



HTL STATIC SIGN WIG WAG

Model: MV SSWW

Installation Guide



Index

- Introduction 3
- Installation Instructions 3
 - Step 1: Prepare for Installation 3
 - Step 2: Positioning the Sign on the Pole 3
 - Step 3: Drilling the Pole for Cable Routing 3
 - Step 4: Installing the Solar Panel 4
 - Step 5: Installing the Solar Cable Connector 4
 - Step 6: Installing the Battery / Control Box 4
 - Step 7: Mounting the Pole into the Ground Socket 4
 - Step 8: Installing the Batteries 5
 - Step 9: Installing the Sun Shields / Sun Visors 5
 - Step 10: Final Connections and Powering Up 5
- Installation View 6
- Supplied Contents (per sign) 6
- Images for reference 7
 - Solar panel Options 7
 - Inside view examples of “Master” Battery/Control Box 7
 - Inside view examples of “Slave” Battery/Control Box 8
- Troubleshooting 8
 - Signs not Working 8

Introduction



Stay ahead of potential hazards with our cutting-edge Static Sign Wig Wags, designed to alert drivers of changes and warnings up the road. These highly visible, flashing signals are ideal for construction zones, cattle crossing, school crossings, and any area where dynamic traffic management is critical.

With bright LED lights and a durable, weather-resistant design, our wig-wag signs ensure reliable operation in all conditions. Easy to install, they provide a clear and immediate warning, helping to reduce accidents and keep traffic flowing smoothly.

These signs can be activated by push button, remote control, sensors, or radar, and are fully customisable to suit the specific requirements of each location.

Installation Instructions

Step 1: Prepare for Installation

1. Lay out all the components and ensure all necessary parts are present.
2. It is often easier to build the sign to the pole while on the ground and then lift it into the socket, but the installer can choose their preferred method.

Step 2: Positioning the Sign on the Pole

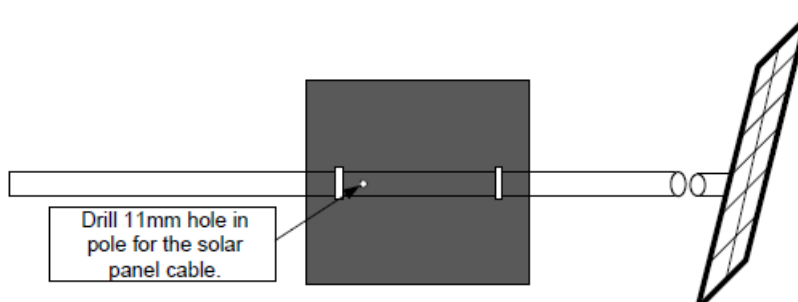
1. Place the sign face down on a flat surface, using protective materials to avoid damage.
2. Measure **3400mm** from the base of the pole; this will be the bottom position for the sign. Measure **2400mm** from ground level if the pole is already in place.
3. Secure the sign to the pole using the supplied **114ARC brackets**.



- **Tip:** Use copper grease on the nuts to prevent them from binding when tightening.

Step 3: Drilling the Pole for Cable Routing

1. Drill an **11mm hole** just above the bottom **ARC bracket**.
2. Insert a draw cable through this hole and push it up towards the top of the pole.

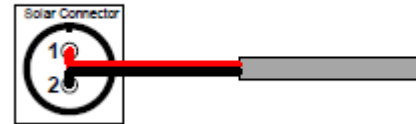


Step 4: Installing the Solar Panel

1. Attach the solar panel cable to the draw cable and gently pull it down inside the pole, out through the drilled hole.
2. Fit the solar panel into the top of the pole, continuing to pull the cable through the hole as you go.
3. **Orientation:** Ensure the solar panel is facing **North** to optimize energy capture. Secure it using **Tek screws**.

Step 5: Installing the Solar Cable Connector

1. **Connect the supplied 2-Pin Connector** to the solar cable.
 - Red wire to **PIN 1**
 - Black wire to **PIN 2**
2. Neatly feed any excess cable back into the pole and secure it with cable ties.



Step 6: Installing the Battery / Control Box

1. Fit the "Battery" box behind the sign using the supplied **114ARC brackets**.
2. The base of the box should be approximately 4.2 meters from the bottom of the pole (3.2 meters from the ground once inserted into the socket)
 - **Note:** The height of the box may vary depending on cable fit and sign.
3. Screw the Antenna provided to the connector on the top of the battery box.



4. Connect the 2 Pin Connector from the solar panel cable to the corresponding solar panel connector at the back of the battery box.
5. Connect the 3 pin connector for the lights on the static sign, ensure that this is connected and secure to the corresponding solar panel connector at the back of the battery box.



Step 7: Mounting the Pole into the Ground Socket

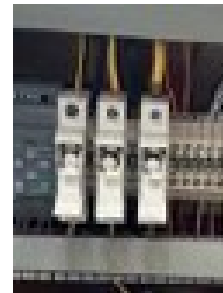
1. Carefully lift the assembled pole (with the sign attached) and insert it into the 1m ground socket.
2. Secure the pole firmly in place.

