

DISASSEMBLY INSTRUCTIONS



Models:
MHD-18
MHD-24

Servicing of the unit must be performed by a qualified service technician.

Dettson Industries Inc.
Sherbrooke, Qc, Canada
www.dettson.com

Table of Contents

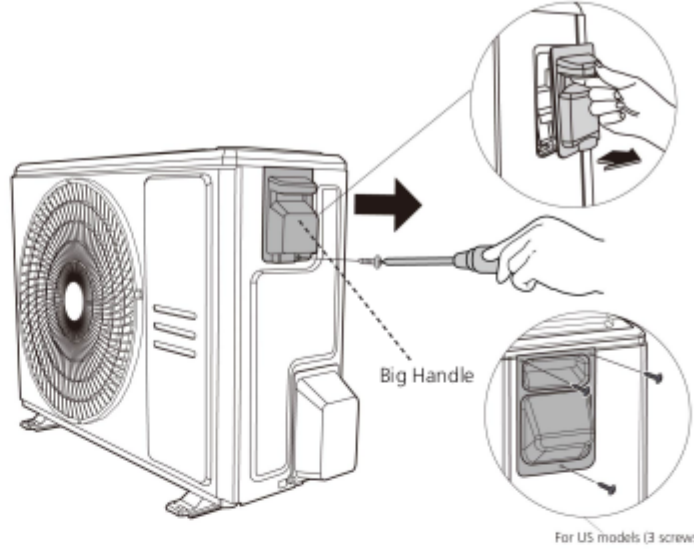
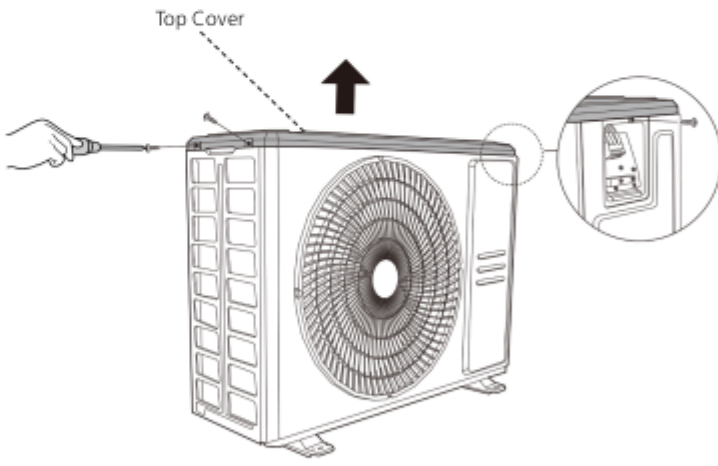
1	Warning	2
2	Disassembly of Panels	3
2.1	MHD-18	3
2.2	MHD-24	6
3	Disassembly of Electric Box	10
3.1	MHD-18	10
3.2	MHD-24	11
4	Disassembly of Fan	12
5	Disassembly of Motor	13
6	Disassembly of Sound Blanket	14
7	Disassembly of Four-Way Valve	15
8	Disassembly of Compressor	16

1 Warning

Follow all safety information provided in the outdoor unit manual X62434.
Make sure the power to the unit is turned off at all time during disassembly.

2 Disassembly of Panels

2.1 MHD-18

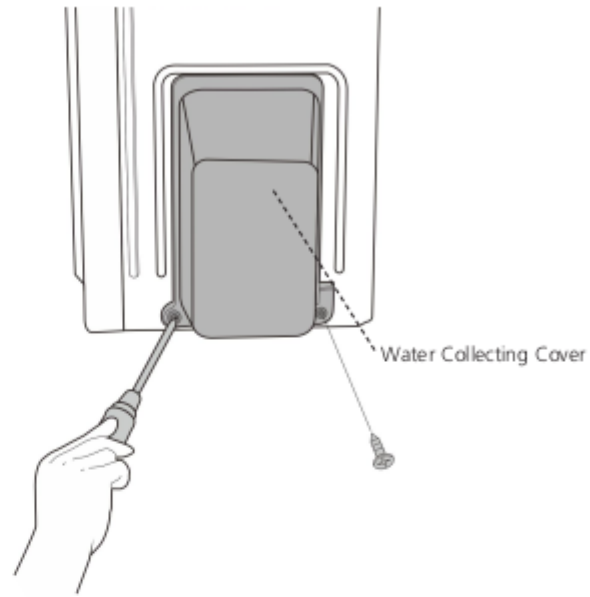
Procedure	Illustration
<p>1) Turn off the air conditioner and the power breaker.</p> <p>2) Remove the screw of the big handle and then remove the big handle (1 screw) (see CJ_X430_001).</p>	 <p data-bbox="917 987 1079 1018">CJ_X430_001</p>
<p>3) Remove the screws of the top cover and then remove the top cover (3 screws). One of the screws is located underneath the big handle (see CJ_X430_002).</p>	 <p data-bbox="917 1711 1079 1743">CJ_X430_002</p>

