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## # VIPER-10-24

### 6 AMP 24 VOLT ESC



The **VIPER-10-24** is an ideal ESC for those wanting real grunt in larger types of locos. BASIC Instructions are enclosed. The # VIPER-10-15 & # VIPER-10-24 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". TX-1, TX-3, TX-5 & TX-7 can be used for a second Centre OFF ESC on Ch #3. The # EVO-BATT can control one loco on Channel # 1.

The VIPER ESC's do not have directional constant brightness lightness output controls. Use the RCS # REV-LT 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.
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.
6. Turn the RX and then TX both OFF.
7. Turn TX on and then turn the RX ON. 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. To run with reverse, release the button when the LED is off. To run without reverse set the button when the red LED is ON.

**CENTRE OFF CONTROL USING AN EVO-BATT or RCS TX-1, TX-3, TX-5 & TX-7.**

#### 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.

For full instructions please visit Mtroniks VIPER LOCO 10.

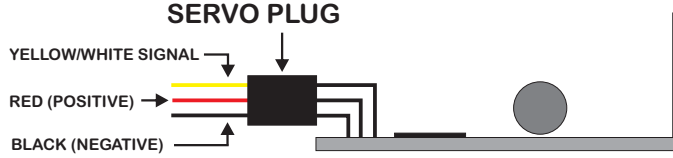
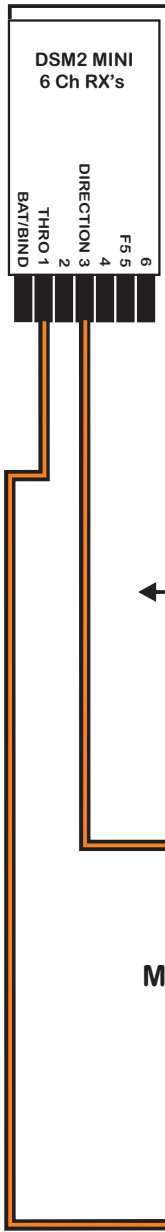
Short Antenna

# WIRING THE VIPER-10-15/24 ESC.

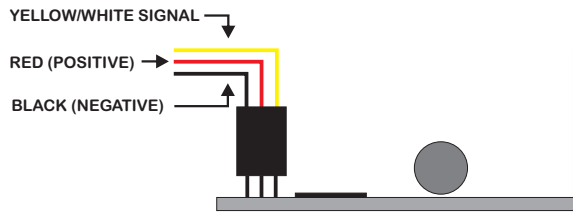
Three wire cable. Ensure plugs are correctly located.

Orange/White wire towards top/front of RX.

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

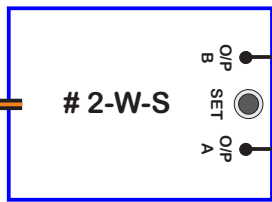


SIDE VIEW OF EM RX. **N.B. 1st version # DSM2-EM-MINI is the other way around.**

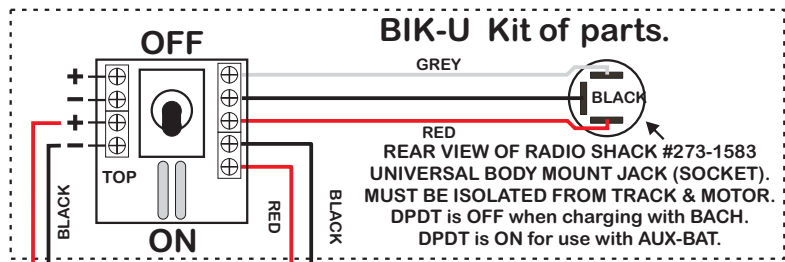
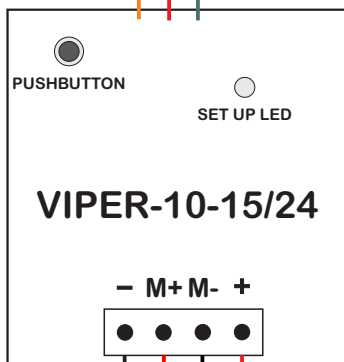
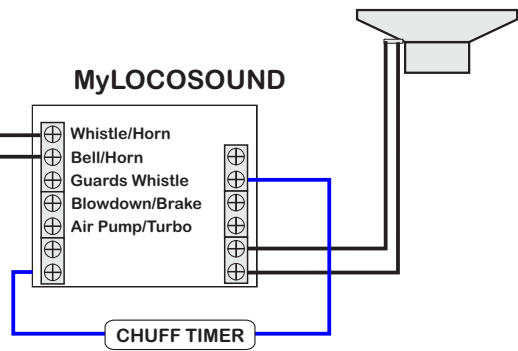


SIDE VIEW OF RA RX

Plug # 2-W-S into any spare channel with a centre idle.



Max 50 ma load on each trigger.



FUSE. We suggest you use a # RUE-300 3 amp Auto reset Polyswitch. NOT required with BIK-U3/6.

