
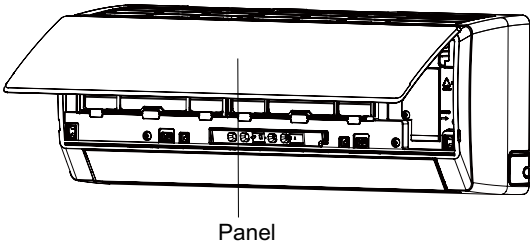
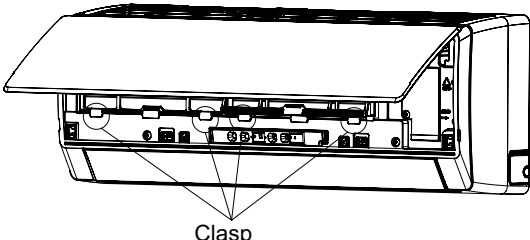
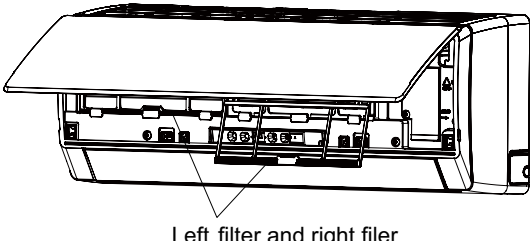
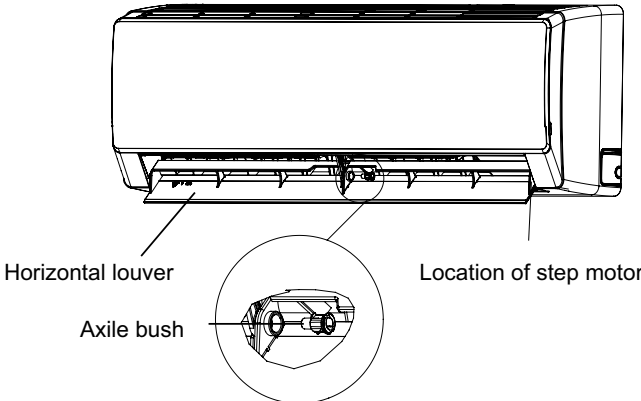
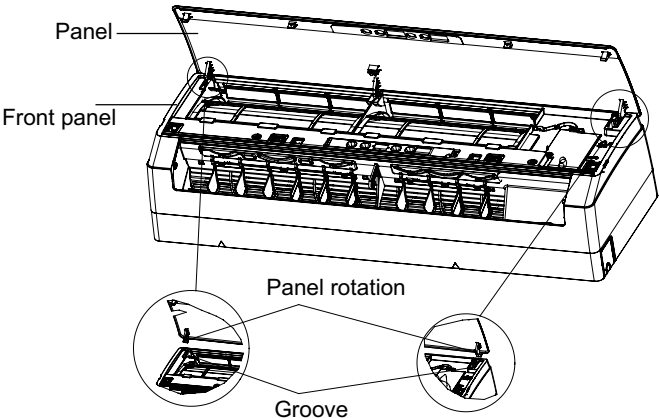
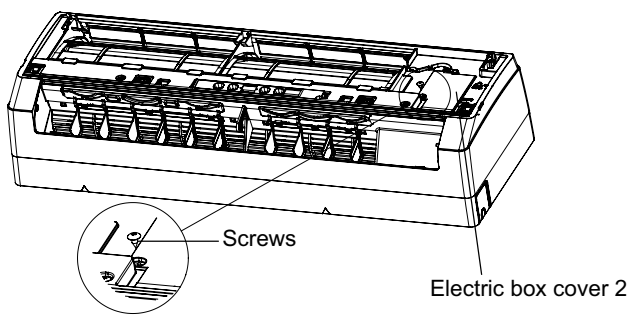
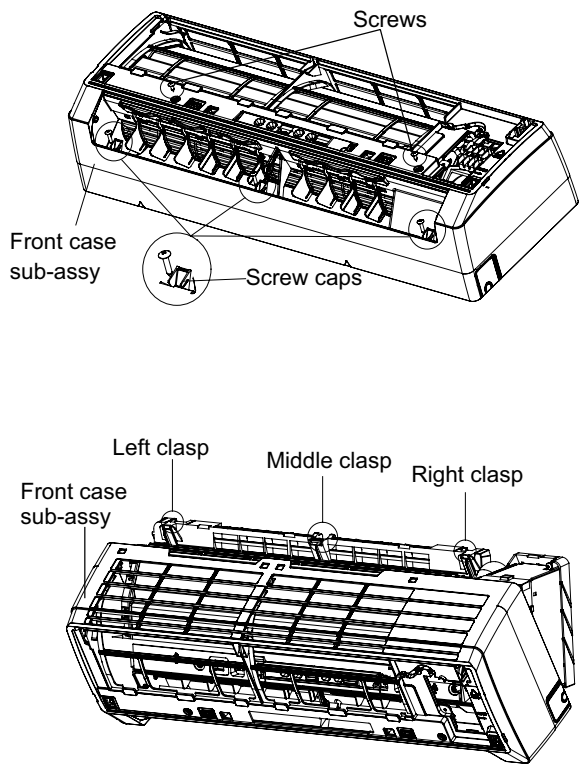


