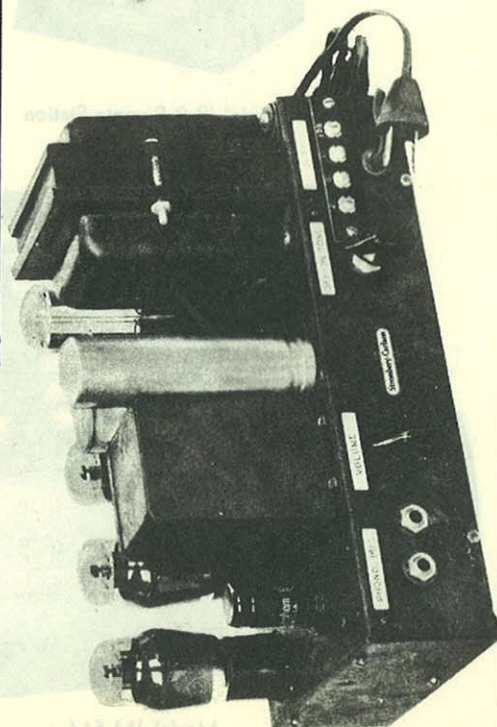
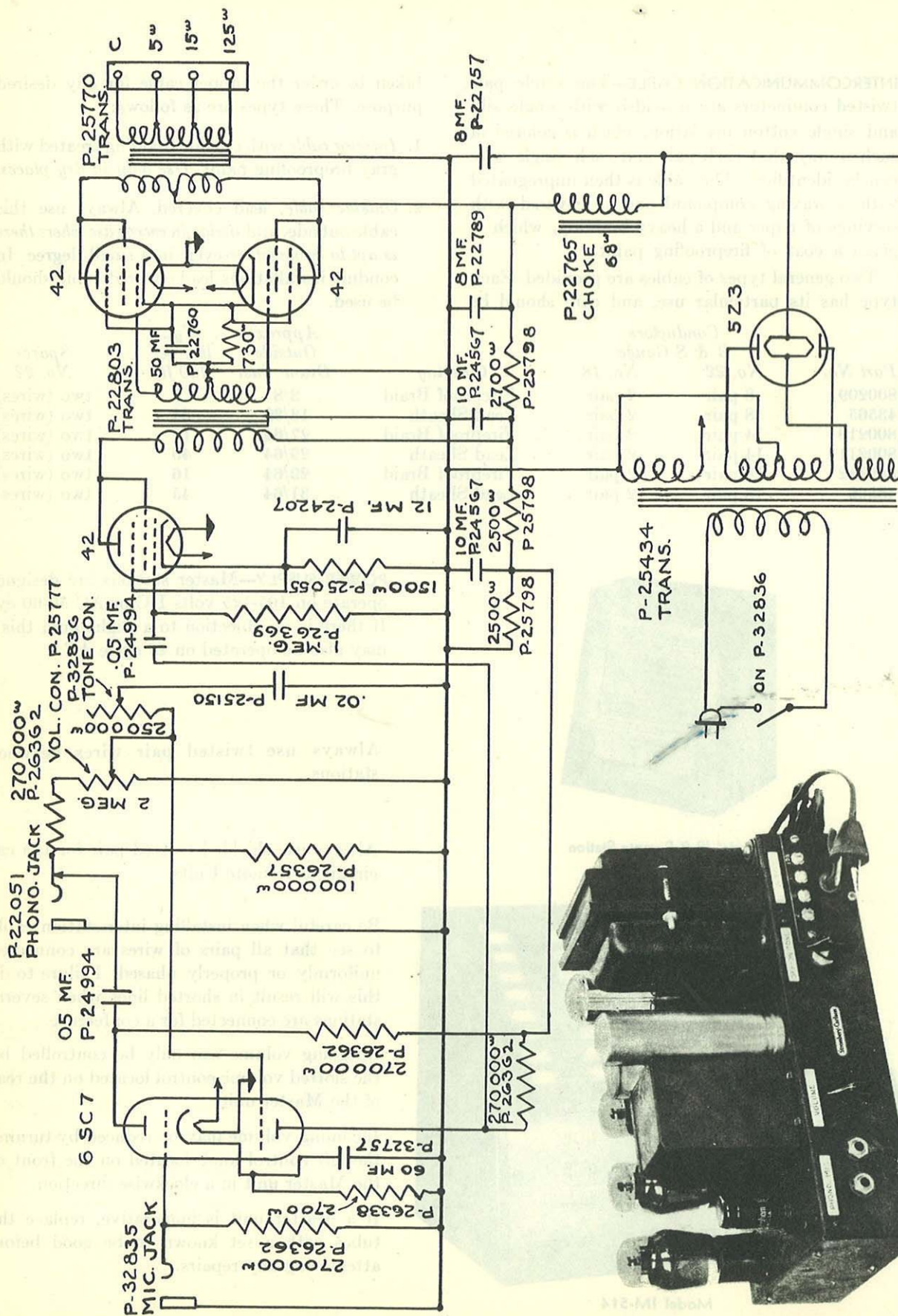


