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YARD MASTER - wiring instructions

Place the direction switch into the CENTER POSITION before proceeding to connect the YARD MASTER throttle, this will help prevent any damage to the YARD MASTER when an improper connection is made while preliminary wiring is done.

With the power transformer TURNED OFF, connect the BLACK and WHITE input wires to an appropriately protected power transformer. Be sure to connect the BLACK and WHITE wires to the low voltage side of the power transformer (12.6VAC minimum to 20.0VAC maximum). If fuse protection is used in the power line to the YARD MASTER, use a 3 ampere slow-blow fuse (no larger than a 4 ampere slow-blow fuse is recommended).

With the direction switch in the center position, apply power to the power transformer. The GREEN LED should illuminate, indicating power on. If it does not, make sure that you have the BLACK and WHITE wires connected to the low voltage AC power source and NOT the red or green wires! When the GREEN LED is illuminated, a proper input power connection exists, you can now connect the RED / GREEN wires to the appropriate track (CAB) and operate a train. BE SURE that you are not backfeeding another throttle, this type of operation is not a general practice in model railroad operation and is in lieu of warranty !!

main harness color code:

BLACK \
 AC INPUT - TO LOW VOLTAGE POWER TRANSFORMER
WHITE / (this may not be filtered DC - will have no speed control)

RED \
 DC OUTPUT - TO TRACK (CAB OUTPUT)
GREEN /

Input requirements:

12.6VAC / 35 VA (WATTS) to 20.0VAC / 54 VA (WATTS)

It is suggested to use a 16 VAC transformer for 12 volt motors, higher voltages will yield faster top end speeds. It is not recommended to go higher than 16 VAC for 12 volt motors. Item #690 is a good power transformer for this unit.

To insure from track backfeeds from other sources, that might damage the YARD MASTER, always leave the direction switch in the center position when not using the YARD MASTER !

The YARD MASTER has electronic LIMIT circuitry that allows various current spikes to go uninterrupted but reacts quickly when a short circuit occurs. When an over current condition occurs, the RED LIMIT LED is illuminated and power to the track is turned off. After a few seconds pass, the power is again applied to the track. If the over current condition has been rectified, the YARD MASTER will continue to function as normal. If the over current still exists, the YARD MASTER will immediately turn off the power to the track and illuminate the RED LIMIT LED. The YARD MASTER will repeat this sequence until the short/overload current condition is rectified.

Some engines will emit an apparent "buzzing" sound. This is a mechanical noise generated from loose armature windings and/or shells/chassis. There is no danger of damage to your motor.