



HTL WIG WAG CHILDREN CROSSING SCHOOL SIGN

Model: MV SZSVS

Operation

&

Maintenance Manual



Version 1.0

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Release / Change	Version	Release Date
Initial Release	1.0	October 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.

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 SZSWW

WARNING

The SZSWW 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 SZSWW.

CAUTION – HEAVY EQUIPMENT

The SZSWW 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

Static Sign Height:	1100mm
Static Sign Width:	750mm
Cabinet Material:	Aluminium

2.2. Battery Box Specifications

60w Battery Box		100w Battery Box	
Cabinet height:	415mm	Cabinet height:	515mm
Cabinet width:	315mm	Cabinet width:	415mm
Cabinet thickness:	170mm	Cabinet thickness:	230mm
Cabinet Material:	Polyester	Cabinet Material:	Polyester
IP Rating:	IP66	IP Rating:	IP66
Maintenance method:	Front Access	Maintenance method:	Front Access

2.3. Amber Light Specifications






Light diameter:	100mm
Cabinet Material:	PC
Maintenance method:	Rear Access
Visor Material:	PC

2.4. Electrical Characteristics

Power supply	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 SZSWW 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.
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3.3. Cabinet Maintenance

Because of its ability to withstand extremely harsh environments, the SZSWW 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 SZSWW wash, open the door to inspect and assess the operational status within the cabinet.

4. Troubleshooting

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

In all other cases, please contact Harding Traffic on 0800 427 346 or at service@hardingtraffic.co.nz