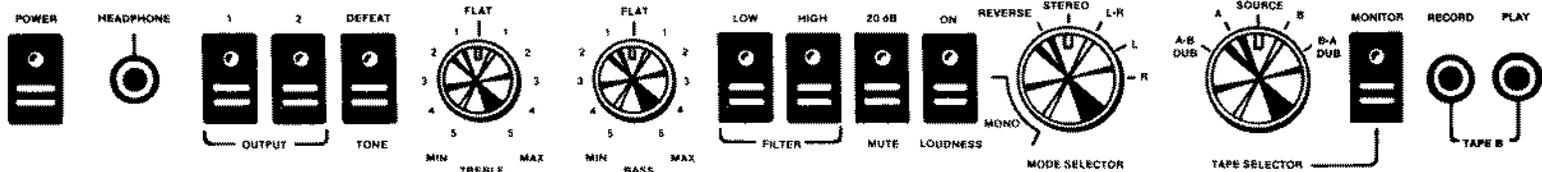
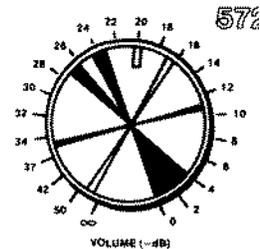
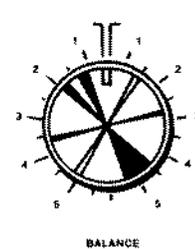
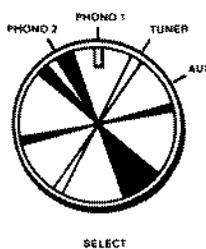
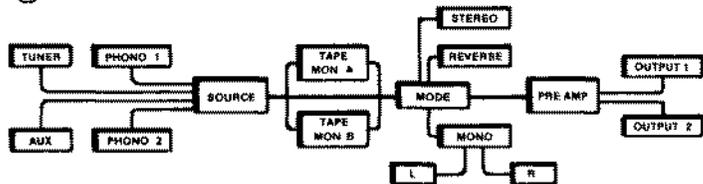


OWNER'S MANUAL

22AH572-44 PRE-AMPLIFIER

PHILIPS HIGH FIDELITY LABORATORIES, LTD.

PHILIPS HIGH FIDELITY LABORATORIES PRE-AMPLIFIER



PHILIPS

INTRODUCTION

The Philips model 572 is an ultra low distortion two channel pre-amplifier capable of highly accurate audio reproduction. This high quality instrument incorporates state of the art design technology and components. Its wide frequency response of 10 Hz to 40 KHz (Aux and Tuner) and low total harmonic distortion of 0.01% make the Philips 572 one of the finest audio pre-amplifiers on the market today, capable of giving you many years of outstanding performance.

Front panel controls are a combination of step detent controls and touch switches with LED (light emitting diode) indicators. The detent-type volume, bass and treble controls provide for extremely accurate and simple adjustment. The touch switches provide smooth silent trouble-free operation without the "pops" and "clicks" of mechanical switches. The LED indicator located above each set of touch contacts tells you at a glance which switches have been activated and the illuminated function read-outs are especially helpful when selecting a particular operational mode or function.

Philips' unique tape through circuit provides you with an extensive tape and source combination. It has two full sets of tape input and output connectors on the back panel and one pair on the front panel. This system permits you to use two separate tape decks to record simultaneously or record on one and play on another or vice versa. It has the capability to listen to the source or to monitor either of the tape decks without disturbing the recording.

Located on the back panel are six stereo inputs and four stereo outputs. These provide for the connection of two record players, a tuner and two tape decks for recording, playback and tape-to-tape duplicating in either direction. Also on the rear panel, PHONO 1 and PHONO 2 input level controls are adjustable to give 1.5 mV to 18 mV input sensitivity. These controls enable you to adjust the volume level of two turntables for proper balance with other functions and compensate for differences in cartridge levels and channel balance.

The Model and Serial Number of your Philips High Fidelity Laboratories pre-amplifier will be found on the rear or bottom of the instrument. Please record this Model and Serial Number in the space provided below.

Model Number _____ Serial Number _____

WARNING — TO PREVENT DAMAGE WHICH MAY RESULT IN FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR EXCESSIVE MOISTURE.

