

Most - Often - Needed

1951

VOLUME ELEVEN

RADIO
DIAGRAMS

and Servicing Information



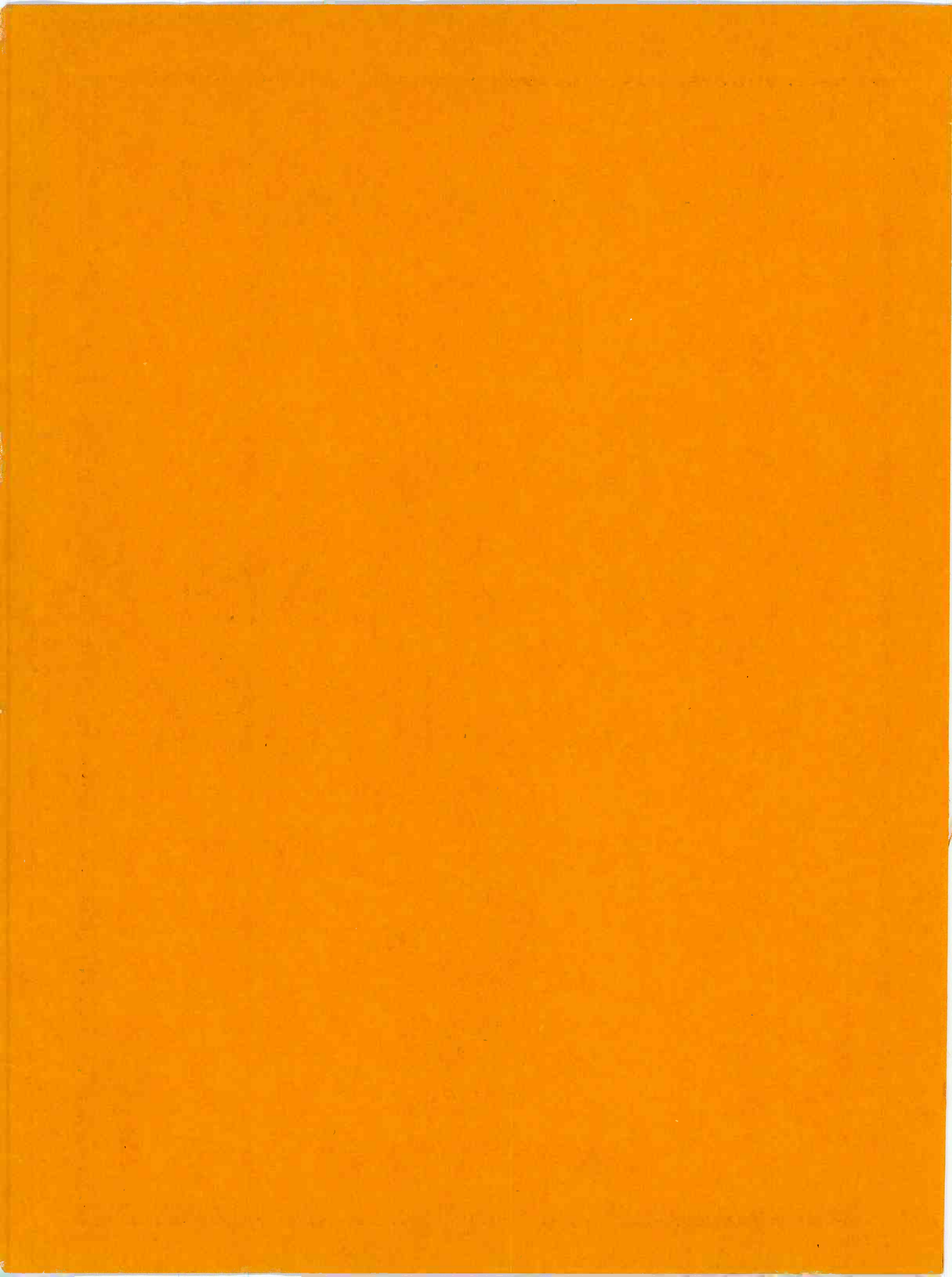
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VOLUME 11

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SUPREME PUBLICATIONS



Most - Often - Needed

1951

RADIO
DIAGRAMS
and Complete INDEX

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M. N. BEITMAN



SUPREME PUBLICATIONS
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MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Introduction

In this new Supreme Publications eleventh volume, you will find helpful service material on all popular 1951 radios including AM and FM types, portables, auto sets, combinations, and record changers. Again you benefit with SUPREME tremendous volume-sales by being able to purchase this complete manual — a year's supply of diagrams and service data — at a real bargain price. It is our privilege and pleasure to continue to aid radio servicemen with service manuals and books as we cross into the nineteenth year of our company's existence.

The separate index to this Volume 11, 1951 Radio manual, begins on page 3, directly opposite this page, and continues on pages 4 and 5. This index catalogs all models covered in this manual and refers to pages in this manual where such material is described. Use this index to find the 1951 radio material you need.

The majority of service facts presented in this volume have been supplied by the manufacturers of the radios described. Our sincere thanks is given to these manufacturers for their fine cooperation and help.

M. N. Beitman

July 2, 1951
Chicago

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MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Index

Always use this Index to find needed material in this Volume 11, 1951 RADIO Diagram manual. You will find the various makes of radios listed in alphabetical order by manufacturer's name. Under each make, models or chassis are listed in numerical order at the left of the column while the corresponding page numbers are given to the right.

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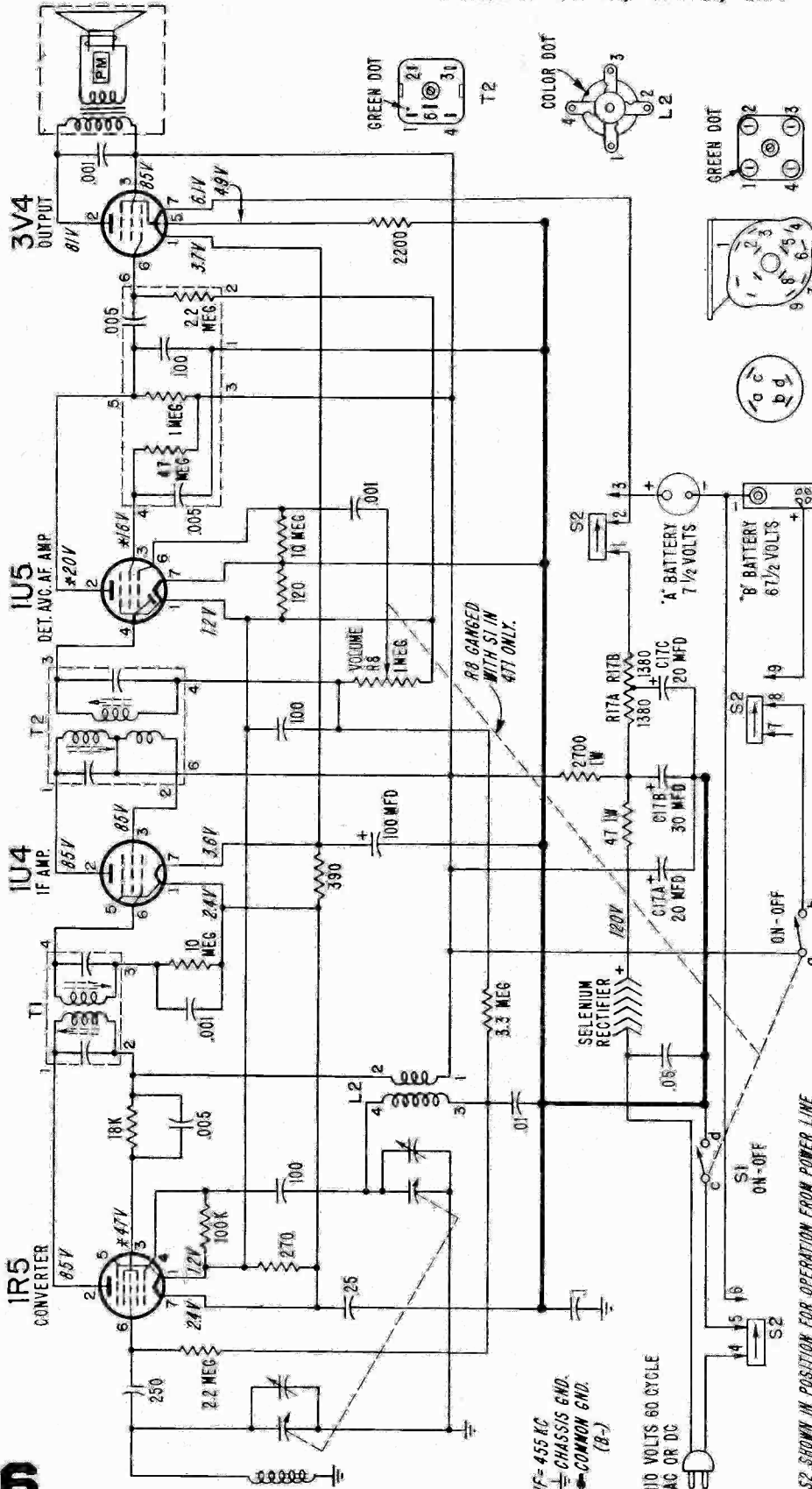
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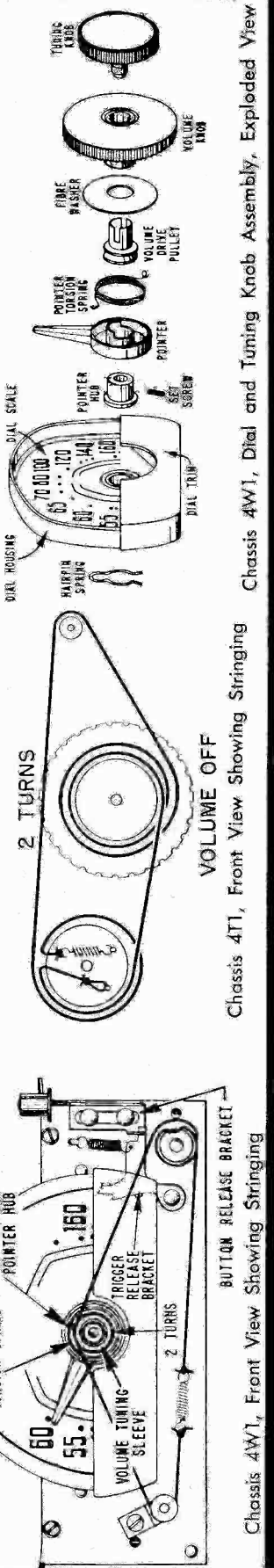
Admiral

