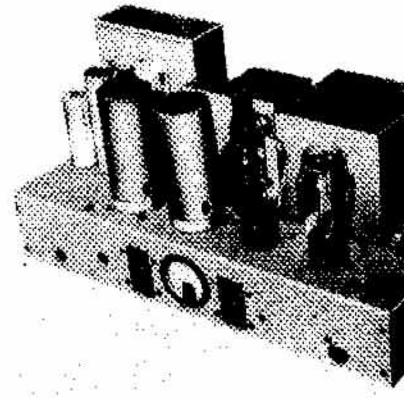
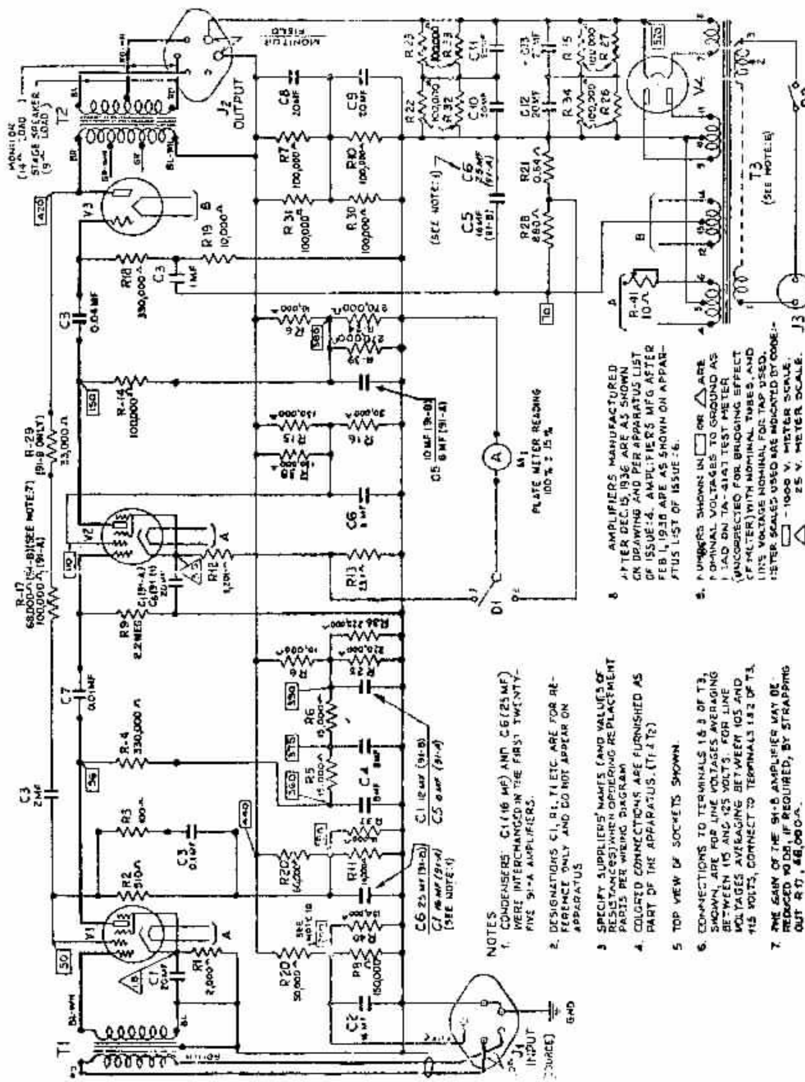
WESTERN ELECTRIC NO.91-A



