

# Slim Speaker

## Instruction Manual

[ TYPE : SPB-2E ]

Thank you very much for purchasing our PATLITE product. Prior to installation, please read through this manual for proper installation and precautionary steps. In addition, please store this manual for future reference when performing maintenance, repairs or inspections. When performing maintenance and repairs, etc., please be sure to read this book. If there are any questions regarding this product, please contact your nearest PATLITE Sales Representative.

### Notice for Safe Operation

In order to prevent any damage to the user and other personnel or to assets, note the following:

■ The warning indications are divided into the following classes according to the degree of danger or damage incurred when the warning is not taken into consideration and the product is not correctly used.

- WARNING** Indicates an imminently dangerous condition : Failure to follow the instructions may lead to death or serious injury.
- CAUTION** Indicates a potentially dangerous condition: Failure to follow the instructions may lead to slight injury or property damage.

### 1. To operate this product properly, observe the following:

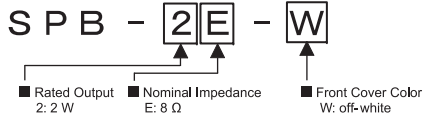
- WARNING**
  - Be sure the power is disconnected before wiring or installing this product. Moreover, be careful not to miswire. Improper wiring will result in damage to the internal circuitry of the product, and a possible cause of fire may also result.
  - Please use the proper speaker rating. Improper wiring will result in damage to the internal circuitry of the product, and a possible cause of fire may also result.
  - Request the installation and wiring be performed by a professional contractor. Otherwise, there is the possibility that fire, electric shock or falling from high places may result.
- CAUTION**
  - Do not install the product in a location where vibrations exceeding the specifications exist, or on any vehicles. Risk of product detaching and falling, causing damage or injury to a passer-by, etc. may result.

Contrary to Warnings and Cautions indicated in this document, product failure due to mishandling, disassembly, modifications or natural disasters, etc. is not covered by any Warranty. Moreover, avoid any applications outside those indicated in this document.

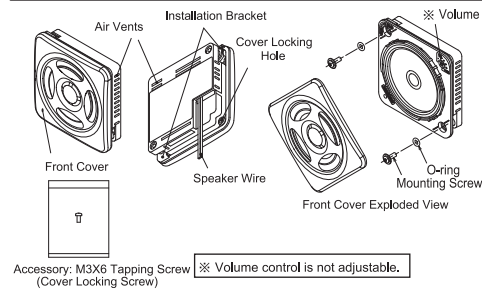
- PLEASE** Indicates something to observe before using this product. The disregard to this indication may lead to product malfunction or failure.
- NOTE** Notice regarding supplementary information or convenient explanation is indicated.

- PLEASE**
  - Do not use in an environment exposing strong radio waves or inductance noise. Noise may be induced from the speaker horn causing malfunction or failure.
  - Do not use in an environment where corrosive gas is present. Possible cause of failure may occur.
  - Use the recommended torque when attaching parts for installation, etc.
  - Do not misplace parts, such as the terminal cover or front plate, while performing maintenance or repair of the product to prevent possible damage.
  - When this product is used for security purposes, it should be inspected daily and it is recommended to use the product together with other security products in case a malfunction should occur.

### 2. Model Number Configuration



### 3. Part Names



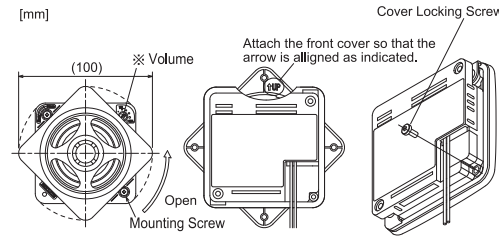
### 4. Installation

This product can be panel or wall mounted. Please attach in accordance with the procedure for mounting after removing the front cover.

#### 4-1. Front Cover

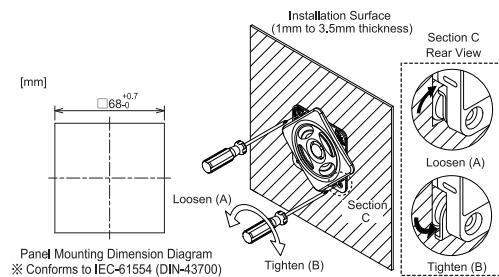
When installing this product, please open and close the front cover in the following manner.

- ① Turn the front cover in the counter clockwise direction 45 degrees.
    - ※ Assure there is ample rotation space available for the front cover when mounting.
  - ② When attaching for wall-mounting, pull the front cover forward to remove, then pull out the mounting screw and O-ring. (Refer to "3. Part Names" for the Front Cover Exploded View)
  - ③ Please attach the parts removed in steps ① and ② in the reverse order to reassemble. Attach the front cover so that the "UP" is on top. (Mounting Screw Recommended Torque: 0.3 N-m)
- Use the M3X6 tapping screw (Cover Locking Screw-included) indicated on the lower-right figure to fix the front cover. (Recommended Torque: 0.3 N-m)



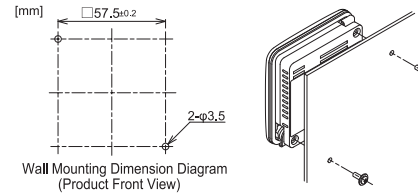
#### 4-2. Panel Mounting

- ① Please mount on a flat surface with a panel thickness of 1 mm to 3.5 mm for proper clamping. (Refer to the "Panel-mount Dimension Diagram")
- ② Rotate the front cover counter-clockwise 45 degrees, and loosen the mounting screws.
- ③ Check that the mounting bracket is in position (A) before inserting the product from the front, and secure it with the mounting screws, clamping the mounting nut to the rear of the mounting surface. (Recommended torque: 0.3 N-m)
- ④ Check that the product has been properly clamped before placing the front cover back on.



