Feb 10, 2010
Rail is clean. Most of the tools are clean.

DO NOT TOUCH anything on the table.

If the curtain is closed, no one is here.
Screwing set screws upside-down into the rail
With the rail upside-down, unscrewing the set screws so that they are flush with the bottom angle
Cutting the guide wires to length, with plenty to spare
Filing off any rough places from the cutting
Preparing to acid etch the wires. 1 part HCl and 1 part de-ionized, filtered water.
Guide wires in acid
Copper portion of the waveplate-mirror clamps, in acid
10-24 threaded, slotted rods screwed into the injection coil piece
Sliding the rail onto the threaded rods
The nuts did not fit on to the threaded rods as planned, so I took the Dremel to it and ate away the center until it did fit.
Working on getting the rail to fit.
Tightening the nuts to hold the rail to the injection package.
Finishing up for the night
The rail is firmly connected to the injection coil piece, and the structural integrity shouldn’t be compromised too badly from the modification.