

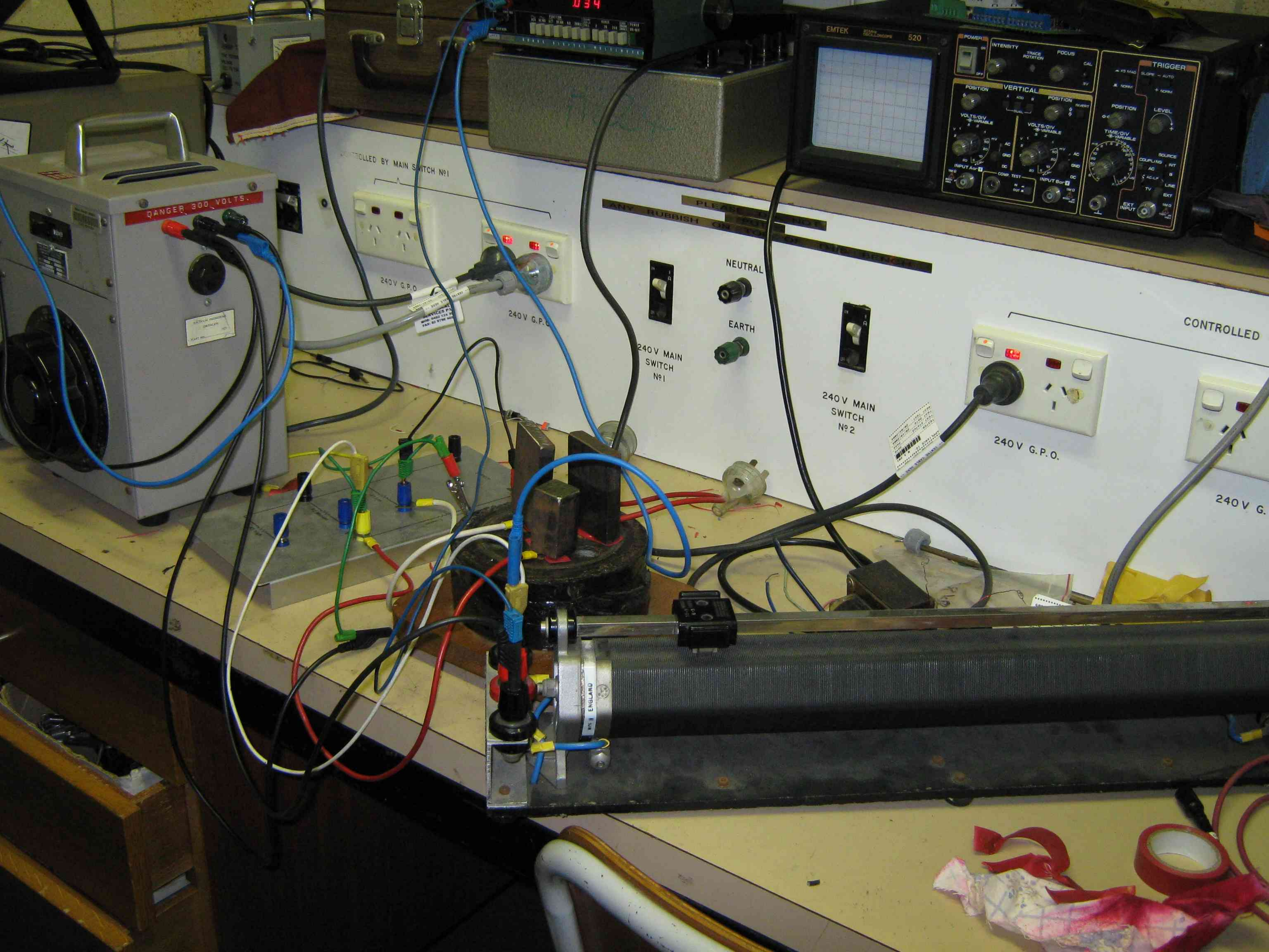
Current

Limiter

240v

63v

6.3v



DANGER 300 VOLTS

CONTROLLED BY MAIN SWITCH N°1

240V G.P.O.

240V G.P.O.

240V MAIN SWITCH N°1

NEUTRAL
EARTH

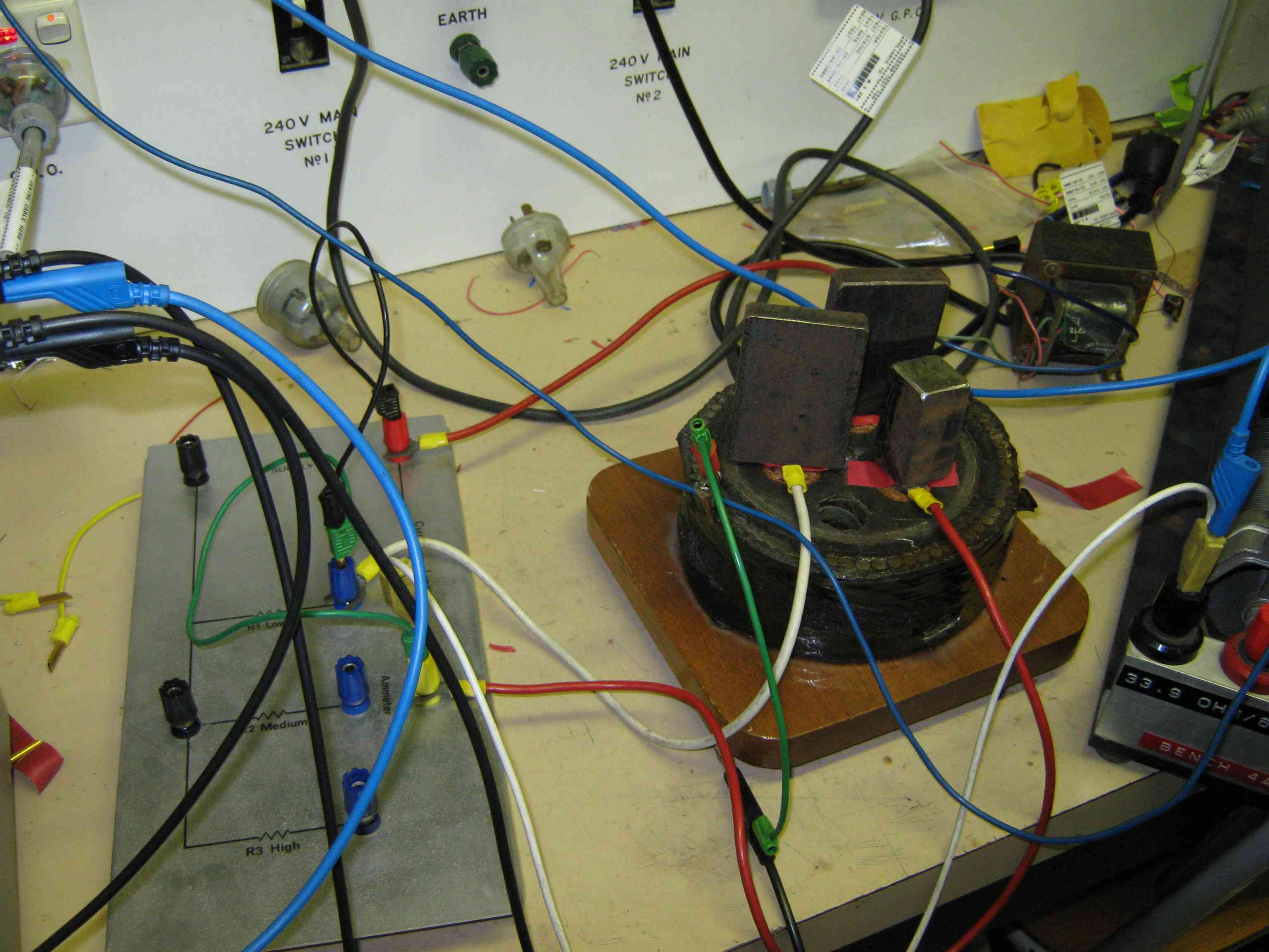
240V MAIN SWITCH N°2

240V G.P.O.

CONTROLLED

240V G.