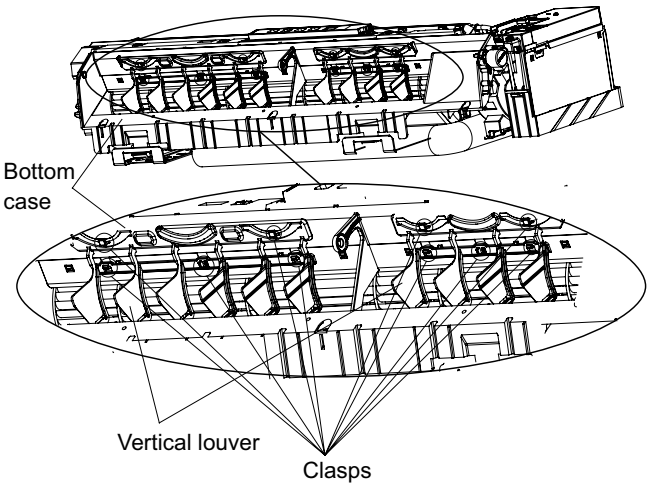
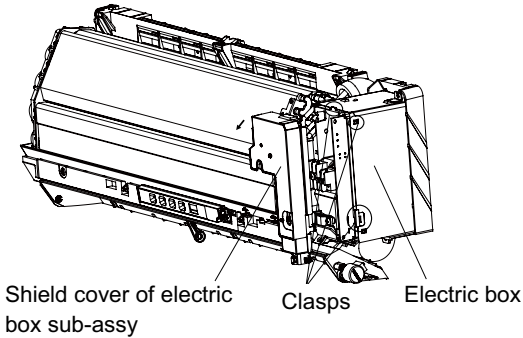
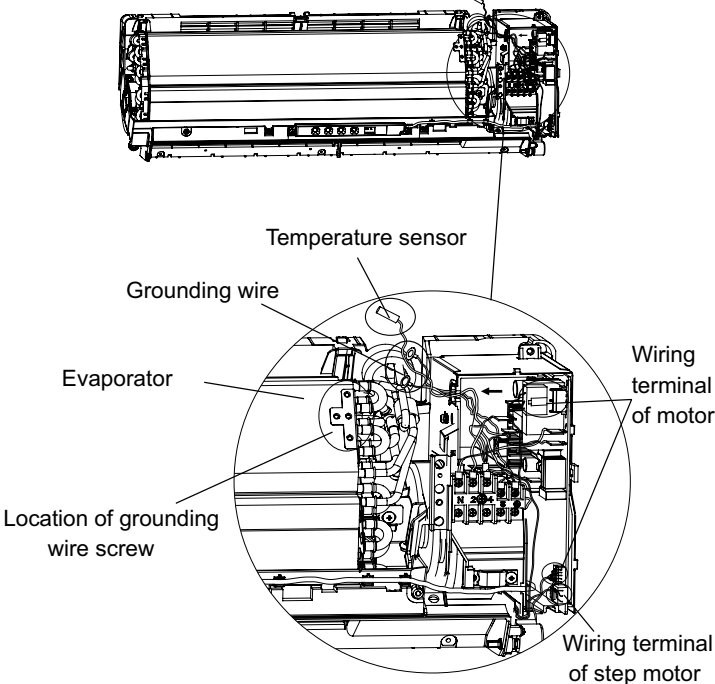
11. Removal Procedure

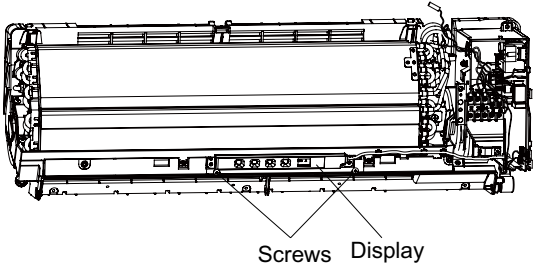
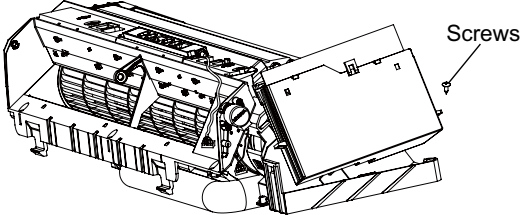
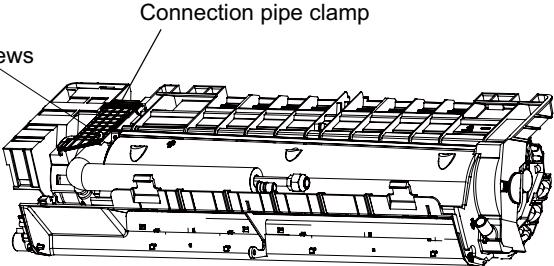
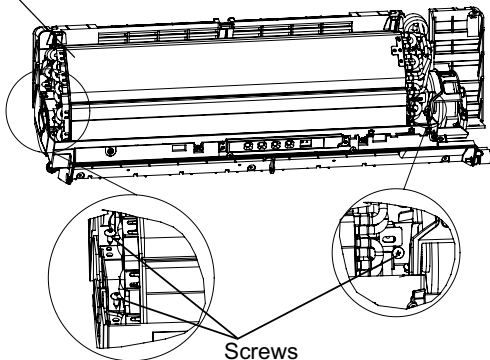
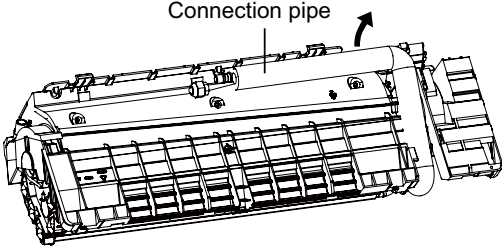
 **Caution:** discharge the refrigerant completely before removal.

