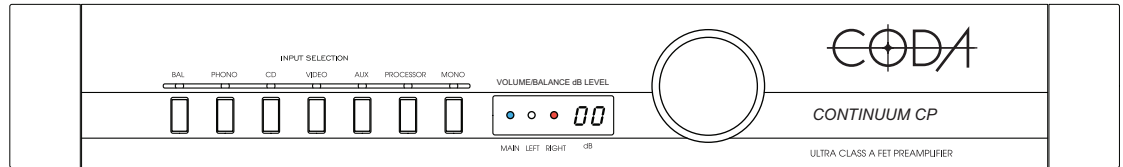






TECHNOLOGIES INC.

Preamplifier CP
OPERATION MANUAL



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CAUTION		
	WARNING	
CAUTION: TO PREVENT ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		
	THIS SYMBOL IS TO ALERT YOU OF THE PRESENCE OF UNINSULATED DANGEROUS VOLTAGE WITHIN THE UNIT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK.	
	THIS SYMBOL IS INTENDED TO ALERT YOU OF THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE UNIT.	

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE. TO AVOID ELECTRICAL SHOCK, DO NOT OPEN THE UNIT. REFER SERVICING TO QUALIFIED PERSONNEL.

- CAUTION**
- Never install or remove the power cord from the chassis unless it has been disconnected from the AC power source first.
 - Never pull on the power cord when removing it from an AC power source. Grasp it by the plug.
 - Do not leave the power cord connected to an AC power source unless it is connected to the unit.
 - It is recommend that during extended periods of non-use that the units power cord be unplugged from its AC power source.
 - Route the AC power cord so that it will not be damaged or walked on.

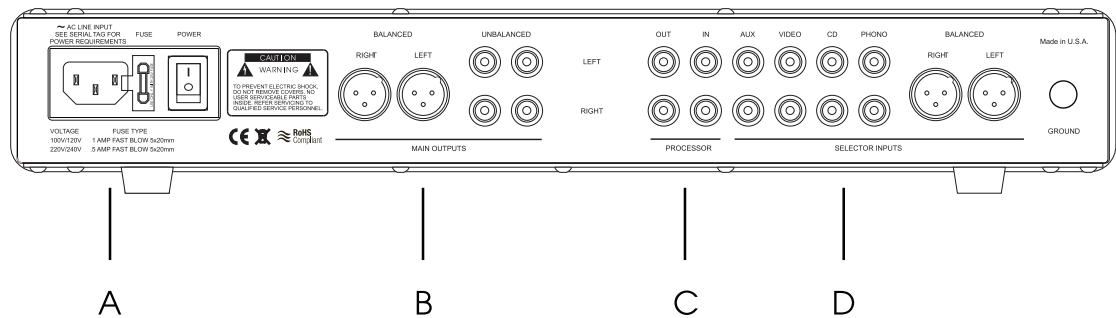
Thank you for purchasing the PRE AMPLIFIER CP.

This preamplifier is a precision device, designed in an effort to provide the listener with unmatched sound quality through superb design and construction.

Although its operation is fairly simple, in order to operate your preamplifier properly and to realize all of the capabilities of the CP we recommend that you read this entire manual carefully.

Note: Many amplifiers produce a local magnetic field that can be picked up by the sensitive circuitry of a preamplifier. Try to provide at least a foot of space between your amplifier and your CP preamplifier.

The diagram below illustrates the rear connections of the CP.



A: The AC receptacle accepts any standard three-prong IEC line cord. Power input can be adjusted for any country, but is set internally at the factory. Contact Coda or your local Coda dealer if the voltage must be changed. Fuse specifications are listed below the receptacle, and the fuse can be changed by unplugging the line cord, pulling out the fuse drawer and clipping in a new fuse.

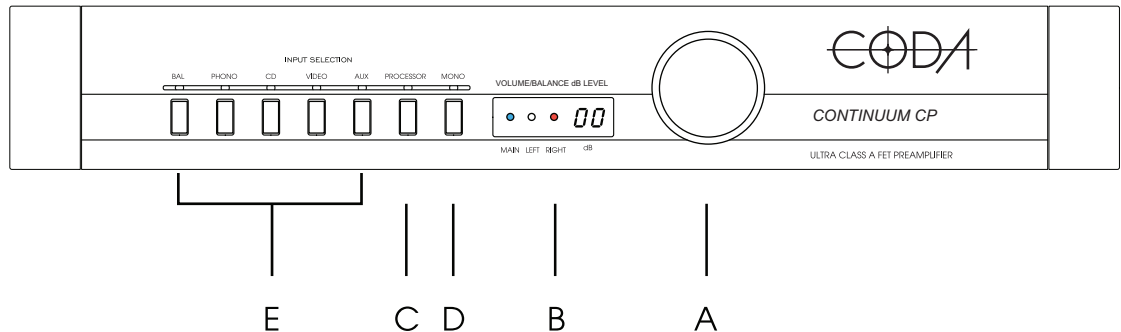
B: Signal output is through two balanced XLR connectors and four unbalanced RCA connectors. The XLR pinout is identical to the input receptacles.

