



# HTL WARNING SIGN WIG WAG

Model: MV SSWW / RSWW

## Operation & Maintenance Manual



Version 1.0

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| Release / Change | Version | Release Date   |
|------------------|---------|----------------|
| Initial Release  | 1.0     | September 2024 |
|                  |         |                |
|                  |         |                |
|                  |         |                |

## Safety Instructions



**WARNING:** Ensure all safety instructions have been followed prior to servicing.



**WARNING:** Ensure that no items fall onto the lanes below at any time.



**CAUTION:** When the door/cover of the equipment is opened, please ensure it is fixed before performing next procedure. After finishing maintenance, ensure the door/cover is locked.



**CAUTION:** The LEDs on LED Module of the equipment are ESD (Electro-Static Discharge) sensitive. Take necessary precautions to prevent damage to the LED.

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## 1. Health and Safety

All personnel involved in carrying out the work must be aware of any site working regulations and required certification.

Before taking any installation or maintenance action, service personal must follow the above safe working practices:

- Only allow sufficiently experienced personnel to do maintenance.
- Provide sufficient illumination for the job, especially during non-daylight hours.
- Wear personal protective gear when working near or with energized parts.
- Use insulated tools and equipment when working near or with energized parts.
- Take measures to avoid inadvertent contact of conductive materials or equipment with energized parts of SSWW/RSWW

### **WARNING**

**The SSWW/RSWW is a 12 VDC device. Harding Traffic cannot guarantee that mains power may not have been introduced as part of the installation e.g. 230VAC: 12VDC Power Supply.**

**Service Personal must ensure that the system is suitably isolated before working on the SSWW/RSWW.**

### CAUTION – HEAVY EQUIPMENT

The SSWW/RSWW should be adequately supported during installation, replacement or maintenance. All lifting and moving jobs must be performed by mobile crane or other suitable lifting device.

## 2. General Overview

### 2.1. Sign Specifications

#### SSWW100 (100mm Lights)

|                            |           |
|----------------------------|-----------|
| <b>Static Sign Height:</b> | 1100mm    |
| <b>Static Sign Width:</b>  | 750mm     |
| <b>Cabinet Material:</b>   | Aluminium |

#### SSWW200 (200mm Lights)

|                            |           |
|----------------------------|-----------|
| <b>Static Sign Height:</b> | 1500mm    |
| <b>Static Sign Width:</b>  | 950mm     |
| <b>Cabinet Material:</b>   | Aluminium |

Regulatory Signs are subject to Road / Order Specifications (200mm Lights)

### 2.2. Battery Box Specifications

#### 60w Battery Box

|                            |              |
|----------------------------|--------------|
| <b>Cabinet height:</b>     | 415mm        |
| <b>Cabinet width:</b>      | 315mm        |
| <b>Cabinet thickness:</b>  | 170mm        |
| <b>Cabinet Material:</b>   | Polyester    |
| <b>IP Rating:</b>          | IP66         |
| <b>Maintenance method:</b> | Front Access |

#### 100w Battery Box

|                            |              |
|----------------------------|--------------|
| <b>Cabinet height:</b>     | 515mm        |
| <b>Cabinet width:</b>      | 415mm        |
| <b>Cabinet thickness:</b>  | 230mm        |
| <b>Cabinet Material:</b>   | Polyester    |
| <b>IP Rating:</b>          | IP66         |
| <b>Maintenance method:</b> | Front Access |

### 2.3. Amber Light Specifications

#### SSWW100 (100mm Lights)

|                            |             |
|----------------------------|-------------|
| <b>Light diameter:</b>     | 100mm       |
| <b>Cabinet Material:</b>   | PC          |
| <b>Maintenance method:</b> | Rear Access |
| <b>Visor Material:</b>     | PC          |

#### SSWW200 (200mm Lights)

|                            |             |
|----------------------------|-------------|
| <b>Light diameter:</b>     | 200mm       |
| <b>Cabinet Material:</b>   | PC          |
| <b>Maintenance method:</b> | Rear Access |
| <b>Visor Material:</b>     | Aluminium   |

