



PROFESSOR MOTOR CONTROLLERS

Thank you for purchasing the Professor Motor HO & 1/32 Semipro Model (PMTR2052)

Intended application : HO and 1/32 home & commercial track racing

Not recommended for high-powered wing car glue racing

This model features the following high quality features

- Polarity switching system for dual polarity operation with any track wiring
- Variable braking system (16 settings to vary brake performance)
- Variable Sensitivity system with over 40,000 possible settings
- Electronic semiconductor design with ultra wide range (+50% over our base controllers)
- Self resetting electronic circuit breaker system
- Dual aluminum heat sinks, unique internal handle-protected mounting
- New design low friction brass/steel trigger bushing system
- Power pilot light system for power and polarity indication
- Extra long, heavy duty 13 gage super flexible, high temp silicone controller leads
- Solid copper alligator clips with color coded vinyl insulating boots
- High impact polycarbonate plastic molded handle
- Low friction graphite impregnated wiper button with brass alloy wiper contacts
- Stainless steel hardware throughout
- Upgradeable modular design

Use & Care Instructions

- To activate the variable sensitivity system turn the silver knobs until bottoming, but be careful not to overtighten (snug only). Suggested use – make sure all the knobs are backed away from the “bottomed” position, start by turning in the front one (nose of controller) until bottomed & continue left to right until suitable sensitivity is achieved.
- To deactivate the variable sensitivity “switches” back off the knobs from the bottomed position about $\frac{1}{2}$ to $\frac{3}{4}$ turn.
- Caution! : Be careful when placing the controller down on a commercial track to avoid contact with the wiring connections to the track. The silver knobs for the sensitivity system and the heat sinks (inside the handle) are electrically active and a short circuit could result.
- Caution! : If connected incorrectly to power, permanent damage can result.
- Caution! : Wires on the circuit board may be very sharp and can cause injury if handled with the external housing of the controller removed
- Caution! : Sensitivity knobs may get very hot if high-powered motors are used. It is recommended that shrink wrap tubing be used to cover the sensitivity knobs to prevent injury if high-powered motors are used

Optional upgrades for this controller

- Power Relay system – Modular Upgrade (kit)

Regular maintenance

- Clean wiper button with 400-500 grit emery paper (slide paper under wiper)
- Clean brass contacts using 600 grit emery paper (carefully remove all brass dust)
- Oil the trigger pivot bushing (top & bottom) with a light machine oil

For technical information, questions or the latest catalog of available service parts and upgrades please visit us on the World Wide Web : www.professormotor.com