MADE IN ENGLAND



EARTH

240 V MAIN
SWITCH
No 2

240 V MAIN
SWITCH
No 1

R1 Low

R2 Medium

R3 High

Ammeter

33.9 OHM
BENCH 4A



H.2.11

034

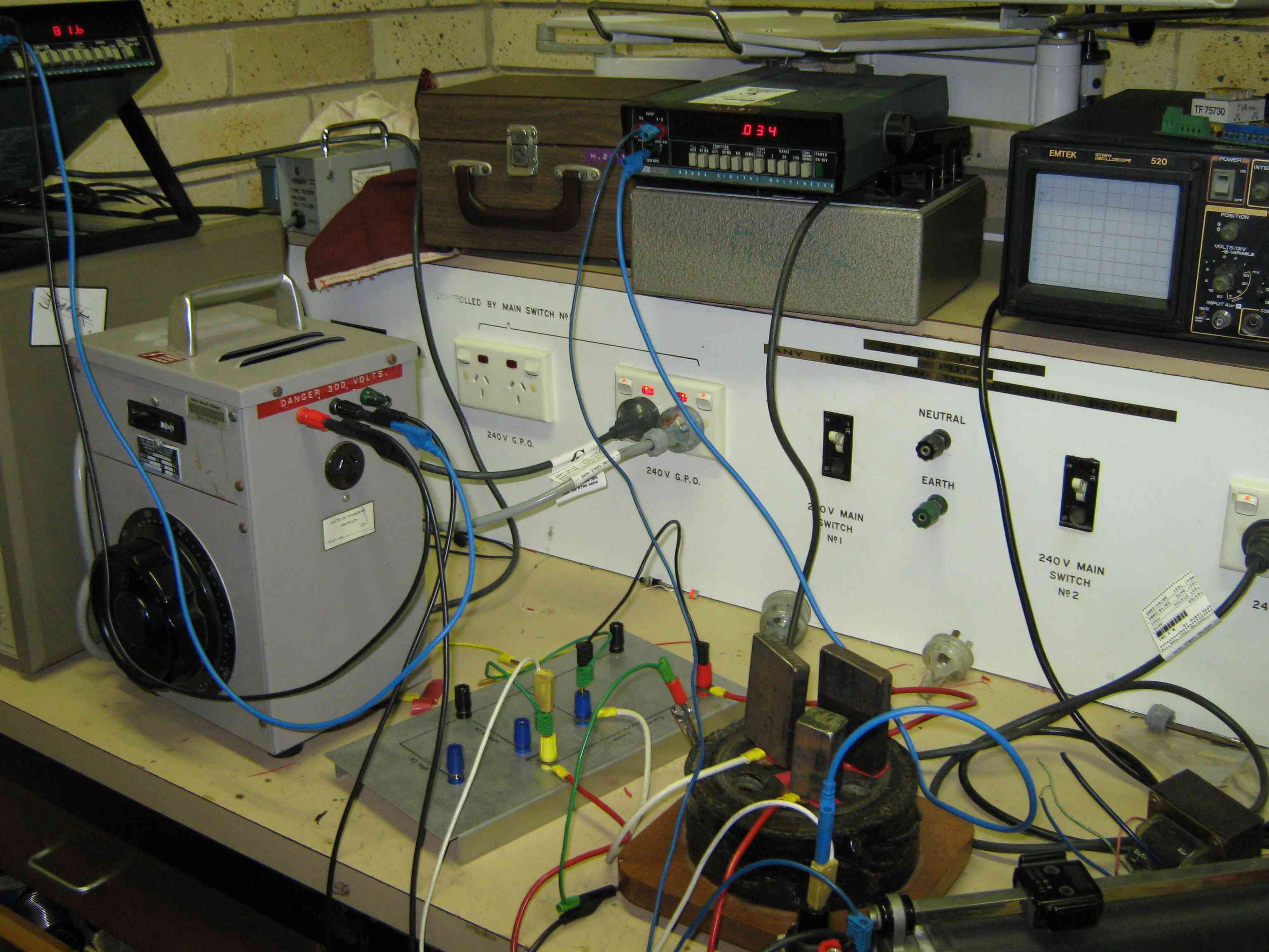
H.2.11

