DATE 11-37-61 SHEET 1 OF 6		TMC SPECIFICATION NO. S 619	А
O.P.	CHECKED	TITLE: TESTING OF THE LFA-2	
ANTR	OVED		

COMPLETE TEST INSTRUCTIONS

FOR THE

TECHNICAL MATERIEL CORPORATION

MODEL LFA-2

DATE 11-27	_61 or6	TMC SPECIFICATION NO. S 619	Α
O.P.	CHECKED	TITLE: TESTING OF THE LFA-2	
APPR	OVED		

TEST EQUIPMENT REQUIRED

- 1. Distortion analyzor Model LP-1A.
- 2. Hewlett Packard VTVM Model 410B.
- 3. Oscilloscope.
- 4. 50 ohm 20W load.
- 5. 2 each, signal generators.
- A. General Inspection
- 1. Inspect the unit for mechanical inperfections: knobs, switches, shafts etc.
- 2. Inspect the unit for electrical inperfections: Wiring, cables, tubes etc.
- 3. Check for proper placement of tubes.
- B. B+ Check
- 1. Connect power.
- 2. Turn on power and B+ switch.
- 3. Observe if all tubes are lit and measure B+ voltage at pin 3 and pin 7 of V3006 and at pin 3 and pin 7 of V3005.
- C. Alignment of T-3004
- 1. Connect signal generator set to 1.7V at 1 MCS to J3001.
- 2. Connect RF VTVM to pin 1 of V3002.
- 3. Tune both slugs of T3004 for maximum output.
- 4. Connect RF VTVM to pin 5 of V3002.
- 5. Reture both slugs of T3004 for maximum output and lock the slugs.
- 6. The voltage of pin 5 of V3002 must be approximately .6V, record the voltage on the report sheet.

- D. Overall Gain Measurement
- 1. Connect load to J3003.
- 2. Connect second signal generator to J3002 set at 2V and 2.5MCS.
- 3. Turn the output control fully clockwise.
- 4. Observe the output meter, it should read approximately 6.5 divisions. Enter the number on the report sheet.
- 5. Connect VTVM to the load. The voltage must be approximately 16V. Enter the voltage into the report sheet.
- 6. If difficulties are encountered, make gain measurements of individual stages using Charts 1 and 2.
- 7. Connect oscilloscope to J3004. The scope must show no visible harmonic distortion or clipping of the sinewave.

NOTE: This unit is not ready for shipment. See S-620

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DATE <u>ll/27/61</u> Sheet <u>4</u>	OF6	T	MC	SPE	CIFI	CATI	ON	NO.	S -6	19	A
O.P. COMPILED	CHECKED	TITLE:	TEST	ING OF	THE L	FA-2					
APPR	OVED										
	V 200 /	V3006	V3005	V3004	V3003	V3002	V3001	SYMBOL	•	FREQ. INPUT OUTPUT TERMINATION	
	SK4GI D	6GK6	6GK6	12AT7	604	6B E 6	6AB4	TUBE	•	ATTON H	
	AC	AC DC	AC DC	AC DC	AC DC	AC DC	AC DC	VOLTAGE	•	500KC 1 tone 2V 5 watts (16 v 50 ohms	
		13.0	13.0	3.6 200.0	0.35 175.0	2,85	2.45 83.0	1	•	(16 volts)	
	170.0	4.8	4.6	0.23		0.6 0.78		N			VOLTAGE CHART
				1,5				ы			HART 1
	440.0	6, 4	6.3	6.3	6.3	6.3	6.3	4			·
				6.3		6.0 220.0		ن.			
	2.0			3.0 220.0	0,1	92.0	1.65 -1.9	O)			
	170.0	82.0 305.0	82. 0 305.0	0.22 1.5	2,5	0.4	ı.	7		1 MC	
	0.00	305.0	305.0					œ		C INPUT1.7V	
		13.0	13.0					9		1.7V	

TMC SPECIFICATION NO. S-619

O.P. COMPILED CHECKED TITLE: TESTING OF THE LFA-2

APPROVED

3 20.0 170.0		-2.0 440.0		-2.0 440.0		320.0 170.0		DC AC	5R4GYB	V3007
	305.0			6.3			13.0	DC AC	6GK6	V3006
305.0	305.0			6.3			13.0	DC AC	6GK6	V3005
		205.0	6.3	6.3	1.5		208,0	DC AC	12АТ7	V3004
	2,8			6.3			180.0	DC AC	6C4	V3003
		72.0	220.0	, 6 , 3		0.9		DC AC	6B B6	V3002
		24		6.3			58.0	DC AC	6AB4	ν3001
	7	0,	٥٦	4	М	· N	Ľ	VOLTAGE	TUBE	SYMBOL
								181 181	INPUT = No Signal OUTPUT= No Signal	INPUT :
					N.	VOLTAGE CHART 2	VITOV			

TE 14	0F 6	TMC SPECIF	ICATION NO. S 6	19
O.	P. CHĘCKED	TITLE:	THE LFA-2	
A	PPROVED			
		TEST REPORT SHE	ET	
Α.	. General ins	enaction	ACCEPT	
	. General ins	spection		
	. A) Alighman	k of T-3004		
	,	of pin 5 of V-3002		v
	. Overall gai	·		
		neter reading		
	5. Output	oltage reading		v
	7. Harmonic	distortion		
•			Garata I. Wa	
			Serial No	
	•		Date	
			Tested by	
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	production of the second			
	July 1997			

OGILVIE PR

TMC FORM 184-A - OGILVIE PRESS, INC. NO 439M TYPEMASTER

THE TECHNICAL MATERIEL CORP. MAMARONECK

REVISION SHEET S-619 NEW YORK MODEL _LFA-2 PROJECT NO. _____ REV. PAGE EMN# DATE DESCRIPTION CHK. APP. 12/26/6L A 6121 2 Chg. No. 4 from 73 ohms to 50 ohms. 3 Chg. No. 5 from 19V to 16V. Chg. termination from 70 ohms to 50 ohms. Chg. output from 19V to 16V. Chg. No. 1 from 12.0 to 13.0. on V3005, V3006. Chg. No. 7 from 110.0 to 82.0 on V3005, V3006. Chg. No. 9 from 12.0 to 13.0 on V3005, V3006. Chg. No. 1,9 from 12.0 to 13.0 on V3005, V3006.