

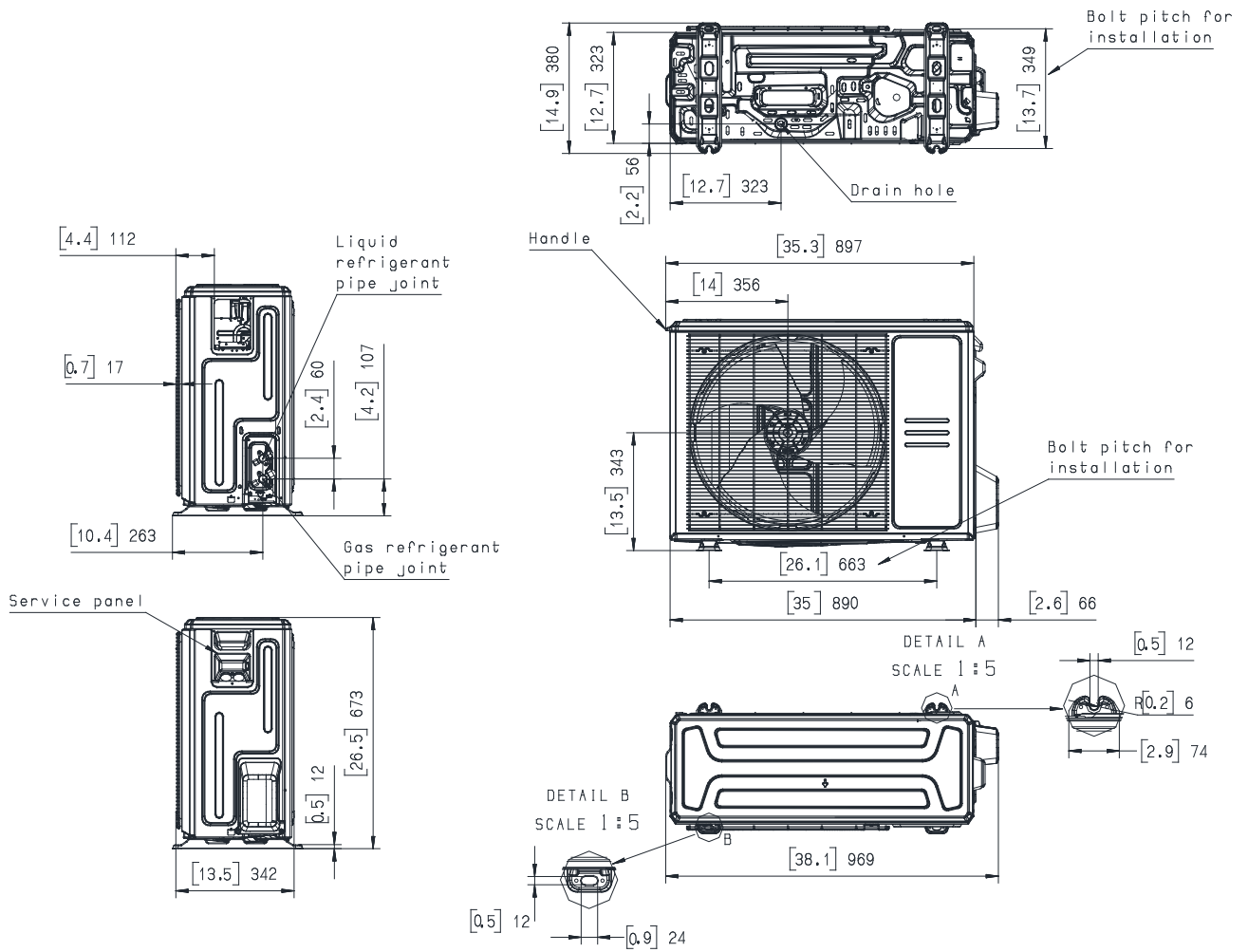
Outdoor Unit Disassembly

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

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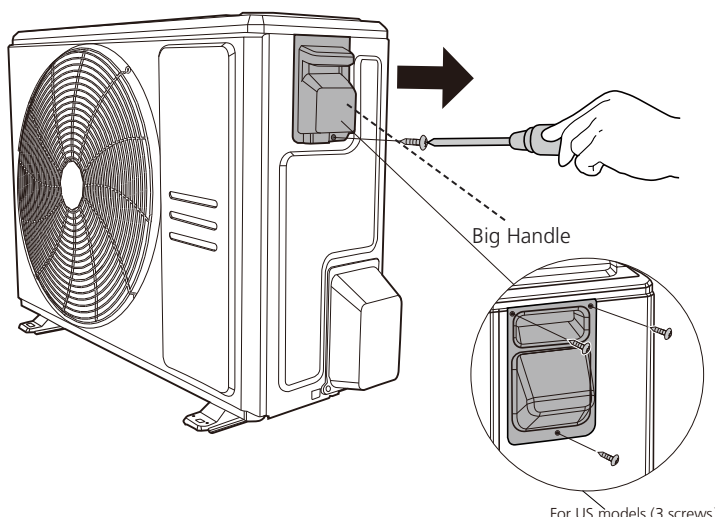
