

AMPLIFIER SPECIFICATIONS

MODEL NO. TLE-1 PROJECT NO. 526-207-700709 DATE 11/22/63

- Notes: 1) These are minimum acceptable specifications for production. An Engineering Change Order is necessary when units fail to meet these requirements.
 2) Insert "N.A." to mean Not Applicable.
 3) Specifications superscripted "3" may be checked on a sample basis unless otherwise indicated.

Band Width 20 to 216 mcs, 54 mc to 216 mc Operational

Min. Full Gain 20 db at 216 mc

Flatness Within 1-1/2 db thru 20 db of Cable at 216 mc

Skirt Sharpness NA

Gain Control; Type & Performance Locking Pot in First Interstage

Gain Reduction is 5 db

Insertion Loss NA

Tilted Thru Cable 20 db at 216 MC/s; ~~XXXXXXXXXX~~ Variable Tilt Control to 30 db Cable at 216 mc

Minimum Full Gain Output³ 30 dbj per Channel - 9 Channels

for 0.14 % (-57 db) Cross Mod.

Maximum Full Gain Noise Figure³ 15 db at 216 mc

Ripple - (P to P Volts)³ 100 mv max.

Impedance At Terminal	Ohms	Bandwidth	Max. VSWR	Min. Ret. Loss, dB
INPUT	75	54 to 216 mc min.	1.5:1	14
OUTPUT	75	54 to 216 mc min.	1.7:1	12

Set up the equipment for matching with the bridge on the input connector of the power supply. Terminate the amplifier output. Adjust C4 for best match at 216 megacycles. Return loss should be 14db minimum between 54 and 216 megacycles.

Transfer the bridge to the output of the amplifier. Terminate the input of the power supply. Adjust L11 for best output match. L8 may need a slight adjustment for best match at 216 mc. Do not adjust L8 if the output match makes 12 db.

Return to the set-up of figure 1 and check for the response as in figure 2. Check the action of the gain and tilt controls. Gain reduction should be approximately 5 db. The response curve should be flat within 1½ db, with a slight adjustment of the tilt control, at minimum gain. Minimum gain with gain control clockwise should be 20db or unity gain with the test cable on the input. The tilt control should slope the 54 megacycle point a minimum of 5 db with no more than 1 db difference at 216 megacycles. This completes the alignment of the amplifier. Remove the unit from the housing and change the alignment cover for the final cover.

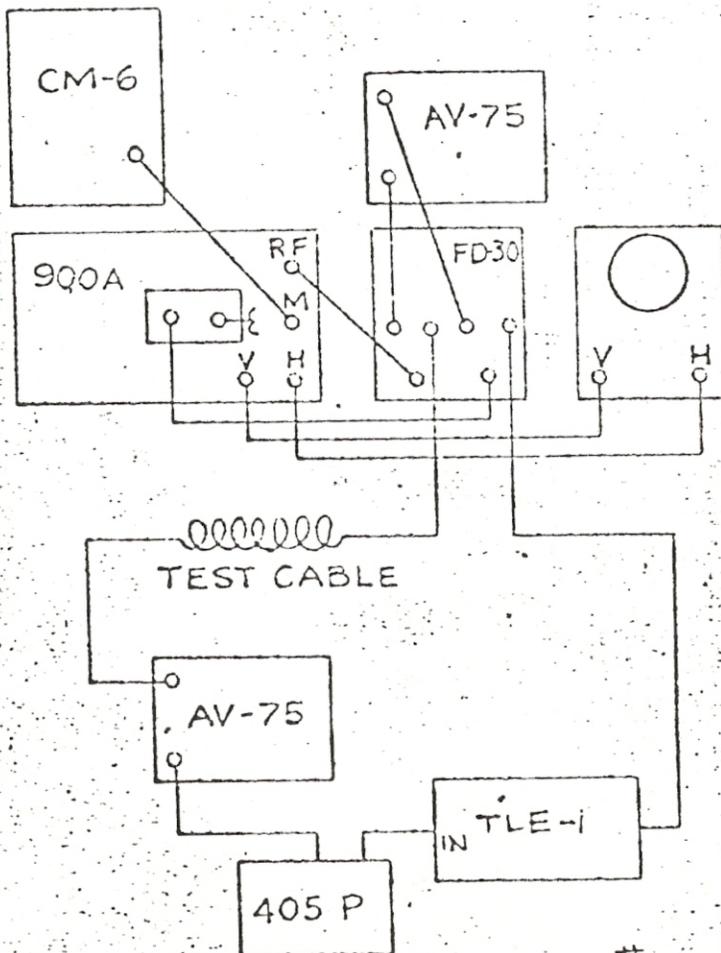


FIGURE #1

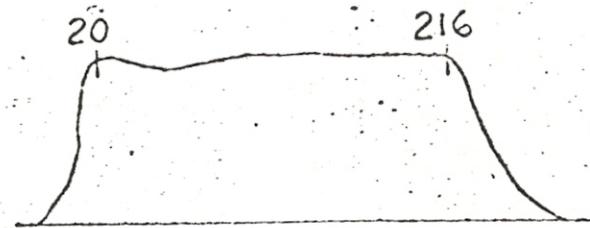


FIGURE #2