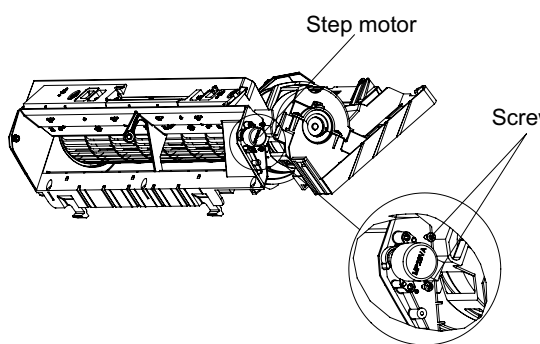
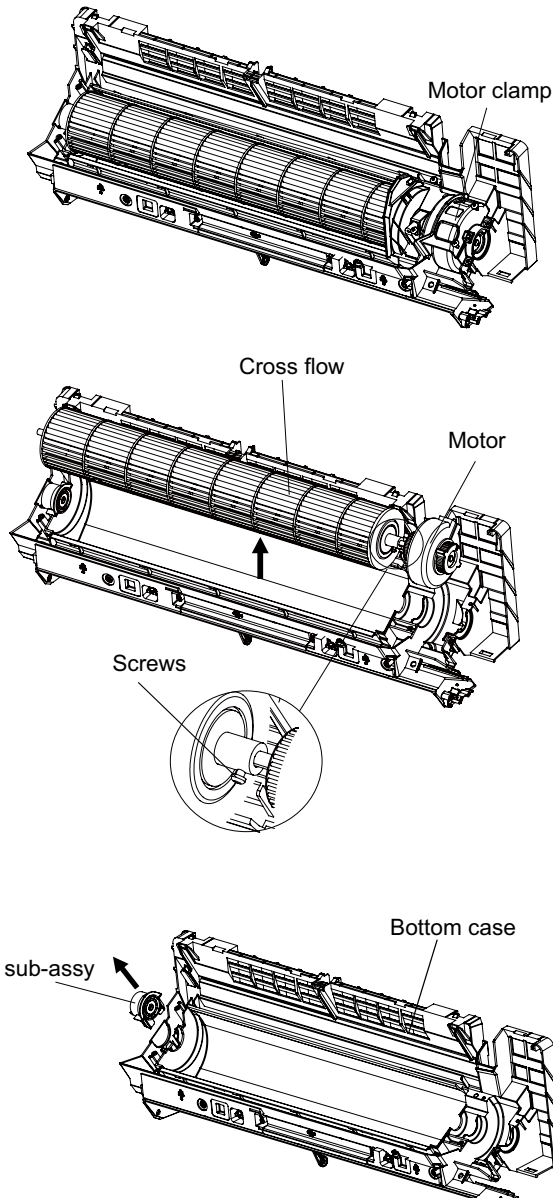
11.1 Removal Procedure of Indoor Unit

Steps	Procedure	
1. Remove filter		 <p>Panel</p>  <p>Clasp</p>  <p>Left filter and right filter</p>
a	Open the panel.	
b	Loosen the clasp shown in the fig and then pull the left filter and right filter outwards to remove them.	
2. Remove horizontal louver		 <p>Horizontal louver</p> <p>Axile bush</p> <p>Location of step motor</p>
	Push out the axile bush on horizontal louver. Bend the horizontal louver with hand and then separate the horizontal louver from the crankshaft of step motor to remove it.	

Steps	Procedure
<p>3. Remove panel</p> <p>Open the front panel; separate the panel rotation shaft from the groove fixing the front panel and then removes the front panel.</p> <p>Note: The display of some models is fixed on the panel; unscrew the screws fixing the display on the panel before removing the panel.</p>	
<p>4. Remove electric box cover 2</p> <p>Remove the screws on the electric box cover 2 to remove the electric box cover 2.</p>	
<p>5. Remove front case sub-assy</p> <p>a Remove the screws fixing front case.</p> <p>Note: 1.Open the screw caps before removing the screws around the air outlet. 2.The quantity of screws fixing the front case sub-assy is different for different models.</p> <p>b Loosen the clasps at left, middle and right sides of front case. Lift the front case sub-assy upwards to remove it.</p>	

Steps	Procedure	
6. Remove vertical louver		
	<p>Loosen the connection clasps between vertical louver and bottom case to remove vertical louver.</p>	 <p>Bottom case</p> <p>Vertical louver</p> <p>Clasps</p>
7. Remove electric box assy		
a	<p>Loosen the connection clasps between shield cover of electric box sub-assy and electric box, and then remove the shield cover of electric box sub-assy.</p>	 <p>Shield cover of electric box sub-assy</p> <p>Clasps</p> <p>Electric box</p>
b	<p>Cut off the tieline which binding the temperature sensor and grounding wire on the evaporator, and then pull out the indoor tube temperature sensor from the evaporator.</p> <p>Remove the screws at the connection place between grounding wire and evaporator.</p> <p>Pull out the wiring terminal of motor and wiring terminal of step motor from the mainboard.</p> <p>Note: 1.Location of tube temperature sensor and tieline on the evaporator is different for different models. 2.When pulling out the wiring terminal, pay attention to loose the clasp and don't pull it so hard.</p>	 <p>Temperature sensor</p> <p>Grounding wire</p> <p>Evaporator</p> <p>Location of grounding wire screw</p> <p>Wiring terminal of motor</p> <p>Wiring terminal of step motor</p>

