

DATE 27/10/59
SH. 1 OF 6

TMC SPECIFICATION NO. S - 10028

COMPILED BY
C.L.B.

TITLE: PRODUCTION TESTING OF MODEL S.C.U.

JOB

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[Signature]

INSTRUCTIONS FOR THE
PRODUCTION TESTING
OF THE
MODEL S.C.U.

DATE 27/10/59

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1. TEST EQUIPMENT REQUIRED

1. Teletype Test Set.
2. Teleprinter.
3. Avometer Model 8 or equivalent.
4. Power Supply Model PSP-1.

2. TEST INSTRUCTIONS

Proceed in accordance with procedures detailed in paragraph (4).

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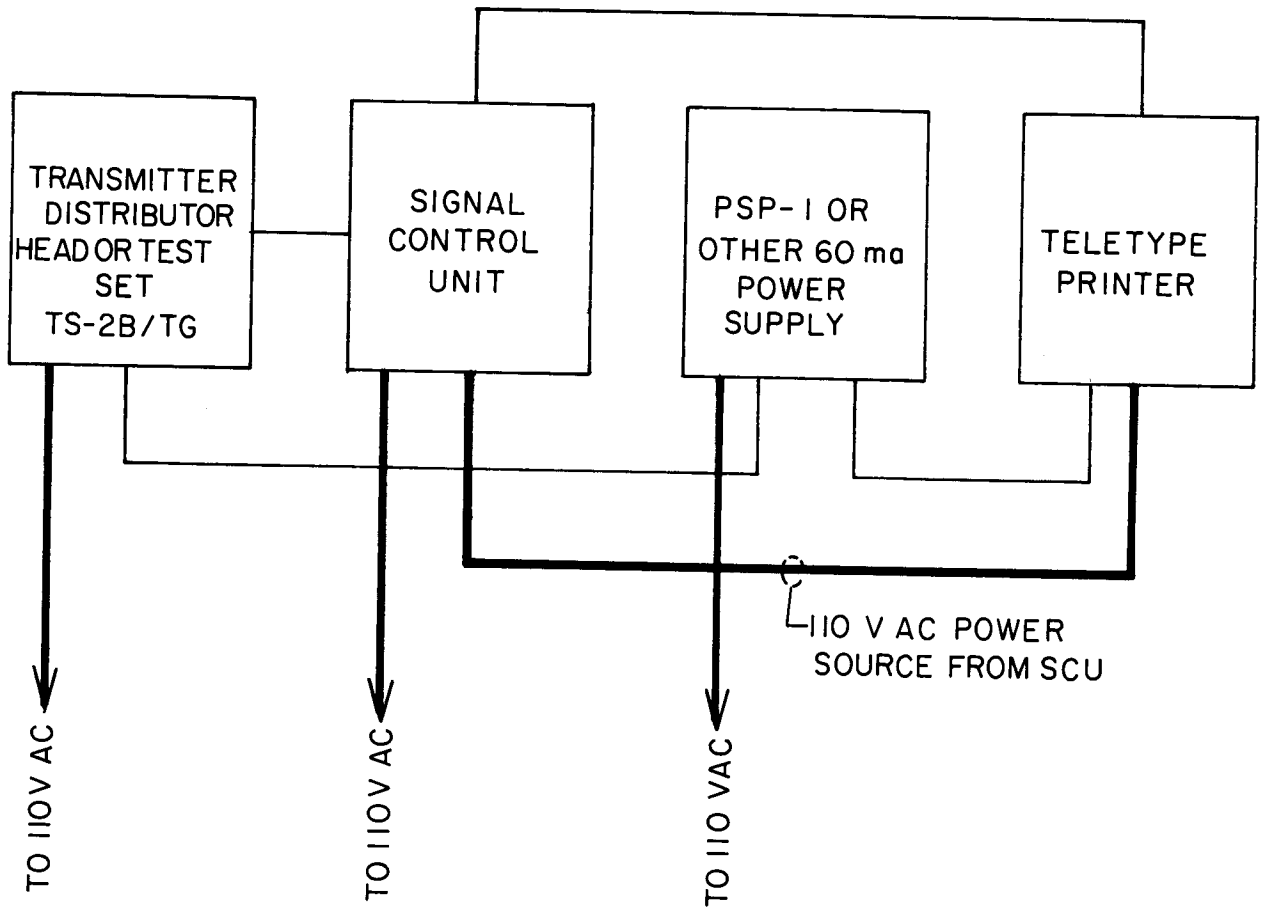
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3. INSTRUMENT LAYOUT

TEST SCHEMATIC FOR SCU



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4. TEST SEQUENCE AND PROCEDURE

1. Inspect for obvious mechanical and electrical faults.
2. Check security of all screws, nuts, etc.
3. Check polarity of diode CR101.
4. Install fuses.
5. Install relays RY101, RY102, having checked these for residual and sensitivity adjustments.
6. Connect unit to 110V a.c. supply and switch "on". Check all heaters are lighted and that voltage regulator tube V102 is ionized.
7. With unit "hot" switch off a.c. and after 5 seconds switch on again. Fuses should NOT fail. Connect equipment as shown in section 3 and proceed as follows.
8. With steady mark current adjusted to 60 M/a. and delay potentiometer R104, set to minimum delay, the Signal Control Unit should interrupt power to teleprinter in 10 seconds. Record this figure.
9. With R104 set to maximum delay break line current momentarily and time the interval until teleprinter power is again interrupted this should be a minimum of 3.0 minutes. Record this figure.
10. Set Teletype Test Set to transmit standard message. Check that RY102 armature does NOT chatter, adjust if necessary.
11. With steady "space" condition ie. zero line current, apply short between pin 1 C102 and ground. F102 should fail, starting teleprinter motor after 7-10 seconds. Record this figure.

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12. Reduce line current until RY102 de-energises and starts teleprinter. Record this figure. Limits 60 M/a - 10%.
13. Increase line current until RY102 has appreciable chatter. Record this figure. Limits 60 M/a + 10%.
14. Check that removal of tubes individually causes fail safe.
15. Check that removal of fuses causes fail safe.
16. Introduction of the Signal Control Unit into the teleprinter circuit must NOT reduce range of printer by more than five points.