**SPECIFICATIONS**

**General**
- Type: One-point stereo (employing the Mid-side stereo system), electret condenser microphone
- Microphone cord: 4 mm diameter, two core-shielded OFC (Oxygen-free copper) cord with Canon XLR-5-12C type connector and gold plated L-shaped stereo mini-plug
- Stand screw: PF ⅛ screw
- Dimensions: Approx. 40 x 183 mm (diameter x length) (1 5/8 x 7 1/4 in.), projecting parts and controls not included
- Mass: Approx. 330 g (11.7 oz.) including battery and cord
- Supplied accessories: Wind screen (1)
- Microphone holder (PF ⅛ screw) (1)
- Microphone stand (1)
- Carrying case (1)

**Performance**
- Frequency response: 50 - 18,000 Hz
- Directivity: Unidirectional × 2 (Directive angle: 90° or 120°) (switchable)
- Output impedance: 600 ohms ± 30% unbalanced
- Sensitivity (directive angle 120°):
  - Open circuit output voltage: $0.1 \pm 3$ dB
  - Effective output level: $-45.8 \pm 3$ dBm
  - Difference between L and R channel sensitivity: Less than $3$ dB
- Power requirements:
  - Normal operating voltage: 1.5 V, R6 (Size AA) battery
  - Minimum operating voltage: 1.1 V, R6 (Size AA) battery
  - Battery life: Approx. 2,000 hours with Sony R6P (SR) battery

**Maximum sound pressure level input**
- More than 115 dBm.

**Dynamic range**
- More than 90 dB

**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 dBm)
*2 0 dBm = 1 mW/Pa, 1,000 Hz
*3 1% wave distortion at 1,000 Hz (0 dBm = 2 x 10^-3 Pa)

**FEATURES**

This microphone is suitable for use in a variety of situations such as at concerts or conferences with digital recording equipment (Sony DAT, MD, NT (Digital Microcorder), etc.)

- The turning capsule function allows both vertical and horizontal sound pick-up.
- The Mid-Side Stereo System provides a natural sound pick-up, delivering a stereo sound image with superb clarity.
- The directive angle (between left and right channels) can be set to 90° or 120° according to the sound source.

**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.

---

**ELECTRET CONDENSER STEREO MICROPHONE**

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**SONY**
**SECTION 1**
**GENERAL**

---

**Installing the battery (See fig. **A**)**

1. Turn the grip counterclockwise.
2. Pull out the grip to open the battery compartment.
3. Insert a new R6 (size AA) battery.

**Battery life**

When the power is turned on, the battery check indicator lights momentarily. When the battery becomes weak, the indicator remains dimly lit or does not light at all. In this case, replace the battery with a new one. The Sony R6(SR) manganese battery gives continuous operation of the microphone for about 2,000 hours.

**Notes on battery**

To avoid damage to the unit from leakage and corrosion:
- Be sure to match the **O** and **O** on the battery with the same marks on the battery compartment.
- Do not try to recharge battery.
- Remove the battery if the microphone is not to be used for a long period of time.
- In case of battery leakage, wipe off any deposit in the battery compartment before installing a new battery.

**Connection (See fig. **B**)**

Connect the L-shaped stereo miniplug to the MIC jack of your recording equipment (MD, DAT, etc.) as illustrated in fig. **B**.

**Parts Identification and Uses (See fig. **C**)**

1. **Connector**
   - Insert the connector in until it clicks. Remove the connector by pressing the button.

2. **Wind screen**
   - Attach in order to reduce wind or breathing noise.

3. **Battery check Indicator**
   - When the power/directive angle switch is turned from OFF to DN, this indicator lights momentarily. When the battery becomes weak, the indicator remains dimly lit or does not light at all. In this case, replace the battery with a new one.

4. **Power/directive angle switch**
   - Set the switch according to the sound source.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Turns power off.</td>
</tr>
<tr>
<td>90°</td>
<td>Use to pick up a relatively near, narrower sound source (instrumental solo, birds chirping, etc.).</td>
</tr>
<tr>
<td>120°</td>
<td>Use to pick up a relatively distant, wider sound source (orchestra, chorus, train, car race, etc.).</td>
</tr>
</tbody>
</table>

The above gives guidelines for selecting the appropriate angle. Although following those guidelines is encouraged, you can freely choose other angles according to your own preference.

5. **Microphone holder**
   - You can also connect to a microphone stand (PP 1/1) (optional).

6. **Grip**
   - As shown in the illustration, it can be used as a handy microphone. Loosen the screw and detach the grip from the microphone stand.

7. **Screw**
   - Tighten the screw after setting the direction of the microphone.

8. **L-shaped stereo miniplug**
   - Connect to the MIC jack of your recording equipment (DAT, MD, NT, etc.)

9. **Turning capsule button (See fig. **D**)**
   - Set the turning capsule button according to the direction of the sound source. As shown in the illustration, set the microphone head toward the sound source by pressing the turning capsule button.