Steps	Procedure	
c	Remove two screws fixing display. Note: The display of some models is fixed on the panel; unscrew the screws fixing the display on the panel before removing the panel.	 <p>Screws Display</p>  <p>Screws</p>
8. Remove evaporator assy		
a	At the back of the unit, remove the screw fixing connection pipe clamp and then remove the connection pipe clamp.	 <p>Connection pipe clamp</p> <p>Screws</p>
b	Remove 3 screws fixing evaporator assy.	 <p>Evaporator assy</p> <p>Screws</p>
c	Adjust the position of connection pipe on evaporator slightly and then lift the evaporator upwards to remove it.	 <p>Connection pipe</p>

Steps	Procedure
<p>9. Remove stepping motor</p> <p>Remove the screw fixing step motor and then remove the step motor.</p>	 <p>Step motor</p> <p>Screws</p>
<p>10. Remove motor and cross flow blade</p> <p>a Remove the screws fixing motor clamp and then remove the motor clamp.</p> <p>b Remove the screws at the connection place of cross flow blade and motor; lift the motor and cross flow blade upwards to remove them.</p> <p>c Remove the bearing holder sub-assy.</p>	 <p>Motor clamp</p> <p>Cross flow</p> <p>Motor</p> <p>Screws</p> <p>Holder sub-assy</p> <p>Bottom case</p>

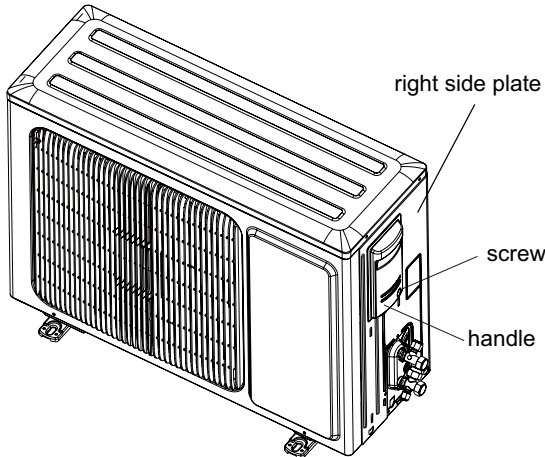
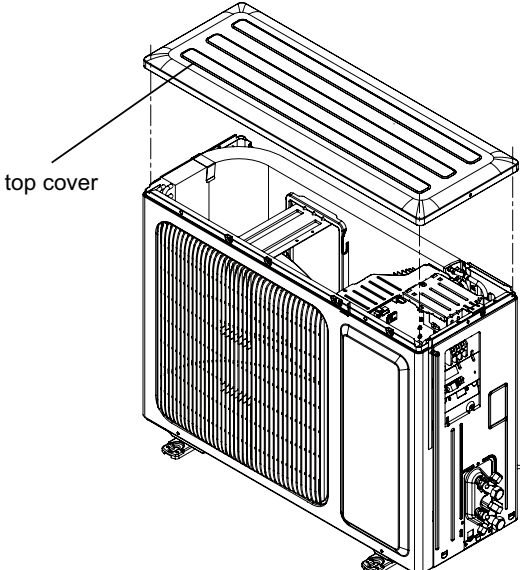
11.2 Removal Procedure of Outdoor Unit

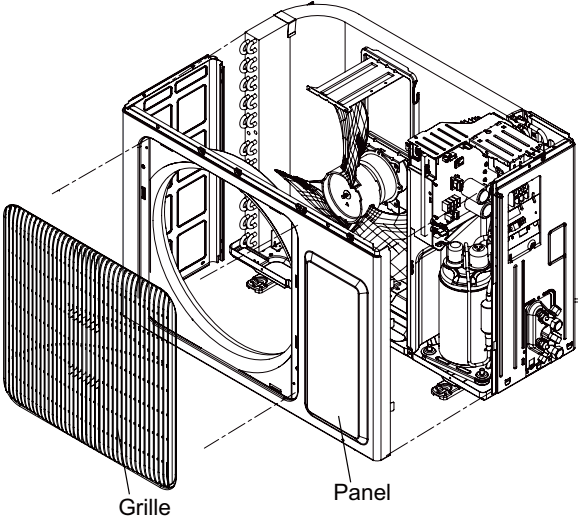
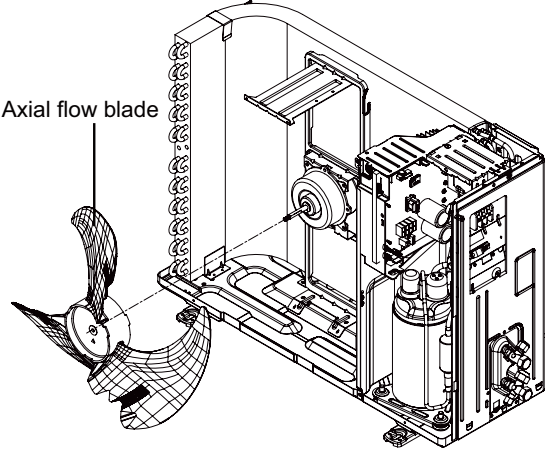
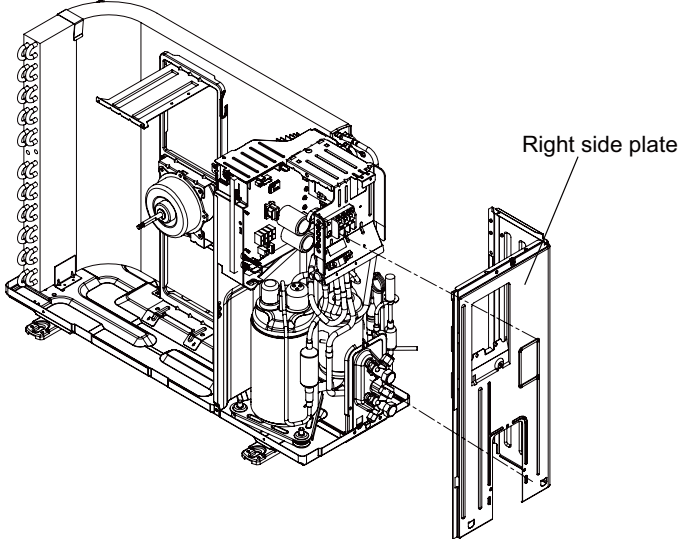