INSTALLATION

Location

Before operating the pre-amplifier, select its location in the listening room. Do not locate the unit in direct sunlight, near radiators or other sources of heat. Locations having high humidity or excessive dust should be avoided if at all possible. If you plan to install the pre-amplifier in any type of cabinet or enclosure, be sure to allow for adequate ventilation. To insure best performance, take the time to prepare a location that is sturdy enough to support the pre-amplifier and its associated components.

Additional Equipment

Any additional audio equipment that you may wish to purchase should be of the same high quality as this pre-amplifier. The Philips 572 is compatible with other products from Philips High Fidelity Laboratories as well as most other high quality component equipment.

SYSTEM CONNECTION

Power Amplifier or MFB Speaker System

Two sets of stereo outputs are provided on the back panel of the pre-amplifier. These may be connected to stereo power amplifiers and/or directly to Philips' MFB (Motional Feedback) loudspeaker systems. If only one stereo power amplifier or MFB stereo system is used, connect to the OUTPUT 1 terminals using the audio cable supplied with the pre-amplifier. The upper terminal is the left channel and the lower terminal is the right channel.

Record Player

Two record players with magnetic cartridges may be connected to the Phono 1 and Phono 2 inputs. The Phono Level controls on the back of the pre-amplifier have been pre-set at the factory for a level of 2 mV (Phono 1) and 10 mV (Phono 2). However, these levels may be adjusted for any setting between 1.5 mV and 18 mV. If the record players have separate ground wires, these should be connected to the ground terminals on the back of the pre-amplifier. **NOTE: If either set of phono inputs is not used, they must be grounded to prevent excessive hum in the amplifier. Four grounding plugs have been provided for this purpose. Simply insert the plugs into the unused phono terminals.**

Tuner

An AM/FM Stereo tuner can be connected to the TUNER input terminals. The upper terminal is the left channel and the lower one is the right channel. An additional tuner may also be connected to the AUX inputs.

Tape Deck

Two tape decks can be connected to this pre-amplifier for recording, playback and tape-to-tape duplicating in either direction.

Recording Connection

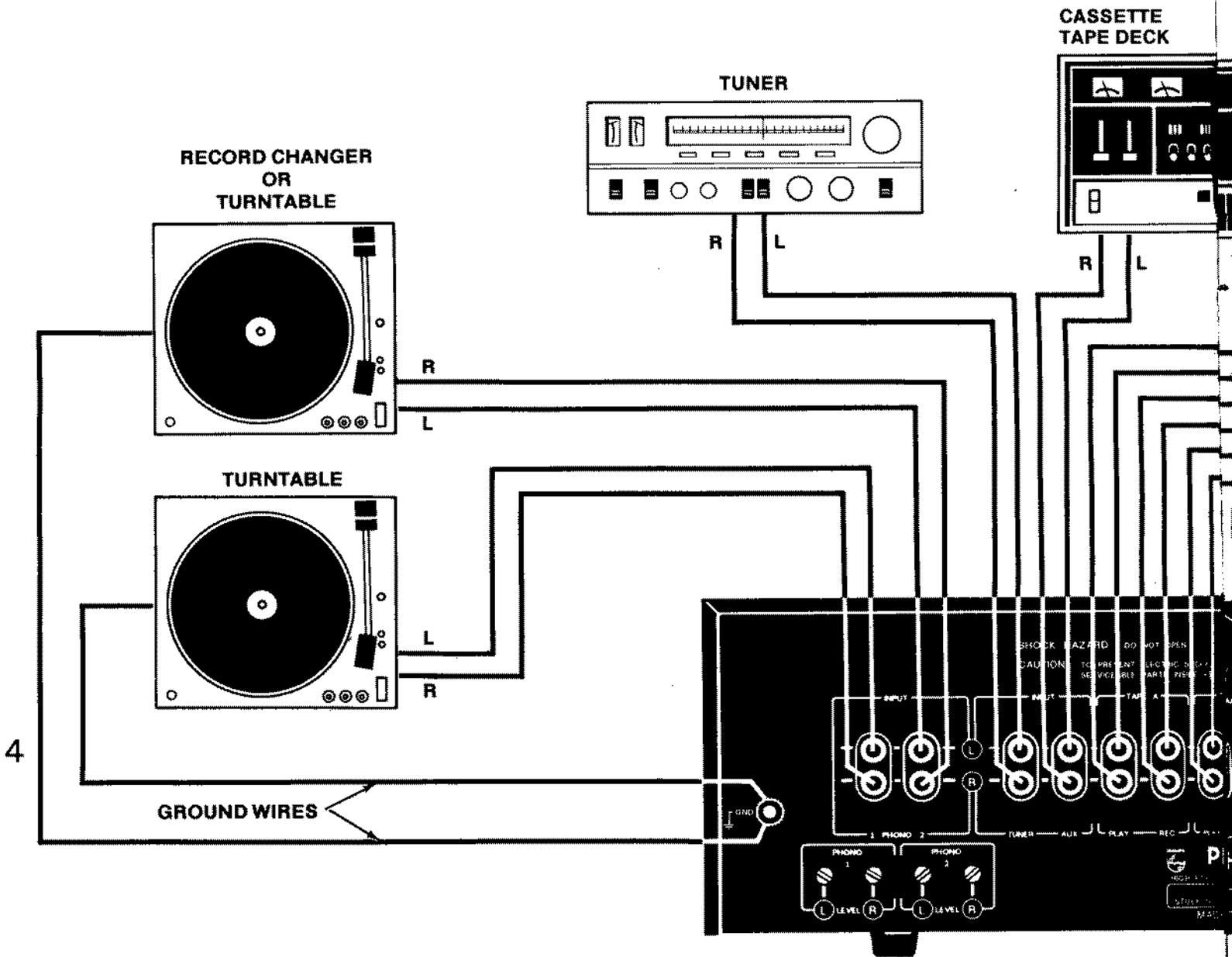
Connect the Line inputs of the tape deck to the TAPE A REC terminals. A second tape deck may be connected to the TAPE B REC terminals if so desired. The upper terminal is the left channel and the lower one is the right channel.

