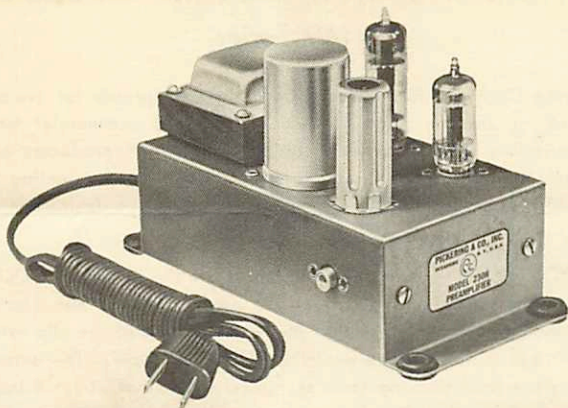


## PICKERING MODEL 230H PREAMPLIFIER



### PICKERING MODEL 230H PREAMPLIFIER

The PICKERING model 230H PREAMPLIFIER...engineered to properly equalize the bass response of records and transcriptions and to provide the necessary gain for high quality magnetic pickups... represents the most advanced design ever achieved in phonograph preamplifiers...it is unique and superior in its accuracy of equalization...its intermodulation and harmonic distortion is extremely low, better than most professional equipment...it will operate with any high quality amplifier having a high impedance input...is self-powered, operates from the 115 volt AC line and is installed by simply plugging in.

Due to an improved method of stylus mounting, it is virtually impossible to determine whether the cartridge has a diamond or sapphire stylus except through microscopic examination. The back of the cartridge is stamped with the proper designation.

### CUSTOMER SERVICE DEPARTMENT RETURN MAILING

Return postage charges for cartridges are listed below. Coin (no stamps please) may be enclosed in the cartridge box to cover the return postage you request.

	Single Cartridges	Two Cartridges
Third Class Mail with Commercial Insurance . . . . .	\$.08	\$.15
First Class Mail with Commercial Insurance . . . . .	.14	.23
Airmail with Commercial Insurance . . . . .	.23	.46

Special Delivery for First Class Mail \$.20 additional

Special Delivery for Parcel Post \$.35 additional

Registration of First Class Mail \$.35 additional

All rates apply only to Continental U. S.

## INSTRUCTIONS

PICKERING & CO., INC.  
Oceanside, N. Y.

## PICKERING CARTRIDGE REPRODUCER

### 140 Series

The 140 Series Pickering Cartridge Reproducers are designed expressly for use on fine line, MICRO-GROOVE type recordings and must not be used on standard commercial records. For standard recordings and transcriptions the 120 Series Pickering Cartridge Reproducers are required. The Pickering Cartridge Reproducer will fit standard arms with tapped mounting holes on  $\frac{1}{2}$ " centers. It mounts by means of the exclusive KEYSTONE CLIP, an ingenious device for adapting the unit to all types of arms.

**PROCEDURE FOR MOUNTING** — In the small envelope are the KEYSTONE CLIP and four mounting screws. Mount the clip by means of the correct size screws for your arm (both 3-48 and 4-40 are provided). The clip should be mounted so that the larger portion of the clip extends toward the rear of the arm. The cartridge is now slipped over the KEYSTONE CLIP. The correct position fore and aft is that which gives the least tracking error at a record radius of about 3 inches. It is important that the cartridge fit snugly on the clip. If any looseness is apparent, the raised portions of the slide can be bent slightly by applying pressure with both thumbs. If the cartridge has been slid over the clip more than a dozen times or so, it will usually be necessary to tighten the slide.

**ELECTRICAL CHARACTERISTICS:** The generated voltage from a 140S Pickering Cartridge Reproducer is flat on a velocity basis throughout the entire audio spectrum. Electrically, their inductive characteristics are such that a load resistance of less than 20,000 ohms will introduce high frequency attenuation. A value of 3600 ohms will approximate the roll-off required for most microgroove recordings. A load resistance of 25,000 to 50,000 ohms is recommended for most applications where the cartridge output is fed into a vacuum tube circuit and when a flat response is desired. The output is approximately .05 volts from a high level record. The Pickering Model 132E Record Compensator is the recommended unit to provide proper equalization for the various record makes. Recommended tracking pressure for the Pickering Series 140 Cartridges is from 6 to 8 grams.

**STYLUS** — The Model S-140S cartridge is equipped with a .001" sapphire stylus, the Model D-140S with a .001" diamond stylus. Any S-140S cartridge can be converted to a D-140S cartridge at a net price of \$22.50. Every stylus is inspected immediately prior to packaging.

**SERVICE AND GUARANTEE** — Every Pickering Cartridge is unconditionally guaranteed, except the stylus point, provided that the cartridge has not been opened, nor subjected to extraordinary abuse. For service or replacement under guarantee, return cartridge directly to Pickering and Co., Inc., at Oceanside, N. Y. Repaired or reconditioned cartridges are reshipped from the laboratory within 48 hours after their receipt.

A new .001" sapphire stylus can be installed for a net charge of \$5.00, a .001" diamond stylus for \$22.50 net.

Contrary to popular belief, a sapphire stylus has very limited life. Therefore, optimum reproduction quality, with record wear held to a minimum, can be guaranteed with the Model S-140S only if the sapphire stylus is replaced approximately every two hundred record sides. Diamond styli, however, can be counted upon to have at least ten times the life of sapphires.