NO 1-33 AMPLIFIER D-151195

4-24-41

#### GENERAL

This is a high gain low power amplifier for sound system and audiphone use. It is designed to operate from either of two crystal pickups such as microphones, and into a low impedance loud speaker, audiphone head sets or both. Mounting holes are provided for the addition of a 618 Type input transformer for applications of low source impedance, and for mounting a 221G retard coil to replace the main filter resistance, R17, when improved filtering is required.

#### ELECTRICAL CHARACTERISTICS

See Curves (115 db if equipped with 618A input transformer) Gain

40 db continuously variable, with "off" position. Paralleled remote control may be used if desired Gain Control

Crystal pickup or up to 5 megohms resistance Source Impedance

Internal Input Impedance 5 Megonms

Nominally 4.8 or 0.8 ohms. Designed to operate into simultaneous loads of 8 ohms and from 1 to 130 head sets. Load Impedance

35 ohms for 4.8 ohm terminals Internal Output Impedance

5 watts with approximately 10% total harmonic Output Power

-20 db (1 mw basis) as shipped with low frequencies attenuated -15 db if modified for flet low fre-quency response Output Noise Unweighted

110 - 125 volts, 60 cycles, 0.6 amperes, 75 wetts maximum. Fused with .75A Slo Blo Littlefuse Power Supply

# EQUIPMENT CHARACTERISTICS

17" wide (housing), 19" over handles 7" deep (housing), 8" over controls 9" high Dimensions

Weight Approximately 20 lbs. Table type

Mounting 1 - 6L7, 1- 6J7G, 1-6L6G, 1-5Y3G

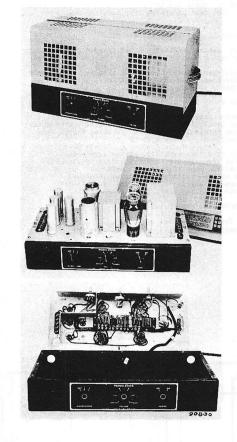
Vacuum Tubes

Finish Base - Black orinkle lacquer Cover - Blue-gray orinkle lacquer

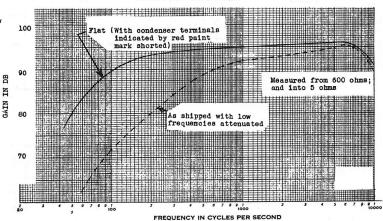
Input and Output connections to screw terminals under cover. 7/8" holes for conduit termination if desired Power - 8' power cord and plug Connections

# REFERENCES

Schematic ES0-746526 Data NB-15400 p. 98 - 101 Frequency Response ES-746534 Photographs - 90827, 90828, 90829, 90830



### FREQUENCY RESPONSE



#### PARTS LIST

- 3 Mallory FP Electrolytic Condensers 3 sections, 1" by 3" can with metal mounting plate - 50 mf at 25 volts, 30 mf at 450 volts, 5 mf at 450 volts - Manufacturer's name to be omitted
- Mallory Type FP Electrolytic Condenser 1 section, 1" by 3" can with metal mounting plate - 40 mf at 450 volts, Kanufacturer's name to be omitted
- Yarley Type 3123 Switch with 1/4" rolled bushing, 17/32" punched locating lug located vertically, 2 pole 3 positions; contacts 12, 1 and 2; 6, 7 and 8. Shaft 1-1/16" long with flat 5/8" by .216" located 240° clockwise from locating lug. P. R. Mallory Co.
- S-292-IL Kurz Kasch Knobs Black
- 1 G.E. Mazda 6 8 volt No. 47 frosted pilot lamp or Weston LD-21865 6 - 8 volt frosted pilot lamp
- Escutcheon Plate, Same as WE-128A Amplifier Plate except marked D-151195 Amplifier. Metal Etching Company, Brooklyn, New York
- 1 Par Metal DF-717-BT Box and Cover
- 1 Hert & Hegeman Rotopower Switch, single pole No. 1651. 1-1/16" shaft with flat 60° clockwise from terminals when in off position viewed from shaft end - Supply with two nuts
- 1 IRC Type C Curve A 5000 ohm Volume Control with open circuit in extreme counter clockwise position when viewed from sheft end. 0 resistance in extreme clockwise position. Standard 3/8" threaded bushing with nut and lock washers. Dimensions C = 5/8", A = 1-1/16"
- 4 Eby Sockets per KS-10067
- 1 5 Terminal Terminal Strip American Radio Hardware Company No. 1511

1 4 Terminal Terminal Strip American Radio Hardware Company No. 1509

## IRC BT 1/2 Resistances

1 - 5 Megohm	3 - 250,000 ohma
2 - 20,000 ohms	1 - 1/2 kegohm
1 - 500 "	1 - 2250 ohms
1 - 35,000 "	1 - 4000 "
2 - 150,000 *	1 - 25,000"

1 IRC BT 1 Resistance - 100,000

#### IRC BT 2 Resistances

- 1 10,000 2 - 40,000 1 - 200 1 - 350
- 1 IRC Type AB 8 ohms ± 10% 5 watt resistance
- 1 .005 mf Type 1 W Cornell Dublier Condenser
- 1 .00025 mf Type 5 W Cornell Dublier Condenser
- 1 .002 mf Type 4 Cornell Dublier Condenser 2500 volt test
- 1 .08 mf 600 volt condenser type TVC-4 Cornell Dublier
- 1 Kenyon Output Transformer No. 8-13008
- 1 Kenyon Power Transformer No. S-13007
- 8' Tyrex SJ Power Cord with soft rubber moulded unpolarized power plug G.E. Company
- 8 Aluminum Goods Manufacturing Company Tube shield No. 00234 - Base No. 0334
- 1 Little Fuse Extractor Fuse Post No. 1075
- 1 0.75 Ampere Slo Blo Littlefuse
- Panel Lamp Socket American Radio Hardware Co. No. 1723 with up clip on 7/8" bracket
- 2 Cable Clamps Zerick No. 78

Vacuum Tubes Shipped from Commercial Stock



