MODEL M75E-P20
TYPE 2

Hi-TRACK

HARTRLY AVO EVANSTOH, ILL. (60204)

MICROPHONES AND ELECTRONIC COMPONENTS

AREA CODE 312/328-8000 ★ CABLE SHUREMICRO

DATA SHEET
GARD-A-MATIC®
STEREO DYNETIC
PHONOGRAPH CARTRIDGE
HEAD ASSEMBLY

SPECIFICATIONS
MODEL M75E-P20 TYPE 2

FREQUENCY RESPONSE: From 20 to 20,000 Hz.

OUTPUT VOLTAGE: 5.0 millivolts per channel at 1,000 Hz. at 5 cm/sec.

CHANNEL SEPARATION:Nominal over 26 db at 1,000 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

STYLEST MODEL N75E TYPE 2 (ET2) Replacement: Grip Color—Yellow

ELLIPITCAL SHAPED DIAMOND TIP .0007 inch (17.8 microns) frontal radius .0010 inch (25.4 microns) between points of contact with groove ..0002 inch (5 microns) side contact radii

TRACKING FORCE: 1½ grams maximum

TRACKABILITY:

MODEL M75E-P20 Type 2 at a stylus force of 1 gram

400 Hz. — 20 cm/sec
1,000 Hz. — 26 cm/sec
10,000 Hz. — 18 cm/sec

Model M75E-P20 Type 2 is a high quality elliptical stylus Stereo phono cartridge mounted in a retractable safety suspension system to provide a scratch-proof, bounce-proof, feature to the operation of an automatic turntable.

The elliptical stylus cartridge is spring mounted in the pickup head. A maximum needle force of 1½ grams is exerted on the face of the record. Forces in excess of approximately 2 grams will cause either the plastic safety bumper at the rear of the cartridge or the plastic bumper in the stylus grip to come in contact with the record surface and thereby protect the record from needle scratches and protect the needle itself from damage.

Perhaps the most desirable advantage of all is that the M75E-P20 Type 2 makes it possible to operate the turntable in situations where a changer normally will not work well. These include such adverse conditions as aboard a ship during a storm, in rooms where modern dancing is done, and, in general, in any area in which shaky floors or unstable phonograph stands will normally cause mistracking of the cartridge.

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 instructions and set stylus force indicator in the range of 1½ to 1½ grams.

4. The vertical tracking angle adjustment on the pickup head has been preset at the factory providing optimum performance—no further adjustment is necessary.

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 slipdine deposits which may have coated the stylus tip. The brush bristles should be tapered to a length no longer than 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.

EASY STYLUS REPLACEMENT

Grasp molded housing of stylus between thumb and forefinger. Gently withdraw stylus by pulling forward out of cartridge. Grasp replacement stylus between thumb and forefinger and insert into stylus socket. Pull stylus into socket until the molded housing of the stylus mates with the cartridge case. Care must be taken not to allow the finger to slip off the molded housing of the stylus, resulting in damage to the stylus tip or shank.

STYLUS REPLACEMENT

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.

RECOMMENDED PLAYING POSITION

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.

LABORATORY TEST FINDINGS: (Note: The following stylus test findings are only an example of the close scrutiny Shure pays to all imitation Stereo Dynetic Stylus.) Shure laboratory tests show that the imitation stylus assemblies labeled as replacements for the Shure Model N3D Stylus Assembly vary drastically in important performance characteristics. For example, the compliance varied from a low of 0.9 to a high of 11.5, requiring 9.0 grams to track a record with a low compliance stylus, and 3 grams with a high compliance stylus. The high compliance stylus retracted at 4 grams needle force allowing the cartridge case to drag on the record surface, thereby becoming inoperative. Response at high frequency (relative to the level) ranged from a 5.5db peak to a drop of 7.6db. Separation varied from “good” (27db) to “poor” (16.5db), at 1 kc. These figures reveal that there is very little consistency in performance characteristics of the imitation Dynetic Stylus.

In each of the categories shown above the results ranged from good to poor. As a matter of fact, only 10% of the samples met the Shure performance standards for the Shure Model N3D Stylus Assembly. Our examination has disclosed that most of these returned cartridges are using imitation Dynetic Stylus. In addition to our test findings our Service Department records show that an increasing number of Dynetic Phonograph Cartridges are being returned because of poor performance—and our examination has disclosed that most of these returned cartridges are using imitation Dynetic Stylus.

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

Guarantee

The Stereo Dynetic Cartridges 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 stylus assembly from abuse or mishandling.


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