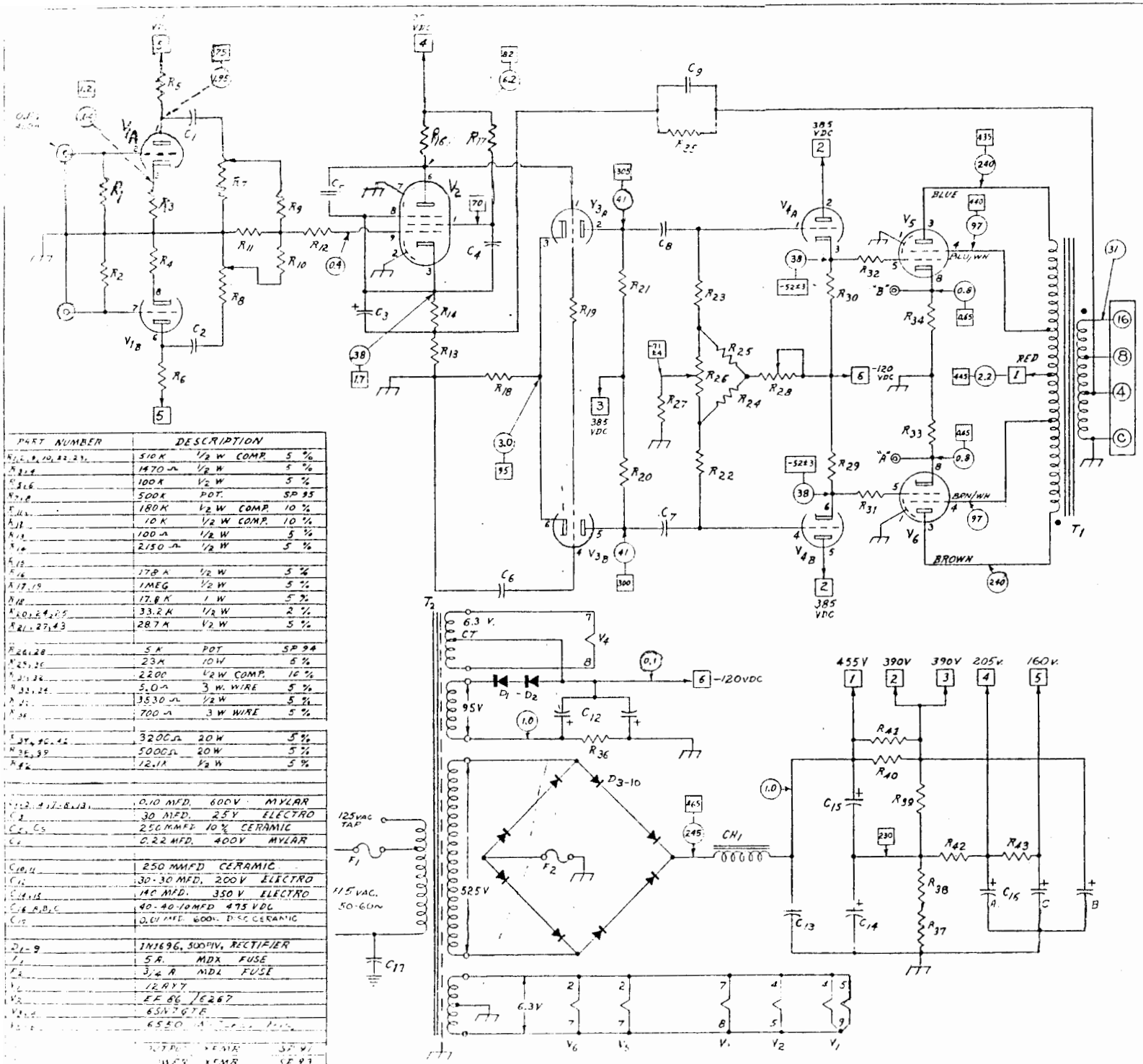
F 081-0247

LET	CHANGE	DATE	BY
A	SEE E.C.O. G-1325	7-20-60	[illegible]
B	SEE E.C.O. H-1335	8-30-60	[illegible]
C	SEE E.C.O. L-1358	11-1-60	[illegible]
D	SEE E.C.O. A-1378, A-1379	1-30-61	[illegible]
E	ADDED DIODE TO BIAS	10-17-61	[illegible]
F	DRAWING No. NAS EC247	12/2/63	RKB



