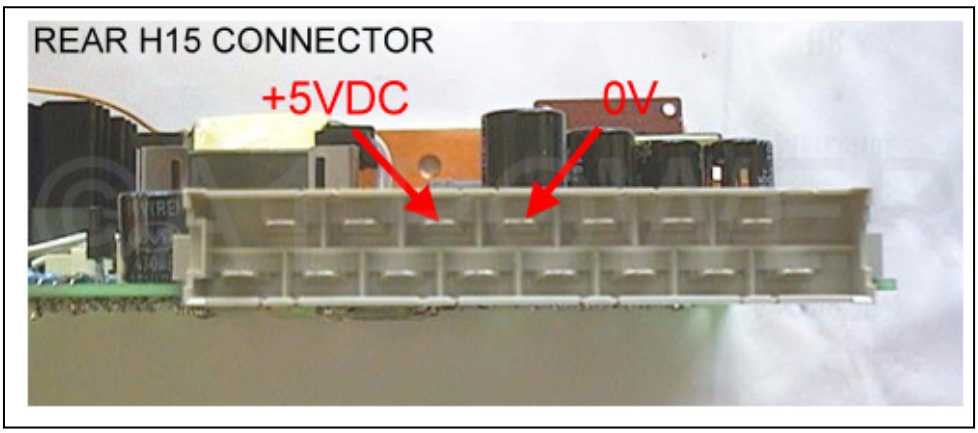
S200/Z010/2 QUICK GUIDE TO CHECKING :

The S200/Z010/2 provides output voltages of 5V, 12V, 12V and -12V from an input source of either 115Vac or 230Vac +/-10% (selected via pcb link). Usually configured for 115Vac operation.

To accurately test and recalibrate the product the psu should ideally be removed and tested under various load conditions to the original specification (which we hold). However, as a rough guide to determine whether the psu is functioning the following check can be made.

Most commonly the fault with the unit will be such that there are no output voltages present due to complete failure of the primary circuit. This can be confirmed by plugging in the mains voltage (110Vac) to the front of the grey assembly (IEC connector). Ideally remove the Z010 psu from the grey housing and apply 110Vac directly to the input connector of the psu on a bench.

At the rear of the unit, using a suitable DVM measure the 5V output the 15 Way H15 Din connector. Check that this reads approximately 5V on the pins as shown below (if the 5V is missing all other outputs will also be missing and the unit is faulty). Other voltages will be present on other pins but will measure low without loading applied to the 5V.



If the output is present the unit may be functioning or the fault may be such that the unit is not functioning correctly (unstable) under load conditions and would require removing and an external load applied to all outputs to determine correct operation. A quick visual inspection of output capacitors can provide an indication of this failure mode (bulging / leaking capacitors / burn't pcb). There are other modes of failure which could cause instability under load but which are outside the scope of this document.

In both cases of failure we recommend that you send the unit for full refurbishment, testing and recalibration to the original Ferrus test specification to A1 Power Engineering (UK).

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