

## Component replacement

### Indoor units

#### HSB60-W

##### Open HSB unit

1. Remove 2 screws from the bottom part of the unit



Screws are located here (bottom)



Screws

2. Remove the lid by pulling it and pushing it up



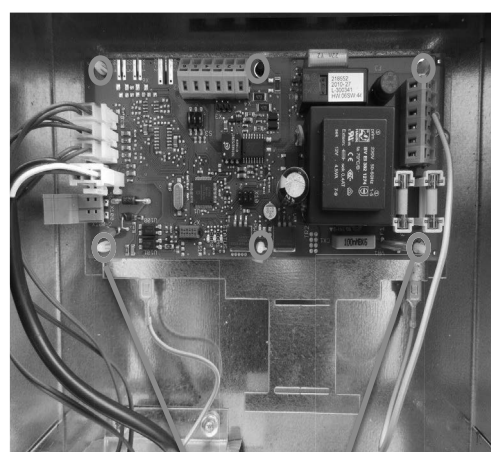
**Replace AA23 communication card**

1. Disconnect all wiring and remove AA23 card by unlocking plastic PCB holders



AA23 communication card

2. Place the new AA23 communication card, lock in on plastic holders, connect all cabling and close unit



Plastic holders

**Replace pressure sensor BP4**

Before removing pressure the pressure sensor make sure that you pump down the unit and that outdoor unit valves are closed!

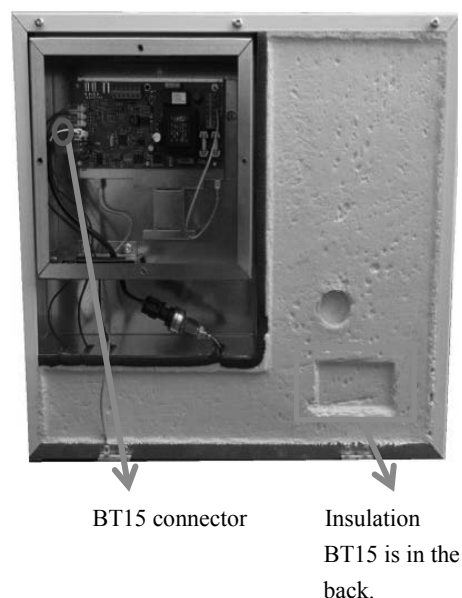
1. Unscrew BP4 pressure sensor, remove cabling from AA23 communication card.



2. Install the new pressure sensor, connect all the cables, pressure test the circuit for leak check and then open the outdoor unit valves.

**Replace temperature sensor BT15**

1. Cut the insulation material in the square box that is on the bottom right part of the HSB unit.



2. Remove the damaged sensor and its cabling.
3. Install the new sensor and guide the sensor cable to AA23 communication card.

**Replace temperature sensor BT12 and BT3**

As temperature sensors BT12 (heating medium flow) and BT3 (heating medium return) are installed on the water pipes (back of the unit) and covered with insulation there is limitation to access, so it is not possible to remove damaged sensors. Solution is leave the sensors on the unit and install the new ones in a different position.

1. Install the new sensor (BT12 or BT3) on the external water pipes from the unit. Make sure that there is contact between the sensor and the pipe and that the sensor is insulated a long the pipe.