CHASSIS 4W1 and 4T1
MODELS 4W18, 4W19, and 4T11



S2 SHOWN IN POSITION FOR OPERATION FROM POWER LINE

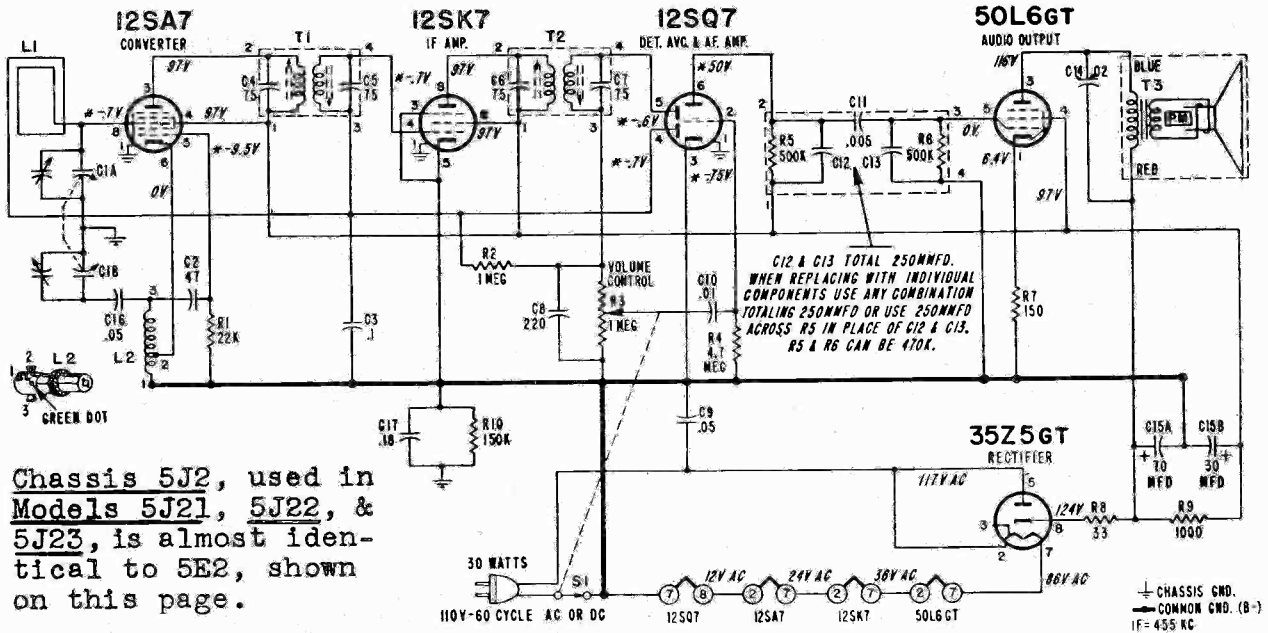
*These readings will be either lower or practically zero if taken with a 1000 ohm-per-volt meter



MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Admiral

CHASSIS 5E2
MODELS 5E21, 5E22, 5E23



Chassis 5J2, used in Models 5J21, 5J22, & 5J23, is almost identical to 5E2, shown on this page.

*These readings will be either lower or practically zero if taken with a 1000 ohm-per-volt meter.

ALIGNMENT PROCEDURE

- Connect output meter across speaker voice coil.
- Turn receiver volume control full on.
- Use an isolation transformer if available, otherwise connect a .1 mfd. condenser in series with low side of signal generator and connect to chassis.

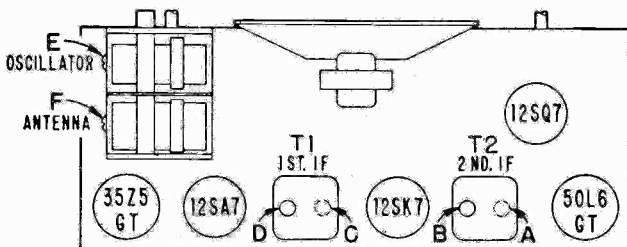
VOLTAGE DATA

All readings made between tube socket terminals and B minus (terminal of On-Off switch).
Dial turned to low frequency end; volume control at minimum.
Measured on 117 Volts AC line.
Voltages measured with Vacuum Tube Voltmeter.

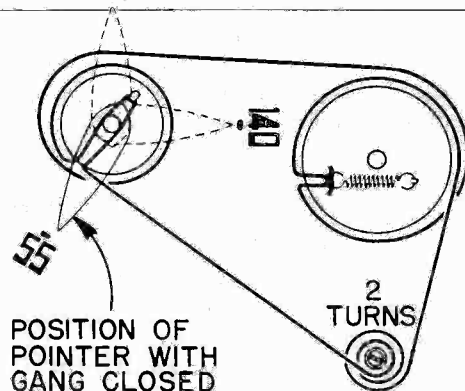
| Step | Dummy Antenna in Series with Signal Generator | Connection of Signal Generator (High Side) | Signal Generator Frequency | Receiver Gang Setting | Trimmer Description | Trimmer Designation | Type of Adjustment |
|------|--|--|----------------------------|--------------------------|----------------------|---------------------|--------------------|
| 1 | 250 mmfd. condenser | Antenna stator of tuning condenser | 455 KC | Gang fully open | 2nd IF 1st IF* | *A, B *C, D | Maximum Output |
| 2 | 250 mmfd. condenser | Antenna stator of tuning condenser | 1620 KC | Gang fully open | Oscillator (on gang) | E | Maximum Output |
| 3 | Loop of several turns of wire or place generator lead close to receiver loop for adequate signal pickup. | No actual connection (signal by radiation) | 1400 KC | Tune in generator signal | Antenna (on gang) | F | Maximum Output |
| 4 | Mount and set dial pointer as shown in Pointer Setting and Dial Cord Stringing Diagram. | | | | | | |

*Adjustments A and C made from the underside of the chassis.

TUBE AND TRIMMER LOCATION



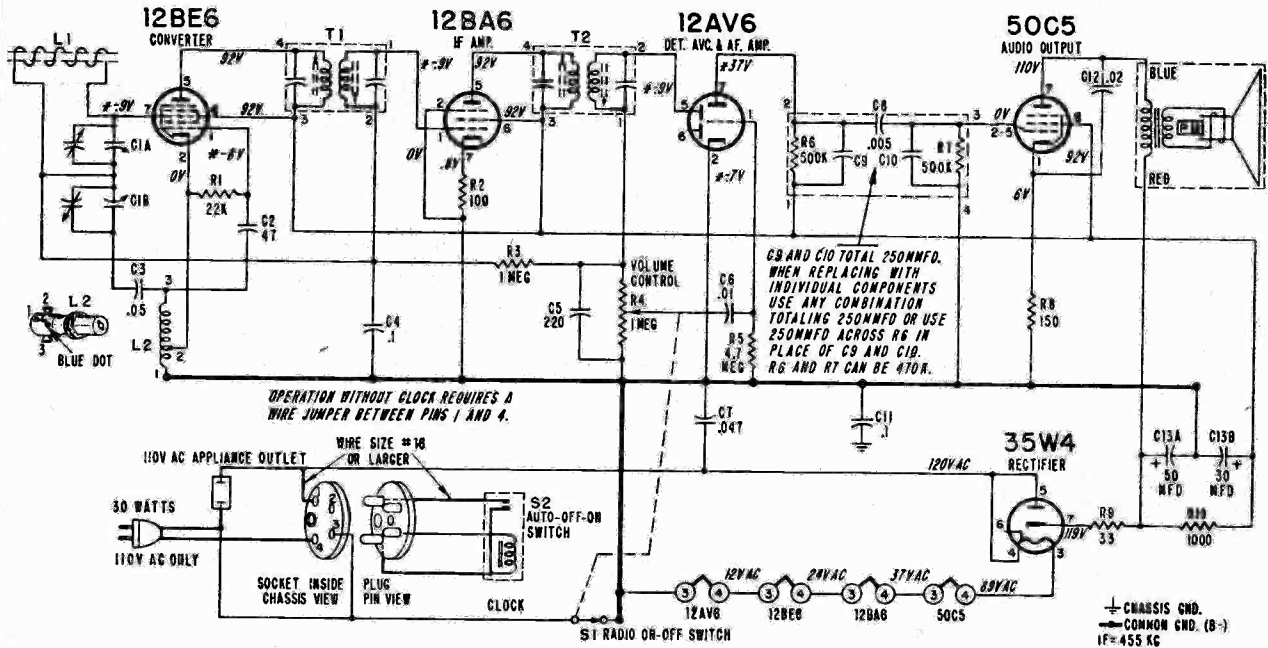
Adjustments A and C are made from underside of chassis.



MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Admiral

CHASSIS 5G2
 MODELS 5G21, 5G22, 5G23,
 5G21/15, 5G22/15, 5G23/15



*These readings will be either lower or practically zero if taken with a 1000 ohm-per-volt meter.

OPERATING RADIO MANUALLY

To operate the radio manually, the "Auto-Off-On" switch must be in the "On" position or the radio will not operate.

The radio on-off switch will turn the radio on or off, but will have no control over the appliance or the clock.

TO REMOVE CLOCK from CABINET

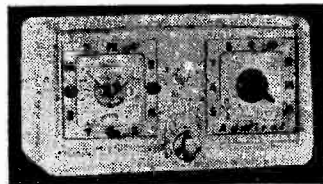
(Radio chassis need not be removed when removing clock)

1. Remove the back from radio cabinet.
2. Remove the clock plug from the socket on top of the radio chassis, by removing screw from top of plug and gently prying plug out from socket.
3. Turn the slumber switch to the "60" position.
4. Remove the 3 nuts which hold the clock back cover to the clock.
5. Carefully pull the clock through the front of the cabinet while twisting it slightly to eliminate binding.