C: The Processor loop connectors permit the connection of an external audio device such as a surround sound processor or equalizer. Connect the output jacks to the input of the processor, and the output of the processor to the processor input jacks of the preamplifier.

D: Signal input is through two balanced XLR connectors and eight unbalanced RCA connectors. The XLR receptacle has ground on pin 1, positive on pin 2 and negative on pin 3.

Note: Many amplifiers produce a local magnetic field that can be picked up by the sensitive circuitry of a preamplifier. Try to provide at least a foot of space between your amplifier and your CP preamplifier.

The diagram below illustrates the front panel controls of the CP.



A: The rotary controller adjusts the currently selected volume level. Press the knob to switch between the volume setting for left, right or both channels, indicated by the lights underneath the digit display.

B: The digit display shows the currently selected volume setting. The lights underneath the digit indicate which value is selected. The readout is in dB of attenuation, therefore a higher number indicates a lower output level. If the output is muted the display will flash repeatedly.

C: The processor input mode passes the current audio input through an external processor unit before it is output. See the previous page for instructions on connecting a processor device.

D: The mono input mode combines both input channels into a single monaural signal and outputs the combined signal on both output channels.

E: The four input selectors choose the current active audio input. Individual gain can be set for each input. Press and hold the button for the appropriate input. The display will switch to the gain setting for that input, 00 by default. Rotate the volume knob to select up to 18 dB of additional gain, then press the input button again to store the value.

REMOTE OPERATION

The CP can be operated by remote control. The MX-450 Learning Remote is included with the amplifier. For instructions on using the MX-450 itself see the on screen manual included in the remote.



Caution: The CP contains dangerous high voltages during operation, and except for the loading settings has no user serviceable parts inside. Except when adjusting the loading you should never open the preamplifier. Before opening the CP ensure that the AC line cord is completely disconnected.

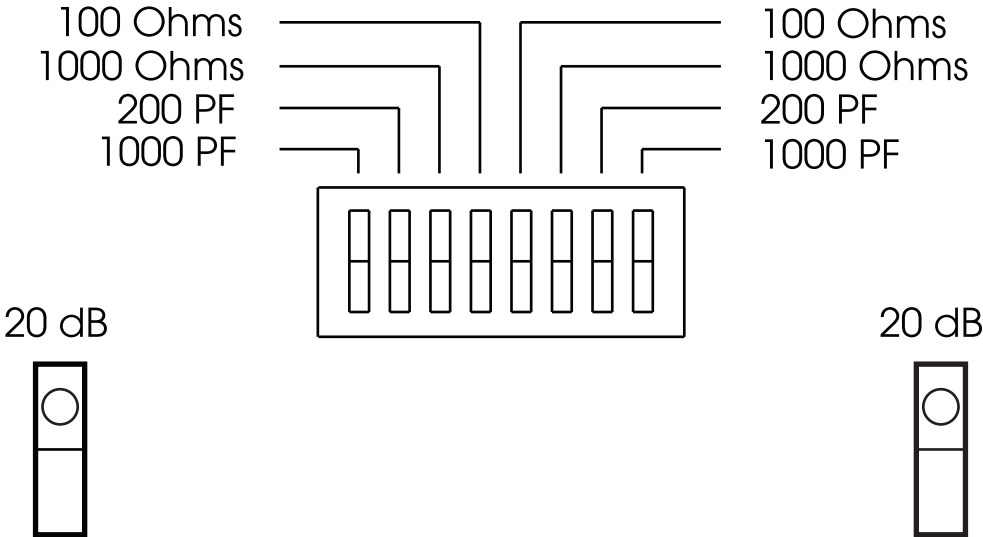
The CPs phono input stage has adjustable loading parameters. The loading switches are a red DIP switch block located on the printed circuit board inside the preamplifier near the balanced input jacks.

To open the CP, use a hex wrench to remove the bolts retaining the top cover. Check the size of your wrench before beginning. An undersized wrench will strip the heads of the fasteners. Be sure to set the cover top-side up when removed to avoid scratching the finish.

The DIP block adjusts both loading capacitance and resistance. The switches are set in stereo pairs, e.g. 1 & 8 to add 1000 PF to both channels, 2 & 7 to add 200 PF, etc. The components are switched in parallel with the built-in values of 47k Ohms and 50pF. The final capacitance is the sum of 20pF and the two capacitor settings. The final resistance is as follows:

$$1/R_{total} = (1/47000) + (1/R1) + (1/R2)$$

The two slide switches to either side of the DIP block add 20 dB of gain to each channel. By default they are disabled.



