# Model M992E

## Stereo Dynetic® Phonograph Cartridge

### Cartridge and Stylus Specifications

<table>
<thead>
<tr>
<th>Replacement</th>
<th>Stylus Grip</th>
<th>Output (at 1 kHz, 20.000 Hz)</th>
<th>Channel Balance</th>
<th>Channel Separation (Minimum)</th>
<th>Tracking Force</th>
<th>Transfer Ratio (Corrected Vertically)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N70EJ 10 x 16µ (.0004 x .0007 in.) Biased (Elliptical)</td>
<td>Light Green</td>
<td>6.2 mV</td>
<td>20 to 20,000 Hz within 2 dB</td>
<td>20 dB at 1 kHz</td>
<td>1/2 to 3 grams</td>
<td>400 Hz - 19 cm/sec 1,000 Hz - 26 cm/sec 10,000 Hz - 12 cm/sec at 2 grams</td>
</tr>
<tr>
<td>N70-31 64µ (.0025”) Spherical</td>
<td>Dark Green</td>
<td>6.2 mV</td>
<td>20 to 20,000 Hz</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

*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 millihenrys

**DC RESISTANCE: 630 ohms

**OPTIMUM LOAD: 47,000 ohms resistance in parallel with 40 to 500 picofarads 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" or "A+B." If amplifier is not equipped with this switch, connect left and 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 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 stylus and gently pull forward out of cartridge. Insert replacement stylus into socket and press until housing mates with cartridge case.

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27A1511 (SD) Printed in U.S.A.
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 car-
   tridge with holes or threads in
   shell. Follow turntable manu-
   facturer's instructions to mount
   cartridge in tone arm or plug-in
   shell.

4. Reinsert stylus (see Stylus Re-
   placement).

RECOMMENDED STYLUS CLEANING: Use a camel's hair brush (No. 2 size
or 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:

1. Follow turntable or tone arm instructions when adjusting antiskating
   force.

2. Do not handle the tone arm while it is in operation since this may
   cause the arm to sweep across the record.

3. 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
   record groove.

4. 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 manufac-
   turer recommends.

5. Take care to properly insert the stylus into the cartridge assembly and
   the cartridge and shell assembly into the tone arm receptacle.

6. Use proper vertical tracking force setting for each cartridge.

7. Do not use badly warped, cracked or imperfect records.

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 follow-

ing 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®" STYLUS 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"),

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 Department
1501 West Shure Drive
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 3,463,689.

Manufactured by Shure Brothers Incorporated

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