MODEL M80E

DATA SHEET

GARD-A-MATIC®
STEREO DYNAMIC
PHONOGRAPH CARTRIDGE
HEAD ASSEMBLY

SPECIFICATIONS

MODELS M80E, M80E-D, AND M80E-D19

FREQUENCY RESPONSE: From 20 to 30,000 Hz.

OUTPUT VOLTAGE: 6.8 millivolts per channel at 1,000 Hz. at 5 cm/sec.

CHANNEL SEPARATION: Nominally over 25 db at 3,000 Hz.

CHANNEL BALANCE: Within 2 db of each other

RECOMMENDED LOAD IMPEDANCE: 47,000 ohm (per channel)

INDUCTANCE: 720 millihenries

D.C. RESISTANCE: 630 ohms

STYLUS MODEL REPLACEMENT: Grip Color—yellow

NS5E: REPLACEMENT STYLUS:

ELLIPTICAL SHAPED DIAMOND TIP

.0007 inch (17.8 microns) frontal radius

.0010 inch (25.4 microns) between points

.0002 inch (5 microns) side contact radii

COMPLIANCE: \( \frac{1}{125} \times 10^{-6} \) cm/dyne at 26.7°C.

TRACKING FORCE: 1± grams maximum

INSTALLATION

For Automatic and Manual Play:

1. Remove present pickup head and insert Shure Model into phono arm. Care must be taken in removal and inserting of the pickup heads not to cause damage to the stylus, or to disturb the position of the leads.

2. Set stylus force indicator to "0."".

3. Balance arm as per Garrard or Dual instructions and set stylus force indicator in the range of 1± to 1± grams.

In this case, the clearance from the record surface to the plastic safety bumper at the rear of the cartridge will be between 0.7 to 0.75. This range in recommended playing position should be maintained even if it is necessary to adjust the 1± gram setting on the arm indicator slightly. This may be necessary due to the tolerance buildup in certain arms plus slight inaccuracies in the arm-balancing process.

NOTE: If it is desired to play a stack of five records, the clearance of the safety bumper should be measured with THREE records on the turntable.

Suggestions for Cleaning Your Stylus

To clean the stylus, use a camel’s-hair brush (No. 2 size or smaller) dipped lightly in alcohol. The alcohol will remove any sludge deposits which may have coated the stylus tip. The brush bristles should be trimmed to a length no longer than \( \frac{1}{4} \) inch. Always brush the stylus with a forward movement from the rear (terminal end of the cartridge) to the front. Never brush or wipe the stylus from front to back or side to side.
CAUTION: The position of the leads inside the pickup head shell is extremely important in maintaining proper tracking force and proper operation of the cartridge-head assembly. The leads have been positioned at the factory for optimum performance and the leads should not be disturbed.

SPECIAL NOTE: The Dynetic stylus assembly used in these cartridges is the most critical component. 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.

MODEL M80E

SAFETY BUMPER

MODEL M80E-D MODEL M80E-DI9

RECOMMENDED PLAYING POSITIONS

CONCLUSION: Obvious if any imitation Dynetic Stylus is used we cannot guarantee the performance of Shure Dynetic cartridges will meet the published Shure specifications. Accept no substitute.

Guarantee
The Stereo Dynetic Head Assemblies and Stereo Dynetic Stylus are guaranteed to be free from electrical and mechanical defects for one year from the date of shipment from the factory provided all instructions are complied with fully. The Guarantee does not cover stylus wear, nor does it cover damage to the assembly by abuse or mishandling.

Service Protection—Accidental Damage
Shure Dynetic Stylus will withstand long, continued usage. However, if after assembly should be damaged due to accidental mishandling, and diamond tip is still intact, return the styilus assembly to the factory for servicing and testing to original performance standards at a nominal service charge of $5.00. This price is only applicable when the stylus assembly is returned to the factory direct to the factory in Evanston, In Canada, send to Canadian address shown below. (Prices proportionately higher in Canada.) Please enclose a check for the service charge with the returned assembly.

Return Stylus to: In Canada return stylus to:
Shure Brothers, Inc. A. C. Shummond and Sons, Ltd.
225 Hartrey Ave. 2802 South Park Blvd.
Evanston, Illinois 60204 Agincourt, Ontario
U.S.A.

PATENT NOTICE: Manufactured under U.S. Patents 3,655,988, 3,077,521, and 3,077,621. Other patents pending.

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