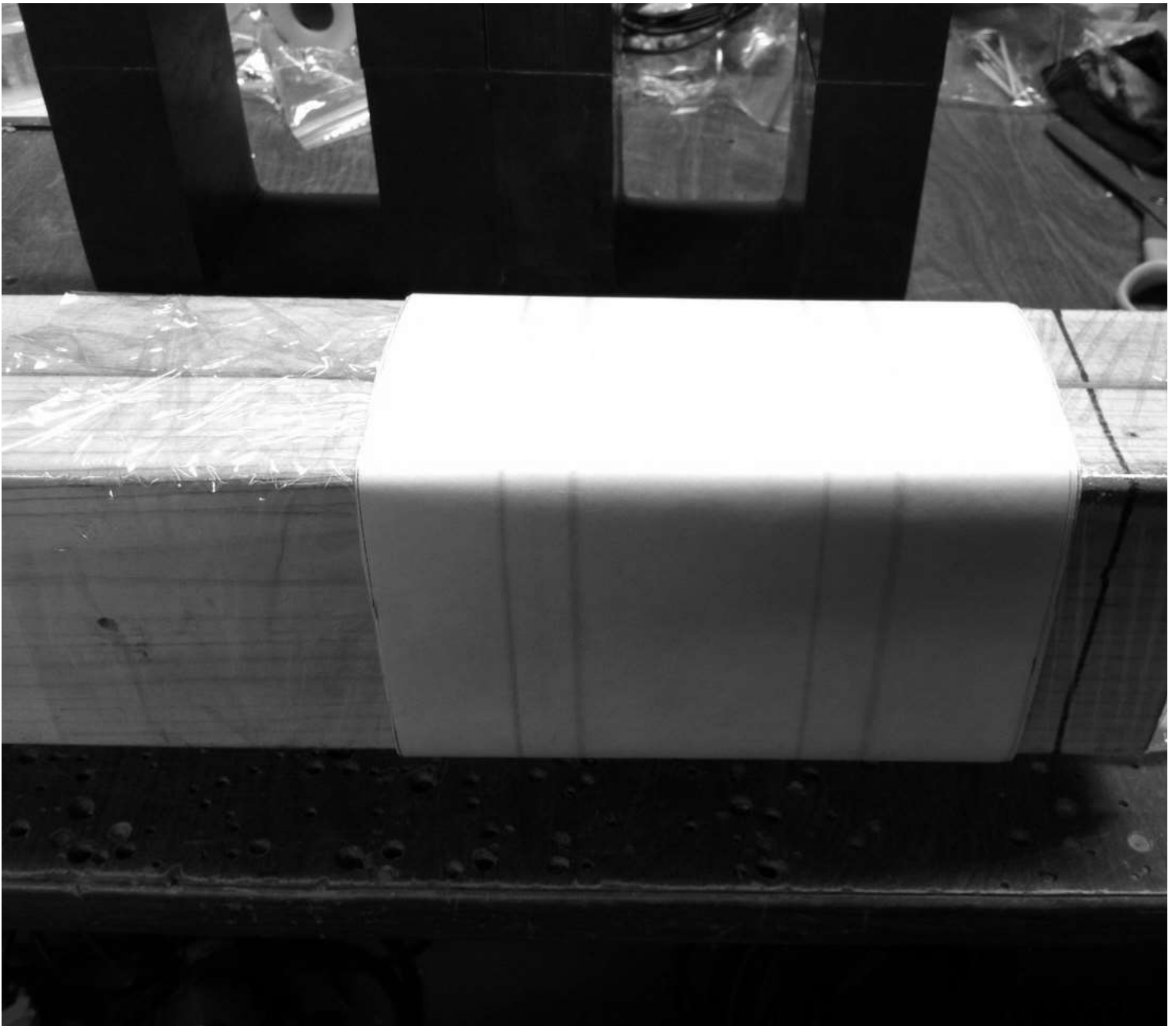


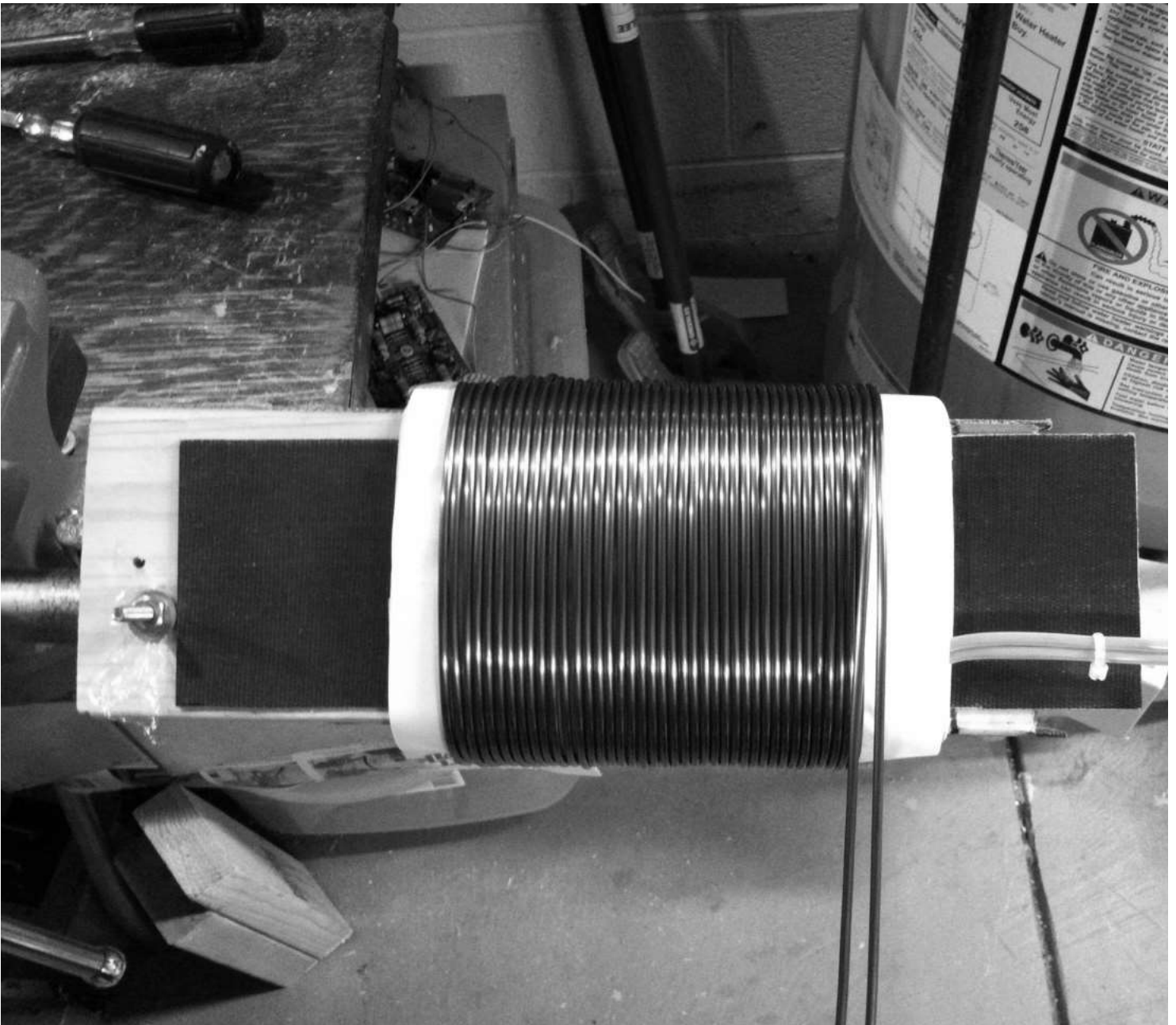
DANGER! HIGH VOLTAGE! YOU CAN BE KILLED! DANGER!

THIS C-CORE IS 40X80X160mm. THIS TRANSFORMER WILL BE 3500V @ 2.5A. THE C-CORE PART NUMBER IS CD40X80X160, FROM BRIDGEPORT MAGNETICS. THE NUMBERS ARE PUT ON THE CORES FOR ORIENTATION, ALWAYS ALIGN THE NUMBERED CORES TOGETHER AND ON THE SAME SIDE. THE PRIMARY WILL BE 100 TURNS IN 5 LAYERS OF 2 X 10AWG WIRE. THE SECONDARY WILL BE 1400 TURNS IN 14 LAYERS OF 18AWG. MY COST TO WIND THIS TRANSFORMER IS ABOUT \$450.00. THE FIRST C-CORE WORKED SO WELL, THE VOLTAGE IS VERY STABLE, THESE ARE GREAT CORES. IT WAS SO EASY TO BUILD, WINDING ONLY TOOK ABOUT 5 HOURS. THE WIRE IS AVAILABLE ON EBAY. I WAS SURPRISED ALL THE MATERIALS WERE AVAILABLE ONLINE IN SMALL QUANTITIES. GIVE IT A TRY, IT'S VERY EASY TO WIND YOUR OWN TRANSFORMER. THE PRIDE YOU GET FROM BUILDING YOUR OWN IS GREAT! I AM PROUD OF MY TRANSFORMERS! THEY WORK VERY WELL!