#### 4-3. Wall Mounting

- ① Please mount on a flat surface with a panel thickness of 1 mm to 3.5 mm for proper clamping. (Refer to the "Wall-Mount Dimension Diagram")
- ② Rotate the front cover counter-clockwise 45 degrees, and pull straight out to remove, then loosen and remove the mounting screws and O-ring.
- ③ Please align the front cover with the hole positions, inserting the product from the front; insert the mounting screws from the back panel and tighten. (Recommended torque: 0.7 N-m)
- ④ Check that the product has been properly clamped before placing the front cover back on.



#### WARNING

- When installing after wiring, be sure to disconnect the power before installing this product. Short-circuiting will result in damage to the internal circuitry of the product, and a possible cause of fire may also result.
- Request the installation and wiring be performed by a professional contractor. The failure to comply may result in the possibility of falling from high places.

#### CAUTION

- The clamping surface should be sufficient enough to tolerate the weight of the product. Moreover, do not install the product in a location where vibrations exceeding the specifications exist, or on any vehicles. Failure to comply may result in the prevention of the product detaching and falling, causing injury to a passer-by, etc.
- Both mounting screws should be attached with the recommended torque at any cost. Failure to comply may result in the prevention of the product detaching and falling, causing injury to a passer-by, etc.
- Request the installation and wiring be performed by a professional contractor. Also, both mounting screws for the speaker should be attached, using the recommended torque. Risk of product detaching and falling, causing damage or injury to a passer-by, etc. may result.
- Do not apply a heavy load to the lead wires. Possibility of electric shock, short-circuiting or product failure may occur.
- Do not turn the front cover beyond 45 degrees. Failure to comply may result in product damage.

#### PLEASE

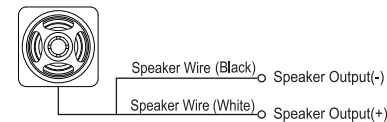
- Install the product on a flat surface with no uneven surfaces. Failure to comply will weaken its resistance to water and dust.
- If installing the product where vibrations exist, it is recommended to make periodic inspections to ensure the mounting screws are properly tightened.
- When installing in high places, choose a location which is accessible by a scaffold, ladder, etc. for repairs.
- Do not block the air vents when installing.
- Applying thread locking adhesive to the Cover locking screw may result in damage to the product.

#### NOTE

- Depending on the material quality and thickness of installation surface and volume, the product may resonate and cause an oscillating sound. Take countermeasure steps by reinforcing the mounting screws to reduce vibration.

### 5. Wiring

Connect the speaker to the output, noting the proper polarity when wiring them. Confirm the proper connections by referring to the operation manual of the corresponding product.



#### WARNING

- Be sure the power is disconnected before wiring or installing this product. Moreover, be careful to prevent mistakes. Short-circuiting will result in damage to the internal circuitry of the product, and a possible cause of fire may also result.
- Please use the proper speaker rating. Improper wiring will result in damage to the internal circuitry of the product, and a possible cause of fire may also result.

#### PLEASE

- To countermeasure against interference noise, make wiring as short as possible and use shielded wires whenever possible. In addition, separate any signal lines which pass along high voltage cables or is susceptible to receive induction noises. Interference may influence signal inputs and cause product malfunction.

### 6. Before Requesting Repair

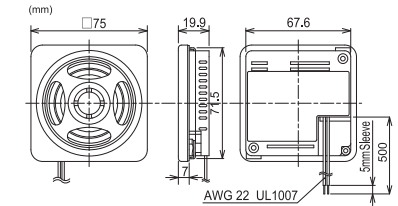
Problem	Where to Check
No Sound	Check the power of the connected product.
Sound is hard to hear	Check that the wiring is correct.
	Check the volume of the connected product. Check that the proper speaker impedance of the connected product is set.

- Even after proper installation and handling, if the product does not operate correctly, contact your PATLITE Sales Representative.

### 7. Specifications

Model	SPB-2E	
Rated Input	2W	
Impedance	8Ω ±15% (1200Hz 1V)	
Output Sound Level	87dB ±2 (1W, 1m) at 1200, 1500, 2000, 2500Hz *Panel Mount Installation	
Operating Temperature Range	-10 to 50°C	
Vibration Resistance	70.0 m/s <sup>2</sup> (X, Y and Z directions for 2 hrs each at 30Hz)	
Mass ±10%	100g	
Protection Rating	Panel Mount	IP54 (Upright Direction Only)
	Wall Mount	IP20

[Outer Dimensions]



- PATLITE Corporation disclaims all liability for any malfunction or damage occurring as a result of handling contrary to the instructions, cautions and warnings mentioned in this manual.
- Specifications may change without notice due to continual product improvement.

**PATLITE Corporation** G2J

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