TO REMOVE FIELD and COIL ASSEMBLY or TO REMOVE ROTOR

The field and coil assembly and the rotor can be easily removed after the two screws which mount the nameplate are removed.

Note that when the rotor is replaced, the gear on the rotor must drop into the hole in the center of the gear plate and mesh with the clock gear.

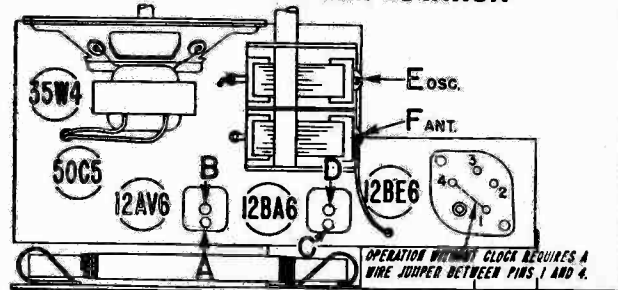


VOLTAGE DATA

Voltages shown on schematic diagram

- All readings made between tube socket terminals and B minus (terminal of On-Off switch).
- Measured on 117 Volt AC line.
- Volume control minimum; dial turned to low frequency end.
- Voltages measured with Vacuum Tube Voltmeter.

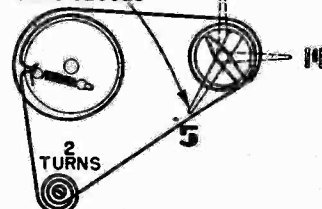
TUBE AND TRIMMER LOCATION



Adjustments A and C made from underside of chassis.

DIAL STRINGING AND POINTER SETTING

POSITION OF POINTER WITH GANG CLOSED

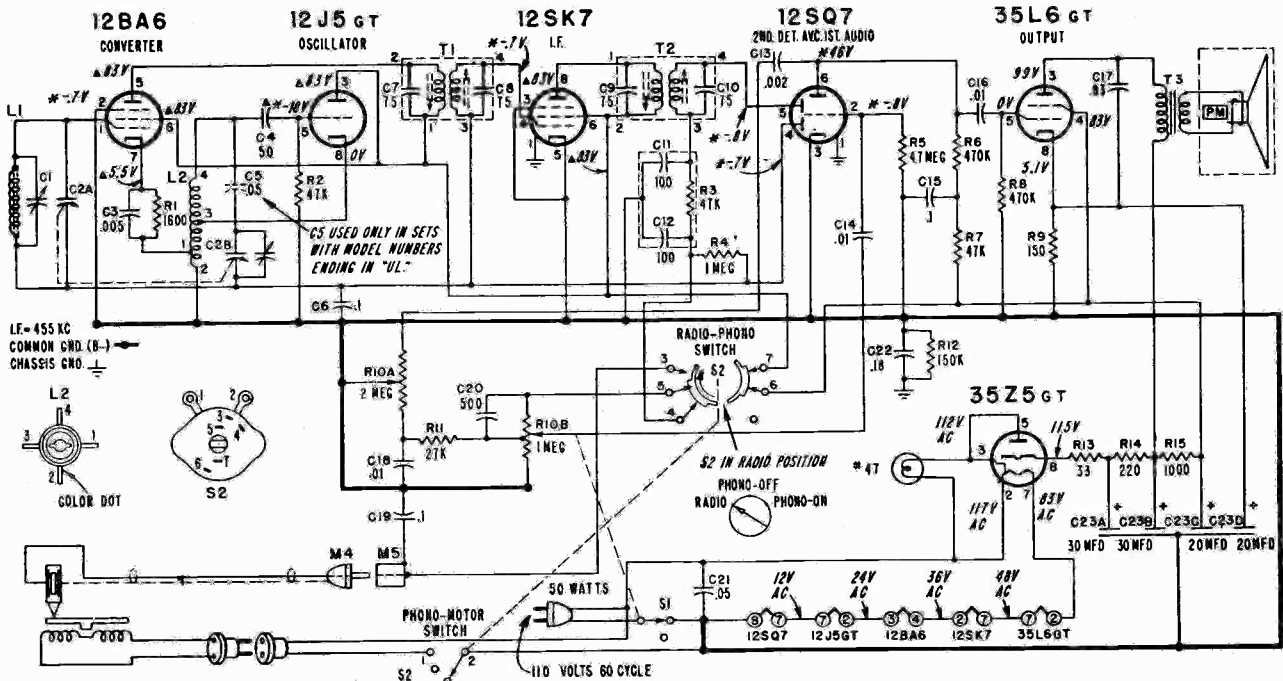


Dial stringing and pointer with solid lines shown with gang closed. Dashed line pointer positions (1400 KC and 900 KC) shown when tuning condenser is tuned to generator signal.

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Admiral

CHASSIS 6J2
MODELS 6J21, 6J22



*These readings will be either lower or practically zero if taken with a 1000 ohm-per-volt meter.
▲ These readings will be zero on "Phono"; all other DC readings may be slightly higher.

| Step | Dummy Antenna in Series with Signal Generator | Connection of Signal Generator (High Side) | Signal Generator Frequency | Receiver Gang Setting | Trimmer Description | Trimmer Designation | Type of Adjustment |
|------|---|--|----------------------------|-----------------------|---------------------|---------------------|--------------------|
| 1 | 250 mmfd. condenser | Tuning condenser, antenna stator | 455 KC | Gang fully open | 2nd IF 1st IF | *A, B *C, D | Maximum output |
| 2 | 250 mmfd. condenser | Tuning condenser, antenna stator | 1620 KC | Gang fully open | Oscillator | E | Maximum output |

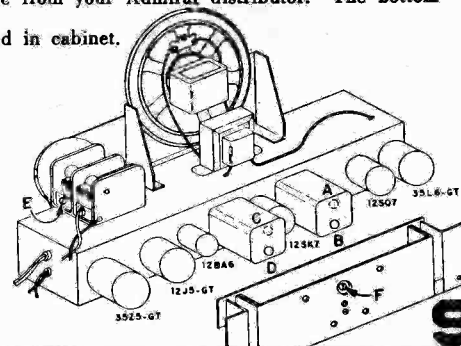
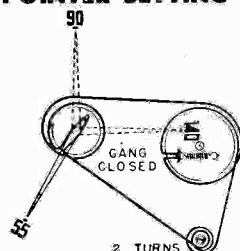
Mount dial pointer. Set pointer to horizontal position with tuning condenser tuned to 1400 KC generator signal (see illustration below). Rotate the tuning condenser until the pointer is in a vertical position (900 KC), then slip chassis in cabinet, carefully guiding the pointer so that it locates between the dial escutcheon and the cabinet. Install antenna and chassis mounting bolts. The pointer and escutcheon may be mounted after installing the chassis in cabinet as follows: Set pointer to horizontal position with gang tuned to 1400 KC signal. Place escutcheon on cabinet. With long nose pliers slip the hairpin ends of the escutcheon mounting springs in holes of escutcheon tabs.

| | | | | | | | |
|---|--|--|---------|--------------------------|---------|----|----------------|
| 3 | Loop of several turns of wire, or place generator lead close to receiver antenna for adequate signal pickup. | No actual connection (signal by radiation) | 1400 KC | Tune in generator signal | Antenna | †F | Maximum output |
|---|--|--|---------|--------------------------|---------|----|----------------|

*Adjustments A and C made from the underside of the chassis. If IF transformers have hollow core slugs, these adjustments may all be made from the top of chassis, if you use alignment tool #98A30-7 obtainable from your Admiral distributor. The bottom IF slug adjustment may be reached through the hollow core in the upper slug.
† Antenna Trimmer "F" should be aligned after chassis and antenna are mounted in cabinet.

DIAL STRINGING AND POINTER SETTING

Dial stringing and pointer with solid lines shown with gang closed. Dashed line pointer positions (1400 KC and 900 KC) shown when tuning condenser is tuned to generator signal.



