



PROFESSOR MOTOR

Thank you for purchasing the “CARRERA BASIC” Model Electronic Controller- PMTR2123

Recommended Application : 1/32 & 1/24 Carrera home and club track racing

This model features the following high quality features

- **Recommended operating voltage : Standard Wall Pack Transformer**
- Wired for **NEGATIVE** polarity tracks
- Electronic “Platinum” Series transistor design with wide range of control
- Fault tolerant ultra robust circuit design to protect against overload or short circuit damage
- Fully functional in 2 wire (non-brake) application (some HO & 1/32)
- Extra long, PVC insulated 16 gage controller leads
- Solid Copper Carrera Terminals for direct plug in to Carrera Power Base
- 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 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 brake control (if used) 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 Super Lube PTFE 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 (every 1-2 weeks) recommended for best results.

- Periodic Maintenance - lube the trigger pivot bushing with plastic compatible oil

Optional Upgrades

- Power Relay PMTR2037 - provides a more positive low resistance path at Wide Open Throttle
- Variable brake pots PMTR2040 or 2041
- Variable sensitivity pot - Use the 25 Ohm PMTR2040 pot

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