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

Procedure

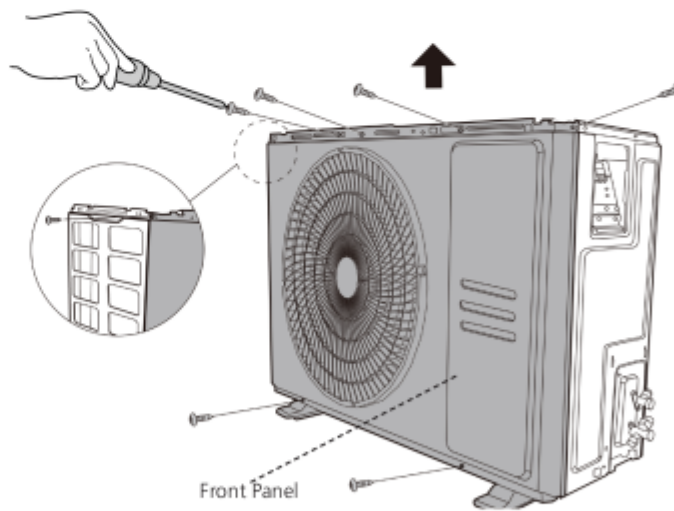
- 4) Remove the screws of water collecting cover and then remove the water collecting cover (2 screws) (see CJ_X430_003).

Illustration



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).

