




REMOVAL PROCEDURE



SERVICE
MANUAL

S E R V I C E M A N U A L

2.5/3.5/5.0 kW Class

-  Indoor Unit
-  Inverter
-  Wall Mounted Type



Service Manual Removal Procedure

Indoor Unit

Applicable Models

●Heat Pump

FTXG25JV1BW

FTXG25JV1BS

FTXG35JV1BW

FTXG35JV1BS

FTXG50JV1BW

FTXG50JV1BS

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Note: ♦ The illustrations may be slightly different depending on the model.

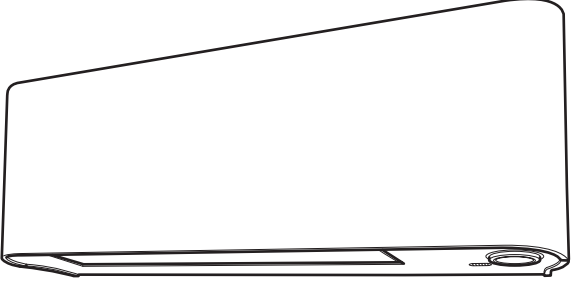
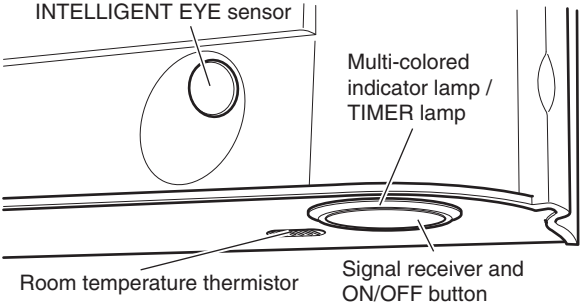
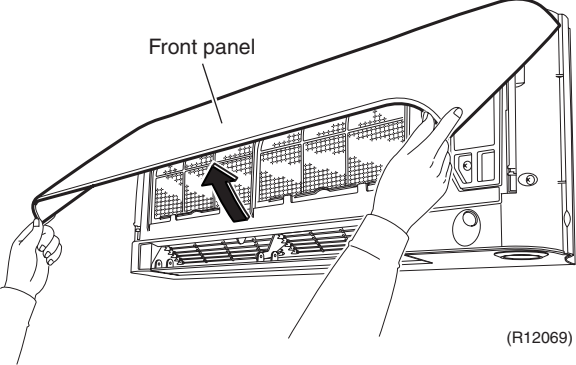
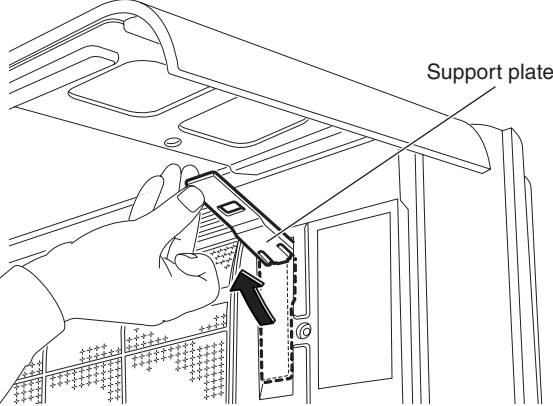
1. Removal of Air Filters / Front Panel

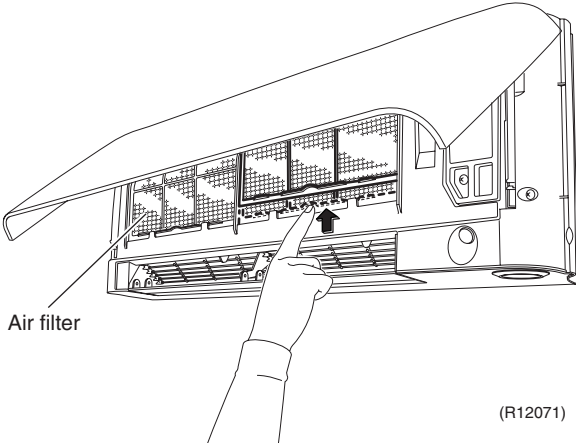
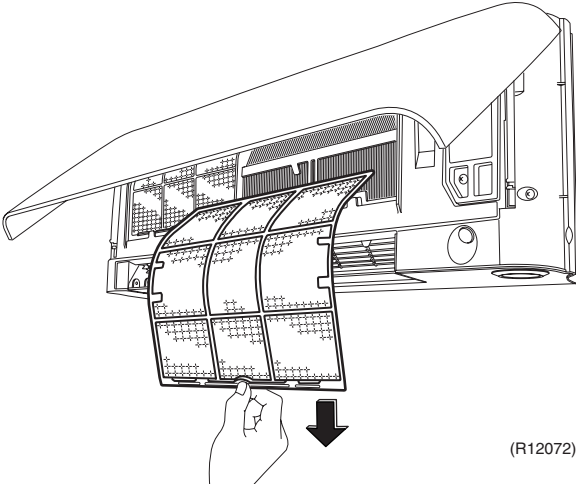
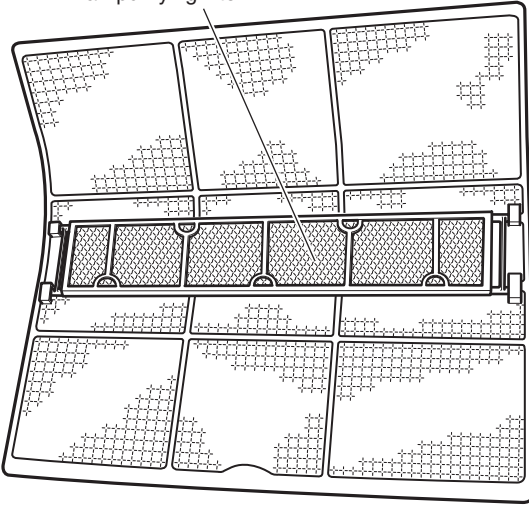
Procedure

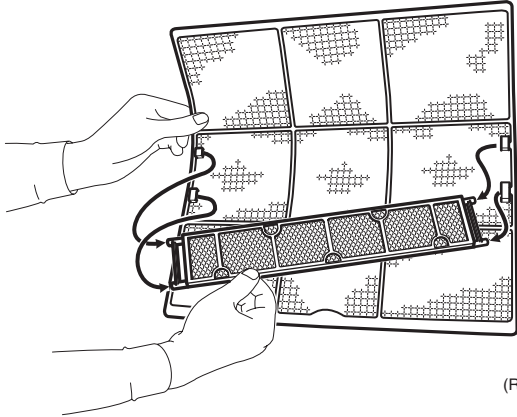
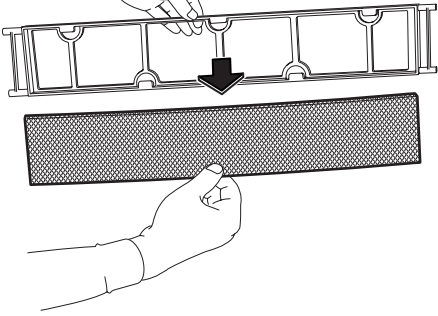
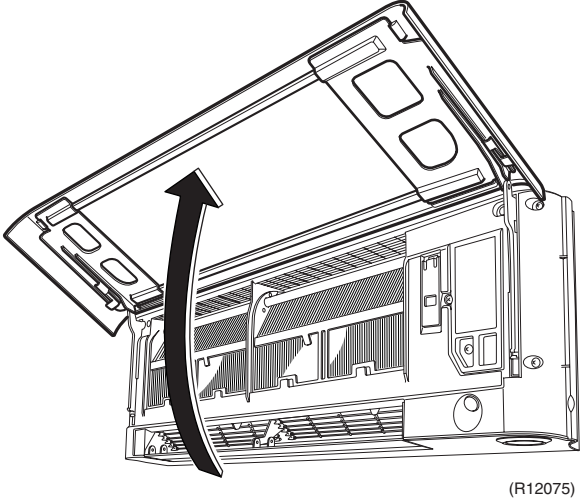


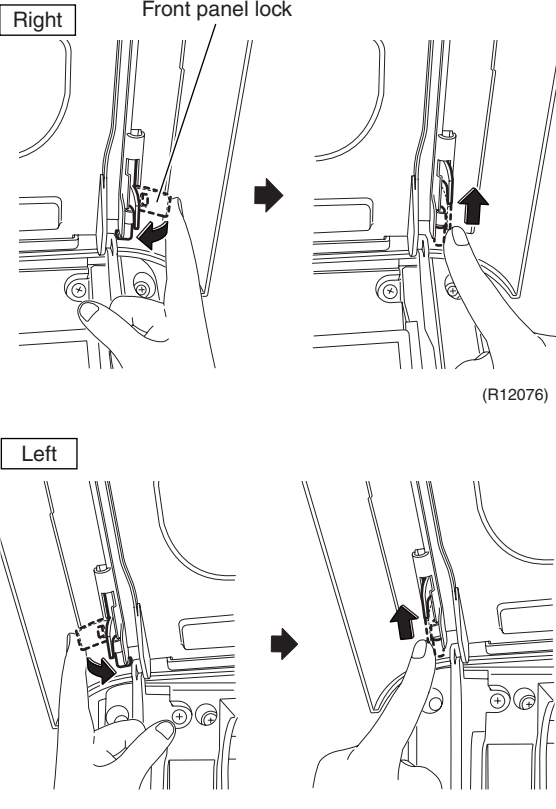
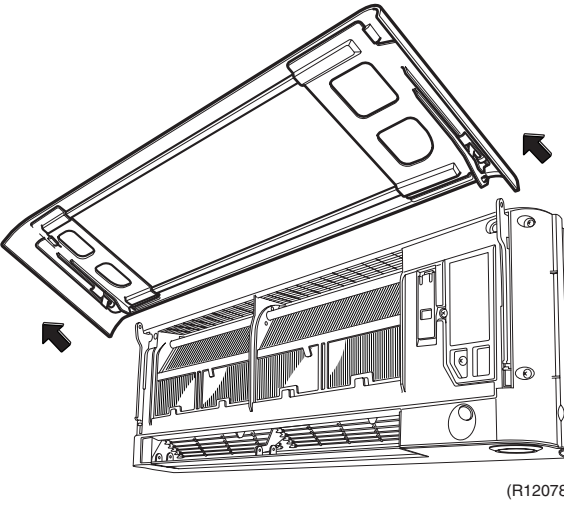
Warning

Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

| Step | Procedure | Points |
|----------------------------|---|--------|
| 1. Appearance feature |  <p>(R12067)</p>  <p>(R12068)</p> | |
| 2. Remove the air filters. | <p>1 Open the front panel.</p>  <p>(R12069)</p> <p>2 Keep the front panel open with the support plate.</p>  <p>(R12070)</p> | |

| Step | Procedure | Points |
|-----------|---|---|
| <p>3</p> | <p>Lift the air filter upwards slightly, and then pull it out downwards.</p>  <p>Air filter</p> <p>(R12071)</p>  <p>(R12072)</p> | <ul style="list-style-type: none"> ■ The air filter is not marked for difference between the right and left sides. ■ The air filter can be set easily by inserting it along the guides. ■ Be sure to insert the hooks (at 2 lower positions) when mounting the air filter. |
| <p>3.</p> | <p>Remove the Titanium apatite photocatalytic air-purifying filter.</p> | <ul style="list-style-type: none"> ■ The Titanium apatite photocatalytic air-purifying filter is not marked for difference between the right and left sides. |
| <p>1</p> | <p>The Titanium apatite photocatalytic air-purifying filter is attached to the rear of the air filter.</p>  <p>Titanium apatite photocatalytic air-purifying filter</p> <p>(R12073)</p> | |

| Step | Procedure | Points |
|------|--|--------|
| 2 | <p>Release the protrusions and remove the Titanium apatite photocatalytic air-purifying filter frame.</p>  <p>(R15282)</p> | |
| 3 | <p>Remove the Titanium apatite photocatalytic air-purifying filter.</p>  <p>(R12074)</p> | |
| 4. | <p>Remove the front panel.</p> | |
| 1 | <p>Open the front panel.</p>  <p>(R12075)</p> | |

| Step | Procedure | Points |
|------|---|--------|
| 2 | <p>Release the front panel locks on each side.</p>  <p>Right</p> <p>Front panel lock</p> <p>(R12076)</p> <p>Left</p> <p>(R12077)</p> | |
| 3 | <p>Remove the front panel.</p>  <p>(R12078)</p> | |

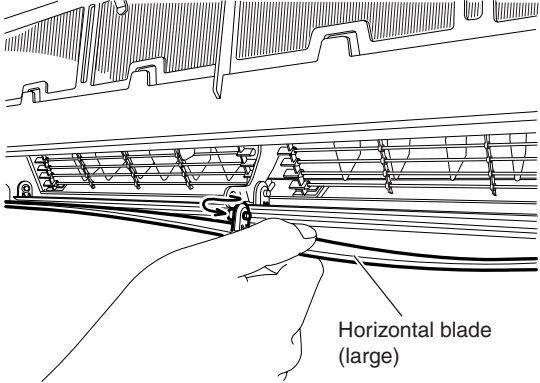
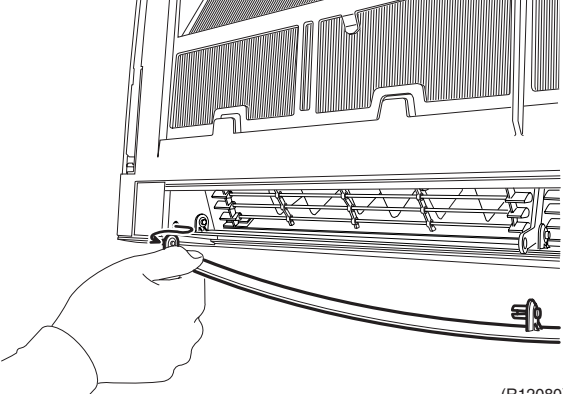
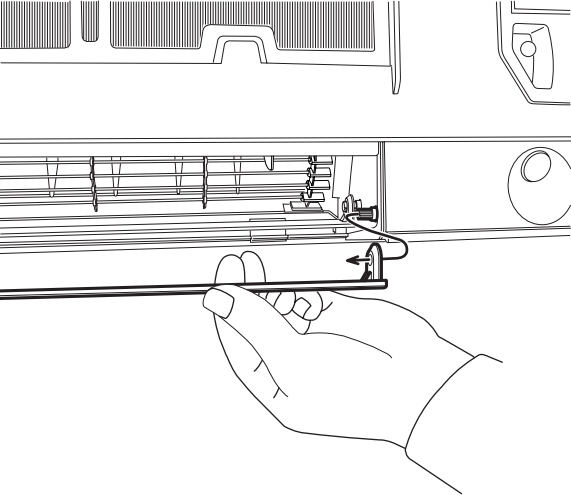
2. Removal of Horizontal Blades

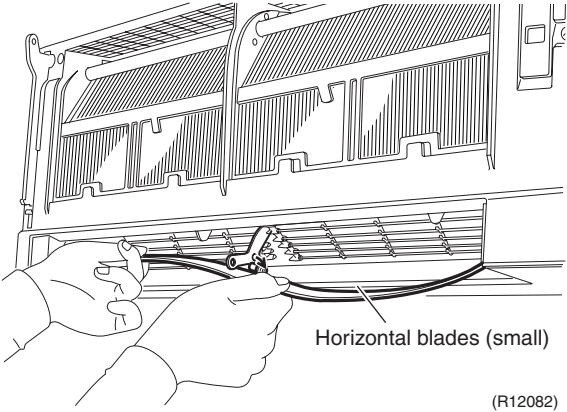
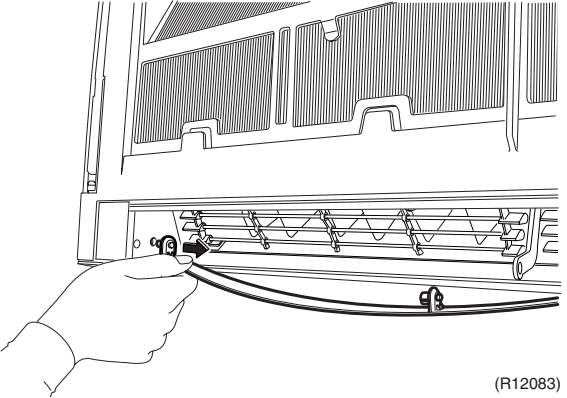
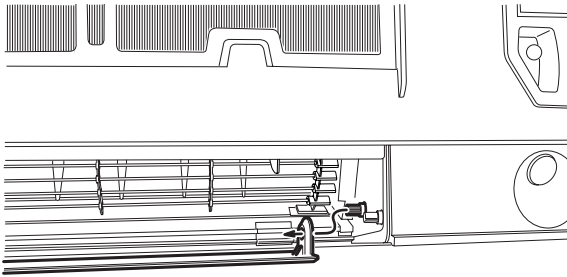
Procedure



Warning

Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

| Step | Procedure | Points |
|------|---|--------|
| 1. | Remove the horizontal blade (large). | |
| 1 | Bend the horizontal blade (large) slightly and release the center shaft.  <p style="text-align: right;">(R12079)</p> | |
| 2 | Release the left shaft.  <p style="text-align: right;">(R12080)</p> | |
| 3 | Slide the horizontal blade (large) to the left and release the right shaft.  <p style="text-align: right;">(R12081)</p> | |

| Step | Procedure | Points |
|------|---|--------|
| 2. | Remove the horizontal blade (small). | |
| 1 | Bend the horizontal blade (small) slightly and release the center shaft.  <p style="text-align: center;">Horizontal blades (small)</p> <p style="text-align: right;">(R12082)</p> | |
| 2 | Release the left shaft.  <p style="text-align: right;">(R12083)</p> | |
| 3 | Slide the horizontal blade (small) to the left and release the right shaft.  <p style="text-align: right;">(R12084)</p> | |

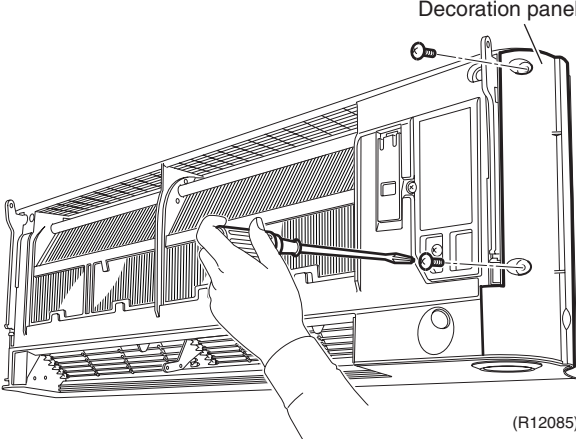
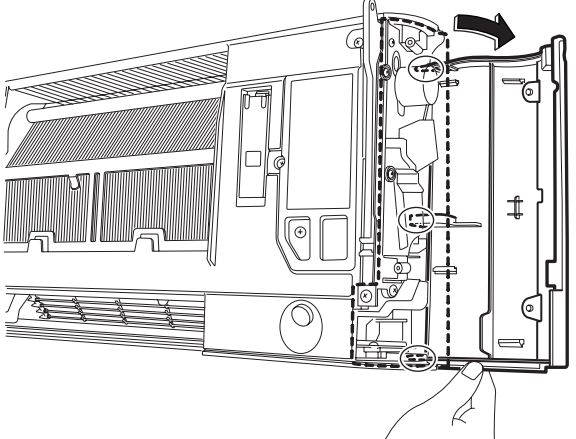
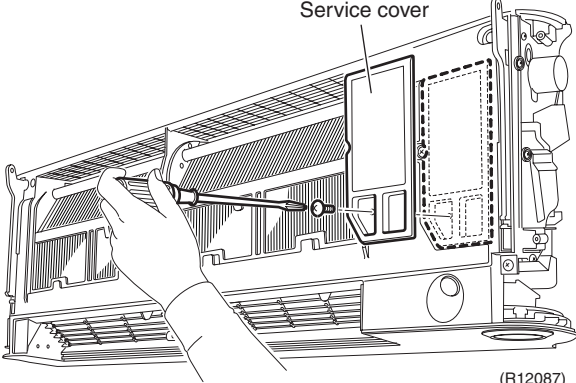
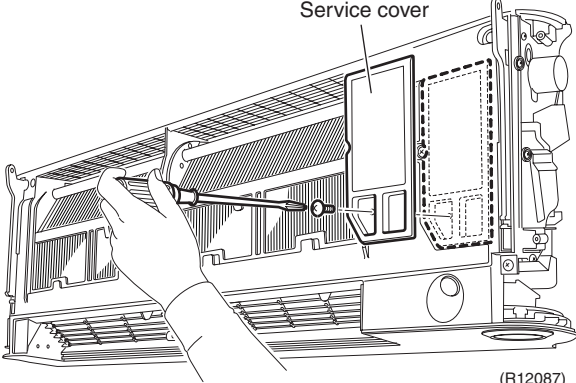
3. Removal of Front Grille

