



Service Bulletin



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BULLETIN # 244

CP110, 115, 116, 121 & 122

REPLACEMENT FOR CP110-10/1N, ROTARY SW INCL DUST COVER&KNOB

The voltage adjustment switch used in the Weldmatic 150, 175 and 175S (CP115, CP116, CP121 CP122-0 and CP110) is no longer available.

E0063, SWITCH ROTARY 3 POSITION may be used as a satisfactory replacement. The knob for E0063 is available as part number M0048, KNOB SWITCH.

The following points should be noted:

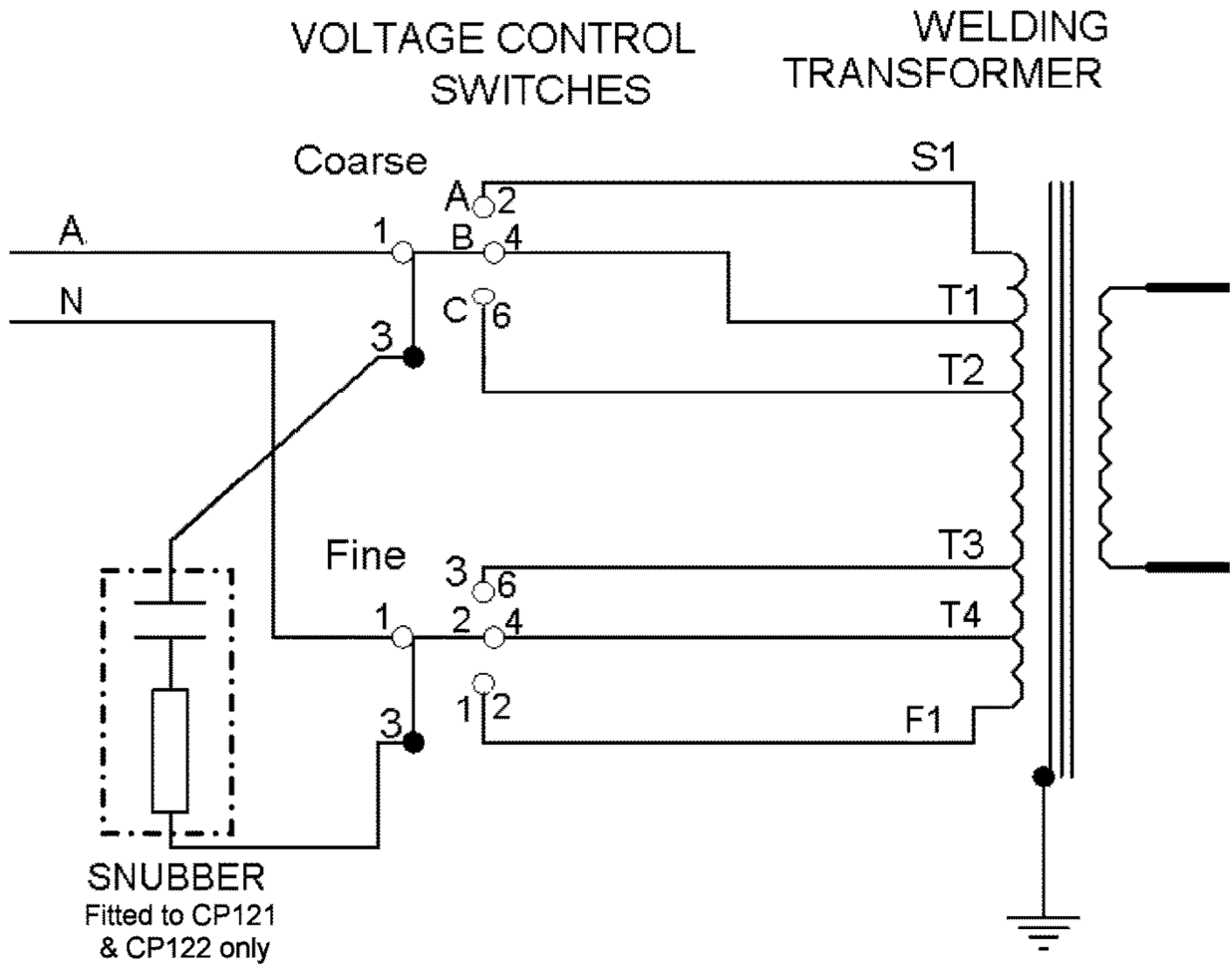
- the new switch rotates 45 degrees per step, whereas the old switch moved 60 deg per step. This means that careful alignment is required when drilling mounting holes for the new switch to ensure that the knob indicates correctly.
- with the knob temporarily fitted to the switch shaft, turn the switch to its mid position. Note the orientation of the 2 switch mounting holes while the indicator on the knob is pointing to the middle switch position on the welder front panel (Coarse "B", or Fine "2"). Drill 2 new mounting holes, 4.5mm (3/16") diameter, 29mm (1 1/8") apart, in the front panel. The position of the holes must allow the indicator to point towards Coarse "B", or Fine "2" (as appropriate, depending on whether the coarse or fine switch is being replaced) when the switch is rotated to its middle position.
- secure the new switch to the front panel and fasten the knob with its screw. Check that the knob indicates correctly for all 3 positions. The new indicator will point to a position slightly short of the 2 extreme markings, however if the centre indication is accurate, then the 2 outer positions will quite satisfactorily indicate the correct selection.
- connect the wires as per diagram on page 2. The old switch had spade terminals, whereas the new switch has one spade terminal with the others being screw terminals. Suitable terminations will need to be provided on the transformer wires for these screw terminals.
- depending on the particular power source, some components inside the power source may need to be shifted slightly to allow sufficient clearance. It is vital that correct clearance is allowed for the 240 volt cables going to/from these switches.
- secure electrical cabling with cable ties.
- check that the open circuit voltage increases in even steps while the voltage selection switches are rotated from A1, A2, A3, B1, B2, B3, C1, C2, C3.
- refit covers and test machine operation.

The information provided in this sheet is accurate and reliable, however no warranty of accuracy or reliability is given and no responsibility arising in any other ways by errors or omissions is accepted. Any information involving mains or high voltage is intended for use by qualified electrical personnel only.



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