THE COIL AUDIO COMPANY

LAWRENCE KANSAS LA GRANGE TEXAS

CA-70 PS2 version

INSTALLATION GUIDE

&

OPERATING MANUAL

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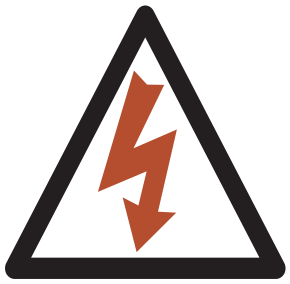


WARNING!
HIGH VOLTAGES PRESENT!

FOR YOUR PERSONAL SAFETY, PLEASE READ THIS OPERATING MANUAL THOROUGHLY BEFORE USING THIS PIECE OF EQUIPMENT.

Please note the following:

->Never swap transformers on a CA-70 module while the Power Supply is on.

->This unit must be installed in such a manner that operator access to the Main AC plug is maintained and accessible. To reduce risk of electric shock, it is essential that the unit is powered off and/or disconnected from Main AC power before any installation or maintenance procedures begin.

->This equipment is not to be mounted in an area prone to excessive vibration (like a drum riser or sub cabinet) or high SPL sound levels. Doing so could introduce unwanted artifacts.

->This equipment is not intended for use in hazardous environments. It must be used and stored in studio conditions, such that the ambient relative humidity does not exceed 80%, nor is the temperature to be allowed to drop to a level which would cause excessive moisture buildup in the unit.

->Please insure that adequate ventilation is provided and that the chassis ventilation slots are not obstructed.

->In the event that this unit has been dropped or has suffered any impact damage, an electrical safety test must be carried out by a qualified technician or shipped back to Coil Audio LLC for service before reconnection to the Main AC power. Please do not attempt to service the unit yourself.

INSPECT PACKAGE CONTENTS

All CA-70 PS2 racks are carefully packed for shipment to insure a safe arrival. However, if there is any damage, contact Coil Audio immediately and keep any and all shipping materials for use during any possible damage claims with the shipper.

Carefully unpack the contents of the box and inspect each item for any damage/defects. Make sure the following items are present:

(1) PS2 rack with ordered modules

(1) 2 -6 input/output transformers depending on order

(1) CA-70 PS2 version Installation Guide and User Manual

(1) 3 prong IEC power cable

INSTALLING/CHANGING TRANSFORMERS

Before powering on your PS2 Rack, make sure both input and output transformers are firmly seated into the module body. Plugging or unplugging transformers while the unit is powered on is not recommended.

Each octal plug has a guide pin to ensure proper orientation, refer to the adjacent pictures for placement. The lower octal socket is for the Mic input transformer (such as CT-110 or CT-100HN). The upper octal is for the output transformer (CT-41).

Before installing your PS-2 - please take into consideration the following information:

The RACK requires a minimum of 5.24 inches of vertical space (3U) and 15 inches of depth. Please leave an additional 1.75 or (1U) space above the RACK to allow optimal passive airflow.

The PS-2 can be installed in a sealed equipment rack or wall provided there is adequate ventilation. A small fan may be required to provide sufficient airflow.

To insure the structural integrity and functionality of the unit, use all four rack screw slots provided on the rack ears of each unit to mount them securely into an equipment rack.

CONNECTING THE PS-2 TO YOUR STUDIO

The XLR connectors are wired to the AES standard as follows:

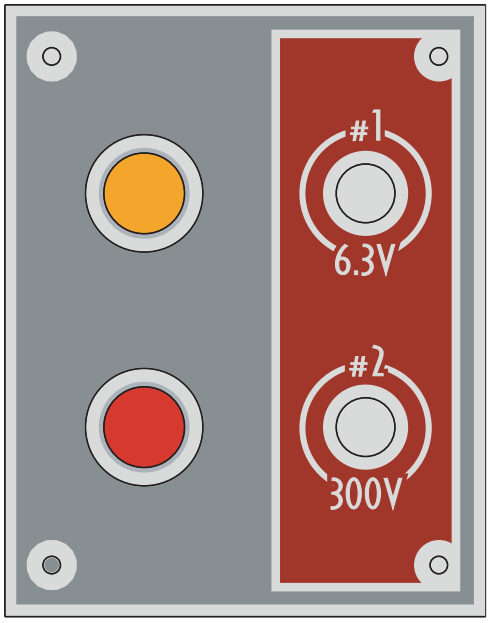
XLR INPUT (female)
PIN 1 = GROUND
PIN 2 = (+) or high/hot
PIN 3 = (-) or cold/low

XLR OUTPUT (male)
PIN 1 = GROUND
PIN 2 = (+) or high/hot
PIN 3 = (-) or cold/low

Finally, plug the IEC power cord into the PSU and then into a properly grounded 3-prong wall-outlet (120VAC) or power conditioner.

STEP 5: POWERING UP

The PS-2 powers up the MODULES in a way similar to the "standby" featured in many tube instrument amplifiers. The filament voltage is engaged first to warm the tubes before engaging the high voltage DC that powers the circuit. This prolongs tube life, and keeps wear and tear to a minimum.



Follow these steps to power cycle:

1. Turn On the #1 6.3V: Engage this switch first by flipping it upright and the corresponding jewel light will illuminate - indicating that the 6.3V filament power is being sent to the modules. Wait for 30-60 seconds before proceeding to the next step.

2. Turn On the #2 300V: Engage this switch last by flipping it upright. The corresponding jewel light will illuminate indicating that the High Voltage DC is activated and that any modules installed are ON and ready for use.

3. To Power Down the Unit, reverse Steps 1 and 2.