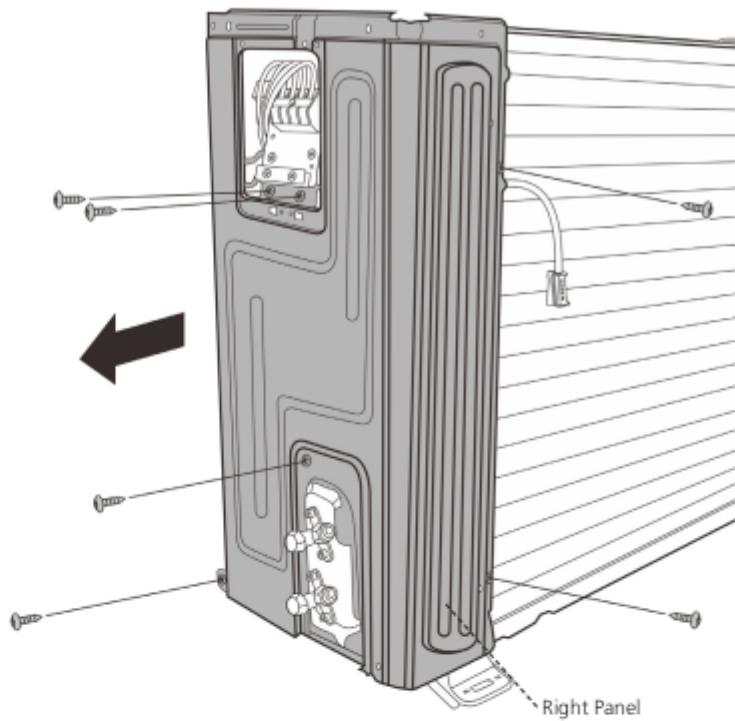


CJ_X430_004

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

Procedure

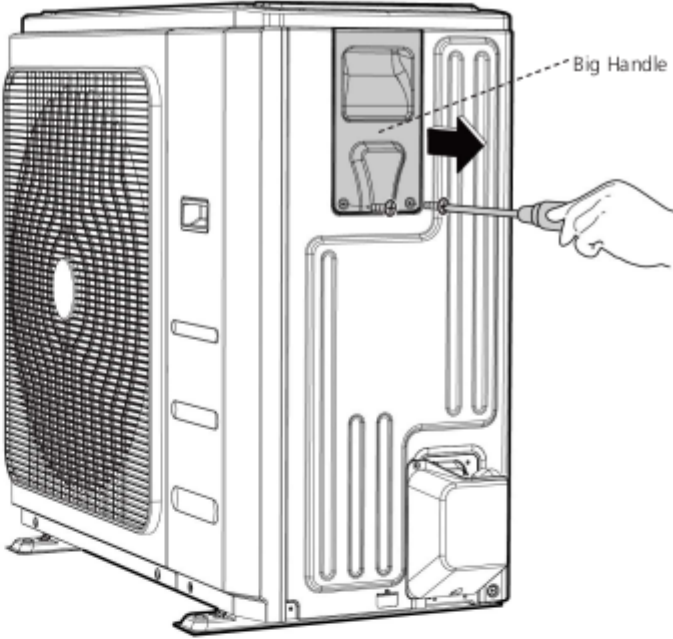

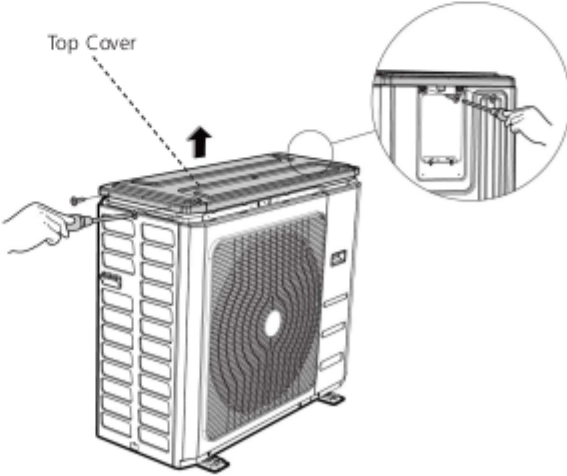
- 6) Remove the screws of the right panel and then remove the right panel (6 screws) (see CJ_X430_005).

Illustration

CJ_X430_005

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

2.2 MHD-24

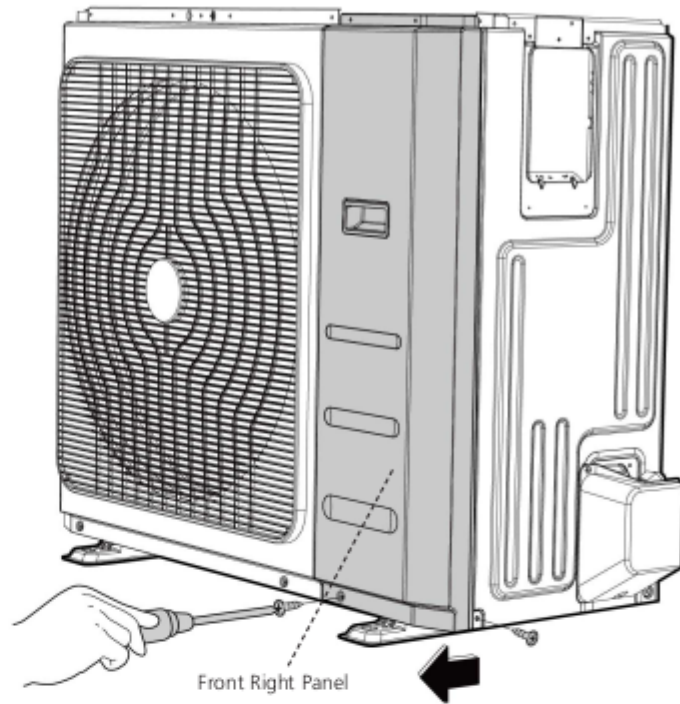
Procedure	Illustration
<p>1) Turn off the air conditioner and the power breaker.</p> <p>2) Remove the screws of the big handle and then remove the big handle (2 screws) (see CJ_D30_001).</p>	 <p>Big Handle</p>  <p>For US models (3 screws)</p> <p>CJ_D30_001</p>
<p>3) Remove the screws of the top cover and then remove the top cover (4 screws). Two of the screws is located underneath the big handle (see CJ_D30_002).</p>	 <p>Top Cover</p> <p>CJ_D30_002</p>

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

Procedure

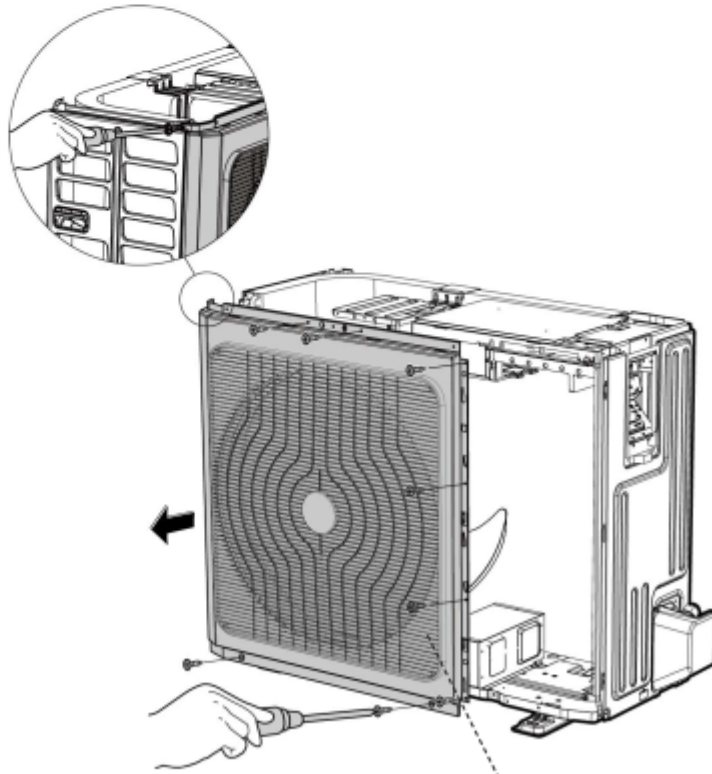
- 4) Remove the screws of the front right panel and then remove the front right panel (2 screws) (see CJ_D30_003).

