

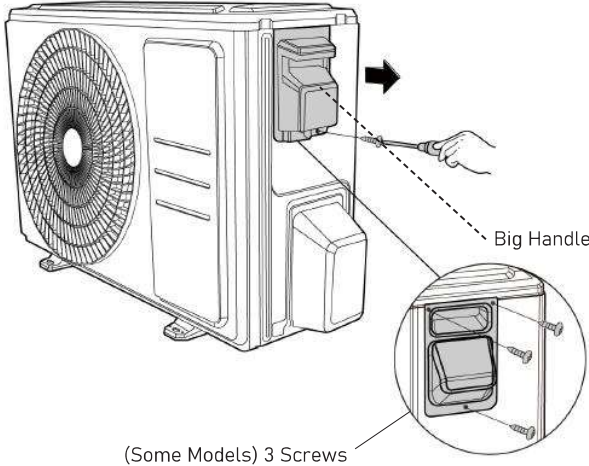
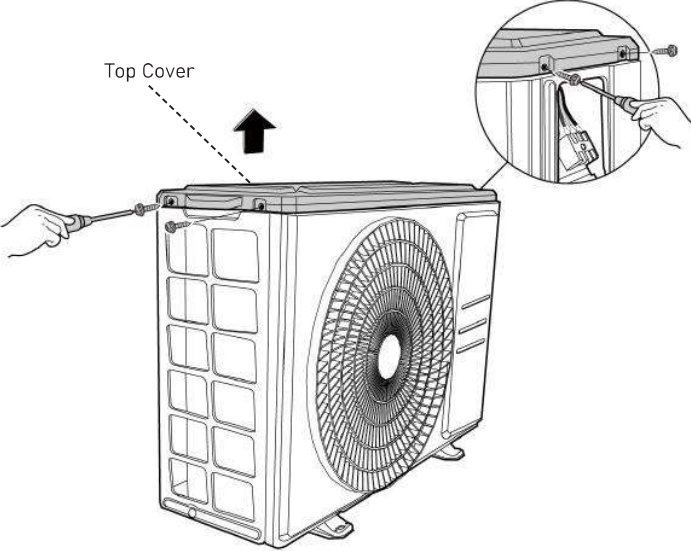
3. Outdoor Unit Disassembly

3.1. Panel Plate Disassembly

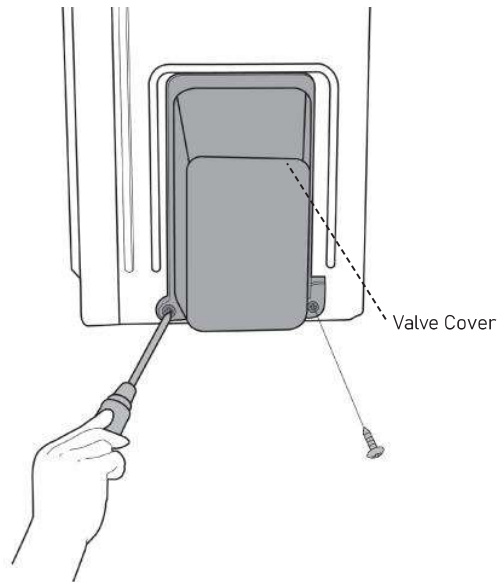
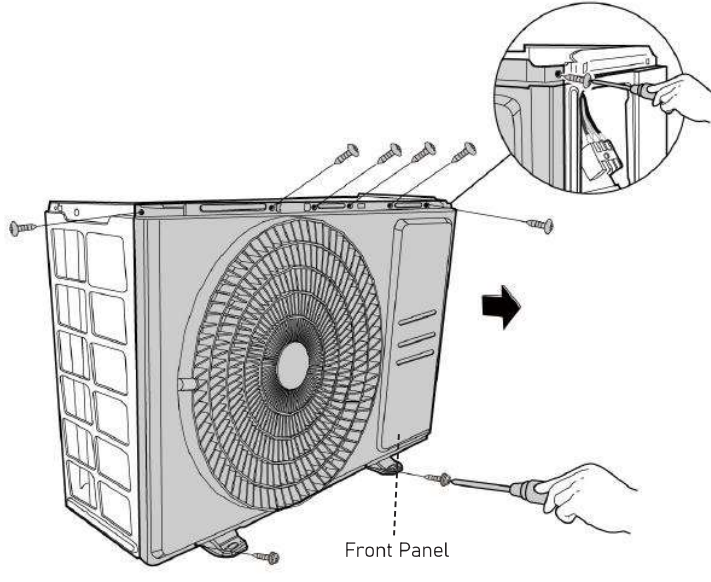
3.1.1. Panel Plate Disassembly (PT-1, PT-2)

Scope of Models Covered:

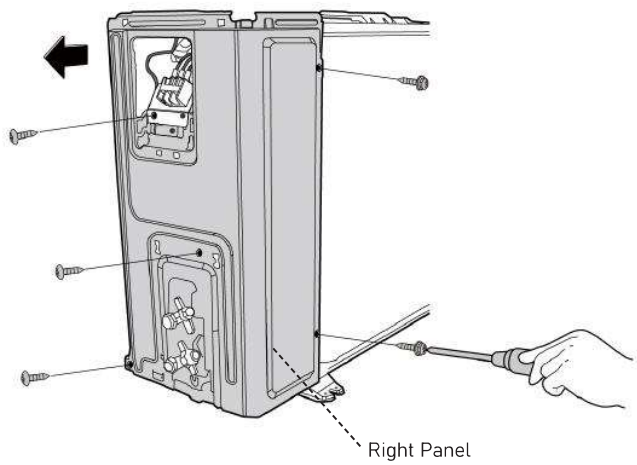
YN009GMFI22RPE / YN009GMFI20RPD / YN012GMFI22RPE / YN012GMFI20RPD / YN018GMFI20RPD
YN009AMFI22RPE / YN009AMFI20RPD / YN012AMFI22RPE / YN012AMFI20RPD

