

# Install EFN modules

In this documentation you will find information about:

- Installing EFN modules in ES40 amplifiers
- Installing EFN modules in ES10, ES20, SSA100 and SSA200 amplifiers

## Installing EFN modules in ES40 amplifiers:

The figure shows the installation of the EFN modules in an ES40.

Because the ES40 features the front accessible Extended Function Network, the amplifier does not have to be opened, nor does it have to be removed from its rack to install the EFN modules. To (re)place the EFN module(s), switch off the amplifier and remove the EFN lid from the front of the amplifier and simply plug in the EFN modules. These modules 'click' into the connectors and do not have to be secured by any screws.

In ES40s, the upper module is intended for channel 1 or bridge mode operation, the lower one is intended for channel 2. Make sure you switch the adjacent switch(es) to the <ON> position, otherwise the EFN modules are bypassed. Afterwards put the lid back in its original position.

It should be noted that the standard EFN-DP protection boards are not suitable for bridge mode operation!

Special bridge mode modules are available for this purpose.

When removing the EFN modules, switch the adjacent switch(es) back to the <OFF> position, otherwise the signal path to the power amplifier is interrupted and the amplifier will not work!

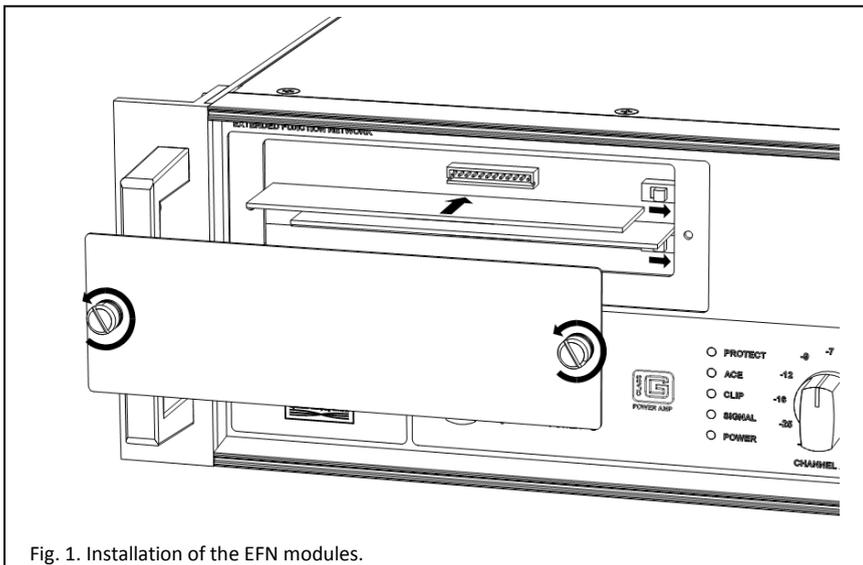


Fig. 1. Installation of the EFN modules.

## Installing EFN modules in ES10, ES20, SSA100 and SSA200 amplifiers:

### WARNING!

To install EFN modules the amplifier has to be opened. Dangerous voltages up to 240 Volts may be present in the amplifier. Installation has therefore to be carried out by a qualified technician.

The figures show the installation in an ES20. Installation in ES10, SSA100 and SSA200 amplifiers is similar.

To install the EFN module, disconnect the amplifier from the mains power supply and remove the lid by removing eight screws from the top and two from each side of the amplifier as shown in figure 2. When lifting the lid beware of the ground connection cable attached to the underside of the lid.

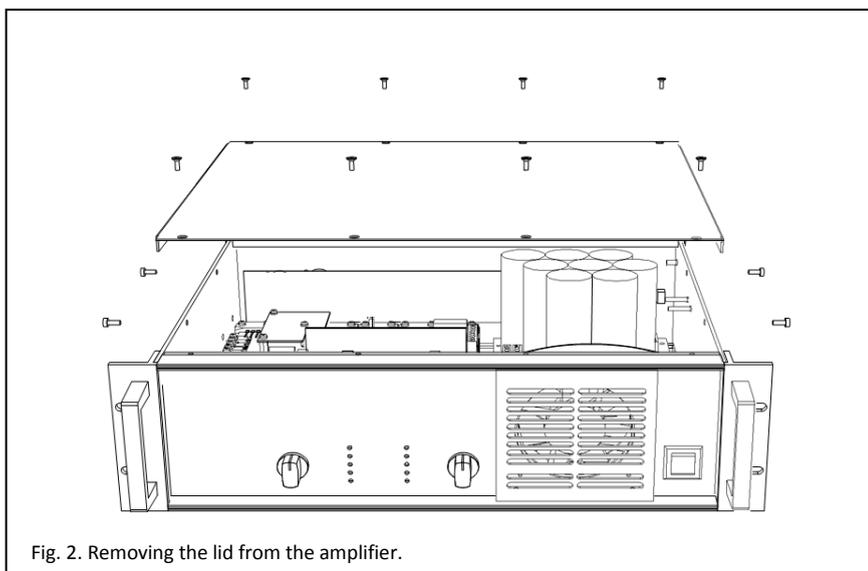


Fig. 2. Removing the lid from the amplifier.

Figure 3 shows where to insert the EFN module for channel 1. The module 'clicks' into the connector on the amplifier board and does not need to be secured by any screws. To activate the EFN module, jumper J1 on the amplifier board needs to be placed in the position 'EQ CARD' (see figure 3) otherwise the EFN modules are bypassed. The installation procedure of the channel 2 EFN module is identical to the installation of the channel 1 module.

For bridge mode operation two special bridge mode modules are needed. The standard EFN-DP protection boards are not suitable for bridge mode operation!

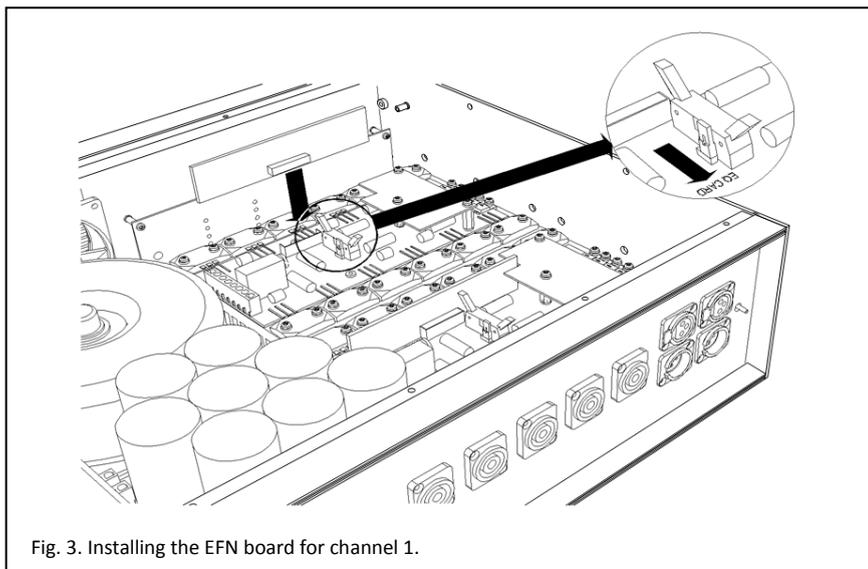


Fig. 3. Installing the EFN board for channel 1.

Attach the grounding wire to its connector attached to the underside of the lid and screw the lid back on. When removing the EFN module(s), move jumper J1 back to its original position, otherwise the signal path to the power amplifier is interrupted and the amplifier will not work!



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