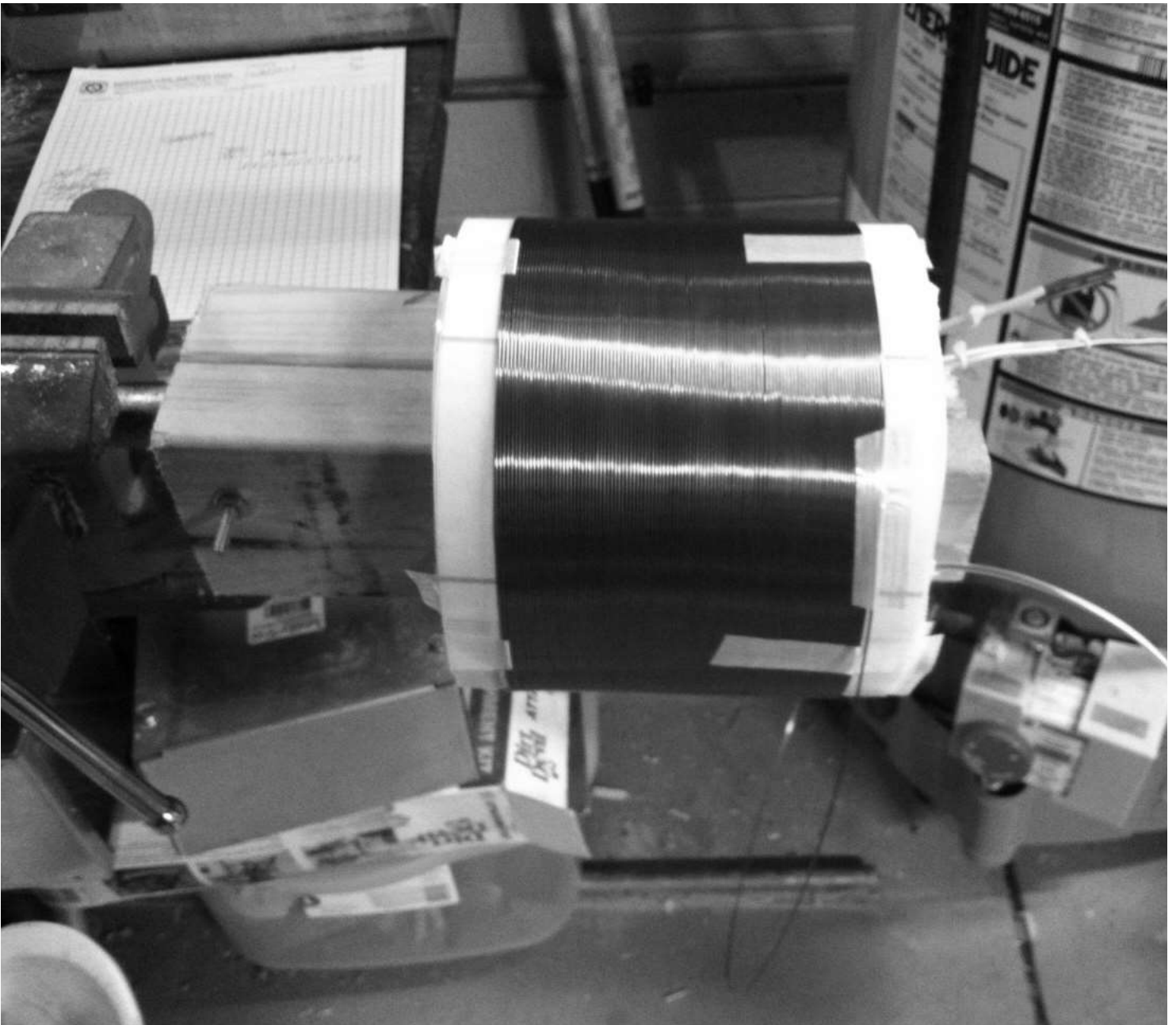




THIS IS THE BOBBIN FOR THIS TRANSFORMER. THIS TIME I USED THREE PIECES OF POSTER BOARD AND GLUED THEM TOGETHER AND WRAPPED THAT WITH 3 LAYERS OF NMN INSULATING MATERIAL.