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 (1-3 screws) (see Fig. 1).</p>	 <p style="text-align: center;">Figure 1</p>
<p>3) Remove the screws of the top cover and then remove the top cover (4 screws). One of the screws is located underneath the big handle (see Fig. 2).</p>	 <p style="text-align: center;">Figure 2</p>

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

Procedure	Illustration
<p>4) Remove the screws of the valve cover and then remove the valve cover (2 screws) (see Fig. 3).</p>	 <p style="text-align: center;">Figure 3</p>
<p>5) Remove the screws of the front panel and then remove the front panel (9 screws) (see Fig. 4).</p>	 <p style="text-align: center;">Figure 4</p>

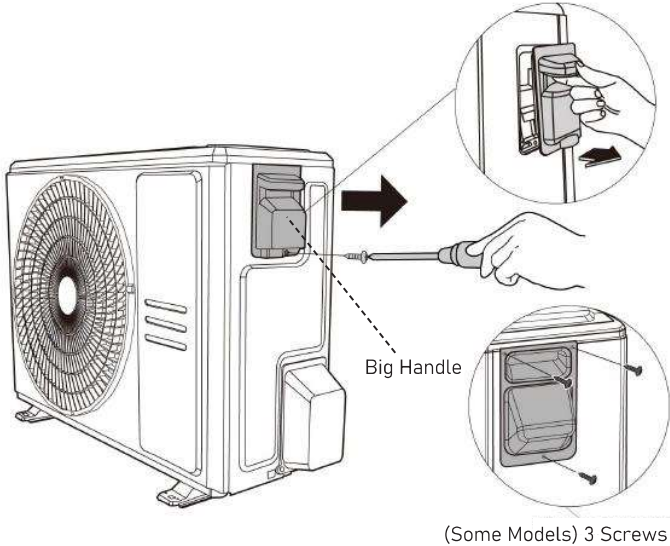
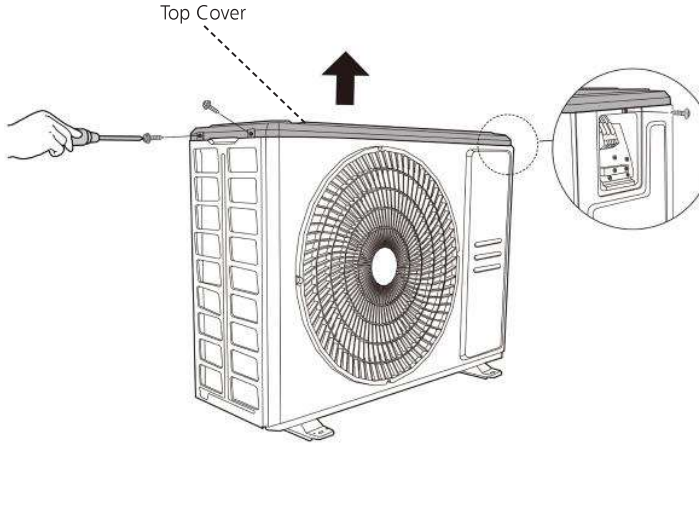
Note: This section is for reference only. Actual unit appearance may vary.

Procedure	Illustration
<p>6) Remove the screws of the right panel and then remove the right panel (5 screws) (see Fig. 5).</p>	 <p>Right Panel</p> <p>Figure 5</p>

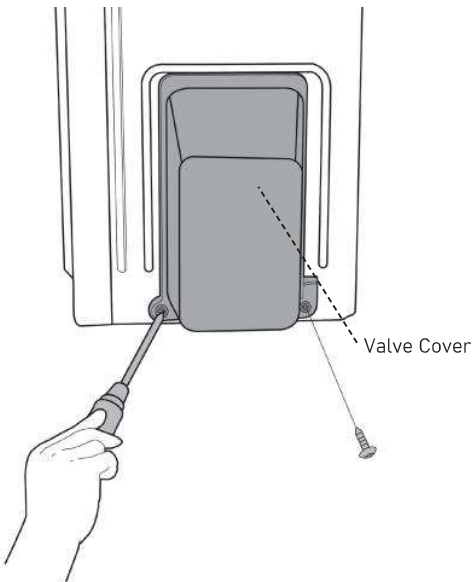
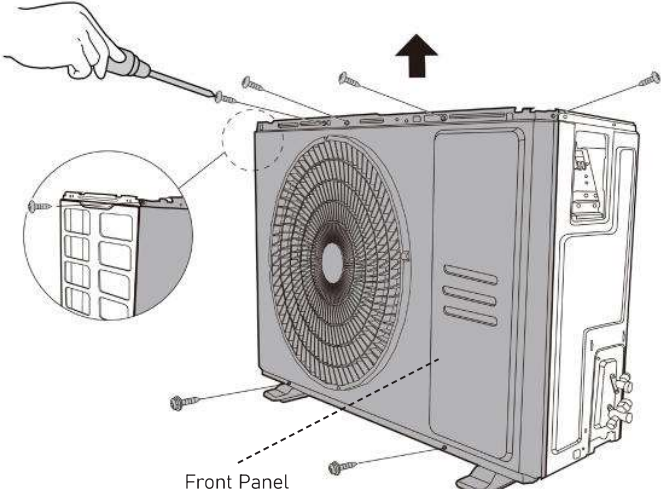
Note: This section is for reference only. Actual unit appearance may vary.

