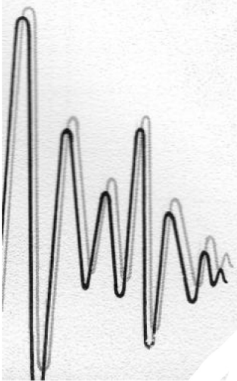


CHANNEL MASTER

Transistor Radio
Service Manual
and
Spare Parts List

model
6515



ELLENVILLE, NEW YORK

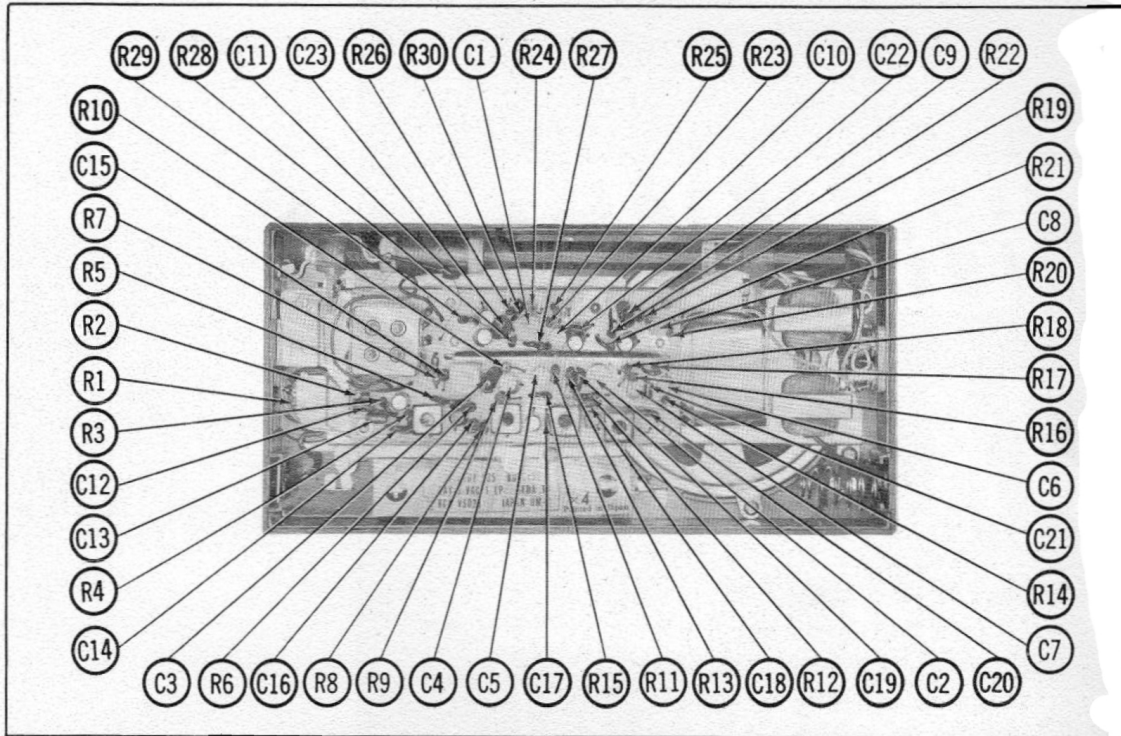


Fig. 1. Top View of Chassis--Capacitor and Resistor Identification

