

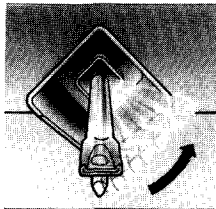
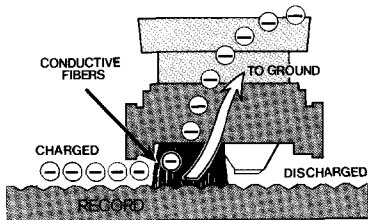


SHURE®

**M95/D SERIES:
M95HE/D AND M95ED/D
DESTATICIZER
CARTRIDGES**

The M95/D Series With the Unique Shure Destaticizer And Shure Side-Guard Stylus Protector

The M95HE/D and M95ED/D cartridges combine M95 performance and high trackability with the Shure Destaticizer whose conductive carbon fibers ground static charges on the record surface. An added bonus is the Side-Guard Stylus Protection System which responds to accidental side thrusts on the stylus by withdrawing the entire shank and tip safely into the stylus housing before damage can occur.



OPERATION OF DESTATICIZER

OPERATION OF SIDE-GUARD

Because the Destaticizer excludes static from the amplifier and speakers, static-caused clicks and pops are eliminated from the audio system. In addition, the conductive fibers prevent static charges, either on the record or on the turntable dustcover, from attracting or repelling the tone arm. The arm-to-record distance, the tracking angle, and the tracking force remain constant; and the cartridge retains its full potential tracking ability.

The Destaticizer's tiny groove-contact fibers reach down into the groove and sweep away interfering dust and grit. The Destaticizer contains more than 10,000 individual fibers with an average diameter of 7.6μ (.0003 in.) each. Because the groove is swept clean before the stylus reaches it, the stylus tracks the groove and not the dust. Reproduction is enhanced, and both record and stylus life are prolonged, because the dust particles are prevented from abrading either the groove or the diamond tip.

Two M95/D Models are available:

The M95HE/D has a distortion-reducing nude hyperelliptical diamond tip and tracking force of $\frac{3}{4}$ to $1\frac{1}{2}$ grams.

The M95ED/D has a nude biradial (elliptical) diamond tip and tracking force of $\frac{3}{4}$ to $1\frac{1}{2}$ grams.

STYLUS REMOVAL AND REPLACEMENT



FIGURE 1

IMPORTANT: Always remove the stylus before making connections or mounting the cartridge. The cartridge's Destaticizer should be in the "guard" position throughout. Exercise care so your fingers don't slip and damage the stylus tip or shank.

ELECTRICAL CONNECTIONS

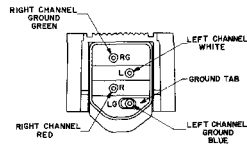


FIGURE 2

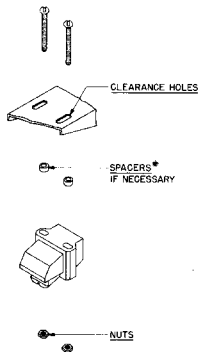
Connect the cartridge as shown. In many tone arms, lead wiring is color coded and matches this cartridge's color coded terminals.

MOUNTING

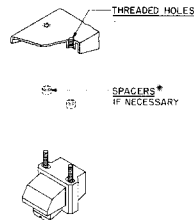
Mounting centers are standard 12.7 mm ($\frac{1}{2}$ "). Mounting hardware is provided. Refer to the tone arm manual for specific details, such as the need for spacers.

The two basic mounting methods are:

1. Mounting the cartridge in a tone arm shell that has unthreaded clearance holes.
2. Mounting the cartridge in a tone arm shell that has threaded mounting holes.

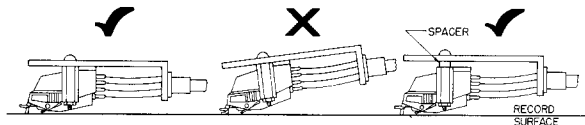


CARTRIDGE MOUNTING, METHOD 1
FIGURE 3



CARTRIDGE MOUNTING, METHOD 2
FIGURE 4

*Top of cartridge mounting block should be parallel to record. Use spacers if necessary.



CARTRIDGE LEVELING
FIGURE 5

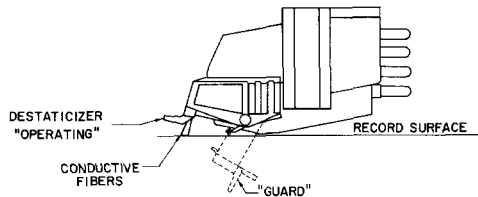


FIGURE 6

TRACKING FORCE

These cartridges are designed for a stylus tip tracking force range of 0.75 to 1.5 grams. When the Destaticizer rests on the record in the operating position, it exerts a downward force of 0.5 grams that must also be accommodated in the total tone arm tracking force setting. Therefore, set the tracking force as follows.

To obtain this force at the stylus tip	Set the arm tracking force adjustment to
0.75 grams	1.25 grams
1.0 gram	1.5 grams
1.5 grams	2.0 grams

When using an external gauge (such as the Shure SFG-2 Stylus Force Gauge), rest both the stylus tip and the Destaticizer brush on the balance beam and set the force for the total tone arm setting (right hand column above). When the Destaticizer rides on the record with the cartridge in use, the extra 0.5 grams will be offset by the Destaticizer and WILL NOT APPEAR AT THE STYLUS TIP. The tip force will be that shown in the left hand column.