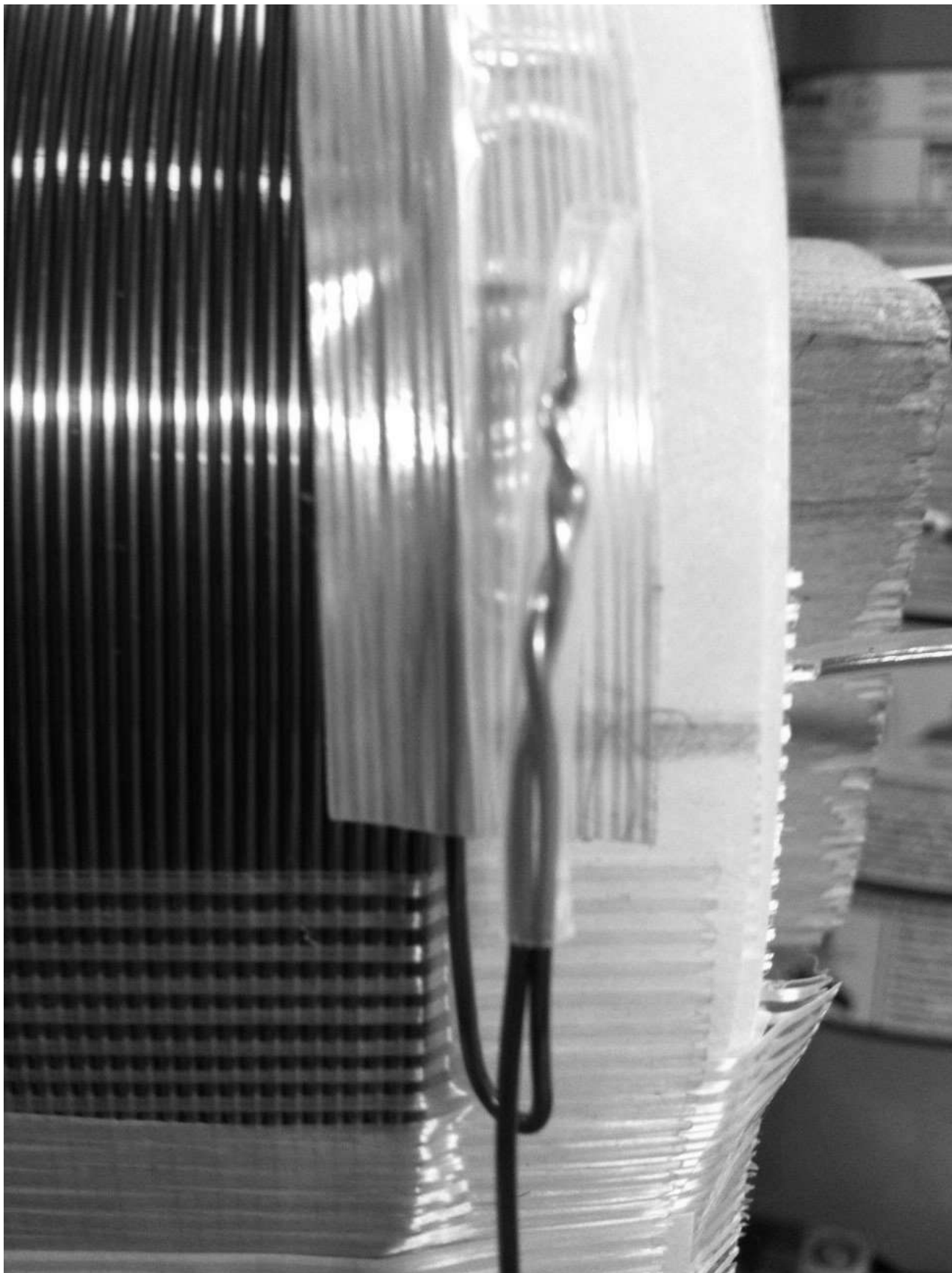


THE PRIMARY IS FINISHED, TOOK ABOUT TWO HOURS TO WIND. TO MAKE IT EASIER TO REMOVE THE BOBBIN FROM THE FORM, I WILL WRAP THE FORM WITH TEFLON SHEET.

