



PROFESSOR MOTOR CONTROLLERS

Thank you for purchasing the Professor Motor “Gold” Model Controller (PMTR2041)

Intended application : HO, 1/32 and 1/24 commercial track racing through Group 20

Caution Concerning Controller Sensitivity : This controller has the same low end sensitivity as the HO Plus model (PMTR2042) and may be too sensitive for some types of HO cars in combination with certain track and power supply conditions.

This model features the following high quality features

- Variable Sensitivity system with over 40,000 possible settings
- Anodized aluminum heat sink, unique internal handle-protected mounting
- 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 Lexan plastic molded handle
- Full electronic semiconductor design with wide range of control
- 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 gold 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 right to left 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 avoid contact with the wiring connections to the track. The gold knobs for the sensitivity system and the heat sink (inside the handle) are electrically active and a short circuit could result.
- Caution ! : If connected incorrectly to power, permanent damage can result. For battery powered tracks, installation of the Professor Motor circuit breaker is recommended.

Optional upgrades for this controller

- Variable Brakes – Modular Upgrade (kit)
- Circuit Breaker to protect against accidental mis-wiring – Modular Upgrade (kit)
- Reversing Switch – Modular Upgrade (kit) to allow use on negative wired tracks
- Power Relay system – Modular Upgrade (kit)

Regular maintenance

- Clean wiper button with 600 grit or finer emery paper (slide paper under wiper)
- Clean brass contact buttons by hand using 600 grit or finer emery paper
- Oil the trigger pivot bushing 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