3.1.2. Panel Plate Disassembly (PT-3)

Scope of Models Covered:
YN018GMFI22RPE / YN024GMFI20RPD

Procedure	Illustration
<ol style="list-style-type: none">1) Turn off the air conditioner and the power breaker.2) Remove the screw of the big handle and then remove the big handle (1-3 screws) (see Fig. 1).	 <p>Figure 1</p>
<ol style="list-style-type: none">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 Fig. 2).	 <p>Figure 2</p>

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

Procedure	Illustration
<p>4) Remove the screws of the valve cover and then remove the valve cover (2 screws) (see Fig. 3).</p>	 <p style="text-align: center;">Figure 3</p>
<p>5) Remove the screws of the front panel and then remove the front panel (9 screws) (see Fig. 4).</p>	 <p style="text-align: center;">Figure 4</p>

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

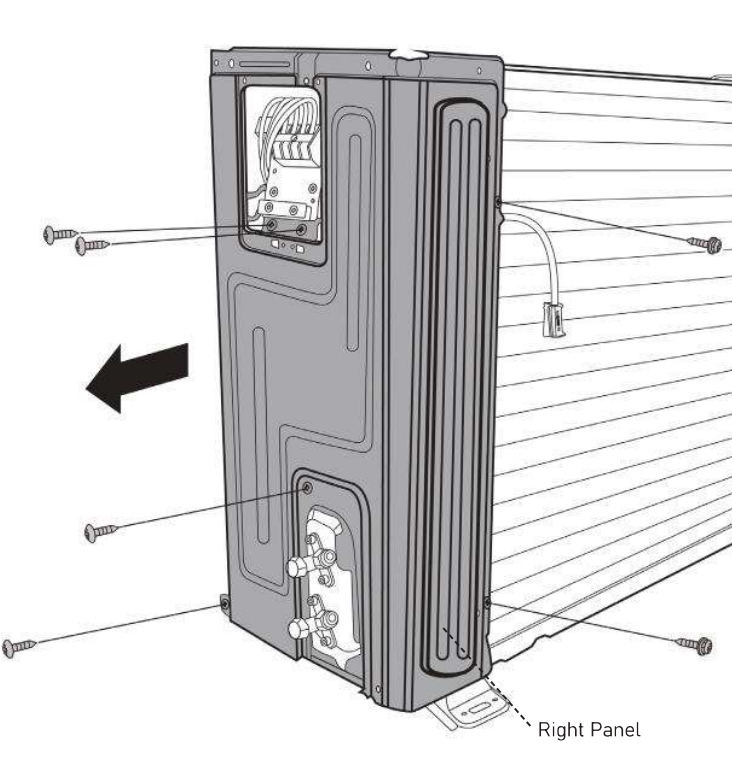
Procedure	Illustration
<p>6) Remove the screws of the right panel and then remove the right panel (6 screws) (see Fig. 5).</p>	 <p>The illustration shows a side view of an outdoor unit. A large black arrow points to the left, indicating the removal of the right panel. Six screws are shown being removed from the panel. The panel is labeled 'Right Panel'.</p>

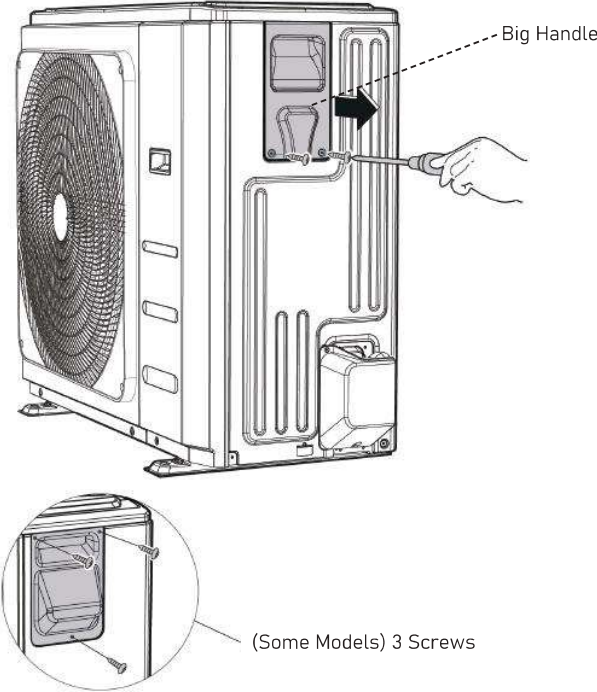
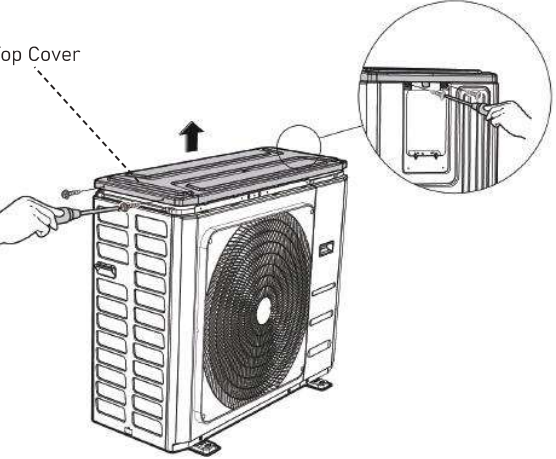
Figure 5