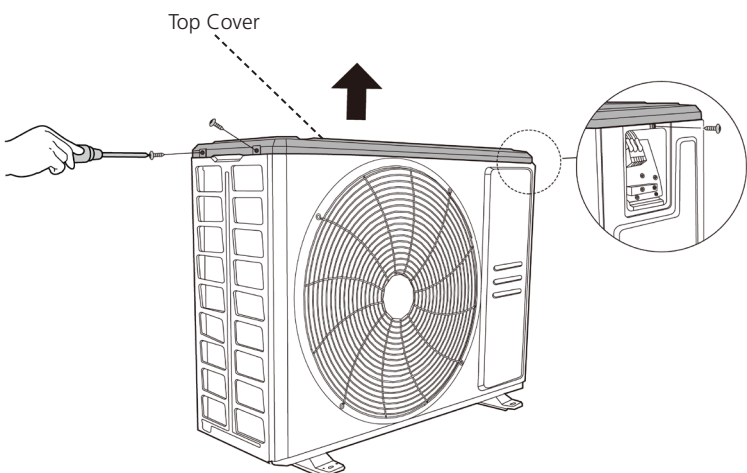
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1. Dimension

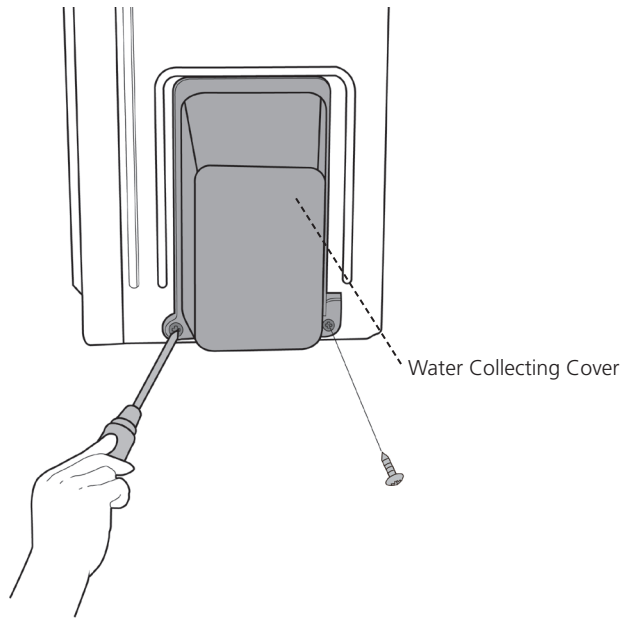
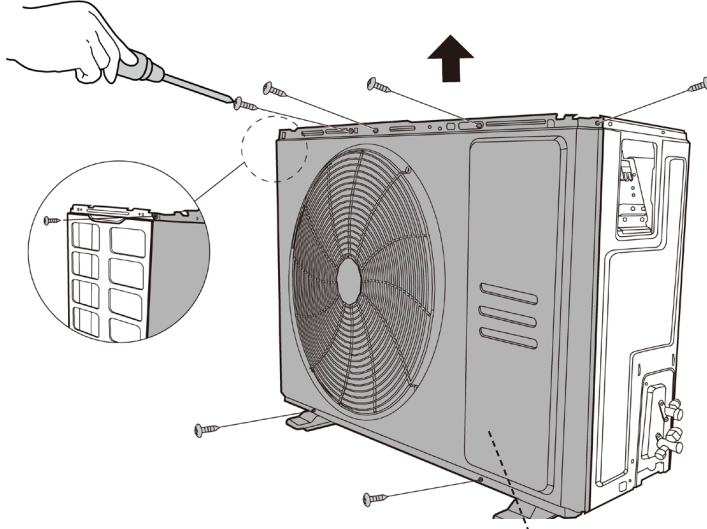


