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BULLETIN.007

## WELDMATIC 160S: CP101 CP101-11 TRIAC CONTROL PCB

In early version machines, the CP101-11 Triac Control PCB was found to be unsatisfactory, and is now replaced with a new assembly, part number CP101-31.

To facilitate easy replacement, by ordering a CP101-11, a 'replacement' kit will now be supplied, which includes a new CP101-31 PCB, loom, hardware and installation instructions.

Attached is a copy of the installation instructions.

## FITTING REPLACEMENT KIT CP101-11

AS MAINS VOLTAGE WIRING IS INVOLVED, ONLY QUALIFIED SERVICE PERSONNEL SHOULD ATTEMPT THIS PROCEDURE. DISCONNECT THE MACHINE FROM THE MAINS SUPPLY BEFORE COMMENCING WORK.

### KIT COMPRISES

- 1) PCB Assembly CP101-31
- 2) Loom Assembly CP101-35
- 3) Aluminium Stiffener CP101-11/11
- 4) 1/8" Whit. Fixings
- 5) Three Crimp Connectors CP102-0/19
- 6) Cable Ties

### DISCONNECT MAINS

1. Remove existing CP101-11 PCB, ~~and~~ Triac & wiring.
2. Disconnect two black wires from gas valve, and two orange wires from thermostat. Cut three control transformer secondary leads from 8 pin Molex connector. Carefully strip and clean these ends. (Remove 8 pin Molex Connector from CP101-10 wire feed board.)
3. Fit aluminium stiffener to component side of CP101-31 PCB. Retain with counter-sunk screw etc. at the "Mains Voltage" end, and tighten. Fit PCB to 160's front panel. Fit round head screw through front panel hole, PCB and aluminium stiffener. Fit washer and nut. Tighten potentiometer nut and R.H. screw. Fit potentiometer knob.
4. Plug 4 pin Molex plug from loom onto CP101-31 and 8 pin Molex onto CP101-10. Connect black wires to gas valve, orange to thermostat.
5. Find control transformer secondary lead with double conductors (centre tap). Crimp these to pair of black wires. Crimp pair of red wires to one C.T. winding leg, and single red wire to the other.
6. Fit Triac to centre panel. <sup>After</sup> Cleaning both surfaces and apply <sup>ing</sup> film of thermal paste. Fit green wire under one screw.
7. Fit blue and white wires to terminal block as illustrated below.
8. Use cable ties to retain loom in place.