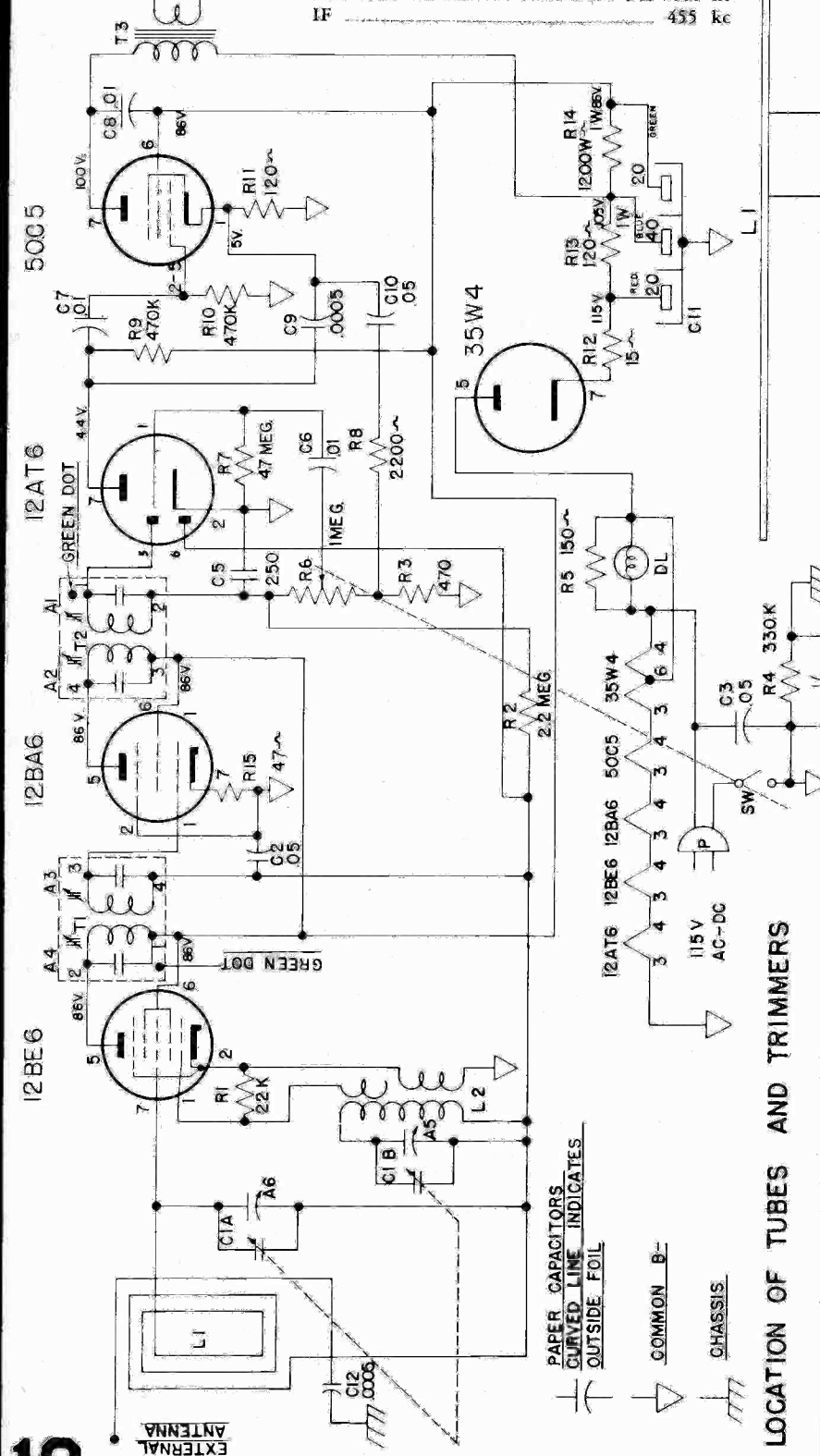
MANUAL OF 1951 RADIO DIAGRAMS

ARVIN RADIOS, MODELS 450T AND 451T

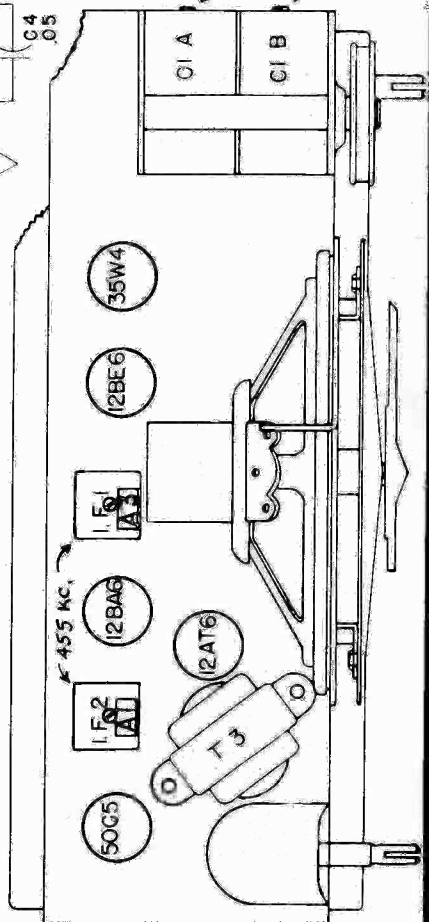
CHASSIS RE-281, 5 TUBE AC-DC

FREQUENCY RANGE

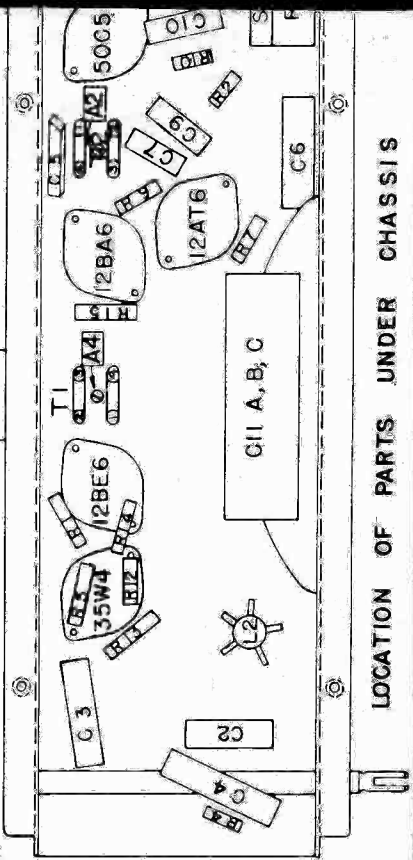
Broadcast 540-1600 kc
 IF 455 kc



LOCATION OF TUBES AND TRIMMERS



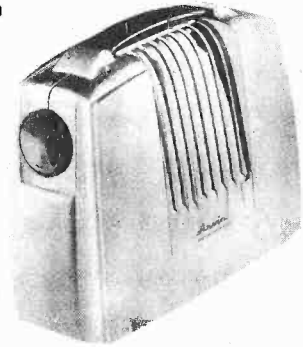
LOCATION OF PARTS UNDER CHASSIS



MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

ARVIN RADIO

ARVIN RADIO, MODEL 446P; CHASSIS-RE-280
4 TUBE BATTERY PORTABLE



FREQUENCY RANGE

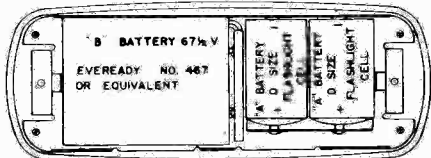
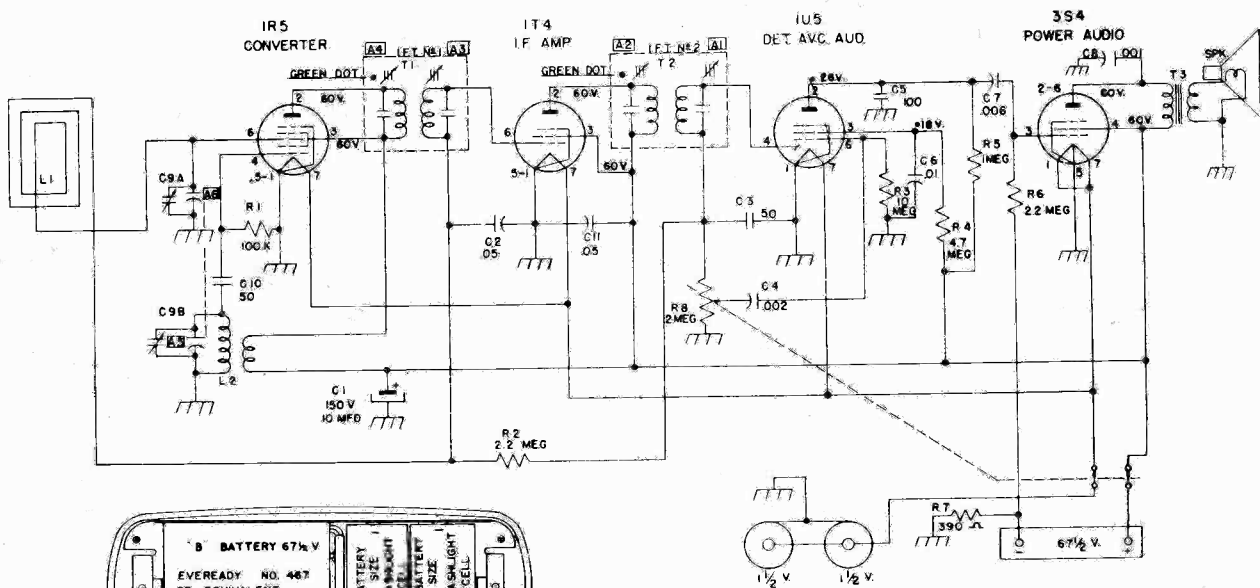
Broadcast 540-1600 kc
IF 455 kc

POWER SUPPLY

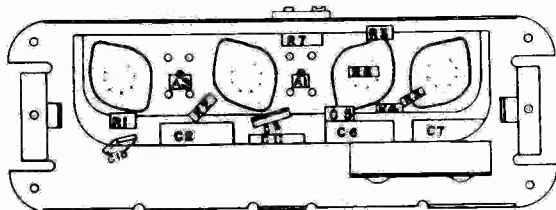
1 6 7/2 V. B. Battery, Eveready Minimax, No. 467 or Equal.
2 1 1/2 V. D. Size Flashlight Cells, Connected in Parallel.

