



XF-1 TRANSFORMER KIT

Installation Instructions

The purpose of this sheet is to guide you through the installation of your newly purchased transformer kit. This kit outfits one channel per amplifier. If you are using the Bridged Mono configuration for any MX or EX Series amplifier, install a single kit into Channel 1 only. All other input configurations (stereo, parallel, or bridged mono in a CX series amplifier) require two kits to modify both channels. If you are installing only one transformer, be careful to modify only the channel in which you are installing the transformer.

- **STEP 1** Check that you have the following parts in your kit:

QTY.	DESCRIPTION
1 pc.	Model XF-1 Input Transformer with Valox® Insulator
1 pc.	220 pF 5% 50V Polypropylene Capacitor
1 pc.	49.9 kOhm 1% Metal Film Resistor

Note: **DO NOT** remove the white plastic insulator from the bottom of the transformer. This prevents the traces on the PC board from shorting against the metal cap of the transformer.

- **STEP 2** Assemble the required tools:
Soldering iron, 63/37 or 60/40 solder, solder wick, #2 Phillips screwdriver, and fine-tipped wire cutters.

- **STEP 3** Unscrew the two (four on older models) screws on the bottom input panel at the rear of your amplifier. Gently pull the panel out from the amplifier. In doing this, you will notice a multi-pin ribbon cable connected to the PC board. Disengage the locking wings, pulling the ribbon connector head away from the socket on the PC board (do not pull on the ribbon cable). This frees the input board from the amplifier.

- **STEP 4** Using fine-tipped wire cutters, carefully clip out the following parts:

Channel 1	Channel 2
C301 (470 pF ceramic disc capacitor)	C401 (470 pF ceramic disc capacitor)
C302 (470 pF ceramic disc capacitor)	C402 (470 pF ceramic disc capacitor)
W301 ("Transformer Jumper" wire)	W401 ("Transformer Jumper" wire)
W302 ("Transformer Jumper" wire)	W401 ("Transformer Jumper" wire)

- **STEP 5** Using the soldering iron and solder wick, remove the solder from the following holes:

Channel 1	Channel 2
T301 8 outer transformer holes	T401 8 outer transformer holes
C303 capacitor holes	C403 capacitor holes
R301 resistor holes	R401 resistor holes

- **STEP 6** Install the following parts, solder, and trim the excess leads:

Channel 1	Channel 2
C303 220 pF capacitor	C403 220 pF capacitor
R301 49.9 kOhm resistor	R401 49.9 kOhm resistor

- **STEP 7** Observe the black dot on the top of the transformer. This dot indicates Pin 1, and corresponds to the pin markings on the outer ring footprint of the PC board (component side); these pin markings are 1,4,5 & 8. Install the transformer so that the dot aligns with Pin 1 on the PC board and solder all eight pins in place. T301 is for Channel 1. T401 is Channel 2.

- **STEP 8** Reconnect the multi-pin ribbon cable to the input board connector. Ensure that the connector wings are fully closed. Put the panel back into the chassis and fasten the screws snugly.