2. Outdoor Unit Disassembly

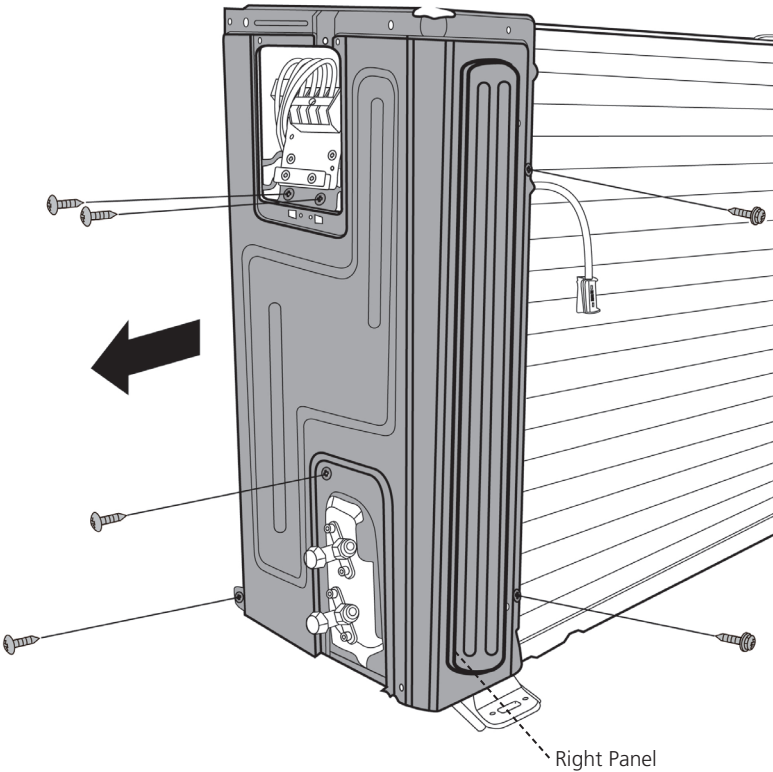
2.1 Panel Plate

Procedure	Illustration
<p>1) Turn off the air conditioner and the power breaker.</p> <p>2) Remove the screw of the big handle and then remove the big handle (3 screws) (see CJ_X430_001).</p>	 <p style="text-align: center;">CJ_X430_001</p>
<p>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).</p>	 <p style="text-align: center;">CJ_X430_002</p>

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

Procedure	Illustration
<p>4) Remove the screws of water collecting cover and then remove the water collecting cover (2 screws) (see CJ_X430_003).</p>	 <p style="text-align: center;">CJ_X430_003</p>
<p>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).</p>	 <p style="text-align: center;">CJ_X430_004 Front Panel</p>

