



# PROFESSOR MOTOR

Thanks for purchasing the "CLUB RACER BASIC" Model Electronic Controller PMTR2115

Intended application : HO, 1/32 & 1/24 Home & Club Racing from low powered stock through mild modified motors.

This model features the following high quality features

- **Recommended operating voltage range 14 to 19 volts DC**
- Wired for **POSITIVE** polarity tracks (not for direct connection to home set power base)
- Electronic "Platinum Series" transistor design with wide range of control
- Fault tolerant robust circuit design to protect against overload or short circuit damage
- Fully functional in 2 wire (non-brake) applications
- Extra long, PVC insulated 16 gage controller leads
- Nickel plated steel alligator clips with color coded vinyl insulating boots
- High impact polycarbonate plastic molded handle, Stainless steel hardware throughout
- Low friction silver alloy wiper button with ultra hard nickel plated contact surface

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 can 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 brake control 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 MUST be CAREFULLY lubricated to reduce contact wear and provide a smoother controller action. To lube, do so as follows :**
    - a. Place a **SMALL** amount of TRI-FLO Teflon lube on the end of a Q-Tip & apply to the nickel contacts in the area 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 for best results.**
- Periodic Maintenance – lube the trigger pivot bushing with plastic compatible oil
- Optional Upgrades
  - PMTR2030 Power Pilot Light System
  - PMTR2040 25 Ohm Wire Wound Variable Brake Pot
  - PMTR2040 25 Ohm Pot – Use to add variable sensitivity feature
  - PMTR2001 heat sink to allow use of higher powered motors such as JK Falcon, NSR King, 16D

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)