Playback and Monitor Connections

Connect the Line or Monitor outputs of the first tape deck to the TAPE A PLAY terminals. The second tape deck is connected to the TAPE B PLAY terminals in the same manner.

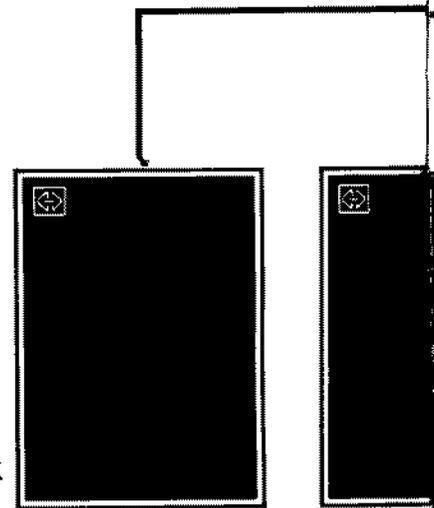
Aux Inputs

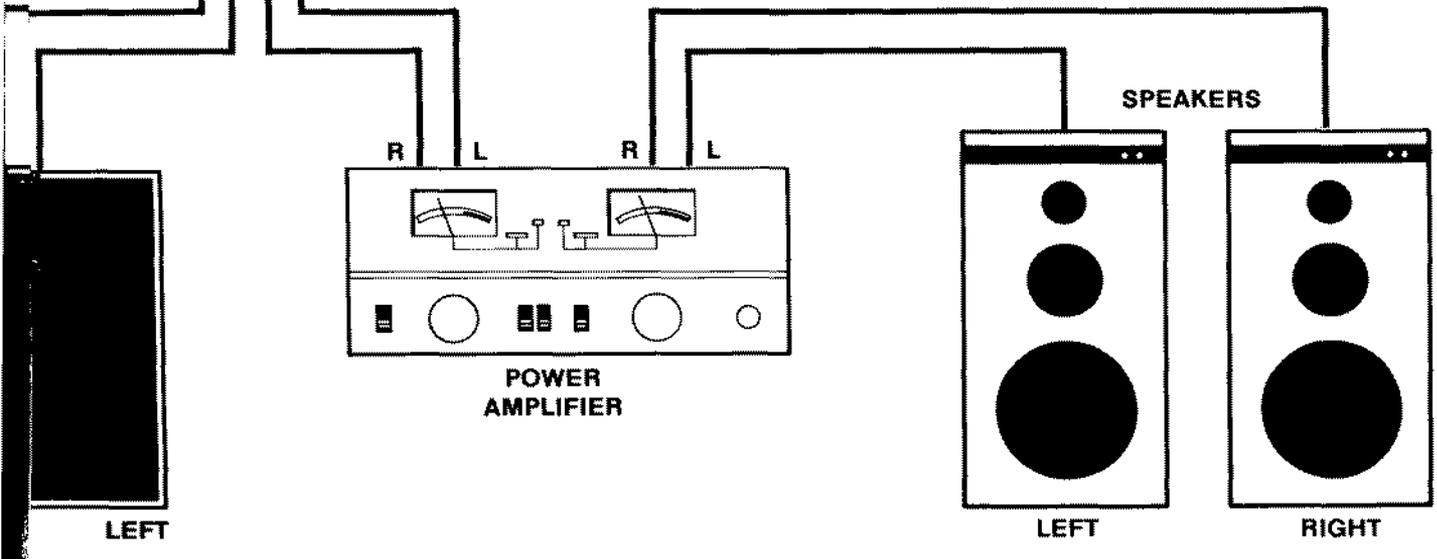
