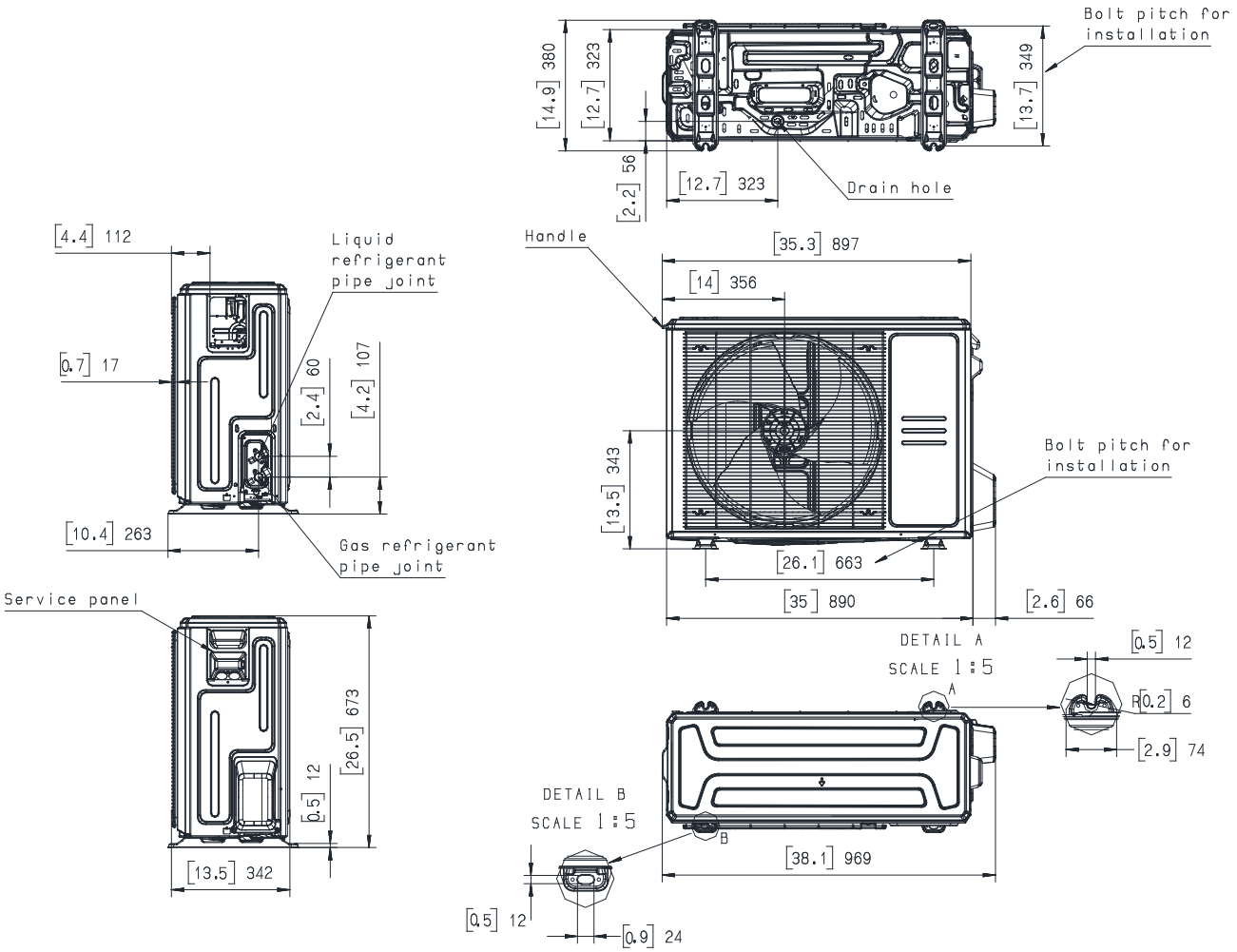
Version Date: 05-13-24

Outdoor Unit Disassembly

ACiQ-18-AC
ACiQ-24-AC
ACiQ-30-AC
ACiQ-36-AC
ACiQ-48-AC

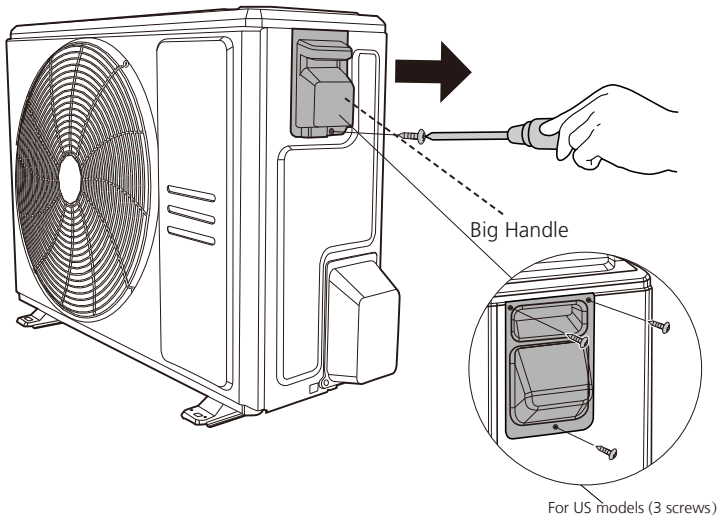