Step 8: Installing the Batteries

1. Ensure that all battery and PV fuses are open before starting.
2. Place the batteries into the sign battery box, ensuring they sit comfortably on the back rail.
3. Wire the **batteries** inside the sign.
 - **Yellow Wire = +VCC**
 - **Black Wire = Ground**

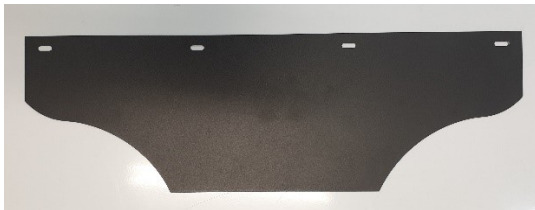


4. After connecting the battery cabling, Insert all fuses into the fuse holders;
 - Close the **Battery Fuse holder** first
 - Then close the **PV (Solar) Fuse holder**
 - Then close the **Sign Fuse holder**



Step 9: Installing the Sun Shields / Sun Visors

1. The sun visors can be installed to prevent direct sunlight from striking the lens.
2. Attach the aluminium sun visors to the lights flange holes using the provided M6 x 8mm screws.

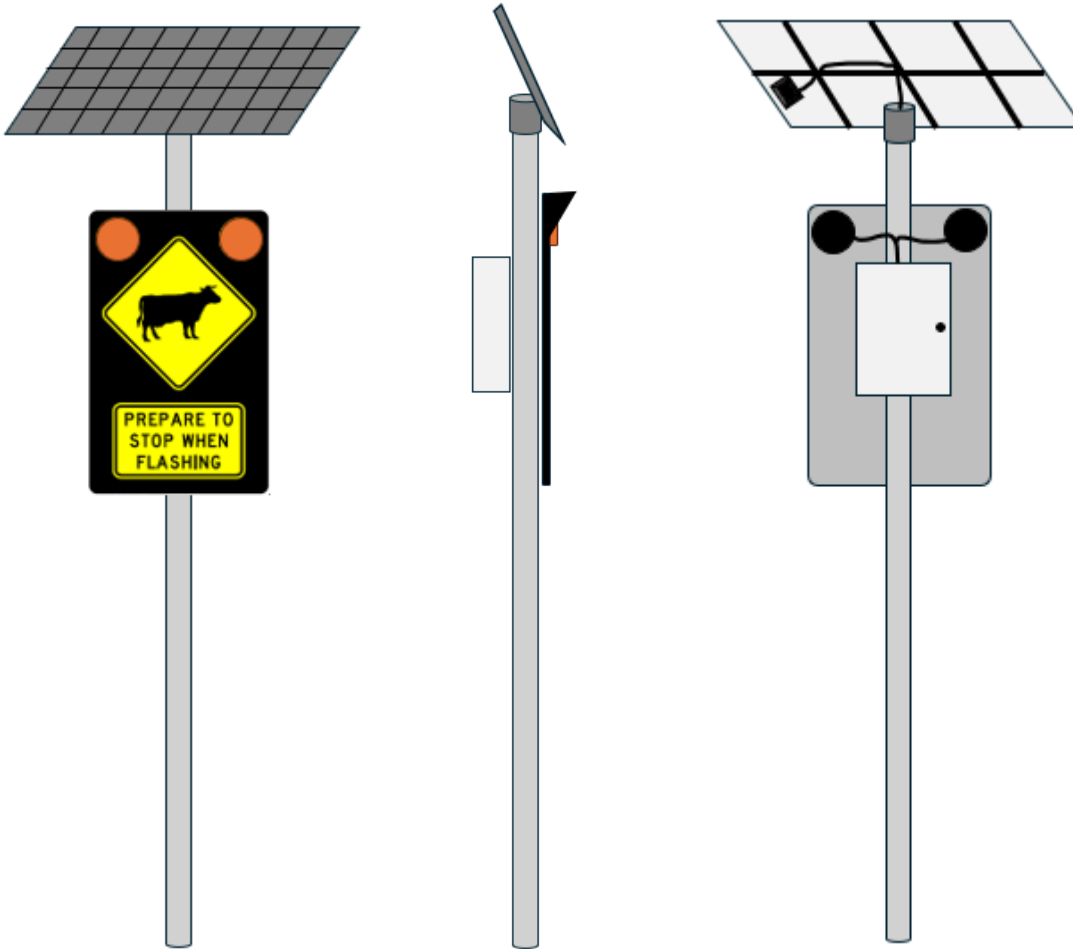


Step 10: Final Connections and Powering Up

1. Once everything is properly connected, the sign should power up and the lights inside the battery box would be on indicating it is operational.

Please note: It's important to follow all safety guidelines and instructions provided with the equipment during the installation process.

Installation View



Front View

Side View

Back View

Supplied Contents (per sign)

- 1 x Static Warning Sign
- 1 x Pole
- 1 x Socket
- 3 x 114ARC Brackets for the sign
- 1 x Light Visor per light
- 1 x Solar Panel
- 1 x Solar panel cable connector
- 1 x Battery Box / Control Box & Key
- 1 x Antenna (if mode of operation requires it)
- Fuses for Battery, PV (Solar) and Sign
- Battery (Qty subject to order specs)
- 2 x 114ARC Brackets for battery box

Images for reference

Solar panel Options



60w Solar Panel & Frame



100w Solar Panel & Frame



200w Solar Panel & Frame

Inside view examples of "Master" Battery/Control Box



Sign Activated via remote control



Sign activated via Push Button on Pole



Sign activated via Radar



Sign activated via Loop Detector

Inside view examples of “Slave” Battery/Control Box



Sign Activated via remote control



Sign activated via Radar



Sign activated via Loop Detector

Troubleshooting

Signs not Working

Signs not operating: Check if the power light is illuminated.

If the sign does not power up:

- Double-check the battery connections and fuse holders.
- Ensure the solar panel is receiving adequate sunlight.
- Verify the integrity of all wiring and connectors.

If the sign does not communicate with the central control system:

- Ensure the antenna is securely connected and the radio module is operational.

If the issue persists, please contact Harding Traffic for support. 0800 427 346