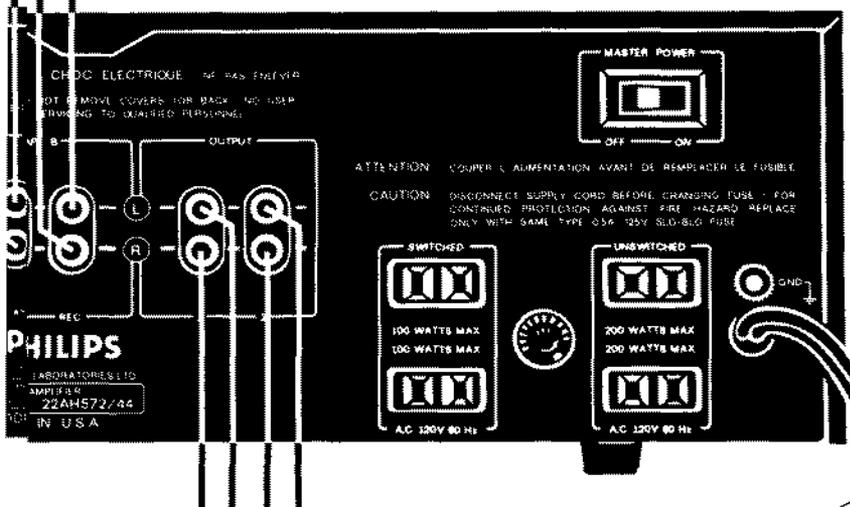
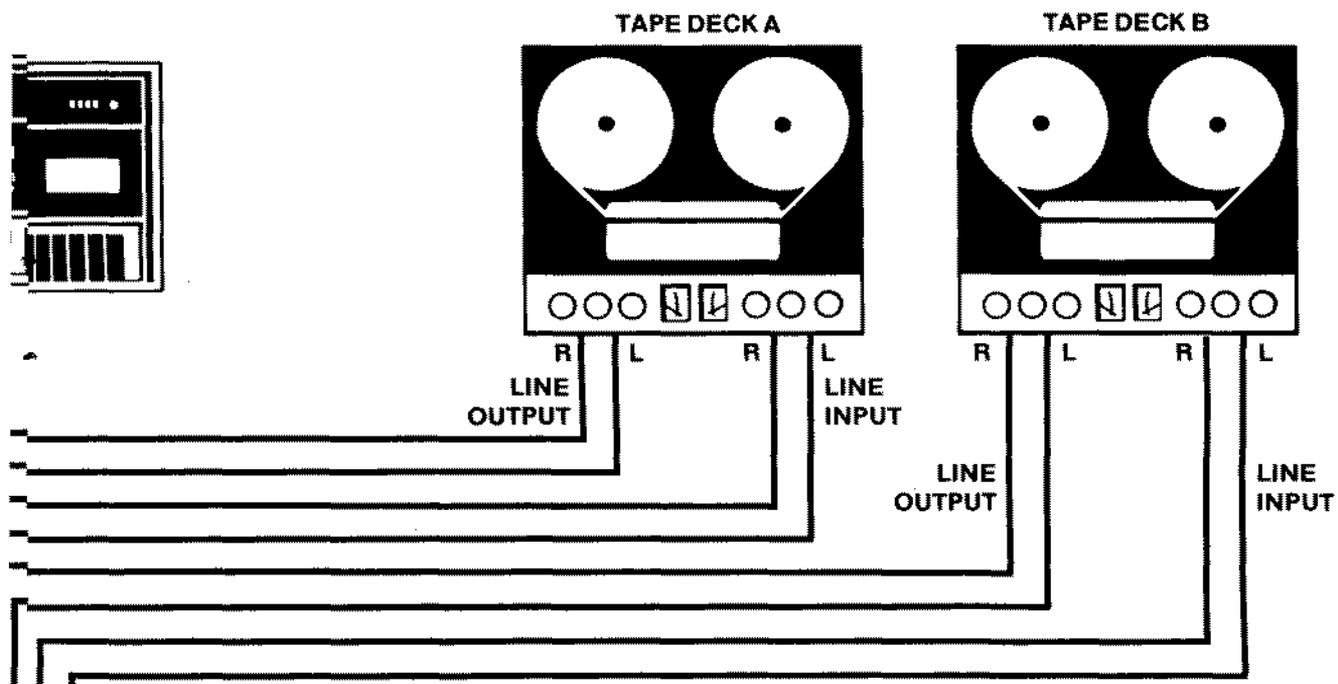
The Aux inputs can be used for an additional source such as a stereo cassette tape deck, sound track from a television or another tuner. The upper terminal is the left channel and the lower one is the right channel.