BT12

BT3

2. Guide the new sensor cable to AA23 communication board using one of the available cable glands



Cable glands

3. Remove cabling from the damaged temperature sensor and connect the new one.



BT12/BT3 connector

## PT300

## Tank of PT300

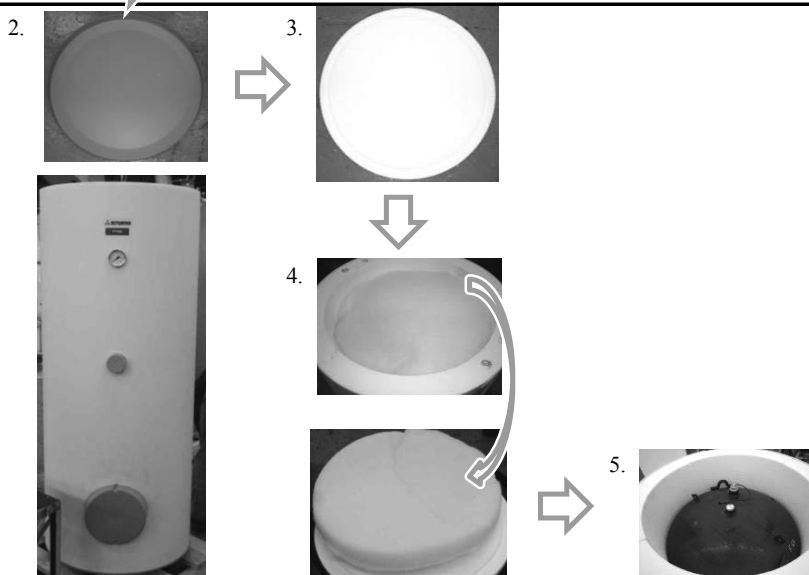
1. Remove the top panel of the tank.



Tank: PT300

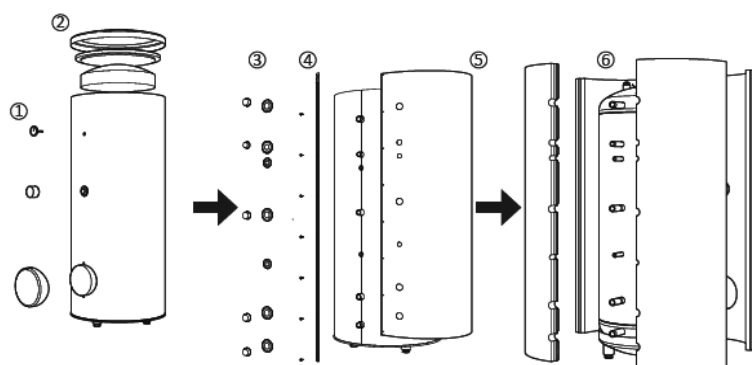
2. Remove the styrofoam.

3. See the tank.



## 4. (Details)

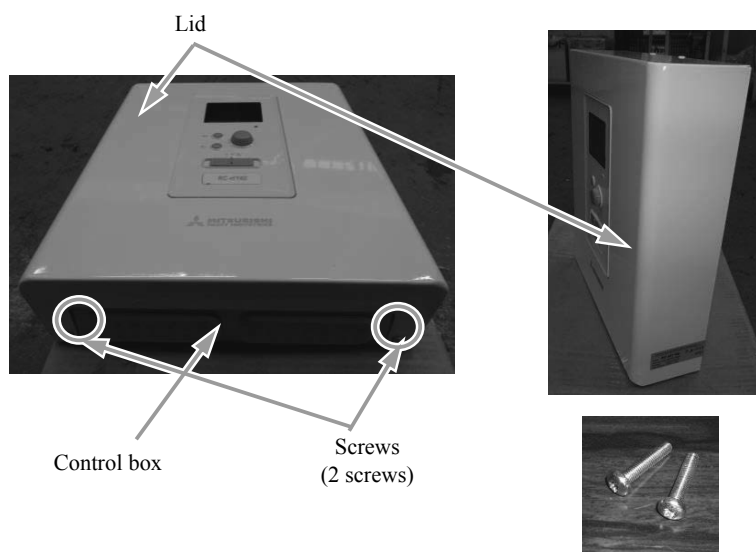
- (1) Remove the temperature gauge, plug of the heating element connector pipe and blanking plate of the inspection opening.
- (2) Remove the upper cover of the housing together with thermal insulation.
- (3) Remove the plugs from the connector pipes and black bushings.
- (4) Remove the fixing screws and the strip connecting the housing jacket.
- (5) Remove the jacket surrounding the tank (housing jacket).
- (6) Remove the four-piece thermal insulation.



