

Remote Control Systems

2.4 Ghz RADIO CONTROL

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TITAN-TRACKSIDE-10

RCS TITAN-10



2.4 GHz Digital Proportional R/C

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Thank you for purchasing this 2.4 GHz DSM2 single function Trackside R/C system.

TITAN-TRACKSIDE IS FOR CONTROLLING MODEL RAILWAY LAYOUTS FROM TRACKSIDE BY R/C.

It is suitable for use with all scales. Maximum voltages allowed. Must be regulated DC.

"N" scale = 12 volts. "H0" scale use 12 – 15 volts & Large scale use up to 24 volts.

Operators are required to supply and use suitable fast blow fuses on both the input and output.

"N" scale = 2 amps. "H0" scale up to 3 amps. Large scales up to 6 amps.

The base unit has a PWM motor drive output which may not be suitable for DCC equipped locos.

The # CRE-57091 PWM-Linear DC filter is available to remove the PWM element.

N.B. Removing the PWM factor may result in slightly less smooth starting & stopping for some locos.

INSTRUCTION MANUAL

THESE INSTRUCTIONS REFER SPECIFICALLY TO THE TITAN-TRACKSIDE HANDPIECE.



WHEN USED FOR TRACKSIDE R/C OR BATTERY R/C
1 X 300° KNOB CONTROLS SPEED & DIRECTION.
RED BUTTON USED FOR BINDING OR SOUND TRIGGER.



REMOVE REAR OF TTC TO INSERT
THE 9 VOLT BATTERY.
LED BLINKS WHEN BATTERY LOW.

THE TITAN-TRACKSIDE-10 IS GUARANTEED FOR ONE YEAR.

TO AVOID CONFUSION WITH OTHER OPERATORS, WE SUGGEST YOU MARK THE TX TO SHOW WHICH TRACK CAB OR BATTERY R/C LOCO IT IS OPERATING.

CAUTION

DO NOT ATTEMPT TO ALTER THE TUNING OF THE RADIO EQUIPMENT.

DO NOT USE RADIO CONTROL EQUIPMENT IN THUNDERSTORMS.

CHILDREN UNDER 12: ADULT SUPERVISION RECOMMENDED DURING USE.

PREPARING THE # **TITAN-TRACKSIDE-10**.

THESE INSTRUCTIONS REFER TO THE **RCS TITAN-TRACKSIDE-10** 2.4 GHz 5 CHANNEL R/C. LAYOUT OF THE TITAN TRACKSIDE TRANSMITTER HAND PIECE.

Top left is the ON – OFF switch with LED. Top right is the Bind/Ch # 5 pushbutton. Only one channel is required for both speed and direction.

1. “BINDING”.

The 1st procedure is to “BIND” the receiver (RX) to the Transmitter (TX). Only necessary if not already bound. Test this by turning the Rx on first. The bind LED will flash once every 2 seconds. Then turn the TT ON. Within a couple of seconds, the bind LED will go solid ON indicating the TX & RX are bound. If the bind LED continues to flash slowly, binding will be necessary. “BINDING” is accomplished by following a few simple steps below.

AUTOMATIC BINDING.

1.1 Turn the **TITAN-TRACKSIDE-10** power supply ON. The RX in the case will blink slowly, once every 2 seconds. The very tiny red LED on the ESC in the base unit will also blink **very** rapidly during the binding process. The green light on the case is a repeater of the Rx LED.

1.2 After 20 seconds Red Rx LED inside the case will start blinking rapidly and is ready to be bound.

TITAN - Trackside "Neutral"



FUNCTIONS OF TTC

TITAN - Trackside "ON"



TITAN-Trackside "Bind"



PRESS & HOLD BIND BUTTON. THEN TURN POWER ON.

1.3 Press **and hold** the top right pushbutton on the handpiece marked with a hexagonal symbol. You may need to keep TX & RX about 1 x metre apart for binding to take place.

1.4 Then simultaneously press **and hold** the ON – OFF button **ON**. Hold both buttons until the RX bind LED stops blinking fast & starts blinking slowly. Let both TX buttons go. The TX button will also blink slowly & then go solid ON.

1.5 The LED on the Rx in the case will blink more slowly & then go solid ON when “BINDING” is complete. The two tiny LED’s on the ESC will now blink alternately for 2 seconds. See section # 3 on next page.

Most important. During regular use, always turn the TT on before the Base Unit. If you turn the Base Unit ON before the TX, it will always enter binding mode after 20 seconds if the TX is not turned ON within that time. If that happens simply bind again.