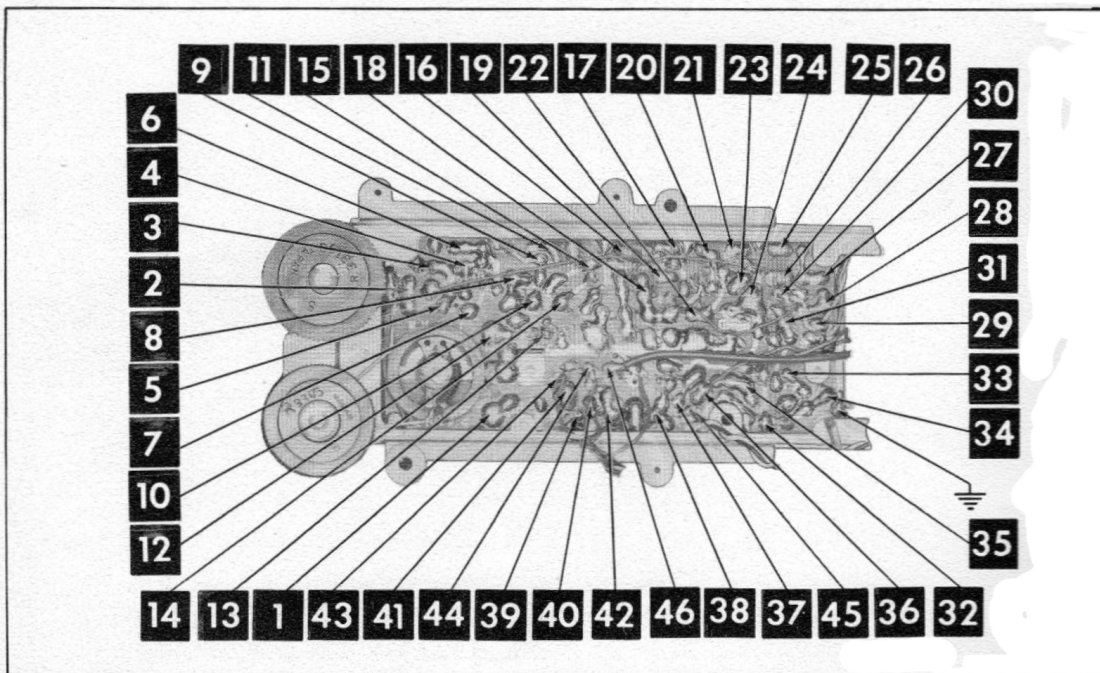


Fig. 2. Bottom View of Chassis--Location of Printed Circuit Points

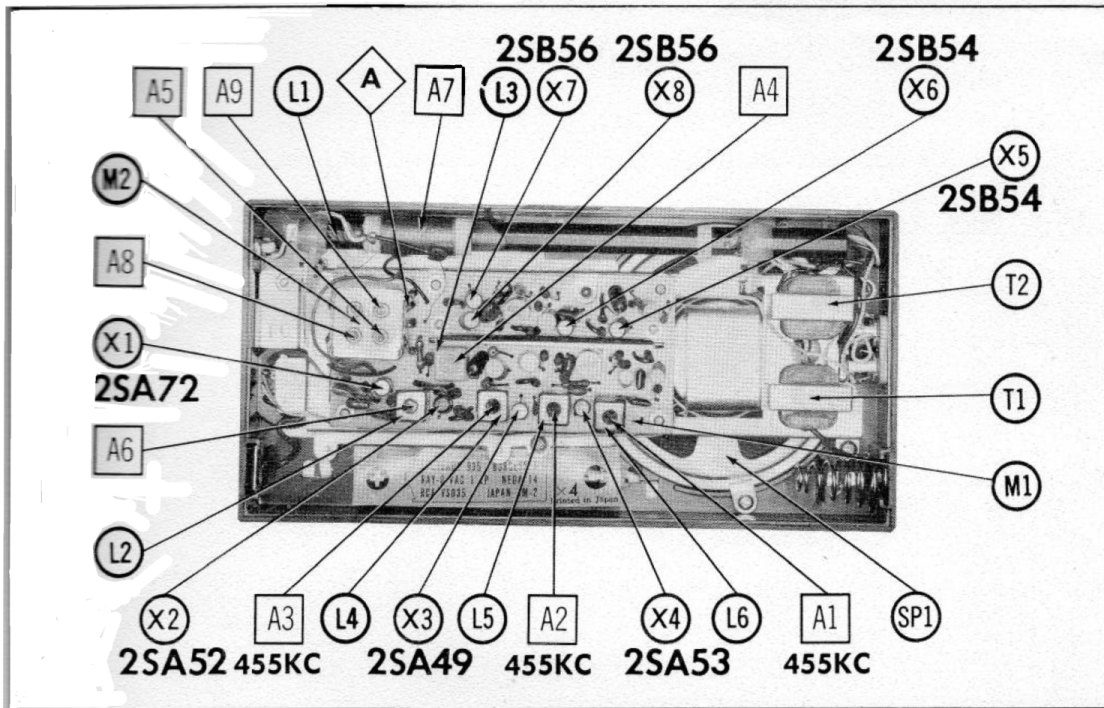


Fig. 4. Top View of Chassis--Transistor, Coil, and Alignment Point Identification