## 2.4. Electrical Characteristics

|                             | SWW100 (100mm Lights) | SWW200 (200mm Lights) |
|-----------------------------|-----------------------|-----------------------|
| Power supply                | 12V DC                | 12V DC                |
| Power consumption (Max)*    | ?                     | ?                     |
| Power consumption (Average) | ?                     | ?                     |

## 3. Maintenance Guide

### 3.1. Maintenance Tool List

| Maintenance Tool List |                           |          |  |
|-----------------------|---------------------------|----------|--|
| Item                  | Tool                      | Quantity | Remarks  |
| 1.                    | Torx screwdriver          | 1        |    |
| 2.                    | Long Phillips screwdriver | 1        |    |
| 3.                    | Slotted screwdriver       | 1        |   |
| 4.                    | Multimeter                | 1        |  |
| 5                     | Lock Key Triangle         | 1        |  |

### 3.2. Preventative Maintenance

To ensure the continued optimal performance and longevity of your SSWW/RSWW in challenging environments, regular preventive maintenance is recommended. By following these guidelines, you can mitigate potential issues and extend the lifespan of your product:

**Cleaning Schedule:** Establish a routine cleaning schedule based on the local conditions and usage. While the standard recommendation is maintenance every six months, consider more frequent cleaning if the environment is particularly harsh.

**Cabinet Maintenance:**

- a. Employ a pressure cleaner to clean the rear of the cabinet, removing accumulated dirt and grime.
- b. Regularly check the cabinet's interior. Evaluate the operational status and address any anomalies promptly.

**Record Keeping:** Maintain a record of maintenance activities, including dates, procedures performed, and observations made. This documentation can help track the product's health and guide future maintenance decisions.

**Professional Inspection:** Periodically, consider engaging professional technicians to conduct a thorough inspection of the SSWW. Their expertise can identify potential issues that might not be apparent during routine maintenance.

| Faults  | Action  |
|---|---|
| Check for marks, scratches, dirt, or cracks                                     | Use an appropriate cleaning solution to remove any visible marks or dirt.                                     |
| Verify if the lights are receiving on/off commands from the control/battery box | If not, report the fault to Harding Traffic Ltd.  |
| Ensure door locks are secured and check for any broken parts                    | If loose or broken, use the correct key to lock it securely by turning clockwise or replace any broken parts. |
| Check that all cable glands are securely fastened.                              | If any are loose, press the gland back in place and ensure they are securely connected.                       |
| Inspect the solar panel for dirt or debris                                      | Clean the panel using a suitable cleaning solution if it appears dirty or obstructed.                         |

### 3.3. Cabinet Maintenance

Because of its ability to withstand extremely harsh environments, the SSWW/RSWW requires minimal maintenance. However, regular maintenance can help prolong the product's lifespan and ensure optimal display performance.

The suggested maintenance interval is every six months, although this duration can be adapted based on the local conditions.

Maintenance tool:

- Gentle non-woven fabric or a soft brush
  - Neutral cleaning solution (non-abrasive)
- Basic maintenance equipment

Recommended Maintenance Procedure

- 1) Moisten a cloth with the cleaning solution, then use it to gently wipe away dust from the display surface. Rinse the surface with water afterwards.  
Following the SSWW wash, open the door to inspect and assess the operational status within the cabinet.

## 4. Troubleshooting

| Item                | Description  | Solution   |
|---------------------|--|--|
| Signs not operating | <b>Sign is not powering on</b>                               | <ul style="list-style-type: none"> <li>• Double-check the battery connections and fuse holders.</li> <li>• Ensure the solar panel is receiving adequate sunlight.</li> <li>• Verify the integrity of all wiring and connectors.</li> </ul> |
|                     | <b>The slave sign is not activating with the master sign</b> | <ul style="list-style-type: none"> <li>• Ensure the antenna is securely connected and the radio module is operational.</li> </ul>  |

In all other cases, please contact Harding Traffic on 0800 427 346 or at [service@hardingtraffic.co.nz](mailto:service@hardingtraffic.co.nz)