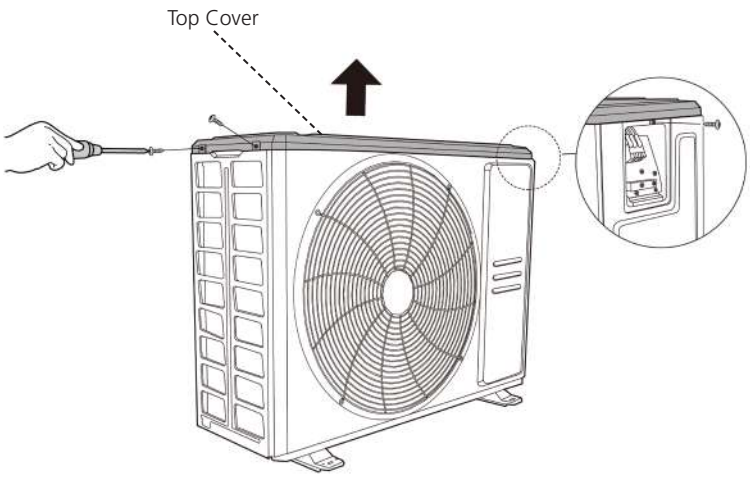
Contents

1. Dimension

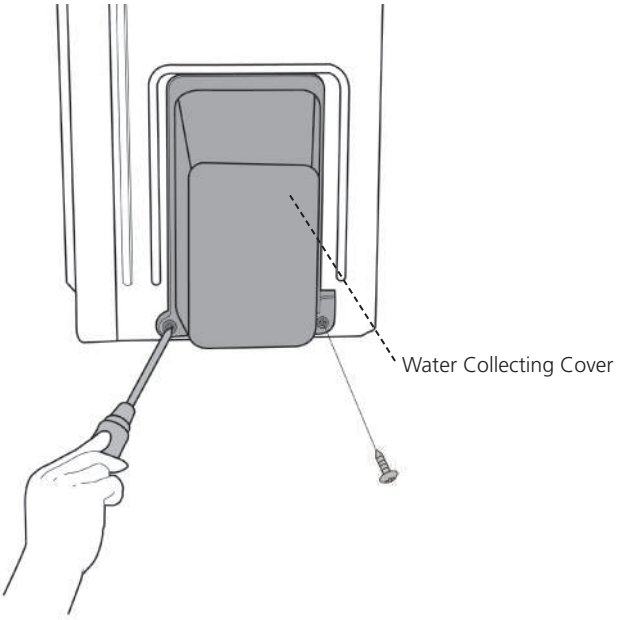
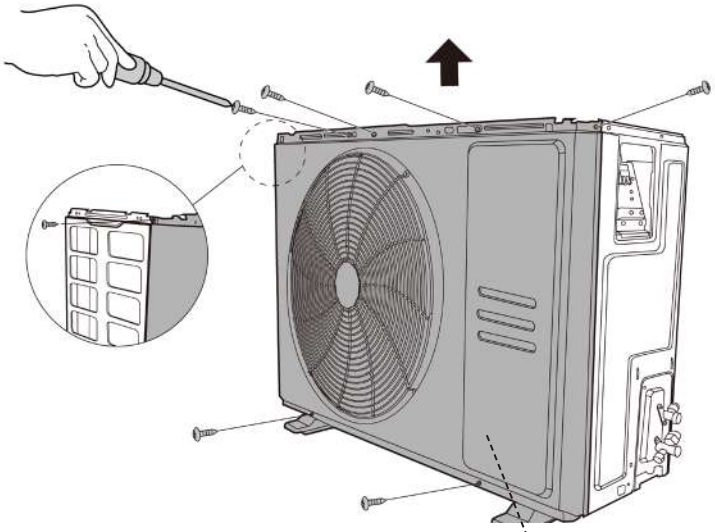