Illustration



CJ_D30_003

- 5) Remove the screws of the front panel and then remove the front panel (9 screws) (see CJ_D30_004).



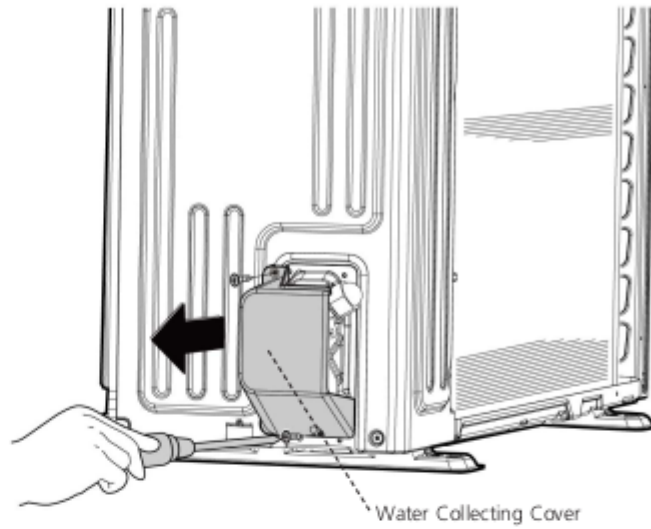
CJ_D30_004

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

Procedure

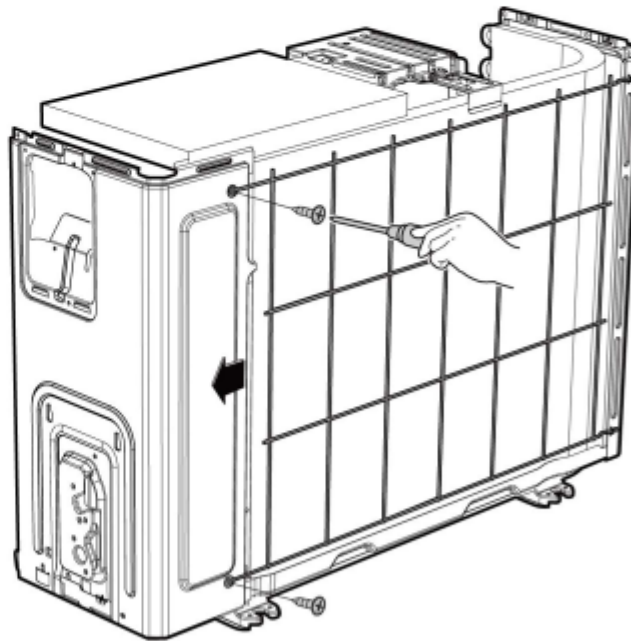
Illustration

- 6) Remove the screws of water collecting cover and then remove the water collecting cover (2 screw) (see CJ_D30_005).



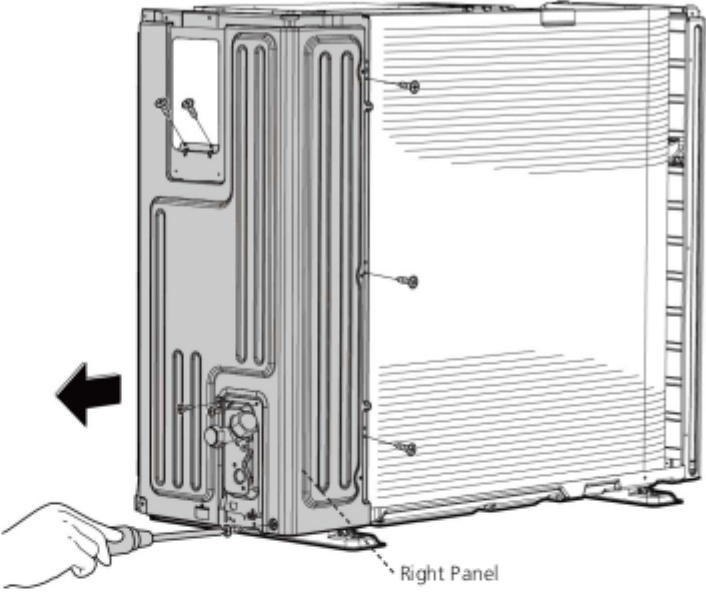
CJ_D30_005

- 7) Remove the screws of the rear net and then remove the rear net (2 screws) (see CJ_D30_006). (for some models)