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

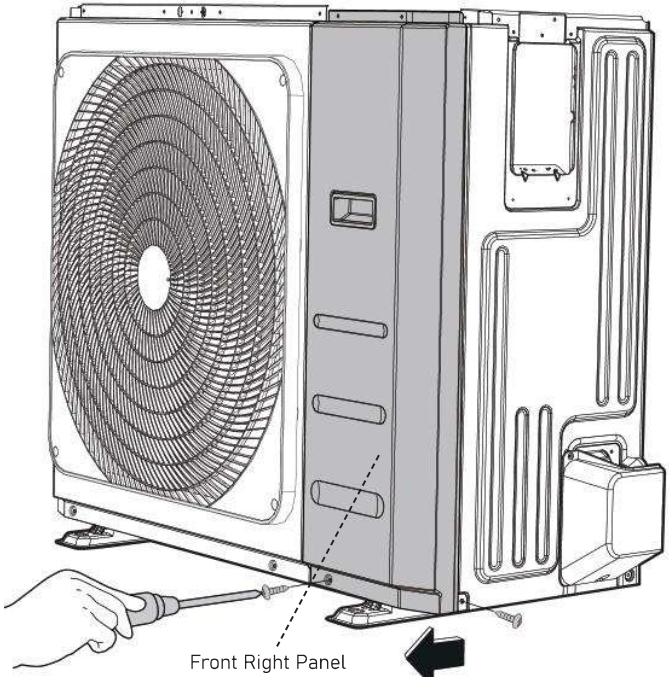
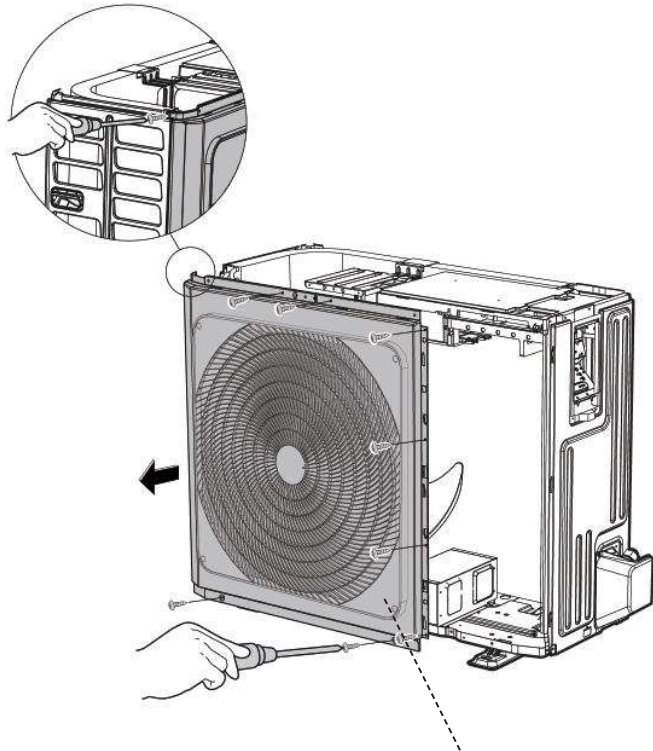
3.1.3. Panel Plate Disassembly (PT-4)

Scope of Models Covered:

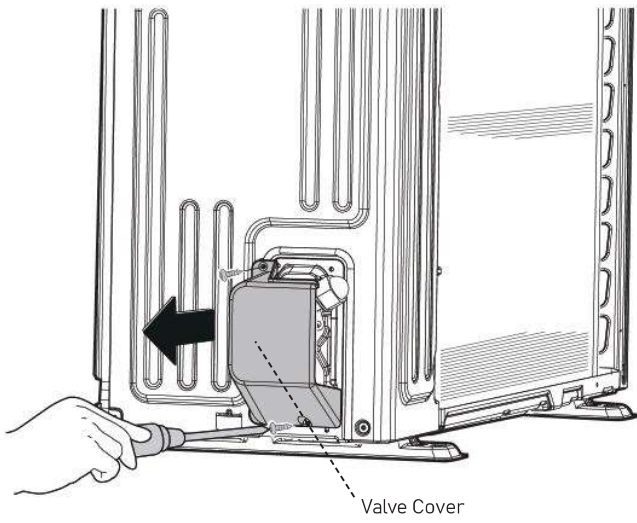
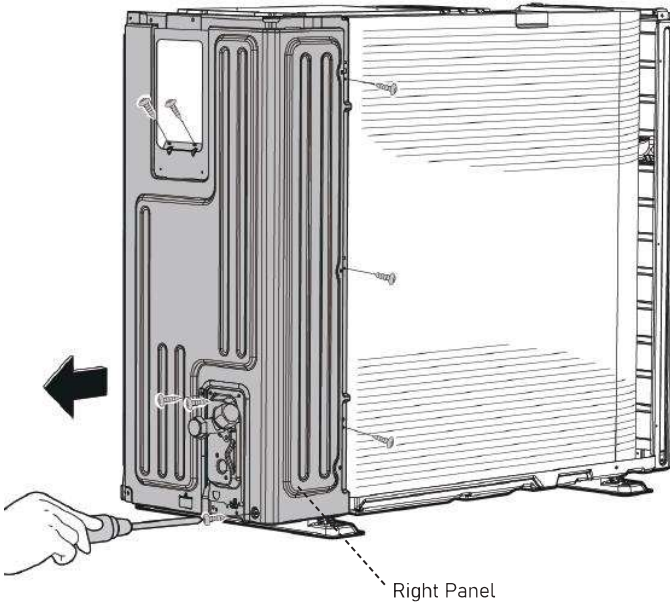
YN024GMFI22RPE / YN030GMFI20RPD / YN036GMFI20RPD