Bolt pitch for installation
[14.9] 380
[12.7] 323
[13.7] 349
[2.2] 56
[12.7] 323
Drain hole
[4.4] 112
Liquid refrigerant pipe joint
[0.7] 17
[2.4] 60
[4.2] 107
[10.4] 263
Gas refrigerant pipe joint
Handle
[35.3] 897
[14] 356
[13.5] 343
Bolt pitch for installation
[26.1] 663
[35] 890
[2.6] 66
Service panel
[26.5] 673
[0.5] 12
[13.5] 342
DETAIL A
SCALE 1:5
[0.5] 12
R[0.2] 6
[2.9] 74
DETAIL B
SCALE 1:5
[38.1] 969
[0.5] 12
[0.9] 24

2. Outdoor Unit Disassembly

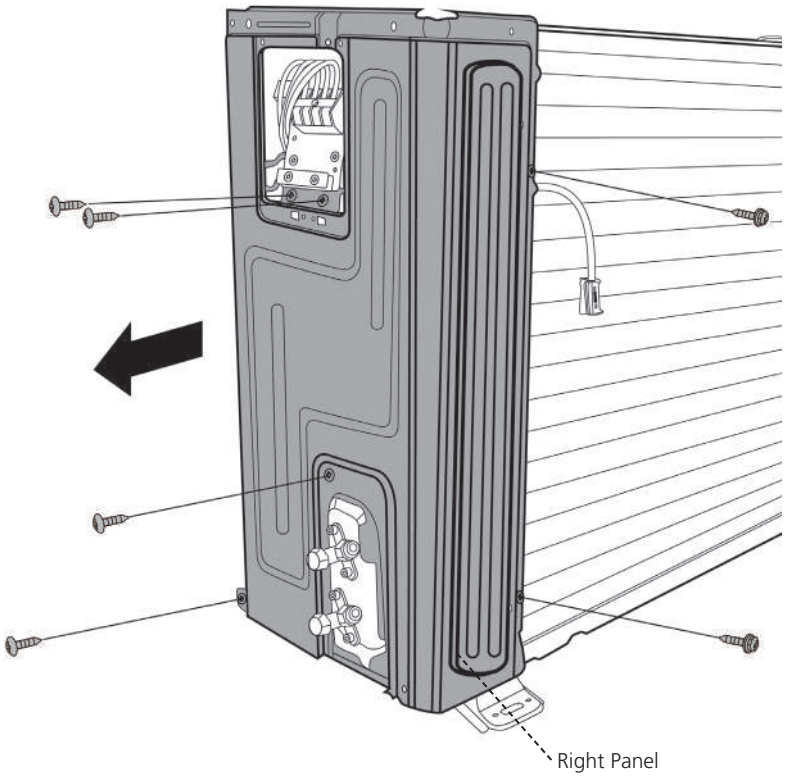
2.1 Panel Plate

Procedure	Illustration
1) Turn off the air conditioner and the power breaker. 2) Remove the screw of the big handle and then remove the big handle (3 screws) (see CJ_X430_001).	 **CJ_X430_001**
3) Remove the screws of the top cover and then remove the top cover (3 screws). One of the screws is located underneath the big handle (see CJ_X430_002).	 **CJ_X430_002**

Note: This section is for reference only. Actual unit appearance may vary.

Procedure	Illustration
4) Remove the screws of water collecting cover and then remove the water collecting cover (2 screws) (see CJ_X430_003).	 **CJ_X430_003**
5) Remove the screws of the front panel and then remove the front panel (7 screws(onoff models) or 9 screws(inverter models) (see CJ_X430_004).	 **CJ_X430_004**

Note: This section is for reference only. Actual unit appearance may vary.