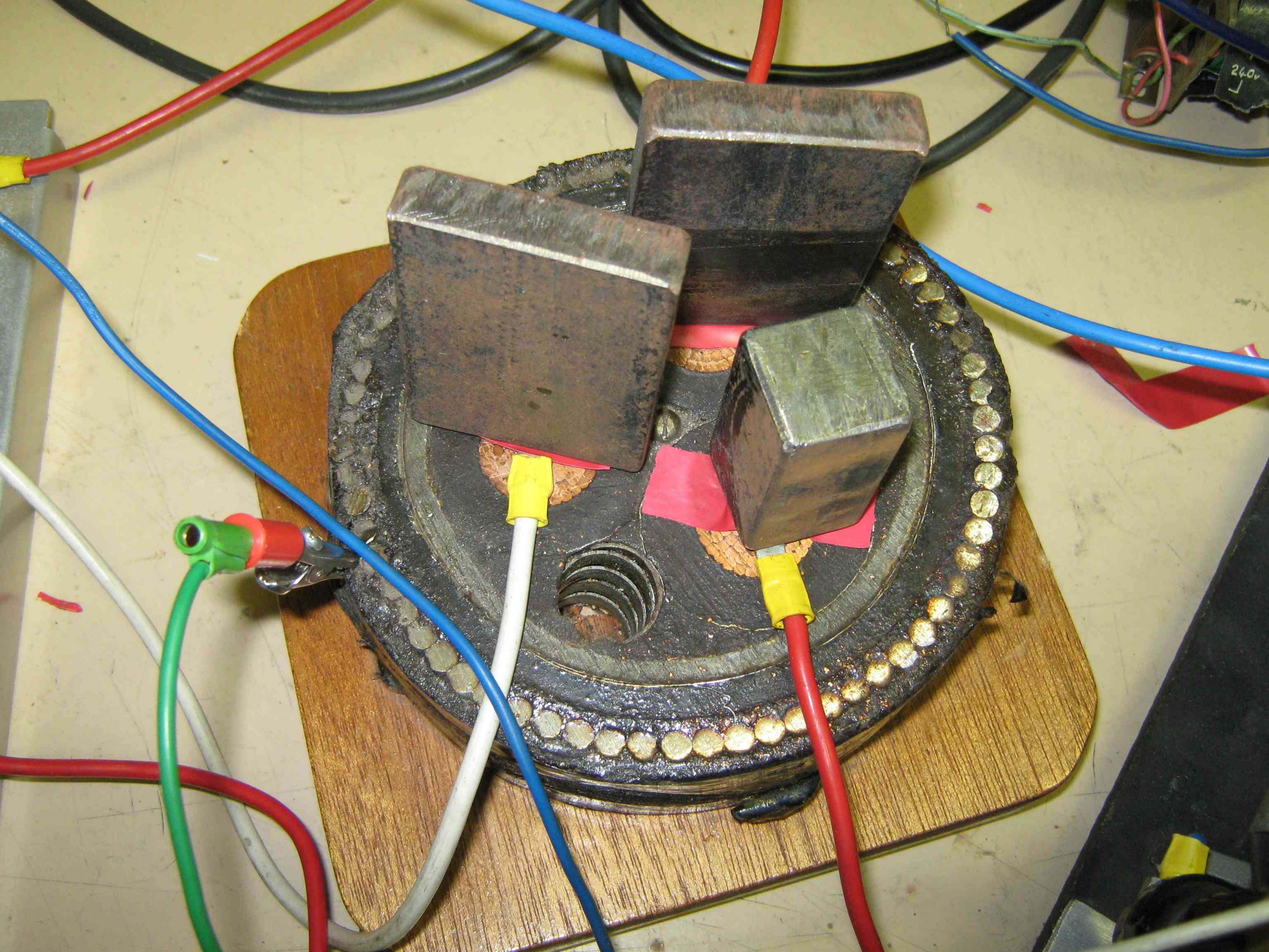
MAIN SWITCH No1

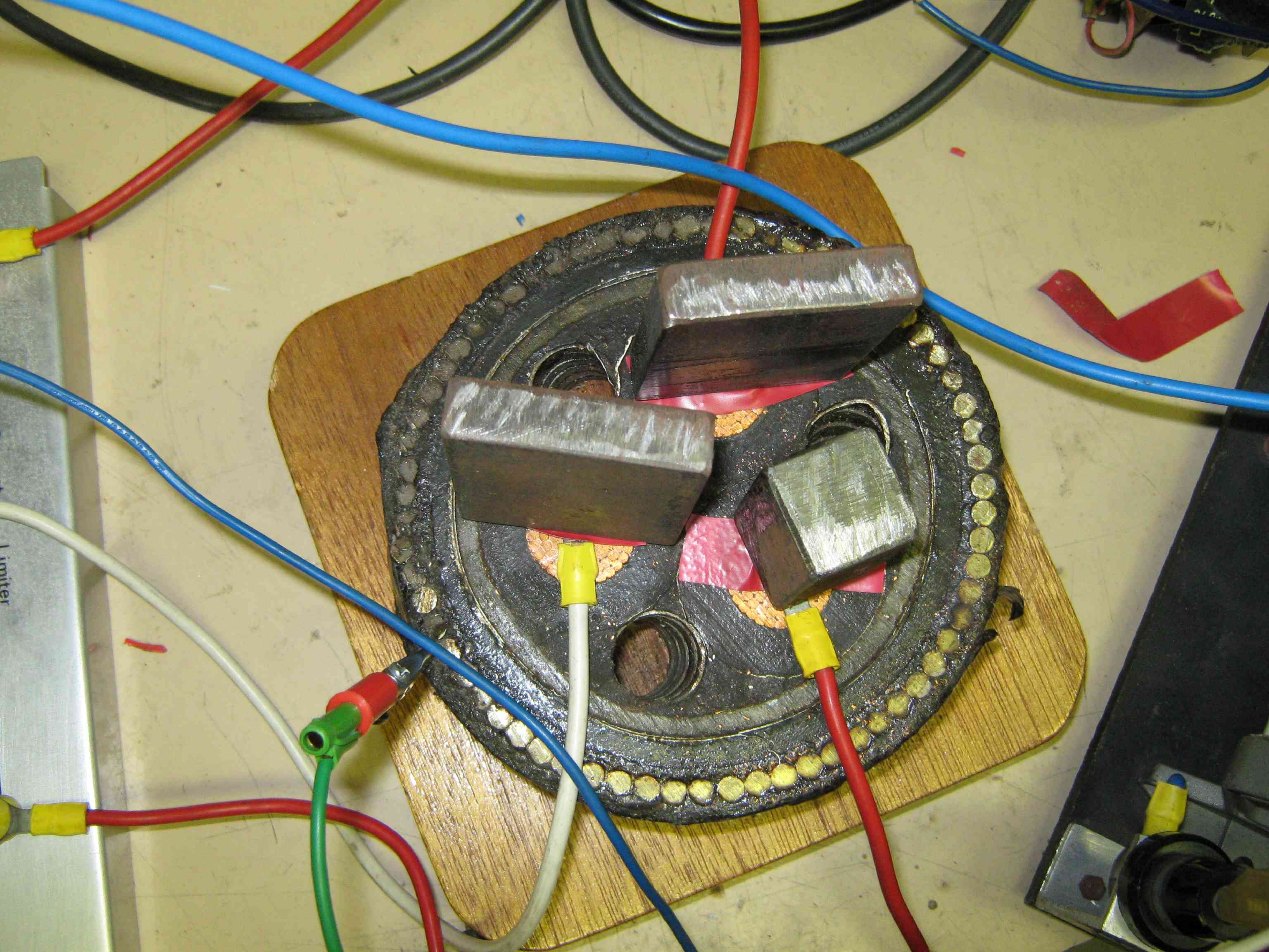
NEUTRAL

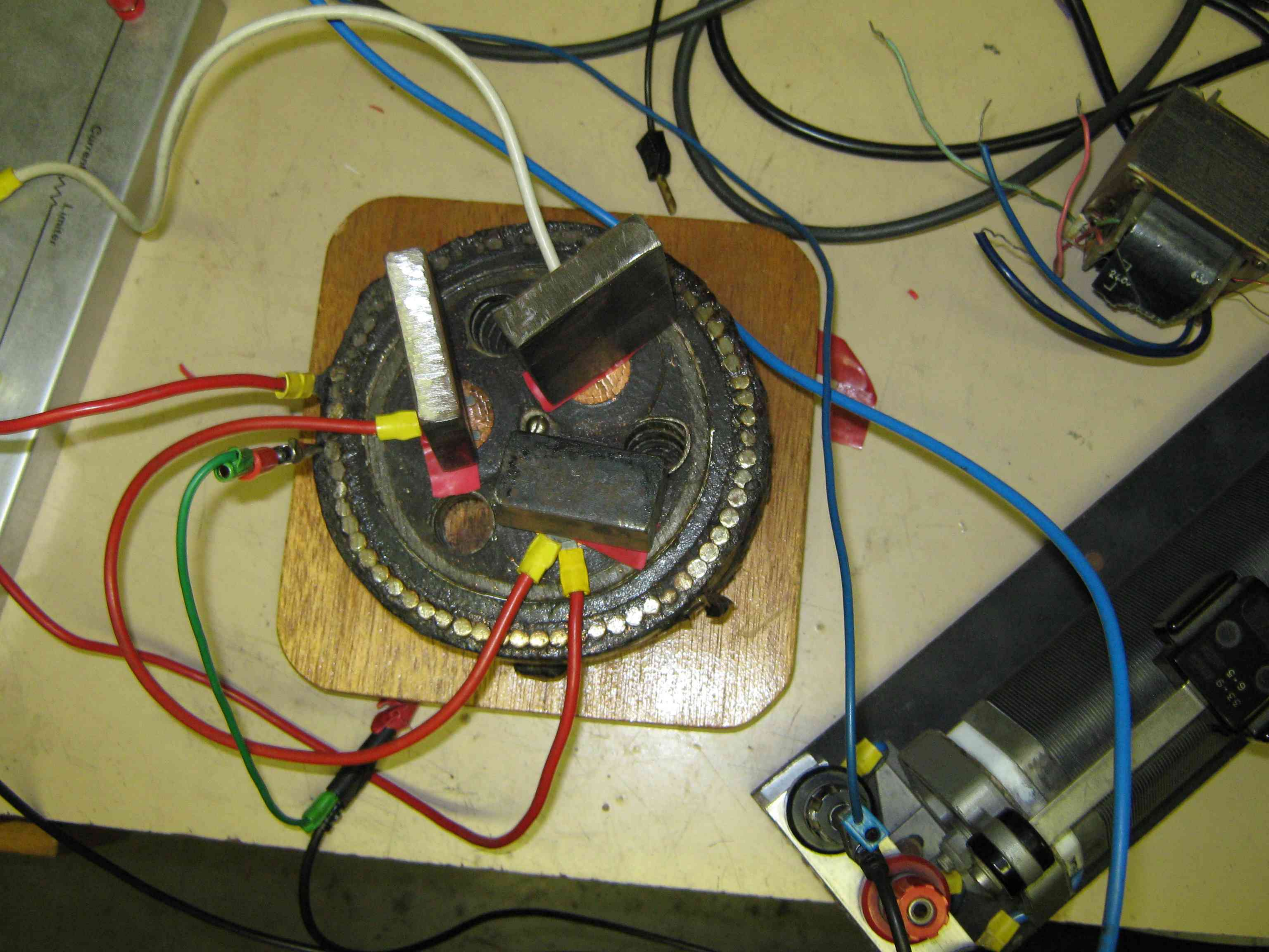
PLEASE DO NOT
PUT ANY RUBBISH ON TOP OF THE



