



# PROFESSOR MOTOR

Thank you for purchase of the Professor Motor "Low Cost High Voltage" Model Electronic Slot Racing Controller - PMTR2115 (Replaces PMTR2047)

Intended Applications : Stock or mildly tuned 1/32 & HO RTR Cars (Scalextric, Carrera, Ninco, Monogram, etc.), stock to moderate tuned HO

This model features the following high quality features

- **Recommended Voltage Range 16 to 19 volts**
- **POSITIVE POLARITY** Full electronic new transistor design with ultra wide range of control
- Low friction brass/steel trigger bushing system
- "Platinum Series" ultra robust design features
- Self resetting electronic circuit breakers to help prevent damage from accidental short circuit
- 16 gage PVC insulated leads & nickel plated alligator clips with color coded boots
- High impact polycarbonate plastic molded handle
- Low friction silver wiper button with nickel plated wiper contacts
- Stainless steel hardware throughout
- Upgradeable modular design

Use & Care Instructions

- **Caution ! : Regular maintenance is required** to keep the controller contacts clean and free from foreign objects & debris. Failure to properly clean, lube and maintain the contacts will cause the controller to fail, will allow the car to be driven without the throttle being depressed and can result in the wire wound pot used for sensitivity control (or brakes if added) becoming short circuited & damaged. Please take this warning seriously and follow this process to keep the contacts clean & properly lubricated :
  1. **Remove the front half of the controller case by loosening the three bolts**
  2. **Clean all debris from the nickel-plated contacts and surrounding area with a Q-Tip and lighter fluid**
  3. **The sliding contacts can MUST be CAREFULLY lubricated to reduce contact wear and provide a smoother controller action (e very 1-2 weeks of racing) as follows :**
    - a. Place a **SMALL** amount of SUPER LUBE PTFE Oil on the end of a Q-Tip & apply to the nickel contacts where the silver alloy contact travels
    - b. Cycle the trigger a few times
    - c. Use a Q-Tip with lighter fluid to remove any excess lube outside of the area where the contacts meet (remove 90% of the lube you just applied)
    - d. Examine the contact area to insure that cotton fibers from the Q-Tip are removed and that residual lube is minimal & barely visible
  4. **Repeat this whole cleaning / lube process on a frequent basis (every 1-2 weeks of racing) for best results.**
- Periodic Maintenance – lube the trigger pivot bushing with plastic compatible oil

### **Optional Upgrades**

- Power Relay System PMTR2037 – more positive low resistance path at Wide Open Throttle
- Variable brake system (PMTR2039/2040/2041 – 2040 recommended for scale 1/32 racing)
- Power relay system (PMTR2037)
- Power pilot light (PMTR2030)
- Heat sink (PMTR2001)

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)