MODEL 18

STROMBERG-CARLSON CO.



STROMBERG-CARLSON CO.

MODEL 18

SPECIFICATIONS

POWER SUPPLY: 105 TO 125 VOLTS, 50 TO 60 CYCLES

INPUT IMPEDANCE: PHONOGRAPH INPUT, 500,000 OHMS;
MICROPHONE INPUT, 270,000 OHMS

OVERALL GAIN: 112 DB POWER GAIN, FROM MICROPHONE INPUT;
80 DB POWER GAIN, FROM PHONOGRAPH INPUT

FREQUENCY RESPONSE: 30 TO 7,500 CYCLES PER SECOND FLAT WITHIN 3 DB,
REFERRED TO 400 CYCLES

HUM LEVEL: 50 DB BELOW MAXIMUM SIGNAL

POWER OUTPUT: 10 WATTS AT 5% DISTORTION; 117 VOLT LINE

OUTPUT IMPEDANCE: 5, 15 AND 125 OHMS ARRANGED IN DUPLICATE, - SCREW
TERMINALS AND JACK TERMINALS

ACCESSORIES: P-25779 PROTECTIVE COVER

FINISH: COPPER-CLAD STEEL, BROWN CRACKLE FINISH OVERALL

SIZE: DEPTH, 6½"; LENGTH, 13½"; HEIGHT, 7½";
HEIGHT OVER COVER, 7¾"

WEIGHT: 19 LBS. NET; 30 LBS. PACKED FOR SHIPMENT.

NORMAL VOLTAGE READINGS
No. 18 AMPLIFIER

THESE VOLTAGE READINGS ARE OBTAINED BY MEASURING BETWEEN THE VARIOUS TUBE SOCKET TERMINALS AND THE CHASSIS BASE, WITH THE TUBES IN PLACE AND IN OPERATION.

VOLTAGES ARE GIVEN FOR A LINE VOLTAGE OF 117 VOLTS. ALLOWANCES SHOULD BE MADE FOR DIFFERENCES WHEN THE LINE VOLTAGE IS HIGHER OR LOWER.

A METER HAVING A RESISTANCE OF 1,000 OHMS PER VOLT SHOULD BE USED FOR MEASURING THE D.C. VOLTAGES.

TUBE SOCKET TERMINALS

<u>TUBE SOCKET</u>	<u>PLATE</u>	<u>SCREEN</u>	<u>CATHODE</u>	<u>HEATER</u>	<u>HEATER</u>	<u>A.C. ACROSS HEATER</u>
5Z3	—	—	—	420	420	5 VOLTS
42 DRIVER	230	230	20	—	—	6.3 VOLTS
42 OUTPUT	405	405	40	—	—	6.3 VOLTS
42 OUTPUT	405	405	40	—	—	6.3 VOLTS
6SC7	125	—	1.5	—	—	—
PLATE SUP.						