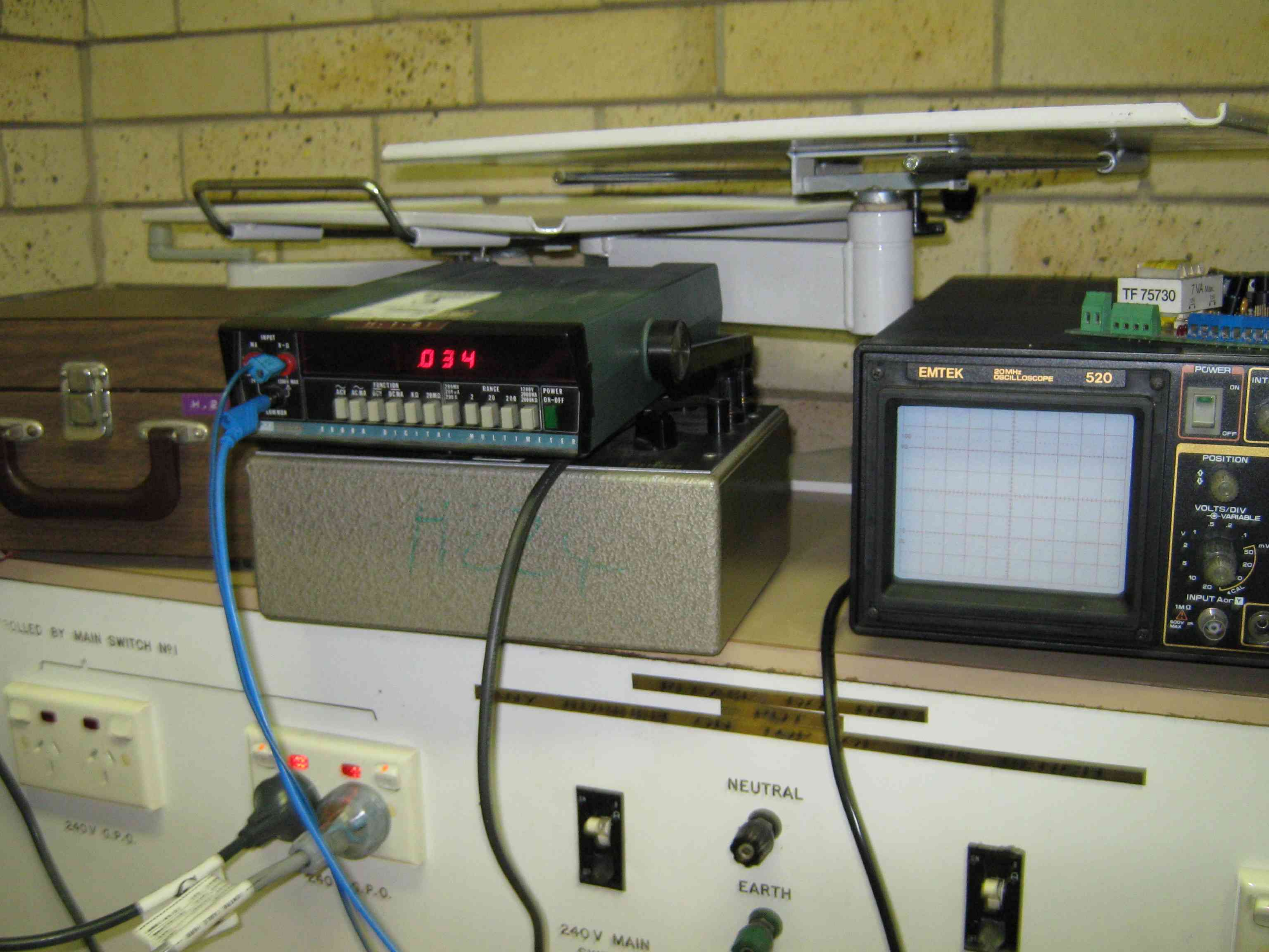










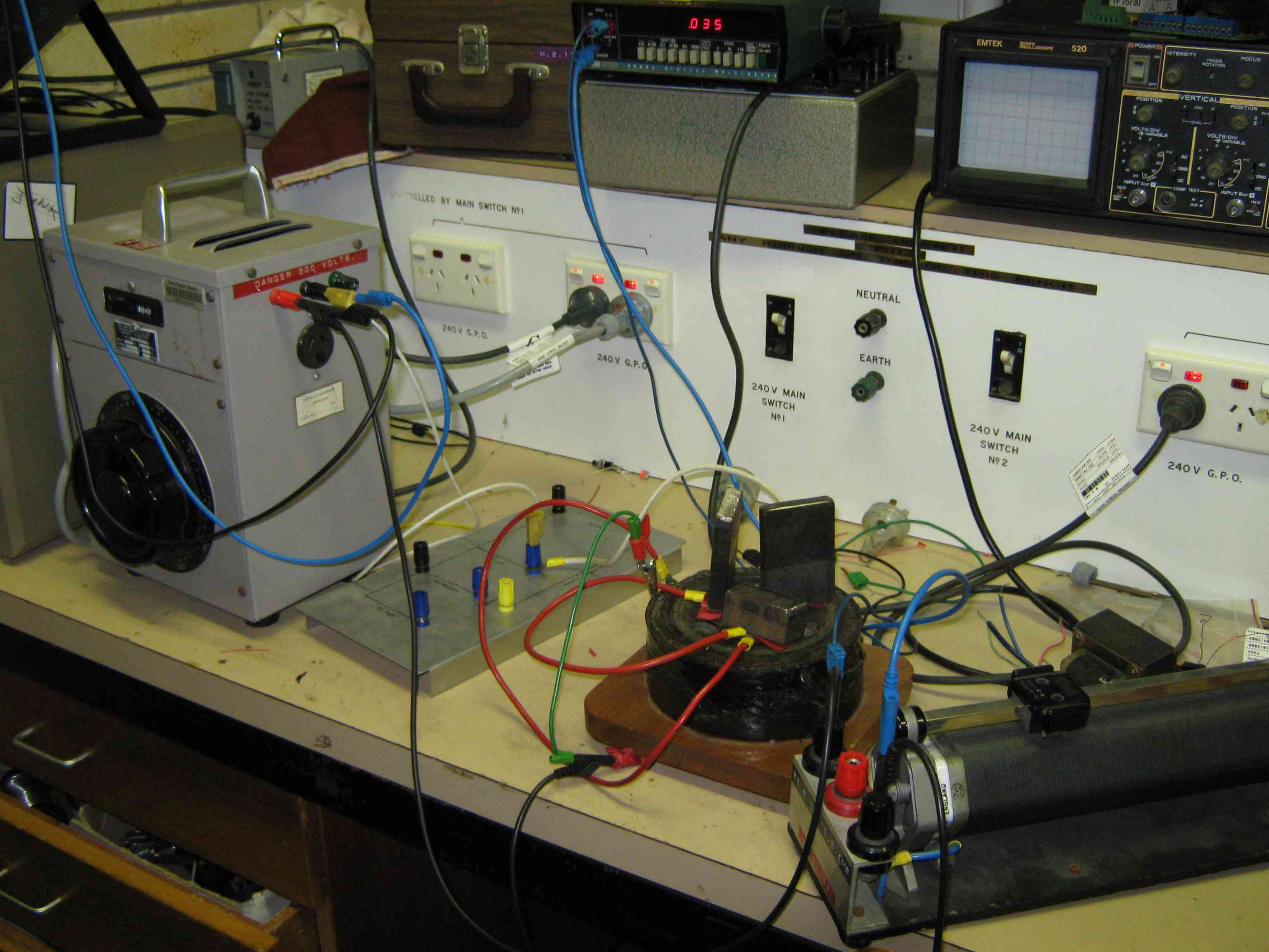


CONTROLLED BY MAIN SWITCH N°1



NEUTRAL
EARTH

240V MAIN



DANGER 300 VOLTS.

CONTROLLED BY MAIN SWITCH Nº1

240V G.P.O.

240V G.P.O.

240V MAIN SWITCH Nº1

NEUTRAL

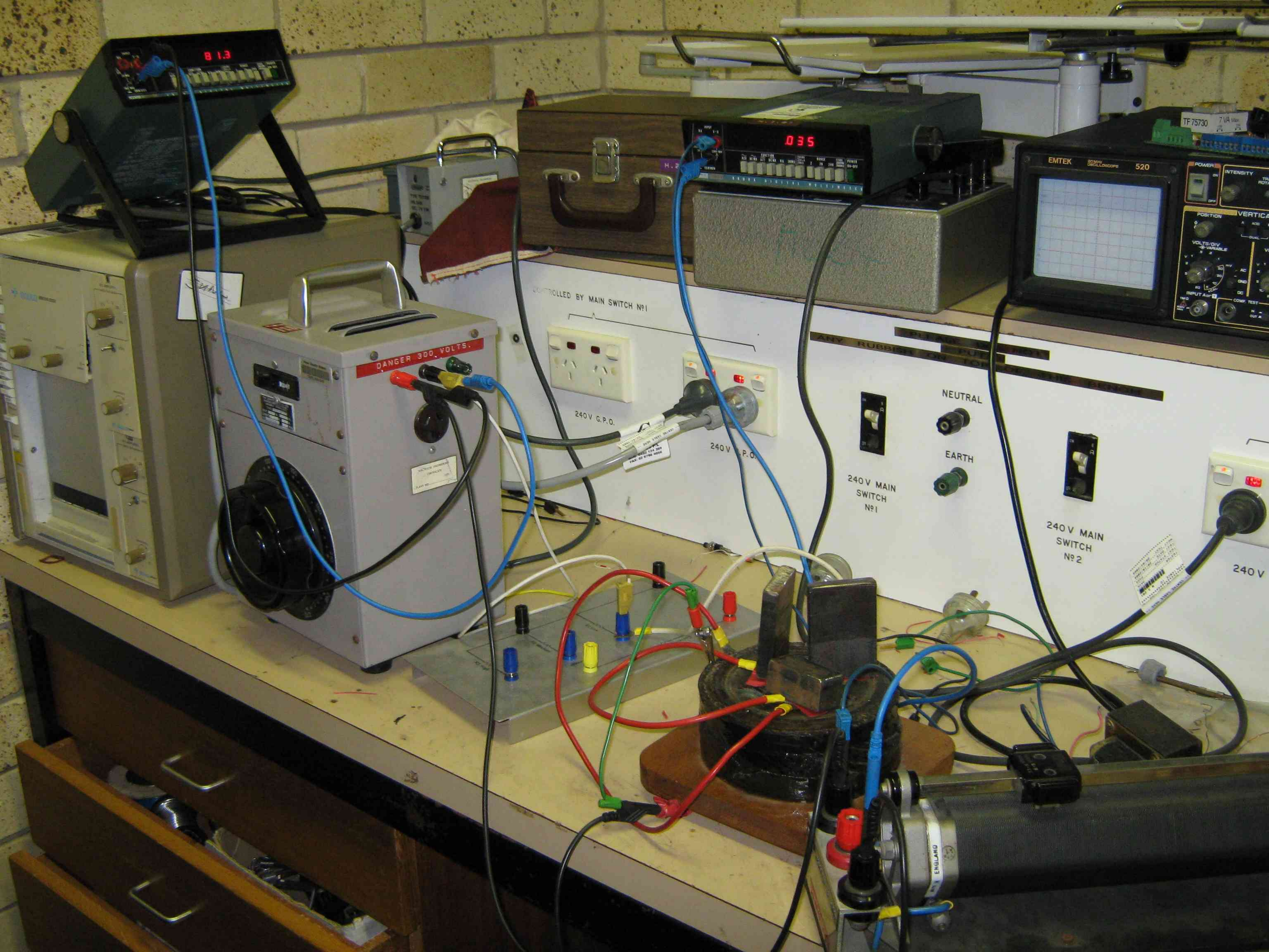
EARTH

240V MAIN SWITCH Nº2

240V G.P.O.

EMTEK 520

035



DANGER 300 VOLTS.