POWER OUTPUT

Undistorted06 Watts
Maximum15 Watts
Plate Load 10,000 Ohms

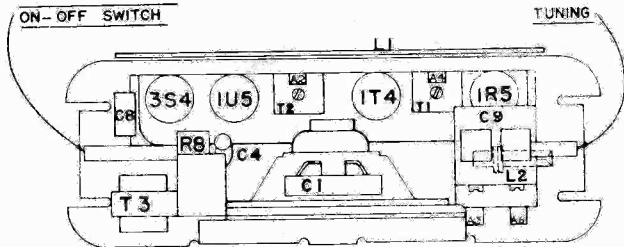


BATTERY INSTALLATION



LOCATIONS OF PARTS UNDER CHASSIS

VOLUME CONTROL
ON-OFF SWITCH



TUBE LAYOUT

* MEASURED WITH VACUUM TUBE VOLTMETER

ALIGNMENT DATA

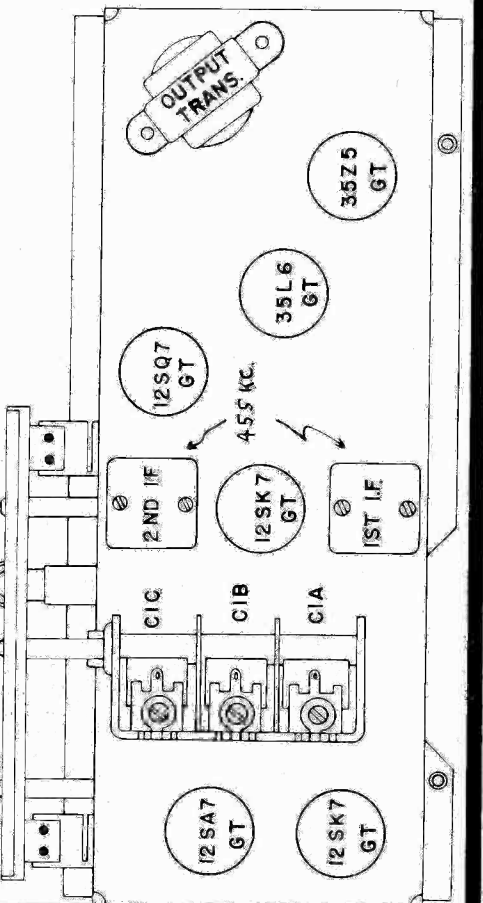
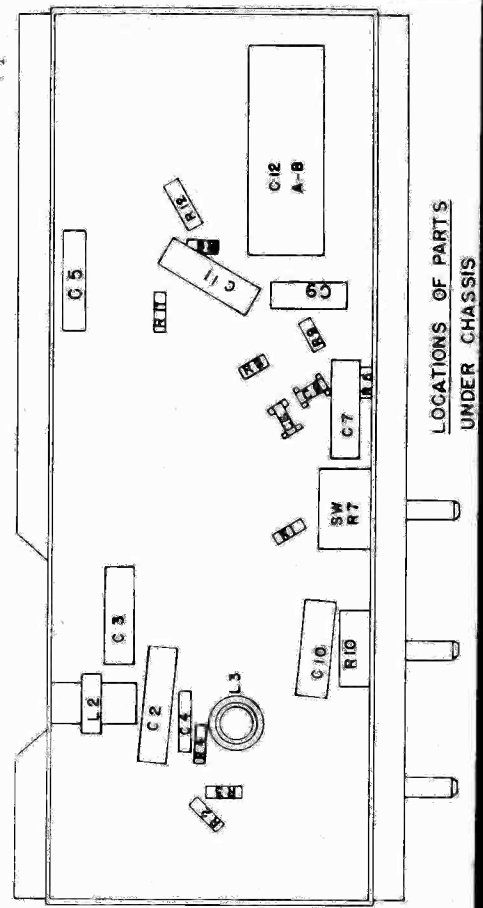
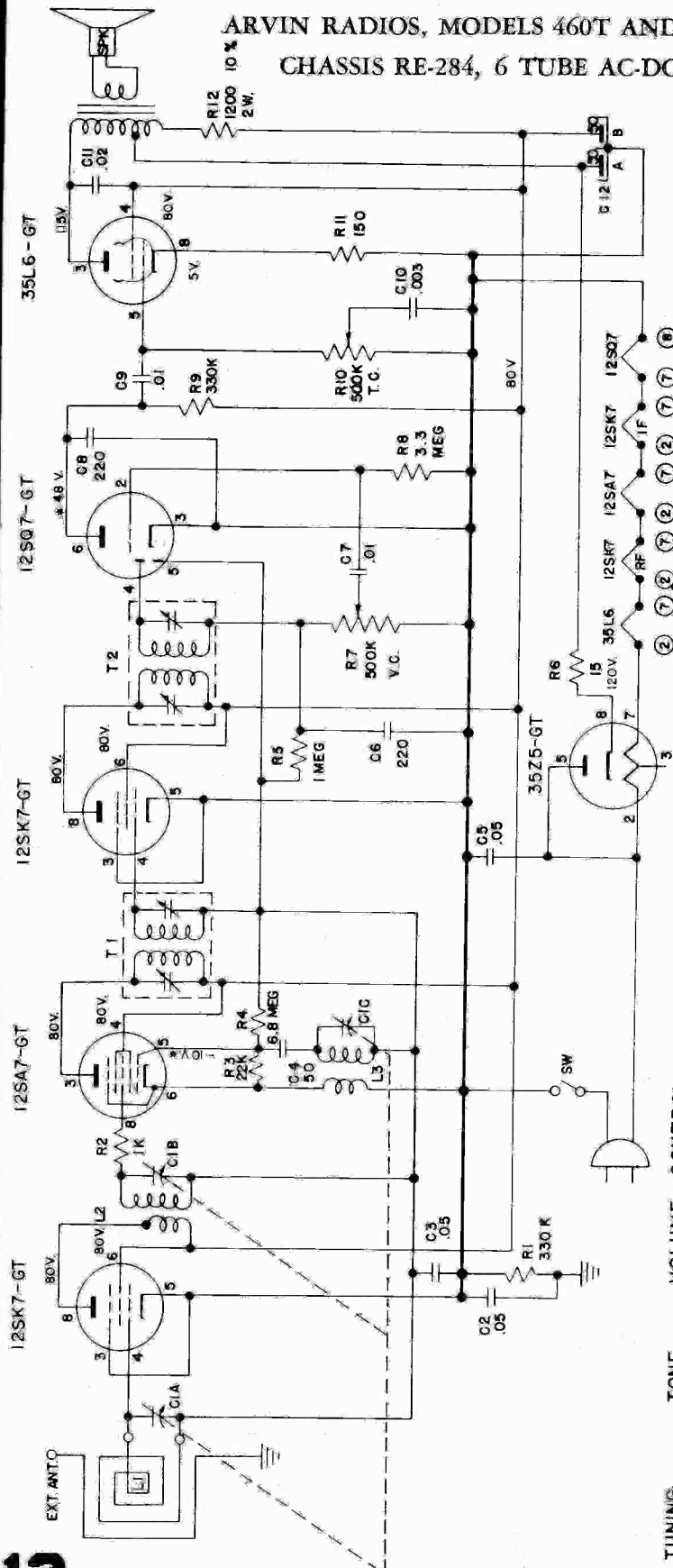
Preliminary

Output meter reading to indicate .05 watt across voice coil 0.4 V.
Generator ground lead connected to metal chassis.
Generator modulation 30%, 400 cycles.
Position of Volume control fully on.

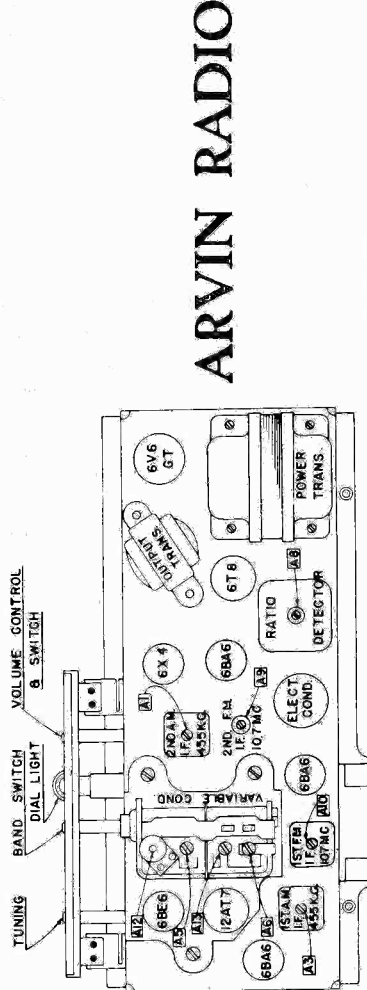
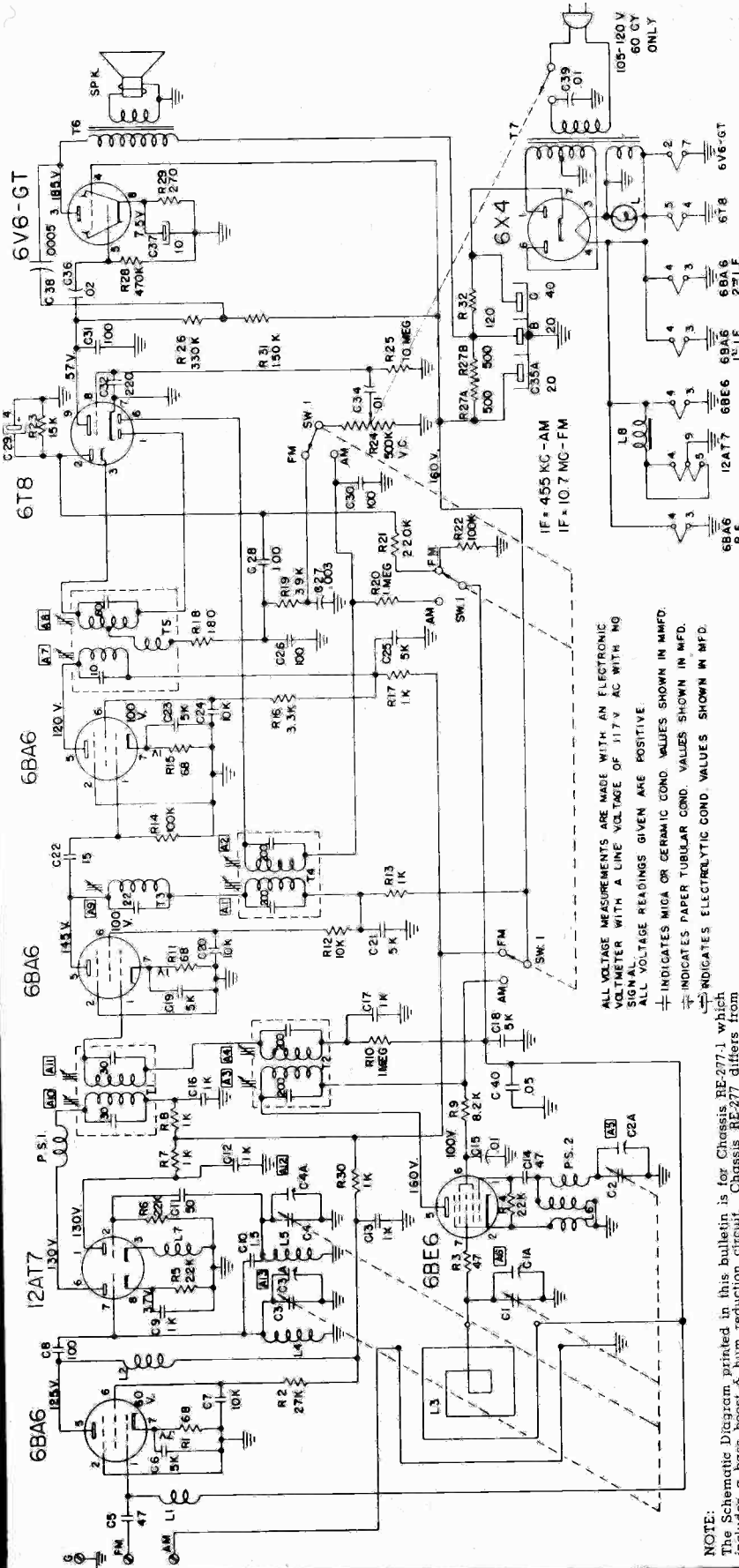
| Position of Variable | Generator Frequency | Dummy Antenna | Generator Connections | Adjust Trimmers (In order shown) | Trimmer Function |
|----------------------|---------------------|---------------|-----------------------|----------------------------------|------------------|
| Open | 455 KC | .05 MFD | Mixer Grid | A1, A2, A3, A4 | I.F. |
| Open | 1650 KC | | Test Loop | A5 | Osc. |
| 1400 KC | 1400 KC | | Test Loop | A6 | Ant. |
| 600 KC | 600 KC | | Test Loop | Check Point | |