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

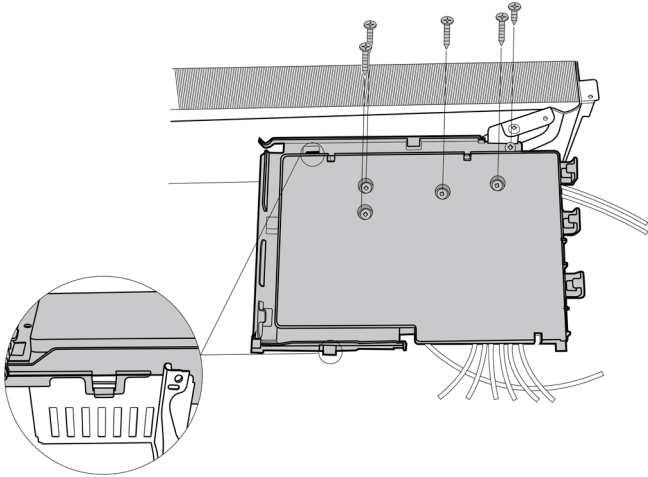
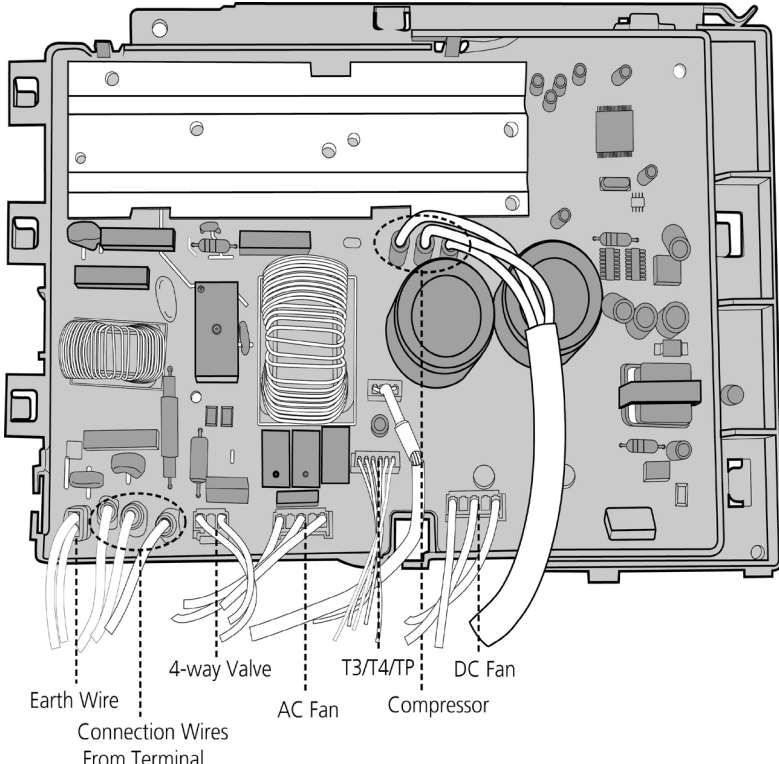
Procedure	Illustration
<p>6) Remove the screws of the right panel and then remove the right panel (6 screws) (see CJ_X430_005).</p>	 <p data-bbox="932 1160 1102 1189">CJ_X430_005</p>

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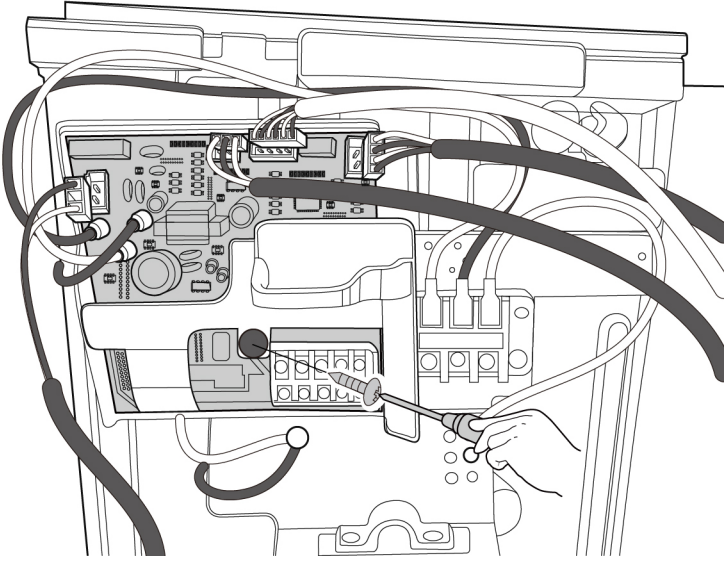
2.2 Electrical parts