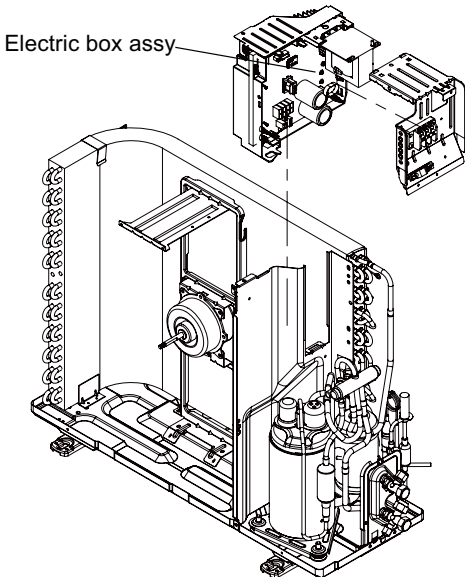
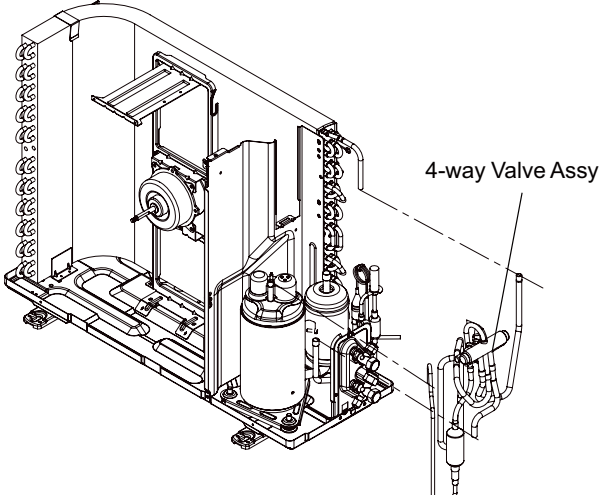
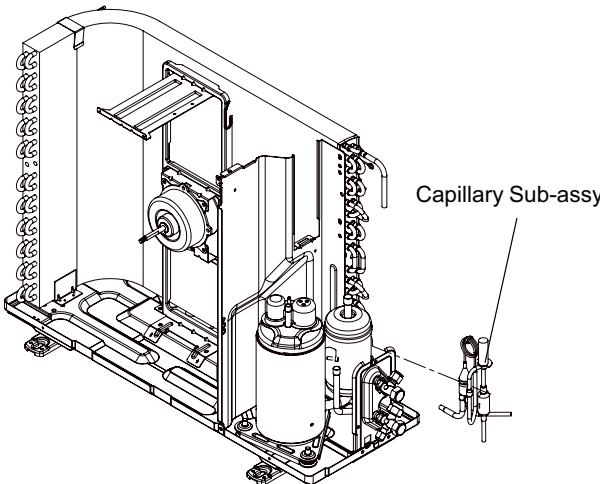
Warning: Be sure to wait for a minimum of 20 minutes after turning off all power supplies and discharge the refrigerant completely before removal.

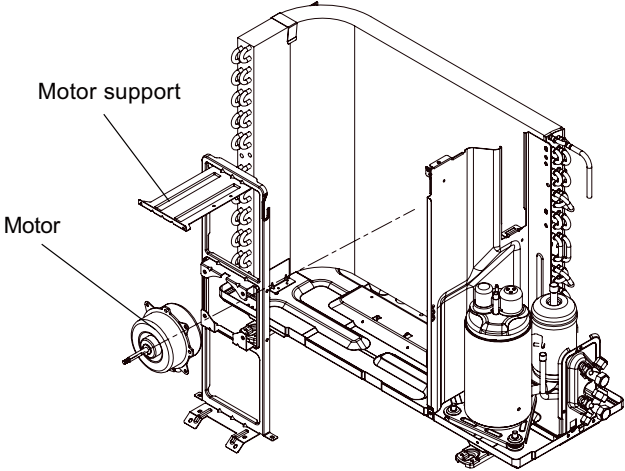
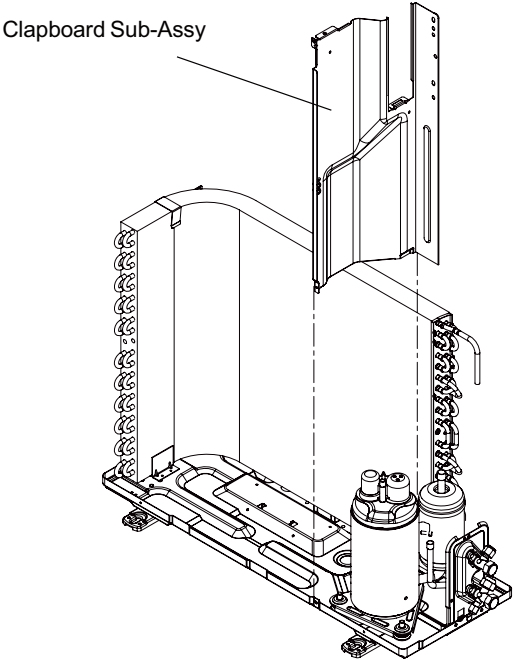
09K