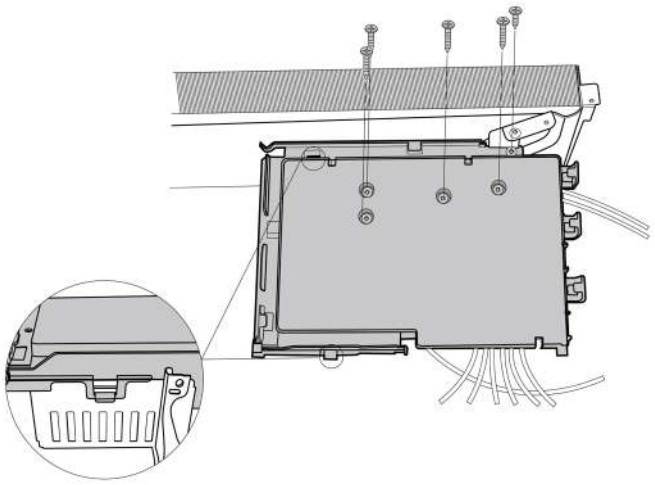
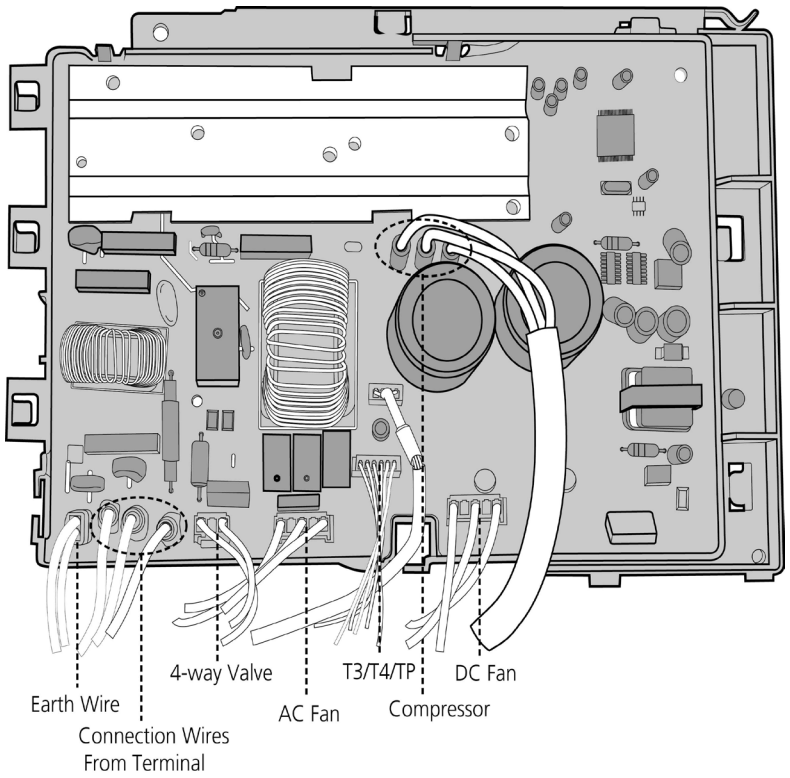
Procedure	Illustration
6) Remove the screws of the right panel and then remove the right panel (6 screws) (see CJ_X430_005).	 **CJ_X430_005**

Note: This section is for reference only. Actual unit appearance may vary.

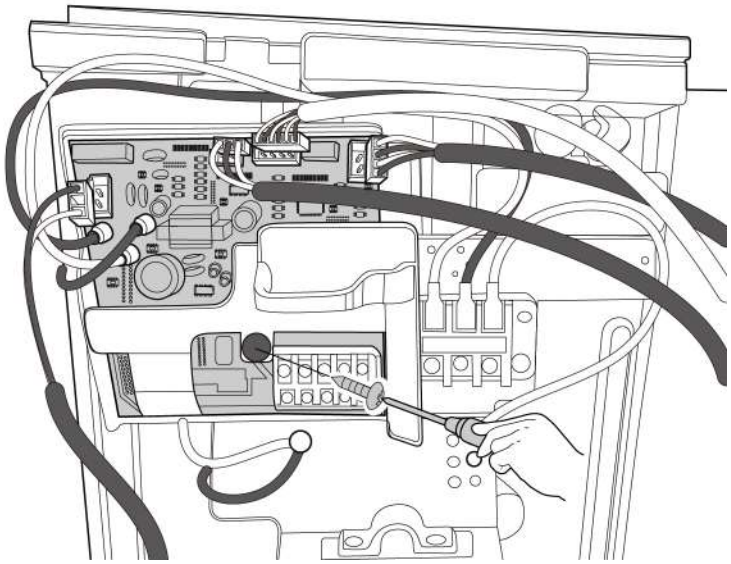
2.2 Electrical parts

WARNING: Antistatic gloves must be worn when you disassemble the electronic box.

