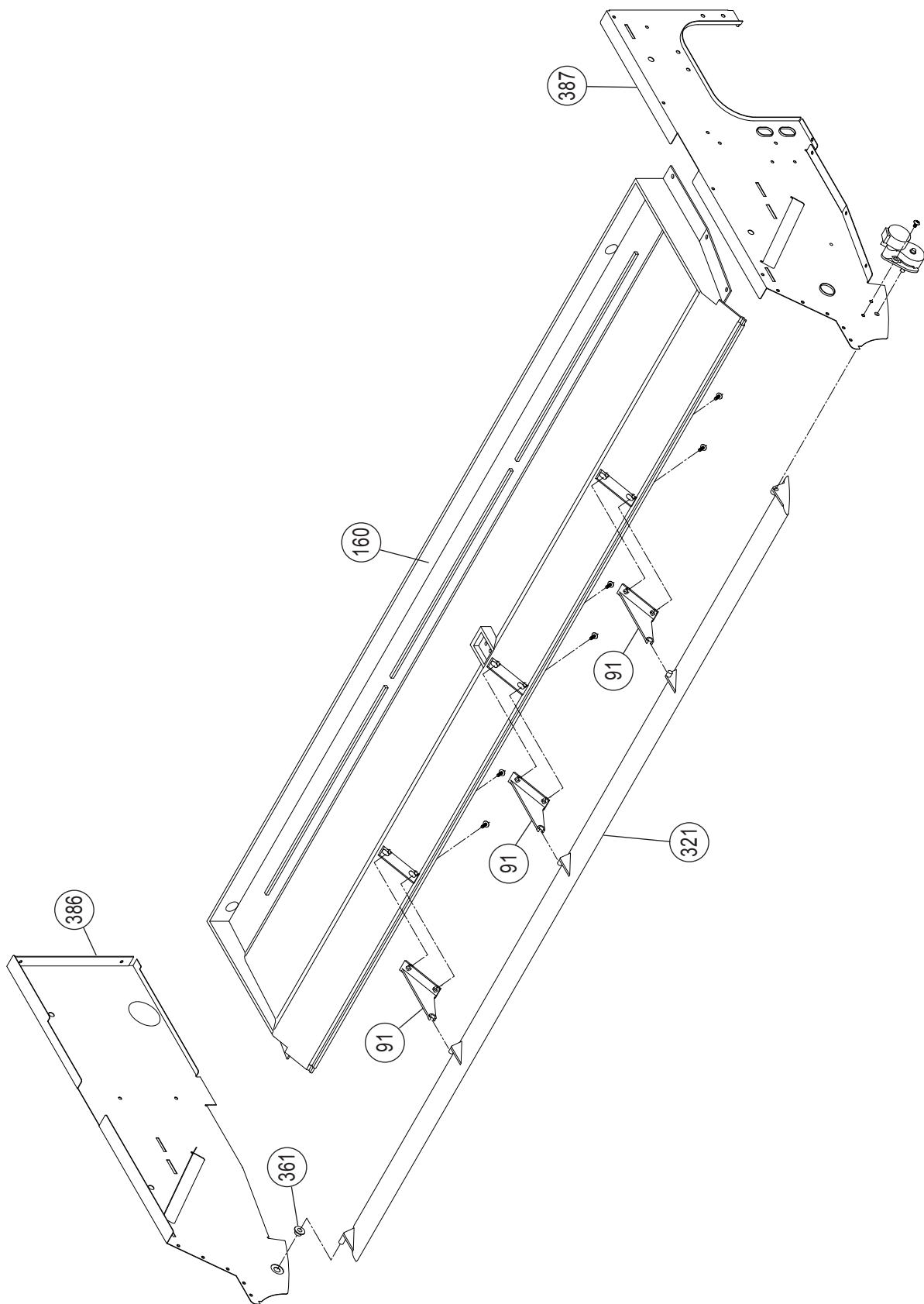
However, for discharge pipe temperature abnormal and high pressure abnormal, the LED lamp lights continuously for 24 hours, as long as the power is not turned off.