MANUAL OF 1951 RADIO DIAGRAMS

ARVIN RADIOS, MODELS 460T AND 461T
CHASSIS RE-284, 6 TUBE AC-DC



MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS



ARVIN RADIO

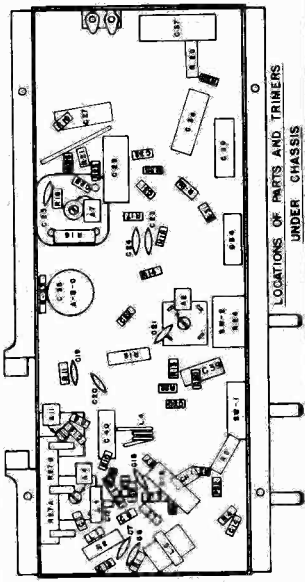
ARVIN RADIOS, MODELS 480TFM AND 481TFM
CHASSIS RE-277 & RE-277-1, 8 TUBE AC, AM-FM

NOTE:

The Schematic Diagram printed in this bulletin is for Chassis RE-277-1 which includes a bass boost & hum reduction circuit. Chassis RE-277 differs from Chassis RE-277-1 in the following respects.

1. C38 was .02 uf. 400 V_a and was connected from plate to screen of the 6V6GT tube.
2. R31, 150 K ohm 1/4 watt Resistor, was not included in the circuit and R36 connected directly to B+ 140 V.
3. R32, 120 ohm 1 watt resistor, was not included in the circuit and C33B electrolytic condenser section connected to the center tap of R27.

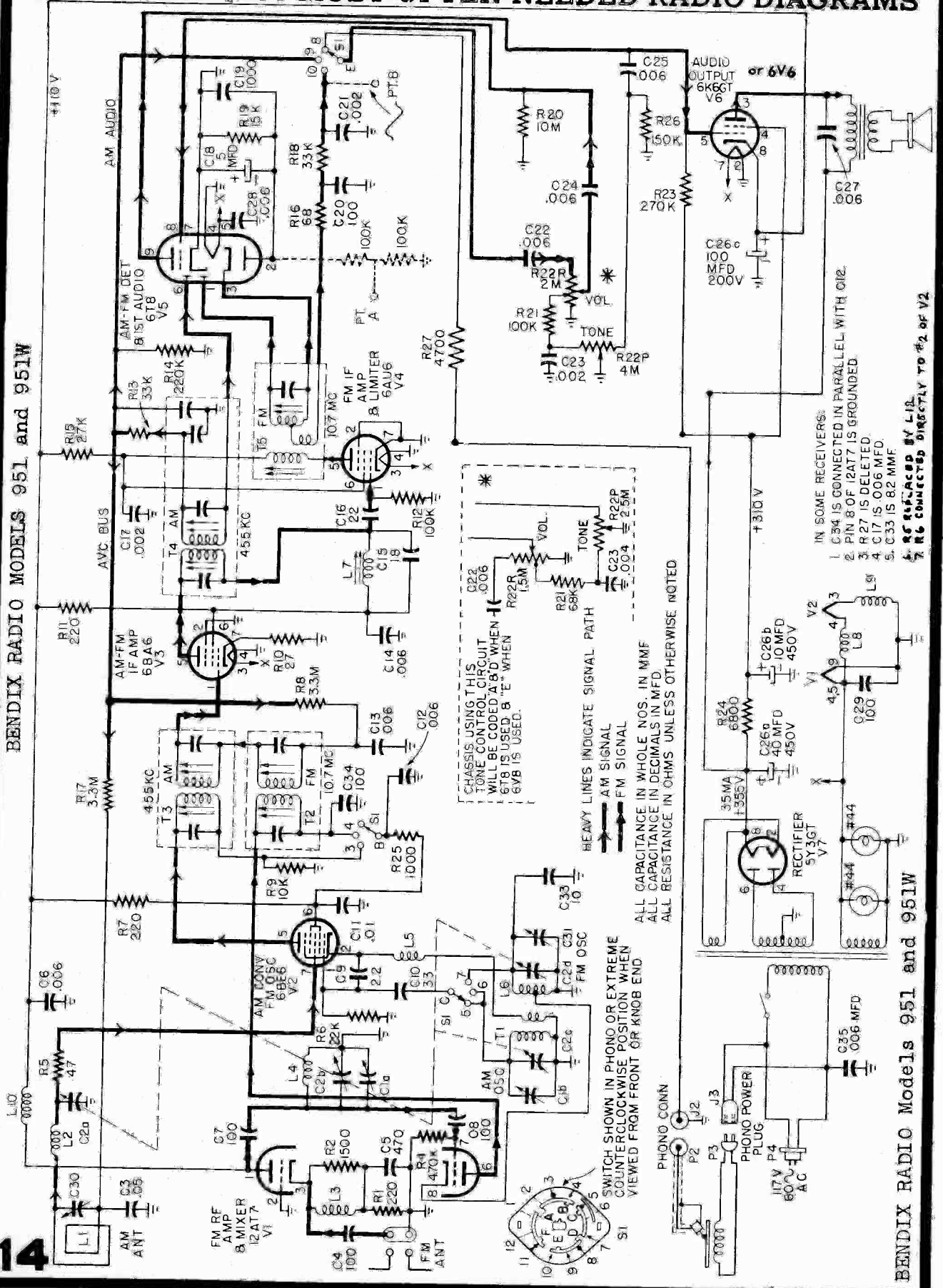
The two chassis are identified by the proper RE numbers on the Model Number label on the bottom of the cabinet.



MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

BENDIX RADIO MODELS 951 and 951W

14



CHASSIS USING THIS TONE CONTROL CIRCUIT WILL BE CODED 'A' WHEN 6T8 IS USED 'B' WHEN 6V8 IS USED.

HEAVY LINES INDICATE SIGNAL PATH

→ AM SIGNAL
→ FM SIGNAL

ALL CAPACITANCE IN WHOLE NOS. IN MMF
ALL CAPACITANCE IN DECIMALS IN MFD.
ALL RESISTANCE IN OHMS UNLESS OTHERWISE NOTED

IN SOME RECEIVERS:

1. C34 IS CONNECTED IN PARALLEL WITH C12.
2. PIN 8 OF 12AT7 IS GROUNDED.
3. R 27 IS DELETED.
4. C 17 IS .006 MFD.
5. C 33 IS 82 MMF
6. R6 CONNECTED BY LIR.
7. R6 CONNECTED DIRECTLY TO #2 OF V2.

BENDIX RADIO Models 951 and 951W

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

CLOCK - RADIO

Caphart

MODEL
TC-20

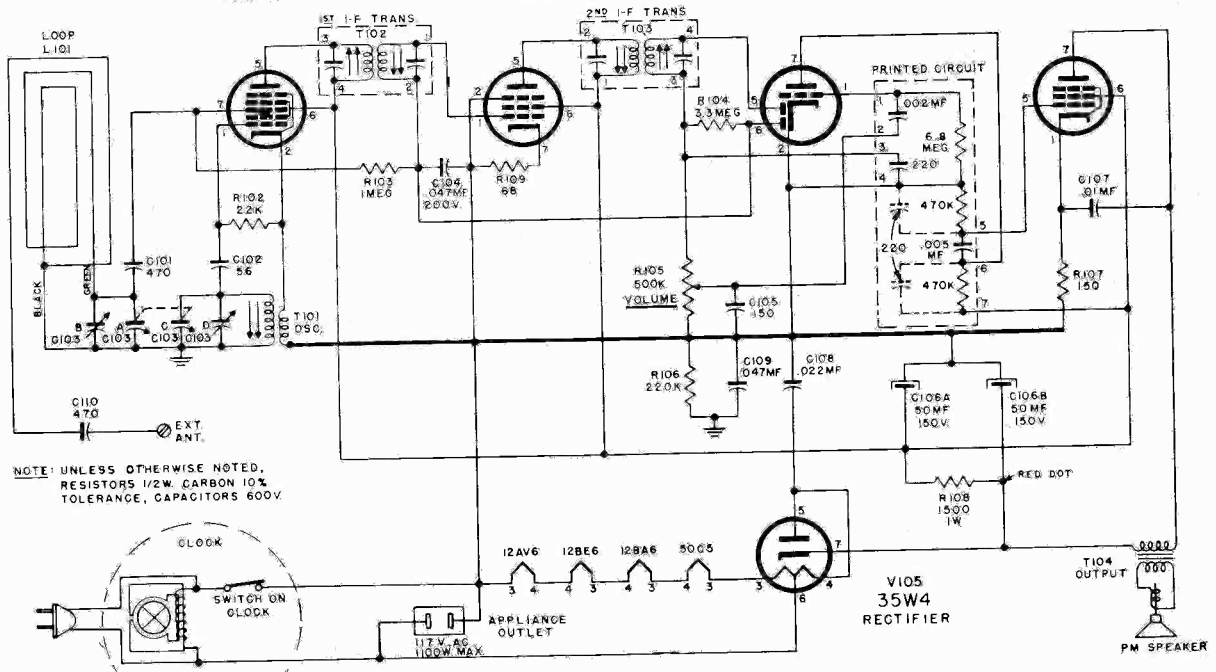
RADIO CHASSIS
C-297

V101
12BE6
OSG-CONV.

