



THE UNIVERSAL STAND, TEL.2501 has been designed to accommodate the whole range of TELTRON CAX 2000 tubes, magnetising coils and many other accessories.

The open manner in which the Stand "offers" to the student the experimental zone at an angle of 20° and a height of 135mm is illustrated in Figure 01; there is unimpeded access to the 4mm plugs and sockets located within the neckbrace.

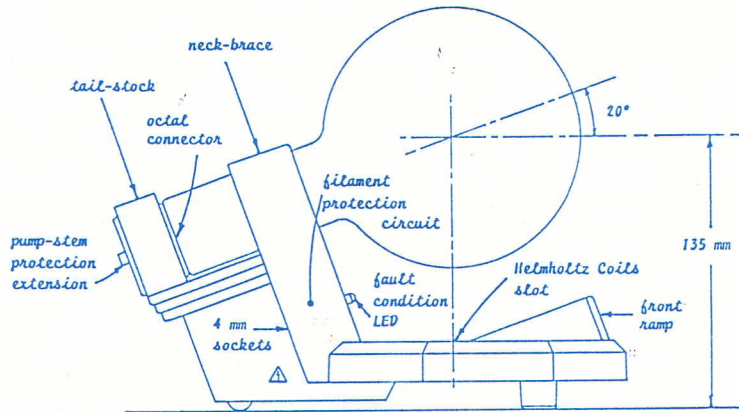


FIGURE 01

Also housed inside the neck-brace is a Filament Protection Circuit, Figure 02 with a RED LED indication of trip condition due to excessive dc or ac voltage; the trip automatically resets on rectification of the fault condition ; there is a difference of about 1.8V between the trip and reset voltages.

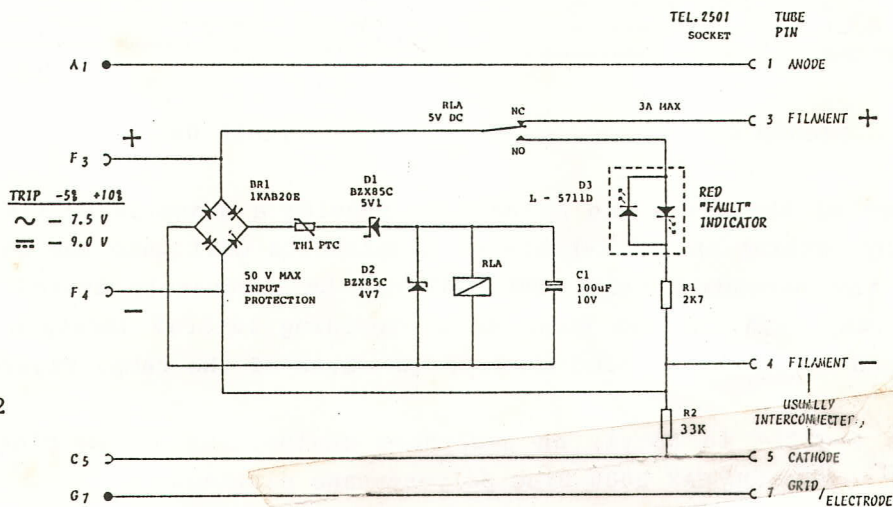


FIGURE 02

The tubes plug into an octal connector in the tail-stock; this connector can be rotated to allow the tubes to be orientated up to 5° to either side of vertical.

Tubes can be extracted by applying an action/reaction pressure with the middle finger on the pump-stem protection extension, moulded into the base of each tube, and the thumb on the tail-stock.

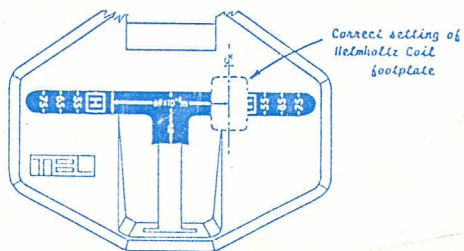


FIGURE 03

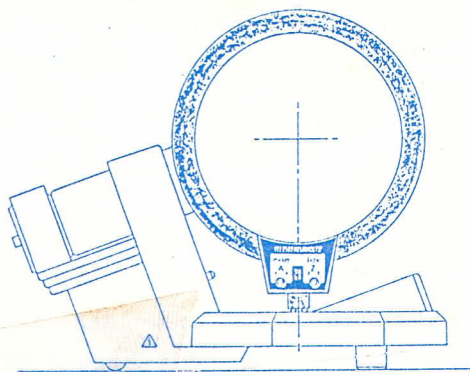


FIGURE 04

The foot-plate of the Helmholtz Coils, TEL.2502 is located into the central opening of the slot across the base of the stand and then slid to the appropriate position, Figure 03 ; there is a metric scale within the slot which allows the coils to be accurately set in the Helmholtz configuration, Figure 04 ; tubes can be mounted or extracted with the coils set at the maximum spacing of 150mm.

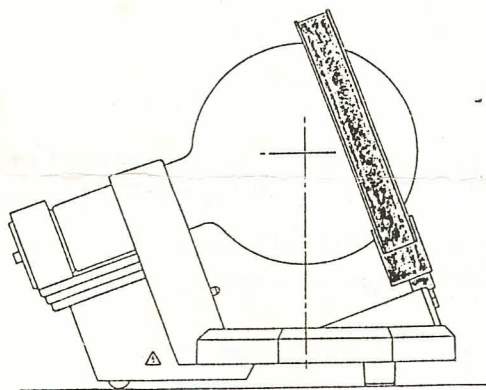


FIGURE 05

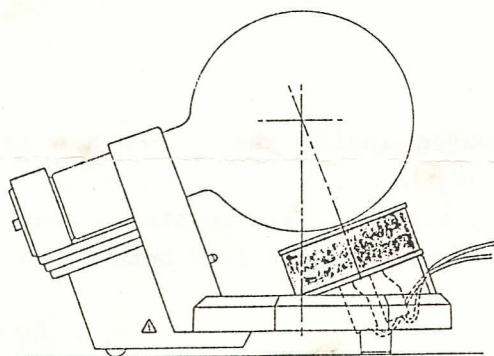


FIGURE 06

The front ramp of the stand can be used to provide a magnetising field co-axial with a tube by setting the foot-plate of a Helmholtz Coil into the ramped slide, Figure 05 ; the Secondary Coil, TEL.2507 can be accurately seated on the top face of the ramp with the 4mm connectors providing lateral location within the ramp cavity and the leads trailed through the mouth of the ramp, Figure 06 .

The stand is moulded in Noryl, an amorphous engineering thermo-plastic and is finished with a TELTRON CAX 2000 Blue polyurethane coating.

The stand is mounted on 3 rubber feet and weighs 570g.

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