



<u>VTB4REDS</u> > GEN1 English version Sequence for running a VTB Test Bench with the aid of ESC REDS ZX PRO 160A 1:10 GEN1 (no REDS App)

First of all, access the VTB and open a new "VTB PRO 2 Poles" card and enter all the required data, leaving the required "rpm Wheel" and "Max rpm Motor on ESC REDS" values temporarily suspended.

IF THE MODEL HAS A STOCK ROTOR:

Method 1 [using Max rpm Engine] RECOMMENDED!!!

1 - Get the track-ready model equipped with a 100% charged battery (race-ready model)

2 - Place the model on a base and make sure it is firmly stable on it; make sure that the wheels and all the various components and gears turn freely without any hindrance.

LURING THE BENCH TEST, PAY THE MAXIMUM ATTENTION AND ALWAYS MAKE SURE THAT THE MODEL IS ALWAYS IN A STABLE AND SAFE POSITION.

3 - turn on the radio control and then the model: the model will turn on in the "ready to race" configuration.

4 - take the radio control and start the model slowly, bringing it gradually (in about 5 seconds) up to maximum power, maintaining maximum GAS for 2 max 3 seconds; then release.

5 - connect the reds program box to the ESC and to the PC.

Read the stored "Max rpm" value on the program; log out and turn off both the model and the radio control.



9. PROGRAMMABLE FUNCTIONS

9.1. GENERAL

RUNNING MODE

This setting allows selection between Forward and Brake, Forward with Brake and Reverse and Forward with Reverse.

Note: if you plan to use Reverse drive, make sure to adjust the motor end bell timing to zero degrees advance.

LOW VOLTAGE CUTOFF

This setting adjusts the desired threshold for battery Low Voltage Cutoff. Battery voltage may drop significantly during high current discharge depending on the boost and turbo settings. If you need to change the value in detail, use the custom value.

ESC OVERHEAT PROTECTION

This setting adjusts the ESC thermal protection shut down temperature.

6 - Read in menu position 9.6 the "Max rpm Motor " value and write it down.

BRAKE R To contro

feeling. F traction tr

BRAKE F

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BRAKE C

To select brake ma change th

9.4. BO

BOOST T

This setti timing. Se Setting th temperati class mot combinati risk of ov

BOOST T

This para value will

selected, it means that	the turb	o timing bo	ost will	be activated	only when the
throttle is in full position and the turbo delay time is achieved.					

TURBO ON RATE

nore may To control how fast to open all Turbo Timing up. Having a higher value will be more advance to open all turbo timing up.

ck it TURBO OFF RATE

To control how fast to reduce the motor rpm when the throttle is returned to the neutral position. A higher value will reduce the motor rpm more quickly.

PWM 9.6. DATA

ottle MIN BATTERY VOLTAGE

This data shows the minimum battery voltage when in the running.

MAX ESC TEMP

less. This data shows the esc maximum temperature when in the running.

se a ange your y for ntrol	MAX MOTOR RPM This data shows the motor maximum rpm when in the running.				
	10. WARRANTY				
	Your REDS Racing ESC is warranted to the original purchaser for 120 days from the date of purchase, verified by the sales receipt, against defects in material and workmanship. Products that has been mishandled, abused, used incorrectly, used				

7 - Turn off the model first, then the radio control; proceed to disconnect the program box and the PC.

8 - Take back the previously opened VTB card and complete only the "Max rpm Motor on ESC REDS" field by entering the result value on the software (do not modify the "Wheel rpm value" window, it will be generated automatically by the VTB).

⁽ⁱ⁾ Giri ruota effettivi	Giri ruota effettivi		
(i) Max RPM Motor	Valore MAX RPM MOTORE su ESC REDS		

^① Giri ruota effettivi		Giri ruota effettivi
^① Max RPM Motor	🔺 Complete only this field. 🔁	30400

9 - click the "calculate" button (or press "Enter" on the keyboard); the VTB tab will show up immediately.

10 - go down to the bottom of the VTB tab, insert a name/title of recognition of the bench just made (for example: [model YZ, 13.5T, track YZ, FDR xxxx]) and press "Save as new". The card will be memorized in your reserved area of the VTB.

ATTENTION 🔔 🔔 🚹 :

if you want to make a VTB bench on a model with MODIFIED rotor, follow this procedure before carrying out point 4:

IF THE MODEL HAS A MODIFIED ROTOR:

1 bis - Access the Radio Control menu in the "Throttle" section, select "Throttle-EPA" and set the value to 50%.

Once this adjustment has been made, we could resume the sequence from point 4 of the stock rotor: the engine will give exactly half of the power that can be delivered despite applying 100% of the Throttle.

6 bis - take the "Max rpm Motor" value memorized by the ESC and multiply it X 2 .

The value resulting from this calculation will be the value to be entered in the VTB card in the "MAX rpm MOTOR on ESC REDS" field.

example : value in ESC rpm 30.400 X 2 = rpm motor 60.800 (value for the VTB).

Continue as from point 7

(7 bis) after performing the VTB Bench on a Modified model, remember to restore the "Throttle-EPA" value to 100% before entering the track.

ATTENTION 🔔 🔔 🧘

To perform Method 2 [using the Rotate rpm by Laser tachometer] the user is advised to view and learn the correct procedure on the vtbracing.it website