Note: Remove the air outlet grille(refer to 2.1 Panel Plate) before disassembling electrical parts.

Procedure	Illustration
1) Remove the 5 screws and unfix two hooks.(see CJ_ODU_PCB_003-1). Note:Electric control box cover cannot be removed, so the voltage between P and N cannot be measured. 2) Disconnect the connector for fan motor from the electronic control board (see CJ_ODU_PCB_003-2). 3) Remove the connector for the compressor (see CJ_ODU_PCB_003-2). 4) Pull out the two blue wires connected with the four way valve (see CJ_ODU_PCB_003-2). 5) Pull out connectors of the condenser coil temp. sensor(T3),outdoor ambient temp. sensor(T4) and discharge temp. sensor(TP) (see CJ_ODU_PCB_003-2). 6) Disconnect the electronic expansion valve wire (see Fig CJ_ODU_PCB_003-2). 7) Remove the connector for the DR and reactor (see Fig CJ_ODU_PCB_003-2). 8) Then remove the electronic control board. Note: When replacing the electronic control board with a new one, pay attention to applying thermal paste on the heat sink.	 **CJ_ODU_PCB_003-1**  **CJ_ODU_PCB_003-2**

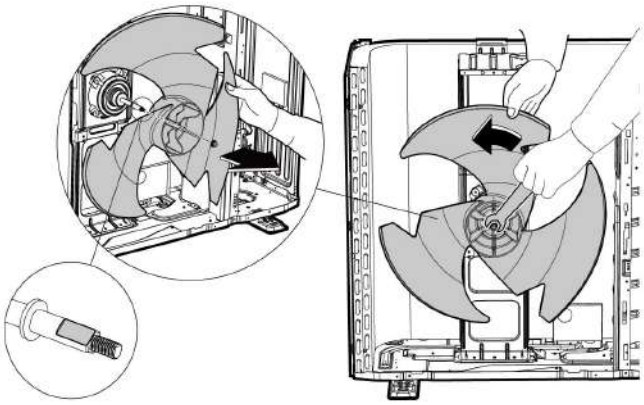
Note: This section is for reference only. Actual unit appearance may vary.

Procedure	Illustration
9) Remove the 1 screw and disconnect the wires and then remove the 24V board.(see CJ_ODU_PCB_003-3)(for some models)	 CJ_ODU_PCB_003-3(for some models)

Note: This section is for reference only. Actual unit appearance may vary.

2.3 Fan Assembly

Note: Remove the panel plate (refer to 2.1 Panel Plate) before disassembling fan.

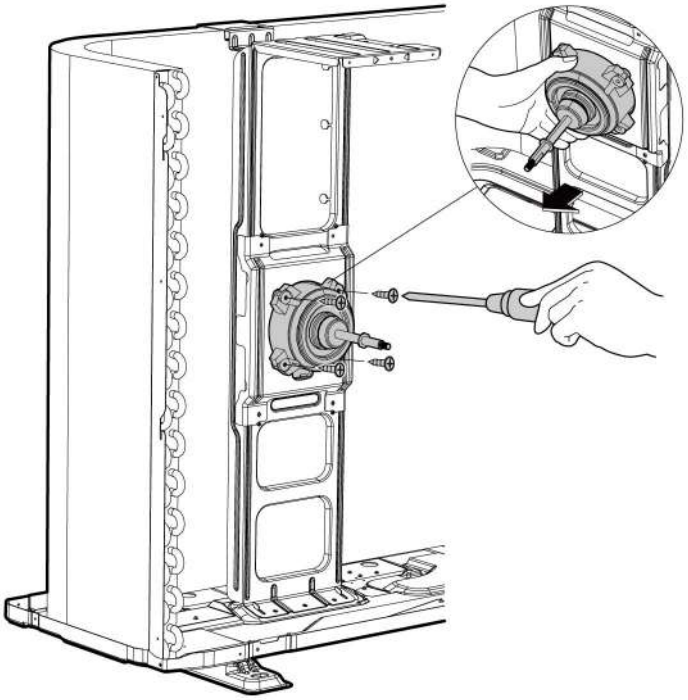
Procedure	Illustration
1) Remove the nut securing the fan with a spanner (see CJ_ODU_FAN_001). 2) Remove the fan.	