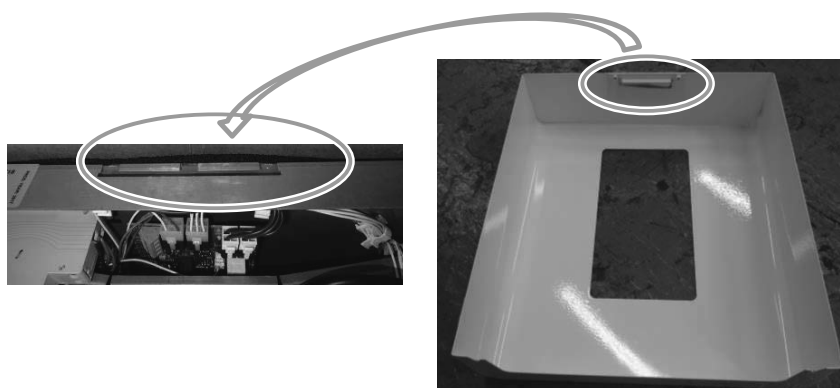
## RC-HY20/40-W

**Controller**

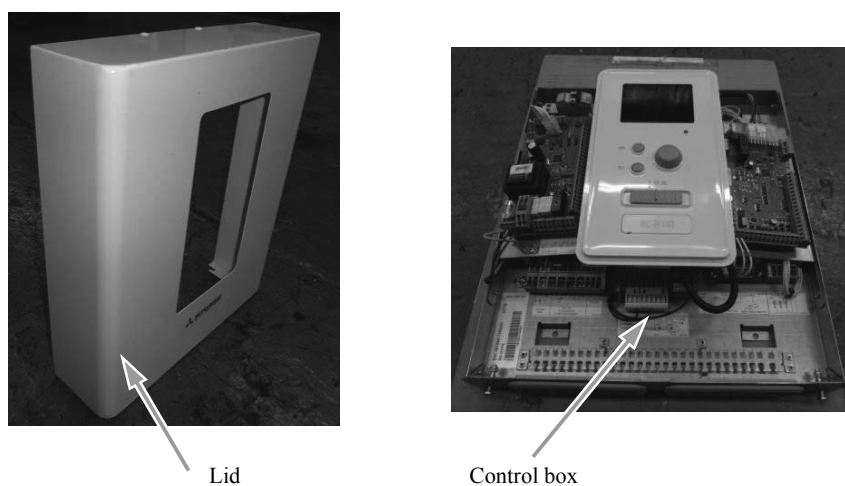
1. Loosen the screw and remove the lid and control box first.
2. Loosen 2 screws and remove the lid of control box.



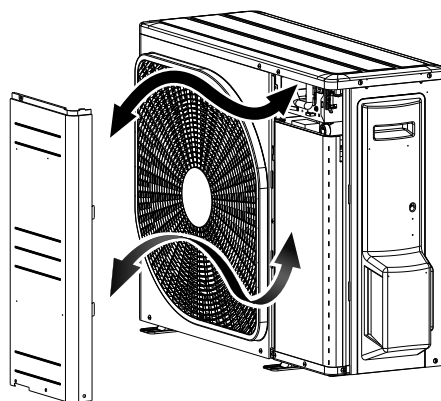
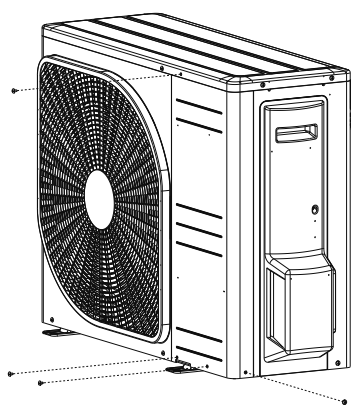
3. Remove the bracket of the lid from hole of the control box.



