

YOUR NEW CARTRIDGE

The Pickering XLZ/7500 MKII Cartridge was designed to be used in stereo systems which have high gain, low impedance MC inputs or use external head amps with input impedance of 100 ohms or higher. It is a moving magnet pickup system with low impedance coils allowing the use of long cables between the turntable and the preamp. The frequency response extends to beyond 50 KHz. The low frequency tracking is superb along with excellent high frequency tracing ability. THE STEREOHEDRON II™ STYLUS is shaped to provide an enlarged record groove contact area, while providing the ability to accurately trace the high frequency, high level modulations of today's records. The Stereohedron II™ stylus provides superior performance with low stylus and record wear for your records.

SOME IMPORTANT FEATURES OF THIS CARTRIDGE

DUSTAMATIC™ BRUSH — A patented feature of Pickering Cartridges is the inclusion of a brush assembly that helps keep the record grooves clean. It does not in any way detract from the overall performance since the brush assembly is independently suspended from the cartridge. The brush is located off-center to allow it to clean the record grooves ahead of the stylus.

V-GUARD™ PROTECTION — The stylus assembly on your cartridge has molded into it a precisely shaped opening which we call a "V-Guard™", into which the stylus recedes in the event of excessive downward or sideways pressure. But nothing can make up for carelessness... always treat your records and cartridge with the respect any precision instrument deserves.

REPLACEABLE STYLUS — The patented stylus assembly is removable. Simply grasp between the tips of the thumb and forefinger. Pull gently to remove the stylus assembly. Although the stylus assembly is sturdily constructed, please handle it carefully when removing and replacing it.

RECORD CARE — To insure proper cleaning of your records, the use of Pickering Record Cleaner Kit with RC₄ PLUS™ is recommended.

STYLUS TIP CARE — Dust will inevitably accumulate on the stylus tip even under the cleanest conditions. It can be removed by a gentle brushing forward with a camel's hair, or similar brush, such as supplied in the Pickering Stylus Cleaner Kit, SC4™.

Damaged or worn styli can do irreparable harm to your record collection. Check your stylus after every 250 hours of record playing time, and replace it when worn to protect your records. Always insist upon a genuine Pickering replacement (imprinted with the Pickering Logo)—an imitation will significantly reduce performance and increase record wear.

SPECIFICATIONS

STYLUS DESCRIPTION:

Model Stereohedron II®
Contact radii: .003"
Skimming radii: .0002"

TRACKING FORCE:

¼ to 1½ grams

FREQUENCY RESPONSE:

10 Hz to 20 KHz +

NOMINAL OUTPUT:

5.22 mV

CHANNEL BALANCE:

within 1 dB at 1KHz

CHANNEL SEPARATION:

35 dB @ 1 kHz

INDUCTANCE EACH CHANNEL:

1.8 mH

D.C. RESISTANCE EACH CHANNEL:

3.0 ohms

STEREO LOAD RESISTANCE:

100 ohms or greater

STEREO LOAD CAPACITANCE:

up to 1000 pF

REPLACEMENT STYLUS:

D7500 MKII

Note: 1. Recommended for optimum performance.

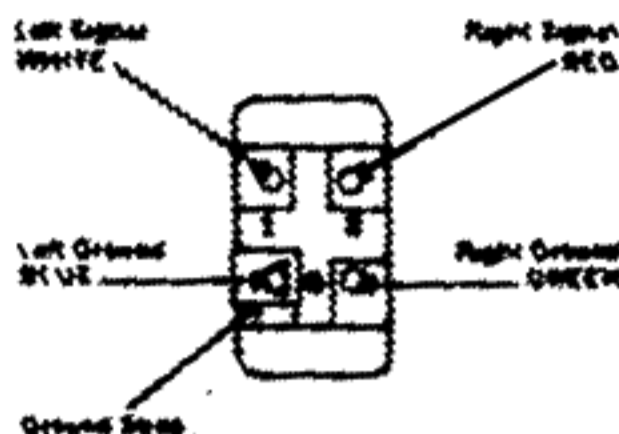
Follow these 6 steps to setup your cartridge

STEP 1. (CONNECTING THE WIRES)

Connect the wires in the tone arm head to the cartridge pins following the stereo connection diagram below. Note: Do Not solder the wires to the cartridge pins.