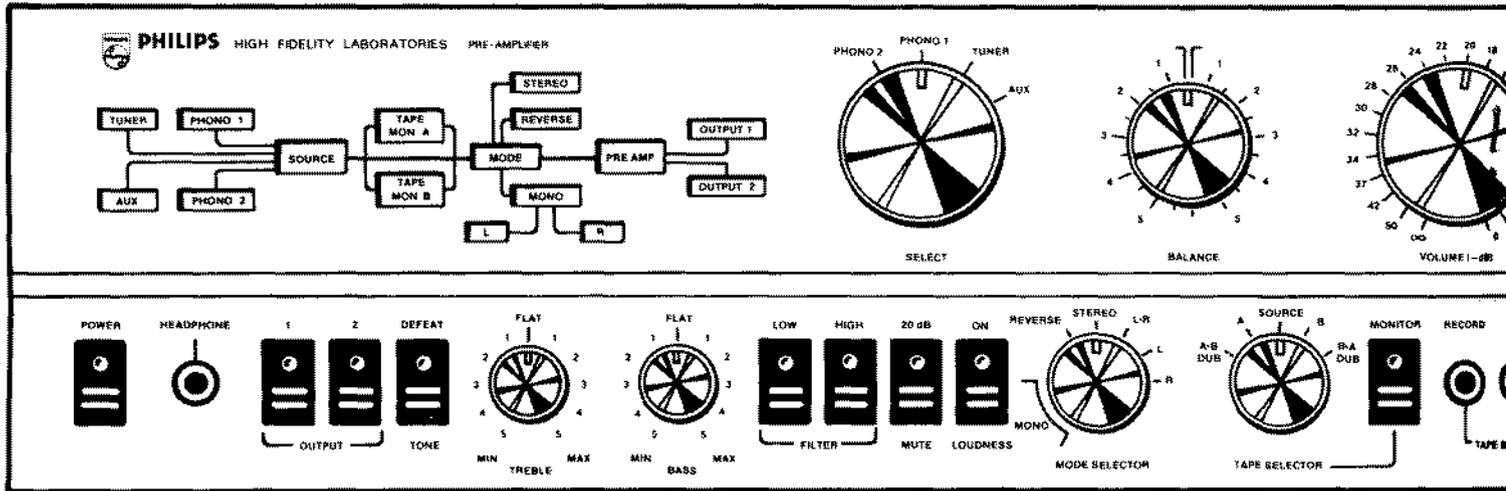


TYPICAL SYSTEM CONNECTION

MOTIONAL FEEDBACK SPEAKER SYSTEMS







CONTROLS

Master Power

The Master Power switch, located on the back panel of the pre-amplifier, controls the power for all of the circuits except the unswitched AC receptacles. This switch must be in the On position for the pre-amplifier to operate. If the pre-amplifier will not be used for an extended period of time, such as when you are on vacation, place the Master Power switch in the Off position.