4. Remove the lid.
5. Check the inside of the control box.

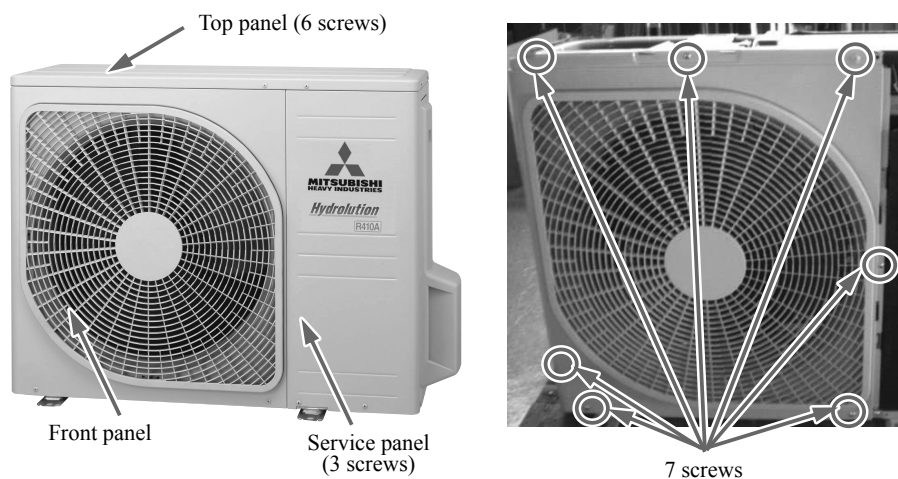


**Outdoor unit**  
**FDCW60VNX-W**

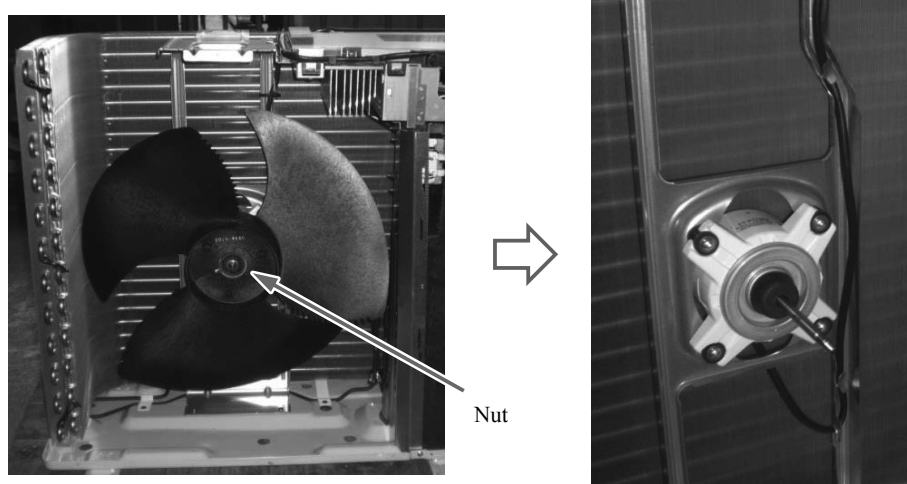


**FDCW60VNX-W****Fan and fan motor (FMo1)**

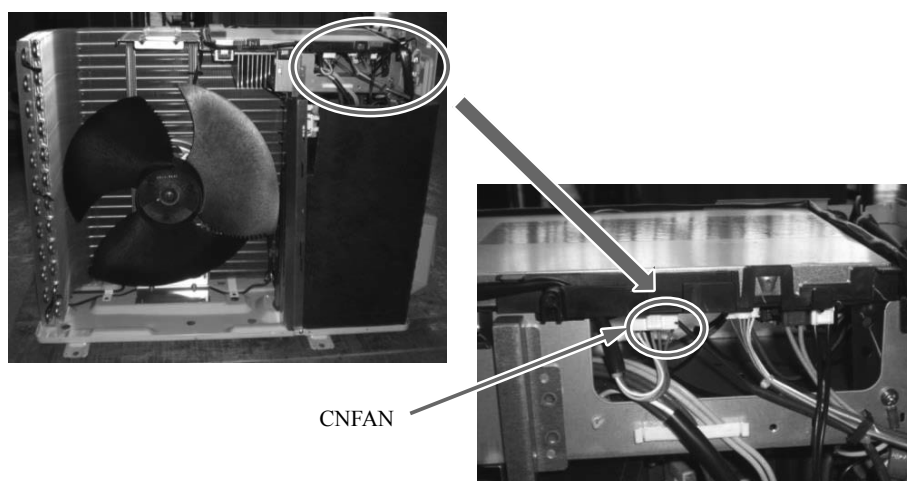
1. Loosen the screw and remove the top panel and service panel first.
2. Loosen 7 screws and remove the panel including fan grills.