CJ_ODU_FAN_001

Note: This section is for reference only. Actual unit appearance may vary.

2.4 Fan Motor

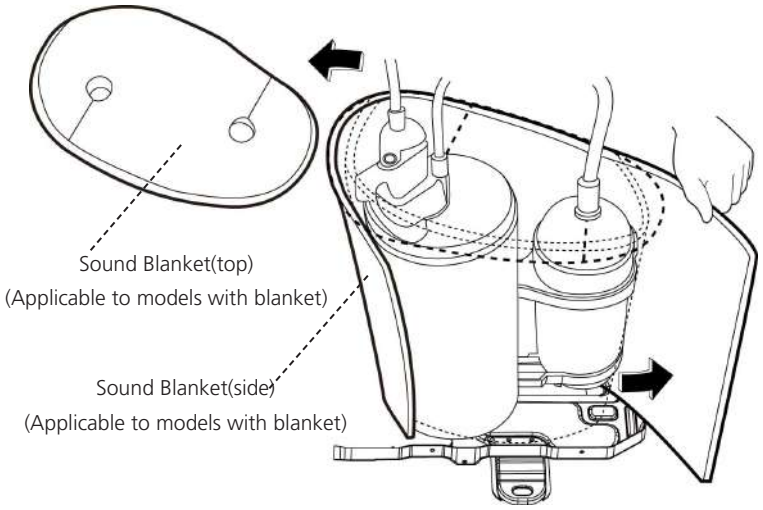
Note: Remove the panel plate and the connection of fan motor on PCB (refer to 2.1 Panel Plate and 2.2 Electrical parts) before disassembling fan motor.

Procedure	Illustration
3) Remove the fixing screws of the fan motor (4 screws) (see CJ_ODU_MOTOR_001). 4) Remove the fan motor.	 **CJ_ODU_MOTOR_001**

Note: This section is for reference only. Actual unit appearance may vary.

2.5 Sound blanket

Note: Remove the panel plate (refer to 2.1 Panel plate) before disassembling sound blanket.

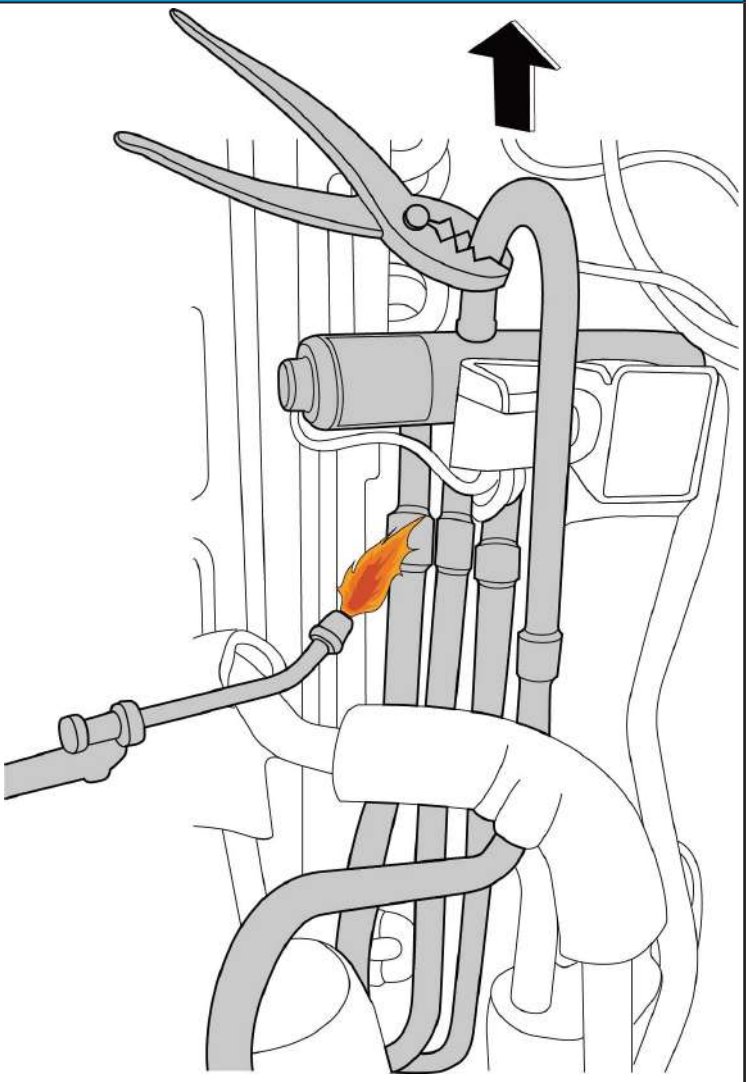
Procedure	Illustration
1) Remove the sound blanket (side and top) (see CJ_ODU_BLANKET_001).	 **CJ_ODU_BLANKET_001**

