

**Tonick Watering**  
**Programmer/Tester for TW/CIC1+ Decoders**  
**DETAILED INSTRUCTIONS.**

**Connecting:**

To connect a wire to the programmer, press the top of the terminal and feed the bared wire into the hole at the front. Releasing the terminal will grip the wire. Connect the decoder's *red* wire to the *red* terminal marked '*24v A.C.*' Connect the decoder's *green* wire to the *green* terminal marked '*24v A.C.*' Connect the decoder's *blue* wire to the *blue* terminal marked '*SIGNAL*'. Connect the decoder's *solenoid output* wires to the two terminals marked '*SOLENOID*'. (Polarity is unimportant). With the Tonick multi-solenoid decoders, the wires are in pairs: Violet=channel 1, Brown=channel 2, Yellow=channel 3 and Grey=channel 4. Please ensure the unused wires are not touching each other.

**Programming:**

With the desired pair of solenoid wires connected, press the grey '*Raise*' or '*Lower*' buttons to alter the red displays to the address to be programmed and the zone number. Holding the button down will cause the numbers to change more rapidly. The left most digit indicates the zone (1 or 2), the right two digits the station number (0-99). E.g. 123 means zone 1 station 23 . 234 means zone 2 station 34 .

When the desired address and zone is displayed, press the red '*Program*' button. After around three seconds either the '*Pass*' (green) or '*Fail*' (red) lamps will illuminate. If passed, the decoder will have been programmed and tested for the correct switching response at that address and zone.

When programming Tonick multi-solenoid decoders, change over the solenoid wires and repeat for the other solenoid outputs. The indelible pen supplied can be used to write the address and zone number on the decoder's red end cap, next to the solenoid wires.

**Notes on programming:**

The Photron CIC1+ decoders cannot be programmed using this method. The red '*Fail*' light will illuminate but they will not be damaged.

If during programming, the displays dim then go back to zero, there is a shorted solenoid output. Check the unused outputs of the Tonick multi-solenoid decoder. Make sure no wires are touching.

Address 100 or 200 (corresponding to station number 00) cannot be programmed into the Tonick decoders.

All the outputs in a Tonick multi-solenoid decoder are independent of each other. They may be in different zones if required and may be set to any value between 1 and 99.

Programming identical station numbers and zones into a Tonick multi-solenoid decoder is permitted. All will respond to the 'on' command at that address.

The older CIC decoders for the CIC1 and CIC4 controllers cannot be tested using this CIC1+ programmer/tester. Use the Tonick CIC decoder/tester.

**Testing:**

Both Photron CIC1+ and Tonick decoders can be tested . The former can have their switch settings verified.

With the decoder connected, press the green '*Test*' button. After a few seconds pause, all possible addresses in zone 11 then zone 2 will be cycled in quick succession until one responds. The displays will stop, showing the address and zone programmed (or set on the switches) and the green '*Pass*' lamp will illuminate.

If there is no response from the decoder, the displays will show 299 and the red '*Fail*' lamp will illuminate.

If a Tonick decoder is attached and the display shows 100 with the '*Pass*' lamp illuminated, it means the decoder output is working but has not yet been programmed with an address.

If, during the testing, the displays dim then go back to zero, there is a shorted solenoid output. Check the unused outputs of the Tonick multi-solenoid decoder. Make sure no wires are touching.

**For further help:** Contact the help desk on 01269-832325 **Tonick Watering, Coetir Bach Farm, Maesybont, Cross Hands, Llanelli, Carmarthenshire. SA14 7ST**

**Tonick Watering  
Programmer/Tester for TW/CIC1+ Decoders  
QUICK INSTRUCTIONS.**

**Connecting:**

Press the top of each terminal and feed the bared wire into the hole at the front. Releasing the terminal will grip the wire.

*Red* wire to the *red* terminal marked '*24v A.C.*'

*Green* wire to the *green* terminal marked '*24v A.C.*'

*Blue* wire to the *blue* terminal marked '*SIGNAL*'

*Solenoid output* wires to the two terminals marked '*SOLENOID*'. Polarity is unimportant.

Program each output of a Tonick multi-solenoid in turn. Ensure any unused wires are not touching each other.

**Programming:**

Press the grey '*Raise*' or '*Lower*' buttons to alter the red displays to the address to be programmed. (Holding the button down will cause the numbers to change more rapidly.) The left most display is the zone (1 or 2). The two rightmost displays are the station number (1-99); e.g. 234 = zone 2, station 34

Press the red '*Program*' button. After three seconds either the '*Pass*' (green) or '*Fail*' (red) lamps will illuminate. If passed, the decoder will have been programmed and tested for the correct switching response at that station number and zone.

**Testing:**

Both Photron CIC1+ and Tonick decoders can be tested. The former can have their switch settings verified. Older CIC decoders (CIC1 and CIC4) will not respond properly to this CIC1+ tester. Use the alternative Tonick CIC tester.

Press the green '*Test*' button. After a pause of some 3 seconds, all possible station numbers in both zones will be cycled in quick succession until one responds. The displays will stop showing the station number and zone programmed (or set on the switches) and the green '*Pass*' lamp will illuminate.

If there is no response, the displays will show 299 and the red '*Fail*' lamp will illuminate.

If a Tonick decoder is attached and the display shows 100 with the '*Pass*' lamp illuminated, it means the decoder output is working but has not been programmed with an address yet.

**More detailed instructions overleaf.**