Power

After placing the Master Power switch in the On position, the Power touch switch on the front panel is used to turn the pre-amplifier On and Off. The LED indicator located above the touch contacts will be illuminated when the power is On.

Headphone

A pair of stereo headphones may be connected to the pre-amplifier for private listening. The Headphone jack will accept any standard $\frac{1}{4}$ inch stereo plug.

Output 1,2

The two Output touch switches allow you to select either set of output terminals or both sets simultaneously.

Tone Defeat

The Tone Defeat switch, when activated, defeats the Treble and Bass controls action and restores flat frequency response.

Bass and Treble

Rotating these controls in a clockwise direction will increase the bass and treble response and rotating them counter-clockwise will decrease the response. Placing each control at its center position provides flat response.

Low Filter

The Low Filter is used to eliminate low frequency noise such as turntable rumble or excessive hum.

High Filter

Noise from scratchy records, tape and FM hiss can be considerably reduced by using the High Filter.

Mute

When the Mute switch is activated, the volume level is reduced by 20 db. This enables you to reduce the sound level without turning the Volume control and also extends the range of the Volume control down to -70 db.

Loudness

Touch the Loudness switch to provide bass and treble boosting at low volume. The boosting circuit compensates for the tendency of the human ear to be less responsive to low and high frequencies at low volume levels.

Mode Selector

The Mode Selector is used to select the stereophonic and monophonic listening modes as follow:

STEREO — Normal stereo reproduction.

REVERSE — Stereo reproduction with right and left channels reversed.

L + R - Monophonic reproduction with the right and left channels mixed.

L — Monophonic reproduction of the left channel information only.

R — Monophonic reproduction of the right channel information only.

Tape Selector

The Tape Selector is used to select the various functions for tape recording, playback, monitor and tape duplicating as follows:

A → B DUB Used to duplicate tape from tape deck A to tape deck B. In this position you can duplicate a tape while listening to a different program source such as the tuner or record player. If a three-head tape deck is being used for recording (tape deck B), you can monitor the recording in progress by activating the Monitor switch. If you wish to listen to the tape that is being duplicated (tape deck A), you must place the Tape Selector in the A position and activate the Monitor switch.

A — Used for playback and tape monitor of a tape deck connected to the Tape A terminals. If you have connected a three-head tape deck to the Tape A terminals, you can monitor a recording in progress by placing the Tape Selector in this position and activating the Monitor switch.

SOURCE — Used for all other modes of operation such as record player, tuner and auxiliary. This position is used when recording a program from the record player, tuner or auxiliary inputs. You can also use the Source position for tape monitor and playback of the tape deck that is connected to the Tape A terminals simply by activating the Monitor switch.

B — Used for playback and tape monitor of a tape deck connected to the TAPE B terminals. If you have connected a three-head tape deck to the Tape B terminals, you can monitor a recording in progress by placing the Tape Selector in the B position and activating the Monitor switch.

B → A DUB Used to duplicate a tape from tape deck B to tape deck A. In this position you can play a tape on tape deck B and record it on tape deck A while you are listening to a different program source such as the tuner or record player. If a three-head tape deck is being used for recording (tape deck A), you can monitor the recording in progress by activating the Monitor switch. If you wish to listen to the tape that is being duplicated (tape deck B), you must place the Tape Selector in the B position and activate the Monitor switch.



Monitor

The Monitor switch is used in conjunction with the Tape Selector to obtain the various tape monitor and playback modes. See the explanation under TAPE SELECTOR.

Tape B Jacks

A tape deck can be connected to the pre-amplifier by means of the two front panel jacks which will accept a standard ¼ inch stereo plug. When a tape deck is connected to the front play jack, the Tape B play terminals on the back of the pre-amplifier are disabled.

Volume

The Volume varies the volume of both channels equally and simultaneously from -50 db to 0 db. Clockwise rotation will increase the volume.