Note: This section is for reference only. Actual unit appearance may vary.

2.6 Four-way valve (for heat pump models)

WARNING: Evacuate the system and confirm that there is no refrigerant left in the system before removing the four-way valve and the compressor. (For R32 & R290, you should evacuate the system with the vacuum pump; flush the system with nitrogen; then repeat the two steps before heating up the brazed parts. The operations above should be implemented by professionals.)

Note: Remove the panel plate, connection of four-way valve on PCB (refer to 2.1 Panel plate and 2.2 Electrical parts) before disassembling sound blanket.

Procedure	Illustration
1) Heat up the brazed parts and then detach the the four-way valve and the pipe (see CJ_ODU_VALVE_001). 2) Remove the four-way valve assembly with pliers.	

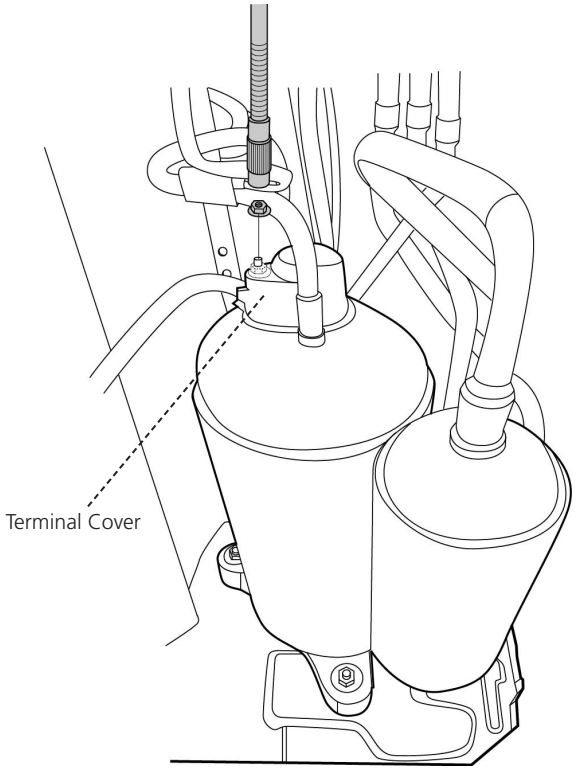
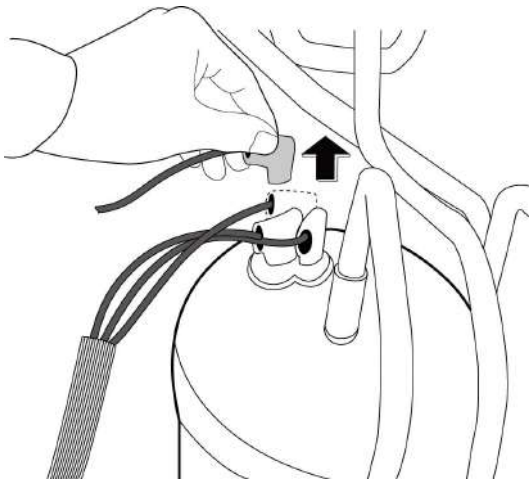
CJ_ODU_VALVE_001

Note: This section is for reference only. Actual unit appearance may vary.