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT						
<ol style="list-style-type: none"> Volume control should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading. Use an insulated alignment screwdriver for adjusting. 						
	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
1.	High side through .1 mfd to point \diamond (antenna section of tuning gang). Low side to printed circuit board ground.	455 KC (400 \sqrt Mod.)	Tuning gang fully closed.	Across voice coil.	A1, A2, A3	Adjust for maximum output.
2.	"	530KC	"	"	A4	"
3.	"	1650KC	Tuning gang fully open.	"	A5	Adjust for maximum output. Repeat steps 2 and 3.
4.	"	600KC	600KC	"	A6, A7	Adjust for maximum output.
5.	"	1400KC	1400KC	"	A8, A9	Adjust for maximum output. Repeat steps 4 and 5.

PARTS LIST

Ref. No.	Part No.	Description
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TRANSISTORS

NTE 126
NTE 126
NTE 126
NTE 160
NTE 160
NTE 160
NTE 102A
NTE 102A

X1	D012	2SA72 (PNP), RF Amplifier
X2	D005	2SA52 (PNP), Converter
X3	D010	2SA49 (PNP), 1st IF Amplifier
X4	D006	2SA53 (PNP), 2nd IF Amplifier
X5	D011	2SB54 (PNP), AF Amplifier
X6	D011	2SB54 (PNP), Driver
X7	D008	2SB56 (PNP), Output
X8	D008	2SB56 (PNP), Output

CAPACITORS

C1	A031	50 mfd @ 9V, Electrolytic
C2	A031	50 mfd @ 9V, Electrolytic
C3	A010	5 mfd @ 6V, Electrolytic
C4	A046	30 mfd @ 3V, Electrolytic
C5	A046	30 mfd @ 3V, Electrolytic
C6	A038	10 mfd @ 3V, Electrolytic
C7	A038	10 mfd @ 3V, Electrolytic
C8	A046	30 mfd @ 3V, Electrolytic
C9	A010	5 mfd @ 6V, Electrolytic
C10	A046	30 mfd @ 3V, Electrolytic
C11	A057	2 mmf @ 50V, 10%, Ceramic Disc
C12	A056	40,000 mmf @ 50V, 20%, Mylar
C13	A056	40,000 mmf @ 50V, 20%, Mylar
C14	A054	20,000 mmf @ 50V, 20%, Mylar
C15	A055	1000 mmf, Mylar Tubular
C16	A052	4000 mmf, 20%, Mylar
C17	A012	5 mmf @ 25V, 10%, Ceramic
C18	A012	5 mmf @ 25V, 10%, Ceramic
C19	A056	40,000 mmf @ 50V, 20%, Mylar
C20	A054	20,000 mmf @ 50V, 20%, Mylar
C21	A054	20,000 mmf @ 50V, 20%, Mylar
C22	A054	20,000 mmf @ 50V, 20%, Mylar
C23	A060	50,000 mmf, Mylar Tubular