240V G.P.O.

240V P.O.

CONTROLLED BY MAIN SWITCH N°1

240V MAIN SWITCH N°1

240V MAIN SWITCH N°2

240V

035

7 VA Max

TF 75730

EMTEK 520

POWER

INTENSITY

POSITION

VOLTS/DIV

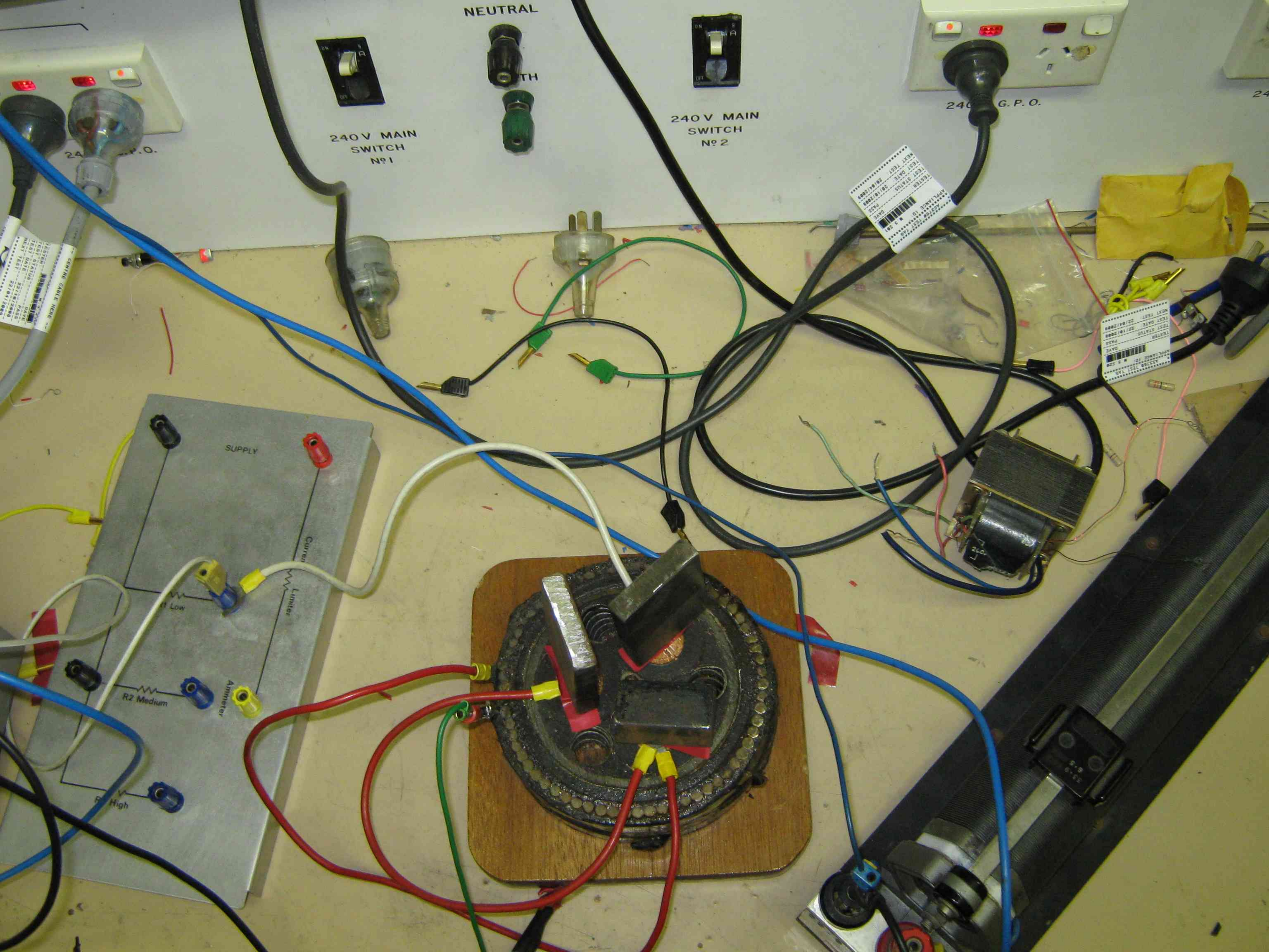
INPUT

DC

COMP. TEST

ENGLAND

240V



240 V MAIN
SWITCH
No 1

240 V MAIN
SWITCH
No 2

240 V G. P. O.

SUPPLY

Current
Limit

Low

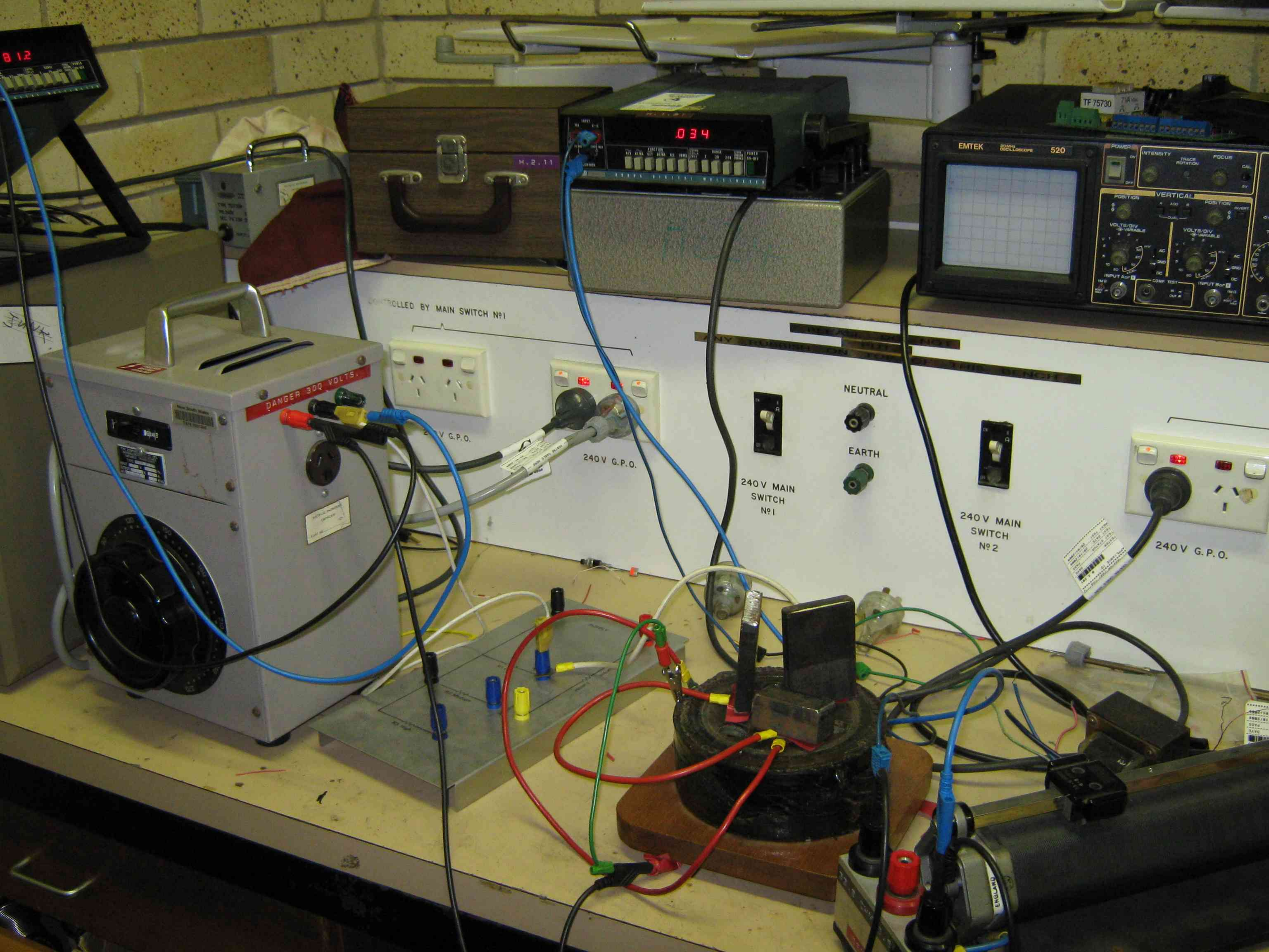
