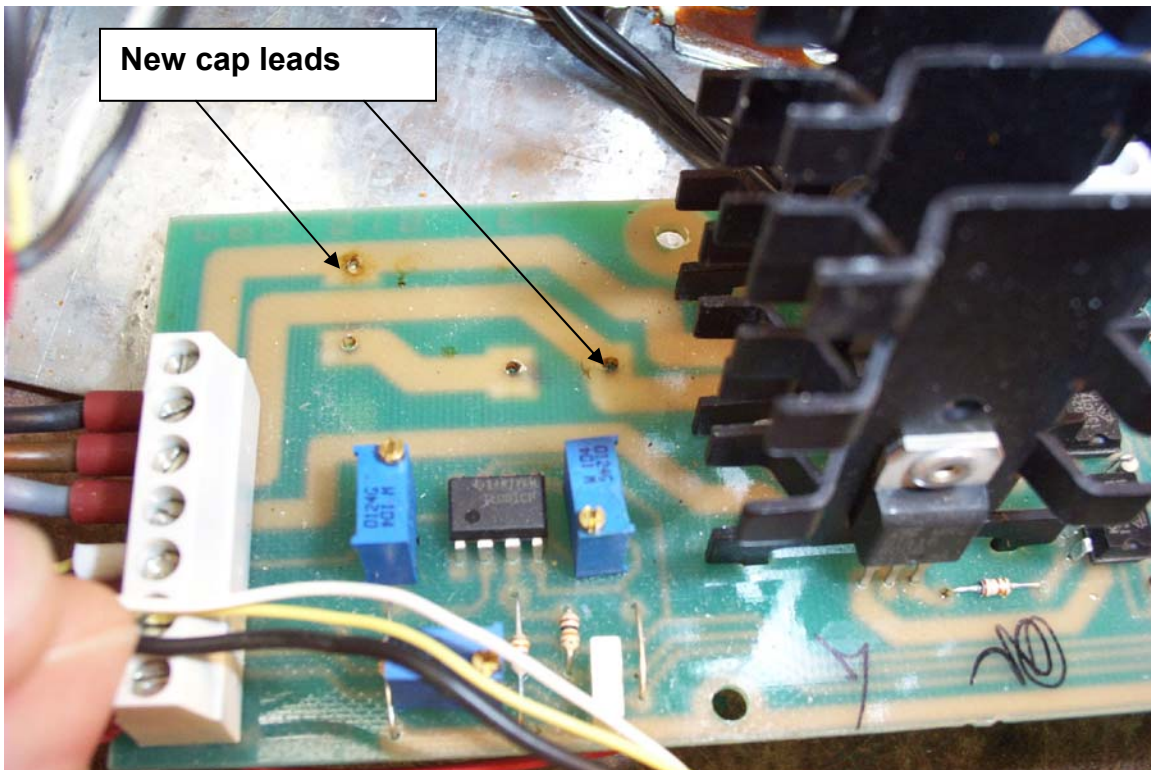
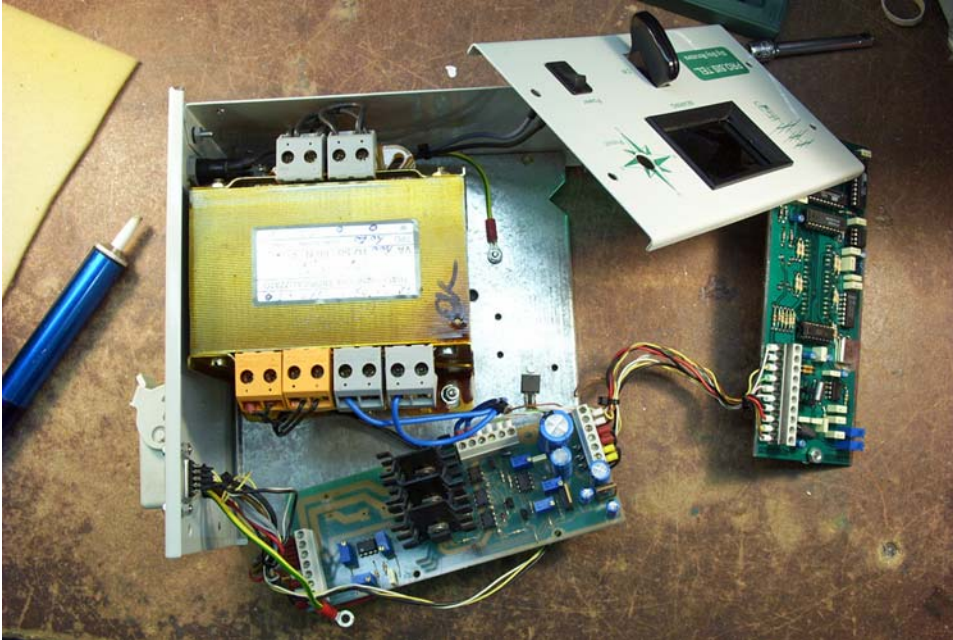


Procedure for replacement of capacitors with a heavy duty motor start capacitor for less heat and more torque from of your rotator.