# DISASSEMBLY ILLUSTRATION

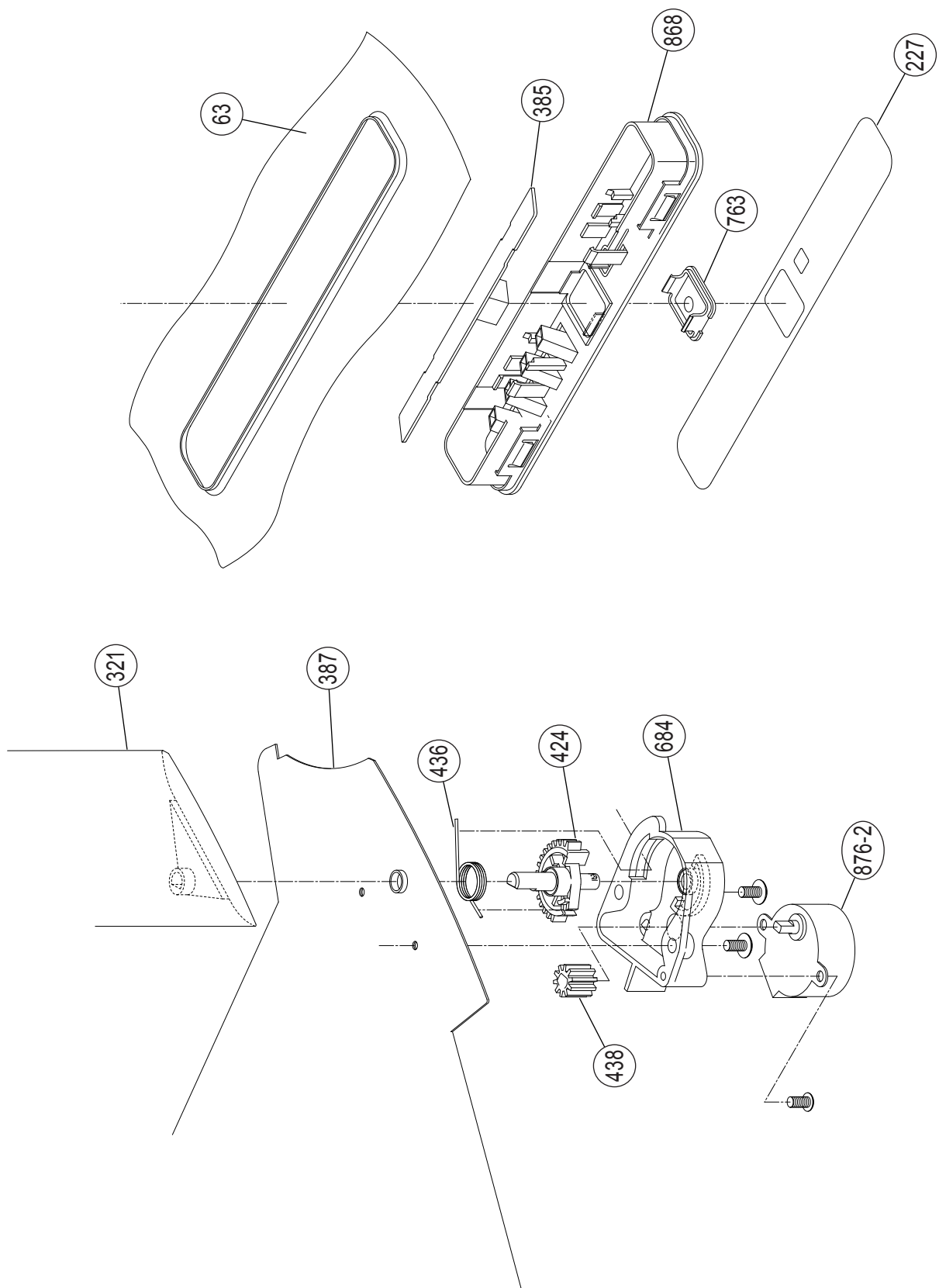
Models : RY-54FA, RY-54UA



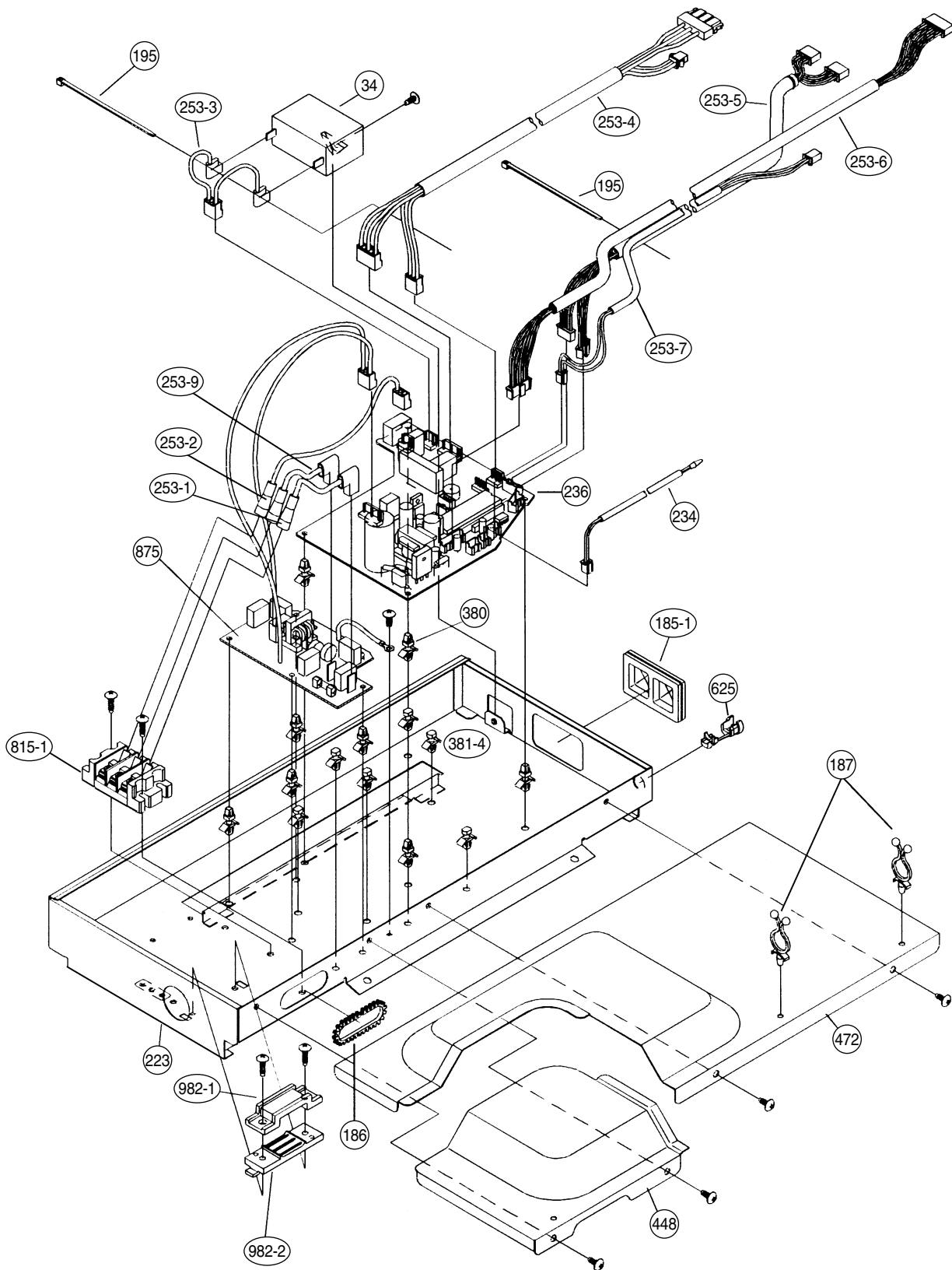






