

# MEGAPHONES

## ER-520 ER-520S ER-520W

Thank you for purchasing TOA's Megaphones.  
Please carefully follow the instructions in this manual 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.

#### CAUTION

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

- **Cautions on Use**  
Be sure to observe the following instructions. Failing to observe may cause hearing impairment.
  - Reduce the volume to its lowest setting before use.
  - Never use the megaphone in close proximity to a person's ear.
  - Point the megaphone toward the ground when conducting operational tests.
- Make sure to observe the following handling precautions so that a fire or personal injury does not result from leakage or explosion of the battery.
  - Do not short, disassemble, heat nor put the battery into a fire.
  - Avoid using both new and old batteries together.
  - Never charge batteries of the type which are not rechargeable.
  - Do not solder a battery directly.
  - Be sure to use the specified type of batteries.
  - Note correct polarity (positive and negative orientation) when inserting a battery in the unit.
  - Avoid locations exposed to the direct sunlight, high temperature and high humidity when storing batteries.

### 2. GENERAL DESCRIPTION

Easy-to-operate 6 W handheld megaphones.  
The ER-520S offers a siren switch, and the ER-520W is equipped with a whistle switch.  
The megaphones have a convenient carrying strap.  
Handle and mouthpiece with anti-bacteria treatment improve hygiene and safety during use.

### 3. HANDLING PRECAUTIONS

- The ER-520/520S/520W megaphones are not waterproof. Avoid exposure to rain or environments where they may be splashed by water or other liquids.
- Immediately contact your TOA dealer if the following irregularities should occur. To avoid unit failure, make no further attempt to use the unit in these conditions.
  - Smoke coming from the unit or a strange smell detected.
  - Water or other foreign objects get inside the unit.
  - No sound heard (after checking to be sure that the batteries are loaded in correct orientation, and satisfactorily charged).
- Avoid storing the unit in humid or dusty locations, in locations exposed to direct sunlight, near heaters, or exposed to sooty smoke, as these conditions may result in unit failure.
- When batteries are left installed in the megaphone for extended periods of time, be sure to check them periodically for charge and leakage.
- Do not use the unit for extended periods of time with a distorted sound output. This could cause the inner parts to become hot and possibly result in unit failure.
- Noise may be produced when a mobile phone is used near the unit. However, this is not a failure. Use the mobile phone as far as possible from the unit.
- Use a tightly wrung-out damp cloth to clean the unit. If the unit becomes extremely dirty, use a cloth moistened in a neutral detergent and tightly wrung-out. Never use volatile liquids such as benzene, thinner, or alcohol to clean the unit, as these may deform or discolor its case.

### 4. SPECIFICATIONS

Model No.		ER-520	ER-520S	ER-520W
Output		Rated 6 W, Max. 10 W		
Power Source		AA (R6P) battery x 8 (12 V DC)		
Signal		—	Siren	Whistle
Battery Life* <sup>1</sup> (approx.)		Voice: 10 h —	Voice: 10 h Signal: 40 min	Voice: 10 h Signal: 30 min
Audible Range* <sup>2</sup> (approx.)		Voice: 250 m	Voice: 250 m Signal: 315 m	
Diaphragm		Polyimide film		
Operating Temperature		-10 to +40°C		
Finish	Horn	ABS resin, Light gray	ABS resin, Red	ABS resin, Light gray
	Others	ABS resin, Gray		ABS resin, Gray
Dimensions		160 (w) x 256 (h) x 260 (d) mm		
Weight (without batteries)		620 g	650 g	

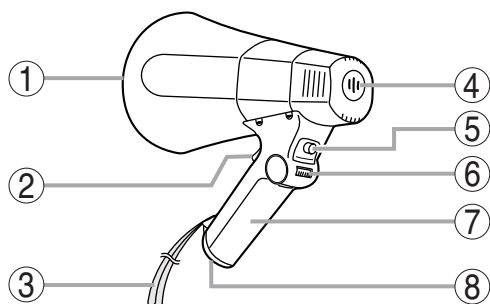
\*<sup>1</sup> Battery life estimates assume 30 minutes of continuous use per day.