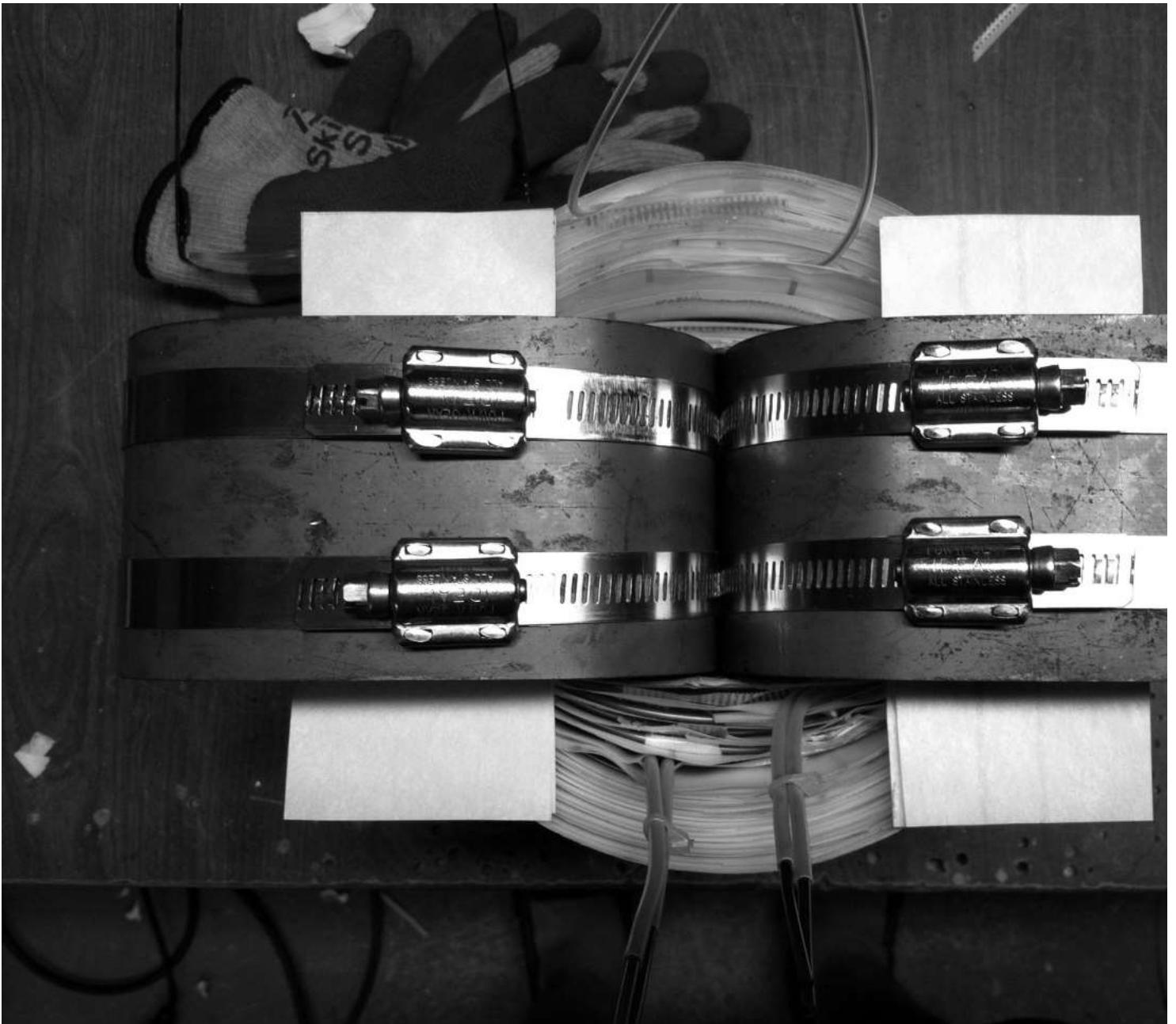


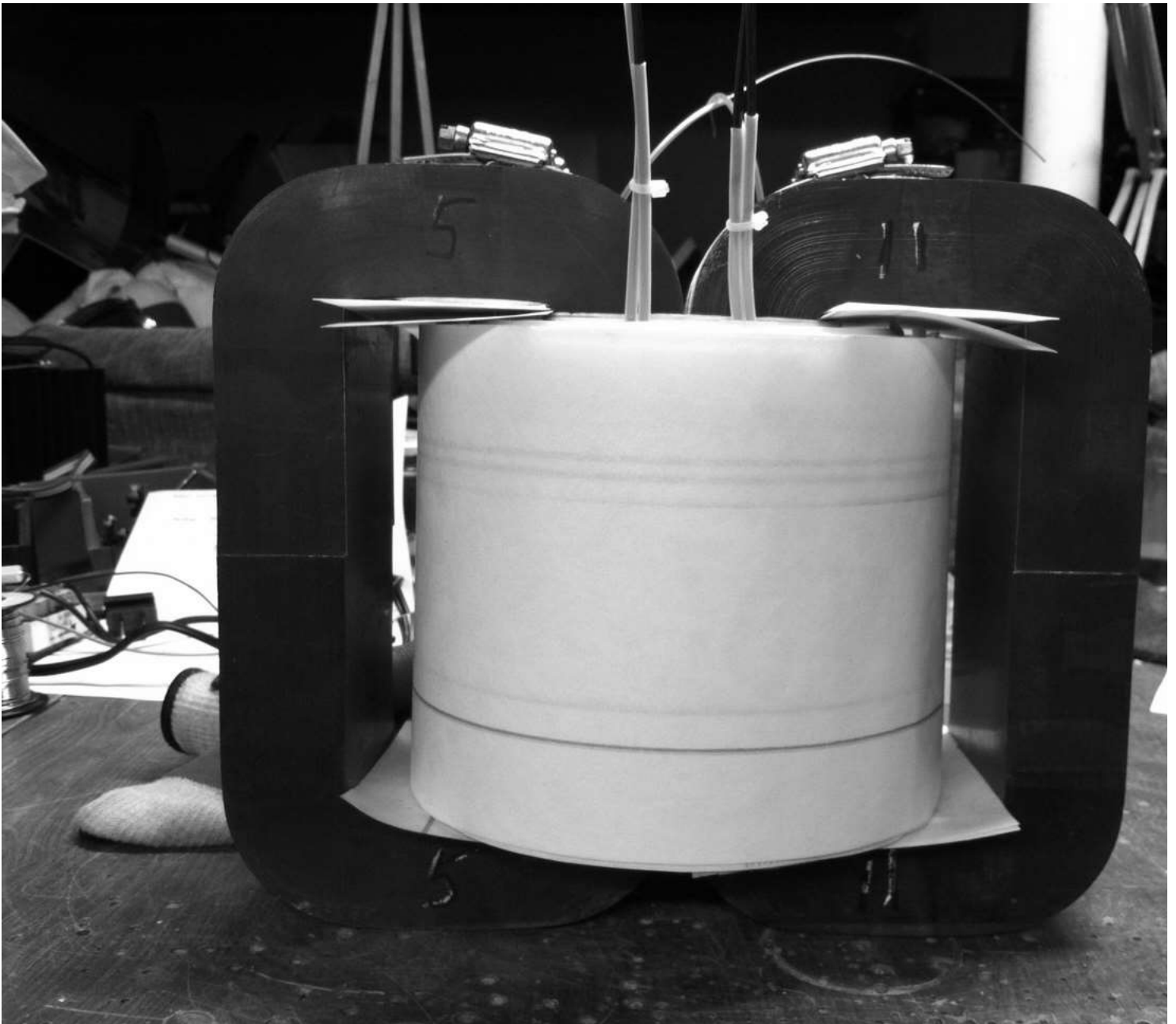


THIS COIL IS GETTING BIG! GLAD THERE IS A 2.5" WINDOW.