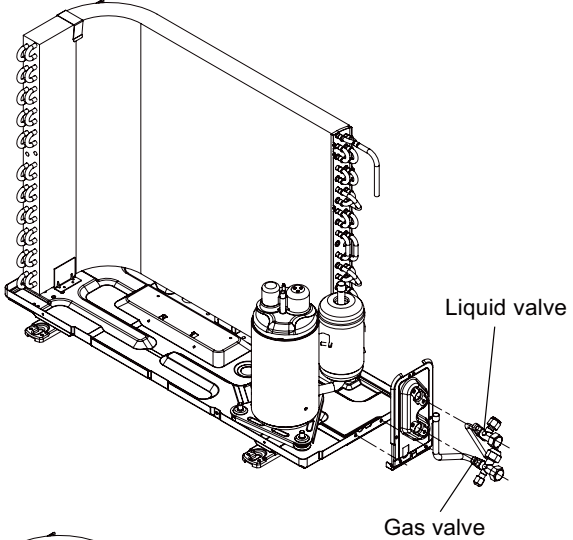
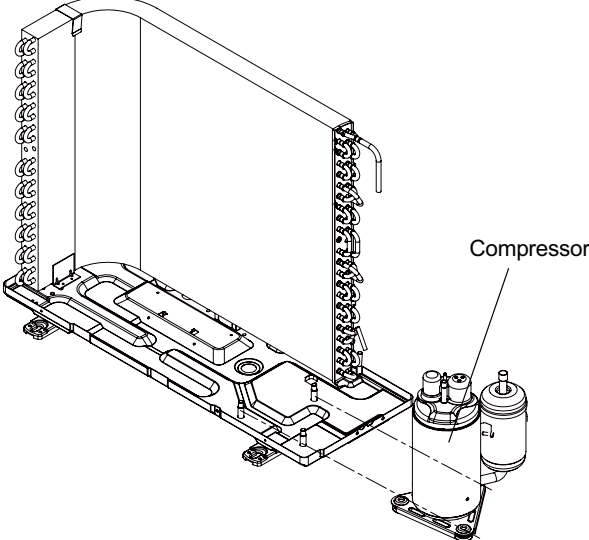
Take GWH09MA-K3DNA3L/O for example.

Steps	Procedure
<p>1. Remove handle</p> <p>Remove the screw fixing handle; slide out the big handle upwards to make the clasp of handle separate from the groove of right side plate, and then remove the handle.</p>	
<p>2. Remove top cover</p> <p>Remove 3 connection screws among top cover plate, front panel and right sideplate. Then remove top cover plate.</p>	

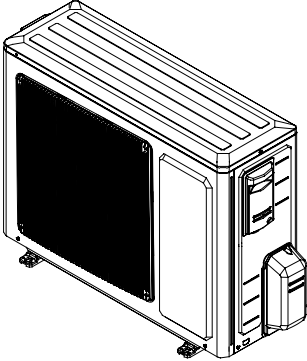
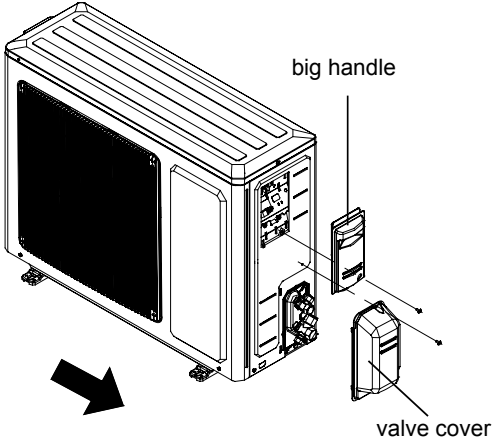
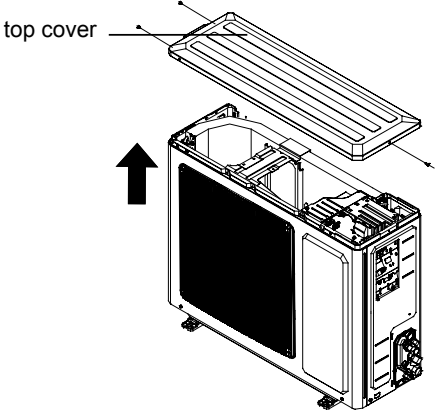
Steps	Procedure	
3.Remove grille and front panel	<p>Remove connection screws between the front grille and the front panel. Then remove the front grille. Remove connection screws connecting the front panel with the chassis and the motor support, and then remove the front panel.</p>	
4.Remove axial flow blade		
5.Remove right side plate	<p>Remove connection screws connecting the right side plate with the valve support and the electric box. Then remove the right side plate.</p>	
		