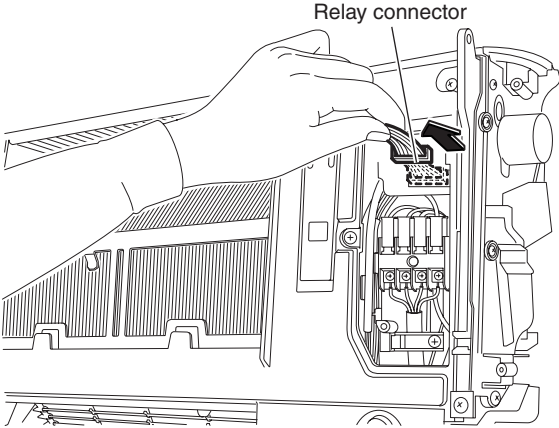
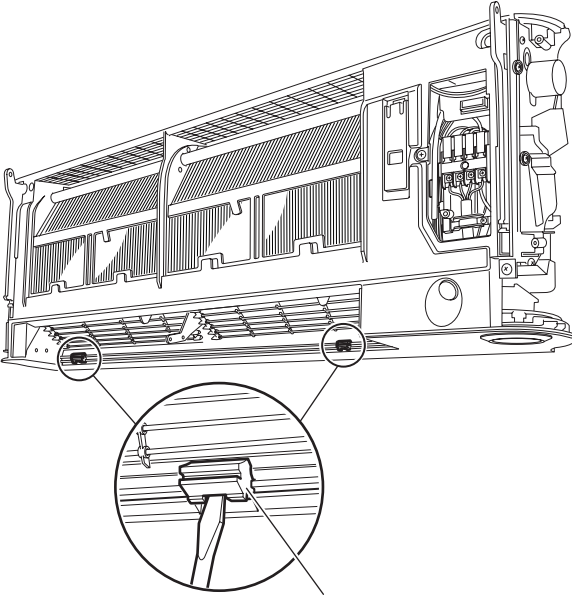
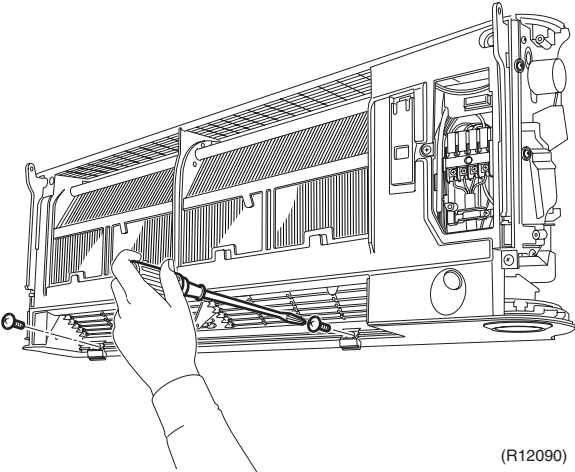
Procedure

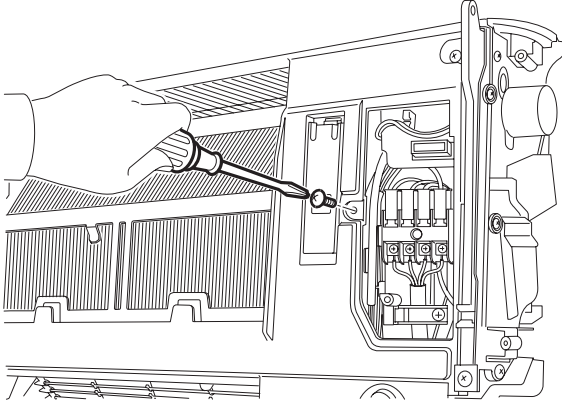
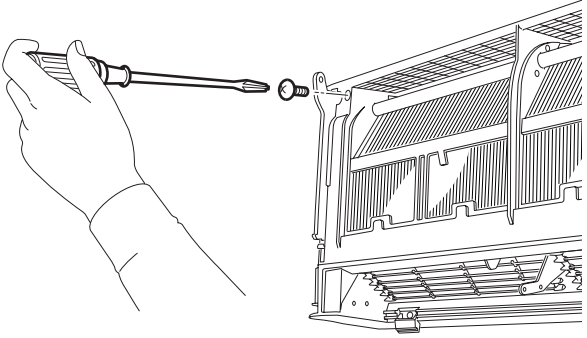
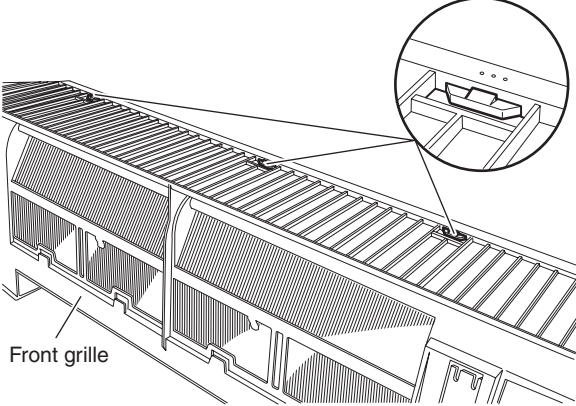
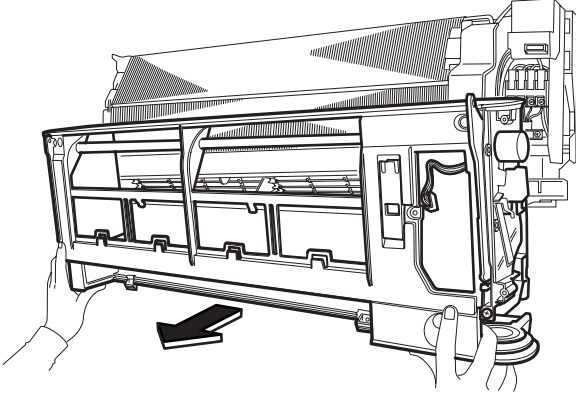


Warning

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| Step | Procedure | Points |
|------|--|--------|
| 1 | <p>Remove the 2 screws of the decoration panel (right).</p>  <p style="text-align: right;">(R12085)</p> | |
| 2 | <p>Open the decoration panel (right). Unfasten the 3 hooks and remove it.</p>  <p style="text-align: right;">(R12086)</p> | |
| 3 | <p>Remove the decoration panel (left) in the same way.</p>  <p style="text-align: right;">(R12087)</p> | |
| 4 | <p>Remove the screw and remove the service cover.</p>  <p style="text-align: right;">(R12087)</p> | |

| Step | Procedure | Points |
|------|---|--------|
| 5 | Disconnect the relay connector for the reduction motor. | |
| |  <p style="text-align: right;">(R12088)</p> | |
| 6 | Open the 2 screw covers with a flat screwdriver. | |
| |  <p style="text-align: right;">(R12089)</p> | |
| 7 | Remove the 2 screws. | |
| |  <p style="text-align: right;">(R12090)</p> | |

| Step | Procedure | Points |
|------|--|--------|
| 8 | Remove the screw. | |
| |  <p>(R12091)</p> | |
| 9 | Remove the screw. | |
| |  <p>(R12164)</p> | |
| 10 | Unfasten the 3 hooks on the top of the front grille. | |
| |  <p>Front grille</p> <p>(R12092)</p> | |
| 11 | Remove the front grille. | |
| |  <p>(R12093)</p> | |

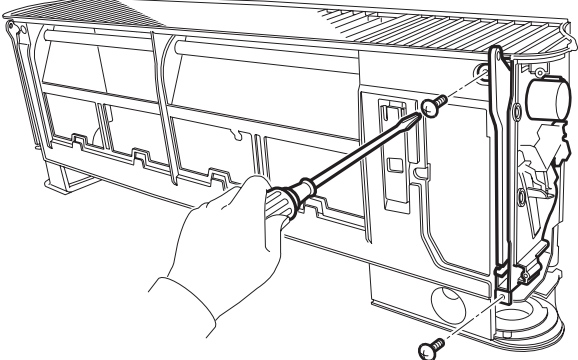
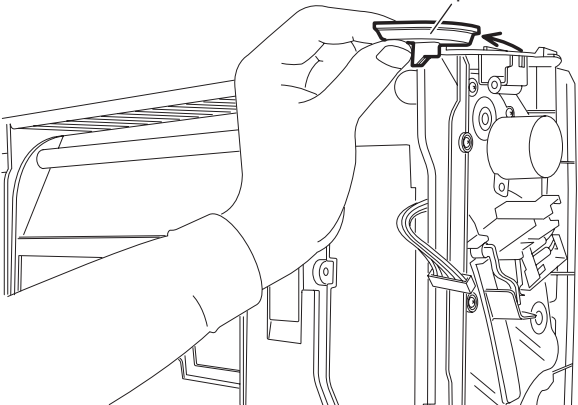
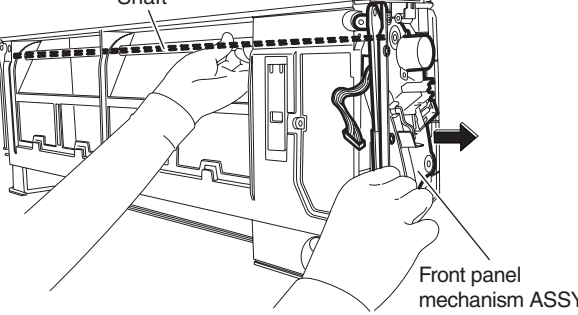
4. Removal of Front Panel Mechanism ASSY

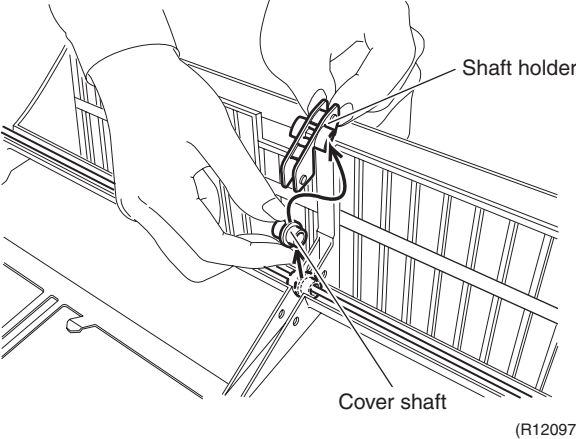
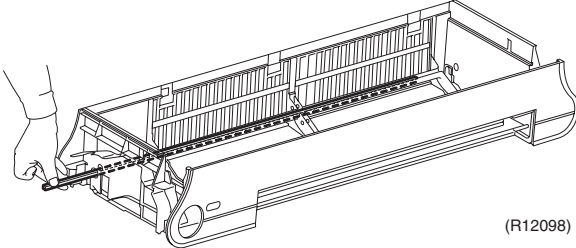
Procedure



Warning

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| Step | Procedure | Procedure | Points |
|------|---|---|---|
| 1 | Remove the 2 screws of the front grille (right). |  <p>(R12094)</p> | |
| 2 | Remove the guide panel. |  <p>Guide panel</p> <p>(R12095)</p> | |
| 3 | Remove the front panel mechanism ASSY (right), holding the shaft. |  <p>Shaft</p> <p>Front panel mechanism ASSY</p> <p>(R12096)</p> | <ul style="list-style-type: none"> ■ Remove the front panel mechanism ASSY (left) in the same way. |

| Step | Procedure | Points |
|------|--|--------|
| 4 | Remove the shaft holder and the cover shaft. | |
| |  <p>(R12097)</p> | |
| 5 | Remove the shaft. | |
| |  <p>(R12098)</p> | |