10. **Using the microphone vertically**
    - This position makes a more accurate sound pick-up. Use this position after monitoring and adjusting the sound quality of your recording equipment.

11. **Using the microphone horizontally**
    - This position makes for a successful sound pick-up without any fine adjustments.

12. **Microphone stand (See fig. **E**)**
    - As shown in the illustration, spread out the legs to use the stand.

---

**English**

**Installing the battery (See fig. A)**

1. Turn the grip counterclockwise.
2. Pull out the grip to open the battery compartment.
3. Insert a new R6 (size AA) battery.

**Battery life**

When the power is turned on, the battery check indicator lights momentarily. When the battery becomes weak, the indicator remains dimly lit or does not light at all. In this case, replace the battery with a new one. The Sony R6(SR) manganese battery gives continuous operation of the microphone for about 2,000 hours.

**Notes on battery**

To avoid damage to the unit from leakage and corrosion:
- Be sure to match the **O** and **O** on the battery with the same marks on the battery compartment.
- Do not try to recharge battery.
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- In case of battery leakage, wipe off any deposit in the battery compartment before installing a new battery.

**Connection (See fig. B)**

Connect the L-shaped stereo miniplug to the MIC jack of your recording equipment (MD, DAT, etc.) as illustrated in fig. B.

**Parts Identification and Uses (See fig. C)**

1. **Connector**
   - Insert the connector in until it clicks. Remove the connector by pressing the button.

2. **Wind screen**
   - Attach in order to reduce wind or breathing noise.

3. **Battery check Indicator**
   - When the power/directive angle switch is turned from OFF to DN, this indicator lights momentarily. When the battery becomes weak, the indicator remains dimly lit or does not light at all. In this case, replace the battery with a new one.

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   - You can also connect to a microphone stand (PP 1/1) (optional).

6. **Grip**
   - As shown in the illustration, it can be used as a handy microphone. Loosen the screw and detach the grip from the microphone stand.

7. **Screw**
   - Tighten the screw after setting the direction of the microphone.

8. **L-shaped stereo miniplug**
   - Connect to the MIC jack of your recording equipment (DAT, MD, NT, etc.)

9. **Turning capsule button (See fig. D)**
   - Set the turning capsule button according to the direction of the sound source. As shown in the illustration, set the microphone head toward the sound source by pressing the turning capsule button.

10. **Using the microphone vertically**
    - This position makes a more accurate sound pick-up. Use this position after monitoring and adjusting the sound quality of your recording equipment.

11. **Using the microphone horizontally**
    - This position makes for a successful sound pick-up without any fine adjustments.

12. **Microphone stand (See fig. E)**
    - As shown in the illustration, spread out the legs to use the stand.
SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

2-1. GRIP

2-2. GRILLE ASSY

Note) When installing, fit the position switch knob and switch.
3-1. PRINTED WIRING BOARD

Note:
- : parts extracted from the conductor side.
- : Pattern on the side which is seen.
(The other layer's patterns are not indicated.)
SECTION 4
EXPLODED VIEW

NOTE:
• The mechanical parts with no reference number in the exploded views are not supplied.
• Items marked *** are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
• ‐XX and ‐X mean standardized parts, so they may have some difference from the original one.
• Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) ... (RED)
  Parts Color Cabinet's Color

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Part No.</th>
<th>Description</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>X-2542-140-1</td>
<td>GRILLE ASSY</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2-545-112-01</td>
<td>KNOB, ROTARY</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>3-316-938-51</td>
<td>SCREW (B1.4X6), TAPPING</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>2-545-111-01</td>
<td>KNOB, SWITCH</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>3-701-441-21</td>
<td>WASHER</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>2-523-713-00</td>
<td>TERMINAL</td>
<td></td>
</tr>
<tr>
<td>*7</td>
<td>2-532-219-00</td>
<td>TERMINAL, GROUND</td>
<td></td>
</tr>
<tr>
<td>*8</td>
<td>2-545-122-01</td>
<td>FRAME</td>
<td></td>
</tr>
<tr>
<td>*9</td>
<td>2-545-113-01</td>
<td>FRAME, ROTARY</td>
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<tr>
<td>10</td>
<td>2-545-114-01</td>
<td>WASHER, RUBBER</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>3-701-443-11</td>
<td>WASHER</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>2-545-126-01</td>
<td>TERMINAL, MINUS</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>2-545-110-01</td>
<td>TERMINAL, PLUS</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>3-669-480-21</td>
<td>+ PTPWH 2</td>
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</table>