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 (2-3 screws) (see Fig. 1).</p>	 <p>Big Handle</p> <p>(Some Models) 3 Screws</p> <p>Figure 1</p>
<p>3) Remove the screws of the top cover and then remove the top cover (4 screws). Two of the screws are found underneath the big handle (see Fig. 2).</p>	 <p>Top Cover</p> <p>Figure 2</p>

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

Procedure	Illustration
<p>4) Remove the screws of the front right panel and then remove the front right panel (2 screws) (see Fig. 3).</p>	 <p style="text-align: center;">Figure 3</p>
<p>5) Remove the screws of the front panel and then remove the front panel (9 screws) (see Fig. 4).</p>	 <p style="text-align: center;">Figure 4</p>

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

Procedure	Illustration
<p>6) Remove the screws of the valve cover and then remove the valve cover (2 screws) (see Fig. 5).</p>	 <p style="text-align: center;">Figure 5</p>
<p>7) Remove the screws of the right panel and then remove the right panel (8 screws) (see Fig. 6).</p>	 <p style="text-align: center;">Figure 6</p>

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

3.2 Electrical Components Disassembly

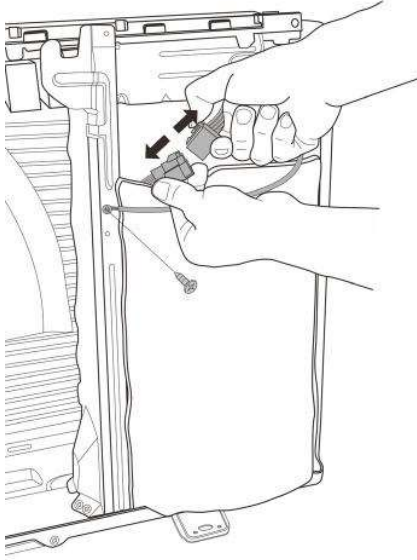
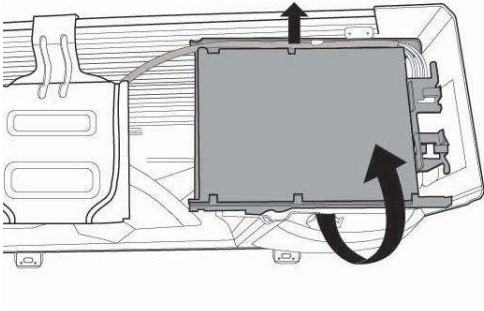
⚠ WARNING: Antistatic gloves must be worn when you disassemble the electronic box.

Note: Remove the air outlet grille (refer to 3.1 Panel Plate Disassembly) prior to disassembling electrical parts.

3.2.1 Electronic Control Box Subassembly Removal (EW-1, EW-2)

Scope of Models Covered:

YN009GMFI22RPE / YN009GMFI20RPD / YN012GMFI22RPE / YN012GMFI20RPD / YN018GMFI20RPD
YN009AMFI22RPE / YN009AMFI20RPD / YN012AMFI22RPE / YN012AMFI20RPD

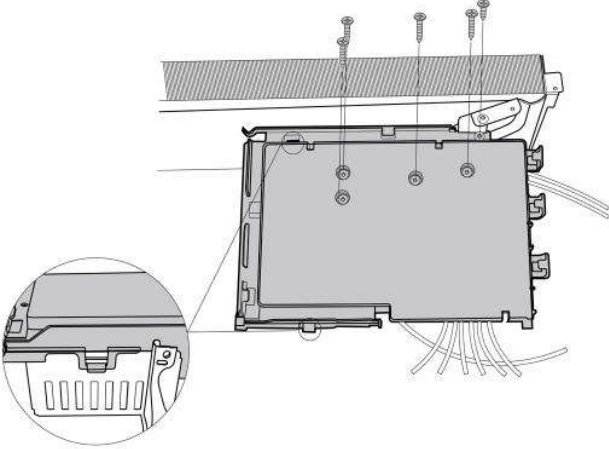
Procedure	Illustration
<p>1) Disconnect the connector for compressor and release the ground wire (1 screw, for some models) See Fig. 1).</p> <p>2) Remove the electronic control box subassembly (see Fig. 2).</p> <p>Note: Electric control box cover cannot be removed.</p>	 <p data-bbox="889 1276 979 1308">Figure 1</p>  <p data-bbox="889 1686 979 1717">Figure 2</p>

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

3.2.2. Electronic Control Box Subassembly Removal (EW-3)

Scope of Models Covered:

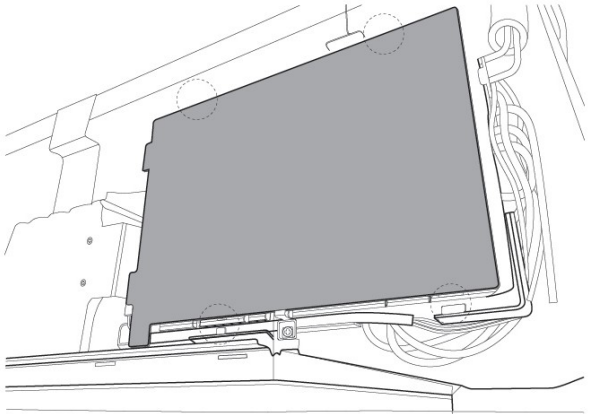
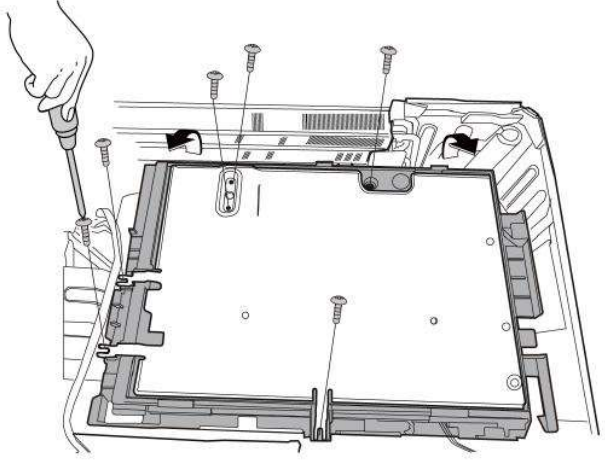
YN018GMFI22RPE / YN024GMFI20RPD / YN024GMFI22RPE

Procedure	Illustration
<p>1) Remove the 5 screws, and release two hooks, then remove the electronic control box subassembly. see Fig. 1).</p> <p>Note: Electric control box cover cannot be removed.</p>	 <p style="text-align: center;">Figure 1</p>

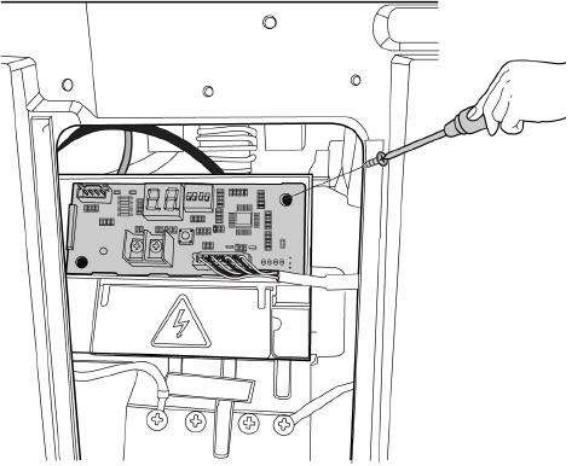
Note: This section is for reference only. Actual unit appearance may vary.

3.2.3. Electronic Control Box Subassembly Removal (EW-4)

Scope of Models Covered:
YN030GMFI20RPD / YN036GMFI20RPD

Procedure	Illustration
<p>1) Release the hooks, and then open the cover (4 hooks total)(see Fig. 1).</p> <p>2) Remove 6 screws on the electronic control board and then remove the electronic control box subassembly (see Fig. 2).</p> <p>Note: Electric control box cover cannot be removed.</p>	 <p data-bbox="889 1003 982 1035">Figure 1</p>  <p data-bbox="889 1570 982 1602">Figure 2</p>

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

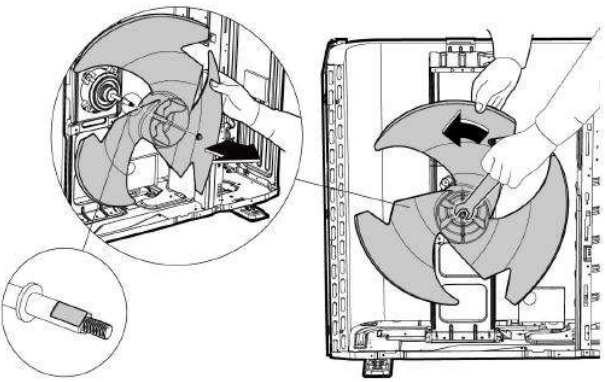
Procedure	Illustration
<p>3) Pull out the connector, remove one screw and then remove the key board subassembly on terminal board. (see Fig. 3).</p>	 <p data-bbox="889 848 990 882">Figure 3</p>

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

3.3 Fan Assembly Disassembly

3.3.1. Fan Blade Removal

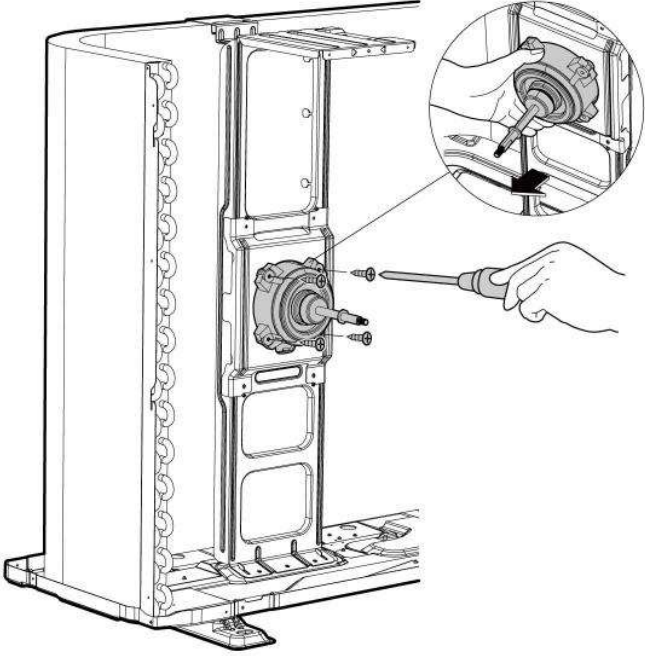
Note: Remove the air outlet grille (refer to 3.1 Panel Plate Disassembly) prior to disassembling fan parts.