R2 Medium

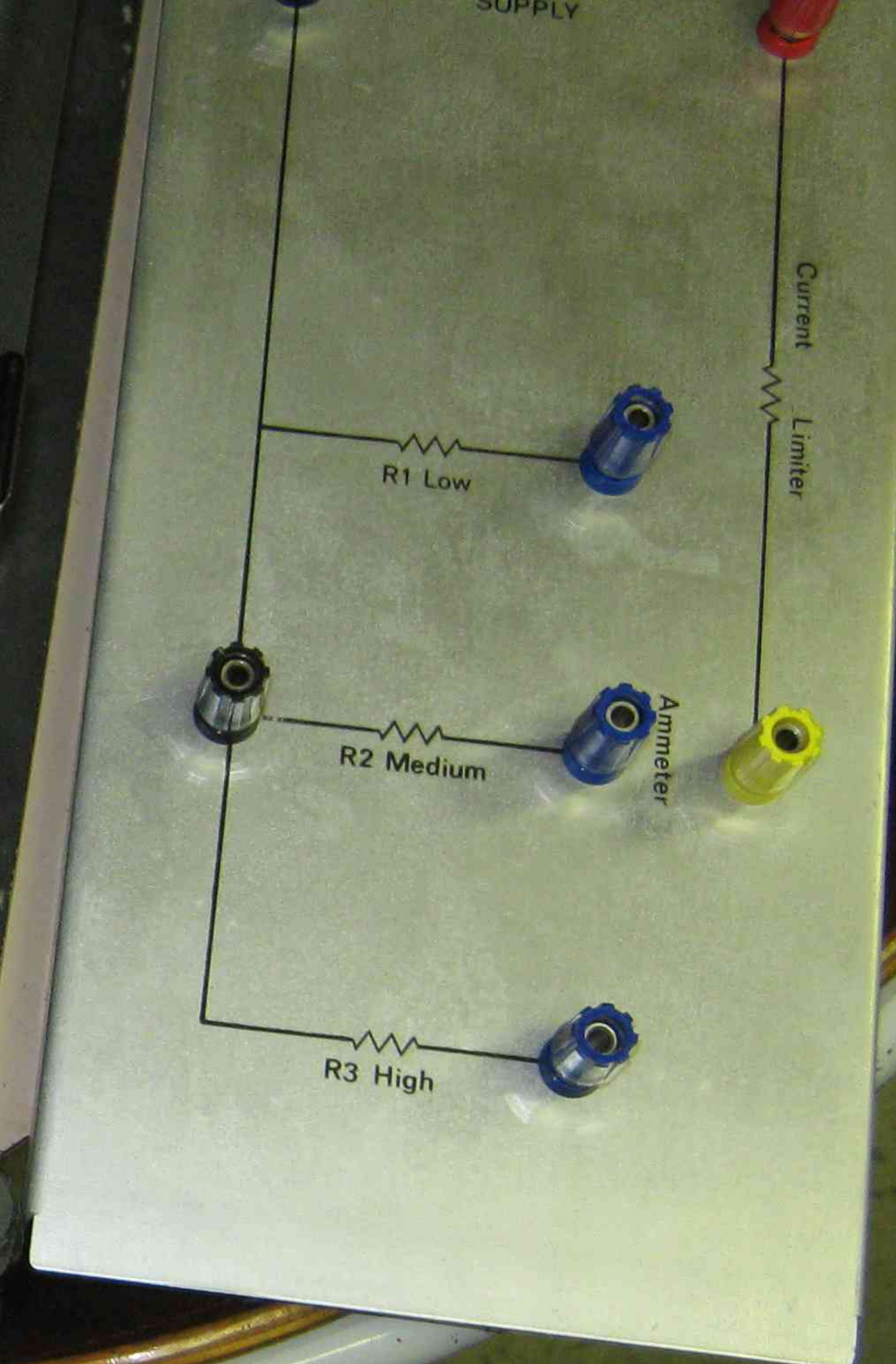
Ammeter

High

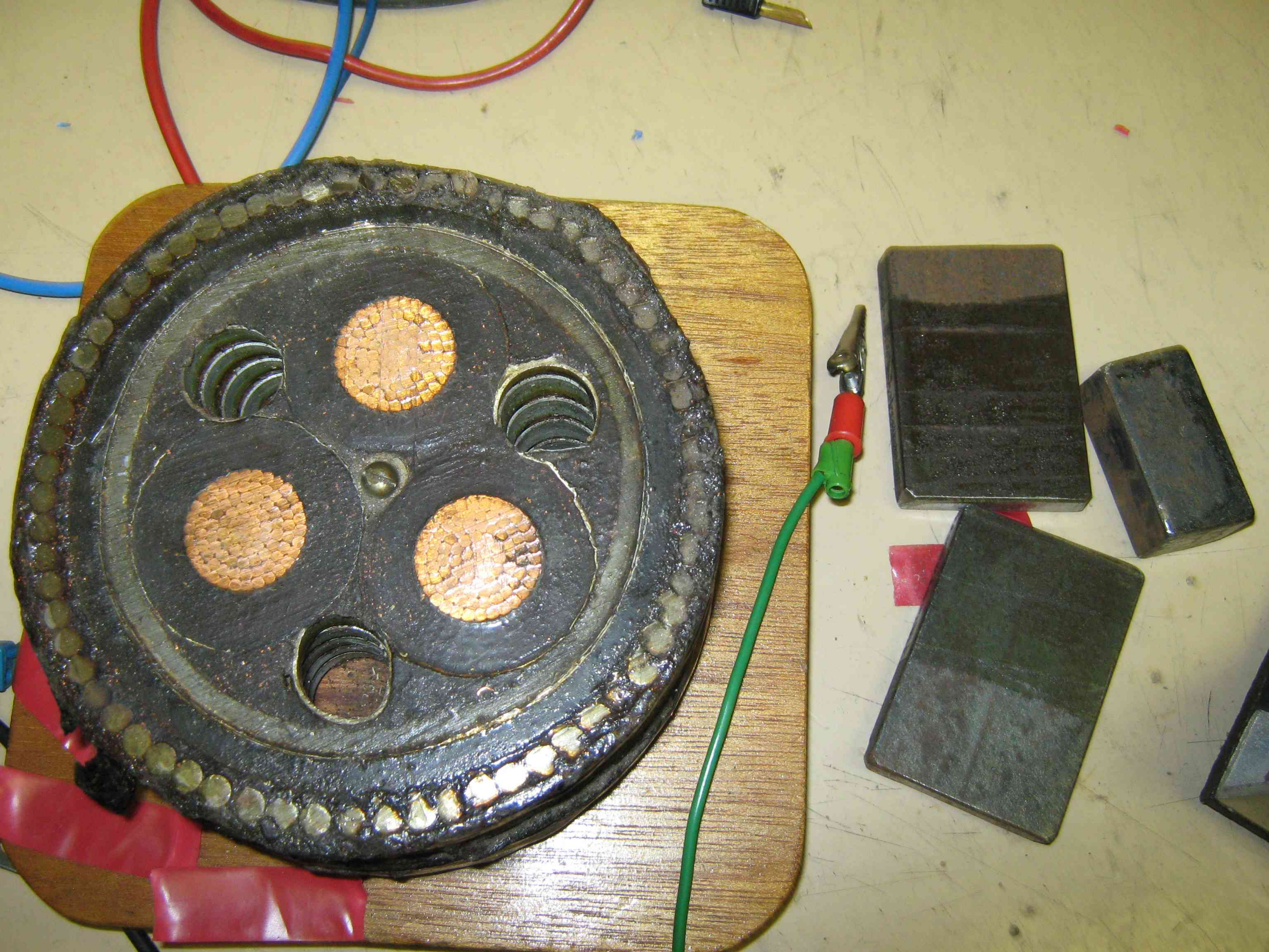
TESTER
TEST DATE: 22/04/2008
TEST STATUS: OK
TESTER: [illegible]
DATE: 22/04/2008
TIME: 10:00
APPROVED FOR: [illegible]
BY: [illegible]

TESTER
TEST DATE: 22/04/2008
TEST STATUS: OK
TESTER: [illegible]
DATE: 22/04/2008
TIME: 10:00
APPROVED FOR: [illegible]
BY: [illegible]