⚠ 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
<p>1) Remove the 5 screws and unfix two hooks.(see CJ_ODU_PCB_003-1).</p> <p>Note:Electric control box cover cannot be removed, so the voltage between P and N cannot be measured.</p> <p>2) Disconnect the connector for fan motor from the electronic control board (see CJ_ODU_PCB_003-2).</p> <p>3) Remove the connector for the compressor (see CJ_ODU_PCB_003-2).</p> <p>4) Pull out the two blue wires connected with the four way valve (see CJ_ODU_PCB_003-2).</p> <p>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).</p> <p>6) Disconnect the electronic expansion valve wire (see Fig CJ_ODU_PCB_003-2).</p> <p>7) Remove the connector for the DR and reactor (see Fig CJ_ODU_PCB_003-2).</p> <p>8) Then remove the electronic control board.</p> <p>Note: When replacing the electronic control board with a new one, pay attention to applying thermal paste on the heat sink.</p>	 <p style="text-align: center;">CJ_ODU_PCB_003-1</p>  <p style="text-align: center;">CJ_ODU_PCB_003-2</p>

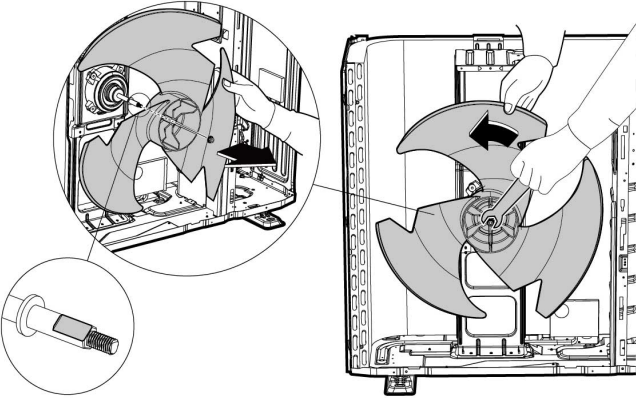
Note: This section is for reference only. Actual unit appearance may vary.

Procedure	Illustration
<p>9) Remove the 1 screw and disconnect the wires and then remove the 24V board.(see CJ_ODU_PCB_003-3)(for some models)</p>	 <p data-bbox="762 987 1257 1021">CJ_ODU_PCB_003-3(for some models)</p>

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

2.3 Fan Assembly

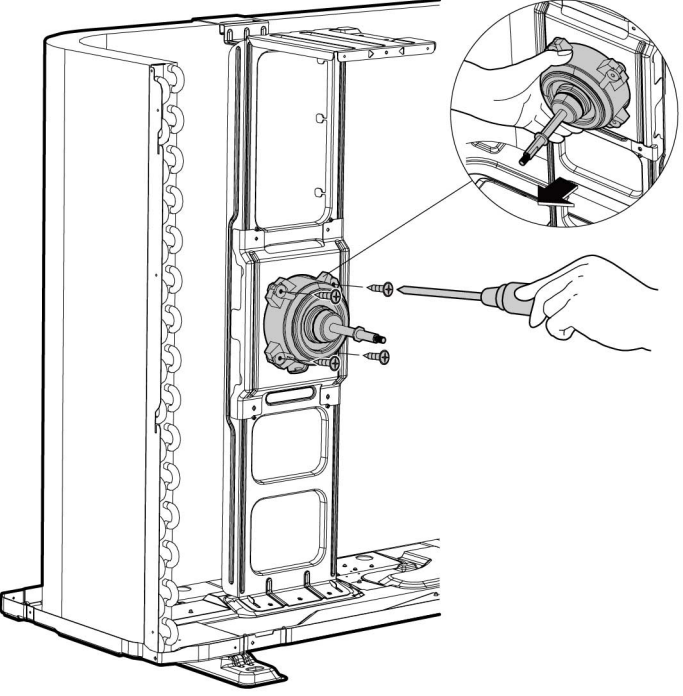
Note: Remove the panel plate (refer to 2.1 Panel Plate) before disassembling fan.