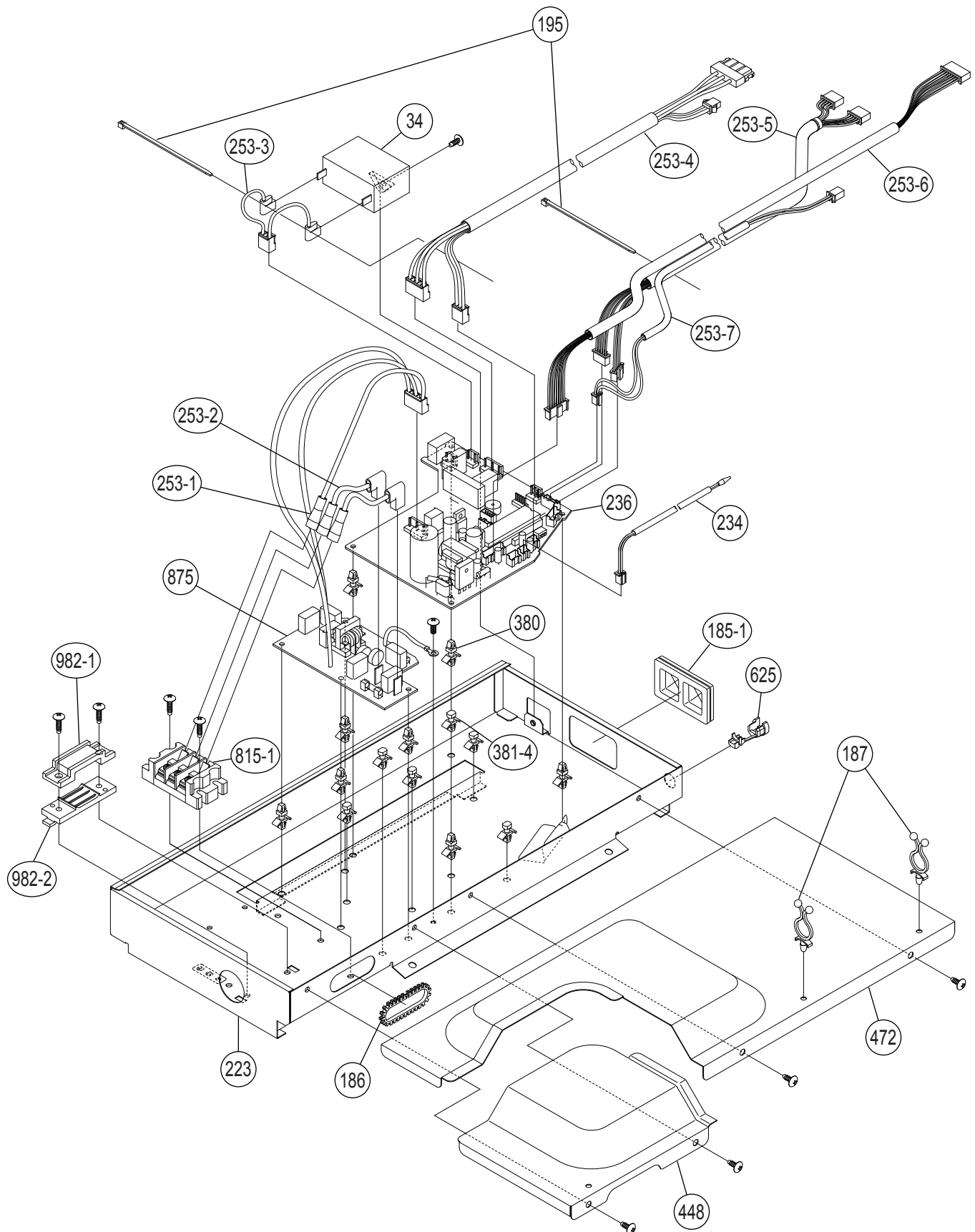


**Model : RY-54FA**

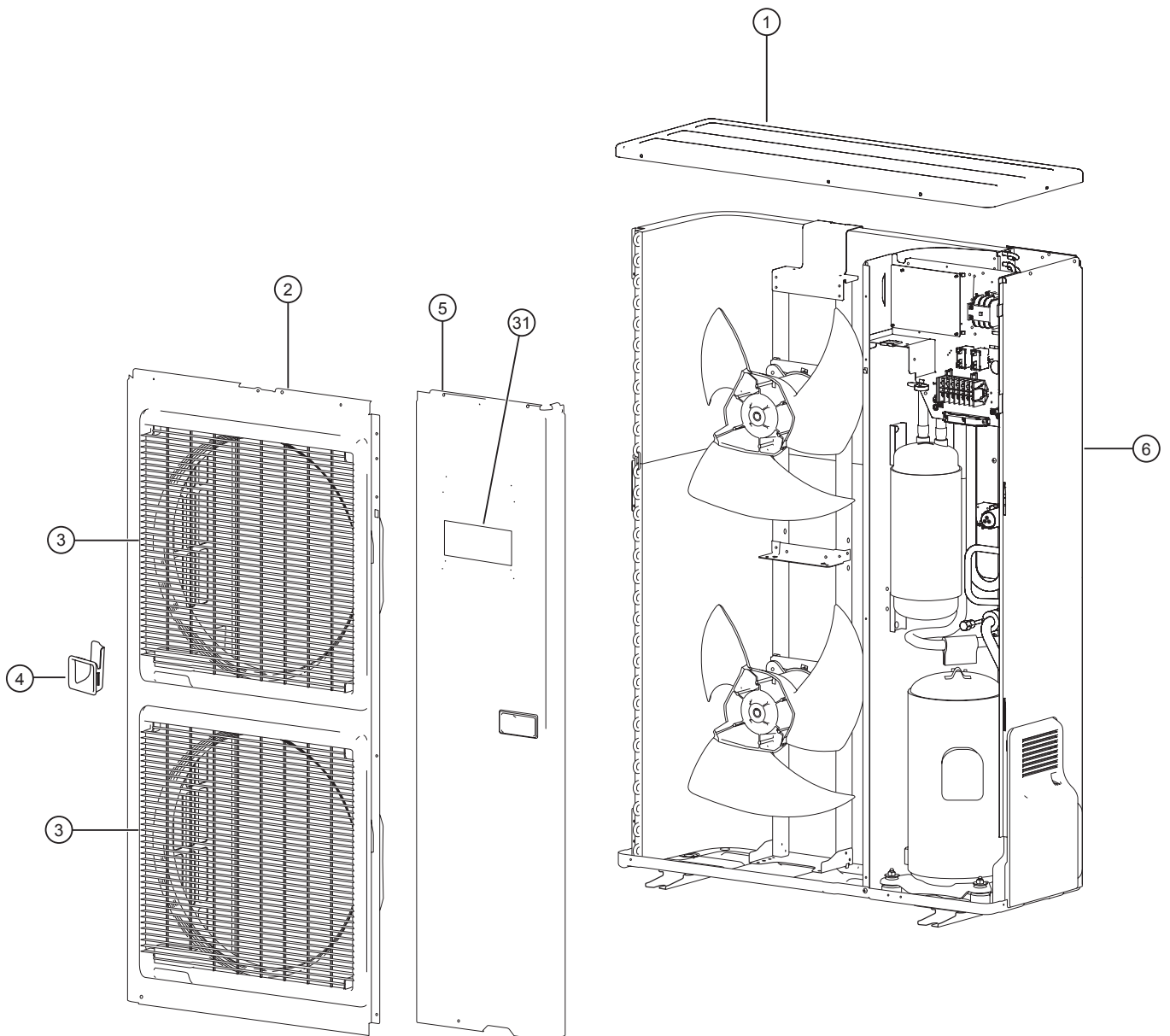




