

EQUIPMENT USED
AVO METER MODEL 7

CONDITIONS (UNLESS OTHERWISE STATED.)

1. TRANSMITTER SET UP ON DUMMY LOAD AT MID POINT OF BAND 1.
2. READINGS ARE FOR DRIVEN & UNDRIVEN CONDITIONS. THE FORMER IS THAT OF NORMAL WORKING. UNDRIVEN MEASUREMENTS ARE OBTAINED WHEN THE PREVIOUS STAGE IS NOT PRODUCING ANY DRIVE. I.E. ON R.F STAGES ASSUMPTION IS MADE THAT M.O. IS FAULTY IN UNDRIVEN CONDITION. ON A.F STAGES DRIVEN CONDITION IS WITH SW.E. IN M.C.W. POSITION AND UNDRIVEN CONDITION IS WITH SW.E. IN C.W. POSITION.
3. READINGS UNDER KEY UP ARE WITH SW.E. IN C.W. POSITION.

CIRCUIT POINT No.	KEY UP	KEY DOWN.		METER RANGE VOLTS.	REMARKS.
		DRIVEN.	UNDRIVEN.		
1	260	235	265	400	UNDRIVEN CON. WITH SW.A.
2	132	119	110	400	TO CRYSTAL WITH
3	0	0	0	—	NO CRYSTAL INSERTED.
	0	4.4	5.0	10	SW.A. TO CRYSTAL AT 3 M C/s
4	303	303	298	400	SW.B. TO BAND 1.
	306	295	297	400	SW.B. TO BAND 2.
	305	299	296	400	SW.B. TO BAND 3.
5	138	122	136	400	SW.B. TO BAND 1.
	248	214	237	400	SW.B. TO BAND 2.
	254	220	244	400	SW.B. TO BAND 3.
6	0	2.6	0.95	10	SW.B. TO BAND 1.
	0	5.5	3.9	10	SW.B. TO BAND 2.
	0	6.9	4.1	10	SW.B. TO BAND 3.
7	420	410	420	1000	
8	410	168	410	1000	
9	155	151	151	400	GRID SHORT CIRCUITED
10	151	149	153	400	TO CHASSIS IN UN-
11	2.9	2.8	2.7	10	DRIVEN CONDITION.
12	162	154	160	400	
13	2.9	2.9	2.8	10	
14	172	224	178	400	
15	100	130	100	400	
16	2.3	0.95	2.3	10	
17	185	188	184	400	
18	121	119	120	400	
19	4.5	4.0	4.15	10	
20	426	420	410	1000	
21	330	300	325	400	
22	288	283	283	400	
23	19	19	19	100	
24	421	414	421	1000	
25	308	303	308	400	
26	308	304	304	400	

AUDIO RESPONSE FIGURES FOR MODULATOR.

EQUIPMENT USED

A.F. VALVE VOLTMETER.
AUDIO OSCILLATOR.

CONDITIONS

TRANSMITTER SET UP FOR 80% MOD.
AT 1000 C.P.S. WITH VOGAD OPERATING.

CIRCUIT POINT No.	A. F. VOLTAGE READINGS.					REMARKS.
	250 C/s	1000 C/s	2500 C/s	3500 C/s	5000 C/s	
27	7.0	4.7	4.8	4.75	4.55	
14	6.5	6.0	4.05	4.1	3.95	
28	1.5	1.9	1.6	1.6	1.55	
17	13.0	16.0	12.75	13.0	12.5	
29	12.5	16.0	12.0	13.0	12.5	
22	100	75	100	125	97	
30	85	148	100	7.6	0.55	
3	20	2.9	2.2.5	1.85	< 0.5	
32	107	107	197	20	< 0.5	THRO' 0.25 μF CAPACITOR

AERIAL CURRENT READINGS ON DUMMY LOAD.

FREQ. BAND	FREQ.	METER RANGE	READING (mA)
1.5 - 3.5 M C/s	1.5 M C/s	4	0.22
3.5 - 8.0 M C/s	6.0 M C/s	2	0.44
8.0 - 16.0 M C/s	12.0 M C/s	1	0.47

DRIVE VOLTS ACROSS R84, 2.2K.
AVO METER MODEL 7. 400V RANGE.

FREQ. BAND	FREQ.	READING.
1.5 - 3.5 M C/s	1.5 M C/s	30
3.5 - 8.0 M C/s	6.0 M C/s	28
8.0 - 16.0 M C/s	12.0 M C/s	26

AP 100333 TRANSMITTER H.F.

CIRCUIT DIAGRAM. (SHEET 3.)

TYPICAL VOLTAGE, AUDIO RESPONSE & CURRENT READINGS.