

HTL WIG WAG CHILDREN CROSSING SCHOOL SIGN

Model: MV SZSWW

Installation Guide





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Introduction



Our Wig Wag Children Crossing School Sign is designed to provide a safer environment around schools for children, parents and teachers by temporarily reducing the speed limit during high-risk periods i.e. school start & end times and other special school related events.

The sign incorporates flashing wig wags and (LED) components which are activated at programmed times, making the sign more effective by enhancing driver awareness.

Combined solar power and wireless activation means the signs are self-sufficient and don't incur any expensive installation costs generally associated with power and communication line trenching and routing.

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

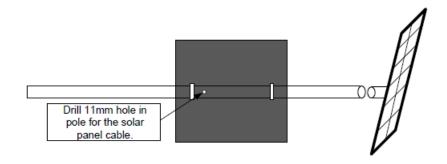
- 1. Place the sign face down on a flat surface, using protective materials to avoid damage.
- 2. Measure **3400mm** from the base of the pole; this will be the bottom position for the sign. Measure **2400mm** from ground level if the pole is already in place.
- 3. Secure the sign to the pole using the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









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. (Only applicable on a Master / Slave System setup)





- 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: Activating options

 Depending on the order requirements, the operational times can be scheduled using either the SmartSign system or the HTL Local Sign Controller. Please refer to the respective manuals for detailed instructions.

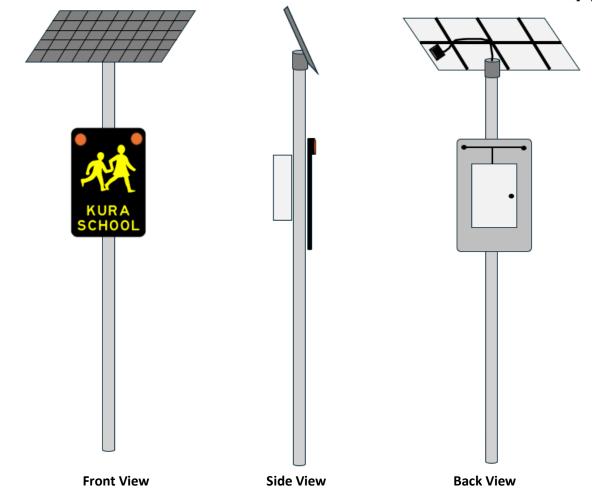
Step 10: Final Connections and Powering Up

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





Supplied Contents (per sign)

- 1 x Kura School Warning Sign
- 1 x Pole
- 1 x Socket
- 2 x 114ARC Brackets for the sign
- 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 SmartSign



Sign Activated via Local Controller

Inside view examples of "Slave" Battery/Control Box



Sign Activated via SmartSign



Sign Activated via Local Controller

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