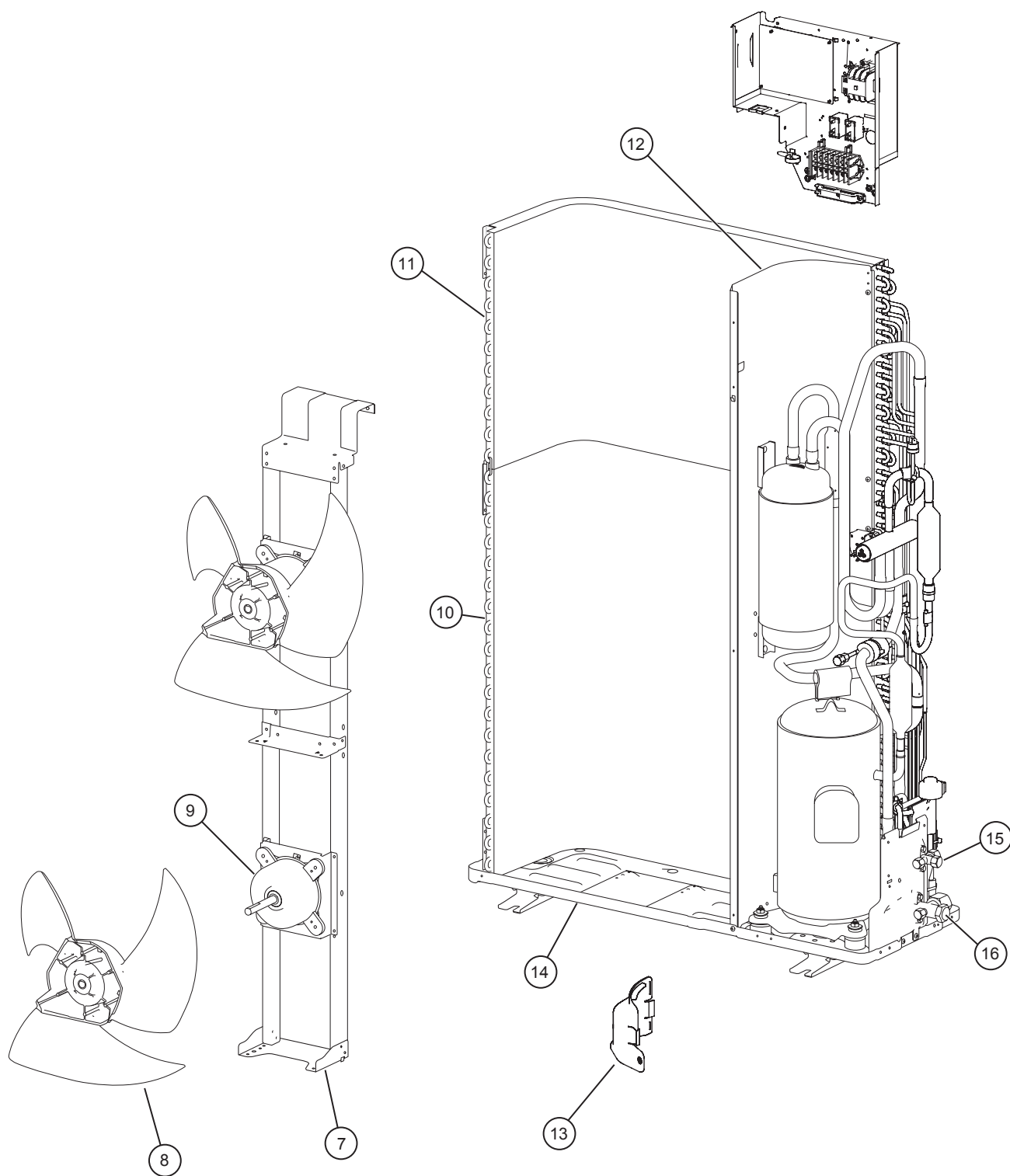
**Model : RY-54UA**



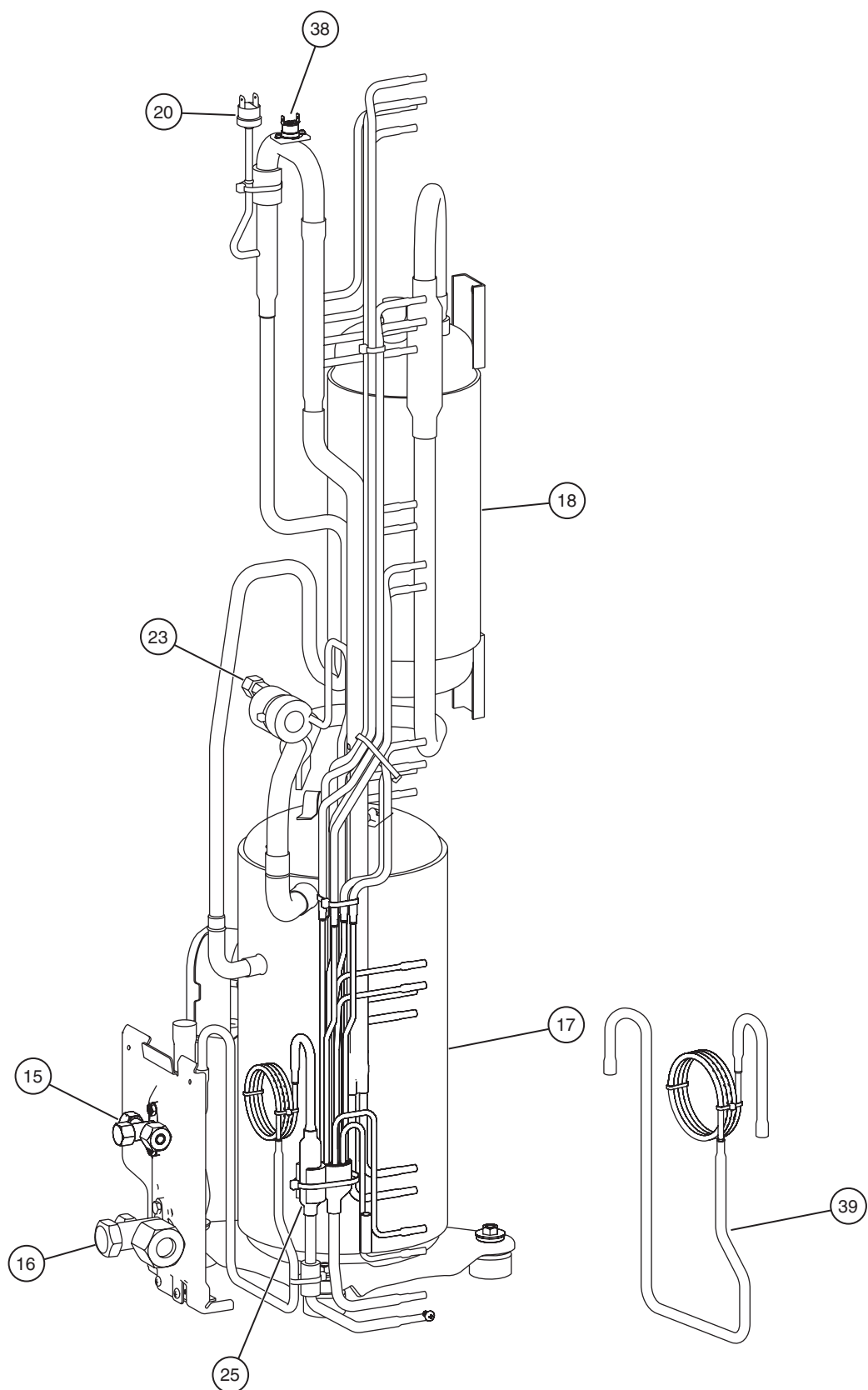
**Models : RO-54FA, RO-54UA**