CJ_D30_006

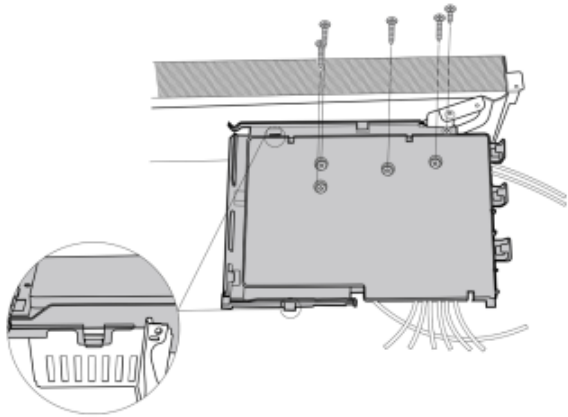
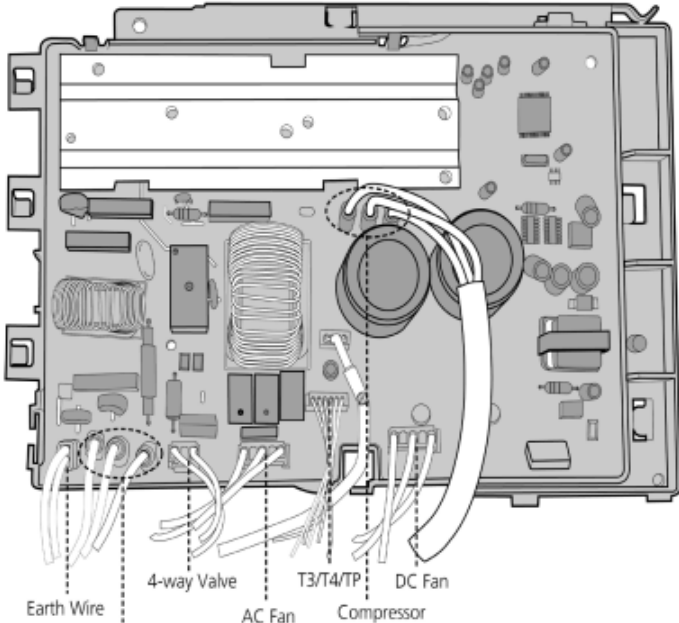
Note: This section is for reference only. Actual unit appearance may vary.

Procedure	Illustration
<p>8) Remove the screws of the right panel and then remove the right panel (8 screws) (see CJ_D30_007).</p>	 <p data-bbox="915 919 1065 953">CJ_D30_007</p>

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

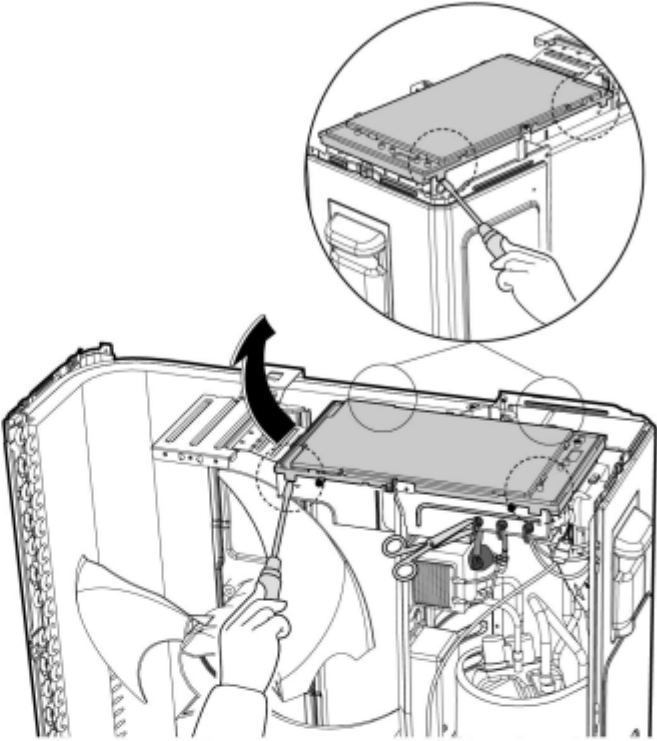
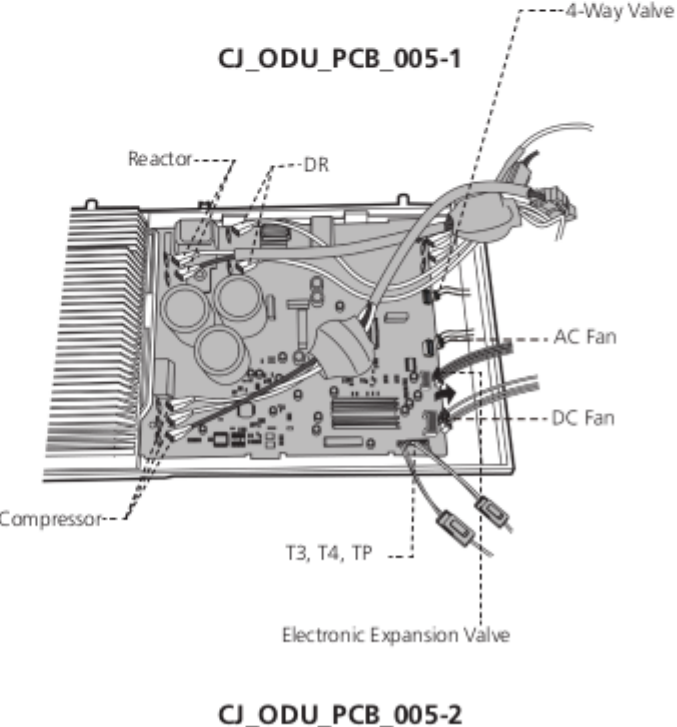
3 Disassembly of Electric Box