Procedure	Illustration
<p>1) Remove the nut securing the fan with a spanner (see CJ_ODU_FAN_001).</p> <p>2) Remove the fan.</p>	 <p data-bbox="890 1003 1125 1032">CJ_ODU_FAN_001</p>

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

2.4 Fan Motor

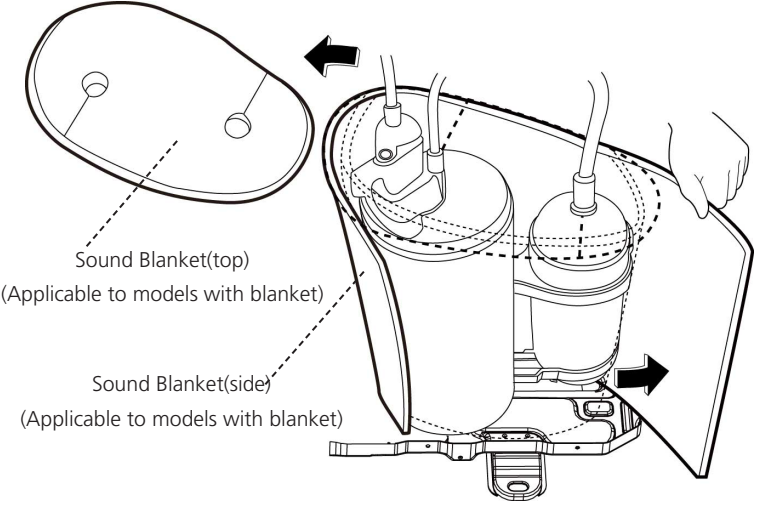
Note: Remove the panel plate and the connection of fan motor on PCB (refer to 2.1 Panel Plate and 2.2 Electrical parts) before disassembling fan motor.

Procedure	Illustration
<p>3) Remove the fixing screws of the fan motor (4 screws) (see CJ_ODU_MOTOR_001).</p> <p>4) Remove the fan motor.</p>	 <p>The illustration shows a side view of an outdoor unit with the fan motor assembly highlighted. A hand is shown using a screwdriver to remove one of the four screws that secure the fan motor to the unit's frame. A circular inset provides a magnified view of the fan motor being held in place by the screws. The unit's internal structure, including the fan blades and electrical components, is visible.</p> <p data-bbox="898 1234 1182 1267">CJ_ODU_MOTOR_001</p>

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.

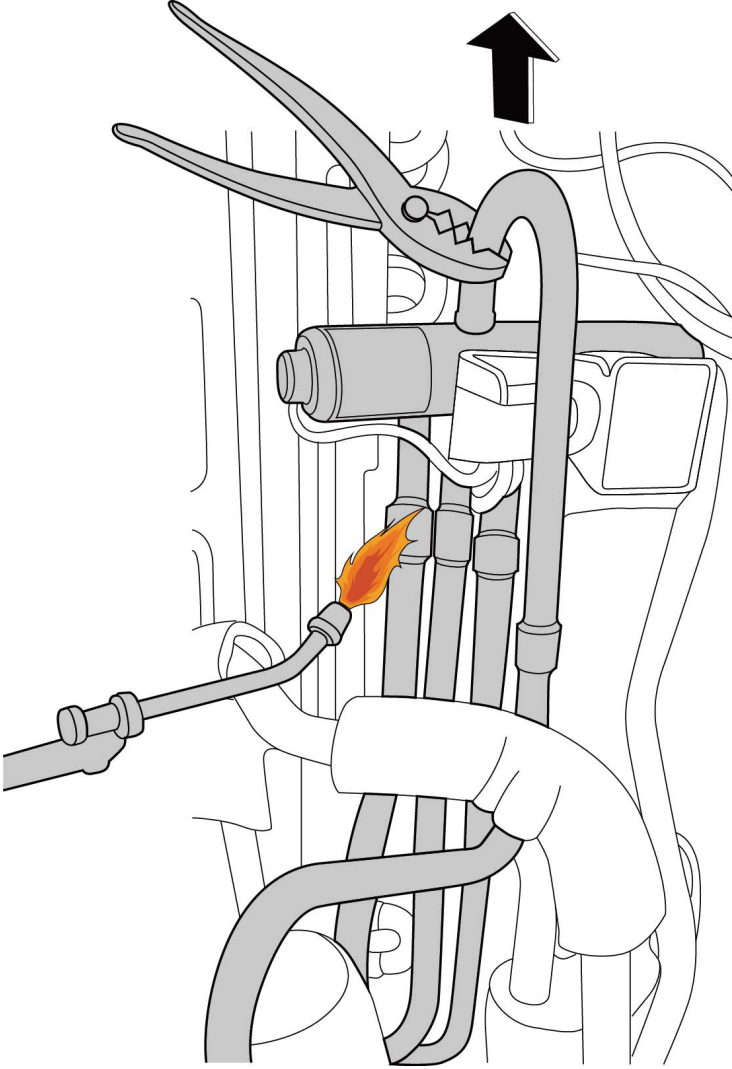
Procedure	Illustration
1) Remove the sound blanket (side and top) (see CJ_ODU_BLANKET_001).	 <p>Sound Blanket(top) (Applicable to models with blanket)</p> <p>Sound Blanket(side) (Applicable to models with blanket)</p> <p>CJ_ODU_BLANKET_001</p>

