

Tx10 User Information

Tx10 is a simple hand-held wireless transmitter intended to control one model railway locomotive engine. It has a large knob for forward/reverse throttle control and a push button for receiver binding. Tx10 is ideal as a basic, entry-level transmitter for modellers who don't need a more complex controller. The bind push button can also be used to operate a whistle or horn if you have a sound card.

Tx10 cannot be used for Deltang receiver programming. If you need to program a receiver, a Prog3 or Prog4 will be required.



Technology

- Tx10 uses the 2.4GHz band which requires no frequency channel control and is very resilient against interference. All radio frequency components are contained on the internal **Tx2** module. There are no user adjustable parts on this module and it should not be modified.
- Tx10 is compatible with all DSM2 receivers; this includes all Deltang receivers.
- Any number of receivers can be bound to your Tx10 but only one should normally be switched on at a time to operate them independently.
- Range is suitable for indoors and small outdoor sites; the outdoor free-air range to a Deltang receiver is at least 50m. Range indoors is affected by building construction materials, furniture, people and receiver installation.
- The throttle control knob and bind push button action are transmitted as separate R/C 'channels' which must match the receiver configuration:

throttle: channel 1
bind button: channel 5

Battery

The maximum working voltage of the internal electronics module is 10V and there is a protection diode wired in series with the battery lead. This allows the battery voltage to be up to 10.7V. If the battery voltage is above this value, the internal regulator will shut down and the transmitter will not operate.



To replace the battery:

- Make sure that the power on/off button is off (up) before adding or removing a battery.
- Remove the lid at the bottom rear of the case by sliding it downwards. When Tx10 is new this will require a bit of effort to slide it past the retaining 'click'. The image at the right shows the case rear with the battery lid removed.
- Remove the battery from the compartment and pull the battery clip off the terminals. Replace the clip on the new battery which will only fit one way round. TAKE CARE, if force is needed, the connector is probably the wrong way round.
- Replace the battery cover by sliding it up from the bottom making sure that the retaining tab goes under the case rear. The battery is held in place with a piece of foam attached to the cover and you will feel some resistance as the cover is pushed down onto the battery.

On / Off Push Button

The LED lights continuously when the transmitter is on and flashes when Tx10 is in bind mode (see below). It is best to switch the transmitter on before the receiver. If a receiver is switched on with Tx10 off, it is likely to enter bind mode with rapid flashing of the LED on the receiver board. If you did not intend to bind, switch the receiver off, then switch Tx10 on followed by the receiver.

Speed / Throttle Knob

Off/Stop is in the centre of rotation when the white dot is pointing toward the top of the transmitter. You will feel a 'click' as the knob is centred. Rotating the knob to the right (clockwise) should move your loco forwards. If it goes in reverse, you need to swap the two wires connected to the motor in your loco.

Bind Button

If a receiver has not previously been bound, it has to be 'paired' with the transmitter. Binding is only required once per receiver.

1. Put your receiver into Bind mode (if a Deltang Rx4 or Rx6 receiver, switch it on and wait for the LED to flash fast).
2. Press and hold the Bind push-button on the transmitter.
3. Switch the transmitter on by pushing the Power button and then release the Bind button.
4. Binding is complete when the receiver LED stops flashing.

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