3.1 MHD-18

Procedure	Illustration
<p>1) Remove the screws and unfix the hooks, then open the electronic control box cover (5 screws and 2 hooks) (see CJ_ODU_PCB_006-1).</p>	 <p style="text-align: center;">CJ_ODU_PCB_006-1</p>
<p>2) Disconnect the connector for fan motor from the electronic control board (see CJ_ODU_PCB_006-2).</p> <p>3) Remove the connector for the compressor (see CJ_ODU_PCB_006-2).</p> <p>4) Pull out the two blue wires connected with the four way valve (see CJ_ODU_PCB_006-2).</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_006-2).</p> <p>6) Disconnect the electronic expansion valve wire (see Fig CJ_ODU_PCB_006-2).</p> <p>7) Remove the connector for the DR and reactor (see Fig CJ_ODU_PCB_006-2).</p> <p>8) Then remove the electronic control board.</p>	 <p style="text-align: center;">CJ_ODU_PCB_006-2</p>

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

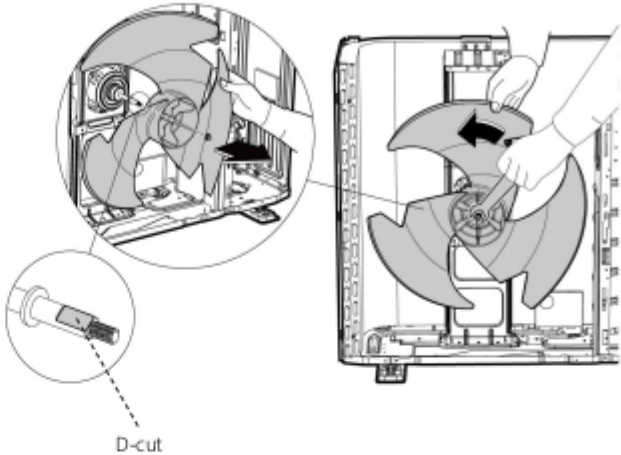
3.2 MHD-24

Procedure	Illustration
<p>1) Unfix the hooks and then open the electronic control box cover (4 hooks) (see CJ_ODU_PCB_005-1).</p>	
<p>2) Disconnect the connector for fan motor from the electronic control board (see CJ_ODU_PCB_005-2).</p> <p>3) Remove the connector for the compressor (see CJ_ODU_PCB_005-2).</p> <p>4) Pull out the two blue wires connected with the four way valve (see CJ_ODU_PCB_005-2).</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_005-2).</p> <p>6) Disconnect the electronic expansion valve wire (see Fig CJ_ODU_PCB_005-2).</p> <p>7) Then remove the electronic control board.</p>	 <p>CJ_ODU_PCB_005-1</p> <p>CJ_ODU_PCB_005-2</p>