MODEL 18

STROMBERG-CARLSON CO.

ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

THE AMPLIFIER SHALL BE ARRANGED TO PROVIDE FOR TWO INPUTS, ONE FOR A HIGH IMPEDANCE PHONOGRAPH HAVING 80 DB GAIN MEASURED AT 400 CYCLES. AND THE OTHER FOR A HIGH IMPEDANCE MICROPHONE HAVING 112 DB GAIN MEASURED AT 400 CYCLES.

THE POWER OUTPUT SHALL BE 10 WATTS AT LESS THAN 5% DISTORTION TAKEN AT 117 VOLTS POWER INPUT. THE OVERALL FREQUENCY RESPONSE SHALL BE FLAT WITHIN PLUS OR MINUS 2 DB FROM 30 TO 7500 CYCLES.

THE OUTPUT SHALL BE TAPPED TO PROVIDE FOR IMPEDANCE MATCHING OF 5, 15 AND 125 OHMS, AND SHALL BE ARRANGED SO THAT PERMANENT WIRING MAY BE INSTALLED DIRECTLY TO SCREW TERMINALS.

THE AMPLIFIER EQUIPMENT SHALL BE MOUNTED ON A SINGLE CHASSIS APPROXIMATELY 6½" x 13½" x 7½" IN OUTSIDE DIMENSIONS AND SHALL BE FINISHED IN A NEAT BROWN CRACKLE.

IN THIS AMPLIFIER, TWO INPUT JACKS ARE PROVIDED. THE FIRST INPUT IS ARRANGED TO OPERATE WITH A HIGH IMPEDANCE PHONOGRAPH PICK-UP. WHEN THE PICK-UP IS PLUGGED INTO THE PHONOGRAPH JACK THE MICROPHONE IS AUTOMATICALLY CUT OFF. THE SECOND INPUT ALLOWS THE OPERATOR TO USE ANY TYPE OF HIGH IMPEDANCE MICROPHONE - DYNAMIC, CRYSTAL OR RIBBON - BY PLUGGING INTO THE PROPER JACK.

22757	CAPACITOR, 8 MF., 500 V.	1
22760	CAPACITOR, 50 MF., 100 V.	1
22789	CAPACITOR, 8 MF., 480 V.	1
24207	CAPACITOR, 12 MF., 25 V.	1
24567	CAPACITOR, 10 MF., 275 V. D.C.	1
24994	CAPACITOR, .05 MF., 400 V. D.C.	2
25150	CAPACITOR, .02 MF., 400 V. D.C.	1
32757	CAPACITOR, 60 MF., 25 V. D.C.	1
22765	CHOKE (POWER) 68 W.	1
24269	CORD A.C.	1
22051	JACK - PHONO INPUT	1
32835	JACK - MICROPHONE	1
24160	KNOB, V.C. AND TONE	2
25777	POTENTIOMETER V.C.	1
32836	POTENTIOMETER OFF-ON-TONE	1
25055	RESISTOR, 1500 OHMS	1
26338	RESISTOR, 2700 OHMS	1
26357	RESISTOR, 100,000 OHMS	1
26362	RESISTOR, 270,000 OHMS	4
26369	RESISTOR, 1 MEGOHM	1
25798	RESISTOR STICK, 2500, 2500, 2700, 730 OHMS	1
22803	TRANSFORMER, INTERSTAGE	1
25434	TRANSFORMER, POWER	1
25770	TRANSFORMER, OUTPUT	1
5529	SCREWS (MOUNT P-25798 RESISTOR)	2
1148	NUTS (MOUNT SAME)	4
15472	LOCKWASHERS (MOUNT SAME)	8
21100	SCREWS (MOUNT P-25434 TRANSFORMER)	4
1510	WASHERS (MOUNT SAME)	4
5900	NUTS (MOUNT SAME)	4
12937	LOCKWASHERS (MOUNT SAME)	4