RC Trains RCT-Tx24 Transmitter

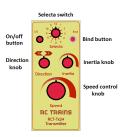
Thank you for buying a **RC Trains RCT-Tx24** transmitter. This guide aims to get you started. There is more detailed information on the **RC Trains** website.

Getting started

Inserting the battery

You will need a 9v PP3 battery. Turn over the transmitter and slide out the cover of the battery compartment. Connect the battery to the battery clip and replace the cover.

A tour of the transmitter



On/off switch - *Illuminated push-push switch*. The LED shines steadily during normal operation; it flashes once a second during the binding process; it flickers rapidly while inertia control is in operation (see below) and it flashes erratically when the battery is depleted. It also flashes to guide and confirm **additional functions** (see below).

Bind button - Push button. After a receiver has been put into 'bind mode' (see receiver instructions), the Bind button is held down while the transmitter is switched on. The button is then released and the LED on the on/off switch will flash regularly in unison with the receiver LED. When the LED remains on steadily, the bind process is complete. During normal operation of the transmitter, the bind button can be used to control accessories through Channel 5 (see also Additional functions)

Loco Selecta switch - 12-position rotary switch. After a receiver has been bound to a position on the switch, the transmitter will control that receiver whenever the switch is in that position. If the switch is moved to a different position while controlling a loco, the loco responding to the first position on the switch will continue at the same speed and in the same direction until the Loco Selecta switch is turned back to that loco's position.



Inertia Control knob - Rotary potentiometer. The further the knob is turned to the right, the more slowly the loco will increase and decrease its speed. The LED will flicker while the Speed Control is responding to the inertia setting and will stay on steadily once the loco has reached its final speed or come to a halt. (see also Additional functions)

Direction knob - Rotary potentiometer (centre off). The direction knob will change the direction of locos when used with receivers which are programmed to be 'low-off' or when used with live steam locos (with the reverser connected to a servo on Channel 3). When used with 'centre-off' receivers, the speed knob controls both speed and direction and so the direction knob can be used to control accessories on Channel 3.

Speed control knob - Rotary potentiometer with 300° of rotation and central 'click'. With 'centre off' receivers, the knob controls speed and direction, with 'low off' receivers, the knob controls speed only - the direction switch being used to control direction. RCT-Rx65b receivers can be programmed for 'low off' or 'centre off' using paperclip settings (see the RCT website Support section or the RCT-Rx65b guidance leaflet).

Additional functions

The default function of the *Inertia Control* knob is to control inertia on the *Speed Control* (see above), however, this knob can be reprogrammed to control Channel 5 or Channel 4, as follows:

- Hold down the Bind button while the Tx is being switched on and the Tx will enter Bind mode (see Bind button above).
- Press the Bind button for less than 20 seconds while the Tx is controlling a loco and it will normally control Channel 5 (see below).
- Hold down the Bind button for 20 seconds or more within the first 60s of turning on the Tx and it will perform Calibration. (see below)
- Press the Bind button for 20 seconds or more after the first 60 seconds of turning on the Tx and it will change the function of the Inertia Control knob.
 - 1. Turn on the RCT-Tx24 on and wait 60+ seconds
 - 2. Now press and hold the Bind button.
 - Wait 20 s until the LED goes out for 2 seconds. It will then come on for 3 seconds. Release in this time to reprogram the *Inertia Control* knob to control Channel 4

OR

4. Wait until the LED goes off and stays off

RC Trains RCT-Tx24 Transmitter

 Now release the *Bind button* to reprogram the *Inertia Control* knob to control Channel 5.

Repeat steps 1 to 3 to revert to normal Inertia control.

If the *Inertia Control* knob is being used for inertia, the *Bind button* will control Channel 5 when pressed for less than 20 seconds

If the *Inertia Control* knob has been reprogrammed for Channel 4, the *Bind button* controls Channel 5 when pressed for less than 20 seconds.

If the *Inertia Control* knob has been reprogrammed to control Channel 5, the *Bind button* has no effect on Channel 5 but is still used for binding and reprogramming the *Inertia Control* knob functions.

Programming RCT receivers with the RCT-Tx24

If the *Inertia Control* knob has been reprogrammed to control Channel 4 as above, the *RCT-Tx24* can reprogram settings in all *RCT* and some *Deltang* receivers. However, there is a risk of unintended outcomes and so take care. If a receiver is put into programming mode by mistake, turn off the receiver and centre the *Loco Selecta* and *Inertia Control* knobs before turning the receiver back on. *Paperclip settings* can be used to return a receiver to its default (factory) settings (see the documentation which came with your receiver).

To put the RCT-Tx24 into programming mode:

- Program the *Inertia Control* knob to control Channel 4 (as above).
- Turn off the RCT-Tx24
- 3. Rotate the *Loco Selecta* and the *Inertia Control* knobs fully left or right (ie not centred).
- 4. Centre the Direction knob.
- Put the Speed Control knob in the central 'off' position.
- 6. Turn on the RCT-Tx24

To reprogram the receiver

- Turn on a receiver which has previously been bound to the RCT-Tx24. The receiver LED should flash rapidly within a few seconds.
- Centre the Loco Selecta and the Inertia Control) knobs
- Use the chart on the *Deltang* website to determine the code which needs to be entered (for more information see my Blog post on programming receivers -

http://riksrailway.blogspot.com/2015/11/programin g-deltang-receivers.html)



- Move the *Direction* knob to the left and centre again to ADVANCE the number of flashes on the Receiver LED to match those at particular levels on the chart
- Move the *Direction* knob to the right and centre again to ACCEPT the flashes for that particular level in the chart

NOTE: This may sound baffling at first, but reading through my Blog posting and watching the associated video should make it a lot clearer. Once you have understood the basic principles, this guide should hopefully be the only reminder you will need.

To disable programming capability:

Reprogram the *Inertia Control* knob to control Channel 5 or Inertia as described above.

Calibration

The RCT-Tx24 is calibrated before despatch, but very occasionally it might need recalibration. For example, the Speed Control knob clicks at its central position and when it is used with 'centre off' receivers the 'click' on the Tx needs to match the 'off' position in receivers. The 12-way Loco Selecta switch can also be calibrated so it associates the same value for each position as other Tx22/24 transmitters.

To recalibrate your RCT-Tx24

- Turn the *Inertia Control* knob fully anti-clockwise (left) so it has no effect on the speed control.
- 2. Centre the Speed Control Knob (to its click position)
- Turn the Loco Selecta switch to position 6 (ie the 6 o'clock position (pointing downwards)).
- 4. Turn on your *RCT-Tx24* and the LED will come on steadily.
- 5. Within 60 seconds, press and hold the Bind button
- Keep the Bind button held down for about 20 seconds until the LED goes off. The Speed Control knob should now be calibrated.
- 7. Release the *Bind button* now if only the *Speed Control* needs recalibration, otherwise
- 8. Continue holding the *Bind button* down to recalibrate the *Loco Selecta* switch
- 9. The LED will come on for 3 seconds then will go off again
- Release the Bind button and the Loco Selecta switch should now be recalibrated and the LED will come back on.