6 Exciter Components

You can replace the following exciter components:

- Exciter
- Exciter Switch

6.1 Replacing the Exciter

ATTENTION!
Always make sure that the power supply is disconnected before commencing any service work on the transmitter rack; this will prevent injury caused by electric shock and damage to the instruments.

6.1.1 Removing the Exciter

1. Switch off automatic line fuse F2 (Exciter A) or F3 (Exciter B).
2. Undo the two captive screws (Torx screwdriver No. 20) of both the NETCCU® and the exciter on the front brackets (next to the handles).
3. Using the handles, slowly pull out the rackmount from the rack as far as it will go (the guide rails will engage and lock in place).
4. Disconnect the control cable from the side of the exciter switch.
5. Disconnect the cabling from the upper and lower side of the exciter switch.

Fig. 14 *Removing the exciter from the transmitter rack*

1) Captive screws on the front panel of the built-in equipment (in this case exciter and NETCCU)
2) Screw-connections of the exciter on the rackmount
3) Guide rails
4) Safety lever for undoing the latch of the guide rails

6. On both sides of the exciter undo the two fixing screws (Torx screwdriver No. 9) from the rackmount.
7. Pull the exciter from the rackmount.

6.1.2 Installing the Exciter

To install the unit in the transmitter, reverse the procedure used to remove it.

1. Slide the exciter into the cabinet horizontally on the support brackets until the screw holes on the cabinet and on the side panels of the exciter match.
2. Fasten the exciter with two screws on each side.
3. Connect the cables to the exciter according to the labeling (see yellow cable collars).
4. Undo the latch on the guide rails. Simultaneously press down the safety lever on the right side and up on the left side and insert the rackmount into the rack.
5. Refasten the captive screws to the front panels of the NETCCU® and the exciter.

6.2 Replacing the Exciter Switch

ATTENTION!
Always make sure that the power supply is disconnected before commencing any service work on the transmitter rack; this will prevent injury caused by electric shock and damage to the instruments.

6.2.1 Removing the Exciter Switch

The exciter switch is included in transmitters with the standby exciter option (two exciters); it is located behind the two exciters.

Note *So that you can conveniently remove the exciter switch, you need to retract the NETCCU® and the exciter from the rack.*

1. Undo the two captive screws of both the NETCCU® and the exciter on the front brackets (next to the handles).
2. Using the handles, slowly pull out the rackmount from the rack as far as it will go (the guide rails will engage and lock in place).
3. Disconnect power cables from the side of the exciter switch.

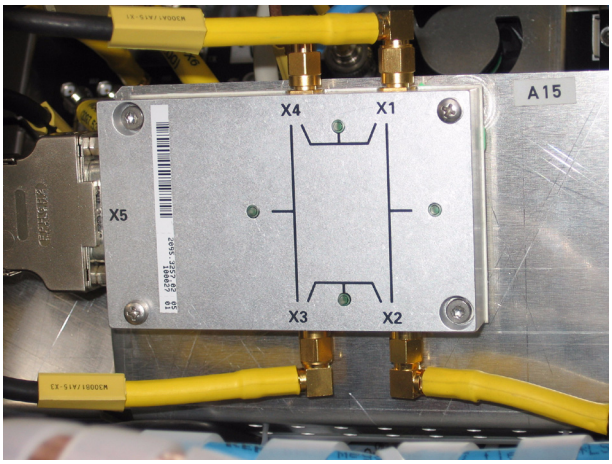


Fig. 15 *Removing the exciter switch from the transmitter rack*

4. Disconnect all cabling from the rear of the exciter switch.
5. Undo the fixing screws on the exciter switch.
6. Pull the exciter switch from the transmitter rack.

6.2.2 Installing the Exciter Switch

To install the unit in the transmitter, reverse the procedure used to remove it.

1. Connect the cables to the exciter switch according to the labeling (see yellow cable collars).
2. Undo the latch on the guide rails. Simultaneously press down the safety lever on the right side and up on the left side and insert the rackmount into the rack.
3. Refasten the captive screws to the front panels of the NETCCU® and the exciter.

