

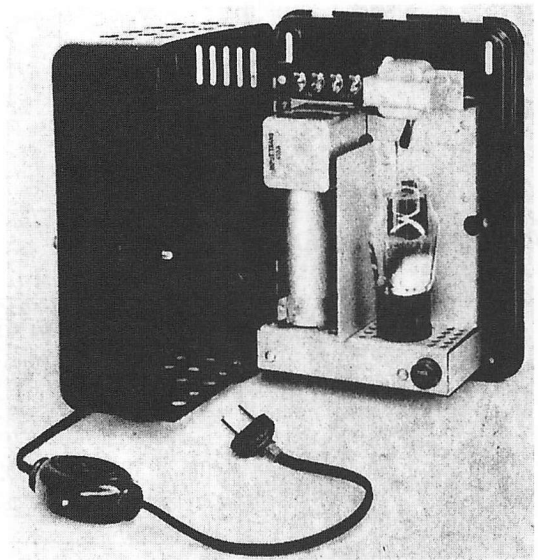
NO	I-24
AMPLIFIER	
112A	
4-10-39	

GENERAL

THIS IS A SINGLE-STAGE AMPLIFIER USED IN CONNECTION WITH A 321A, A 321B OR A 321C TELEPHONE SET IN THE NO. 2A KEY TELEPHONE SYSTEM PER DRAWINGS SD-69103-011 AND SD-69103-012. THE APPARATUS IS MOUNTED IN A MODIFIED SUBSCRIBER SET HOUSING. A CORD, EQUIPPED WITH A PLUG AND A SWITCH, IS PROVIDED FOR MAKING CONNECTION TO THE SOURCE OF SUPPLY. INPUT AND OUTPUT TERMINAL CONNECTIONS ARE ALSO PROVIDED.

ELECTRICAL CHARACTERISTICS

GAIN..... 30 DB
 OPERATES FROM..... 350 OHMS
 INTERNAL INPUT IMPEDANCE... OPEN CIRCUIT
 OPERATES INTO..... 3 OHMS
 INTERNAL OUTPUT IMPEDANCE.. 33 OHMS
 OUTPUT POWER..... 0.5 WATT, 5% HARMONICS
 OUTPUT NOISE..... -25 DB UNWEIGHTED
 POWER SUPPLY..... 105-125 V. DC. OR 25-65 CYCLES AC. MAX. 20 WATTS.
 FUSE - (FURNISHED)..... LITTELFUSE TYPE 3AG, 0.5 AMP. 500 V.
 GAIN CONTROL..... NONE.



EQUIPMENT CHARACTERISTICS

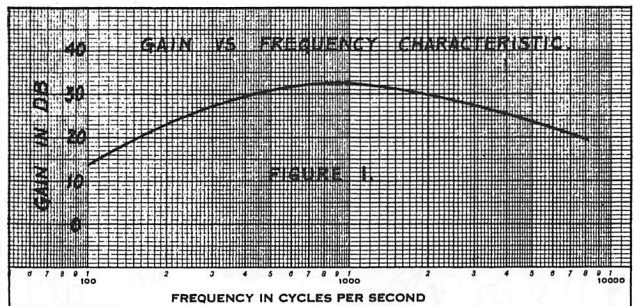
WEIGHT..... 6-1/2 LBS.
 SIZE..... 9-1/4" HIGH X 6-3/4" WIDE X 3-3/4" DEEP
 FINISH..... BLACK PERSPIRATION RESISTANT LACQUER. (CHASSIS - BRIGHT ALUMINUM LACQUER)
 MOUNTING..... ARRANGED FOR WALL MOUNTING. MUST BE MOUNTED UPRIGHT FOR PROPER HEAT DISSIPATION.

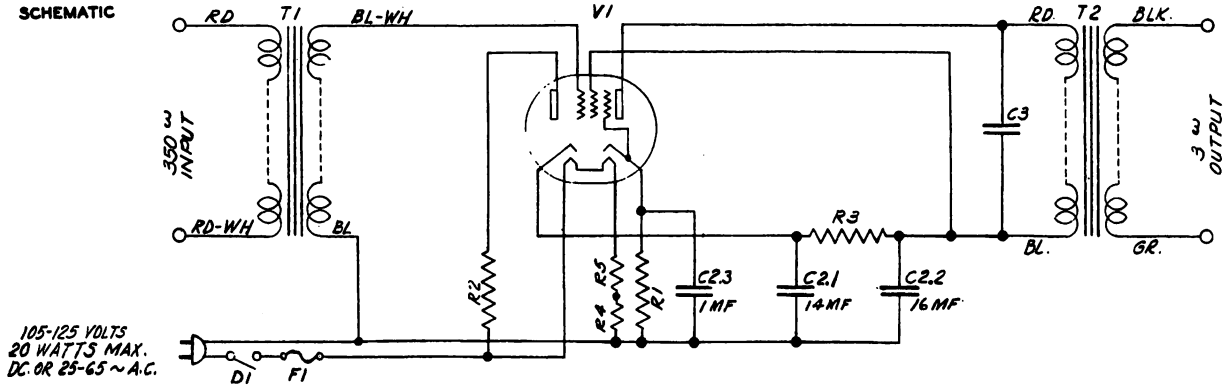
VACUUM TUBES (FURNISHED)