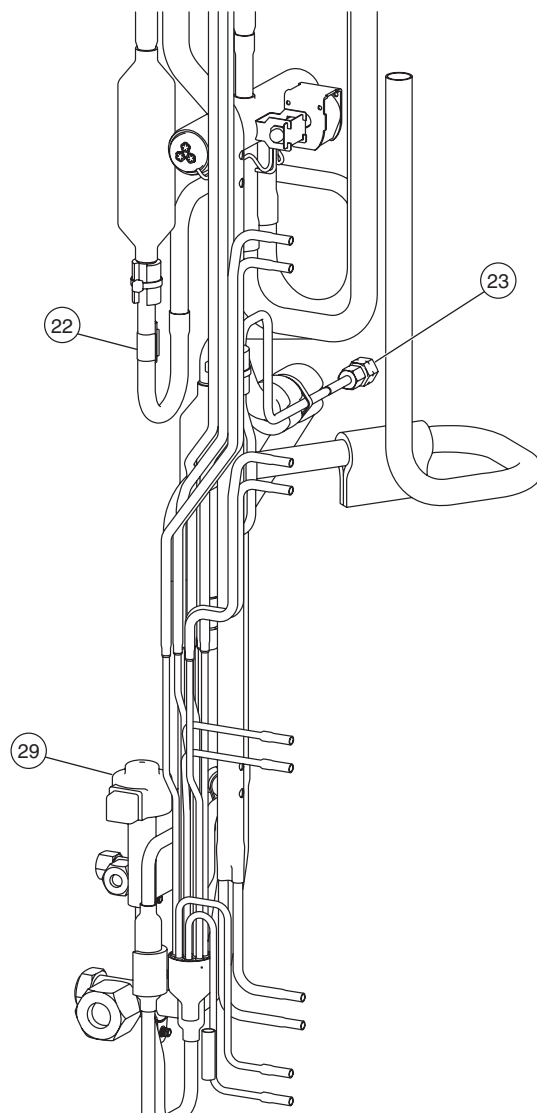
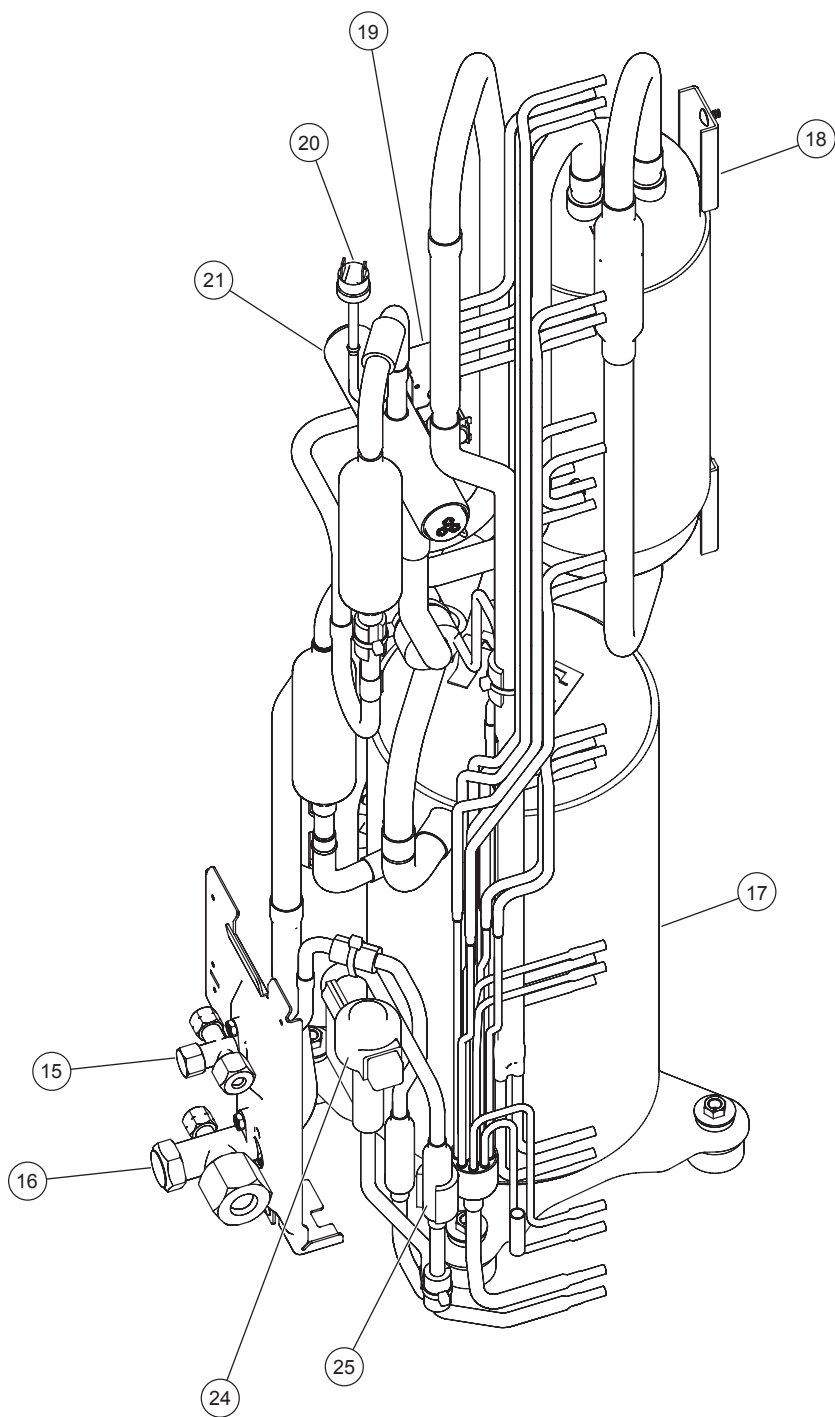
**Models : RO-54FA, RO-54UA**



