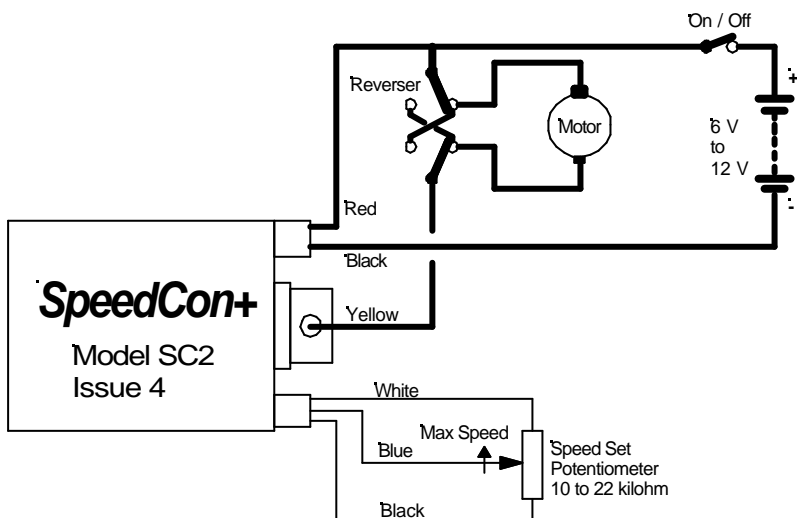


Operation

SpeedCon+ Model SC2 is an advanced microprocessor controlled pulse width modulated model railway motor speed controller with an output range between zero and 100% of full battery voltage. It combines excellent performance with high efficiency.

SpeedCon+ is designed for use on any supply voltage between 6V [minimum] and 12 V [maximum]. The maximum continuous motor load current is 2.5 A.

Connections



Notes

- 1 Connect the **yellow** wire to the screwed tab on the **SpeedCon+**, using the solder tag and screwed connection provided. **Do not connect this tab to any metal part of the vehicle body.**
- 2 Connect the **yellow** and **red** wires directly to the motor or reverser. Keep these leads as short as possible and run them together, preferably twisted. Keep leads from reverser to motor as short as possible also, and preferably twist them. Connect the positive battery supply directly to the **red** wire at its point of connection to the motor or reverser. Connect the **thick black** wire directly to the **negative** battery supply.
- 3 Take care with the battery polarity. Reversed polarity will result in very high currents and may damage the **SpeedCon+**. You are recommended to fit a fuse [Maximum 3 A] in the positive battery lead for protection.
- 4 Connect the **thin black, blue** and **white** wires directly to the speed setting potentiometer, as shown in the diagram. The potentiometer may be any value between 10 and 22 kilohm.
- 5 Fit an **On / Off** switch in the positive battery supply. Remember that the **SpeedCon+** draws current from the battery even when the motor speed is set to zero. The quiescent current is approximately 3 mA at 6 V supply and 7 mA at 12 V supply.