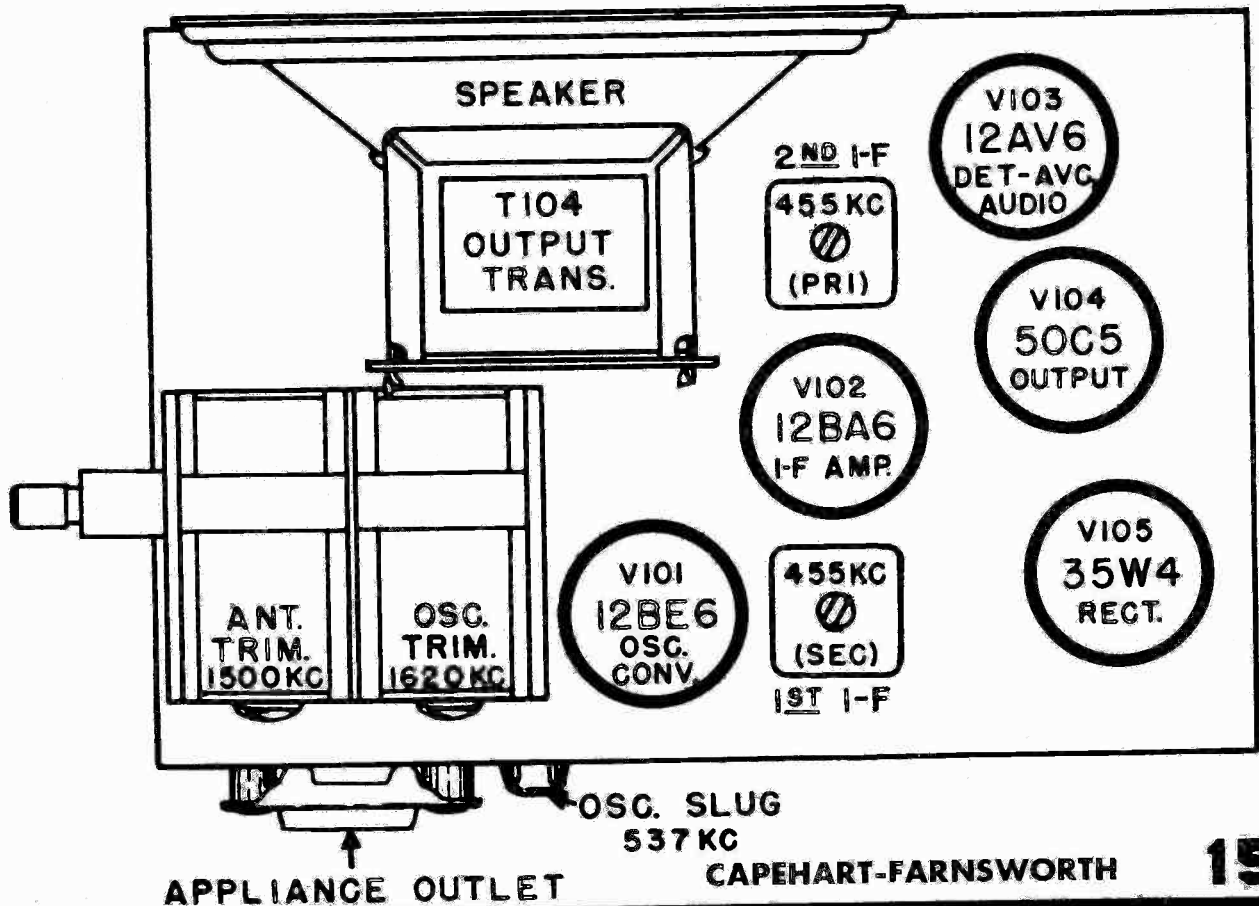
V102
12BA6
I-F AMP

V103
12AV6
DET. AVC - 1ST AUDIO

V104
50C5
OUTPUT

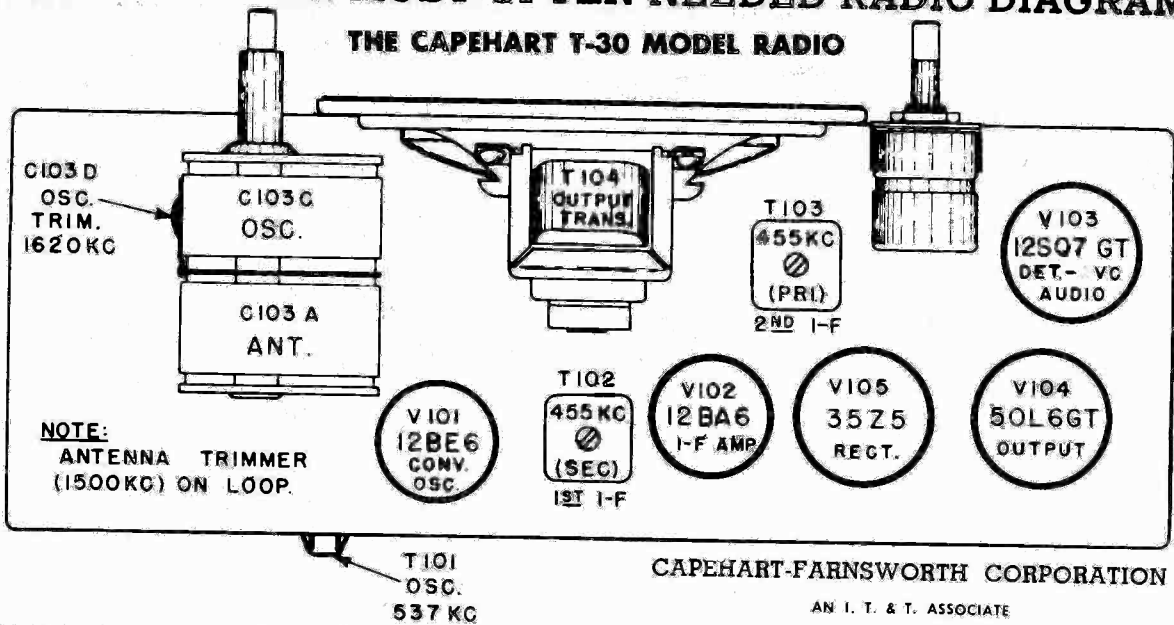


NOTE: UNLESS OTHERWISE NOTED,
RESISTORS 1/2W. CARBON 10%
TOLERANCE, CAPACITORS 600V.

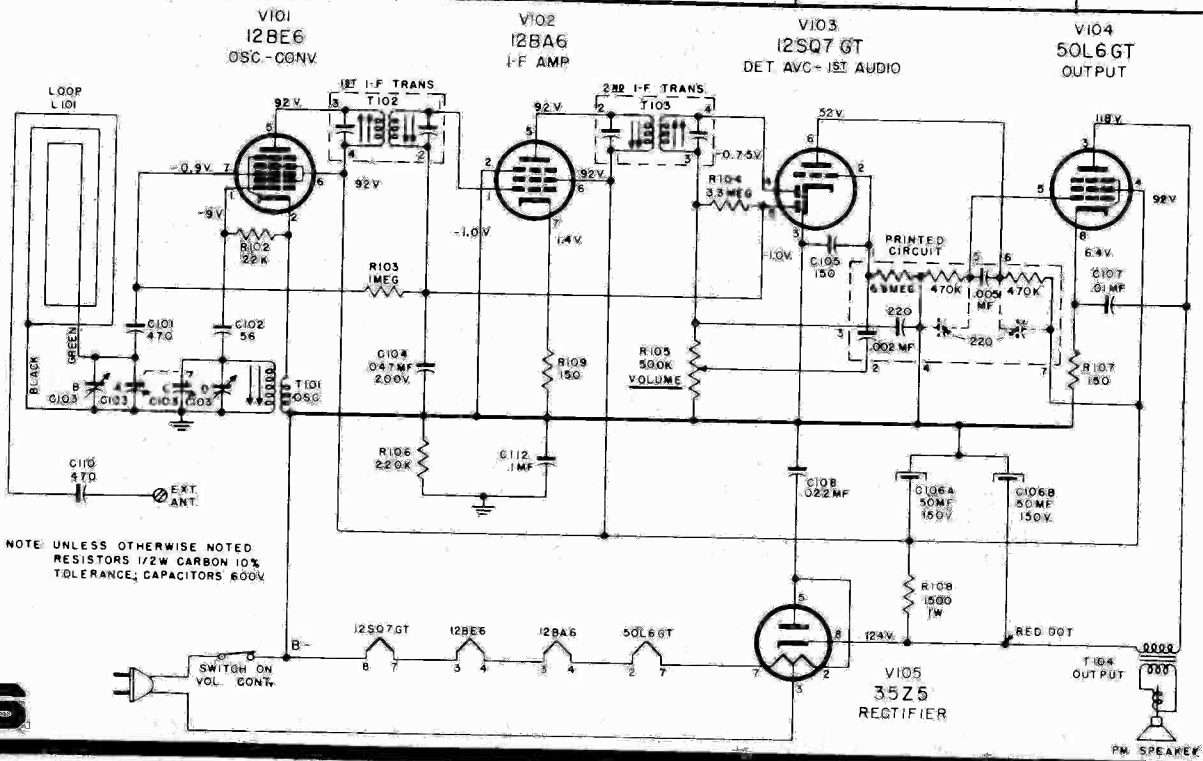


MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

THE CAPEHART T-30 MODEL RADIO



| Step | Set RF Generator at | Set Condenser gang at | Adjust | To Obtain |
|------|---------------------|--------------------------------|---------------------------------|----------------|
| 1 | 455KC | Fully Open at some quiet point | IF Slugs T103 T102 | Maximum Output |
| 2 | 1620KC | 1620KC | Osc. Trimmer C103D | Same |
| 3 | 1500 | 1500 | Ant. Trimmer C103B (on Loop) | Same |
| 4 | 537KC | 537KC | T101 Osc. Slug | Same |

