HTL PUNCHED CURVE WARNING SIGN (PCWS)

Model: MV PCWS

Installation Guide

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Introduction

Harding Traffic's Curve Warning Signs are a NZTA P32 compliant Early Warning Sign (EWS). The Curve Warning EWS aims to provide advanced warning to drivers of an approaching bend, helping to reduce vehicle speeds, improve driver behaviour and provide a safer environment for other road users, such as cyclists and pedestrians.

Our Curve Warning Sign unit is designed to detect vehicle speeds and display a left or right curved arrow according to the sing location. If the vehicle is faster than the programmed threshold, the sign will automatically display the words SLOW DOWN.

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.

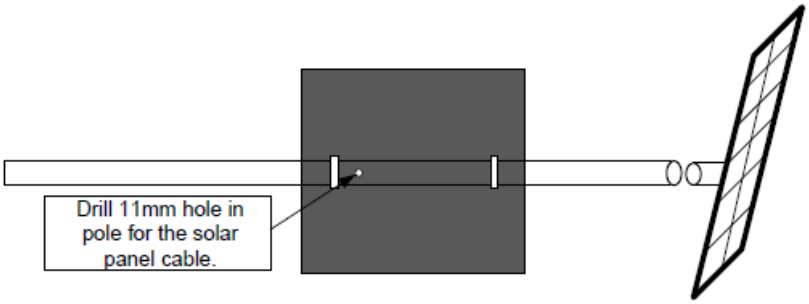
Step 2: Positioning the Sign on the Pole

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.

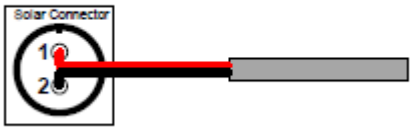


Step 4: Installing the Solar Panel

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: Connecting the Solar Cable

1. Connect the 2 Pin Connector from the solar panel cable to the corresponding solar panel connector at the back of the sign

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, ensuring they sit comfortably on the back rail.
3. Wire the **batteries** inside the sign.
   - **Yellow Wire** = **+VCC**
   - **Black Wire** = **Ground**

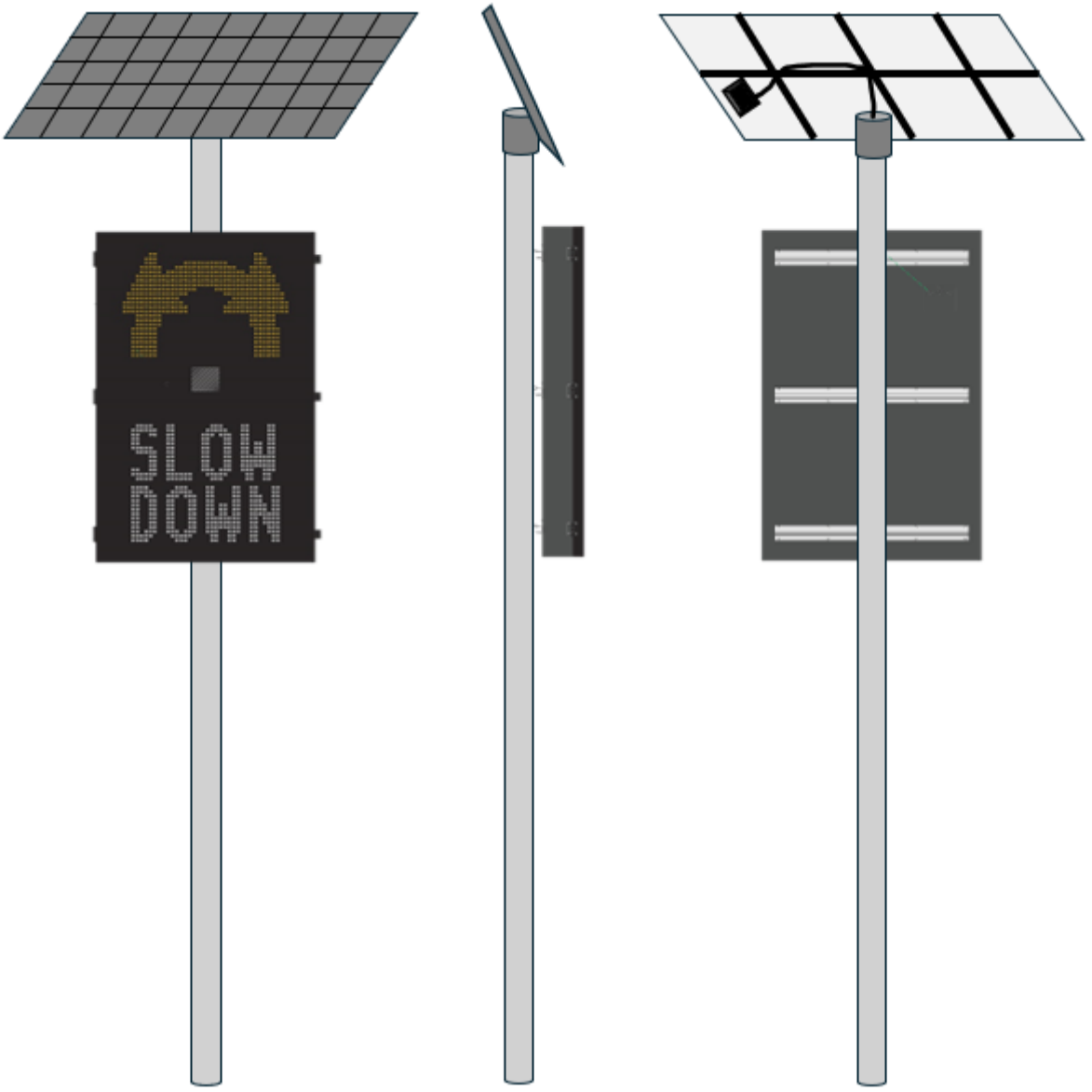
4. After connecting the battery cabling, Insert all fuses into the fuse holders;
   - Close the **Battery Fuse holder** first
   - Then close the **PV (Solar) Fuse holder**

Step 9: Final Connections and Powering Up

1. Once everything is properly connected, the sign should power up and the lights inside the sign 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 Punched Curve Warning Sign
- 1 x Pole
- 1 x Socket
- 2 x 114ARC Brackets for the Punched Curve Warning Sign
- 1 x Solar Panel
- 1 x Solar panel cable connector
- 1 x Key Set
- 1 x Antenna (if mode of operation requires it)
- Fuses for Battery, PV (Solar)
- Battery (Qty subject to order specs)

Images for reference

Solar panel Options

60w Solar Panel & Frame

100w Solar Panel & Frame

200w Solar Panel & Frame

Inside view examples of Sign

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