

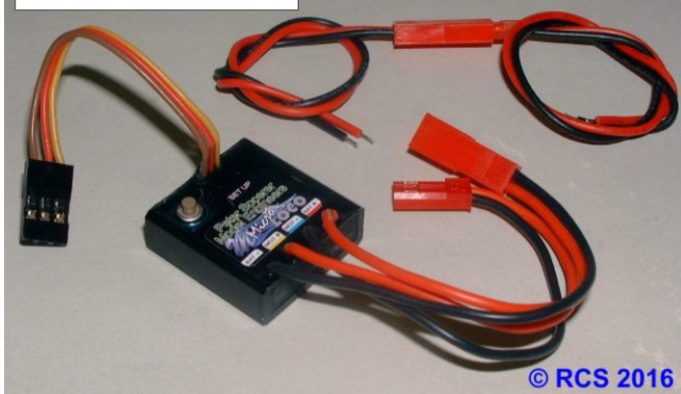
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## # VIPER-10-12/15

6A 7.2-12V ESC by M-TRONIKS

### # VIPER-10-12



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The **VIPER-10-12/15** is an ideal ESC for those wanting plenty of power in regular locos. BASIC Instructions are enclosed.

The # **VIPER-10-12/15** can be used with any R/C that has Ch # 1 throttle or Ch # 3 elevator. Either with a spring loaded stick or suitable knobs with centre detents.

Before you switch the system on, make sure the large throttle knob is in neutral. i.e. at the centre "click".

The # **EVO-BATT** can be used to control one loco on Channel # 1.

Our new "DUAL USE" TX handpieces such as the # **TX-1, TX-3, TX-5, TX-7 & TX-9** can also use Ch # 3 for a second Centre OFF ESC.

The VIPER ESC's do not have directional constant brightness lighting output controls.

Use the RCS # **MRW-SSLS** or # **Rx102-1(AB)** to have automatic constant brightness directional lighting.

**SETTING UP VIPER FOR THE 1st TIME.** After binding the RX to the TX:

1. Turn the TX on and then turn the RX ON. When the two are linked;
2. Little Green and Red LED's will flash alternately ON & OFF inside the VIPER ESC.
3. Within 2 x seconds of switch ON Press the "Neutral" button to set the ESC neutral position.
4. A single Green LED will show. Push the TX stick UP (twist the TX knob to the right) & back to neutral. The VIPER now knows where full speed in forwards is.
5. A Red LED will show. Pull the stick back (or twist the knob fully to the left) then back to neutral. The VIPER will now know where full speed in reverse is.

VIPER will always remember these settings. If loco runs backwards, reverse steps 4 and 5.

6. Turn the RX and then TX both OFF.

7. Turn TX on and then turn the RX ON. Wait 5 seconds and VIPER is ready to use.

**REVERSE ON - OFF** You can run the ESC with reverse ON or OFF. To switch between ON or OFF press and hold the set button any time you are in the neutral position. The Red LED will toggle ON & OFF. For normal release the button when the red LED is ON. For NO reverse, release the button when the LED is off.

**CENTRE OFF CONTROL** Using an **EVO-BATT** or our new "**DUAL USE**" TX handpieces such as the # **TX-1, TX-3, TX-5, TX-7 & TX-9** which can also use Ch # 3 for a second Centre OFF ESC.

#### **FORWARDS - SPEEDING UP.**

To select forwards direction twist the Large knob from neutral slowly clockwise (CW) to the right.

**SLOWING DOWN.** Turn the Large knob back to the left (CCW) to set desired speed.

**STOPPING.** Completely stop the loco by bringing the Large knob back to neutral.

#### **REVERSE - SPEEDING UP.**

To select reverse direction twist the Large knob slowly to the left (CCW).

**SLOWING DOWN.** Turn the Large knob back to the right (CW) to set desired speed.

**STOPPING.** Completely stop the loco by bringing the Large knob back to neutral.

**SHUTTING DOWN.** When you have finished operating, turn off the loco(s) before the TX.

**VIPER-10-15.** The 15 volt version includes an in line diode dropping module. This is installed before the voltage in cables. VIPER-10-12 to operate at a higher voltage. E.G. 14.8 volts nominal (4s Li-Ion).

Short Antenna

# WIRING THE M-TRONIKS VIPER-10-12/15 ESC

Three wire cable. Ensure plugs are correctly located.

Orange/White wire towards top/front of RX.

Be aware that auto bind Rx's have a different servo pin layout.