CONTROLS & RESISTORS

R1	E015	5000Ω, Volume Control and Off-On Switch
R2		2000Ω, 10%, 1/2 Watt, Carbon
R3		1000Ω, 10%, 1/2 Watt, Carbon
R4		30KΩ, 10%, 1/2 Watt, Carbon
R5		2200Ω, 10%, 1/2 Watt, Carbon
R6		4000Ω, 10%, 1/2 Watt, Carbon
R7		5600Ω, 10%, 1/2 Watt, Carbon
R8		1500Ω, 10%, 1/2 Watt, Carbon
R9		90KΩ, 10%, 1/2 Watt, Carbon
R10		24KΩ, 10%, 1/2 Watt, Carbon
R11		2200Ω, 10%, 1/2 Watt, Carbon
R12		1000Ω, 10%, 1/2 Watt, Carbon
R13		1000Ω, 10%, 1/2 Watt, Carbon
R14		1000Ω, 10%, 1/2 Watt, Carbon
R15		5600Ω, 10%, 1/2 Watt, Carbon
R16		30KΩ, 10%, 1/2 Watt, Carbon

Ref. No.	Part No.	Description
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CONTROLS & RESISTORS (Cont'd.)

R17		5600Ω, 10%, 1/2 Watt, Carbon
R18		1000Ω, 10%, 1/2 Watt, Carbon
R19		400Ω, 10%, 1/2 Watt, Carbon
R20		1000Ω, 10%, 1/2 Watt, Carbon
R21		30KΩ, 10%, 1/2 Watt, Carbon
R22		5600Ω, 10%, 1/2 Watt, Carbon
R23		400Ω, 10%, 1/2 Watt, Carbon
R24		20Ω, 10%, 1/2 Watt, Carbon
R25		1000Ω, 10%, 1/2 Watt, Carbon
R26		130Ω, 10%, 1/2 Watt, Carbon
R27		1000Ω, 10%, 1/2 Watt, Carbon
R28		2500Ω, 10%, 1/2 Watt, Carbon
R29		5Ω, 10%, 1/2 Watt, Carbon
R30	F150	Thermistor, Temperature Compensation.

TRANSFORMERS

T1	C040	Driver
T2	C041	Output

COILS

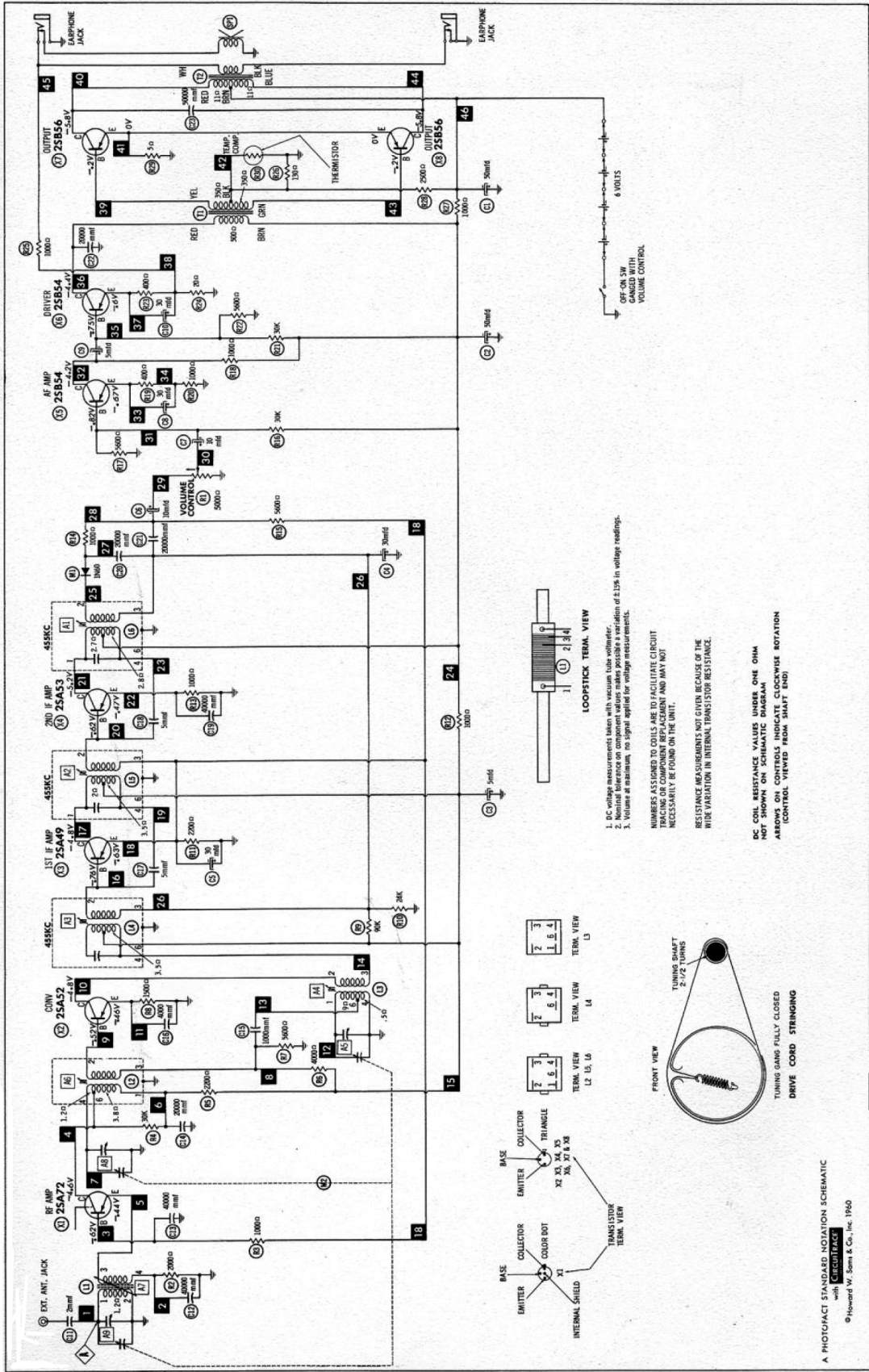
L1	E025	Loopstick
L2	C045	RF Coil
L3	F193	Oscillator Coil
L4	C042	1st IF
L5	C043	2nd IF
L6	C044	3rd IF