Balance

The Balance control is used for balancing the volume of the right and left channels. At its center position, the volume of both channels is equal. Clockwise rotation decreases the sound level of the left channel and counter-clockwise rotation decreases the sound level of the right channel.

Select

By rotating the Select switch, the various program sources can be selected:

AUX — Operation of a program source connect to the Aux inputs.

TUNER — Radio reception with a tuner connected to the Tuner inputs.

PHONO 1 — Operation of a turntable connected to the Phono 1 inputs.

PHONO 2 — Operation of a turntable connected to the Phono 2 inputs.

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OPERATION

Before operating the pre-amplifier, check to make sure that all connections have been made and that power is supplied to all of the equipment. Turn the Volume control fully counter-clockwise and turn on the Master Power switch. Adjust the control as follows:

1. Turn on the pre-amplifier by touching the Power switch.
2. Activate the appropriate Output switch.
3. Turn the tone controls to the Flat position and make sure the Tone Defeat is off.
4. Place the Mode Selector in the Stereo position and the Tape Selector in the Source position. Make sure the Source Monitor switch is off.
5. Turn the Balance control to its center position.
6. Loudness, Mute and both Filter switches should be off.

Record Player

1. Turn the Select control to the appropriate Phono position (Phono 1 or Phono 2).
2. Place a record on the turntable and operate it according to its instructions.
3. Adjust the Volume, Bass, Treble and other controls for the desired listening level and tone quality.

It is quite possible that the volume level of a turntable connected to this pre-amplifier will not be the same as the volume level of the other components. This condition can be corrected by properly adjusting the Phono Level controls. Proceed as follows:

1. Play a monophonic record on one of the turntables.
2. Select either a monophonic FM broadcast or an AM radio station on the tuner.

3. Place the mode switch in the Stereo position.
4. Switch the Select control alternately between the Tuner position and the appropriate Phono position.
5. Adjust the appropriate pair of Phono Level controls until the same volume level is obtained from both the tuner and the turntable. Clockwise rotation increases the phono level.
6. Be sure that the right and left channels also are equal in volume.

If a monophonic record is not available, a stereo record may be used.

Tuner

1. Place the Select control in the Tuner position.
2. Operate the tuner according to the instructions supplied with it.
3. Adjust the Volume, Bass, Treble and other controls as desired.

Auxiliary Source

An auxiliary program source such as a cassette tape player or another tuner may be connected to the Aux inputs.

1. Turn the Select control to the Aux position.
2. Operate the auxiliary program source according to its instructions.
3. Adjust the Volume, Bass, Treble and other controls as desired.

Tape Recording

The signal being played over the pre-amplifier is present at all three tape record outputs for recording on tape. While you are recording, the Volume, Bass, Treble, Balance and Filters can be adjusted as you desire since they have no effect on the recording; the signal is recorded as it comes from the program. Choose the program source with the Select control.

Monitoring a Recording

If the tape deck you are using is a three-head type, you can monitor a recording in progress by placing the Tape Select switch in the appropriate A or B position and activating the Monitor switch. A recording being made with the tape deck connect to a Tape A terminals can also be monitored by leaving the Tape Select switch in the Source position and activating the Monitor switch. Therefore, if you have only one tape deck, it should be connected to the Tape A terminals.

Tape Playback

To playback on a tape deck connected to the Tape A terminals, place the Tape Select switch in the A or the Source position and activate the Monitor switch. Playback on a tape deck connected to the Tape B terminals can be accomplished by placing the Tape Select switch in the B position and activating the Monitor switch. Adjust the Volume, Bass, Treble and other controls as desired. **Note: During tape playback, the Select control is inoperable.**

Duplicating a Tape

The tape duplicating features of the pre-amplifier allow you to make copies of previously recorded tapes or edit a recording to remove unwanted commercials and announcements. Proceed as follows:

1. Connect two tape decks to the pre-amplifier if you have not already done so.
2. If you are playing back the original tape on tape deck A and recording it on tape deck B, place the Tape Select switch in the A→B Dub position. If the original tape is played back on tape deck B and recorded on tape deck A, place the Tape Select switch in the B→A Dub position.
3. The recording can be monitored at any time by activating the Monitor switch.

