



PROFESSOR MOTOR CONTROLLERS

Reversing Switch Instructions (PMTR2036) for “Plus” Controllers (Blue Circuit Board)

Step 1 – With a Dremel or sharp Exacto knife cut the circuit board traces in two places as shown in the picture to the right. If easier for you, cut a notch with the Dremel all the way through the circuit board at these locations.

Step 2 – Using the 2 stranded plain copper jumper wires supplied, insert these wires in a crossing pattern on opposite sides in the small holes of the circuit board where the reversing switch will mount. To do this – start with an arch in the wire to get the ends started, then pull the ends through with pliers. For both of these wires form an “S” bend as shown to avoid contact with the center switch terminals. Cut off excess wire keeping only 1/16” at each end to bend over to prevent the wire from dropping out.

Step 3 – Insert the switch in the opposite side of the circuit board until fully flush and solder all six connections making sure to include soldering in the stranded plain copper wires. High temperature silver bearing solder is recommended like PMTR1003 or PMTR1004 using a paste rosin or liquid rosin flux. DO NOT use an acid core solder or an acid flux on any of the soldering required.

Step 4 – Trim the bottom (kinked) leg from the controller wiper arm and also the brake (left) side tab (as shown in the pictures) with a Dremel. Install the wiper arm back to the trigger. Using an Exacto knife chamfer the sharp edge of the molded trigger plastic on the bottom (brake) side where the new brake contact will mount such that this contact will mount as snug to the trigger as possible. Position the new brake contact and mark the hole position under the trigger in preparation for drilling.

Step 5 – Drill the new brake tab mounting hole through the trigger with a #49 (0.073”) drill if available (a 1/16” can be used & then opened up slightly with an Exacto knife). Mount the brake tab with the screw provided. If all is correct the screw hole will come out close to the center of the plastic “button” on the top of the trigger (as shown in the picture).

Step 6 – Solder on the jumper wire (provided) connecting the new brake tab to the tab (provided) that mounts under the trigger mounting screw. Place a generous loop in this wire to allow for movement of the trigger. Make sure that these connections and the tab under the mounting screw stays isolated during trigger movement. Also check that the wiper button is not contacting the third row of brass buttons when the trigger is in the brake position.

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