PART NUMBER	DESCRIPTION		
R1,2,9,10,22,23	510 K	1/2 W COMP.	5 %
R3,4	1470 Ω	1/2 W	5 %
R5,6	100 K	1/2 W	5 %
R7,8	500 K	POT.	SP 95
R11	180 K	1/2 W COMP.	10 %
R12	10 K	1/2 W COMP.	10 %
R13	100 Ω	1/2 W	5 %
R14	2150 Ω	1/2 W	5 %
R15			
R16	178 K	1/2 W	5 %
R17,19	1 MEG	1/2 W	5 %
R18	17.8 K	1 W	5 %
R20,24,25	33.2 K	1/2 W	2 %
R21,27,43	28.7 K	1/2 W	5 %
R26,28	5 K	POT	SP 94
R29,30	23 K	10 W	5 %
R31,32	2200	1/2 W COMP.	10 %
R33,34	5.0 Ω	3 W. WIRE	5 %
R35	3530 Ω	1/2 W	5 %
R36	700 Ω	3 W WIRE	5 %
R37,40,42	3200 Ω	20 W	5 %
R38,39	5000 Ω	20 W	5 %
R42	12.1 K	1/2 W	5 %
C1,2,4,7,8,13	0.10 MFD.	600V	MYLAR
C3	30 MFD.	25V	ELECTRO
C5, C6	250 MMFD	10%	CERAMIC
C9	0.22 MFD.	400V	MYLAR
C10,11	250 MMFD	CERAMIC	
C12	30-30 MFD.	200V	ELECTRO
C14,15	140 MFD.	350 V	ELECTRO
C16 A,B,C	40-40-10 MFD	475 VDC	
C17	0.01 MFD.	600V	DISC CERAMIC
D1-9	1N1696, 500 PIV, RECTIFIER		
F1	5 A.	MDX	FUSE
F2	3/4 A	MDL	FUSE
V1	12AY7		
V2	EF 86 / 6267		
V3,4	6SN7GTB		
V5,6	6550 [illegible]		
[illegible]	OUTPUT XFMR		SP 91
[illegible]	[illegible]WER XFMR		SP 93
[illegible]	[illegible]NGING CHOKE		SP 92

6. OUTPUT TUBES ARE BALANCED WHEN "BAL POT" R_{26} IS ADJUSTED SO ZERO VOLTAGE IS MEASURED BETWEEN PIN JACKS "A" & "B" AT NO SIGNAL CONDITION.

5. BIAS POT, R_{28}, IS SET FOR A V_5 & V_6 CATHODE CURRENT OF 60 MA. WHEN APPROX. 0.30 VDC IS MEASURED TO GROUND FROM PIN JACK "A" & "B" AT NO SIGNAL CONDITION.

4. MAXIMUM AUDIO POWER OUTPUT AT A LINE VOLTAGE OF 115 VAC IS APPROX. 70 WATTS BEFORE CLIPPING OCCURS.

3. 115 VAC LINE POWER IS APPROX. 120 WATTS AT NO SIGNAL & 220 WATTS AT FULL SIGNAL.

2. DC VOLTAGES SHOWN AS 1.2 & AC VOLTAGES AS 0.4 BOTH MEASURED WITH RESPECT TO CHASSIS GROUND. DC VOLTAGES WERE MEASURED WITH A VOM HAVING A SENSITIVITY OF 20 KΩ/VOLT. AC VOLTAGES WERE MEASURED WITH AN AC VTVM HAVING AN INPUT IMPEDANCE OF 2 MEG OHMS.

1. ALL POWER SUPPLY VOLTAGES ARE MEASURED AT NO-SIGNAL CONDITION. ALL AMPLIFIER VOLTAGES, V_1 THRU V_6, ARE MEASURED DURING A LOAD CONDITION OF 31 VOLTS ACROSS A 16 Ω RESISTIVE LOAD CONNECTED TO THE 16 Ω OUTPUT TAP.

NOTES:

ALLEN ORGAN CO., INC.
MACUNGIE, PENNA.

SCHEMATIC - AMPLIFIER
MODEL 75

081-0247