\*<sup>2</sup> Audible range estimates assume use on a relatively quiet street using new batteries and will vary depending on remaining battery capacity, surrounding noise, wind direction, obstacles and other environmental conditions.

#### Notes

- No accessory batteries are supplied.
- The design and specifications are subject to change without notice for improvement.

## 5. NOMENCLATURE AND FUNCTIONS



### 1. Speaker (outer horn)

### 2. Talk switch

Press to talk (power turns ON). Release to turn the power OFF.

### 3. Strap

Use this strap to carry the unit.

### 4. Mouthpiece

Speak into the mouthpiece at a distance of about 1 cm. Anti-bacteria treated, the mouthpiece helps make such close contact during use hygienic and safe.

### 5. Signal tone switch (ER-520S/W only)

**[ER-520S]** A siren tone sounds when this switch is pressed, and stops when pressed again.

**[ER-520W]** A whistle tone sounds while this switch is pressed, and stops when released.

**Note:** Output volume is fixed, and cannot be adjusted with the volume control.

### 6. Volume control

Rotate right to increase output volume.



### 7. Handle

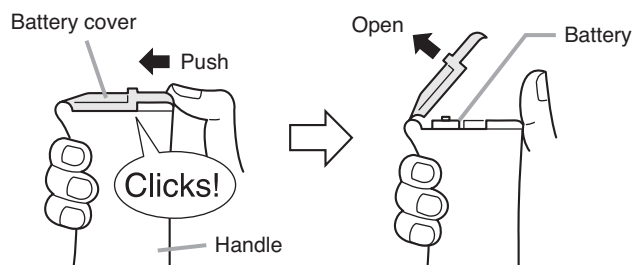
The handle with anti-bacteria treatment improve hygiene and safety during use.

### 8. Battery cover

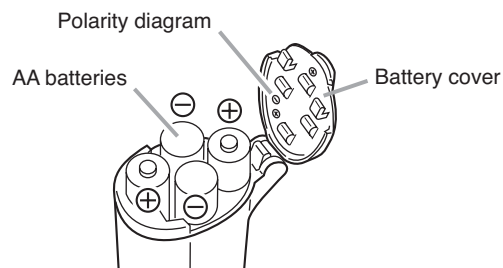
The battery compartment is built inside. Use care when opening and closing the battery cover.

## 6. REPLACING THE BATTERIES

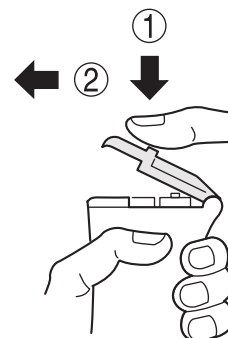
**Step 1.** Open the battery cover as shown below.



**Step 2.** Insert eight AA batteries referring to the polarity diagram on the inside of the battery cover.



**Step 3.** Press the battery cover down and slide it in the direction of the arrow until it clicks to lock.



## 7. HOW TO USE

### ⚠ CAUTION

- Before pressing the talk switch, fully turn down the volume.
- Point the megaphone toward the ground when conducting operational tests.

**Step 1.** Using the volume control, adjust the volume to an appropriate level that does not generate feedback when holding down the talk switch.

Howling is more likely to occur when using the megaphone indoors or in other reverberant places. Particularly when the batteries are new, it may be impossible to adjust the volume to maximum without causing howling. In such cases, set the volume to about mid-level.

**Step 2.** Speak into the mouthpiece at a distance of about 1 cm.

### Note

Speaking too far from the mouthpiece or in too soft voice may result in insufficient volume.

### Traceability Information for Europe (EMC directive 2004/108/EC)

Manufacturer:  
TOA Corporation  
7-2-1, Minatojima Nakamachi, Chuo-ku, Kobe, Hyogo, Japan

Authorized representative:  
TOA Electronics Europe GmbH  
Suederstrasse 282, 20537 Hamburg, Germany



TOA Corporation

URL: <http://www.toa.jp/>

533-03-025-9B