

Tonick Watering Ltd.
Programmer for TW/TORO Decoders
Tester for
TW/TORO, Toro SC3000/D and EDIL Decoders
DETAILED INSTRUCTIONS.

IMPORTANT. Tonick TW/TORO decoders *cannot* be programmed *or* tested using TORO or EDIL's own test boxes.

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 *black* wire to the *black* terminal marked '24v A.C.' Connect the decoder's *green* wire to the *green* terminal marked 'SIGNAL' Connect the decoder's *solenoid output* wires to the two terminals coloured *violet* and *brown* marked 'SOLENOID'. Which way round is unimportant. With the Tonick multi-solenoid decoders, the wires are in pairs: violet/black=channel 1, yellow/black=channel 2, grey/black=channel 3 and orange/black=channel 4. Please ensure the unused solenoid output wires are not touching each other. However all the black wires on a Tonick TW/TORO are internally connected, so may be gathered together if required..

Programming:

Please ensure the decoder is connected for a minimum of 15 seconds before pressing the *Prog.* button

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. Holding the button down will cause the numbers to change more rapidly.

When the desired address is displayed, press the red '*Program*' button. After around five to eight 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.

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 on the decoder's red end cap, next to the solenoid wires.

Notes on programming:

The Toro SC3000/D and EDIL decoders cannot be programmed using this method. The red '*Fail*' light will illuminate but they will not be damaged. They can however be tested.

Please ensure the decoder is connected for a minimum of 15 seconds before pressing the *Prog.* button or the programming will fail. If you get a fail wait 15 seconds then try again.

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 000 cannot be programmed into the Tonick decoders.

Programming identical addresses into a Tonick multi-solenoid decoder is not permitted. Only one of the channels will respond to the '*on*' command at that address. Attempting a duplicate address may result in a *fail*.

All the addresses in a Tonick multi-solenoid decoder are totally independent of each other and may be set to any value between 1 and 99 as long as they are not duplicated.

Testing:

All Toro SC3000/D, EDIL and Tonick TW/TORO decoders can be tested .

With the decoder connected, press the green '*Test*' button. All possible addresses will be cycled as fast as possible until one responds. The displays will then stop, showing the address programmed and the green '*Pass*' lamp will illuminate. If there is no response from the decoder, the displays will show 99 and the red '*Fail*' lamp will illuminate.

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

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

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Programmer for TW/TORO Decoders
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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.*'

Black wire to the *black* terminal marked '*24v A.C.*'

Green wire to the *green* terminal marked '*SIGNAL*'

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

Ensure any unused wires are not touching each other.

Programming:

Wait 15 at least seconds after connecting the decoder before pressing the red '*Program*' button.

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.)

Press the red '*Program*' button. After five to eight 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.

Testing:

All Tonick, Toro and EDIL decoders can be tested .

Press the green '*Test*' button. All possible addresses will be cycled as quickly as possible until one responds. The displays will stop showing the address programmed and the green '*Pass*' lamp will illuminate.

If there is no response, the displays will show 99 and the red '*Fail*' lamp will illuminate.

More detailed instruction overleaf.