

KRELL INDUSTRIES, INC.

PAM-7 PREAMPLIFIER

OWNER'S MANUAL

January 1, 1988

KRELL INDUSTRIES, INC.

20 Higgins Drive Milford CT 06460 203.874.3139

Telex 643924 FAX 203.878.8373

## THE PAM-7 PREAMPLIFIER

### A. INTRODUCTION

Thank you for purchasing the PAM-7 preamplifier. The PAM-7 is the latest evolution of KRELLs' entry level preamplifier technology. Many of its design concepts are similar to our more expensive preamplifiers and are wholly unique to KRELL. Two important design features are dual-mono operation (two separate power supplies are included) and the complete absence of any capacitors in the signal path. The PAM-7 retains other features for which KRELL preamplifiers have become recognized: internally switchable loading for moving coil cartridges, a 3 pole adjustable phase filter for the CD input, and input capacity rarely found on high-end preamplifiers.

Please read this manual thoroughly before using the PAM-7. Its' installation and operation are easy to understand and it should provide many years of trouble-free performance. Please be sure to return the enclosed warranty registration card.

### B. UNPACKING

While unpacking the PAM-7 inspect the unit for shipping damage. If any damage is evident contact your dealer or the factory immediately. If the unit is in proper condition proceed with installation. In addition to the preamplifier and two power supplies you will find a small allen driver for removing the top cover for phono loading and CD input adjustments. The phono and CD sections should be set-up before installation is completed. These operations are detailed below.

### C. PHONO SECTION SET-UP

1. Moving Coil: The PAM-7 is shipped with the phono section set for moving coil cartridges (S1, positions C2 & C4) and a load of 100 ohms. The load can be changed with a set of internal switches. To access these the top cover must be removed with the supplied allen driver; see the drawing at the end of the instructions for the location of switches S2 & S3. Change the phono loading for your cartridge according to the directions of the cartridge manufacturer or your dealer.

The various load possibilities are detailed below:

all switches in the open position	=	47,000 ohms
all switches open except 8 on	=	1,000 ohms
all switches open except 7 on	=	800 ohms
all switches open except 6 on	=	470 ohms
all switches open except 5 on	=	250 ohms
all switches open except 4 on	=	100 ohms
all switches open except 3 on	=	47 ohms
all switches open except 2 on	=	25 ohms
all switches open except 1 on	=	10 ohms
all switches on	=	5 ohms

2. Moving Magnet Cartridges: To set-up the phono section for moving magnet cartridges change the gain switch, S1, to positions C1 and C3. In this configuration the loading is set to 47,000 ohms and cannot be adjusted.

#### D. CD SECTION SET-UP

The Compact Disc input of the PAM-7 is routed through an adjustable three pole phase correcting filter, a feature unique to KRELL preamplifiers. The switches to adjust to the filter are S4 & S5.

Settings for various CD players are listed below:

Adcom GCD-300	1, 3, 4, 7 open, 2, 5, 6, 8 on
Kinergetics CDC-20A	3, 4, 5, 8 open, 1, 2, 6, 7 on
Kyocera 901	1, 2 open, 3, 4, 5, 6, 7, 8 on
Kyocera, other models	1, 3, 5, 6, 7 open, 2, 4, 8 on
Magnavox 650	4, 5, 8 open, 1, 2, 3, 6, 7 on
McIntosh	3, 4, 5, 6, 7, 8 open, 1, 2 on
Meridian MCD & Pro	1, 6, 7 open, 2, 3, 4, 5, 8 on
Mission 707	2, 8 open, 1, 3, 4, 5, 6, 7 on
NAD	1, 3, 4, 5, 6, 7 open, 2, 8 on
Nakamichi OMS-5 & 7	1, 3, 4, 6, 7 open, 2, 5, 8 on
PS Audio CD-1	3, 6, 7, 8 open, 1, 2, 4, 5 on
Pioneer SCD 909	2, 3 open, 1, 4, 5, 6, 7, 8 on
Sony 101 & 707 ES	1, 2, 3 open, 4, 5, 6, 7, 8 on
Sony CD 302	3, 4, 5, 6, 8 open, 1, 2, 7 on
Stax Quattro	3, 4, 8 open, 1, 2, 5, 6, 7 on

If you do not find your player listed contact the factory or your dealer for further information. In general, if you have a Sony based system adjust to 1, 2, 3, 8 open, 4, 5, 6, 7 on; if you have a Phillips based system adjust to 3, 4, 5, 6, 7 open, 1, 2, 8 on. If you have a 4-times oversampling/16 bit machine not listed use the settings for the Magnavox 650 shown above.

