



# PROFESSOR MOTOR CONTROLLERS

Thank you for purchasing the Silver Series HO & 1/32 "Rental" Model (PMTR2049)

Intended application : Rental controller for HO & 1/32 club & commercial track racing where higher voltage power supplies (15 to 20 volts) are used – POSITIVE polarity

This model features the following high quality features

- New "Silver Series" ultra robust design features (see web site for information)
- Full short circuit & overload protection via self resetting electronic circuit breakers
- Glue-on heat sink direct mounted to semiconductors
- Extra long 16 gage PVC insulated controller leads
- Solid copper alligator clips
- Low friction trigger bushing
- Color coded vinyl insulating boots
- High impact polycarbonate plastic molded handle
- Full electronic semiconductor design with ultra wide range of control
- Low friction graphite impregnated wiper button
- Brass alloy wiper contacts
- Stainless steel hardware throughout
- Upgradeable modular design

Use & Care Instructions

- This controller is wired for positive polarity track configurations. Addition of the optional polarity switch system is required for proper operation on negative track wiring
- **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 removed

Optional upgrades for this controller

- PMTR2036 Reversing Switch System – Allows use on negative wired tracks
- PMTR2071 Low Cost Variable Sensitivity System
- PMTR2070 Variable Sensitivity System
- PMTR2030 Power & Polarity Pilot Light System

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](http://www.professormotor.com)