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.

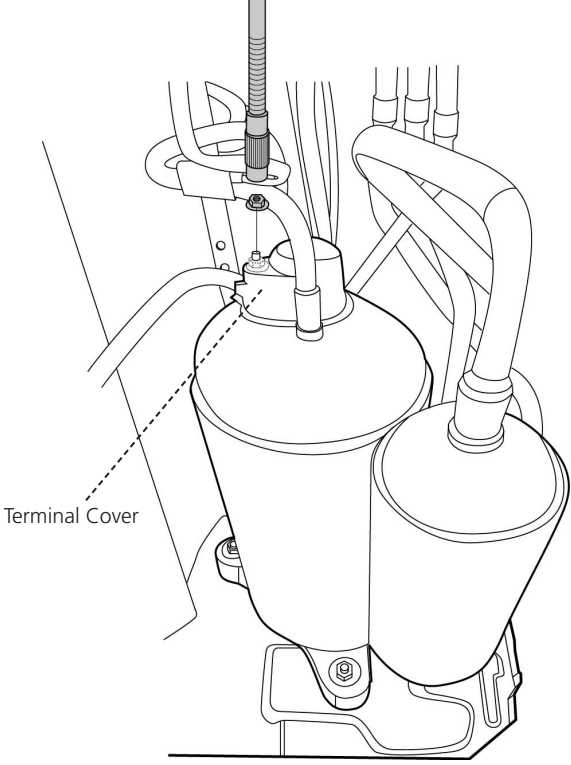
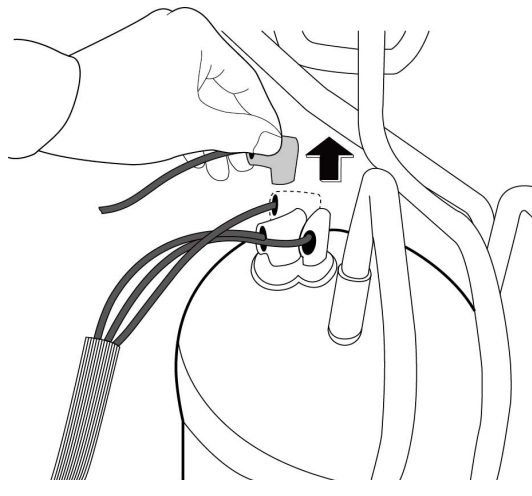
Procedure	Illustration
<ol style="list-style-type: none">1) Heat up the brazed parts and then detach the the four-way valve and the pipe (see CJ_ODU_VALVE_001).2) Remove the four-way valve assembly with pliers.	 <p data-bbox="909 1691 1173 1724">CJ_ODU_VALVE_001</p>