2. PREPARING FOR USE WITH A TRACKSIDE LAYOUT.

NEVER PLACE MULTIPLE RX BASE UNITS SIDE BY SIDE. KEEP 1 X METRE APART.

Make sure the 12 – 24-volt DC supply is OFF.

Connect the 12 – 24 volt to the input terminals. There are 10 amp fast blow fuse. Fitted. Spares included.

Connect the layout wiring to the OUTPUT to TRACK terminals. These are also fused with a 10 amp fast blow fuse.

If you need to, reverse the track connection to suit direction of control.

3. USING TITAN-TRACKSIDE-10 R/C & TTC WITH A TRACKSIDE LAYOUT.

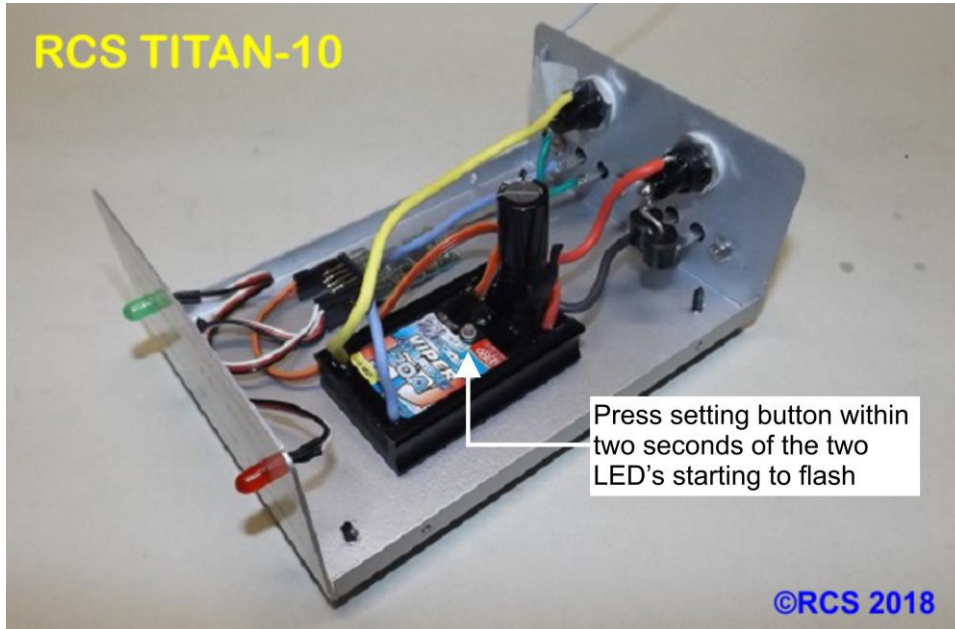
Make sure TT handpiece knob is in the middle position first. Only then switch the TT ON. **MOST IMPORTANT!!**
Then turn ON the layout DC power supply.

FIRST TIME USE. Remove the 4 x case screws to access inside the base unit. See pic below.

The two tiny LEDs on the actual speed control unit will alternately blink rapidly. Within 2 seconds of them starting to blink rapidly press the SET UP button in the middle of the case through the clear plastic cover. Use an insulated rod.

This accurately sets the actual centre OFF position of the speed controller to match the détoné on the TX handpiece.

If you were not fast enough, leave the TT ON & turn the base unit OFF and then ON again. As soon as the TT and base unit link together the Speed Control part will start flashing alternately. Then press that button within 2 x seconds.



Then twist the Knob once in each direction to the end of travel and return to neutral. This sets the default direction & maximum speed in each direction. If the track has the wrong polarity, repeat the procedure but start twisting the knob the opposite way first. This only needs to be done once, unless changing the TX handpieces.

Replace the case cover and the 4 x screws.

GENERAL USE. After turning the power supply ON, always wait five seconds before attempting to drive the loco(s).

To speed up, slowly turn the CAB "A" knob CW. The loco(s) on the track will move off in one direction.

To slow the loco, turn the big knob CCW. All the way CCW back to neutral will bring the loco to a stop.

Once the loco(s) have **completely** stopped, and with the knob in the middle, turn the knob CCW to speed up in the opposite direction. Turn the knob CW to slow the loco. All the way CW back to neutral will bring the loco to a stop.



Please observe correct polarity of the voltage IN terminals. Make sure the Rx antenna wire is vertical for best range.

WIRING THE "TITAN-TRACKSIDE" 10 AMP R/C THROTTLE.