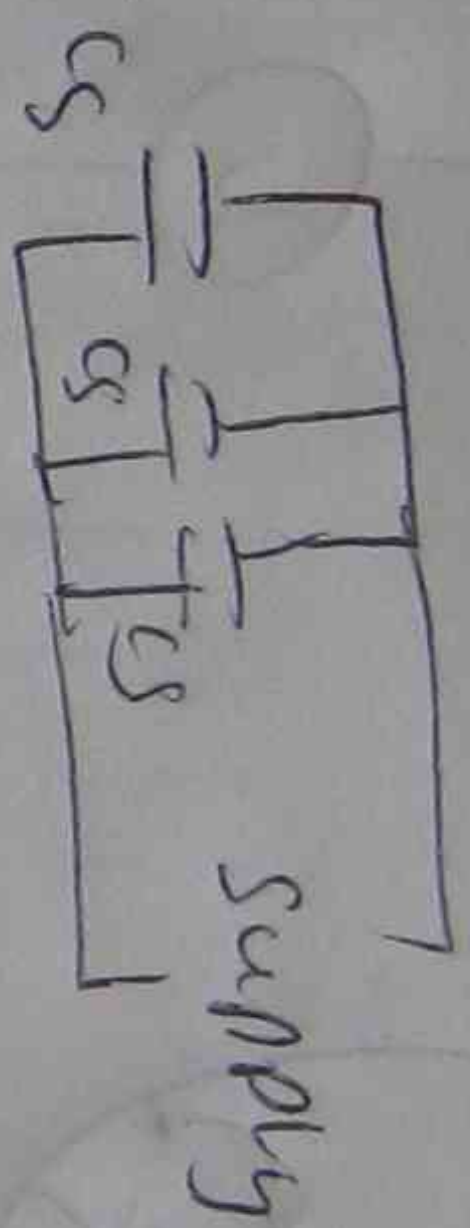
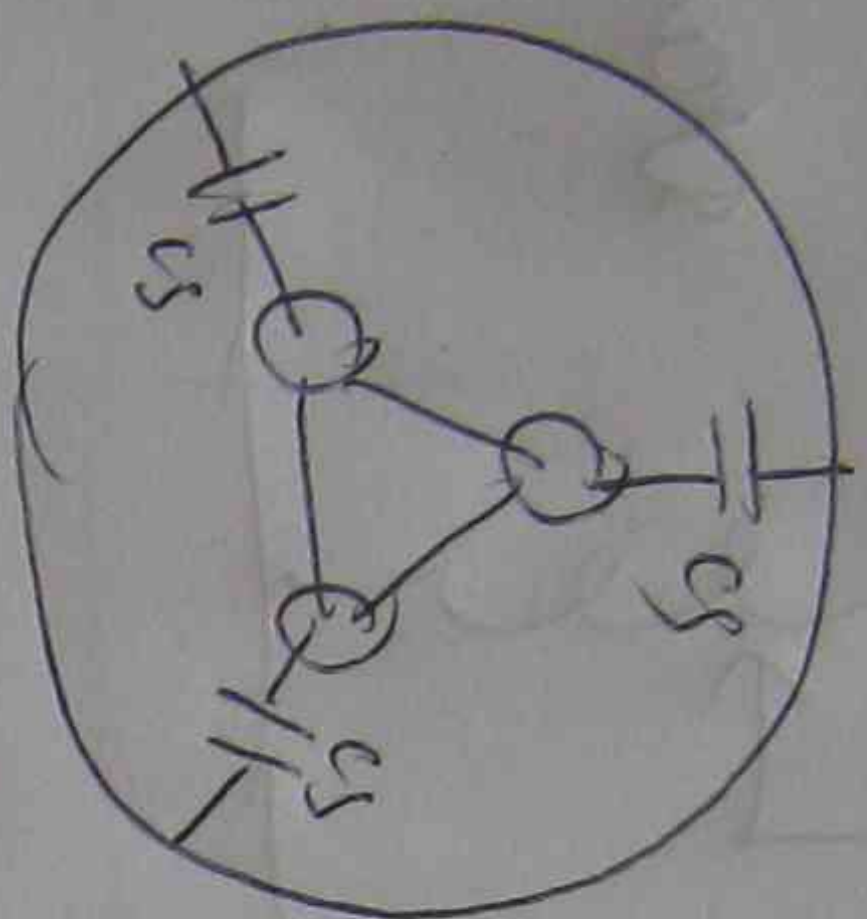
Electrical Distribution