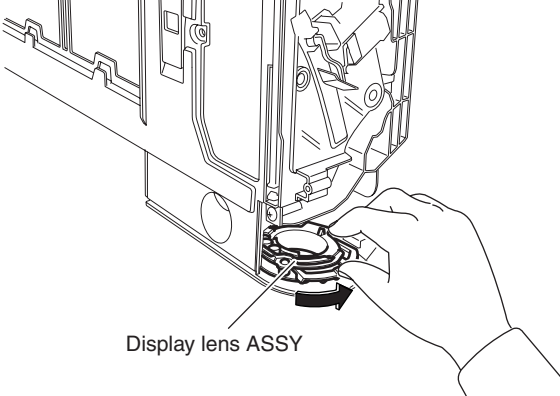
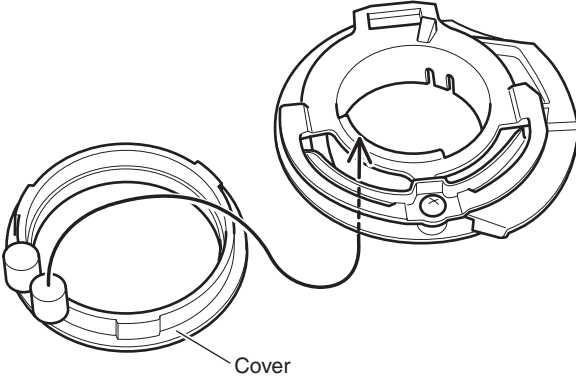
5. Removal of Display Lens ASSY

Procedure



Warning

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| Step | Procedure | Procedure | Points |
|------|--|--|--------|
| 1 | Remove the display lens ASSY by turning it counterclockwise. |  <p style="text-align: right;">(R12102)</p> | |
| 2 | Unfasten the hook and remove the cover. |  <p style="text-align: right;">(R12103)</p> | |

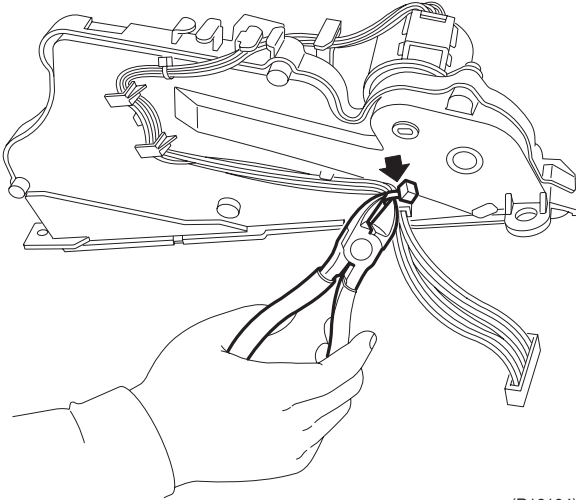
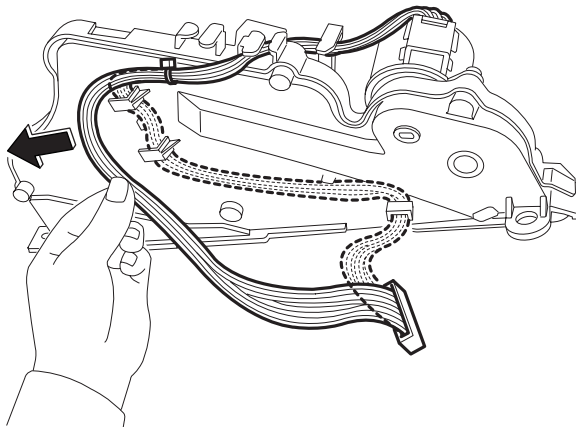
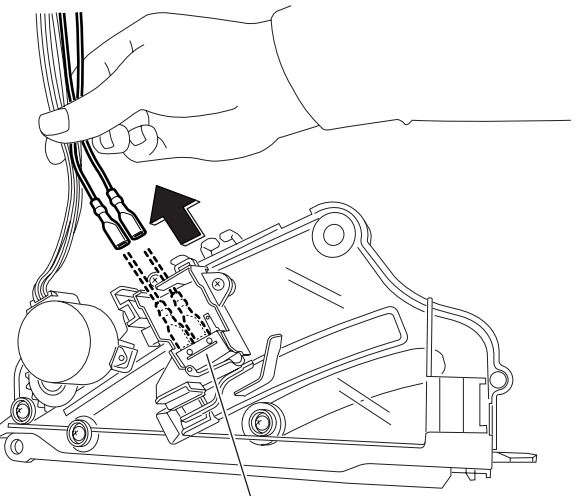
6. Removal of Reduction Motor / Limit Switch

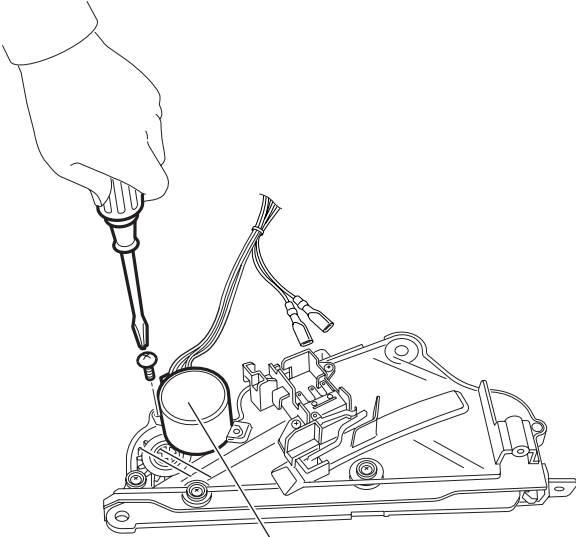
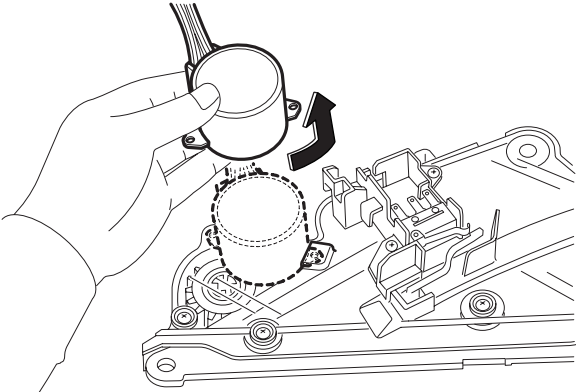
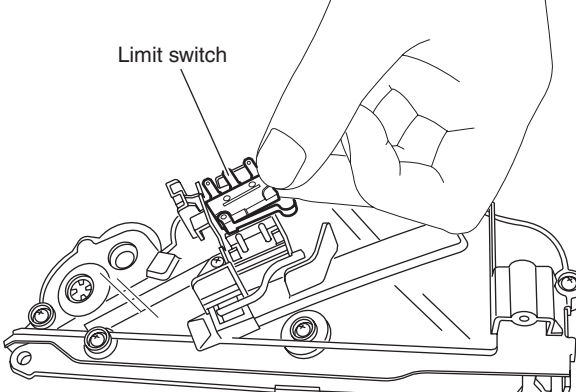
Procedure



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| Step | Procedure | Points |
|------|--|--------|
| 1 | <p>Cut the clamp of the front panel mechanism ASSY (right).</p>  <p style="text-align: right;">(R12104)</p> | |
| 2 | <p>Release the harness from the hooks.</p>  <p style="text-align: right;">(R12105)</p> | |
| 3 | <p>Pull out the terminals of the limit switch.</p>  <p style="text-align: center;">Limit switch</p> <p style="text-align: right;">(R12106)</p> | |

| Step | Procedure | Points |
|------|--|--------|
| 4 | Remove the screw of the reduction motor. | |
| |  <p style="text-align: center;">Reduction motor</p> <p style="text-align: right;">(R12107)</p> | |
| 5 | Remove the reduction motor by turning it counterclockwise. | |
| |  <p style="text-align: right;">(R12108)</p> | |
| 6 | Remove the limit switch. | |
| |  <p style="text-align: right;">(R12109)</p> | |

7. Removal of Fan Guards / Electrical Box

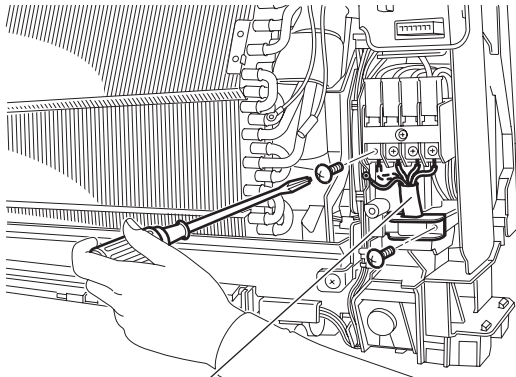
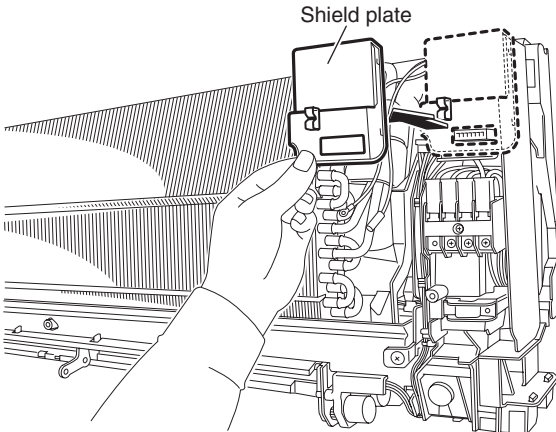
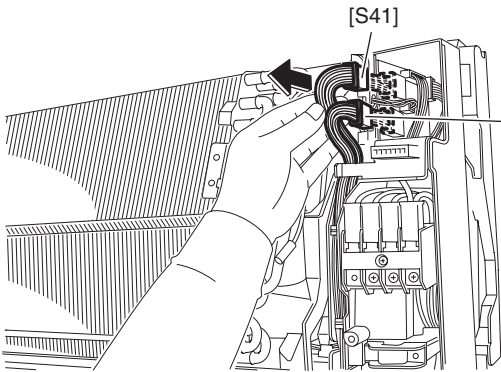
Procedure