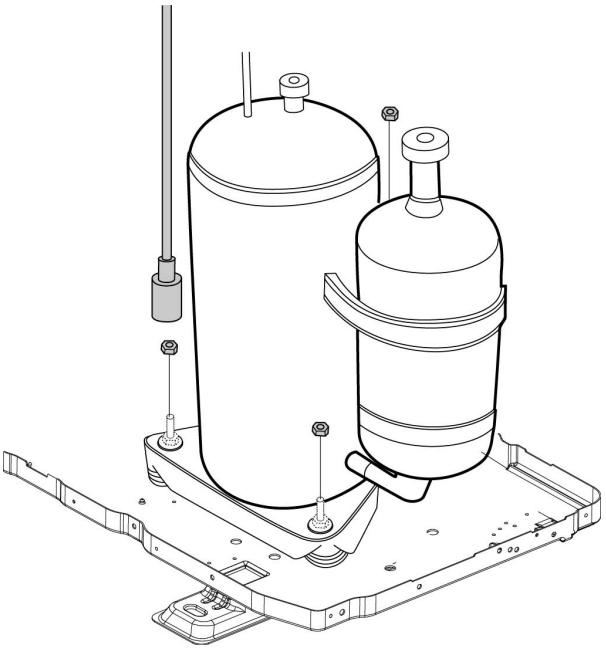
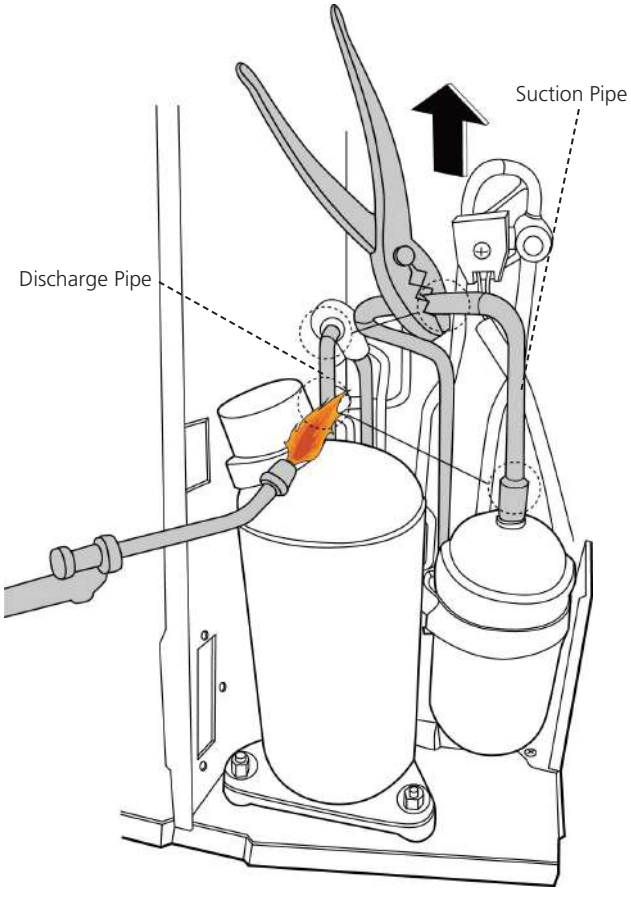
2.7 Compressor

WARNING: Evacuate the system and confirm that there is no refrigerant left in the system before removing the four-way valve and the compressor. (For R32 & R290, you should evacuate the system with the vacuum pump; flush the system with nitrogen; then repeat the two steps before heating up the brazed parts. The operations above should be implemented by professionals.)

Note: Remove the panel plate, connection of compressor on PCB (refer to 2.1 Panel plate and 2.2 Electrical parts) before disassembling sound blanket.

Procedure	Illustration
1) Remove the flange nut of terminal cover and remove the terminal cover (see CJ_ ODU_COMP_001).	 CJ_ODU_COMP_001
2) Disconnect the connectors (see CJ_ODU_ COMP_002).	 CJ_ODU_COMP_002

Note: This section is for reference only. Actual unit appearance may vary.

Procedure	Illustration
3) Remove the hex nuts and washers securing the compressor, located on the bottom plate (see CJ_ODU_COMP_003).	 CJ_ODU_COMP_003
4) Heat up the brazed parts and then remove the the discharge pipe and the suction pipe (see CJ_ODU_COMP_004). 5) Lift the compressor from the base pan assembly with pliers.	 CJ_ODU_COMP_004

Note: This section is for reference only. Actual unit appearance may vary.