Take the controller box apart and remove the two blue capacitors

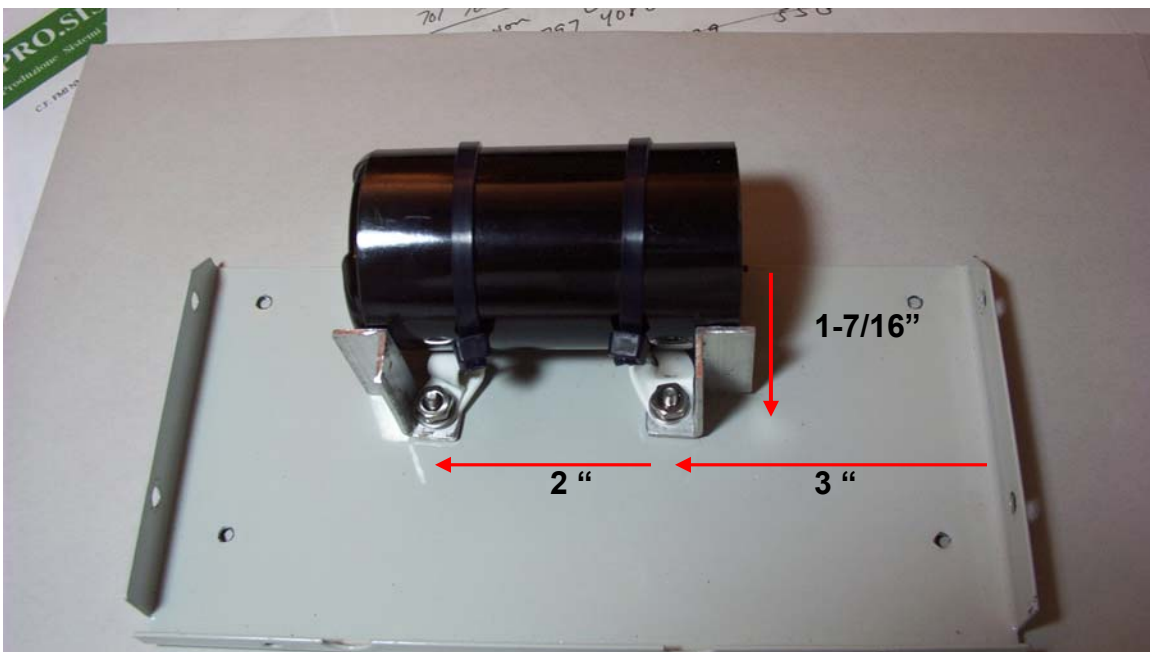


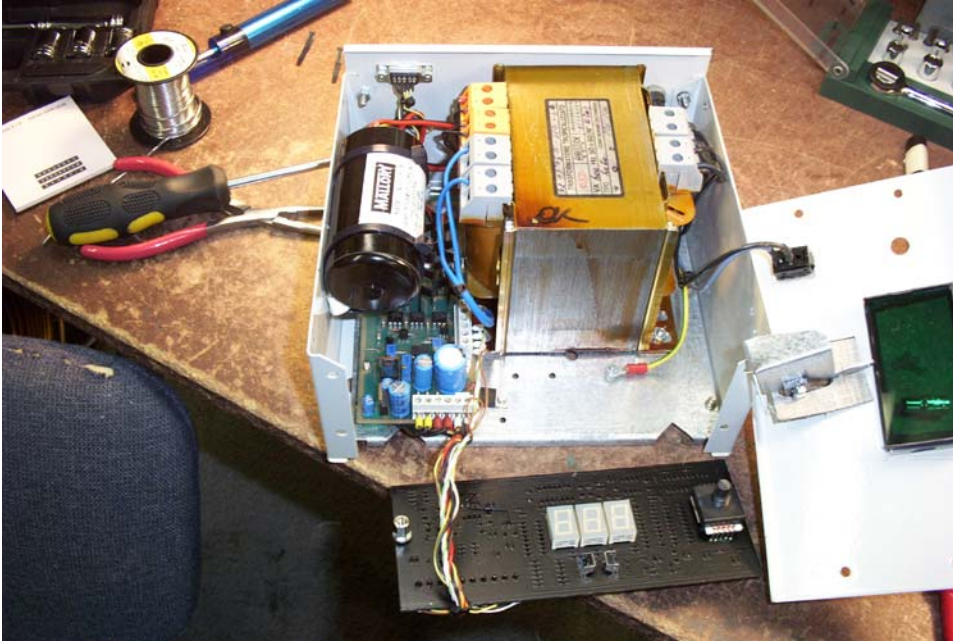
Main Board with the two blue caps removed



Prepare the large motor start cap with two leads and solder the leads into the two holes indicated in the Main Board picture. Use stranded 16 or 14 gage wire approximately 12 inches long.

Attach the capacitor to the side of the metal side of the box as shown below. We used some small AL angle channel formed it for a #6 screw and use cable ties and clamps to hold it in place. Place it high enough to allow it to float above the heat sinks. We drilled our screw holes 1-7/16 inch below the top of the wall piece. The first one is three inches from the back side of the controller the second one is 2 inches further from the first screw.





Now it is time to reassemble the controller box. Reverse the procedure and put the sides and boards back in place.

You should see a significant surge in start power, the capacitor barely gets warm now, and your rotator will have more turning torque. We noticed easily 25 % more power on the bench torque test setup.

If you need a kit we can supply one which includes

1. Capacitor – Mallory PSU 143015A ~500 uF 125 V – Heavy duty motor start type
2. Black and red zip cord wire for capacitor and terminals for capacitor
3. Cable clamps and wire ties
4. Stainless Steel hardware
5. Capacitor mounts for side of controller



jayt@arraysolutions.com
972 203 2008

Array Solutions
350 Gloria Rd.
Sunnyvale, TX 75182