Procedure	Illustration
<p>1) Remove the nut securing the fan with a spanner (see Fig. 1).</p> <p>2) Remove the fan blade.</p>	 <p data-bbox="901 997 998 1024">Figure 1</p>

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

3.3.2. Fan Motor Removal

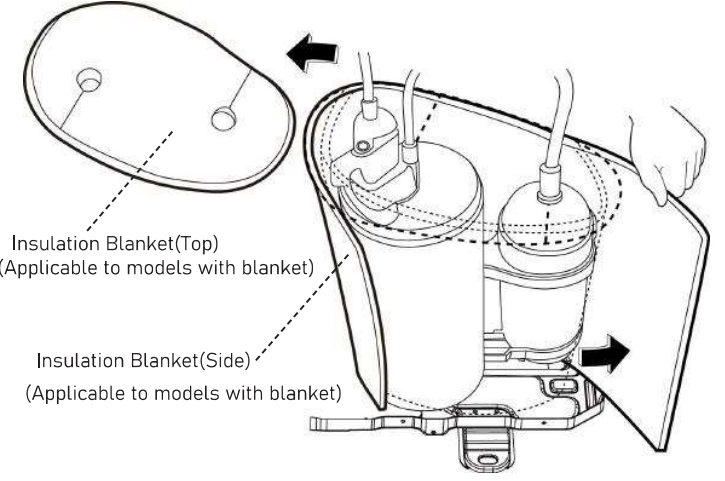
Note: Remove the panel plate and the connection of fan motor on PCB (refer to 3.1 Panel Plate Disassembly and 3.2 Electrical Components Disassembly) prior to disassembling fan motor.

Procedure	Illustration
<p>3) Remove the fastening screws of the fan motor (4 screws) (see Fig. 1).</p> <p>4) Remove the fan motor.</p>	 <p data-bbox="906 1157 1000 1188">Figure 1</p>

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

3.4 Insulation Blanket Removal

Note: Remove the panel plate (refer to 3.1 Panel Plate Disassembly) before removing the insulation blanket.

Procedure	Illustration
<p>1) Remove the insulation blanket (side and top) (see Fig. 1).</p>	 <p data-bbox="873 913 971 945">Figure 1</p>

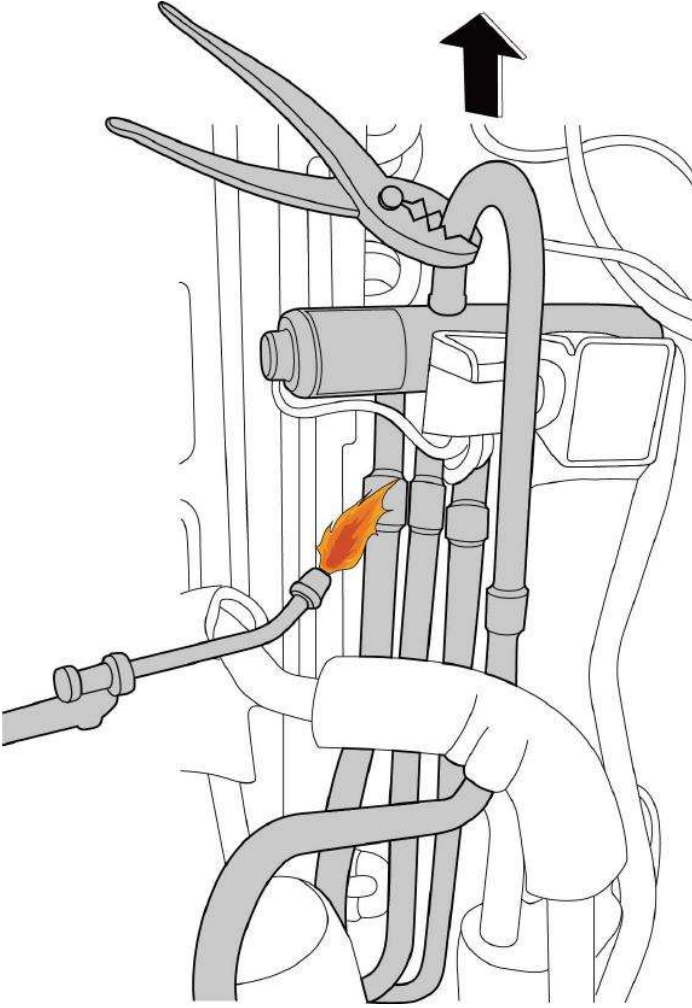
Note: This section is for reference only. Actual unit appearance may vary.

3.5 Four-Way Valve Removal

⚠ WARNING: Evacuate the system and confirm that there is no refrigerant left in the system before removing the four-way valve and the compressor. (The operation below should be performed by professionals.)

(For R32/R290 systems, evacuate the system with the vacuum pump, flush the system with nitrogen, and repeat those two steps prior to heating up the brazed parts.)

Note: Remove the panel plate, connection of four-way valve on PCB (refer to 3.1 Panel Plate Disassembly and 3.2 Electrical Components Disassembly), and insulation blanket, prior to disassembling the four-way valve.

