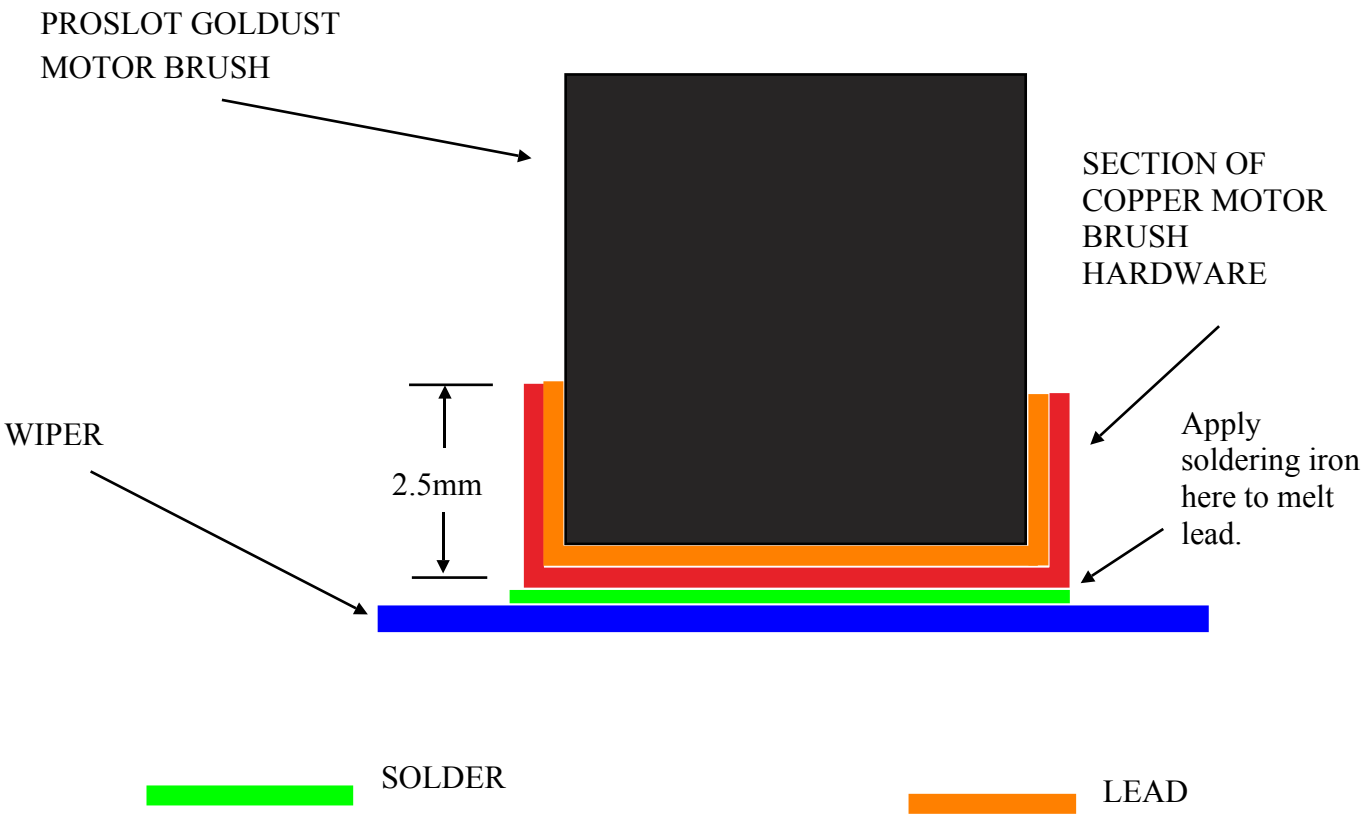

Making a Carbon wiper contact.
Using a carbon wiper for controllers ensures minimum wear on printed circuit wiper boards and gives a smooth contact. This fix also works when replacing wipers on Pro Controllers. There is only one way I have found to do this so the brush stays attached. Trying to "solder" the motor brush will not work, but this does! Follow the instructions to the letter!

You will need a new Proslot Goldust (no other type, or used brush will do)
An old copper motor brush plate (from a C can motor).
Some shavings of pure lead
Some good Acid flux.

Cut the Goldust motor brush to half it's length (and square both ends)
Cut up the motor brush holder so it forms a "cup" to hold the motor brush, approx 2.5mm high as shown and the length of the cut motor brush.

Solder to copper "cup" to the wiper in the desired position.
Gently rough up the bottom and sides of the motor brush (the faces to be soldered) with emery paper.
Ensure the inside of the "cup" is clean and that the motor brush section is a nice fit.
Lay a few scrapings of LEAD into the "cup"
Position the motor brush on top of the LEAD shavings and apply acid flux.
Apply light pressure the the top of the brush with a small screwdriver and apply hot soldering iron to the Outside of the cup and wiper (as shown) this will melt the LEAD and settle the brush into the cup, distributing the LEAD around the brush. Allow to cool. You may have to repeat if it doesn't work 1st time!