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BULLETIN #162

SYNCHRO-PULSE CDT 450**OUTPUT TERMINALS LIVE**

When the CDT450 is powered up and the output terminals are live, it is accompanied by a fault message on the display stating "Output Terminals Live". There are several possible reasons for this:

1) Build up of conductive dust inside the transistor heatsink assembly, which bridges between the main heatsink and side plates. This fault particularly occurs in an aluminium welding environment and under damp or humid conditions.

Solution : Clean the insulators to remove the accumulation of conductive dust (see Service Bulletin 108). Also, consider using an air intake filter. WIA part number for the filter kit is AM249-0.

2) Breakdown of NPN Power Transistors (with or without load). Disconnect the base signal (two orange wires) to the three NPN power transistors and if voltage is still present on the output terminals, it is likely the power transistors are faulty.

Solution : Replace the faulty CP38-21/16 power transistor. It is not always necessary to change all three transistors.

3) Failure of CP38-12 Transistor Driver PCB. Disconnect the base signal to the three NPN power transistors. If there is no voltage on the output terminals, the Transistor Driver PCB may be faulty.

Solution : Replace CP38-12 Transistor Driver PCB.

4) Failure of CP38-13 Background Driver PCB. Disconnect one of the two nichrome resistors in the circuit. If there is no voltage on the output terminals, the Background Driver PCB may be faulty.

Solution : Replace CP38-13 Background Assembly.

5) Failure of CP38-20 Snubber PCB. Disconnect either the red or black wires from the circuit. If there is no voltage on the output terminals, the Snubber PCB may be faulty.

Solution : Replace CP38-20 Snubber PCB.


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QUALITY WELDING PRODUCTS, SYSTEMS AND SERVICES

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