3. Loosen the nut and remove the fan propeller.



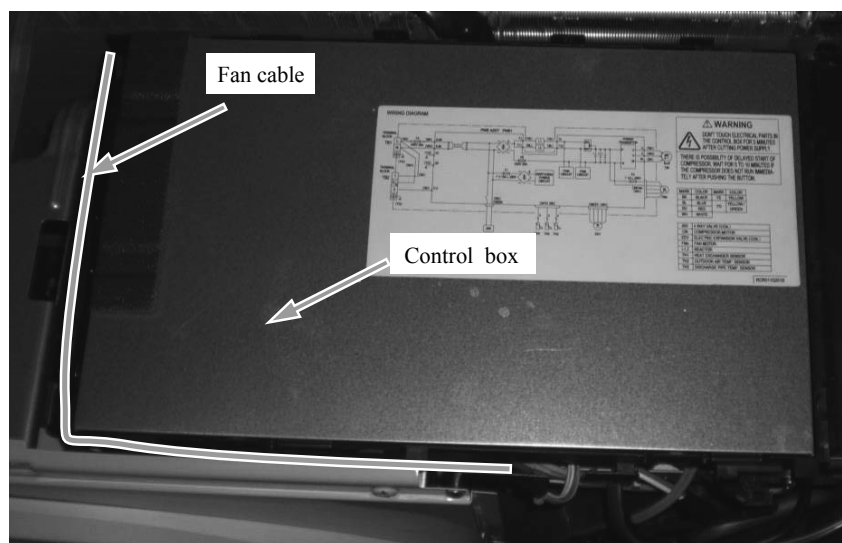
4. Disconnect the connector of CNFAN.





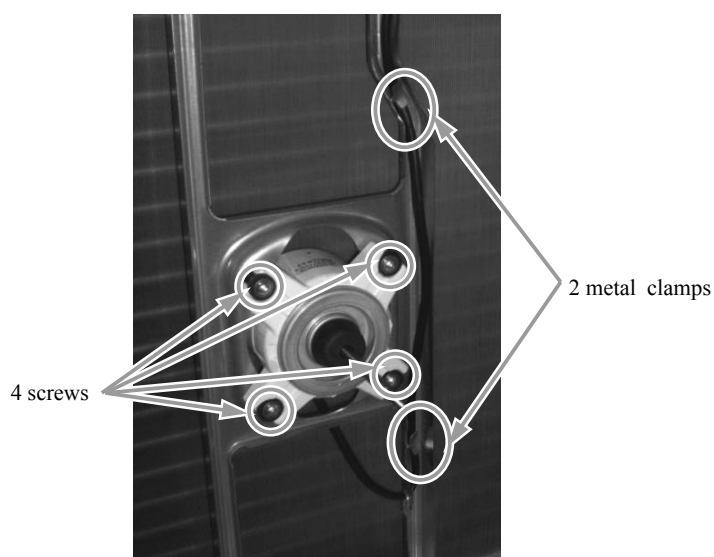
### Fan and fan motor (FMo1)