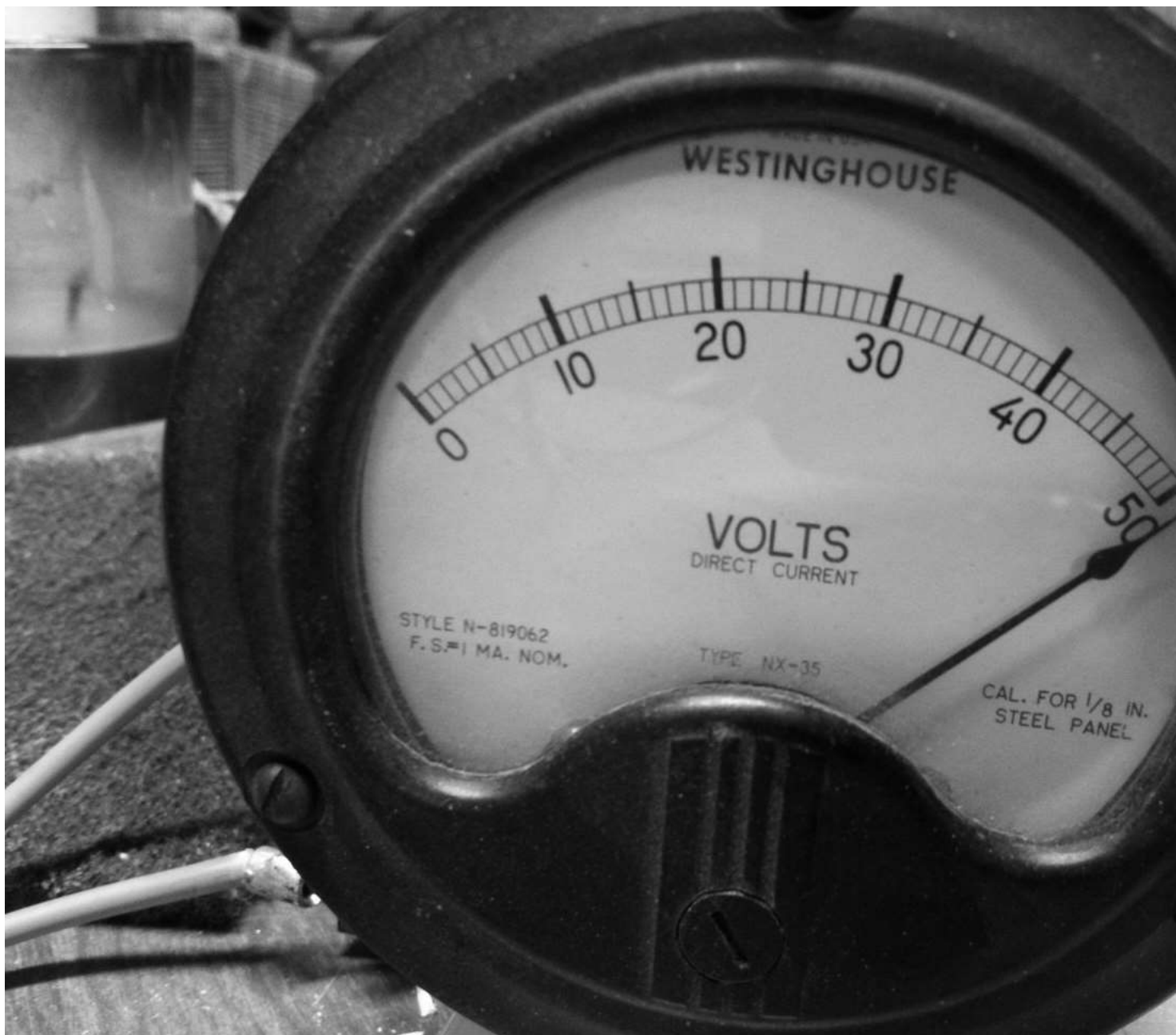


I COULD ONLY BUY 10LBS OF 18AWG WIRE. THIS MEANT THE 2000' OF WIRE WOULD NOT BE ENOUGH TO WIND THE SECONDARY. THIS IS HOW I SPLICED THE NEW REAL OF WIRE TO THE SECONDARY.