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

4 Disassembly of Fan

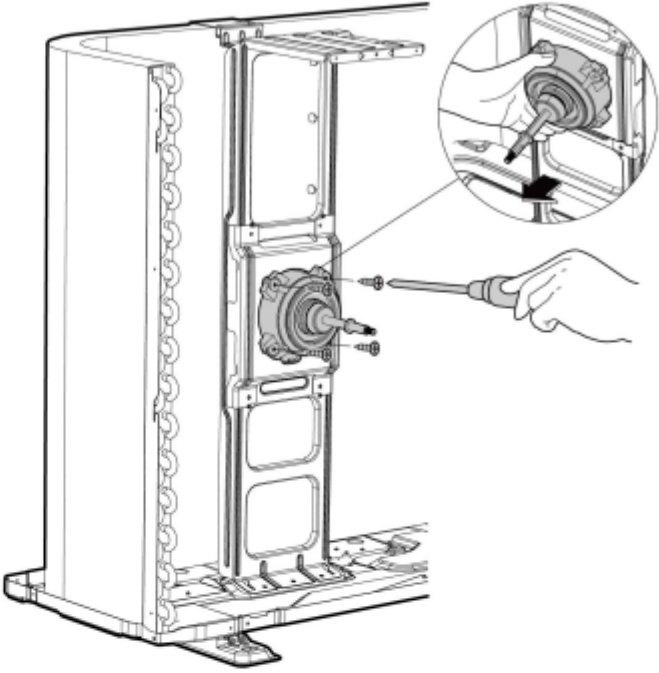
Note: Remove the panel plate (refer to 3.1 Panel Plate) before disassembling fan.

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="873 951 1101 982">CJ_ODU_FAN_001</p>

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

5 Disassembly of Motor

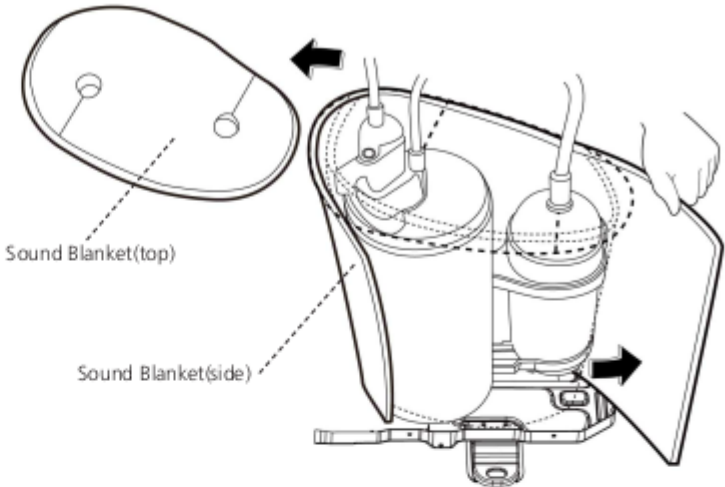
Note: Remove the panel plate and the connection of fan motor on PCB (refer to 3.1 Panel Plate and 3.2 Electrical parts) before disassembling fan motor.

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 a vertical metal chassis with a fan motor mounted on the front panel. A hand is using a screwdriver to remove one of the four screws that secure the motor. A circular inset provides a magnified view of the screwdriver tip engaged with the screw head. Below the illustration is the label 'CJ_ODU_MOTOR_001'.</p> <p data-bbox="878 1171 1146 1203">CJ_ODU_MOTOR_001</p>

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

6 Disassembly of Sound Blanket

Note: Remove the panel plate (refer to 3.1 Panel plate) before disassembling sound blanket.

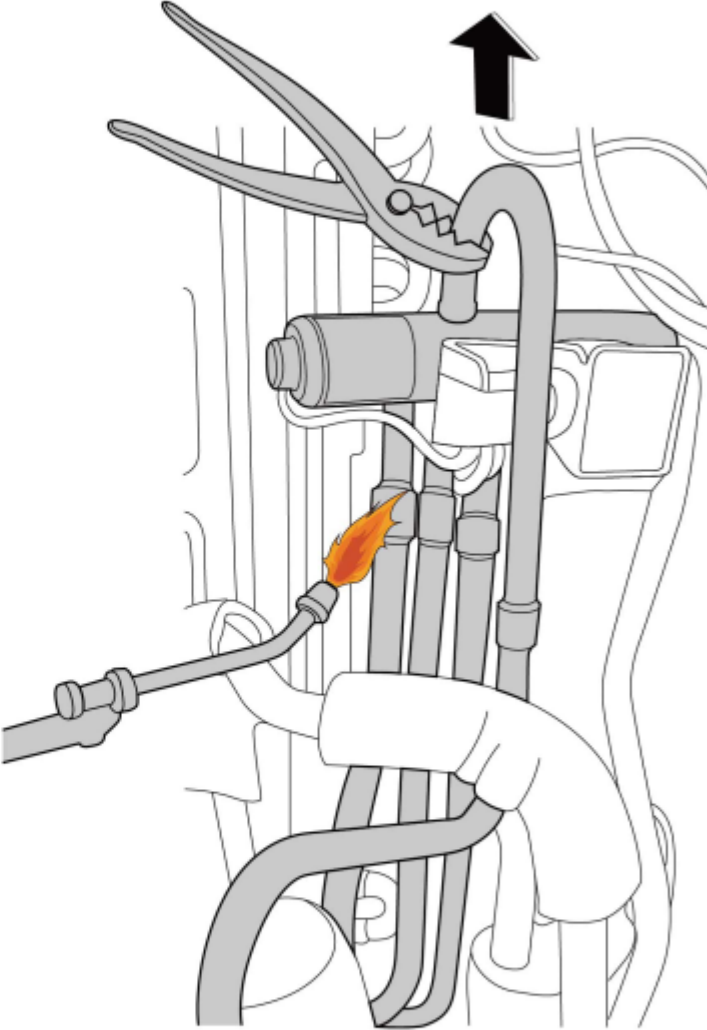
Procedure	Illustration
1) Remove the sound blanket (side and top) (see CJ_ODU_BLANKET_001).	 <p data-bbox="841 936 1130 968">CJ_ODU_BLANKET_001</p>

