



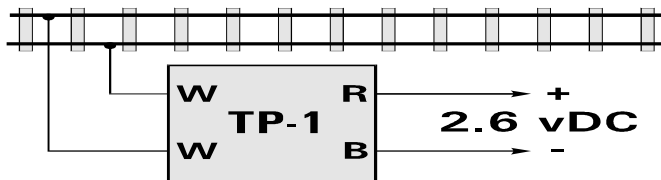
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TP-1 TRACK POWER ADAPTER

The **TP-1** is a miniature voltage regulator that can be used to power Strobe Flashers, EOT Flashers and marker lights from AC or DC track power. Slightly irregular flashing may occur with AC. If the train tends to move before the strobe starts to flash, installing a diode-type constant lighting kit will likely solve the problem. The **TP-1** will also power LEDs, although a 22-47 ohm resistor is recommended in series with each LED. The **TP-1** has an output of 2.6 volts DC at 50 ma.

DO NOT EXCEED 50 MA. LOAD.

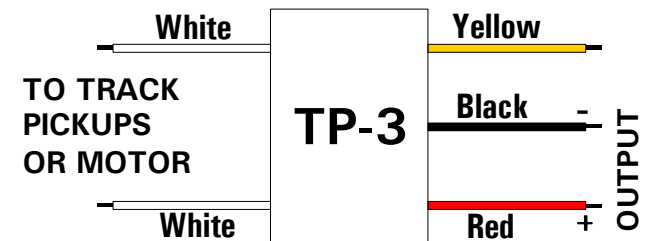


Connect the WHITE wires to the track at the motor or axle pickup. RED (+) and BLACK go to the load.

TP-3 TRACK POWER ADAPTER

The CIRCUITRON **TP-3** accepts either an AC or DC input of 5-16 volts and converts it to either 1.5 or 3.0 volts DC. It may be used with DCC. The WHITE leads connect to your track pickups or to the motor leads. The RED and BLACK leads are the OUTPUT.

RED is (+).



Connect YELLOW lead to BLACK lead for 1.5 volt output. Leave YELLOW lead unconnected for 3.0 volt output.

*CAUTION: Under high throttle and/or high current draw conditions, the **TP-3** will become quite hot. Provide adequate clearance on all sides to prevent damage to*