SKATING COMPENSATION

Set the antiskate mechanism according to the tone arm manufacturer's directions. Use an antiskating force corresponding to the total tone arm tracking force (right hand column above).

OPERATION

For optimum playing position, the top edge of the mounting block should be parallel to the record. The white cue stripe on the Destaticizer assists in accurate set down by showing the stylus tip position.

SPECIFICATIONS

Frequency Response
20 to 20,000 Hz

Output (at 1,000 Hz)
4.7 mV at 5 cm/sec peak recorded velocity (Output voltage given for stereo cut record. For mono cut record, output voltage at both left channel and right channel cartridge terminals will be 71% of the above figure.)

Channel Separation (minimum)
25 dB at 1 kHz

Channel Balance
Within 2 dB

Tip Tracking Force*
0.75 to 1.5 grams

Total Tone Arm Tracking Force (Destaticizer on record)*
1.25 to 2.0 grams

Force Exerted by Destaticizer
0.5 grams

Typical Trackability (in cm/sec peak recorded velocity)
400 Hz—24 cm/sec
1,000 Hz—33 cm/sec at 1 gram tip tracking force
10,000 Hz—19 cm/sec

Inductance
700 millihenries

DC Resistance
1550 ohms

Optimum Load
47,000 ohms resistance in parallel with 200 to 300 picofarads capacitance per channel. Load resistance can be up to 70,000 ohms with almost no audible change in frequency response. Total capacitance includes both tone arm wiring and amplifier input circuit.

Net Weight
6.4 grams

Replacement Styli
M95HE/D: N95HE/D Stylus, ivory lettering on black nameplate; distortion-reducing nude hyperelliptical tip, $5 \times 38\mu$ (.0002 \times .0015 in.); 0.75 to 1.5 grams tip tracking force

M95ED/D: N95ED/D Stylus, yellow lettering on black nameplate; nude biradial (elliptical) tip, $5 \times 18\mu$ (.0002 \times .0007 in.); 0.75 to 1.5 grams tip tracking force

*See section on tracking force

CLEANING

To clean the Destaticizer, **use no fluids**. Use the brush supplied with the cartridge.

To clean the stylus, use the brush supplied with the cartridge with alcohol or an alcohol-distilled water solution.

Brush only from back to front as shown. Commercial cleaning solutions may cause stylus damage.

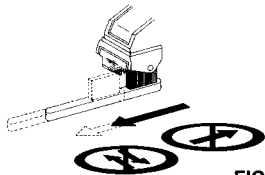


FIGURE 7

SPECIAL NOTE

To maintain the original performance standards of your cartridge, be certain that any replacement stylus you buy bears the following certification on the package: "This Stereo Dynetic® stylus is precision manufactured by Shure Brothers Inc." **AVOID INFERIOR IMITATIONS. THEY WILL SERIOUSLY DEGRADE THE PERFORMANCE OF YOUR CARTRIDGE. ALL GENUINE "DYNETIC®" STYLI ARE MANUFACTURED BY SHURE BROTHERS INC. LOOK FOR THE NAME SHURE ON THE STYLUS GRIP.**

DÉMONTAGE ET MONTAGE DE LA POINTE

Important: toujours retirer la pointe avant d'établir les raccordements ou de monter la cellule. Le dispositif antistatique de la cellule doit toujours se trouver en position de protection (voir figure 1). Veillez à ce que les doigts ne glissent pas et n'endommagent pas la pointe ou la tige de la pointe.

RACCORDEMENTS ÉLECTRIQUES

Raccorder la cellule comme sur la figure 2. Dans de nombreux bras de lecture, les lignes d'amenée sont codées dans les mêmes couleurs que les bornes de raccordement de cette cellule.

MONTAGE DE LA CELLULE

L'écartement du milieu des trous pour monter la cellule est de 12,7 mm. Les pièces permettant son montage sont livrées avec la cellule. (Se reporter au mode d'emploi du bras de lecture pour davantage de détails, par exemple si l'on a besoin de rondelles d'écartement).

Ne pas replacer la pointe avant d'avoir établi les raccordements électriques et terminé le montage.

Il existe deux méthodes de montage de base:

1. Montage de la cellule sur une coquille de bras de lecture qui possède des trous non filetés.
2. Montage de la cellule sur une coquille de bras de lecture avec trous taraudés.

PATENT NOTICE

Cartridge and stylus manufactured under one or more of the following U.S. Patents: 3,055,988; 3,077,521; 3,077,522; 4,270,758; 3,463,889; 4,194,744; 4,275,888; D193,854; D193,934; D201,803; D235,070; D235,351; D235,352; D245,022; D245,433; D252,628; D254,004; D257,676; D255,898; D258,586; other patents pending.

FULL ONE-YEAR WARRANTY

Shure Brothers Incorporated ("Shure"), 222 Hartrey Avenue, Evanston, Illinois 60204, warrants to the owner of this product that it will be free, in normal use, of any defects in workmanship and materials for a period of one year from date of purchase. You should retain proof of date of purchase. Shure is not liable for any consequential damages. If this Shure product has any defects as described above, carefully repack the unit, have it insured, and return it prepaid to:

Shure Brothers Incorporated
Attention: Service Department
222 Hartrey Avenue
Evanston, Illinois 60204

If you are not in the United States, return the unit to your dealer or Authorized Service Center for repair. The unit will be repaired or replaced and returned to you promptly and, if it cannot be repaired or replaced, you may elect to receive a refund. This warranty does not include stylus wear.

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