5. Remove band and fan cable.



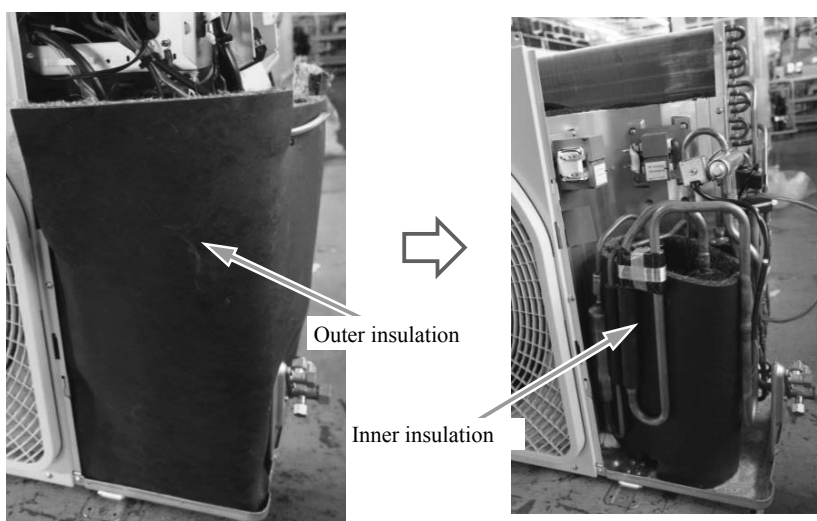
6. Release 2 metal clamps.

7. Loosen 4 screws and remove fan motor.



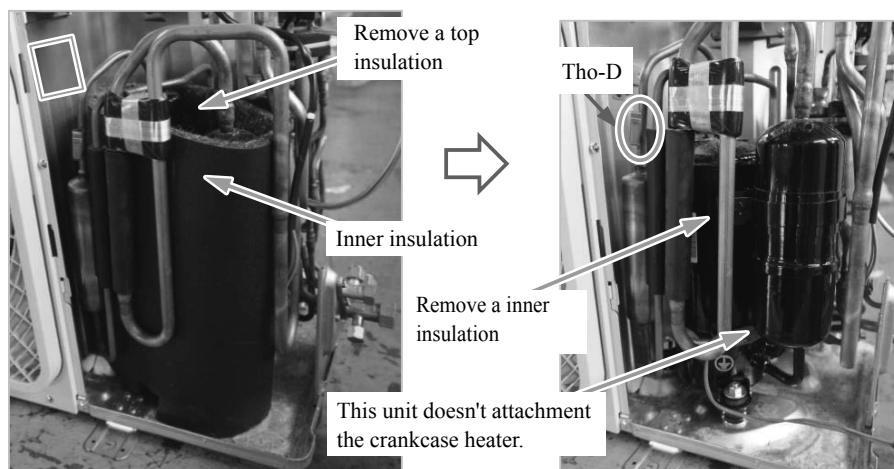
### Compressor (CM)