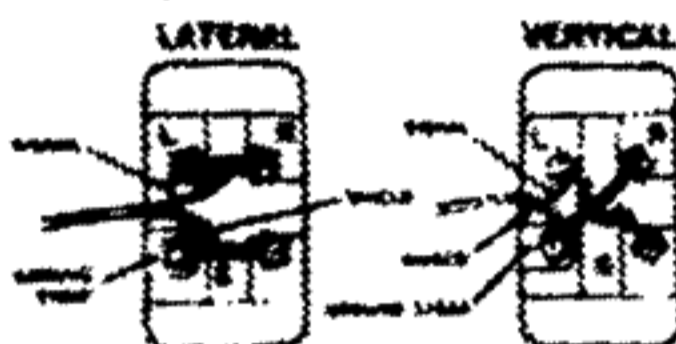
STEREO CONNECTIONS (Normal Use)

Your turntable arm or head has four lead wires with terminal clips for normal stereo connections. Check the manufacturer's instruction for matching these leads with the cartridge terminal pins. The U.S.A. standard color code for stereo pickups leads is shown.



MONOPHONIC CONNECTIONS (Special Use)

For optimum results in playing monophonic records, the cartridge should be wired as indicated. Generally, monophonic LP and 78 RPM records are laterally cut; some old transcription LP's and many antique records are vertically cut.



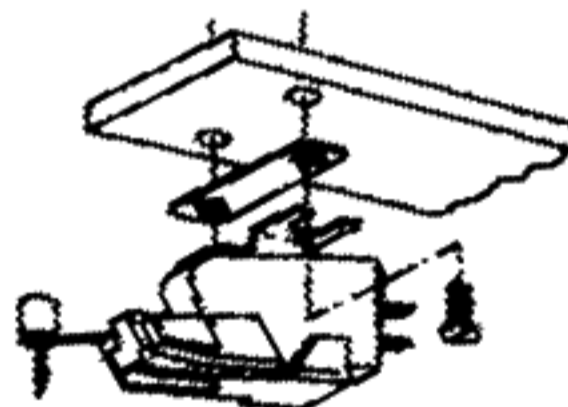
STEP 2. (MOUNTING THE CARTRIDGE)

Select from the hardware kit the two screws and the plastic screw-holder you will need to mount the cartridge. Check the record player manufacturer's instructions to help you in your selection. The kit with this cartridge contains the following:

- | | |
|--|---|
| a. 2 long black screws
(#2-56 x 3/8") | c. 2 small chrome screws
(#2-56 x 1/4") |
| b. 2 short brass screws
(#2-56 x 2/16") | d. Two different plastic screw
holders—BLUE and BLACK (Pair) |

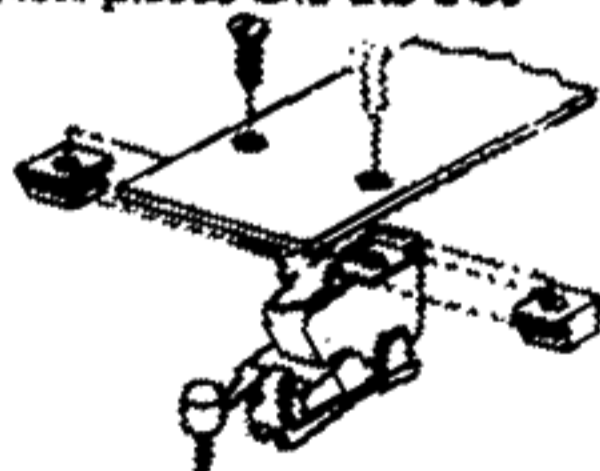
If the tone arm requires the cartridge to be mounted by screws from underneath, screwing into threaded holes in the tone arm then use the BLUE plastic piece. You will need to use the 3-48 screws (brass).