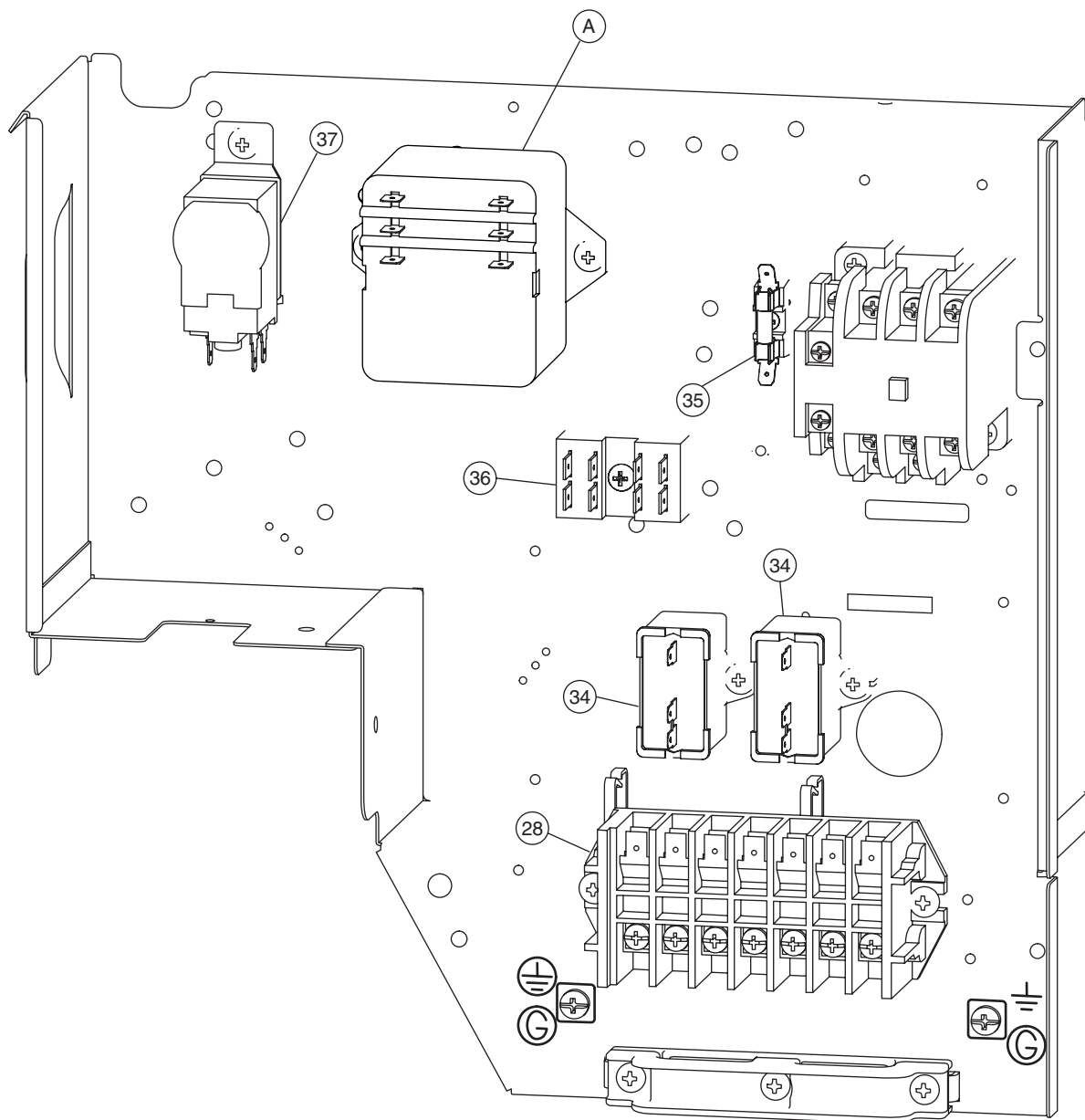
**Model : RO-54FA**



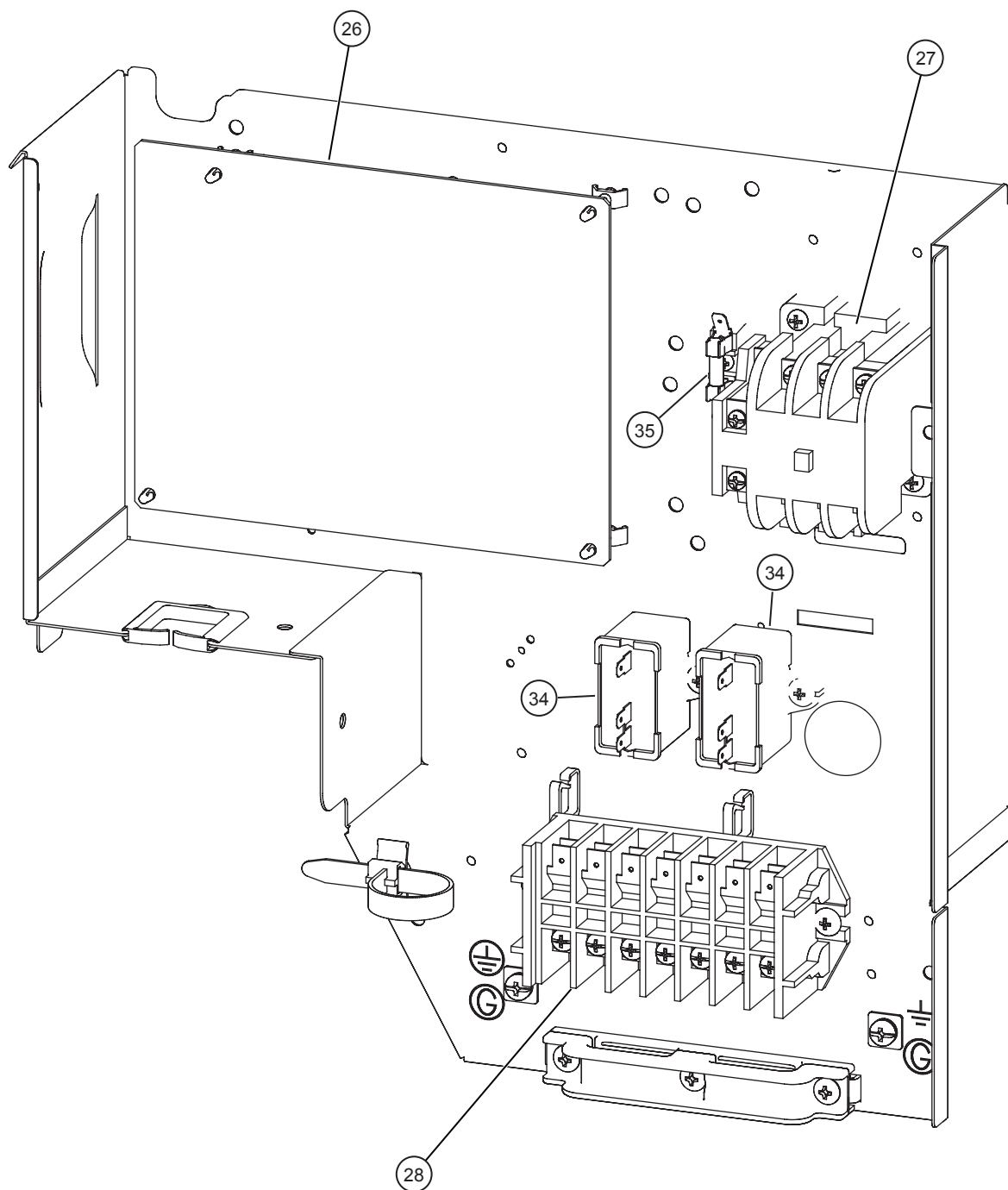
**Model : RO-54UA**



**Model : RO-54FA**



**Model : RO-54UA**



# PARTS LIST

## INDOOR UNIT

| Ref. No. | Description                  | Part No.     |              | Ord. Qty | Ref. No. | Description                 | Part No.     |              | Ord. Qty |
|----------|------------------------------|--------------|--------------|----------|----------|-----------------------------|--------------|--------------|----------|
|          |                              | RY-54FA      | RY-54UA      |          |          |                             | RY-54FA      | RY-54UA      |          |
| 8        | Air Filter                   | 9359739005   | 9359739005   |          | 383      | Cover (Decoration)-L        | 9359745006   | 9359745006   |          |
| 12       | Base Assy                    | 9359680000   | 9359680000   |          | 384      | Shaft                       | 9359707004   | 9359707004   |          |
| 34       | Capacitor (Fan Motor)        | 9900270216   | 9900270216   |          | 385      | Indicator PCB Assy          | 9702260019   | 9702260019   |          |
| 56       | Sirocco Fan Assy             | 9359701002   | 9359701002   |          | 386      | Panel-Left Assy             | 9359685005   | 9359685005   |          |
| 63       | Panel (Front)                | 9359734000   | 9359734000   |          | 387      | Panel-Right Assy            | 9359683001   | 9359683001   |          |
| 69       | Louver                       | 9359719007   | 9359719007   |          | 388      | Joint Assy                  | 9359706007   | 9359706007   |          |
| 74       | Intake Grille                | 9359738008   | 9359738008   |          | 396      | Reinforcement Metal         | 9359697008   | 9359697008   |          |
| 91       | Hinge                        | 9359699002   | 9359699002   |          | 403      | Shaft Holder Fixture        | 9359687009   | 9359687009   |          |
| 109      | Casing                       | 9359704003   | 9359704003   |          | 407      | Rod (Motor)                 | 9359723004   | 9359723004   |          |
| 122      | Shaft Holder-B               | 9357921006   | 9357921006   |          | 408      | Louver Link                 | 9359726005   | 9359726005   |          |
| 126      | Motor Fixing Table           | 9359681007   | 9359681007   |          | 424      | Sector Gear                 | 9359729006   | 9359729006   |          |
| 138      | Kit (Separate Wall Sub Assy) | 9371366012   | 9371366012   |          | 434      | Louver Base                 | 9359718000   | 9359718000   |          |
| 146      | Evaporator Assy              | 9371073040   | 9371073040   |          | 435      | Louver Spring               | 9359720003   | 9359720003   |          |
| 160      | Kit (Drain Pan) Sub Assy     | 9371368016   | 9371368016   |          | 436      | Flap Spring                 | 9359730002   | 9359730002   |          |
| 164      | Fan Motor Assy-IN            | 9360457004   | 9360457004   |          | 438      | Pinion Gear                 | 9359728009   | 9359728009   |          |
| 174      | Hanger Bracket               | 9359742005   | 9359742005   |          | 448      | Control Box-B               | 9359713005   | 9359713005   |          |
| 181      | Hole Cover                   | 9359691006   | 9359691006   |          | 472      | Control Box-A               | 9359712008   | 9359712008   |          |
| 185-1    | Louver Bushing               | 9357376004   | 9357376004   |          | 505      | Louver Stopper              | 9359724001   | 9359724001   |          |
| 186      | Edge Cover                   | 9361049017   | 9361049017   |          | 506      | Louver Rod                  | 9359725008   | 9359725008   |          |
| 187      | Clamp No. 1219               | 313361271706 | 313361271706 |          | 580      | Top Cover                   | 9359737001   | 9359737001   |          |
| 195      | Clamp SKB-100                | 313361275805 | 313361275805 |          | 625      | Cord Bushing                | 9359240006   | 9359240006   |          |
| 223      | Control Box Assy             | 9359708001   | 9359708001   |          | 684      | Motor Base                  | 9359727002   | 9359727002   |          |
| 227      | Badge                        | 9359735045   | 9359735045   |          | 735      | Distributor Assy            | 9360455000   | 9360455000   |          |