Procedure	Illustration
<ol style="list-style-type: none">1) Heat up the brazed parts and then detach the four-way valve and the pipe (see Fig. 1).2) Remove the four-way valve assembly by using pliers.	 <p data-bbox="917 1591 1008 1619">Figure 1</p>

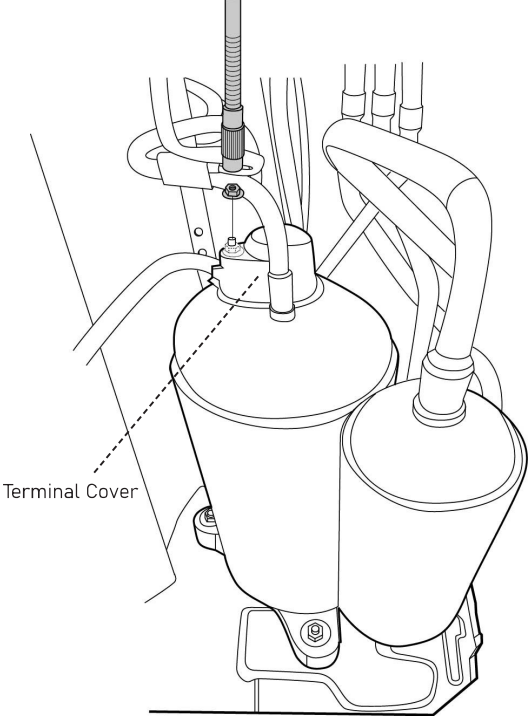
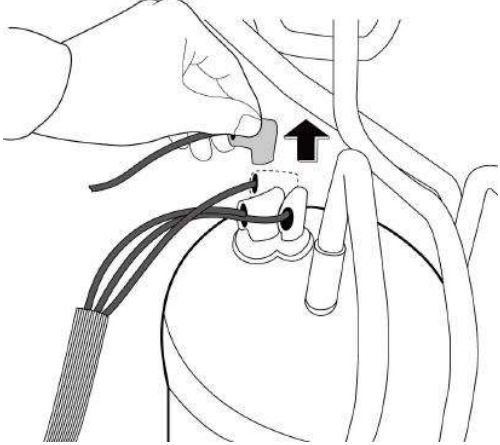
Note: This section is for reference only. Actual unit appearance may vary.

3.6 Compressor Removal

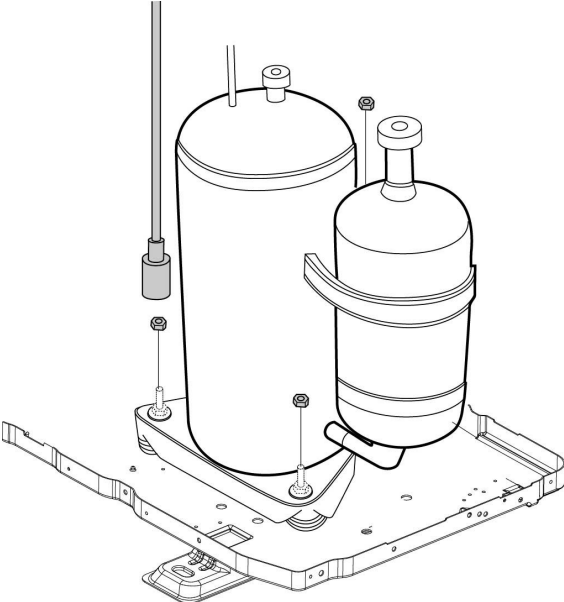
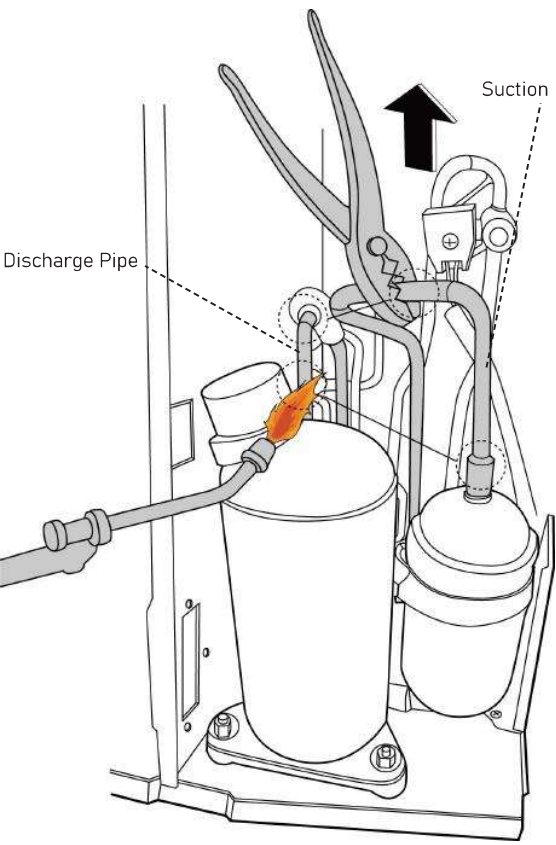
⚠ WARNING: Evacuate the system and confirm that there is no refrigerant left in the system before removing the four-way valve and the compressor. (The operation below should be performed by professionals.)

(For R32/R290 systems, evacuate the system with the vacuum pump, flush the system with nitrogen, and repeat those two steps prior to heating up the brazed parts.)

Note: Remove the panel plate, connection of four-way valve on PCB (refer to 3.1 Panel Plate Disassembly and 3.2 Electrical Components Disassembly), and insulation blanket, prior to disassembling the compressor.

Procedure	Illustration
<p>1) Remove the flange nut of terminal cover, and remove the terminal cover (see Fig. 1).</p>	 <p data-bbox="917 1291 1015 1323">Figure 1</p>
<p>2) Disconnect the connectors (see Fig. 2).</p>	 <p data-bbox="917 1806 1015 1837">Figure 2</p>

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

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

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