

MICROPHONES AND ELECTRONIC COMPONENTS

AREA CODE 312/866-2200 · CABLE: SHUREMICRO TWX: 910 231 0048 TELEX: 72-4381

THE PREMIER FAMILY OF STEREO SOUND REPRODUCERS

MODEL M110E

STEREO DYNETIC® PHONOGRAPH CARTRIDGE

CARTRIDGE AND STYLI SPECIFICATIONS

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N70EJ 10 x 18μ (.0004 x .0007 in.) Biradial (Elliptical)	Light Green	6.2 mV	20 to 20,000 Hz	within 2 dB	20 dB at 1 kHz	1½ to 3 grams	400 Hz - 19 cm/sec 1,000 Hz - 26 cm/sec 10,000 Hz - 12 cm/sec at 2 grams
N70-3† 64µ(.0025") Spherical	Dark Green	6.2 m V	20 to 20,000 Hz	_	_	11/2 to 3 grams	

†Optional 78 rpm Stylus: Set amplifier to "MONO" or "A+B."

*Output voltages given for stereo cut record. For MONO cut record, output voltage at both left channel and right channel cartridge terminals will be 71% of figures above.

**Tracking forces greater than maximum indicated should not be used.

NET WEIGHT: 5.7 grams

> INDUCTANCE: 720 millihenries DC RESISTANCE: 630 ohms

47,000 ohms resistance in parallel with 400 to 500 pico-OPTIMUM LOAD: farads total 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.

FOUR-CHANNEL: This Stereo Dynetic® cartridge is compatible with all four-channel matrix systems.

MONOPHONIC OPERATION: Set function switch on amplifier to "MONO" "A+B." If amplifier is not equipped with this switch, connect left and or right channels in parallel.

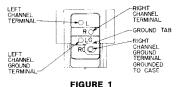
CONNECTIONS (see Figure 1): Right "hot" lead (usually red) to "R," right ground (usually green) to "RG." Left "hot" lead (usually white) to "L," left ground (usually blue) to "LG." If metal head is causing ground loop hum, remove the ground tab. The metallic cartridge shield is disconnected from the right between the ground hum the second ground hum. from the right channel ground by the removal of the ground tab.

CAUTION: Do not make solder connection to cartridge terminals. STYLUS REPLACEMENT (see Figure 2): Grasp molded housing of and gently pull forward and gently pull forward replacestylus out of cartridge. ment stylus into socket and press until housing mates with cartridge case.

MOUNTING [12.7 mm (1/2 in.) mounting centers]:

Mounting screws are provided.

- 1. Remove stylus guard and stylus (see Stylus Replacement).
- 2. Connect leads to cartridge (see Figure 1).
- 3. Lay cartridge in shell and align mounting holes on side of cartridge with holes or threads in shell. Follow turntable manufacturer's instructions to mount cartridge in tone arm or plug-in shell.
- 4. Reinsert stylus (see Stylus Replacement).



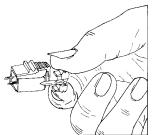


FIGURE 2

RECOMMENDED STYLUS CLEANING: Use a camel's hair brush (No. 2 size RECOMMENDED STYLUS GLEANING. Use a tallets had brush into the property of smaller), trimmed to approximately 6 mm (1/4 in.), dipped in alcohol or an alcohol-distilled water solution. Commercial cleaning solutions may cause stylus damage or corrosion. Always brush stylus from back to front; never brush or wipe stylus from front to back or side to side.

TO PRESERVE STYLUS LIFE:

- Follow turntable or tone arm instructions when adjusting antiskating force Do not handle the tone arm while it is in operation since this may
- cause the arm to sweep across the record.

 If it is necessary to manually place the tone arm in the record groove while turntable is rotating, release it as soon as the stylus engages the

- correct improper set-down adjustment or malfunction of the turntable changing mechanism to prevent the stylus from striking the edge of the turntable or record. Do not stack more records than turntable manufacturer recommends.
- Take care to properly insert the stylus into the cartridge assembly and the cartridge and shell assembly into the tone arm receptacle.

 Use proper vertical tracking force setting for each cartridge.

 Do not use badly warped, cracked or imperfect records.

 When dusting the turntable protect the stylus with the stylus guard.

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- 8. When dusting the turntable protect the stylus with the stylus guard. 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. For more information on your Shure stylus, write for booklet: "A Visit to the Small World of a Stylus."

FULL ONE-YEAR WARRANTY: Shure Brothers Incorporated ("Shure"), PULL UNE-YEAR WAHHANIY: 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, care-

fully repack the unit and return it prepaid to: Shure Brothers Incorporated Attention: Service De 1501 West Shure Drive Service Department

Arlington Heights, Illinois 60004

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.

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, and 3,463,889.

Manufactured by Shure Brothers Incorporated 222 Hartrey Avenue, Evanston, IL 60204