1. Unit the strings and remove the outer insulation.



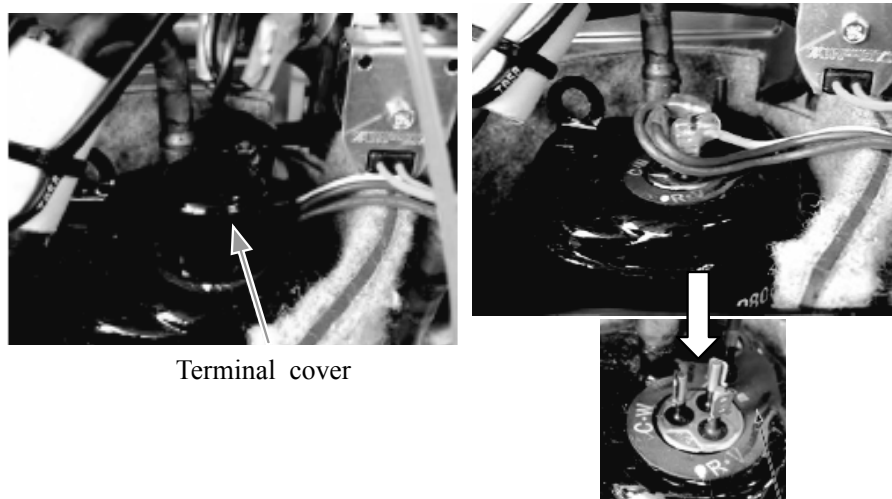
**Compressor (CM)**

2. Remove the top and inner insulations.
3. Take off sprig leaf and pull out sensor (Tho-D).



4. Remove the terminal cover.
5. Disconnect the faston terminal connectors from compressor.

U : Red cable  
V : White cable  
W : Blue cable



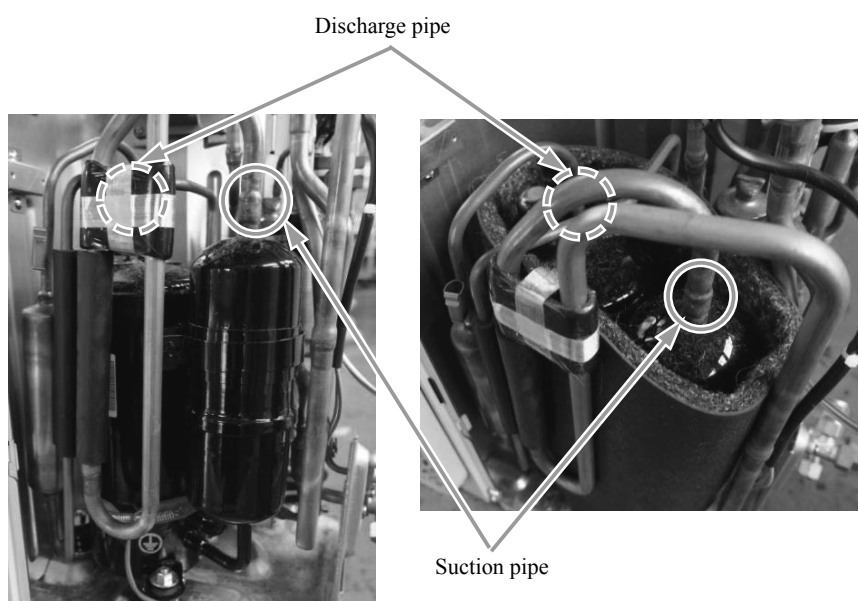
6. Loosen 3 units of compressor fixing bolts.