EP 19

Underground cable capacitance test
of distribution system

PRACTICE 11

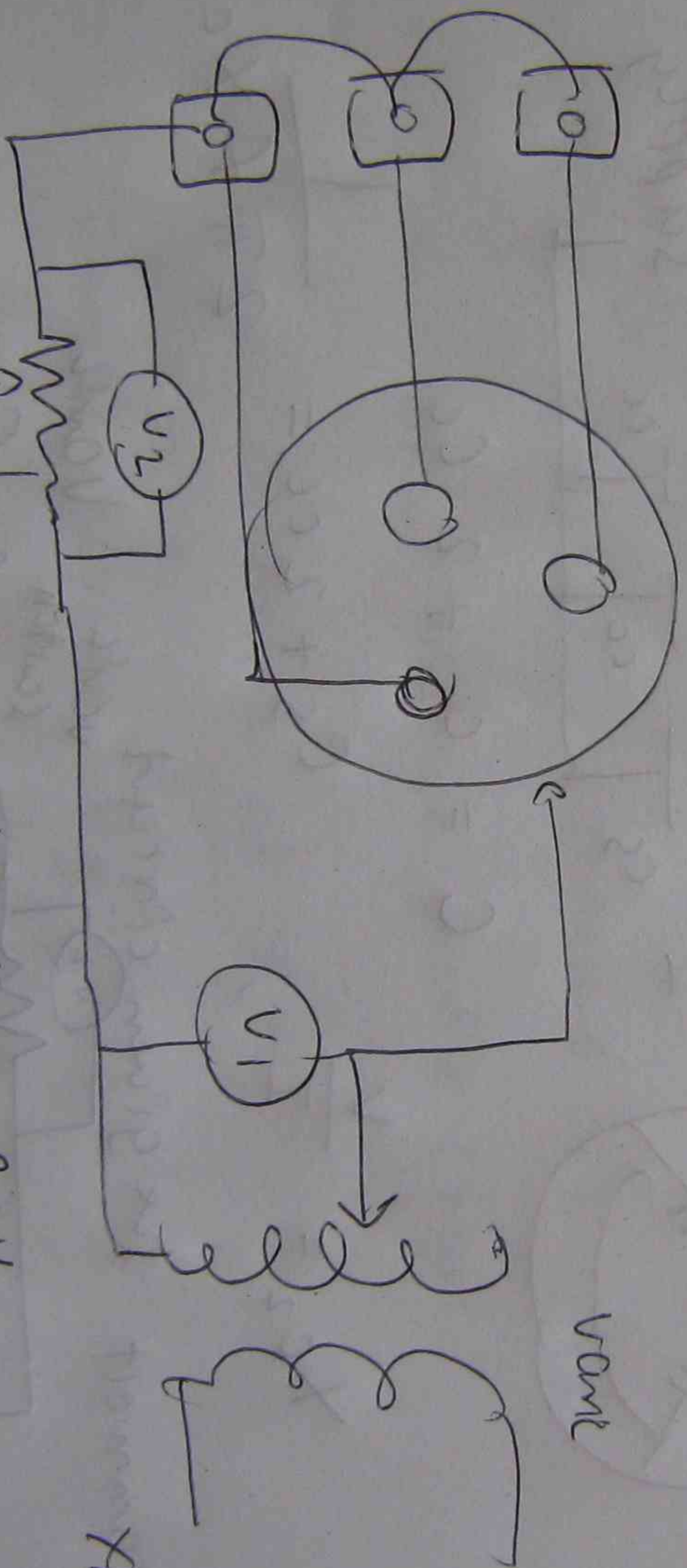
(i) Study the given calculation



$$X_{C1} = \frac{V}{I}$$

$$3C_s = \frac{1}{2\pi f X_{C1}}$$

(ii) connect the given circuit



Watt

$$X_{C1} = \frac{V}{I}$$

give $V_1 = 80V$

measure V_2

set Rheostat = 300Ω

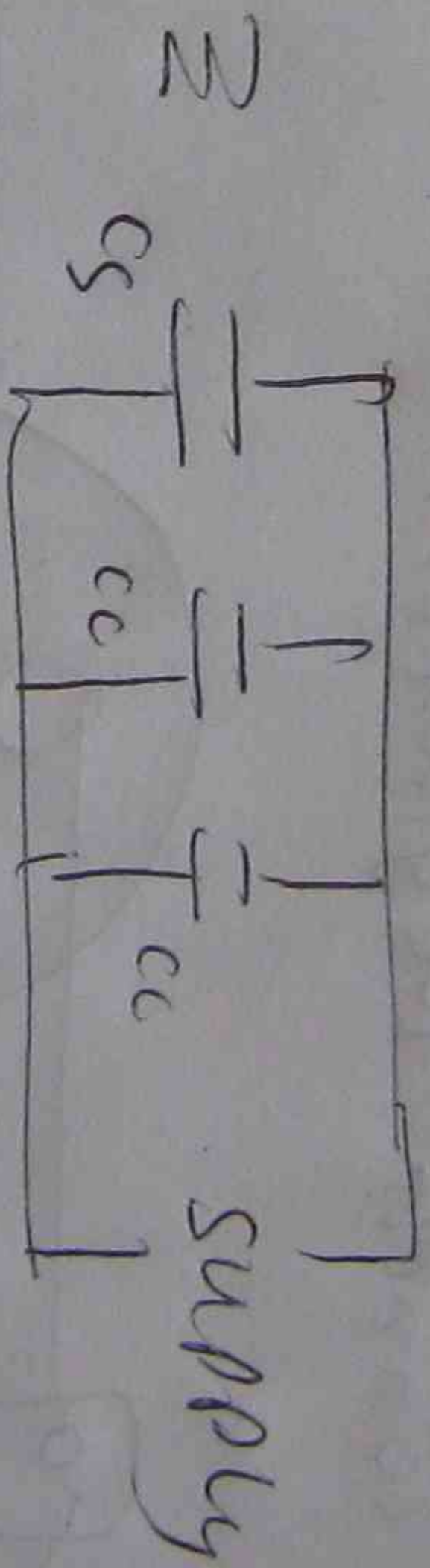
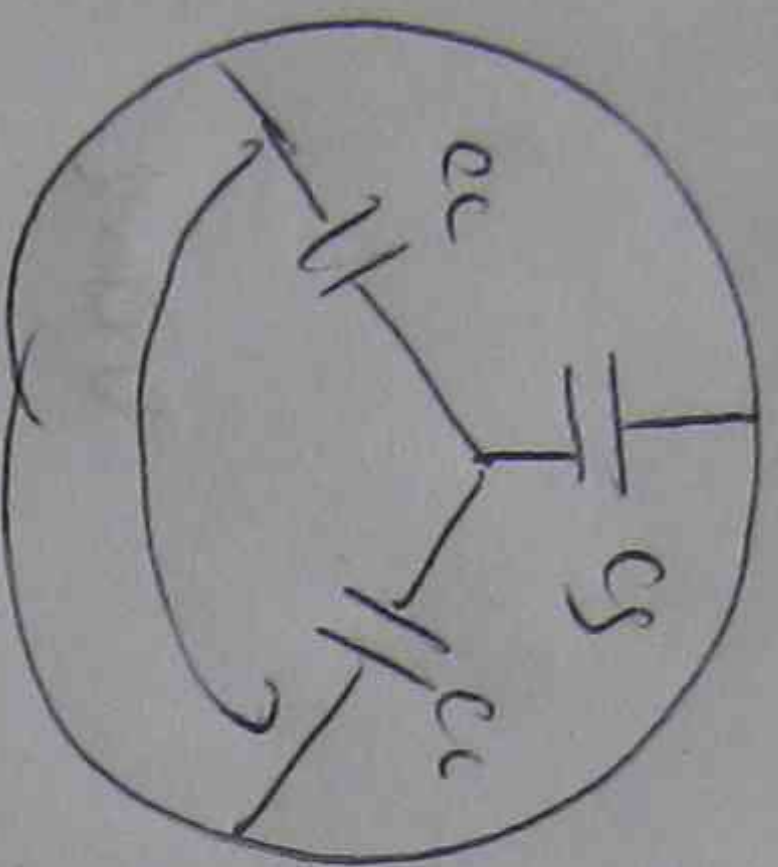
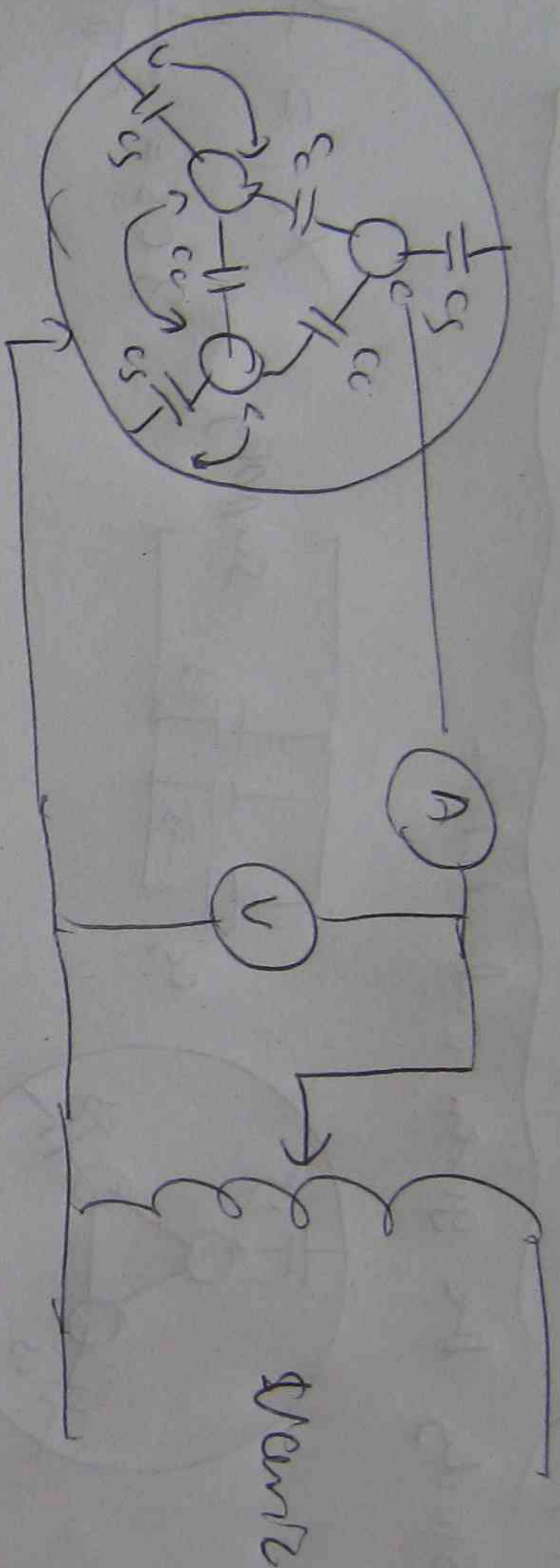
$$V_2 = V - V_2 \quad I = \frac{V_2}{R_{\text{rheostat}}}$$

Rheostat

$$X_{C1} = \frac{V = V_2}{\frac{V_2}{R_{\text{rheostat}}}}$$

Part II

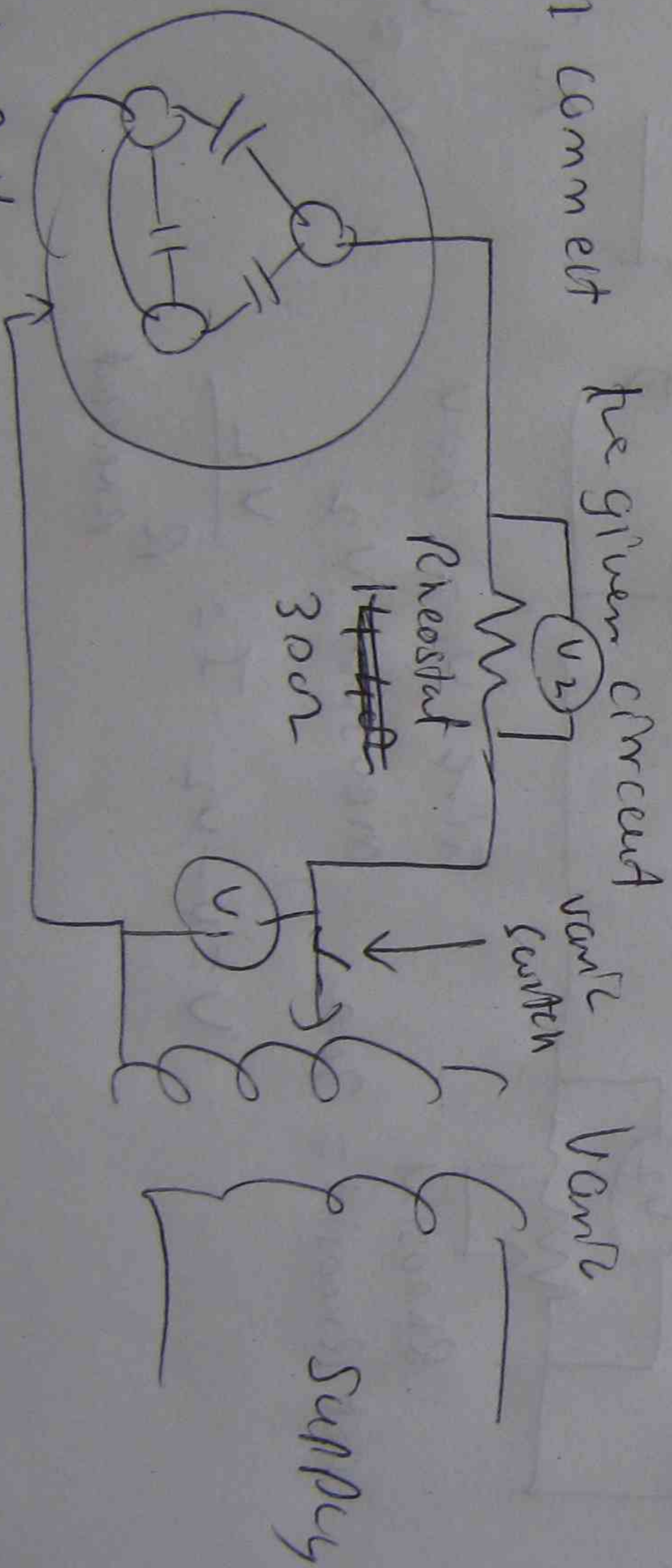
(3) Study the given calculation



$$C = C_s + 2 C_c$$

$$X_{C2} = \frac{V}{I}, \quad C_s + 2 C_c = \frac{1}{2\pi f X_{C2}}$$

(4) Connect the given circuit



$$\text{Set } V_1 = 80V, \quad X_{C2} = \frac{V}{I} = \frac{V_1 - V_2}{\frac{V_2}{R_{\text{rheostat}}}}$$

calculate C_s, C_c

(5) Switch off the main switch, what is V_1