

9 Replacing the Parts of a BTS3012 Cabinet

About This Chapter

The parts of the BTS3012 cabinet include the fan box, air filter, and busbar power switch.

[9.1 Replacing the Fan Box of a BTS3012/BTS3012AE Cabinet](#)

The fan box of the BTS3012/BTS3012AE cabinet is installed in the fan subrack of the cabinet. During the replacement of the fan box, the temperature inside the BTS may increase. An overtemperature alarm may be reported, but the services carried on the BTS are not affected.

[9.2 Replacing the Air Filter of a BTS3012 Cabinet](#)

The air filter is installed in the inner side of the front door of a BTS3012 cabinet. It is fixed on the front door by a zig strap. If the air filter is damaged, you need to replace it with a new one. The replacement of the air filter does not affect the running of the BTS.

[9.3 Replacing the Busbar Power Switch of a BTS3012 Cabinet](#)

Replacing the busbar power switch leads to the power-off of the related subrack and interrupts the services of the boards in the subrack. Therefore, replace it at a suitable time.

9.1 Replacing the Fan Box of a BTS3012/BTS3012AE Cabinet

The fan box of the BTS3012/BTS3012AE cabinet is installed in the fan subrack of the cabinet. During the replacement of the fan box, the temperature inside the BTS may increase. An overtemperature alarm may be reported, but the services carried on the BTS are not affected.

Prerequisite

- A new fan box is ready.
- You have confirmed the position and the version of the fan box.
- You have marked the installation positions of the cables on the fan box.
- You have arranged the required tools, including a screwdriver, cutting plier, ESD wrist strap, and the key to the front door of the cabinet.

Context

The replacement of the fan box takes about three minutes.



CAUTION

Take correct ESD prevention measures, such as wearing an ESD wrist strap or ESD gloves, to avoid static damage to boards, modules, and electronic components.



CAUTION

After the operation, remove the ESD wrist strap, arrange its line, and place it on the zig strap of the air filter inside the door of the cabinet. Confirm that the cables and parts are in position. The ESD wrist strap must not be connected to the ESD jack when you close the door. Otherwise, the door will get stuck by the ESD wrist strap and the ESD wrist strap or the cabinet door will be damaged.

Procedure

Step 1 Power off the fan box.

If...	Then...
The power-off is performed in the BTS3012	Set the MCB FAN on the busbar to OFF.
The power-off is performed in the BTS3012AE	Set the MCB FAN on the DC power distribution box to OFF.

Step 2 Remove the cables from the panel.

Pull out the COM and the PWR connectors.

Step 3 Remove the faulty fan box.

1. Loosen the four screws fixing the fan box.
2. Press the black button on the upper side of the panel to reveal the pulling eye.
3. Pull out the fan box one-third of its length.
4. Hold the fan box with the other hand and then pull out the fan box.

Step 4 Install a new fan box.

1. Hold the fan box and put it into the subrack.
2. Push the fan box until it is secure.
3. Fix the pulling eye on the panel.
4. Tighten the four screws fixing the fan box.

Step 5 Install cables to the panel.

Install the cables according to the marked installation positions.

Step 6 Power on the fan box.

If...	Then...
The power-off is performed in the BTS3012	Set the MCB FAN on the busbar to ON.
The power-off is performed in the BTS3012AE	Set the MCB FAN on the DC power distribution box to ON.

----End

Postrequisite

Check the installed fan box. For details, refer to [7.1.4 Checking the Installed BTS3012/BTS3012AE Board](#).

Handle the replaced fan box. For details, refer to [7.1.5 Handling the Replaced BTS3012/BTS3012AE Board and Module](#).

9.2 Replacing the Air Filter of a BTS3012 Cabinet

The air filter is installed in the inner side of the front door of a BTS3012 cabinet. It is fixed on the front door by a zig strap. If the air filter is damaged, you need to replace it with a new one. The replacement of the air filter does not affect the running of the BTS.

Prerequisite

- A new air filter is ready.
- You have arranged the required tools, including a screwdriver, cutting plier, ESD wrist strap, and the key to the front door of the cabinet.

Context

The replacement of the air filter takes about eight minutes.



CAUTION

Take correct ESD prevention measures, such as wearing an ESD wrist strap or ESD gloves, to avoid static damage to boards, modules, and electronic components.



CAUTION

After the operation, remove the ESD wrist strap, arrange its line, and place it on the zig strap of the air filter inside the door of the cabinet. Confirm that the cables and parts are in position. The ESD wrist strap must not be connected to the ESD jack when you close the door. Otherwise, the door will get stuck by the ESD wrist strap and the ESD wrist strap or the cabinet door will be damaged.

Procedure

- Step 1** Remove the file box from the upper part of the inner side of the cabinet front door.
- Step 2** Remove the old air filter. Disconnect the air filter from the zig strap.
- Step 3** Install the new air filter. Place the air filter between the inner side of the front door and the dust filter holder. Stick the air filter along the rim of the inner side of the front door. Stick the air filter to the zig strap firmly to prevent it from falling.
- Step 4** Install the file box.
- Step 5** Close the front door.

----End

Postrequisite

None.

9.3 Replacing the Busbar Power Switch of a BTS3012 Cabinet

Replacing the busbar power switch leads to the power-off of the related subrack and interrupts the services of the boards in the subrack. Therefore, replace it at a suitable time.

Prerequisite

- A new busbar power switch is ready.

- You have arranged the required tools, including a screwdriver, ESD wrist strap, and the key to the front door of the cabinet.

Context

The replacement of the busbar power switch takes about 10 minutes.



CAUTION

Take correct ESD prevention measures, such as wearing an ESD wrist strap or ESD gloves, to avoid static damage to boards, modules, and electronic components.



CAUTION

After the operation, remove the ESD wrist strap, arrange its line, and place it on the zig strap of the air filter inside the door of the cabinet. Confirm that the cables and parts are in position. The ESD wrist strap must not be connected to the ESD jack when you close the door. Otherwise, the door will get stuck by the ESD wrist strap and the ESD wrist strap or the cabinet door will be damaged.

Procedure

Step 1 Switch off the faulty busbar power switch.

Step 2 Remove the faulty busbar power switch.

Hold both sides of the busbar power switch and pull it out from the socket.

Step 3 Install the new busbar power switch.

Insert the new busbar power switch into the original position and push it inwards until you feel obvious resistance.

----End

Postrequisite

After replacing the busbar power switch, verify the following:

1. The new busbar power switch is in the same line with other busbar power switches.
2. The running indicators are normal after the busbar power switch is switched on.

Handle the replaced busbar power switch yourself.