| 228      | Insulation (Louver)-R        | 9359721000   | 9359721000   |          | 743      | Remote Control Unit Holder  | 9305642014   | 9305642014   |          |
| 229      | Insulation (Louver)-L        | 9359722007   | 9359722007   |          | 752      | Pipe Fixture Metal          | 9359688006   | 9359688006   |          |
| 234      | Room Temperature Thermistor  | 9703299025   | 9703299025   |          | 755      | Casing Cover                | 9359705000   | 9359705000   |          |
| 236      | Controller PCB Assy          | 9704557254   | 9704557513   |          | 761      | Side Cover-R                | 9359740001   | 9359740001   |          |
| 240      | Remote Control Unit          | 9371190020   | 9371190013   |          | 762      | Side Cover-L                | 9359741008   | 9359741008   |          |
| 240-1    | Kit (Panel Pipe-L) Sub Assy  | 9371362014   | 9371362014   |          | 763      | Receiver Cover              | 9359714002   | 9359714002   |          |
| 240-2    | Kit (Panel Pipe-R) Sub Assy  | 9371363011   | 9371363011   |          | 815-1    | Terminal-3P                 | 9900203016   | 9900203016   |          |
| 253-1    | Wire Assy (Connector)        | 9702321017   | 9702321017   |          | 868      | PCB Holder                  | 9359736004   | 9359736004   |          |
| 253-2    | Wire Assy (Connector)        | 9702322014   | 9702322014   |          | 875      | Power Supply PCB Assy       | 9704561138   | 9704561060   |          |
| 253-3    | Wire Assembly                | 9702311018   | 9702311018   |          | 876-1    | Motor, Step-H               | 9360479013   | 9360479013   |          |
| 253-4    | Wire Assy (Connector)        | 9702323011   | 9702323011   |          | 876-2    | Motor, Step-V               | 9360307026   | 9360307026   |          |
| 253-5    | Wire Assy (Connector)        | 9702319014   | 9702319014   |          | 982-1    | Cord Clamp-A                | 9359820017   | 9359820017   |          |
| 253-6    | Wire Assy (Connector)        | 9702317010   | 9702317010   |          | 982-2    | Cord Clamp-B                | 9359821014   | 9359821014   |          |
| 253-7    | Wire Assy (Connector)        | 9702318017   | 9702318017   |          | ----     | Evaporator Sub Assy         | 9360428196   | 9360428196   |          |
| 253-9    | Wire Assembly                | 9704847010   | -----        |          | ----     | Pipe Temperature Thermistor | 9900022020   | 9900022020   |          |
| 286      | Shaft Holder Bracket         | 9359686002   | 9359686002   |          | ----     | Thermistor Spring-A         | 313728262708 | 313728262708 |          |
| 321      | Flap Assy                    | 9359731009   | 9359731009   |          |          |                             |              |              |          |
| 329      | Coupling Pipe Assy           | 9373038184   | 9373038184   |          |          |                             |              |              |          |
| 338-1    | Motor Fixture                | 9359702009   | 9359702009   |          |          |                             |              |              |          |
| 338-2    | Motor Fixture-B              | 9359703006   | 9359703006   |          |          |                             |              |              |          |
| 345-1    | Filter Guide-R               | 9359692003   | 9359692003   |          |          |                             |              |              |          |
| 345-2    | Filter Guide-L               | 9359693000   | 9359693000   |          |          |                             |              |              |          |
| 361      | Bushing                      | 9359733003   | 9359733003   |          |          |                             |              |              |          |
| 379      | Hinge Plate (Grille)         | 9359694007   | 9359694007   |          |          |                             |              |              |          |
| 380      | Locking Spacer KGLS-6S       | 313209391403 | 313209391403 |          |          |                             |              |              |          |
| 381-4    | Locking Spacer KGPS-6S       | 0600118075   | 0600118075   |          |          |                             |              |              |          |
| 382      | Cover (Decoration)-R         | 9359744009   | 9359744009   |          |          |                             |              |              |          |



