



# PODIUM

Programmable RC Car Speed Controller

17 Turn  
FS-POD17T



## SPECIAL FEATURES

- Fully programmable
- Excellent high output ESC
- Ultra high frequency & performance
- Forward & reverse w/ A.B.S (Anti-lock Brake System)
- Easy-to-use single button setup
- Speed up function
- Reverse delay function.
- High-temperature safety cut-off system prevents overheating damage
- Battery type for NiCd, NiMH & LiPo can be separately set.
- Safety protection from over discharge.
- No need to set the transmitter's throttle switch.
- MOSFET transistor operation for maximum power output & the greatest efficiency.
- Factory installed radio, battery, and motor connectors.

## OPERATING INSTRUCTIONS

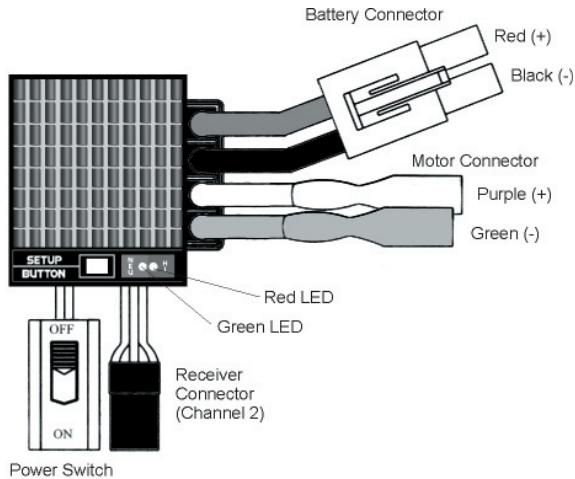
**Please keep for future reference**

Thank you for purchasing this PODIUM ESC 17T. We are sure you will be pleased with its performance and features. In order to ensure that you obtain the maximum benefit from its operation, please read these instructions carefully.

## SPECIFICATIONS

Input power NiCd & NiMH	6-7 cells (7.2-8.4V)
Input power LiPo	2 cells
Operating frequency	1.0 kHz
B.E.C. Constant current	5.0V
B.E.C Output Voltage	1.0A
On-Resistance	0.006 ohms
Cutoff voltage	NiCd/NiMH (4.0V) & LiPo (5.5V)
Motor Turns Limit	17 turns
Acceleration time delays	0.09, 0.16, 0.27 sec.
Weight with wires	33g
Case size	35 x 27 x 17 mm

## CONNECTIONS



## SAFETY PRECAUTIONS

- Please read instructions carefully before using !
- Do not run the car in or around water. Never allow water, moisture, or other foreign materials to enter the ESC.
- Only use 6 - 7 cells for NiCd/NiMH and 2 cells for LiPo.
- Always disconnect the battery pack from the speed controller when not in use.
- Always turn on the ESC after plugging it into the receiver and switching on the transmitter.
- Always check the battery polarity is correct – reverse polarity will damage the speed controller.
- Do not touch the transistors when they get hot !
- Be careful to avoid short-circuits between the various cables.
- Install the speed controller in such a way that it cannot come into contact with grease, water, or oil.

## MOUNT THE SPEED CONTROLLER

- It is very important to determine the best location that allows efficient airflow through the transistors for the ESC installation.
- Mount the ESC to the chassis using double-sided tape.

## INSTALL ON / OFF SWITCH

- Choose a convenient place to mount the switch using a piece of double-side tape.

## INSTALL RECEIVER

- In order to prevent radio interference, please mount the receiver as far from the motor, power wires, batteries, and servo as possible.
- In case of off-road cars, the receiver & antenna must be mounted on the rear shock tower as mounting the receiver in the tub of the chassis can greatly reduce the range of your radio and increase the possibility of radio interference.
- In case of the graphite chassis, please be sure to mount the receiver on edge with the crystal and antenna as far away from the chassis as possible in order to reduce radio interference.

## TRANSMITTER ADJUSTMENTS

In order to operate your ESC correctly, please adjust transmitter as follows;

- ATV, EPA, or ATL – set all to maximum.
- Throttle trims and sub trims – set all at neutral or zero.

## INSTALL ESC

- Adjust your transmitter, and connect the ESC to the receiver.
- Make sure the ESC switch is turned "Off" before connecting the battery pack.
- Turn "On" the transmitter and then the ESC - in that order.

## PROGRAMMING THE ESC

- With the transmitter throttle in the "Neutral" position, press and hold the speed controller's set up button until the green LED begins flashing, and then release the button. The neutral position is now set.
- Move the transmitter throttle to the " full throttle forward " position. The red LED will light up to indicate that full throttle is set.
- Move the transmitter throttle to the " full brake & full reverse " The red and green LEDs will light up to indicate that the full brake & full reverse point is now set.
- Move the transmitter throttle to the neutral position for about 3 seconds. The red & green LEDs will blink alternately for about 3 seconds. Move the transmitter throttle to either full throttle or full reverse, then return to neutral. The red LED will blink to indicate that the A.B.S braking system has been set.
- In order to erase the A.B.S braking system, run through the above steps in order, but leave out moving the transmitter throttle while the red & green LEDs blink.
- After completion of the above, the green LED will light up to indicate that your speed controller is now set up and ready to race.

**IN CASE OF ANY PROBLEMS DURING PROGRAMMING, PLEASE TURN OFF THE ESC AND PROGRAM AGAIN !!!**

## HIGH-TEMPERATURE SAFETY CUT-OUT SYSTEM

- In case the temperature of the ESC exceeds maximum ratings, the High-Temperature Safety Cut-Out System will temporarily shut off power to the motor to prevent overheating damage until it cools.

## SPEED UP FUNCTION

- This function is designed to adjust the rising time during initial starting to suit various track conditions.
- With the transmitter throttle in the neutral position, press and hold the speed controller's set up button for three seconds. The green LED will blink, then the red LED will blink. After that, release the set up button.
- After one second, the red LED will blink once. If you press and release the set up button at this time, the "minimum" rising time has been set.
- After a further second, the red LED will blink twice. If you press and release the set up button at this time, the "medium" rising time has been set.
- After a further second, the red LED will blink three times. If you press and release the set up button at this time, the "maximum" rising time has been set.

ONCE	===>	MINIMUM RISING TIME (NORMAL TRACK)
TWICE	===>	MEDIUM RISING TIME
THREE TIMES	===>	MAXIMUM RISING TIME (SLICK TRACK)

## BATTERY TYPE SETUP (NICD / NIMH AND LIPO)

- With the transmitter throttle in the neutral position, press and hold the speed controller's set up button for five seconds. The green & red LED will blink. Then, release the set up button
- After one second, the green & red LED will blink once. If you press and release the set up button at this point, LiPo battery will be set.
- After a further second, the green & red LED will blink twice. If you press and release the set up button now, NiCd&MH battery will be set.

ONCE	===>	LiPo Battery
TWICE	===>	NiCd&MH

## REVERSE DELAY FUNCTION

This reverse delay function is designed to allow you to achieve the proper amount of brake during racing and prevent accidental use of the reverse function. To enable the brake, while the transmitter throttle is in the full forward position, if the throttle is moved to the full reverse position, the brake should be activated. To enable the reverse function, while the transmitter throttle is in the full forward position, move and keep the throttle in the Neutral position for a while then move it back to the full reverse position.

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