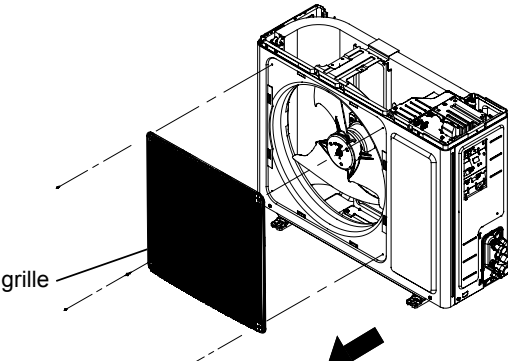
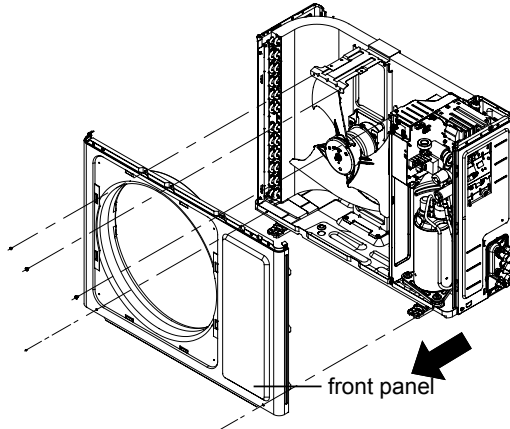
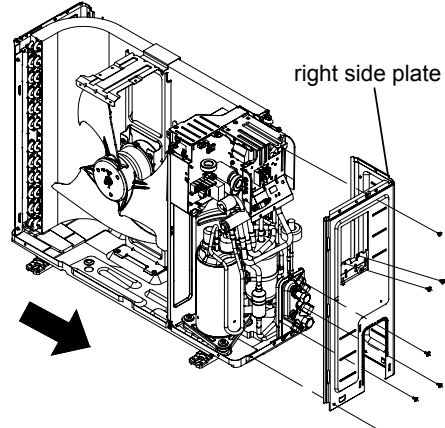
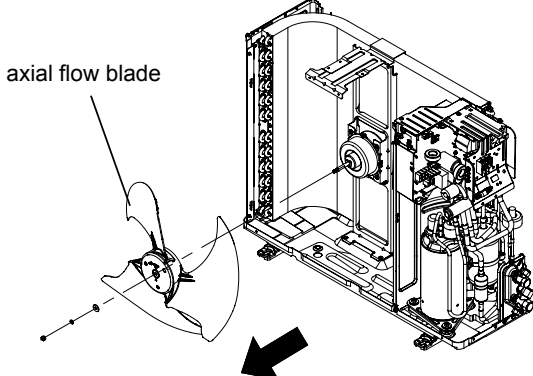
Steps	Procedure
<p>6.Remove electric box assy</p> <p>Remove the 2 screws fixing the cover of electric box. Lift to remove the cover. Loosen the wire and disconnect the terminal. Lift to remove the electric box assy.</p>	 <p>Electric box assy</p>
<p>7.Remove 4-way valve assy</p> <p>Unscrew the fastening nut of the 4-way Valve Assy coil and remove the coil. Wrap the 4-way Valve Assy with wet cotton and unsolder the 4 weld spots connecting the 4-way Valve Assy to take it out.(Note: Refrigerant should be discharged firstly.) Welding process should be as quickly as possible and keep wrapping cotton wet all the time. Be sure not to burn out the lead-out wire of compressor.</p>	 <p>4-way Valve Assy</p>
<p>8.Remove capillary sub-assy</p> <p>Unsolder weld point of capillary Sub-assy, valve and outlet pipe of condensator. Then remove the capillary Sub-assy. Do not block the capillary when unsoldering it. (Note: before unsoldering,discharge refrigerants completely)</p>	 <p>Capillary Sub-assy</p>

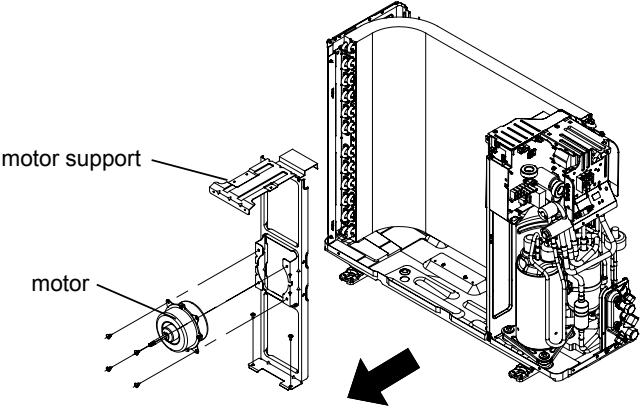
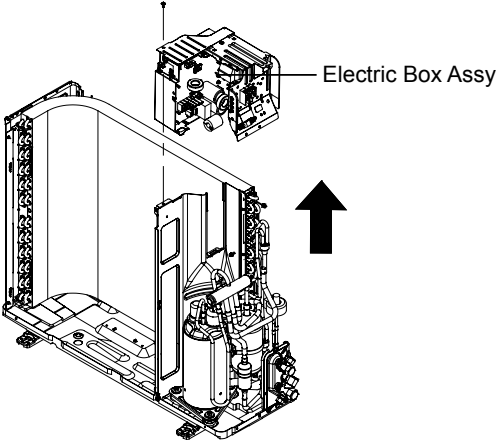
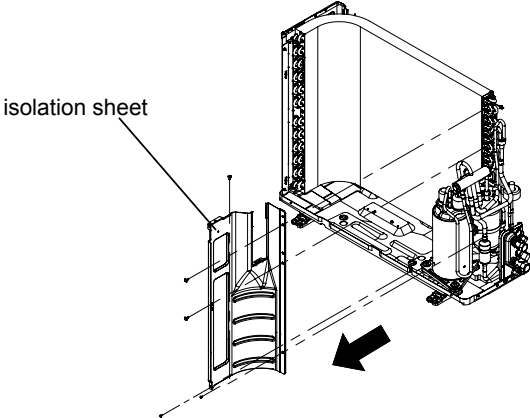
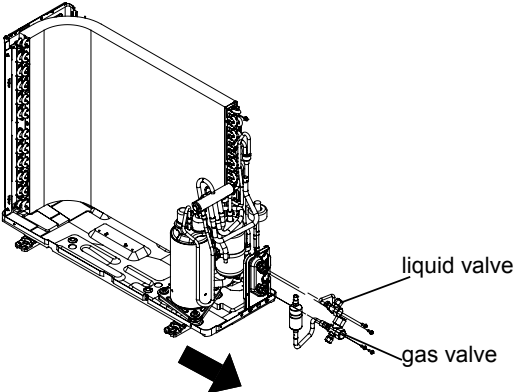
Steps	Procedure	
9.Remove motor and motor support	<div>Remove the 4 tapping screws fixing the motor. Pull out the lead-out wire and remove the motor. Remove the 2 tapping screws fixing the motor support. Lift motor support to remove it.</div> <div></div>	
10.Remove clapboard sub-assy	<div>Loosen the screws of the Clapboard Sub-Assy . The Clapboard Sub-Assy has a hook on the lower side. Lift and pull the Clapboard Sub-Assy to remove.</div> <div></div>	

