

All Empire products are guaranteed against defects in material and workmanship for a period of one year from the date of purchase and will be repaired or replaced at Empire's option within that period. Please retain proof of purchase date. This guarantee does not include stylus wear.

1 Why did you buy an Empire unit?

- A. Personal preference _____
 B. Recommended by dealer _____
 C. Recommended by friend _____

2 Name Hi Fi magazine(s) subscribed to:

3 Other magazines read regularly:

4 Other magazines read occasionally:

5 Age category:

Under 18 _____ 18-29 _____ 30-45 _____ 45+ _____

6 Turntable/changer maker and model™

INSPECTED #14

EMPIRE
2000

HUM PREVENTION

The Empire cartridge incorporates a hum bucking, four coil structure as well as a complete shield to prevent stray hum in the cartridge. Should any excessive hum exist in your system, it will most likely be because of errors in wiring the rest of the high fidelity system.

Observe the following precautions:

1. Twist audio cables from pickup arm or changer to amplifier. Often, moving the cables slightly will greatly reduce hum.
2. Connect one point on the amplifier chassis to a good ground connection, like a cold water pipe.
3. Try reversing the AC power plugs for each piece of equipment in the system, one at a time.
4. Keep audio cables from pickups or tuners as far from power transformers as possible.

To prevent ground loops from causing hum in your system, it is advisable where possible to use a four wire system. Where three wire arrangements must be used, connect the common lead to both ground terminals at the cartridge.

MODEL	2000
FREQUENCY RESPONSE	20Hz-20kHz ± 3 dB
TRACKING FORCE RANGE	1½-3 gm
SEPARATION: 20Hz to 500Hz	16 dB
500Hz to 15kHz	21 dB
15kHz to 20kHz	13 dB
I.M. DISTORTION @ 3.54 cm/sec	.2% 2kHz-20kHz
STYLUS	.7 mil spherical
EFFECTIVE TIP MASS	1 milligram
COMPLIANCE	14x10 ⁻⁶ cm/dyne
TRACKING ABILITY	32 cm/sec @ 1kHz @ 2 gm
CHANNEL BALANCE	within 1½ dB @ 1kHz
INPUT LOAD	47k Ohms/channel
TOTAL CAPACITANCE	400-500 pF/channel
OUTPUT @ 3.54 cm/sec	7 mV/channel
STYLUS COLOR	Smoke

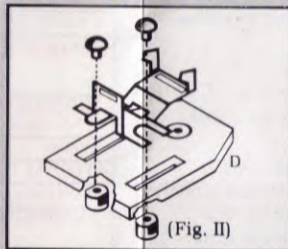
QUICK INSTALLATION FOR EMPIRE CARTRIDGES



(Fig. I)

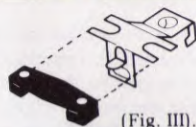
1 Remove the stylus (A) from the cartridge body by grasping it at the sides and pulling straight out (Fig. I). Next, separate the cartridge body (B) from the mounting bracket (C) by lifting the front of the body away from the bracket (Fig. V).

2 Attach the mounting bracket to the headshell (D) with the nuts and screws supplied with the record player (Fig. II).



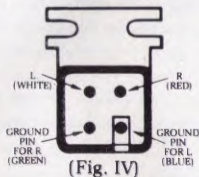
(Fig. II)

Note: When mounting in a metal headshell, use the nylon screws and clear plastic spacer packed with the cartridge. With unusually deep headshells, use the black plastic spacer (Fig. III).

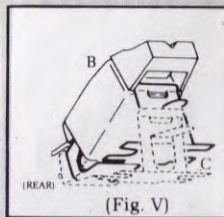


(Fig. III)

3 Attach the wire clips from the headshell to the terminal pins of the cartridge (Fig. IV). The leads from your headshell are to be pushed onto the terminals of the cartridge. **DO NOT** solder the headshell leads directly to the terminals of the cartridge.



(Fig. IV)



(Fig. V)

4 Secure the body to the bracket by first fitting the tabs on the rear of the mounting bracket into the slots in the rear sides of the cartridge body (Fig. V). Then press the body against the mounting bracket (C). You should feel it snap in place (this may require some pressure).

5 The three position stylus guard is removable for less mass while playing by placing it in the middle position and then pulling. It reattaches for safe handling.



Reinsert the stylus assembly into the body, carefully avoiding contact with the stylus lever.

Limited Warranty

Empire Scientific Corp.
Garden City, N.Y. 11530

Model no. _____

Date purchased _____

Your name _____

Address _____

City _____

State _____ Zip _____

Dealer's name _____

Warranty covering this piece of equipment is VOID unless this card is returned to Empire Scientific Corp., properly filled out within one week after date of purchase.