

Replacing Amplifier Module on ENA2100-AC



DANGER!

Hazardous Voltages can be present in the amplifier even after being disconnected. Only qualified and experienced technical staff should perform this replacement.

This document describes the replacement procedure for the amplifier module on the ENA2100-AC amplifier.

Item Number	Item Name	Description
102 3922 100	EAM-100	Exigo 2x100 Watt Amplifier Module for ENA2100-AC

1 Tools Required

The tools required to perform this replacement include:

- ESD Safe working environment
- T10 Torx bit
- #1 Phillips Screwdriver
- Flat Blade Terminal Screwdriver

2 Accessing the Old Amplifier Module

Before you start the procedure:

1. Switch off and disconnect the amplifier from the power mains



Mains Voltage is present on the input to the Power Supply unit and cannot be avoided as the replacement of the Class-D Amplifier Module requires the isolation and removal of the Power Supply module.

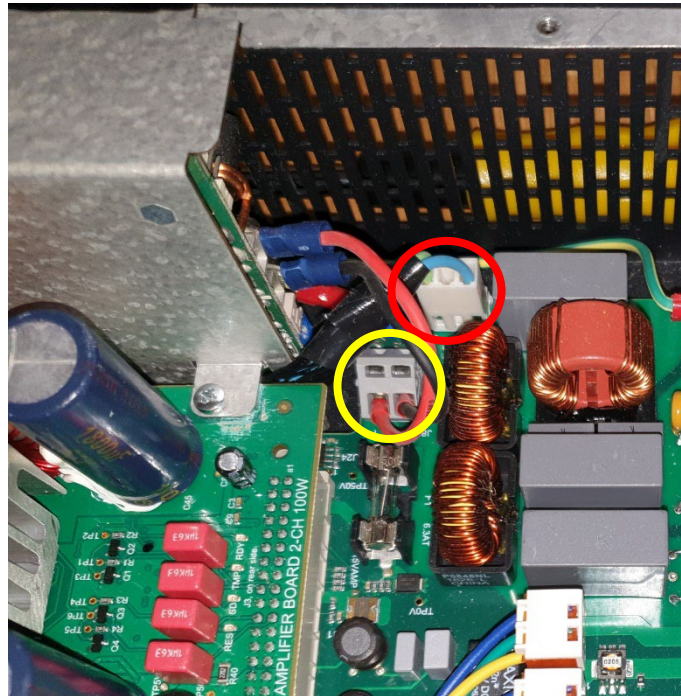


Large storage capacitors are present on the Power Supply module and the Class-D Amplifier Module. These capacitors can hold charge for hours after disconnection from the mains. Where possible, the amplifier should be left in an unplugged state for a minimum of 1 Hour to dissipate the stored charge.

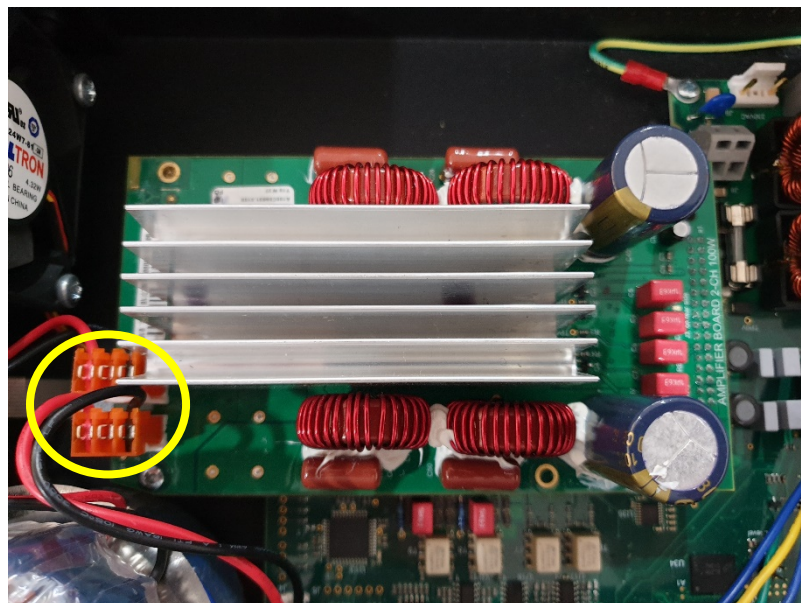
2. Remove the top cover by unscrewing the 11 Torx screws using a T10 bit, noting the cover orientation.

3 Removing the Old Amplifier Module

1. Disconnect the Power Supply Module from the Main Board by unplugging the mains connection terminal block J9 (circled in red), and by removing the leads captured by the Friction Lock Connector J8 (circled in yellow) using the flat blade terminal screwdriver.



2. Unscrew the 2 screws securing the Power Supply module through the Amplifier module. Pull the top of the Power Supply module into the amplifier cavity to release it from the flange and lift out the power supply module.
3. Disconnect the Transformer Input cables from the Amplifier Module terminal blocks J1 and J2 (circled in yellow).



4. Unscrew the remaining 2 screws securing the Amplifier Module and remove it by lifting the entire module upwards away from the main board.

4 Installing the New Amplifier Module



DO NOT replugin the OLD amplifier module back into the main board as this will **DAMAGE** the main board. The removed old module may have charged capacitors.

1. Press the Amplifier Module down to plug it into the Euroconnector at the bottom of the cabinet and secure with 2 screws
2. Connect the Transformer Input cables to the Amplifier Module with J1 connected to the lower transformer and J2 connected to the upper transformer
3. Install the Power Supply module by lowering it into the cavity and pushing the top cover of the power supply module under the flange of the amplifier housing. Care should be taken to ensure the Mains Input lead is not trapped underneath the Power Supply module.
4. Secure the Power Supply module with the 2 remaining screws
5. Connect the Power Supply Output cables to the Friction Lock Connector J8 with the Red lead connected to Pin 1 (50V)
6. Connect the Power Supply Input cable to Terminal Block J9
7. Replace the top cover and secure it with the Torx screws.