Choose the BLUE piece in tone arm heads requiring no spacing between cartridge bracket and mounting surface. Simply insert the required screws into holes in the plastic with the cartridge bracket between screw heads and plastic. This allows easy holding and positioning of screws while tightening.



If your tone arm requires cartridge to be mounted by screws from the top, use the two (2) BLACK pieces and the 2-56 chrome or black screws:

Simply slip the pieces onto the wings of the cartridge and insert the screws from above the tone arm head. The screws will form their own threads in the plastic so that no nuts are necessary.



When tightening the screws, never tighten one all the way with the other still loose. Always alternate a few turns at a time as the cartridge begins to tighten into position. Before the cartridge is finally tightened, check the turntable manufacturer's instructions to insure the cartridge is in the correct position.

STEP 3. (REMOVE STYLUS GUARD)

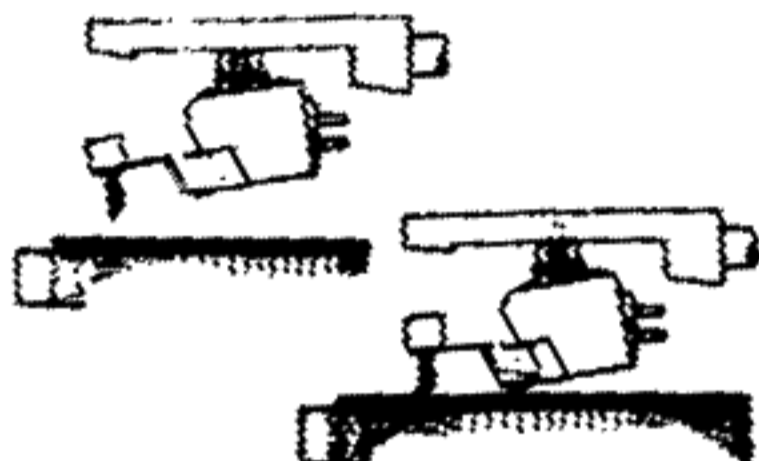
Your cartridge has a plastic cover protecting the stylus tip. To avoid its interfering with the delicate balancing operation to follow, it should now be removed. Simply pull gently down on the 2 side ears. The stylus cover can be replaced, when desired, by placing the front lip over the stylus guard and pressing the ears gently onto the cartridge body.



STEP 4. (TRACKING ADJUSTMENT)

First balance out the tonearm according to the turntable manufacturer's instructions. The cartridge and brush will be clear of the record surface.

Secondly, apply the desired tracking force plus one gram to compensate for the weight of the brush, i.e. if the desired tracking force is 1 gram, then set the adjustment to 2 grams. The cartridge and brush will now settle onto the record surface:



STEP 5. (ANTI-SKATE ADJUSTMENT)

Most probably your turntable has an anti-skate adjustment to compensate for the tendency of a stylus to exert more pressure on the inner groove wall than the outer. In which case, set the anti-skate adjustment scale to the same value as you did the tone arm counter balance in Step 4, i.e. set anti-skate to "2" for 1 gram effective tracking force.

The anti-skate scale may also indicate the stylus type. If so, for your XLZ/7500 MkII: use the scale for an elliptical stylus.

STEP 6. (GROUND LOOP HUM)

With your system switched on, you may experience what is called ground loop hum. This is a special condition in which there are two paths between the ground on the cartridge and the ground on the amplifier allowing hum to be picked up from transformers and motors in or near your equipment. It is possible in the following situations only: if you have a metal tone arm head, and you used the BLUE screw-holder, or plain screws. It will not occur with the BLACK screw-holders since they actually insulate the cartridge from a metal head.

This hum condition can be easily corrected, (the loop broken) as follows:

- Remove the head from the tone arm and replace the stylus guard.
- Disconnect the terminal clip in the tone arm head from the "G" pin. (See diagram in Step 1 above).
- Gently slide off the copper ground strap using the small screwdriver or a needle.
- Reconnect the terminal clip to the "G" pin.
- Replace tone arm head and remove stylus guard. The ground strap is so light that it is not necessary to re-balance the tone arm.

The final adjustments are now made. We wish you many hours of pleasurable listening with your fine new cartridge.