DESIGNATIONS		APPARATUS
91-A	91-B	REPLACEMENT PARTS
C1	——	AEROVOX D 20-20/25V,15/100V COND
	C1	" D-20/25V, 12/500V COND
C2	C2	" E-16/400V COND
C3	C3	315A CONDENSER
C4, C5	C4	AEROVOX G-8-8/475V CONDENSER
——	C5	" G-10/500V,16/100V COND
C6	——	" D-25/200V,8/300V "
——	C6	" G-25/400V,0/200V,10/25V "
C7	C7	[illegible] CONDENSER
C8, C11, C13	C8, C11, C13	AEROVOX GL-20/500V CONDENSER
C9, C10, C12	C9, C10, C12	" G-20/500V "
D1	D1	H & H 21350 SWITCH
D2	D2	H & H 20932 "
J1	J1	AP-15TO-5 SOCKET
J2	J2	AP-15TO-8 "
J3	J3	H & H 754 MOTOR BASE RECEPT
M1	M1	[illegible] METER
R1, R2, R11, R12, R15, R17, R37, R38	R1, R2, R11, R12, R15, R17, R37, R38	AB TYPE HB-2W-5% RESISTOR
R3-R5, R7-R10, R14, R18, R19, R22-R27, R30-R36, R39, R40	R3-R5, R7-R10, R14, R18, R19, R22-R27, R30-R36, R39, R40	" " " " 10% "
R6	R6	IRC PW349-35,000Ω TAPPED 15,000,10,000,10,000 TYPE 2 [illegible]
R13	R13	6SES RESISTANCE
R20	R20	IRC PR347 SPEC [illegible] 110,000Ω TAPPED 50,000 TYPE 2 [illegible]
R21	R21	[illegible] RESISTANCE
R28	R28	WL TYPE 1"B 880Ω [illegible]
R41	R41	WL 254 10Ω 25W ADJ 756 [illegible]
T1	T1	285A TRANS
T2	T2	TM 222 "
T3	T3	TM 600 "
V1, V2	V1, V2	6C6 VACUUM TUBE
V3	V3	300B " "
V4	V4	274A " "



NOTES

1. CONDENSERS: C1 (16 MF) AND C6 (25 MF) WERE INTERCHANGED IN THE FIRST TWENTY-FIVE 91-A AMPLIFIERS.
2. DESIGNATIONS C1, R1, T1 ETC. ARE FOR REFERENCE ONLY AND DO NOT APPEAR ON APPARATUS.
3. SPECIFY SUPPLIERS' NAMES (AND VALUES OF RESISTANCES) WHEN ORDERING REPLACEMENT PARTS PER WIRING DIAGRAM.
4. COLORED CONNECTIONS ARE FURNISHED AS PART OF THE APPARATUS. (T1 & T2)
5. TOP VIEW OF SOCKETS SHOWN.
6. CONNECTIONS TO TERMINALS 1 & 3 OF T3, SHOWN, ARE FOR LINE VOLTAGES AVERAGING BETWEEN 115 AND 125 VOLTS. FOR LINE VOLTAGES AVERAGING BETWEEN 105 AND 115 VOLTS, CONNECT TO TERMINALS 1 & 2 OF T3.
7. THE GAIN OF THE 91-B AMPLIFIER MAY BE REDUCED 10 DB, IF REQUIRED, BY STRAPPING OUT R17, 68,000Ω.
8. AMPLIFIERS MANUFACTURED AFTER DEC. 15, 1936 ARE AS SHOWN ON DRAWING AND PER APPARATUS LIST OF ISSUE:4. AMPLIFIERS MFG AFTER FEB 1, 1938 ARE AS SHOWN ON APPARATUS LIST OF ISSUE:6.
9. NUMBERS SHOWN IN □ OR △ ARE NOMINAL VOLTAGES TO GROUND AS READ ON TA-4147 TEST METER (UNCORRECTED FOR BRIDGING EFFECT OF METER) WITH NOMINAL TUBES, AND LINE VOLTAGE NOMINAL FOR TAP USED. METER SCALES USED ARE INDICATED BY CODE:-
   - □ - 1000 V. METER SCALE.
   - △ 25 V. METER SCALE.
10. VOLTAGE SHOWN IS MEASURED WITH P.E.C. TERMINAL OF AMPLIFIER CONNECTED TO NORMAL LOAD.