1 - RAYTHEON CK-113

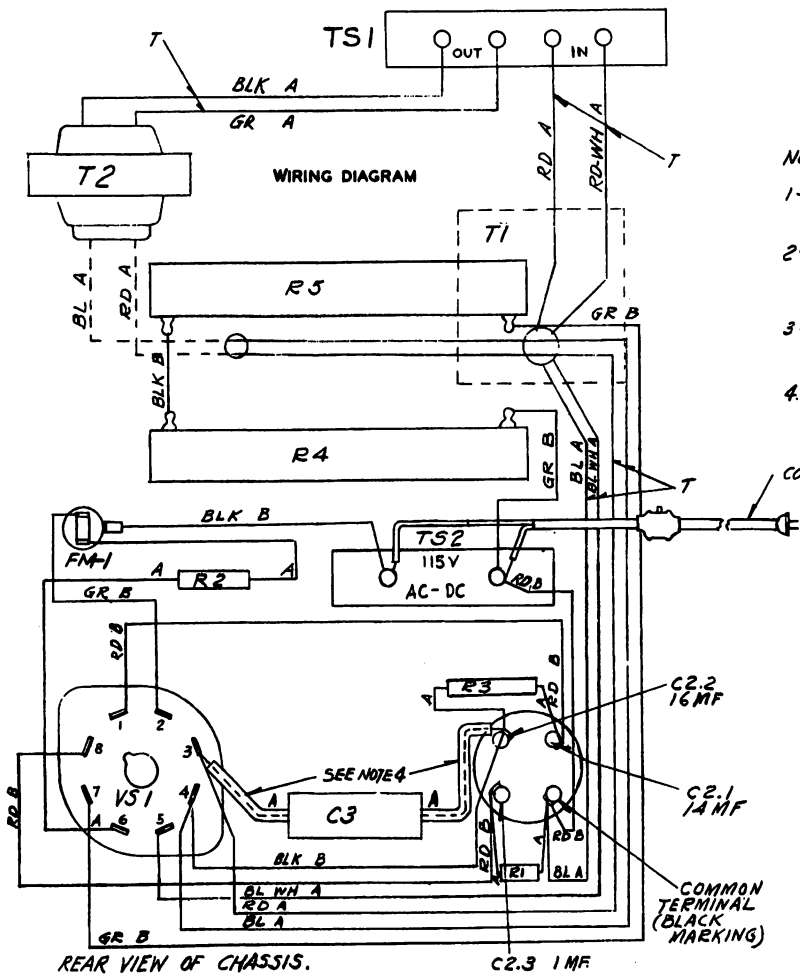
REFERENCES

ESO-612799..... ASSEMBLY
 ESL-612800..... WIRING DIAGRAM
 ESL-612801..... SCHEMATIC
 PHOTOGRAPH NO. 83618





F1	LITTLEFUZE TYPE 3AG FUSE 0.5AMP.-500V.
V1	Raytheon Type CK-113
T2	Jensen Z-2130 Output Trans. 4500Ω:3Ω
T1	#610A Input trans. 350Ω:83000Ω
R4, R5	I.R.C. Type MW4 200Ω
R5	I.R.C. Type BF1 600Ω
R2	I.R.C. Type BW1 100Ω
R1	I.R.C. Type BF1/2 600Ω
D1	H.&H. #530 Feed through switch
C2	AEROVOX #4E, 50 V. 1/2 MF ± 5% ELECTROLYTIC COND. THE CAP. TOLERANCE OF 1/2 SECTION MUST BE MIN. 3MF, MAX. 1 1/4 MF.
C3	Aerovox Cond. TYPE 289 - .02 MF. 400V. WITH CARDBOARD COVER
DESIG.	APPARATUS



- NOTES
- 1- WIRES MARKED 'A' ARE FURNISHED WITH APPARATUS.
 - 2- WIRES MARKED 'B' ARE #22 A.W.G.A. SOLID, COTTON BRAIDED, IMPREGNATED WIRE PER KS-7612
 - 3- WIRES MARKED 'T' ARE TWISTED PAIR.
 - 4- KS 7651 BLACK VARNISHED IMPREGNATED SLEEVING. SIZE TO SUIT LEADS OF C3.