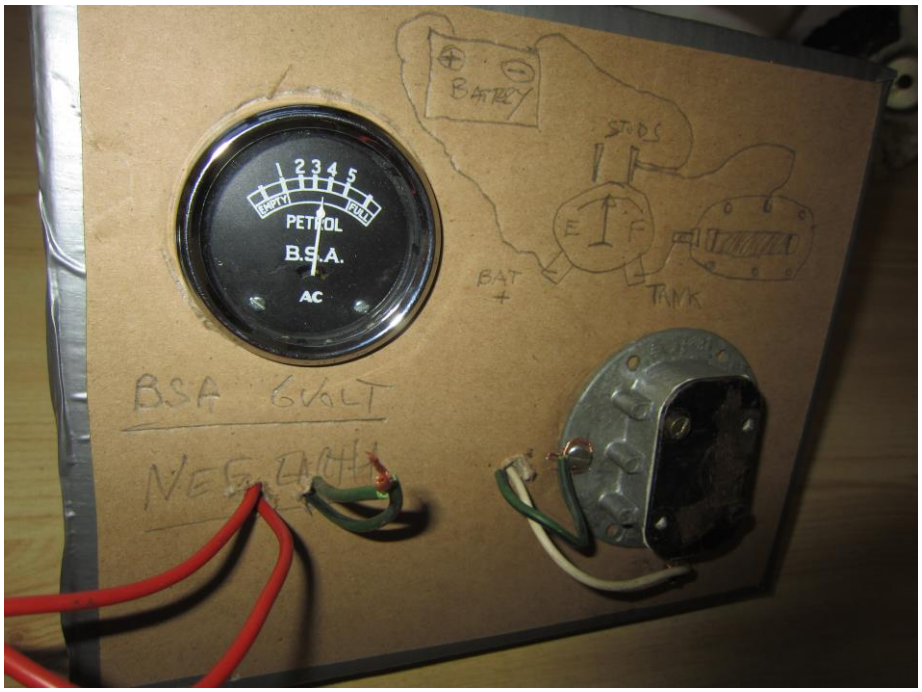
The AC sender unit, was to long for the B105 Tank so was cut and welded

A Mecano fitting joined the shortened Rheostat drive shaft



Wiring and testing of sender and gauges from 6v of 12v systems is the same principle.

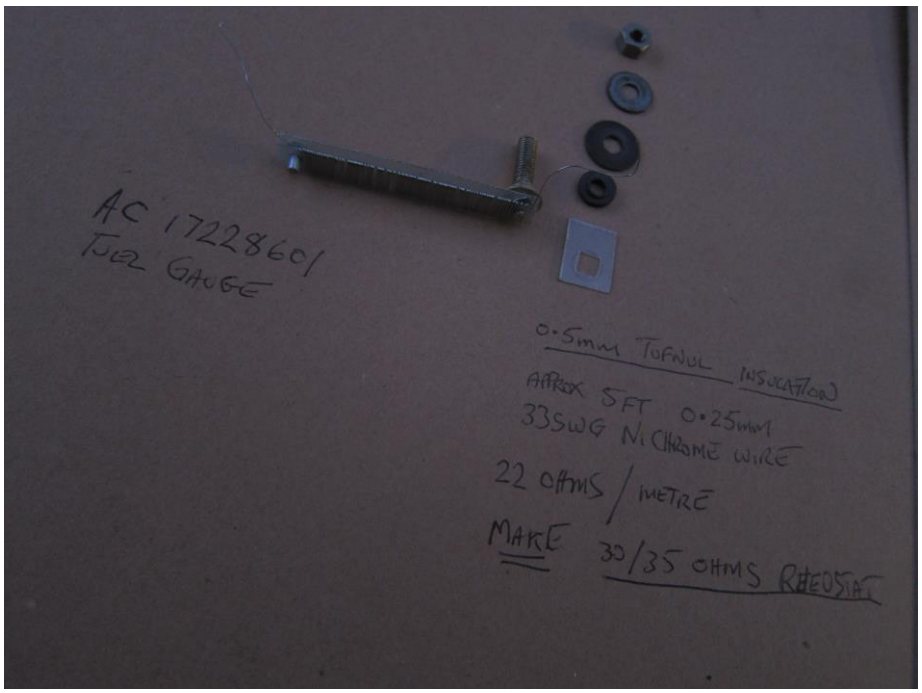
It is resistance that is being altered.



Details of wiring just follow the lines.

RHEOSTAT

This is the curved shape coil often fond burnt or broken inside the AC housing



See above for anyone who might like to try to copy and make a new one themselves.

RHEOSTAT winding

Best to have the old one in hand so you can see who it fits together in the housing.

You will need to cut, drill and file the resistance materials.

You will need to make or find a tiny ally flat head rivet

You will need to make new 2BA Stud- with square shoulder to centralise it in the insulation and with a long "tit" same diameter as ally rivet , it need to pass through two thicknesses of insulation, a thin alloy support plate , tiny brass washer , then enough to bash over and crimp the Nichrome wire. Note it is not possible to solder Ni Chrome wire only embed it.

Insulation cut from 0.5 mm Tufnell sheet. I later found it better with NOMEX 410 It is only15 thou thick and bends to shape easily.

Ni Chrome wire approx.5 foot of 0.25mm or 33swg with 22Ohms / meter resistance.

Finished rheostat will want read from 0 to 30 /35 Ohms (to bury the gauge needle to full when full.)

AC SENDER

For those who “give up “and I thought that was me once.

I made a GRP Copy of the AC housing to cover over an easy to find Smiths unit.

