Thank you for purchasing TOA's Wide Range Speaker. Please carefully follow the instructions in this manual in order to ensure long, trouble-free use of your equipment.

1. SAFETY PRECAUTIONS
   • Before installation or use, be sure to carefully read all the instructions in this section for correct and safe operation.
   • Be sure to follow all the precautionary instructions in this section, which contain important warnings and/or cautions regarding safety.
   • After reading, keep this manual handy for future reference.

   ⚠️ WARNING
   Indicates a potentially hazardous situation which, if mishandled, could result in death or serious personal injury.

   • Install the speaker only in a location that can structurally support the weight of the speaker and the mounting bracket. Doing otherwise may result in the speaker falling down and causing personal injury and/or property damage.
   • Do not stand or sit on, nor hang down from the speaker as this may cause it to drop, resulting in personal injury and/or property damage.

   ⚠️ CAUTION
   Indicates a potentially hazardous situation which, if mishandled, could result in moderate or minor personal injury, and/or property damage.

   • Do not operate the speaker for an extended period of time with the sound distorting. This is an indication of a malfunction, which in turn can cause heat to generate and result in a fire.

2. GENERAL DESCRIPTION AND FEATURES

   TOA’s CS-154U outdoor speaker features a resin enclosure and stainless steel hardware for all-weather durability. It is designed to offer the weather resistance and high efficiency of horn speakers combined with the high sound quality of cone speakers. The CS-154U also employs a constant directivity horn for clear sound output over the limited horizontal range of dispersion.

3. APPEARANCE AND DIMENSIONS

4. WIRING DIAGRAM

   ![Wiring Diagram]

   Note:
The rotary switch is factory-preset to 670 Ω.
5. IMPEDANCE CHANGE
The input impedance is factory-preset to 670 Ω. To change the impedance, change the rear panel-mounted rotary switch position to the desired impedance (wattage) using a standard screwdriver.

Notes
- This speaker is designed to operate on a 70 V or 100 V line. Do not connect it to the amplifier's low impedance line.
- No sound is output when the switch is set to the OFF position.

Caution
Never set the switch to "—" position for 100 V line operation, as doing so may result in damage to the speaker.

6. CONNECTION
Make the connections using marrets (wire nuts) inside a UL Listed junction box.

Note
This product shall be installed in accordance with the National Electrical Code, ANSI/NFPA 70.

7. INSTALLATION

8. SPECIFICATIONS

<table>
<thead>
<tr>
<th>Speaker Component</th>
<th>12 cm cone speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Input</td>
<td>15 W</td>
</tr>
<tr>
<td>Impedance</td>
<td>(330 Ω)*, 670 Ω, 1 kΩ, 2 kΩ</td>
</tr>
<tr>
<td>Frequency Response</td>
<td>150 – 15,000 Hz</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>97 dB (1 W, 1 m)</td>
</tr>
<tr>
<td>Finish</td>
<td>Body: ABS resin, off-white, paint</td>
</tr>
<tr>
<td></td>
<td>Bracket: Stainless steel</td>
</tr>
<tr>
<td></td>
<td>Net: Aluminum, gray, paint</td>
</tr>
<tr>
<td>Dimensions</td>
<td>366 (w) x 230 (h) x 272 (d) mm</td>
</tr>
<tr>
<td>Weight</td>
<td>2.8 kg</td>
</tr>
</tbody>
</table>

* Impedance for 70 V line

Note
The design and specifications are subject to change without notice for improvement.