**Compressor (CM)**

7. Disconnect the pipes for suction and discharge.

8. Remove the compressor.

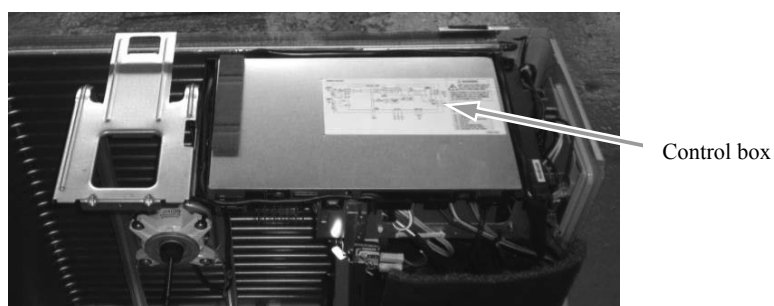
**Control PCB(PWB)**

1. Open the top panel.

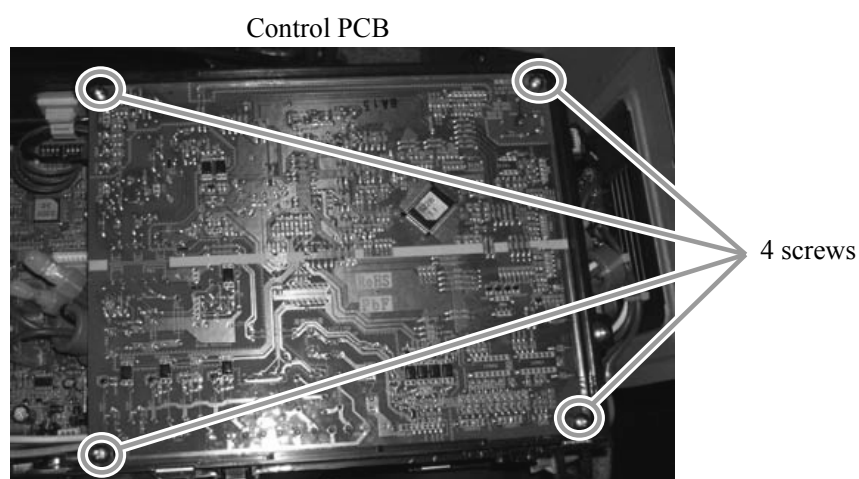
2. Open the control box cover.

Note: Be sure to do this work after elapsing 3 minutes from OFF.

3. Loosen 4 screws.



Open the control box cover.

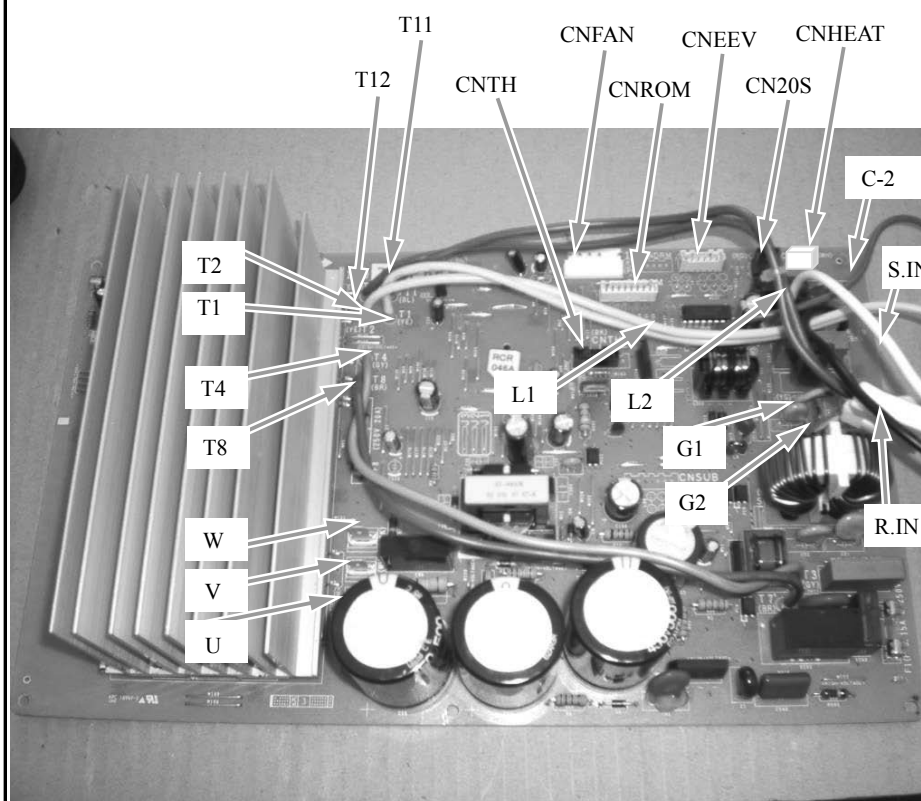


**Control PCB (PWB)**

- 1.** Disconnect all connectors and remove the control PCB.

(Connector)

CNHEAT  
CN20S  
CNEEV  
CNROM  
CNFAN  
CNTH  
L1  
L2



- 2.** Disconnect all terminals on the terminal block.

(Terminal block)

C-2(Harness color:RED)  
S.IN(Harness color:WHITE)  
R.IN(Harness color:BLACK)  
G1 (Harness color:YELLOW/GREEN)  
G2 (Harness color:YELLOW/GREEN)