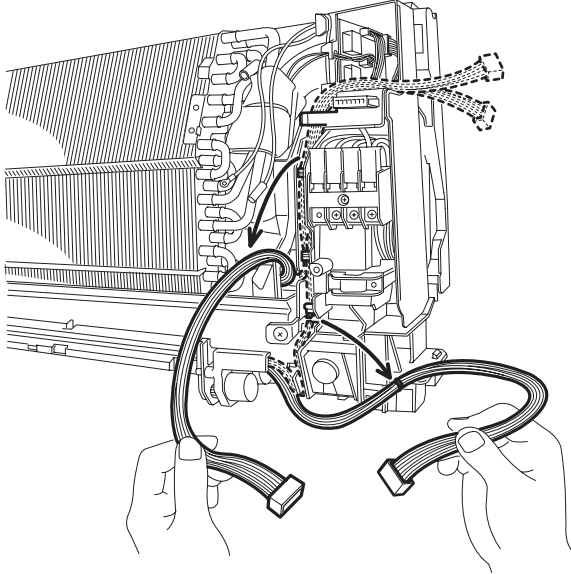
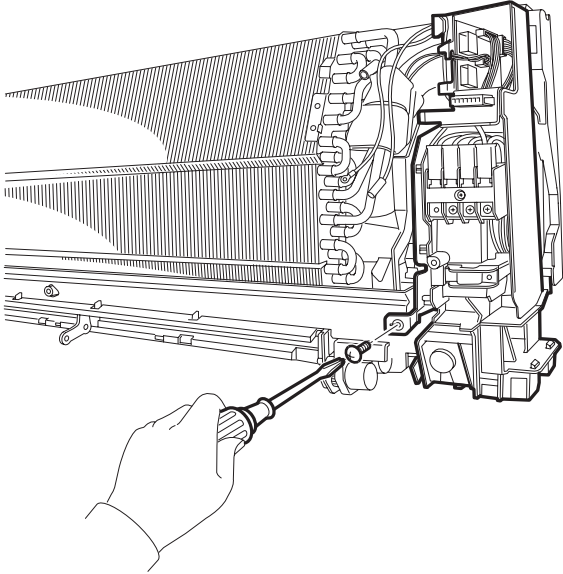
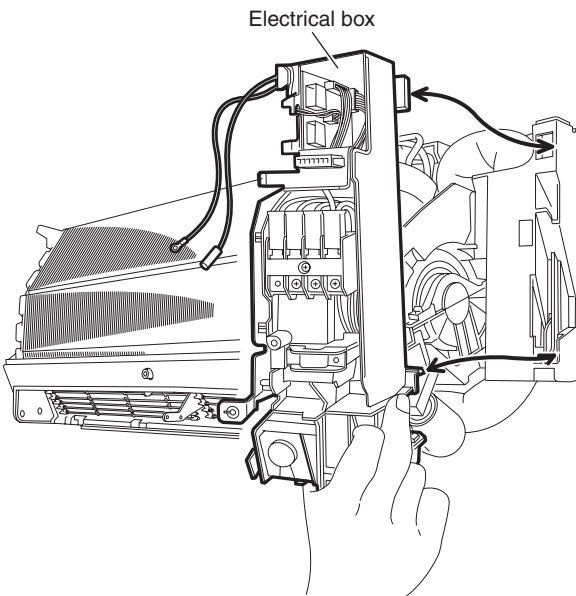


Warning

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| Step | Procedure | Points |
|--|---|---|
| <p>1. Remove the fan guards.</p> <p>1 Unfasten the 2 hooks and remove the fan guard.</p> | <p>Fan guard</p> <p>(R12110)</p> | <ul style="list-style-type: none"> Use a sharp tool such as an awl to unfasten the lower hooks. |
| <p>2. Remove the electrical box.</p> <p>1 Remove the screw and remove the drip proof plate.</p> <p>2 Remove the screw and release the earth wire. Pull out the indoor heat exchanger thermistor.</p> | <p>Drip proof plate</p> <p>Indoor heat exchanger thermistor</p> <p>Earth wire</p> <p>(R15283)</p> <p>(R12112)</p> | <p>Preparation</p> <ul style="list-style-type: none"> Remove the front grille according to the "Removal of Front Grille". |

| Step | Procedure | Points |
|------|---|--------|
| 3 | <p>Remove the screws and release the connecting wires.</p>  <p style="text-align: center;">Connecting wire</p> <p style="text-align: right;">(R12113)</p> | |
| 4 | <p>Remove the shield plate.</p>  <p style="text-align: right;">(R12114)</p> | |
| 5 | <p>Disconnect the connectors for the swing motors [S41] and for the fan motor [S200].</p>  <p style="text-align: right;">(R12115)</p> | |

| Step | Procedure | Points |
|------|---|---|
| 6 | <p>Release the harnesses.</p>  <p>(R12116)</p> | |
| 7 | <p>Remove the screw.</p>  <p>(R12117)</p> | |
| 8 | <p>Unfasten the 2 hooks and remove the electrical box.</p>  <p>Electrical box</p> <p>(R12118)</p> | <ul style="list-style-type: none"> There are 2 hooks on the bottom frame. When reassembling, fit the rear side of the electrical box to the hooks. |

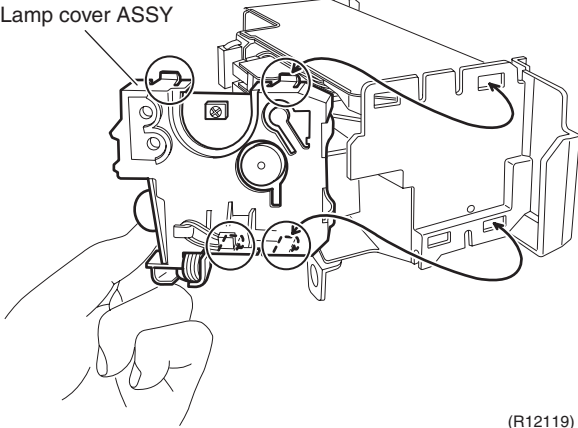
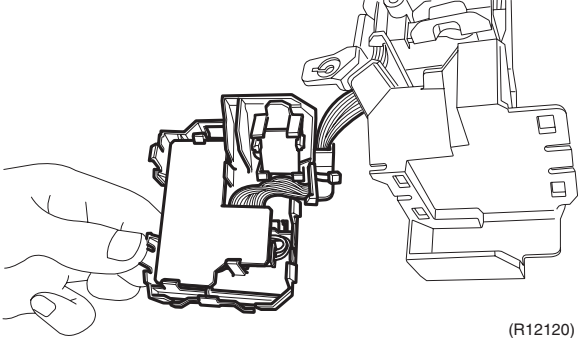
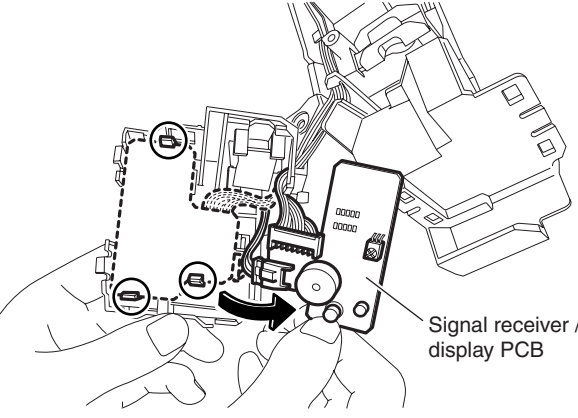
8. Removal of PCBs

Procedure

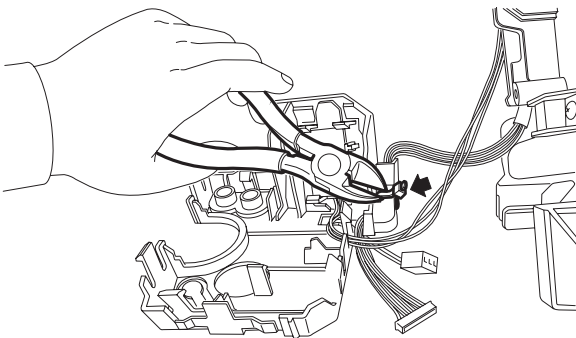
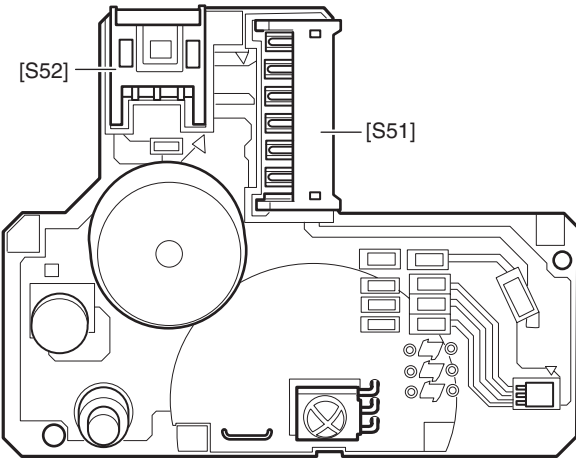
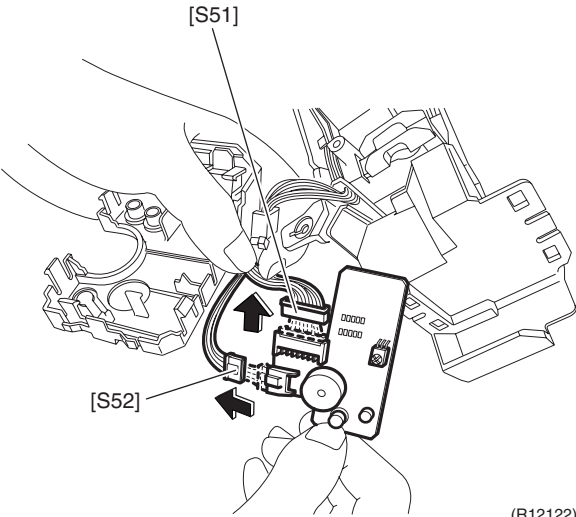


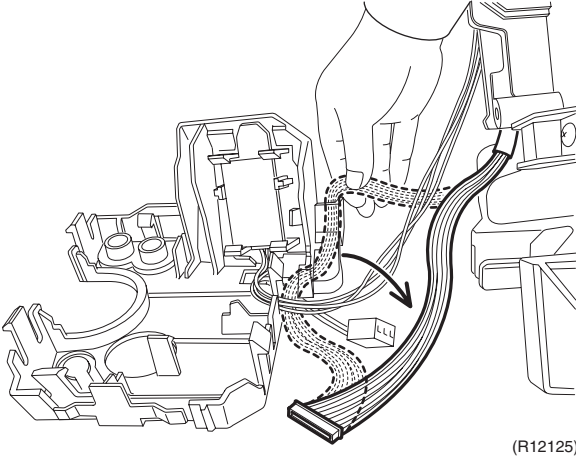
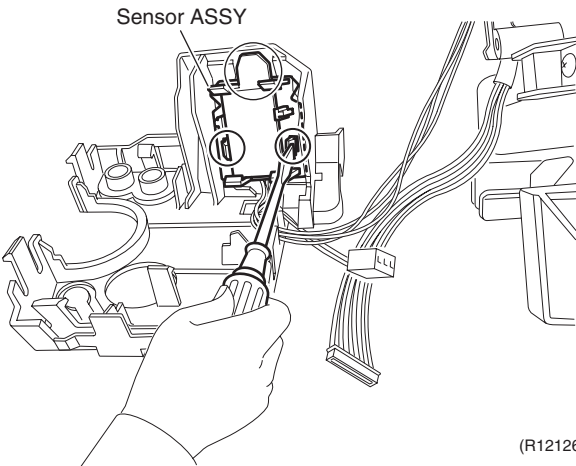
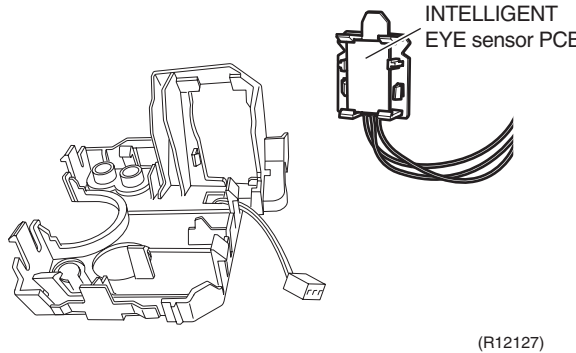
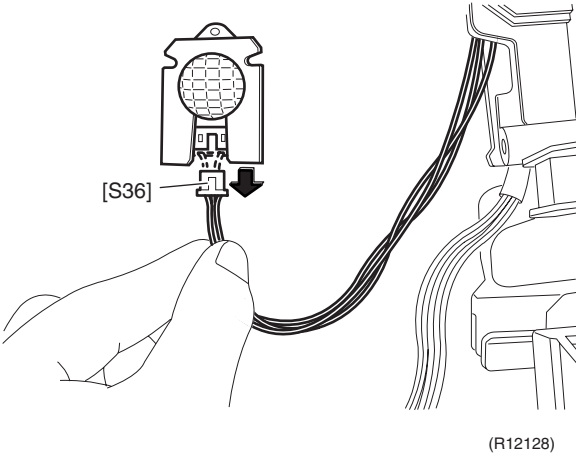
Warning

Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

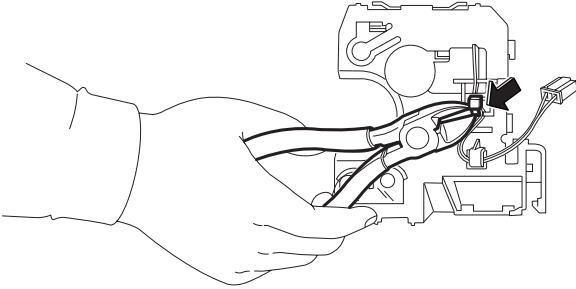
| Step | Procedure | Points |
|------|--|--------|
| 1 | <p>Unfasten the 4 hooks and remove the lamp cover ASSY from the electrical box.</p>  <p>(R12119)</p> | |
| 2 | <p>Turn over the lamp cover ASSY.</p>  <p>(R12120)</p> | |
| 3 | <p>Unfasten the 3 hooks and remove the signal receiver / display PCB.</p>  <p>(R12121)</p> | |

| Step | Procedure | Points |
|------|---|--|
| 4 | <p>Disconnect the connectors for the control PCB [S51] and for the room temperature thermistor [S52].</p> | <p>[S51]: control PCB [S52]: room temperature thermistor</p> |
| 5 | <p>Cut the clamp.</p> | |

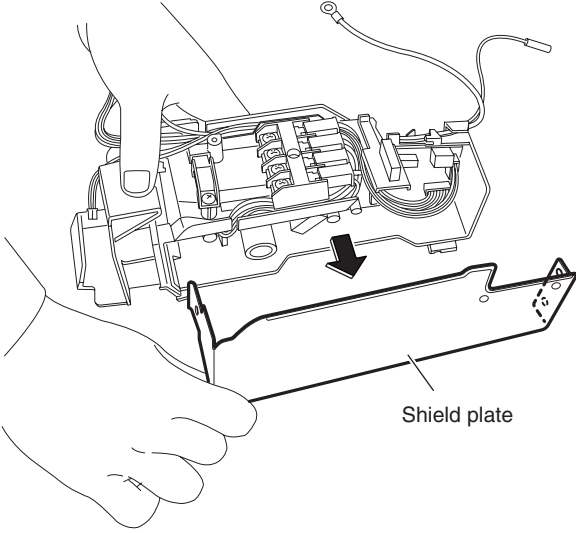


| Step | Procedure | Points |
|------|--|--------|
| 6 | Release the harness from the hook. | |
| |  <p>(R12125)</p> | |
| 7 | Unfasten the 3 hooks of the sensor ASSY with a flat screwdriver. | |
| |  <p>Sensor ASSY</p> <p>(R12126)</p> | |
| 8 | Remove the sensor ASSY. | |
| |  <p>INTELLIGENT EYE sensor PCB</p> <p>(R12127)</p> | |
| 9 | Disconnect the connector [S36] from the INTELLIGENT EYE sensor PCB. | |
| |  <p>[S36]</p> <p>(R12128)</p> | |

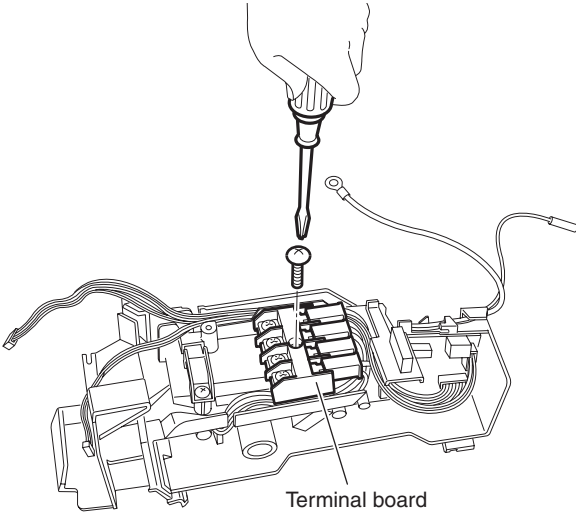
| Step | Procedure | Points |
|------|---|--------|
| 10 | Cut the clamp. | |
| 11 | Remove the shield plate. | |
| 12 | Remove the screw of the terminal board. | |



(R12129)

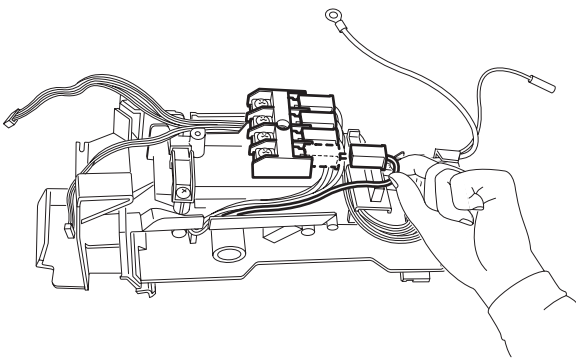


(R12130)

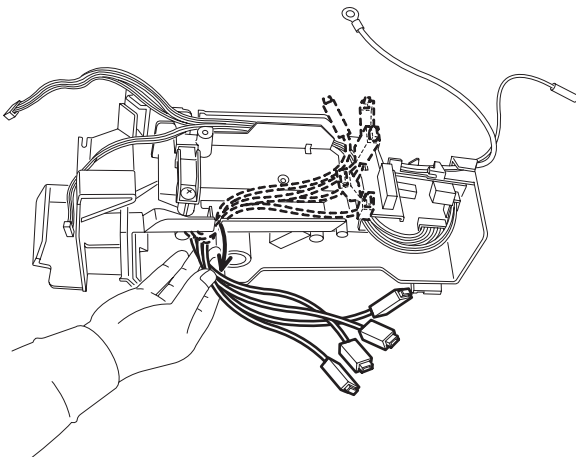


(R12131)

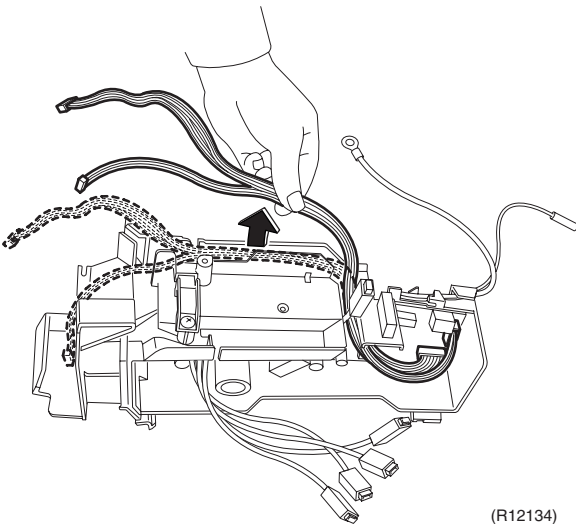
| Step | Procedure | Points |
|------|---|--------|
| 13 | Pull out the terminals and remove the terminal board. | |
| 14 | Release the harnesses from the groove. | |
| 15 | Release the harnesses of the signal receiver / display PCB. | |
| 16 | Unfasten the 3 hooks. | |



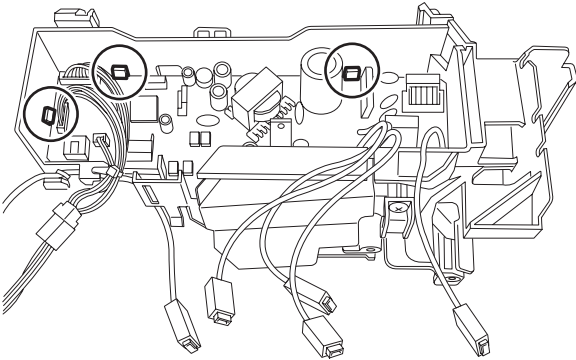
(R12132)



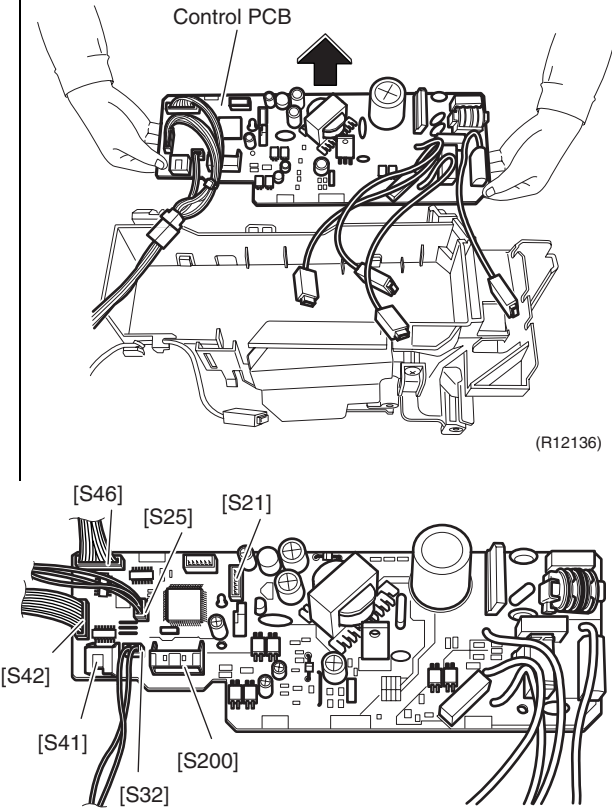
(R12133)



(R12134)



(R12135)

| Step | Procedure | Points |
|-----------|---|---|
| <p>17</p> | <p>Unfasten the other 2 hooks and remove the control PCB.</p>  <p>(R12136)</p> <p>(R12137)</p> | <p>[S21]: HA connector [S25]: INTELLIGENT EYE sensor PCB [S32]: indoor heat exchanger thermistor [S41]: swing motors [S42]: reduction motor / limit switch [S46]: signal receiver / display PCB [S200]: fan motor</p> |