<table>
<thead>
<tr>
<th>Ref. No.</th>
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<th>Description</th>
<th>Remark</th>
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<td>2-545-116-01</td>
<td>PLATE, GROUND</td>
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<td>*16</td>
<td>A-4542-430-A</td>
<td>AMP BOARD, COMPLETE</td>
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<tr>
<td>*17</td>
<td>2-545-108-01</td>
<td>GRIP</td>
<td></td>
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<tr>
<td>18</td>
<td>1-543-298-11</td>
<td>BEAD, FERRITE</td>
<td></td>
</tr>
<tr>
<td>CN1</td>
<td>1-560-480-00</td>
<td>PIN, CONNECTOR 5P</td>
<td></td>
</tr>
</tbody>
</table>

Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
# SECTION 5
## ELECTRICAL PARTS LIST

**NOTE:**
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- *XX and *X mean standardized parts, so they may have some difference from the original one.
- **RESISTORS**
  All resistors are in ohms.
  **METAL:** Metal-film resistor.
  **METAL OXIDE:** Metal oxide-film resistor.
  **F:** Nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- **SEMICONDUCTORS**
  In each case, u : μ, for example:
  uPC.. : μPC..  uPD.. : μPD..
- **CAPACITORS**
  uF : μF
- **COILS**
  uH : μH

---

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Part No.</th>
<th>Description</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>*</td>
<td>A-4542-430-A</td>
<td>AMP BOARD, COMPLETE</td>
<td><strong>CAPACITOR</strong></td>
</tr>
<tr>
<td>C1</td>
<td>1-135-259-11</td>
<td>TANTAL. CHIP 10uF 20% 6.3V</td>
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</tr>
<tr>
<td>C2</td>
<td>1-135-259-11</td>
<td>TANTAL. CHIP 10uF 20% 6.3V</td>
<td></td>
</tr>
<tr>
<td>C11</td>
<td>1-104-847-11</td>
<td>TANTAL. CHIP 22uF 20% 4V</td>
<td></td>
</tr>
<tr>
<td>C12</td>
<td>1-115-167-11</td>
<td>TANTALUM 10uF 20% 4V</td>
<td></td>
</tr>
<tr>
<td>D1</td>
<td>8-719-989-53</td>
<td>LED CL-200HR-C-TSL (BATTERY CHECK)</td>
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</tr>
<tr>
<td>D2</td>
<td>8-719-976-96</td>
<td>DIODE DTZ4.7C</td>
<td></td>
</tr>
<tr>
<td>R1</td>
<td>1-216-059-00</td>
<td>METAL CHIP 2.7K 5% 1/10W</td>
<td></td>
</tr>
<tr>
<td>R2</td>
<td>1-216-058-00</td>
<td>METAL GLAZE 2.4K 5% 1/10W</td>
<td></td>
</tr>
<tr>
<td>R4</td>
<td>1-216-097-00</td>
<td>METAL GLAZE 100K 5% 1/10W</td>
<td></td>
</tr>
<tr>
<td>R5</td>
<td>1-216-097-00</td>
<td>METAL GLAZE 100K 5% 1/10W</td>
<td></td>
</tr>
<tr>
<td>R11</td>
<td>1-216-079-00</td>
<td>METAL CHIP 18K 5% 1/10W</td>
<td></td>
</tr>
<tr>
<td>R12</td>
<td>1-216-041-00</td>
<td>METAL CHIP 470K 5% 1/10W</td>
<td></td>
</tr>
<tr>
<td>R13</td>
<td>1-216-025-00</td>
<td>METAL GLAZE 100K 5% 1/10W</td>
<td></td>
</tr>
<tr>
<td>S1</td>
<td>1-762-894-11</td>
<td>SWITCH, SLIDE (POWER/DIRECTIVE ANGLE)</td>
<td></td>
</tr>
</tbody>
</table>

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**MISCELLANEOUS**

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>1-543-298-11</td>
<td>BEAD, FERRITE</td>
</tr>
<tr>
<td>CN1</td>
<td>1-560-490-00</td>
<td>PIN, CONNECTOR 5P</td>
</tr>
<tr>
<td>MIC1</td>
<td>8-814-281-00</td>
<td>MIC-CUPSULE, CONDENSER CU17-06 (MID)</td>
</tr>
<tr>
<td>MIC2</td>
<td>8-814-178-00</td>
<td>MIC-CUPSULE, CONDENSER CU17-03 (SIDE)</td>
</tr>
<tr>
<td>Q1</td>
<td>8-729-037-43</td>
<td>FET 2SK1578-A</td>
</tr>
<tr>
<td>Q2</td>
<td>8-729-037-43</td>
<td>FET 2SK1578-A</td>
</tr>
<tr>
<td>Q3</td>
<td>8-729-037-43</td>
<td>FET 2SK1578-B</td>
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<td>T1</td>
<td>1-431-688-11</td>
<td>TRANSFORMER, OUTPUT</td>
</tr>
<tr>
<td>T2</td>
<td>1-431-688-11</td>
<td>TRANSFORMER, OUTPUT</td>
</tr>
</tbody>
</table>

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When indicating parts by reference number, please include the board.