

Replacing Power Supply 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 Power Supply Module EPMA300AC on the ENA2100-AC amplifier.

Item Number	Item Name	Description
102 3910 300	EPMA300AC	Exigo Power Supply Module for ENA2100-AC, EA1400, EA1600

1 Tools Required

The replacement should be performed in an ESD Safe working environment with the following tools:

- T10 Torx bit
- #1 Phillips Screwdriver
- Flat Blade Terminal Screwdriver

2 Accessing the Old Power Supply Module

Before you start the procedure:

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

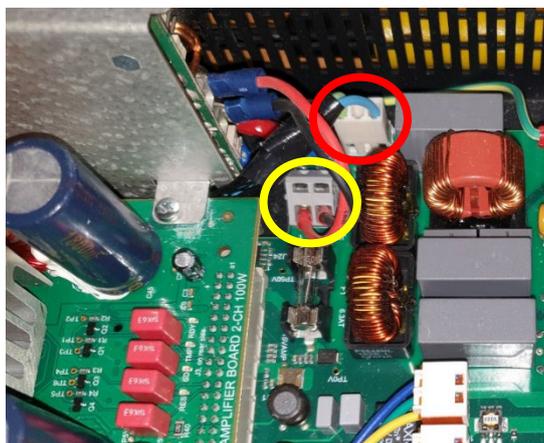


Large storage capacitors are present on the Power Supply Module. These capacitors can hold charge for hours after disconnection from the mains. Where possible, the amplifier should be left in an unplugged state for a minimum of 1 Hour to dissipate the stored charge.

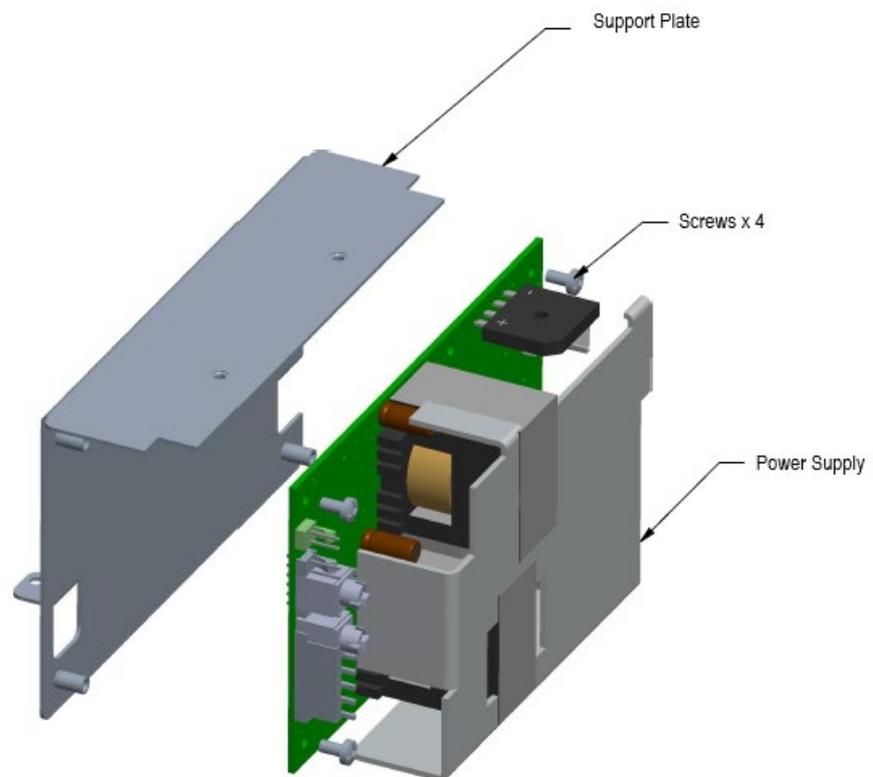
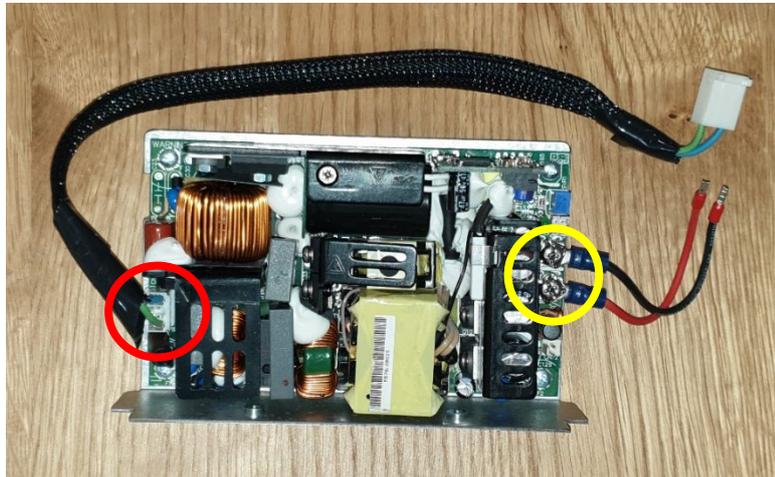
2. Remove the top cover by unscrewing the 11 Torx screws using a T10 bit, noting the cover orientation.

3 Removing the Old Power Supply 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 using the flat blade terminal screwdriver (circled in yellow).



2. Unscrew the 2 screws securing the Power Supply Module to 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. Remove the Input Cable from the Power Supply Module by unplugging the cable (circled in red) and unscrewing the Output Cables (circled in yellow) using the Phillips screwdriver.
4. Separate the support plate from the Power Supply Module by unscrewing the 4 screws in each corner of the module.



5. Discard the old Power Supply Module

4 Preparing the New Power Supply Module

1. Mount the new Power Supply Module to the support plate using the 4 screws, making sure that the orientation is correct.
2. Connect the Input Cable and Output Cables to the new Power Supply Module, making sure that the orientation is correct.

5 Installing the New Power Supply Module

1. Lower the Power Supply Module into the cavity and push 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.
2. Secure the Power Supply Module with the 2 screws
3. Connect the Power Supply Output cables to the Friction Lock Connector J8 with the Red lead connected to Pin 1 (50V)
4. Connect the Power Supply Input cable to Terminal Block J9
5. Replace the top cover and secure it with the Torx screws.