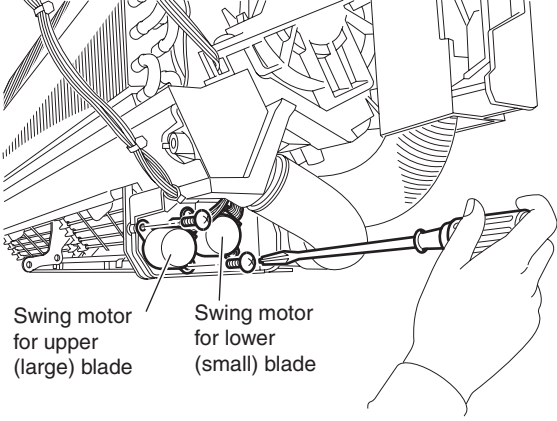
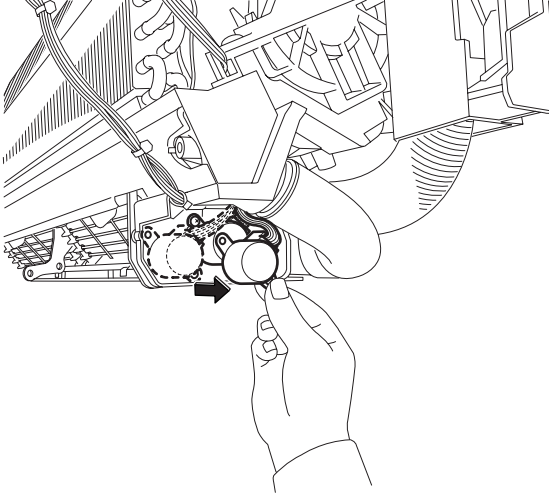
9. Removal of Swing Motors

Procedure



Warning

Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

| Step | Procedure | Procedure | Points |
|------|---|--|---|
| 1 | Remove the 2 screws of the swing motor. |  <p data-bbox="515 707 639 786">Swing motor for upper (large) blade</p> <p data-bbox="699 707 823 786">Swing motor for lower (small) blade</p> <p data-bbox="1007 831 1074 853">(R12138)</p> | <ul style="list-style-type: none"> ■ Connector color Upper blade: white Lower blade: red |
| 2 | Remove the swing motor. |  <p data-bbox="1007 1406 1074 1429">(R12139)</p> | <ul style="list-style-type: none"> ■ Remove the other swing motor in the same way. |

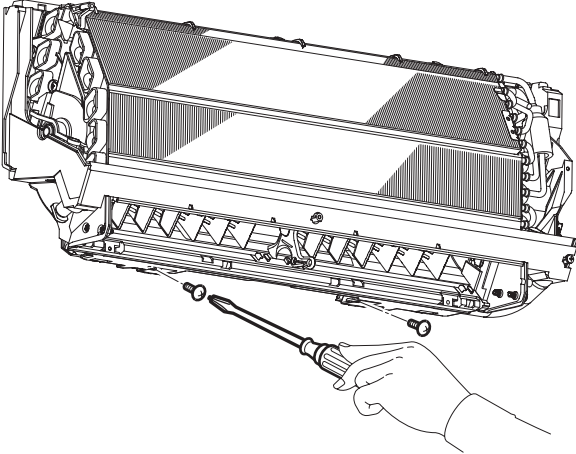
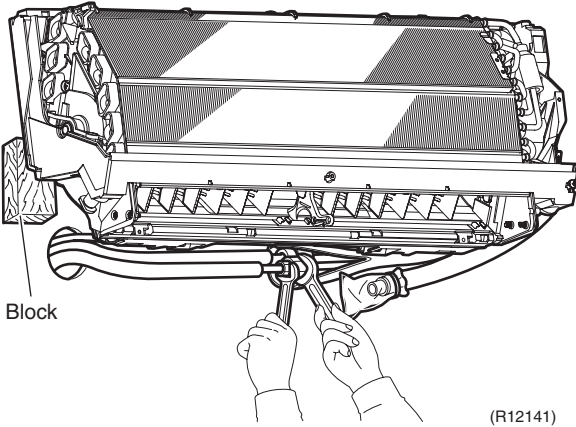
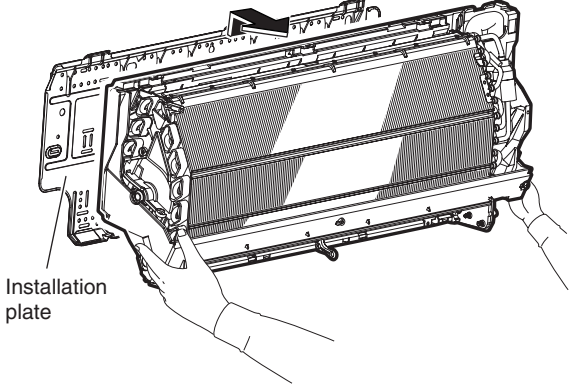
10. Removal of Indoor Heat Exchanger

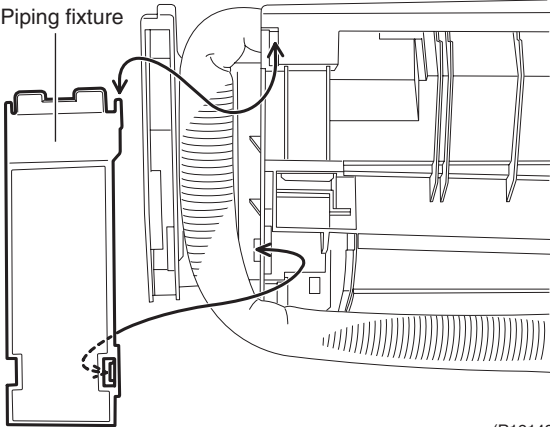
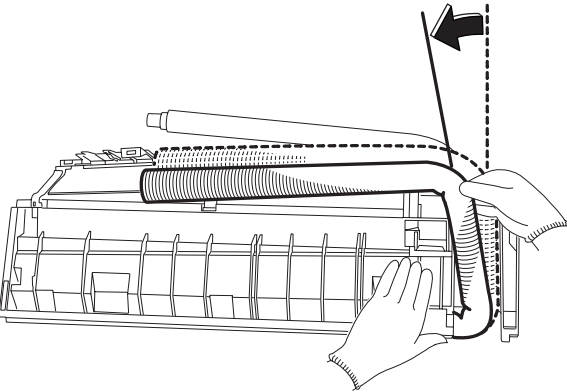
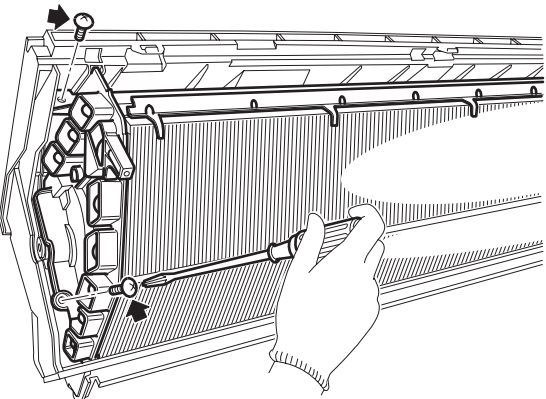
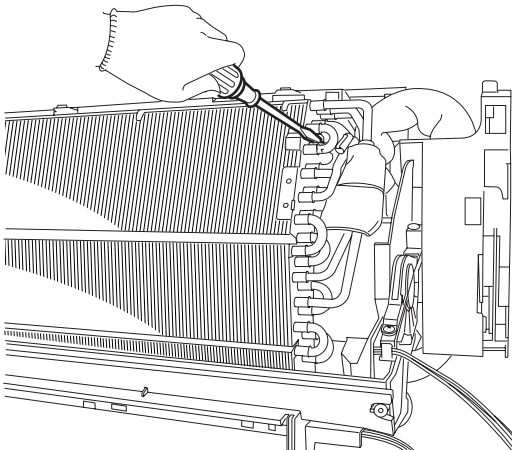
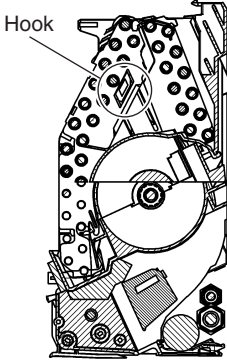
Procedure

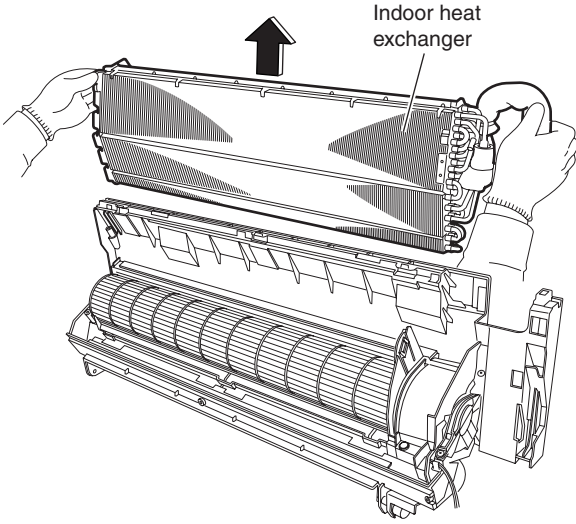


Warning

Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

| Step | Procedure | Points |
|---|---|--|
| <p>1. Disconnect the refrigerant piping.</p> <p>1 Remove the screws fixed to the installation plate.</p> <p>2 Hold the indoor unit up with a block. Disconnect the pipings with 2 wrenches.</p> |  <p style="text-align: right;">(R12140)</p>  <p>Block</p> <p style="text-align: right;">(R12141)</p> | <p> Caution</p> <p>In pump-down work, be sure to stop the compressor before disconnecting the refrigerant pipe. If the refrigerant pipe is disconnected with the compressor operating and the stop valve open, air may be sucked in to generate an over-pressure in refrigeration cycle, thus resulting in pipe rupture or accidental injury.</p> <ul style="list-style-type: none"> ■ Place a plastic sheet under the drain pan to prevent from wetting the floor with remaining drain. ■ If the drain hose is embedded in the wall, disconnect the drain hose beforehand. ■ When the pipings are disconnected, protect the both openings of pipe side and unit side from entering of moisture. |
| <p>2. Remove the indoor unit.</p> <p>1 Detach the indoor unit from the installation plate.</p> |  <p>Installation plate</p> <p style="text-align: right;">(R12142)</p> | |

| Step | Procedure | Points |
|------|--|--|
| 3. | Remove the indoor heat exchanger. | |
| 1 | <p>Unfasten the hook of the piping fixture at the back of the indoor unit and pull out the pipe.</p>  <p style="text-align: right;">(R12143)</p> | |
| 2 | <p>Slightly widen the auxiliary pipe.</p>  <p style="text-align: right;">(R12144)</p> | <p>⚠ Caution When dismantling or mounting the indoor heat exchanger, be sure to wear gloves or wrap it with cloth before proceeding to the work. (You may be injured by the fins.)</p> |
| 3 | <p>Remove the 2 screws on the left side of the unit.</p>  <p style="text-align: right;">(R12145)</p> | |
| 4 | <p>Unfasten the hook on the right side of the unit with a flat screwdriver.</p>  <p style="text-align: right;">(R12146)</p> | <p>■ When reassembling, engage the hook.</p>  <p style="text-align: right;">(R12159)</p> |

| Step | Procedure | Points |
|------|--|--------|
| 5 | <p data-bbox="201 215 472 275">Remove the indoor heat exchanger.</p>  <p data-bbox="978 770 1046 790">(R12147)</p> | |