7 Output Stage Components

You can replace the following output stage components:

- Amplifier
- Absorber

Note *Because of the extremely small probability of failure, replacement of the splitter-combiner unit will not be described.*

7.1 Replacing the Amplifier

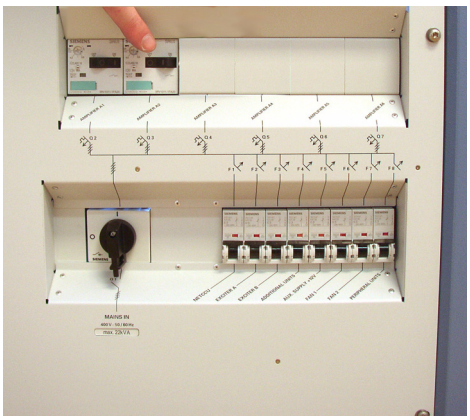
When replacing an amplifier from the Rohde & Schwarz NW8000 transmitters, you do not have to remove any of the lines since the connections on the rear panel of the device are connected to the rack using automatic connectors.

7.1.1 Removing the Amplifier

ATTENTION!
Prior to being removed, the amplifier must be switched free of all voltages in order to prevent any possible damage to the device due to contact consumption.

1. Switch off the amplifier via the AC distributor in the transmitter rack (turn the the appropriate protective switch to the "OFF" position).

Note *The other devices in the transmitter rack can remain connected. A transmitter with multiple amplifiers can remain in operation with reduced power during the exchange of the amplifier.*



2. Undo the four captive screws (Torx screwdriver No. 20) on each side of the front panel.

CAUTION!
Risk of burns on the heat sink. Let the amplifier cool down for about five minutes with the transmitter cooling switched on before you remove it from the transmitter rack.

CAUTION!
When you pull it out of the transmitter rack, do not allow the amplifier to fall. Support it from below. The amplifier weighs about 25 kg so we suggest that you use two people to handle it.

3. Slowly pull the amplifier from the rack using the handles.

   The automatic connectors should release on the rear panel of the device.

ATTENTION!
To avoid damaging the connectors, do not place the amplifier on its back.

4. Put the amplifier down with the bottom of the instrument facing downward.

7.1.2 Installing the Amplifier

To install the unit in the transmitter, reverse the procedure used to remove it.

7.2 Replacing the Absorber

ATTENTION!
Always make sure that the power supply is disconnected before commencing any service work on the transmitter rack; this will prevent injury caused by electric shock and damage to the instruments.

7.2.1 Removing the Absorber

To remove the absorber proceed as follows:

1. Using a Torx screwdriver No. 20, remove the rear panel of the rack.
2. Disconnect the RF connecting cables **W1**, **W2** and **W3** to the splitter-combiner unit.
3. Using a Torx screwdriver No. 20 remove all six fixing screws.
4. Pull the absorber unit from the rackmount air outlet duct.

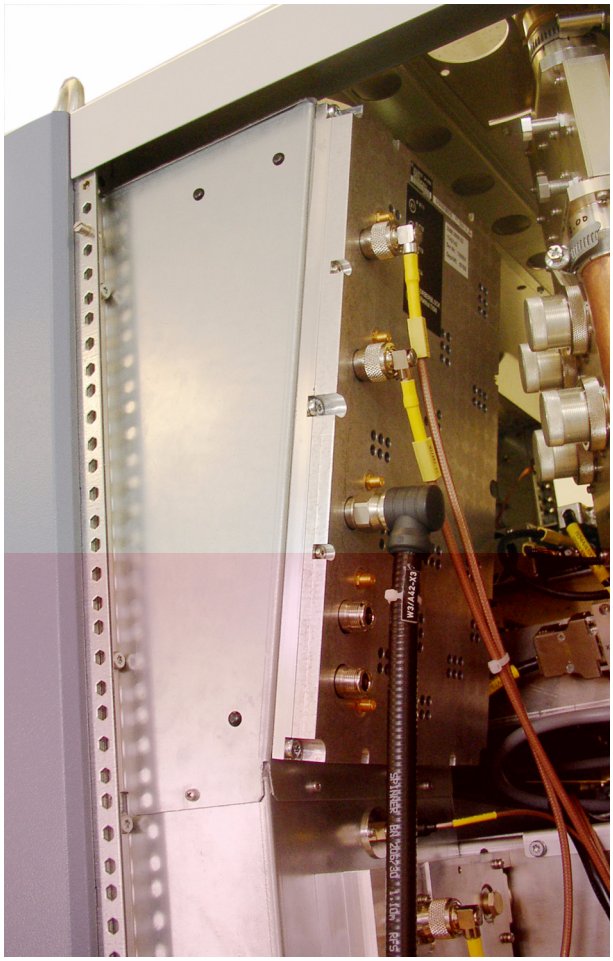


Fig. 16 Removing the absorber

7.2.2 Installing the Absorber

To install the unit in the transmitter, reverse the procedure used to remove it.