

DATE 5/31/60  
SH. 3 OF 3

TMC SPECIFICATION NO. S-490

A

COMPILED BY  
T. G.

TITLE: Production Test Procedure of CSS-1

JOB

APPROVED 

REPORT SHEET

Paragraph	Readings
C-1 -----	_____
C-2 -----	_____
C-3 -----	_____
C-10 -----	_____
1 Megacycle Standard	_____

DATE \_\_\_\_\_  
TESTER \_\_\_\_\_  
SUPERVISOR \_\_\_\_\_

SERIAL # \_\_\_\_\_

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SH. 1 OF 3  
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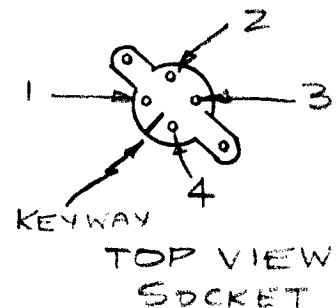
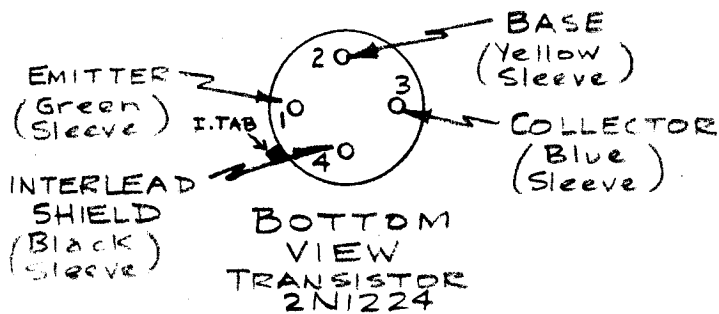
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TEST EQUIPMENT REQUIRED

- A
- 1. Counter - IMC
- 2. AC VTVM (Heath)
- 3. 70 ohm non inductive resistance

PRELIMINARY

- B
- 1. Inspect unit for mechanical imperfection.
- 2. Inspect for obvious wiring errors.
- 3. Check for B+ shorts with ohm meter.
- 4. Check for proper orientation of transistors. Correct wiring (very important). The index tab on the transistor should match the keyway on the socket.



- 5. Connect 70 ohm load to J602.
- 6. Make sure that the terminal board is screwed down, otherwise unit will not function.
- 7. Plug unit into AC and check operation of pilot lights I601 and I602 are functioning when S601 is in the respective position

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## TESTING OF CSS-1

- C.
1. See that there is a minimum of 25 volts dc at the junction of R618, CR601 and R619.
  2. Turn R617 "Output Adjust" to maximum output.
  3. Place probe of VTVM at Pin 6 of Z602, the voltage at this point should be 2.3 VAC at least.
  4. Measure the output of T604 (blue terminal) with the VTVM and tune the slug for a peak reading on the meter .8V Min.
  5. At points B<sub>1</sub> Q601 and B<sub>2</sub> Q602, E<sub>1</sub> Q601 and E<sub>2</sub> Q602. These voltages should be the same within .1 volt B<sub>1</sub> & B<sub>2</sub>, E<sub>1</sub> & E<sub>2</sub>.  
  
If trouble is encountered then the transistor should be checked. The method of checking should be done by substitution. The transistor should not be discarded. If the symptoms still exist after replacement, then the components in the amplifier circuit have to be checked.
  6. Place probe of VTVM on the output jack (J602). Tune T603 for maximum indication on meter.
  7. Z601  
Place probe on one of the yellow terminals of Z601. Peak Z601.
  8. With R616 in maximum sensitivity position proceed to balance out Z601 using R614 bring the meter (M601) to center scale reading when this has been accomplished the modulators are balanced.
  9. M601  
If step 8 is correctly performed then with R616 @ minimum sens: The meter will read 0 (center scale).
  10. The output for the CSS-1 should be 1.7 VAC. (Min)