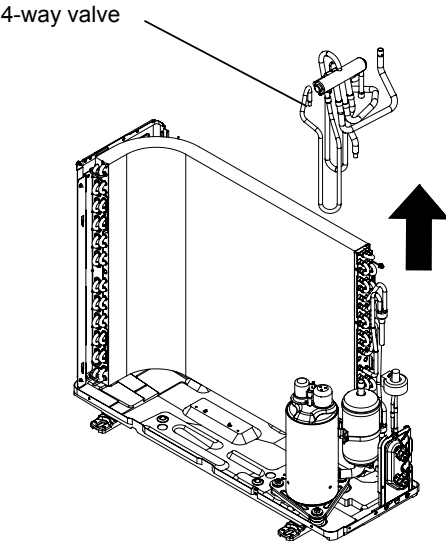
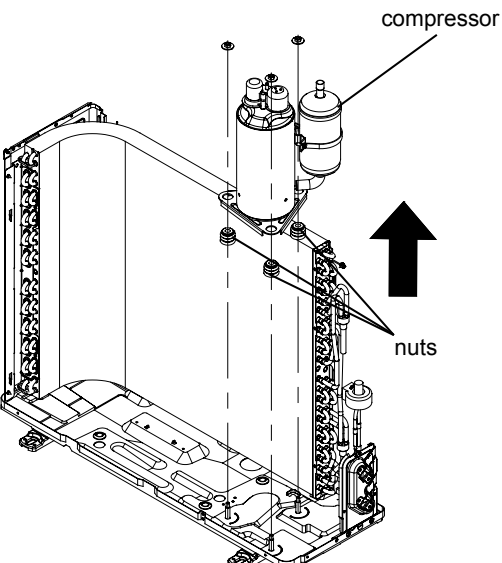
Steps	Procedure	
11.Remove Compressor		
a	<p>Remove the 2 screws fixing the gas valve. Unsolder the welding spot connecting gas valve and air return pipe and remove the gas valve. (Note: it is necessary to warp the gas valve when unsoldering the welding spot.) Remove the 2 screws fixing liquid valve. Unsolder the welding spot connecting liquid valve and remove the liquid valve.</p>	
b	<p>Remove the 3 footing screws of the compressor and remove the compressor.</p>	

12K
Take GWH12MA-K3DNA3L/O for example.

Steps	Procedure	
1. Before disassembly		
2. Remove big handle and valve cover	<p>Remove the connection screw fixing the big handle and then remove the valve cover.</p>	
3. Remove top cover	<p>Remove connection screws connecting the top panel with the front panel and the right side plate, and then remove the top panel.</p>	

Steps	Procedure
4. Remove grille	
<p>Remove connection screws between the front grille and the front panel. Then remove the grille.</p>	
5. Remove front panel	
<p>Remove connection screws connecting the front panel with the chassis and the motor support and then remove the front panel.</p>	
6. Remove right side plate	
<p>Remove connection screws connecting the right side plate with the valve support and the electric box. Then remove the right side plate.</p>	
7. Remove axial flow blade	
<p>Remove the nut on the blade and then remove the axial flow blade.</p>	

Steps	Procedure	
8. Remove motor and motor support		
	<p>Remove the tapping screws fixing the motor and disconnect the leading wire insert of the motor. Then remove the motor.</p> <p>Remove the tapping screws fixing the motor support and lift the motor support to remove it.</p>	
9. Remove Electric Box Assy		
	<p>Remove screws fixing the electric box subassembly; loosen the wire bundle and unplug the wiring terminals. Then lift the electric box to remove it.</p>	
10. Remove isolation sheet		
	<p>Remove the screws fixing the isolation sheet and then remove the isolation sheet.</p>	
11. Remove compressor		
a	<p>Unsolder the welding joint connecting the capillary, valves and the outlet pipe of condenser to remove the capillary. Do not block the capillary with welding slag during unsoldering.</p>	

Steps	Procedure	
b	<p>Remove the 2 screws fixing the gas valve and unsolder the welding joint between the gas valve and the air-return pipe to remove the gas valve. (NOTE: Discharge the refrigerant completely before unsoldering; when unsoldering, wrap the gas valve with a wet cloth completely to avoid damage to the valve caused by high temperature).</p> <p>Remove the 2 screws fixing the liquid valve and unsolder the welding joint connecting the liquid valve to the Y-type pipe to remove the liquid valve.</p>	
c	<p>Unsolder pipes connecting with compressor.</p>	
d	<p>Remove the 3 foot nuts on the compressor and then remove the compressor.</p>	