## SPECIFICATIONS

### General
- **Type**: Electret condenser microphone
- **Plug**: Gold plated miniplug
- **Power source**: Plug in power
- **Dimensions**: Approx. 10 × 45 mm (dia./h) (13/32 × 13/16 in.) incl. projecting parts and controls
- **Mass**: Approx. 15 g (1 oz)
- **Supplied accessories**: Wind screen (1), Carrying case (1)

### Performance
- **Frequency response**: 100 – 15,000 Hz
- **Directivity**: Unidirectional (mono)
- **Sensitivity**: Open circuit output voltage *1 : – 34.0 ± 3.5 dB
- **Maximum sound pressure level *2**: More than 110 dBSPL
- **Operating temperature range**: 0°C – 40°C (32°F – 104°F)

*1 0 dB = 1 V/Pa, 1,000 Hz (1 Pa = 10 µbar = 94 dB SPL)

*2 1 % wave distortion is present at 1,000 Hz.

(0 dBSPL = 2 × 10^–5 Pa)

Design and specifications are subject to change without notice.
Notes on chip component replacement
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

**UNLEADED SOLDER**
Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead. (Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

![LEAD FREE MARK]

Unleaded solder has the following characteristics.
- **Unleaded solder melts at a temperature about 40°C higher than ordinary solder.**
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350°C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- **Strong viscosity**
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- **Usable with ordinary solder**
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

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**SECTION 1
SERVICING NOTES**

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**MIC1 INSTALLATION**

![MIC1 INSTALLATION Diagram]

**1.** Twist the lead wire show in arrow direction.

**2.** Insert the lead wire then return twist.

**Note:**
When remove solder front P1, change the lead wire (A32) for new one.

**3.** Soldering gray lead wire to "V" shape pattern side.

**4.** Soldering white lead wire.

**5.** Screen.

**6.** Insert the MIC1. Paying attention as lead wire isn’t nip in.

**7.** Insert the MIC1. Paying attention as lead wire isn’t nip in.

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**P1**
Lead wire (A32)

**C1**
MIC1

**OK**
MIC1

**NG**
MIC1

**Arm (front)**

---

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SECTION 1
DIAGRAM

[SCHEMATIC DIAGRAM]

Note:
- All capacitors are in \( \mu F \) unless otherwise noted. \( pF, \mu\mu F \)
  50 WV or less are not indicated except for electrolytics and tantalums.
- \( B+ \) Line.
- Power voltage is dc 1.5 V and fed with regulated dc power supply from mic plug.
- Voltages are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (input impedance 10 M\( \Omega \)).
  Voltage variations may be noted due to normal production tolerances.
- Signal path.

SECTION 2
EXPLODED VIEW

NOTE:
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

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<th>Ref. No.</th>
<th>Part No.</th>
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<td>3-239-684-01</td>
<td>CASE, MICROPHONE</td>
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<td>3</td>
<td>3-241-825-01</td>
<td>SCREEN</td>
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<td>3-239-685-01</td>
<td>SCREW, ARM FASTENING</td>
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<td>5</td>
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<td>7</td>
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<td>WASHER, BENDING</td>
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<td>1-815-831-11</td>
<td>PLUG, CHARGE (SMALL TYPE)</td>
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## REVISION HISTORY

Clicking the version allows you to jump to the revised page. Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

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<td>2002.02</td>
<td>New</td>
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<tr>
<td>1.1</td>
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