



Rotary Sensitivity Pot Installation for “Platinum Series” – PMTR2040

Tools & supplies you will need - pencil type soldering iron with small tip, lighter fluid, Q-tips or similar cotton swabs, rosin core solder, 5/16" nut driver / socket, #1 Philips screwdriver, small diagonal cutters, solder wick (optional) and a 1/16" Allen wrench

Important notes – All solder flux residue remaining after any soldering on the circuit board must be removed after soldering with a cotton Q-tip swab and lighter fluid to prevent corrosion of the circuit board and resulting damage from short circuits. For the same reason, **acid core solder and acid flux should never be used** on this or any other soldering operation on the circuit board or any other soldering of copper wires. For best results follow these steps in the sequence that follows.

Note – The sensitivity pot for all of the Professor Motor “Platinum” series controllers is the part number PMTR2040. This same part number may also be used as a brake pot and please see the specific instructions for brake pot installation of this part if that is the use intended.

Step 1 – Open the handle sections and cut the soldered-in jumper as indicated in the upper right with a yellow arrow (if no sensitivity pot was originally installed).

Step 2 – Unsolder and remove the sections of that jumper (at the green arrows) or the original sensitivity pot (if so equipped).

Step 3 – After removal of the jumper or original sensitivity pot use solder wick material to clear the residual solder from the holes where the jumper was soldered. If you do not have solder wick then heat up the solder and gently tap the circuit board assembly on a terry towel or soft surface to remove the excess solder.

Step 4 – Insert the sensitivity pot in position with one of the paper insulating washers supplied on each side against the circuit board. Add the lock washer and then tighten the nut supplied. The finished install should look as on the right side of the 2nd picture

Step 5 – Flip the assembly over and solder in the 2 legs of the sensitivity pot where the jumper was originally located. The third leg of the pot does not require soldering. The points to solder are as in the 3rd picture to the right.

Step 6 – Close up the case and then install the sensitivity knob. Make sure to allow some clearance between the back of the sensitivity knob and the controller case so that the knob can be rotated smoothly without rubbing on the controller case. Position the sensitivity knob in such a way on the pot shaft such that the pot is rotated fully clockwise when the white line on the pot is pointing straight up. When the pot then is in this position the sensitivity provided will be “minimum” and rotating the pot counter-clockwise will then increase the controller sensitivity.

NOTE – If the pot is provided with a red color knob (for brake pot application) the red color can be removed with denatured rubbing alcohol to allow that knob to be differentiated from the brake knob (if so equipped).

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