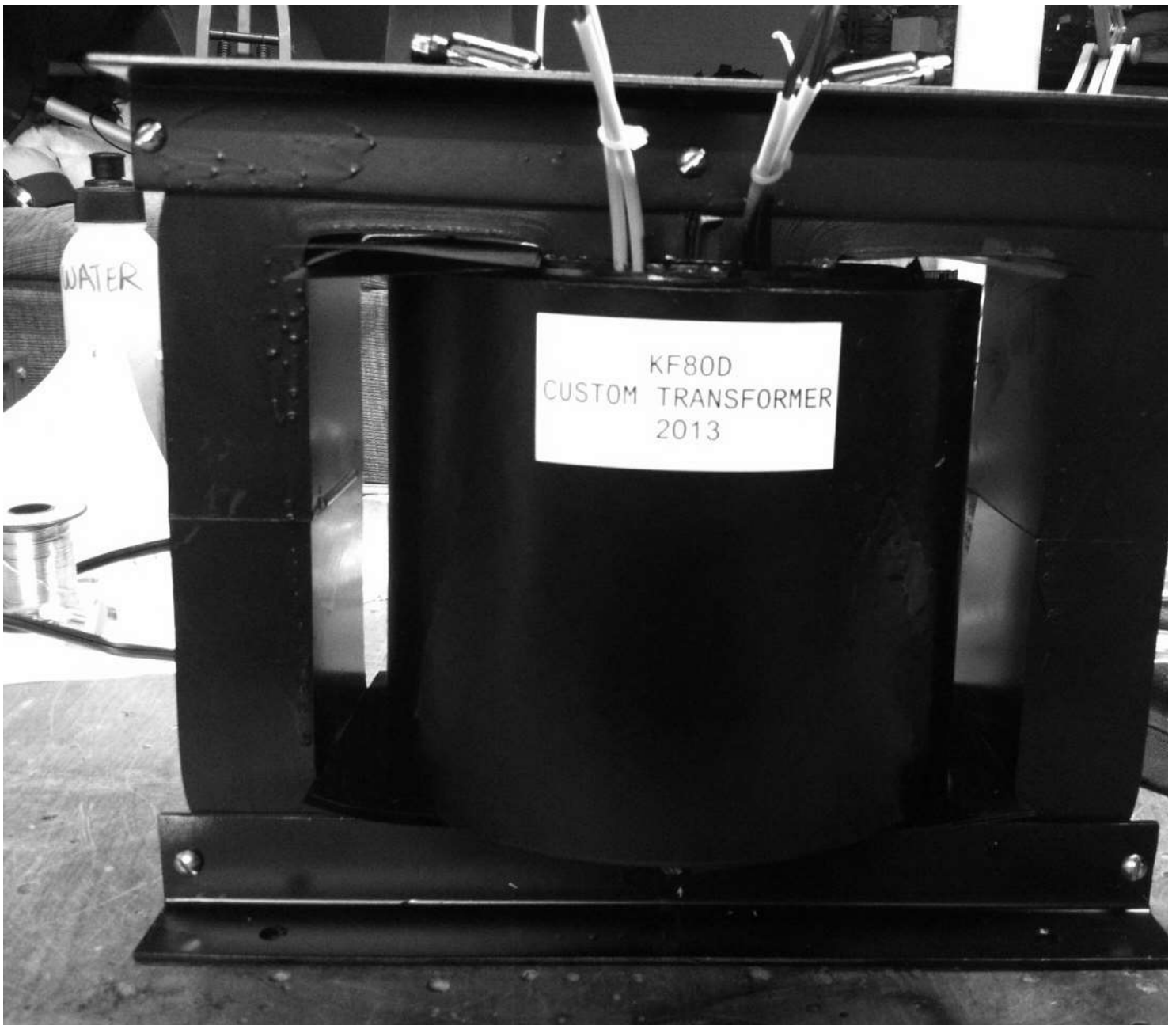








THE SECONDARY VOLTAGE IS 5200VDC.





I INSTALLED THIS TRANSFORMER IN ONE OF MY 3CPX5000A7 AMPS. WITH 1.5 AMPS OF PLATE CURRENT THE VOLTAGE ONLY DROPPED 100 VOLTS. THESE ARE GREAT C-CORES!

ALL THE INFORMATION TO CALCULATE THE TRANSFORMER YOU WANT TO WIND IS ON THE LUDENS PRACTICAL TRANSFORMER WINDING WEBSITE.

INFORMATION:

C-CORE PART NO. CD40X80X160. BRIDGEPORT MAGNETICS

ENAMEL WIRE ON EBAY FROM TEMCO

NMN INSULATING MATERIAL FROM BAE WIRE & INSULATION WEB STORE

HIGH TENSION HOSE CLAMPS PART NO. 4XZ81 FROM GRAINGER

POSTER BOARD FROM DRUG STORE

UPDATED 6-14-2013

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Typed Hits