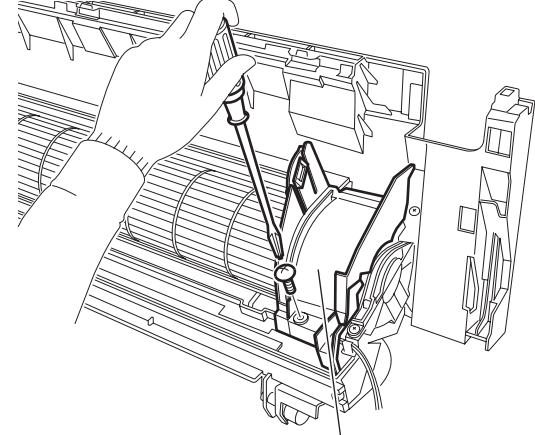
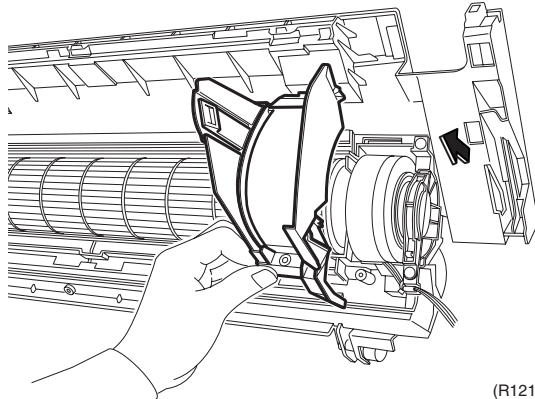
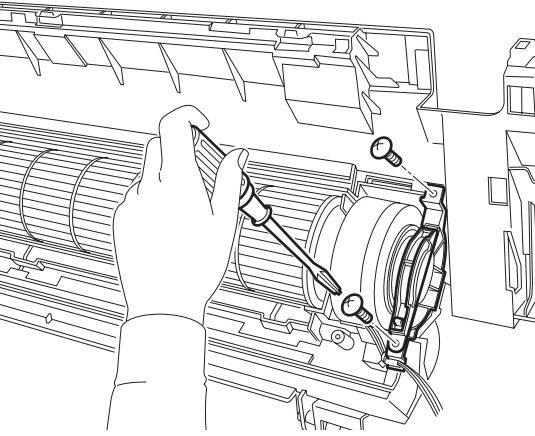
11. Removal of Fan Rotor / Fan Motor

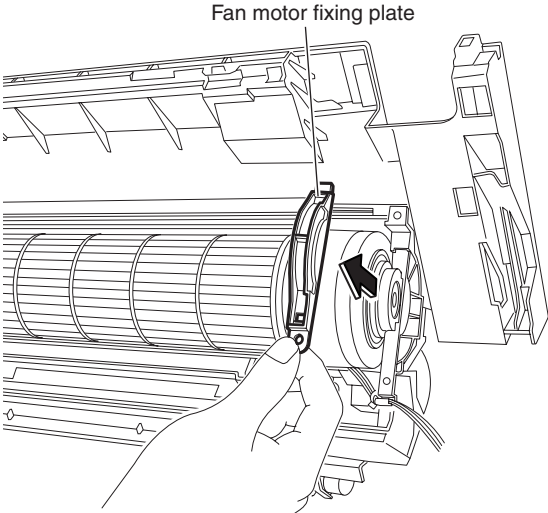
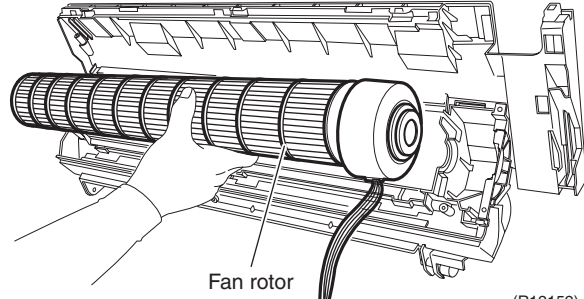
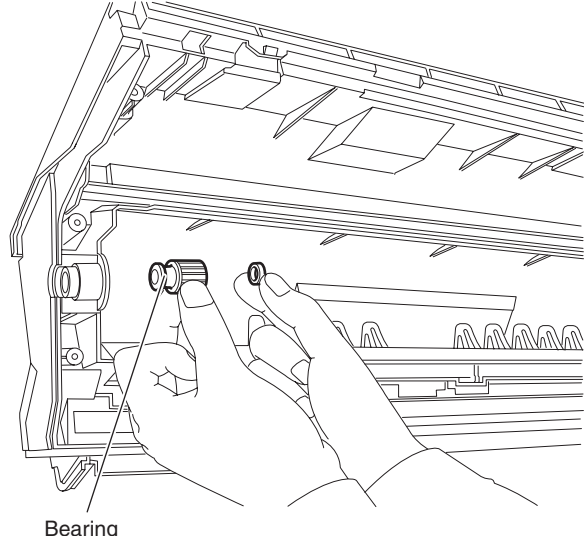
Procedure

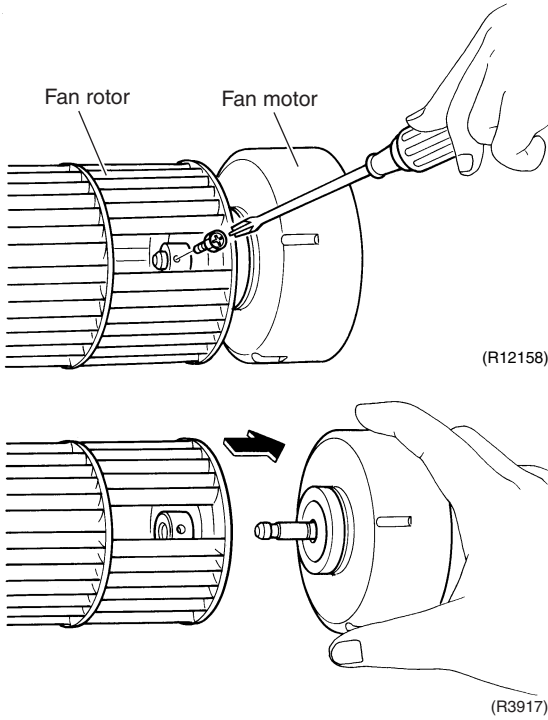
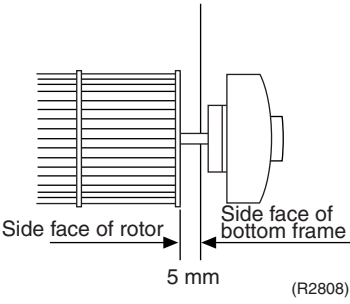


Warning

Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

| Step | Procedure | Points |
|---------------------------------|--|--|
| 1. Remove the right side panel. |  <p style="text-align: right;">Right side panel (R12148)</p> | <ul style="list-style-type: none"> ■ You can remove the fan rotor without detaching the right side panel. |
| 1 Remove the screw. |  <p style="text-align: right;">(R12149)</p> | |
| 2. Remove the fan rotor. |  <p style="text-align: right;">(R12150)</p> | |
| 1 Remove the 2 screws. | | |

| Step | | Procedure | Points |
|------|------------------------------------|--|----------------------|
| 2 | Remove the fan motor fixing plate. |  <p>Fan motor fixing plate</p> | |
| 3 | Remove the fan rotor. |  <p>Fan rotor</p> | (R12151) (R12152) |
| 4 | Remove the bearing. |  <p>Bearing</p> | (R12153) |

| Step | Procedure | Points |
|--|--|---|
| <p>3. Remove the fan motor.</p> <p>1</p> | <p>Remove the screw and remove the fan motor.</p>  | <ul style="list-style-type: none"> When reassembling the fan motor and the fan rotor, provide as much as 5 mm of play between the side face of the rotor and the bottom frame.  |

12. Removal of Vertical Blade ASSYs

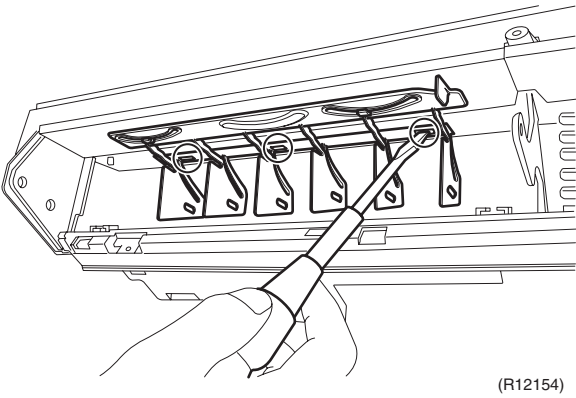
Procedure



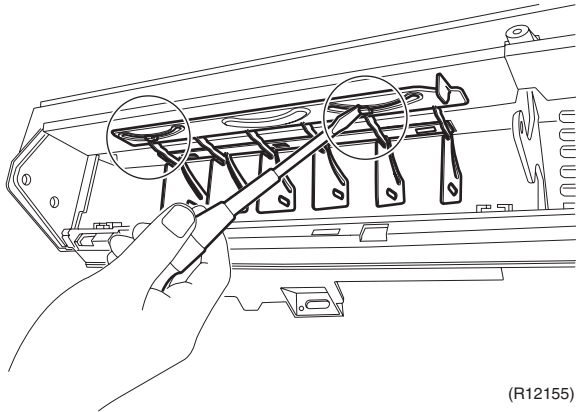
Warning

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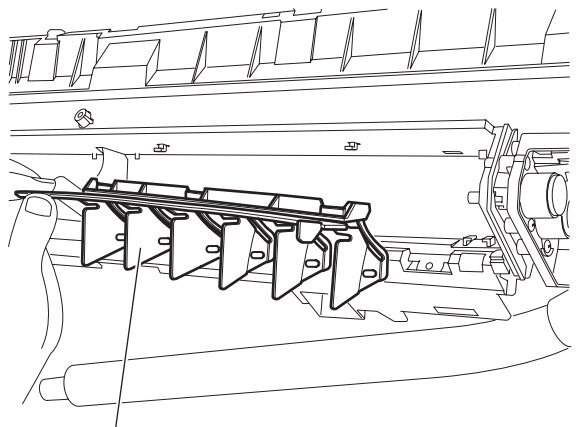
| Step | Procedure | Points |
|------|---|---|
| 1 | Unfasten the 3 hooks at the shaft mounting part by pressing them with a flat screwdriver. | <ul style="list-style-type: none"> ■ A vertical blade ASSY has 6 fins. It is impossible to replace only one fin. ■ The vertical blade ASSY is not marked for difference between right and left. |
| 2 | Unfasten the hooks at the upper 2 positions with a flat screwdriver. | |
| 3 | Remove the vertical blade ASSY. | |



(R12154)



(R12155)



Vertical blade ASSY

(R12156)

Revision History

| Month / Year | Version | Revised contents |
|--------------|----------|------------------|
| 08/2012 | Si041146 | First edition |

Warning



- Daikin products are manufactured for export to numerous countries throughout the world. Prior to purchase, please confirm with your local authorised importer, distributor and/or retailer whether this product conforms to the applicable standards, and is suitable for use, in the region where the product will be used. This statement does not purport to exclude, restrict or modify the application of any local legislation.
- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Read the User's Manual carefully before using this product. The User's Manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any enquiries, please contact your local importer, distributor and/or retailer.

Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.

Dealer

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