

<b>B</b>	Title	Part No.
	<b>QUALITY CONTROL TEST SPECIFICATION</b>	<b>6170-935</b>
	1st Used On : BT51	Sheet 1 of 2

1. Visual  
Check for correct component assembly ie. Bezel, switch knob, terminals, neons, etc.  
  
Check front panel for any defects in paint finish and legend.  
  
Check case for correct mechanical assembly and finish.
2. PAT Test  
Ensure instrument passes PAT tests for Earth Bond (less than 0.2Ω short term test) on green and red LED holders at 25A and 1.5kV Flash Test on socket screws.
3. Test Current  
Connect a Model 8, DA117 or similar instrument switched to measure dc current between the two C terminals. Switch instrument ON. A current of 2A +25% -0% should flow. Turn instrument OFF and remove meter from C terminals.
4. Protection  
Short C1 to P1 and also C2 to P2. Connect the terminal pairs C1 P1 and C2 P2 to 240V ac – 6%. The protection relay should not operate the instrument will indicate over-range on both the 2000mΩ range and the 20mΩ range. Switch OFF instrument and remove 240V connections.
5. Segment check  
Short C1 to P1 and C2 to P2. Connect variable resistor to instrument, switch ON instrument and adjust for display of 888 to ensure that all segments light up. Switch OFF instrument.
6. Operation  
Connect Duplex handspikes and check the following points:
  - a) 2000mΩ range:-
    - 1900mΩ to be within – 21mΩ
    - 1000mΩ to be within – 12mΩ
    - 0 to be within – 2mΩ
  - b) 20mΩ range:-
    - 19mΩ to be within – 0.21mΩ
    - 10mΩ to be within – 0.12mΩ
    - 0 to be within – 0.02mΩ

All points should be within 1% – 2 digits. Remove duplex handspikes and turn instrument off.

TEST GEAR REQUIRED:-

*COMPUTER GENERATED DOCUMENT - NO MANUAL CHANGES PERMISSIBLE*

Issue	Date	CN .No.	Compiled By : M.GREEN	Changes to be Notified To :	
3	2.12.92	13029	Date Compiled : 2.12.92		

B	Title	Part No.
	<b>QUALITY CONTROL TEST SPECIFICATION</b>	<b>6170-935</b>
	1st Used On : BT51	Sheet 2 of 2

1900mΩ Standard

1000mΩ Standard

19mΩ Standard

10mΩ Standard

Duplex handspikes

Shorting links or wires

240V ac supply

DA117 or Model 8 or similar current measuring instrument

Variable resistor

PAT1 or PAT2

*COMPUTER GENERATED DOCUMENT - NO MANUAL CHANGES PERMISSIBLE*

Issue	Date	CN .No.	Compiled By : M.GREEN	Changes to be Notified To :	
3	2.12.92	13029	Date Compiled : 2.12.92		