#### E. INSTALLATION INFORMATION

##### 1. Notes on Installation

a. Be sure that power amplifier(s) are turned off while making any connections

b. The PAM-7 "Select" switch should be at the 12 o'clock position and the volume control fully counterclockwise while making connections.

c. Our custom RCA connectors are made to very exacting standards. Connectors of lesser quality may damage them or cause poor connections. Please check with your dealer or the factory if you have any questions.

## 2. Installation

The PAM-7 is designed to be set-up with the power supplies installed at some distance from the preamplifier chassis. This is to eliminate the possibility of hum being induced into the phono section. The motors in CD players or tape recorders can also induce hum into the phono section and, in most cases, should be placed at least a foot away from the PAM-7.

Before proceeding with the final installation please read and complete the set-up of the phono section loading and CD input filter. These operations involve removal of the top cover and are much easier to accomplish before the unit is fully in place. Instructions and settings are listed above.

After completing the phono section and CD filter set-up, and determining the best placement for the preamplifier, you can proceed with connection of the two power supplies and source components. Follow the markings on the rear panel for proper input/output assignments. Either supply can be connected to either supply input.

## F. OPERATION

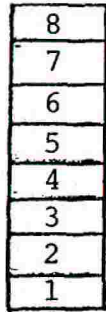
1. The PAM-7 is designed to be left on at all times. If the system is to be left unattended for a period of time, such as during a vacation, the supplies can be disconnected from the mains. When reconnecting the supplies be sure the amplifier(s) are off.
2. Use the "Select" switch to choose the source for listening and/or recording. When the system is not in use set the switch to the 12 o'clock position; this disconnects the switch output from the line section of the preamplifier.
3. Use the switch with "tape monitor"/"select" positions to choose between the output of the "Select" switch or the return from a tape recorder for monitoring.
4. Use the "Balance" control to adjust the level between the two channels as necessary. This balance control is really a balance attenuator. When you turn the control towards the right the right channel is reduced in level in four single decibel steps; a fifth position, fully clockwise, turns the right channel off. The left channel operates in an identical fashion when turning the control towards the left.
5. Use the Volume control to adjust the listening level. It should always be fully counterclockwise when the system is not in use or when changing records or sources.

## G. WARRANTY

The PAM-7 has a limited warranty of five years from the date of purchase. Please return the completed warranty card immediately after successful installation and operation of the unit.

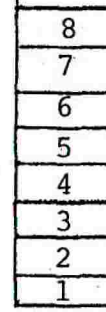
ADDITIONAL C.D. SETTINGS

P.S. Audio CDI	3-6-7-8 open 1-2-4-5 on
Nakamishi OMS-7	1-3-4-6-7 open 2-5-8 on
Magnavox 650	4-5-8 open 1-2-3-6-7 on
Stax Q	3-4-8 open 1-2-5-6-7 on
Mission 707	2-8 open 1-3-4-5-6-7 on
Yamaha	2-8 open 1-3-4-5-6-7 on
Adcom GCD-300	1-3-4-7 open 2-5-6-8 on
Kinergetics CDC 20A	3-4-5-8 open 1-2-6-7 on
McIntoch	3-4-5-6-7-8 open 1-2 on
Onkyo DX 330	4-5-6-7 open 1-2-3-8 on
Sony CDP-620ES	4-5-6-7-8 open 1-2-3 on
Denon DCD-1700	3-4-5-6-8 open 1-2-7 on



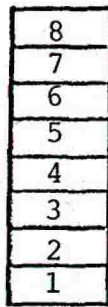
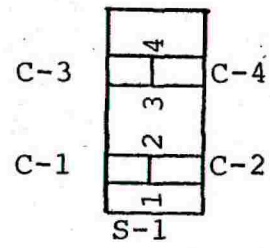
S-3

OPEN



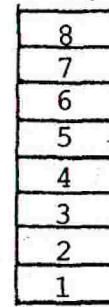
S-5

OPEN



S-2

OPEN



S-4

OPEN

PREAMP FRONT