

DATE 1/10/61
SH. 1 OF 4
COMPILED BY
C. M. Groven

TMC SPECIFICATION NO. S-544

TITLE: CPP-4 Patch Panel Test Procedure

JOB

APPROVED F. OS

I. Theory of Operation.

1-1 TMC Model CPP-4, Audio and DC patch panel, provides flexible interconnection of equipments in a communication station or system. Input and output connections of the unit are made on none (9) terminal boards on the rear of the unit. The CPP-4 is designed to operate on a normal through basis thus allowing the most used circuits to be completed without patch cords. A special feature of the CPP-4 is the inclusion of the monitor jacks, so that any circuit may be monitored without interruption of normal operation.

II. Test Equipment Required.

1. Ohmmeter such as Simpson Model 260.
2. Transformer (115/6.3V TMC TF-111) with alligator clips.
3. Lamp (#47) with alligator clips.

III. Test Procedure.

3-1 Mechanical

3-1.1 Check the unit for mechanical defects. Remove the cover and examine the jacks for poor solder joints and for obvious mechanical defects such as bent jacks that might be shorted and loose or missing screws. Insert a plug, TMC

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part number PJ-068 in each front panel jack;
the plug should go in fully and smoothly.

3-2 Electrical.

3-2.1 Set the ohmmeter to its lowest
resistance range and connect one lead to the
CPP-4 chassis. Touch the other lead to the
outer ring of every jack on the front panel.
The resistance should be zero ohms.

3-2.2 Connect one lead of the ohmmeter
set to its highest resistance range, to the
CPP-4 chassis. Touch every terminal on the
rear panel. The resistance should be infinite.

3-2.3 Touch terminals 1 and 2 of fanning
strip E109 with the alligator clips from the
transformer. Simultaneously, touch terminals
3 and 4 of fanning strip E109 with the alli-
gator clips from the lamp. The lamp should
light, thus indicating continuity. Check
terminals 5 and 6 with 7 and 8 in a similar
manner. Continue the test for each successive
pair of contacts.

NOTE terminals 9,10,11 and 12 on E101 are not used.

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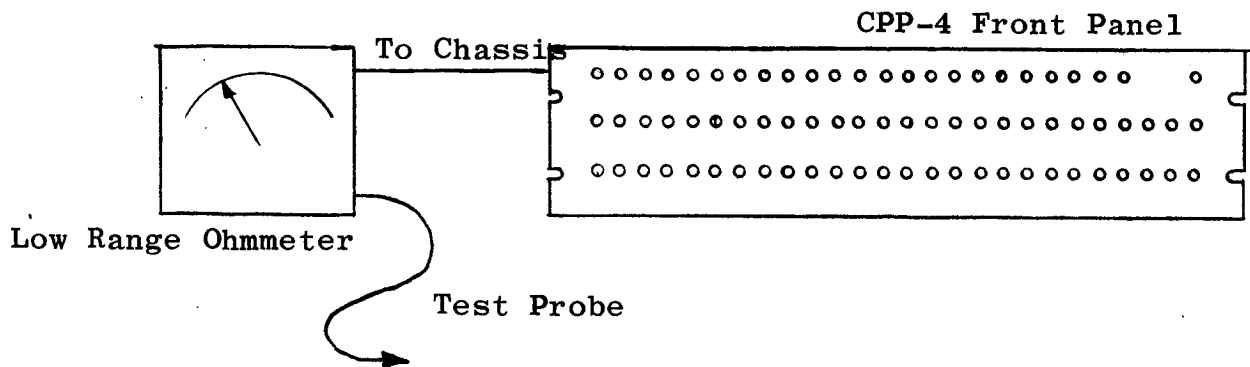
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TMC SPECIFICATION NO. SY-1024 SYSTEMS ENGINEERING

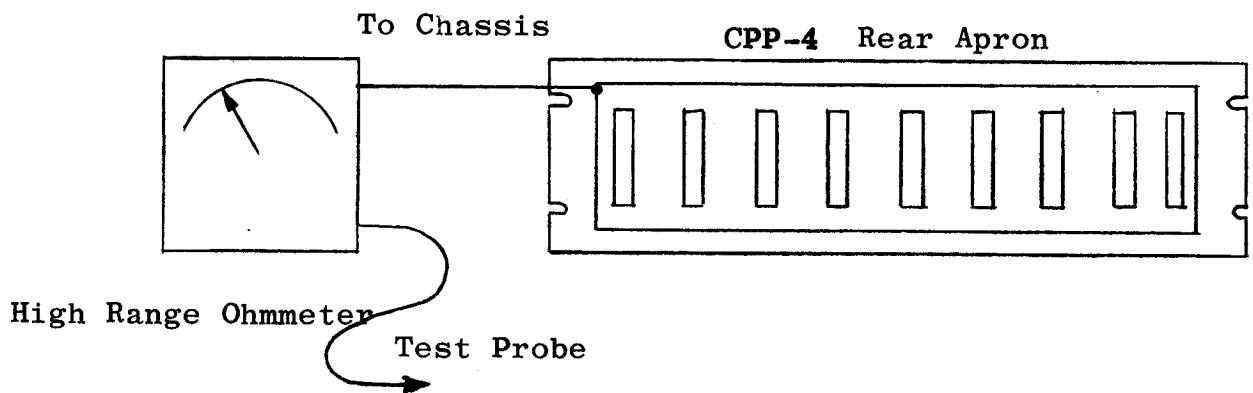
TITLE CPP-4 Patch Panel Test Procedure

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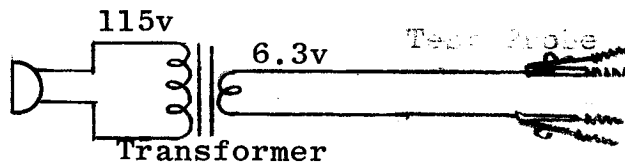
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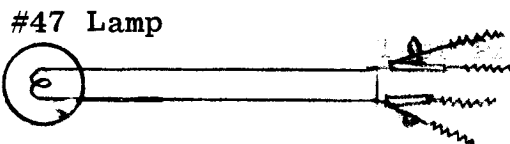
NOTE: Connect test probe to each jack frame. Zero ohms required.



NOTE: Connect test probe to each terminal. Infinite ohms required.



NOTE: Connect as described in test procedure. Lamp must light.



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SYSTEMS ENGINEERING

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3. TEST DATA

3-1 MECHANICAL

_____ (OK or Reject)

3-2 ELECTRICAL

3-2.1 Jack Grounds
(Par. 2-2.1)

_____ (OK or Reject)

3-2.2 Terminals Above Ground
(Par. 2-2.2)

_____ (OK Or Reject)

3-2.3 Through Connections
(Par. 2-2.3

_____ (OK Or Reject)

TMC Model CPP-4

Serial Number _____

(Number)

Tested By _____

(Tester)