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

7 Disassembly of Four-Way Valve

⚠ 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 3.1 Panel plate and 3.2 Electrical parts) before disassembling sound blanket.

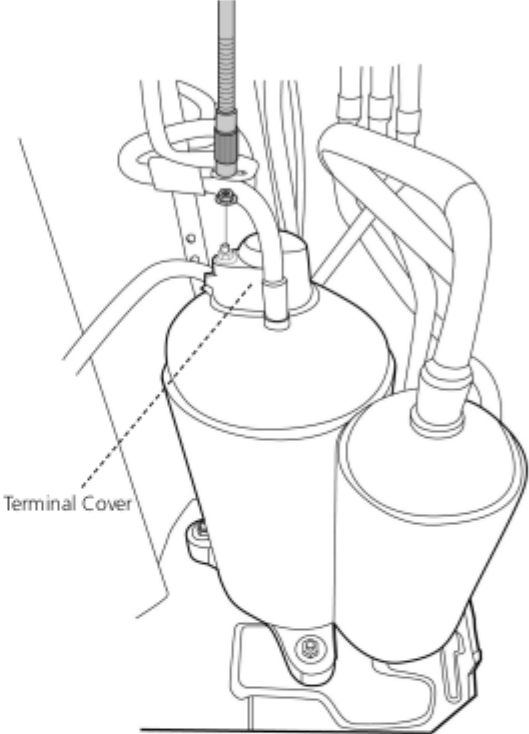
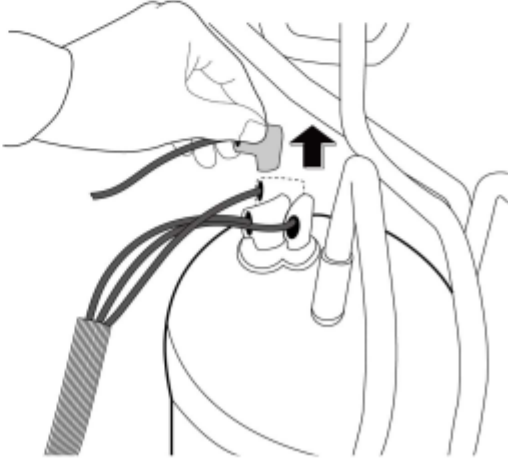
Procedure	Illustration
<ol style="list-style-type: none">1) Heat up the brazed parts and then detach the the four-way valve and the pipe (see CJ_ODU_VALVE_001).2) Remove the four-way valve assembly with pliers.	 <p data-bbox="883 1629 1133 1661">CJ_ODU_VALVE_001</p>

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

8 Disassembly of 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 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 3.1 Panel plate and 3.2 Electric parts) before disassembling sound blanket.

Procedure	Illustration
<p>1) Remove the flange nut of terminal cover and remove the terminal cover (see CJ_ODU_COMP_001).</p>	 <p>The diagram shows a top-down view of the compressor assembly. A dashed line points to a terminal cover on the left side of the unit. The cover is being lifted away from the compressor's terminal block.</p> <p>CJ_ODU_COMP_001</p>
<p>2) Disconnect the connectors (see CJ_ODU_COMP_002).</p>	 <p>The diagram shows a close-up of the electrical terminal block. A hand is shown pulling a connector away from the terminal. An upward-pointing arrow indicates the direction of removal.</p> <p>CJ_ODU_COMP_002</p>

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