If you have any questions about adjusting the CP you should contact Coda Technologies at the address and phone number on the rear of this manual.

PREAMPLIFIER

Frequency Response:	5Hz to -3dB at 200kHz
Distortion:	<.02 from 10Hz to 40kHz, 6V peak into 600 Ohms or higher, shunted by 1000pF or less
Gain:	12dB, variable to 30dB
Maximum Output:	10V peak
Noise:	Less than 100dBA referenced to 1V
Input Impedance:	20k Ohms unbalanced 20k Ohms balanced
Output Impedance:	50 Ohms non-reactive unbalanced 100 Ohms non-reactive balanced
Crosstalk:	90db at 20kHz

PHONO STAGE

Gain:	40dB at 1kHz, 60db with extra gain switch
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DIMENSIONS

Height:	2.65" Faceplate, 3.0" Overall
Width:	17.0" Faceplate, 17.0" Overall
Depth:	12.0" Overall
Weight:	15 lbs.
Power requirement:	20 Watts

The interior of the unit requires no special care. If it becomes necessary to clean the exterior, a simple dusting may be all that is required. If a cleaner is necessary, any dilute commercial ammonia based product will be appropriate. NEVER use any abrasive rags, cleaners or chemical solvents on Coda products.

When handling the unit, take care not to mar the aluminum. Aluminum is a medium hardness metal and can be scratched by the harder tool steels.

Avoid exposing the unit to direct sunlight, and keep it away from sources of intense heat.

Do not throw away the carton or associated packing material. They are ideal if you need to pack the unit for moving and in the unlikely event that servicing is needed, they will be necessary for safe shipment.

Be sure to provide adequate insurance when shipping.

I. Warranty - Any failure of the Coda product, hereafter known as the product or original product, to operate or to meet specifications, applicable at time of manufacture, due to a manufacturing defect or component failure, will be corrected by Coda Technologies without charge for parts or labor, for a period of ten years from date of original purchase. Coda Technologies will provide for surface transportation to and from the factory for a period of one year from date of original purchase.

II. Procedure - If the product should require service under warranty contact Coda Technologies at the location on the back cover of this manual for shipping instructions. Products purchased outside of the United States will be covered by the warranty conditions extended by the importing distributor which may differ from those given above.

III. Exclusion of Coverage - Coda Technologies is not obligated to service the product in certain conditions, as according to the following subsections.

a. The product has been damaged through:

- i. operation not in accordance with the instructions in this manual
- ii. abuse, tampering, modification or accident
- iii. serial number defacement

B. The product has been transferred to a third party. In this case the warranty is valid for 5 years from date of manufacture as determined from the serial number

c. The product has been transported outside of the United States of America.

In these conditions any service will be made at Coda Technologies sole option.

IV. Total Loss and Replacement - If the product is submitted for service due to a severe malfunction which has caused damage sufficient enough to make a repair attempt infeasible, the product will be replaced with another unit of equal or superior specifications. Coda Technologies product line is frequently updated and changed, and the specific model and version of the original product may be discontinued at any time without notice. In this case no guarantees are made that the replacement unit will be visually similar to the original product.

V. Subjective Differences - No guarantee is made that the product will perform to any specifications that cannot be measured and confirmed with precision audio analysis equipment. Coda Technologies is only obligated to make repairs which will bring the product into compliance with the specifications stated in this manual.

VI. Unnecessary Service - In all conditions, if the product is submitted for service and found to be operated without fault and within specifications, shipping charges will be billed to the customer.

This warranty gives you specific legal rights. You may have other rights which vary from state to state.

Disclaimer - Coda Technologies cannot be held responsible for any damage caused by their products, including but not limited to:

- a. Damage to speakers caused by failure of a Coda Technologies product to mute or disable itself as expected or described in its manual.
- b. Damage caused by connecting a load to a Coda Technologies product having an improper impedance as described in the products manual.
- c. Damage caused by defects in design, construction or component quality.

Fill in this registration sheet and fax or mail it to Coda Technologies to ensure you are in our warranty system. This will facilitate warranty service should it become necessary.

It is recommended that you retain a copy of this form for your own records. Coda Technologies' address and fax number are located on the back of this manual.

MODEL DESIGNATION: _____

SERIAL NUMBER: _____

DATE OF PURCHASE: _____

PLACE OF PURCHASE

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____

OWNER INFORMATION

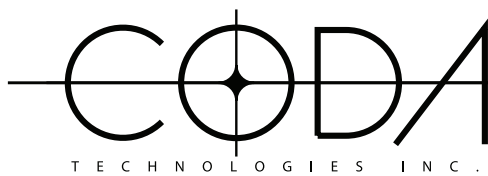
Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____

NOTES: _____



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