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

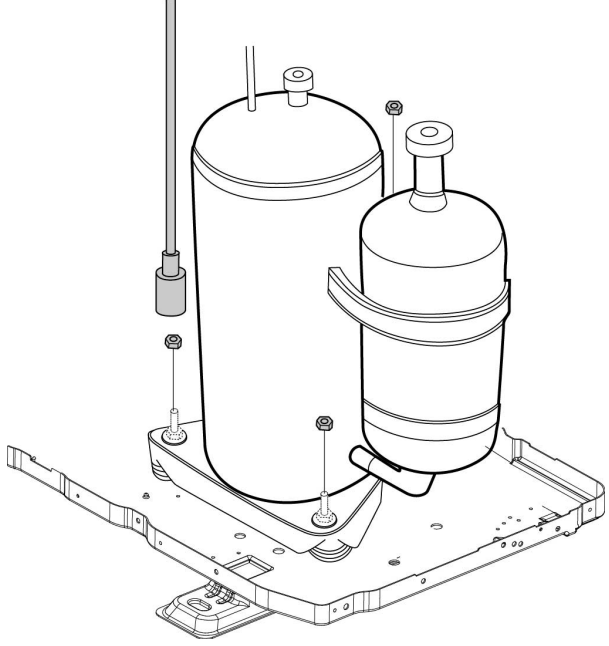
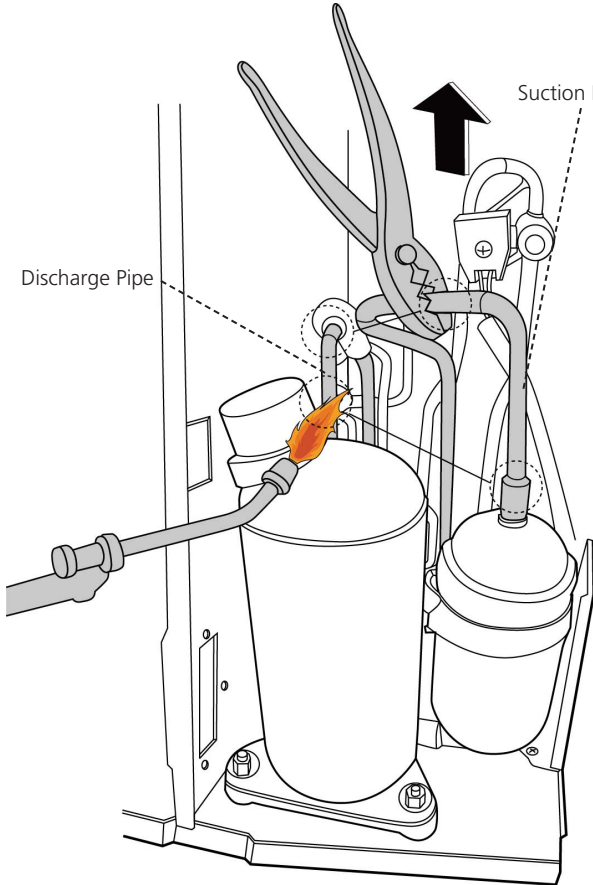
2.7 Compressor

⚠ 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).	 <p>The diagram shows a top-down view of the compressor assembly. A terminal cover is being removed from the top of the compressor. A dashed line points to the terminal cover. The label 'Terminal Cover' is placed next to the dashed line. The compressor is connected to various pipes and hoses.</p> <p style="text-align: center;">CJ_ODU_COMP_001</p>
2) Disconnect the connectors (see CJ_ODU_COMP_002).	 <p>The diagram shows a close-up view of the electrical connectors on the compressor. A hand is shown pulling a connector away from the terminal block. An upward-pointing arrow indicates the direction of removal. The label 'CJ_ODU_COMP_002' is placed below the diagram.</p> <p style="text-align: center;">CJ_ODU_COMP_002</p>

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

Procedure	Illustration
<p>3) Remove the hex nuts and washers securing the compressor, located on the bottom plate (see CJ_ODU_COMP_003).</p>	 <p style="text-align: center;">CJ_ODU_COMP_003</p>
<p>4) Heat up the brazed parts and then remove the the discharge pipe and the suction pipe (see CJ_ODU_COMP_004).</p> <p>5) Lift the compressor from the base pan assembly with pliers.</p>	 <p style="text-align: center;">CJ_ODU_COMP_004</p>

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