MISCELLANEOUS

M1	F136	Crystal Diode (1N60)-Detector
M2	A059	Tuning Capacitor (3-Gang)
SP1	G097	Speaker (3 1/2")
	E001	Earphone Jack (2 used)
	E018	External Antenna Jack
	E004	External Antenna with Plug and Cord Ass'y.
	E002	Earphone
	F037	Dial Pointer
	F030	Antenna Holder (2 used)
	F033	Battery Cylinder
	F191	"Plus" (+) Terminal Clip
	F192	"Minus" (-) Terminal Clip
	F038	Dial Back Plate

CABINET PARTS

Name	Part No.	Description
Cabinet	G021	Black
Cabinet	G022	Red
Case	F071	Carrying Strap
Case	F064	Earphone
Knob	F034	Volume
Knob	F035	Tuning



1. DC voltage measurements taken with vacuum tube voltmeter.
 2. Nominal tolerance on component values; main portions of resistors are of $\pm 1\%$ in voltage readings.
 3. Values of minimum, no signal applied for voltage measurements.
- NUMBERS ASSIGNED TO COILS ARE TO FACILITATE CIRCUIT TRACING OR COMPONENT REPLACEMENT AND MAY NOT NECESSARILY BE FOUND ON THE UNIT.
- RESISTANCE MEASUREMENTS NOT GIVEN BECAUSE OF THE WIDE VARIATION IN INTERNAL TRANSISTOR RESISTANCE.

DC COIL RESISTANCE VALUES UNDER ONE OHM NOT SHOWN ON SCHEMATIC DIAGRAM
 ARROWS ON CONTROLS INDICATE COUNTERCLOCKWISE ROTATION (CONTROL VIEWED FROM SHAFT END)

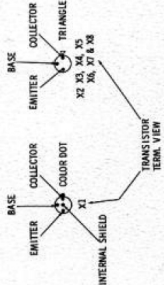
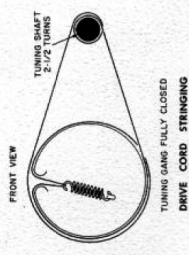
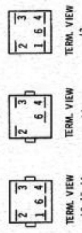
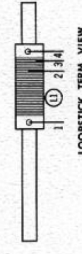


Fig. 3. Schematic