Western Electric Company

No. 103-A AMPLIFIER

COMMERCIAL PRODUCTS APPARATUS REFERENCE SHEET

NO 1-9 **AMPLIFIER** 103 A 4-28-37

ELECTRICAL CHARACTERISTICS

GAIN - - - - - - - - - - MAX. 58db OPERATES FROM - - - - - - 200 OHMS INTERNAL INPUT IMPEDANCE - - - 500 OHMS OPERATES INTO - - - - - - 8 OR 500 OHMS
INTERNAL OUTPUT IMPEDANCE - 1/2 OF LOAD IMPEDANCE

OUTPUT POWER - - - - - - 8 WATTS, 5% HARMONIC DISTOR-

TION

OUTPUT NOISE - - - - - - - - - 50db UNWEIGHTED

POWER SUPPLY - - - - - - 105-125 VOLTS, AC 45-65 CYCLES, 75 WATTS. SHOULD BE

FUSED FOR 1 AMPERE.

A D.C. VOLTAGE 14-60 VOLTS IS REQUIRED TO OPERATE THE RELAY IN THIS AMPLIFIER.

GAIN CONTROL - - - - - - - A 500 OHM POTENTIOMETER IS PROVIDED. 40db CONTINUOUS

VARIATION.

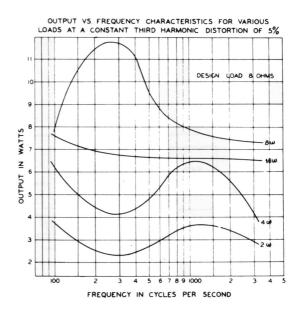
EQUIPMENT CHARACTERISTICS

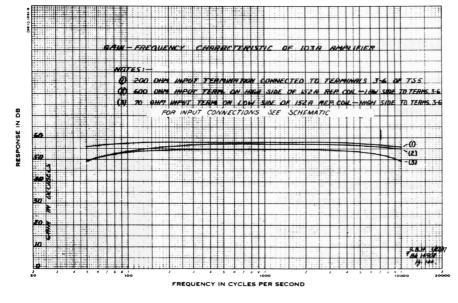
WEIGHT - - - - - - - - 40 LBS. SIZE - - - - - - - - - - 19-13/16" x 7-7/8" x 10-3/4" MOUNTING - - - - - - - - IT IS DESIGNED FOR DESK OR TABLE MOUNTING.

NOTES 1. THIS AMPLIFIER CONSISTS OF A 109A AMPLIFIED. MOUNTED IN A METAL CABINET AS ILLUSTRATED. ADDITIONAL INFORMATION ON THE 109A AMPLIFIER IS GIVEN ON SHEET NO. 1-10.

> 2. FACILITIES ARE PROVIDED IN THE 103A AMPLIFIER FOR MOUNTING A 152A REPEATING COIL, BUT THIS COIL MUST BE ORDERED SEPARATELY. WHEN THIS COIL IS USED THE AMPLIFIER OPERATES FROM A 600 OHM IMPEDANCE AND SUPERIMPOSED D.C. CUR-RENTS AS HIGH AS 100 MILLIAMPERES MAY BE APPLIED. (SEE ALSO NOTE 3 OF SCHEMATIC.)







REFERENCE

HARMONIC CONTENT

POWER CUTPUT

ES-732177 ES-732178

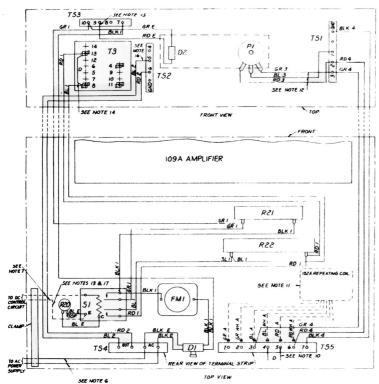
ES-732179

ES-732180

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No. 103-A AMPLIFIER

WIRING DIAGRAM



DE516	APPARATUS
DI	H&H #3594 -M DOOR SWITCH
50	H&H # 20992 TUMBLER SWITCH
FMI	BRYANT #62569 PLUGFUSE CUTOUT BASE
PI	I.R.C. 500 POTENTIOMETER TYPE C
	WITH CURVE C
RZO	TYPE AB-270" IRC. RESISTOR
RZI	MW5-130" IRC RESISTOR
RZZ	MW4-20 000 WIRC RESISTOR
51	W.L. K-40668 MIDGET RELAY
754	TERMINAL STRIP, ESO 622567-3
755	TERMINAL STRIP, ESO 622567-4
	109 A AMPLIFIER