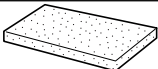
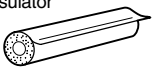
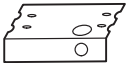
## OUTDOOR UNIT

| Ref.<br>No. | Description            | Part No.       | Ord.<br>Q'ty |
|-------------|------------------------|----------------|--------------|
|             |                        | <b>RO-54FA</b> |              |
| 1           | Top Panel Sub Assy     | 9374417018     |              |
| 2           | Front Panel-X, Painted | 9374094028     |              |
| 3           | Fan Guard              | 9374330010     |              |
| 4           | Side Grip              | 9374173013     |              |
| 5           | Service Panel Sub Assy | 9374415014     |              |
| 6           | Right Panel Sub Assy   | 9374416011     |              |
| 7           | Motor Bracket Sub Assy | 9374418015     |              |
| 8           | Propeller Fan Assy     | 9366378013     |              |
| 9           | Motor, Induction       | 9601671060     |              |
| 10          | Condenser-A Assy       | 9374433025     |              |
| 11          | Condenser-B Assy       | 9374434022     |              |
| 12          | Separate Wall-X        | 9374135011     |              |
| 13          | Cap Foot               | 9374345014     |              |
| 14          | Base Assy              | 9374166022     |              |
| 15          | 3-Way Valve Assy       | 9372205044     |              |
| 16          | 3-Way Valve Assy       | 9372205099     |              |
| 17          | Compressor Assy        | 9374250011     |              |
| 18          | Accumulator Assy       | 9371615011     |              |
| 20          | Pressure Switch        | 9900276010     |              |
| 23          | Check Valve Assy       | 9374274017     |              |
| 25          | Strainer Assy          | 9372524015     |              |
| 28          | Terminal-7P            | 9363276039     |              |
| 31          | Emblem Rear            | 9361328006     |              |
| 34          | Capacitor (Fan Motor)  | 9900270049     |              |
| 35          | Fuse                   | 0600222529     |              |
| 36          | Terminal-2P            | 9701971015     |              |
| 37          | Thermostat (Outdoor)   | 9900275013     |              |
| 38          | Thermostat (Overheat)  | 9354061002     |              |
| 39          | Capillary Assy         | 9372197332     |              |
| A           | Relay                  | 9900287016     |              |

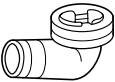
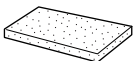
| Ref.<br>No. | Description                | Part No.       | Ord.<br>Q'ty |
|-------------|----------------------------|----------------|--------------|
|             |                            | <b>RO-54UA</b> |              |
| 1           | Top Panel Sub Assy         | 9374417018     |              |
| 2           | Front Panel-X, Painted     | 9374094028     |              |
| 3           | Fan Guard                  | 9374330010     |              |
| 4           | Side Grip                  | 9374173013     |              |
| 5           | Service Panel Sub Assy     | 9374415014     |              |
| 6           | Right Panel Sub Assy       | 9374416011     |              |
| 7           | Motor Bracket Sub Assy     | 9374418015     |              |
| 8           | Propeller Fan Assy         | 9366378013     |              |
| 9           | Motor, Induction           | 9601671060     |              |
| 10          | Condenser-A Assy           | 9374433018     |              |
| 11          | Condenser-B Assy           | 9374434015     |              |
| 12          | Separate Wall-X            | 9374135011     |              |
| 13          | Cap Foot                   | 9374345014     |              |
| 14          | Base Assy                  | 9374166022     |              |
| 15          | 3-Way Valve Assy           | 9372205044     |              |
| 16          | 3-Way Valve Assy           | 9372205099     |              |
| 17          | Compressor Assy            | 9374250011     |              |
| 18          | Accumulator Assy           | 9371615011     |              |
| 19          | Solenoid                   | 9900165055     |              |
| 20          | Pressure Switch            | 9900186012     |              |
| 21          | 4-Way Valve                | 9970035012     |              |
| 22          | Discharge Temp. Thermistor | 9900277017     |              |
| 23          | Check Valve Assy           | 9374274017     |              |
| 24          | Coil (Expansion Valve)     | 9900190026     |              |
| 25          | Strainer Assy              | 9372524015     |              |
| 26          | Controller PCB Assy        | 9705677012     |              |
| 27          | Magnetic Relay             | 9900227012     |              |
| 28          | Terminal-7P                | 9363276039     |              |
| 29          | Expansion Valve            | 9900170028     |              |
| 31          | Emblem Rear                | 9361328006     |              |
| 34          | Capacitor (Fan Motor)      | 9900270049     |              |
| 35          | Fuse                       | 0600222529     |              |
| ----        | Thermistor Assy            | 9900274016     |              |
| ----        | Drain Cap                  | 313166024302   |              |
| ----        | Drain Pipe                 | 9301102000     |              |

# STANDARD ACCESSORIES

## INDOOR UNIT ACCESSORIES

| Name and Shape                                                                                                         | Q'ty       | Application                                 | Part No.               |                        |
|------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------|------------------------|------------------------|
|                                                                                                                        |            |                                             | RY-54FA                | RY-54UA                |
| Remote control unit<br>               | 1          | Use for air conditioner operation           | 9371190020<br>(AR-JW2) | 9371190013<br>(AR-JW1) |
| Battery (pen light)<br>               | 2          | For remote control unit                     | 0600185534             | 0600185534             |
| Remote control unit holder<br>        | 1          | For mounting the remote control unit        | 9305642014             | 9305642014             |
| Tapping screw<br>( $\phi$ 3 x 12)<br> | 2          | For remote control unit holder installation | 301141533125           | 301141533125           |
| Drain hose insulation<br>             | 1          | Adhesive type 70 x 230                      | 9360464002             | 9360464002             |
| VT wire<br>                           | 1          | For fixing the drain hose L 280 mm          | 313806350303           | 313806350303           |
| Coupler heat insulator (large)<br>    | 2          | For indoor side pipe joint (large pipe)     | 9350716029             | 9350716029             |
| Coupler heat insulator (small)<br>   | 1          | For indoor side pipe joint (small pipe)     | 9352766015             | 9352766015             |
| Nylon fastener<br>                  | Large<br>4 | For fixing the coupler heat insulator       | 9301501001             | 9301501001             |
|                                                                                                                        | Small<br>4 |                                             | 312300787605           | 312300787605           |
| Special nut A (large flange)<br>    | 4          | For installing indoor unit                  | 313005446653           | 313005446653           |
| Special nut B (small flange)<br>    | 4          | For installing indoor unit                  | 313005446759           | 313005446759           |
| Installation template<br>           | 1          | For positioning the indoor unit             | 9360022004             | 9360022004             |
| Auxiliary pipe assembly<br>         | 1          | For connecting the piping                   | 9374714049             | 9374714049             |

## OUTDOOR UNIT ACCESSORIES

| Name and Shape                                                                                             | Q'ty | Application                                                                         | Part No.   |              |
|------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|------------|--------------|
|                                                                                                            |      |                                                                                     | RO-54FA    | RO-54UA      |
| Drain pipe<br>          | 1    | For outdoor unit drain piping work<br>(May not be supplied, depending on the model) | ----       | 9303029015   |
| Drain cap<br>           | 2    |                                                                                     | ----       | 313166024302 |
| Installation (seal)<br> | 1    | For filling in a gap at the entrance of connection cords                            | 9374756018 | 9374756018   |