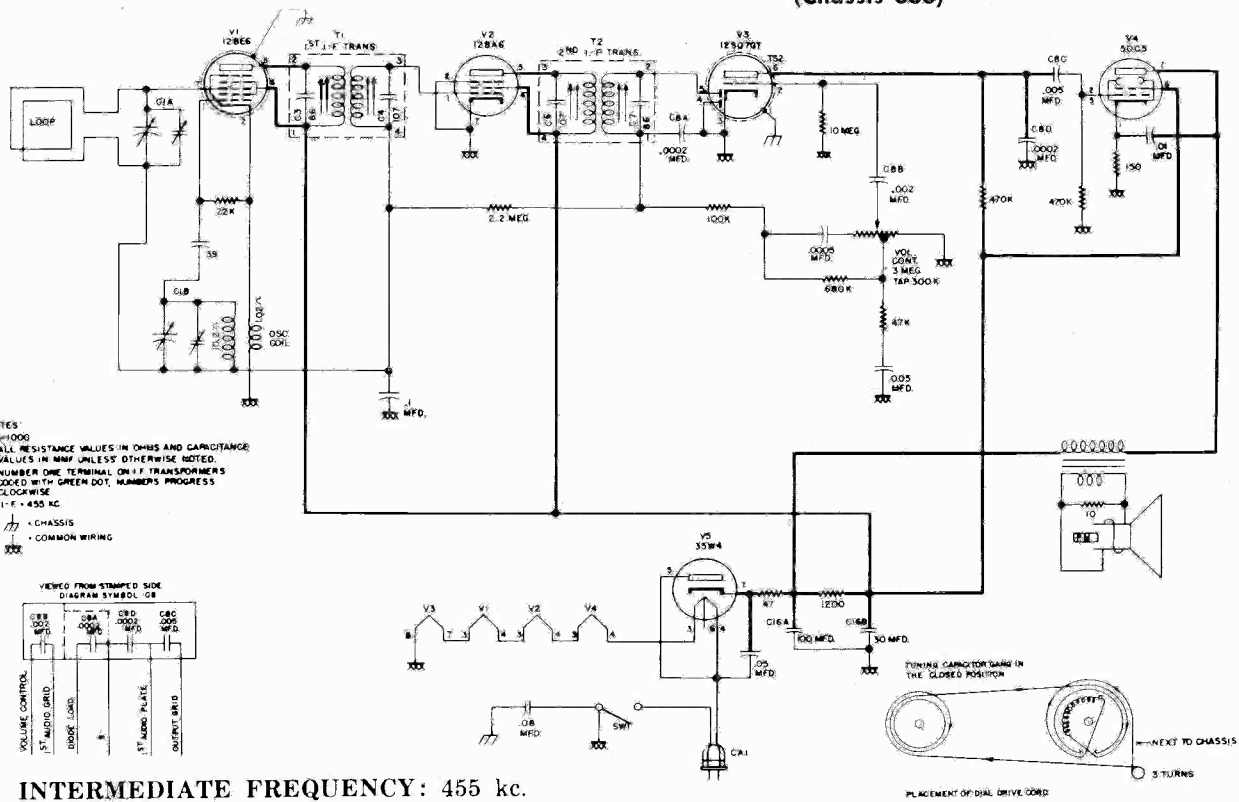


MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

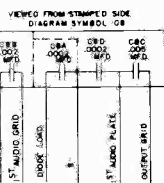
CROSLEY

REVISED MODELS: 11-100U, 11-101U, 11-102U, 11-103U
11-104U, 11-105U

(Chassis 330)



- NOTES:
1. R-1000
 2. ALL RESISTANCE VALUES IN OHMS AND CAPACITANCE VALUES IN MMF UNLESS OTHERWISE NOTED.
 3. NUMBER ONE TERMINAL ON I-F TRANSFORMERS CODED WITH GREEN DOT, NUMBER'S PROGRESS CLOCKWISE
 4. 1-F = 455 KC
 5. \perp CHASSIS
 6. \times COMMON WIRING



INTERMEDIATE FREQUENCY: 455 kc.

Models DLOBE, DLOCE, DLOGN, DLORD, DLOTN, and DLOWE, using Chassis 10D, are very similar in circuit to the description on this page. Some of these models used Chassis 10D-1 also where an electromagnetic speaker is employed -- see insert schematic at bottom of page.

The above listed models also used Chassis 301 which is similar to Chassis 330, but uses 12AV6 instead of 12SQ7 as V3. In some sets R2 is a 3.3 megohms and C5 is .05 mfd.

CONVERTER

AT 540 KC.

I-F AMPLIFIER

RECTIFIER

OUTPUT

NOTES.

1. BOTTOM VIEW OF TUBE SOCKETS.
2. MEASURE VOLTAGE WITH AN ELECTRONIC VOLTMETER FROM SOCKET LUG TO B-PIN 2 ON THE 12BA6.
3. LINE VOLTAGE 117 V 60 \pm V.
4. NC. = NO CONNECTION.
5. * = AC VOLTAGE.
6. SOCKET VOLTAGE TOLERANCE \pm 10%.

RECTIFIER B.E.M. SPEAKER SCHEMATIC (10-D) CHASSIS

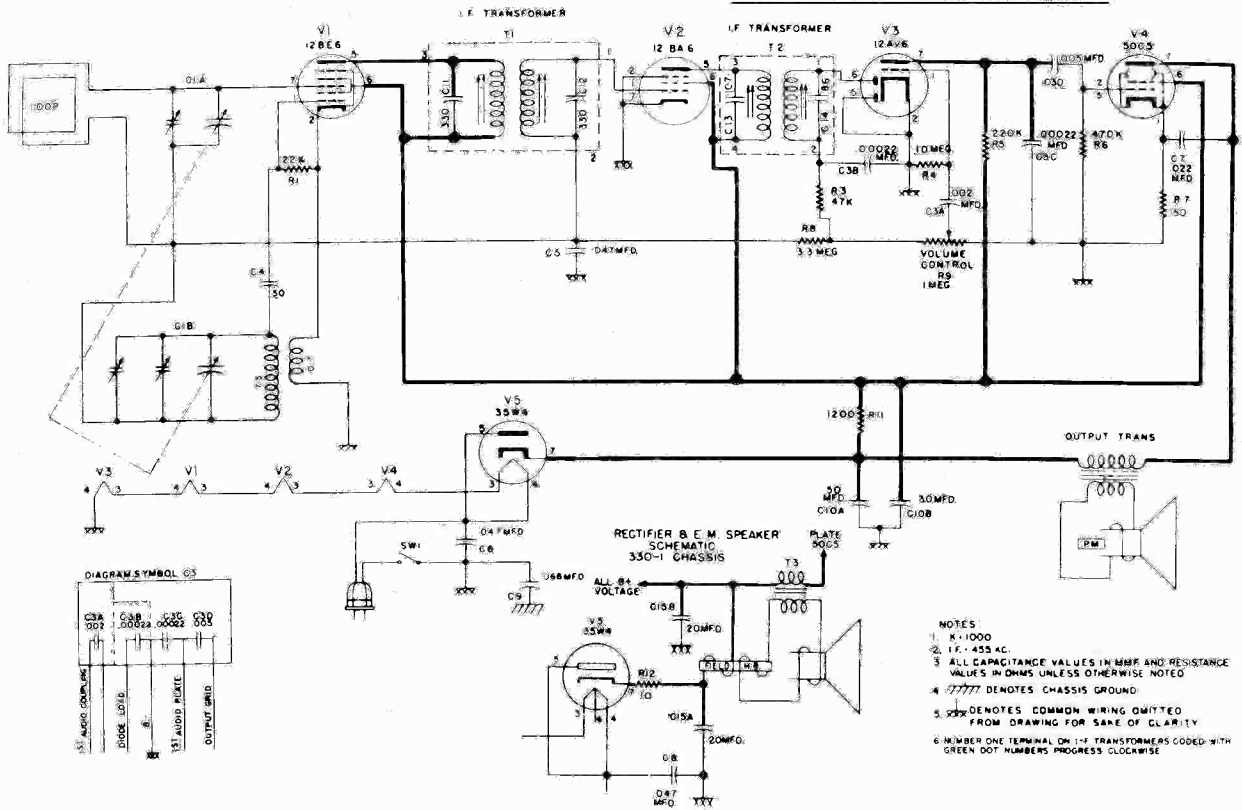
DET-AVC-I-F ST. AUDIO AMPL.

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

CROSLEY

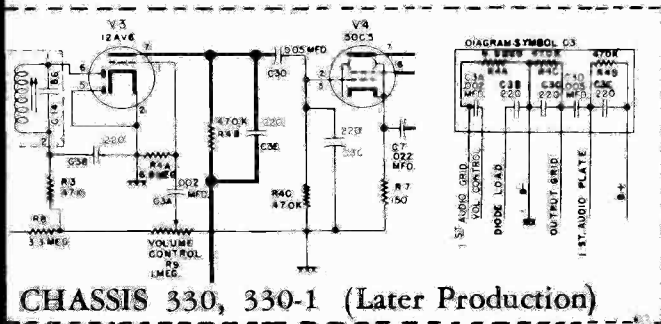
MODELS 11-114U, 11-115U, 11-118U,
11-117U, 11-118U, 11-119U

** (Chassis 330, 330-1)

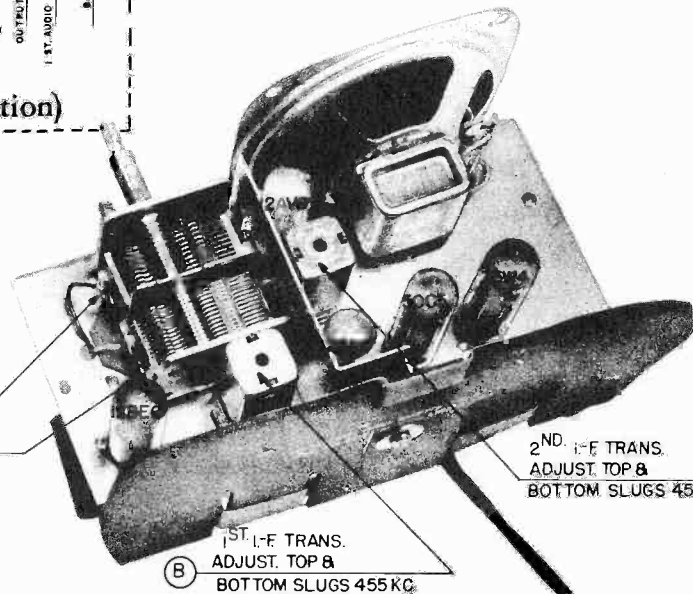


SCHEMATIC DIAGRAM: CHASSIS 330, 330-1 (Early Production Sets)

** Chassis 330 is equipped with a P. M. Speaker Chassis 330-1 is equipped with an E. M. Speaker



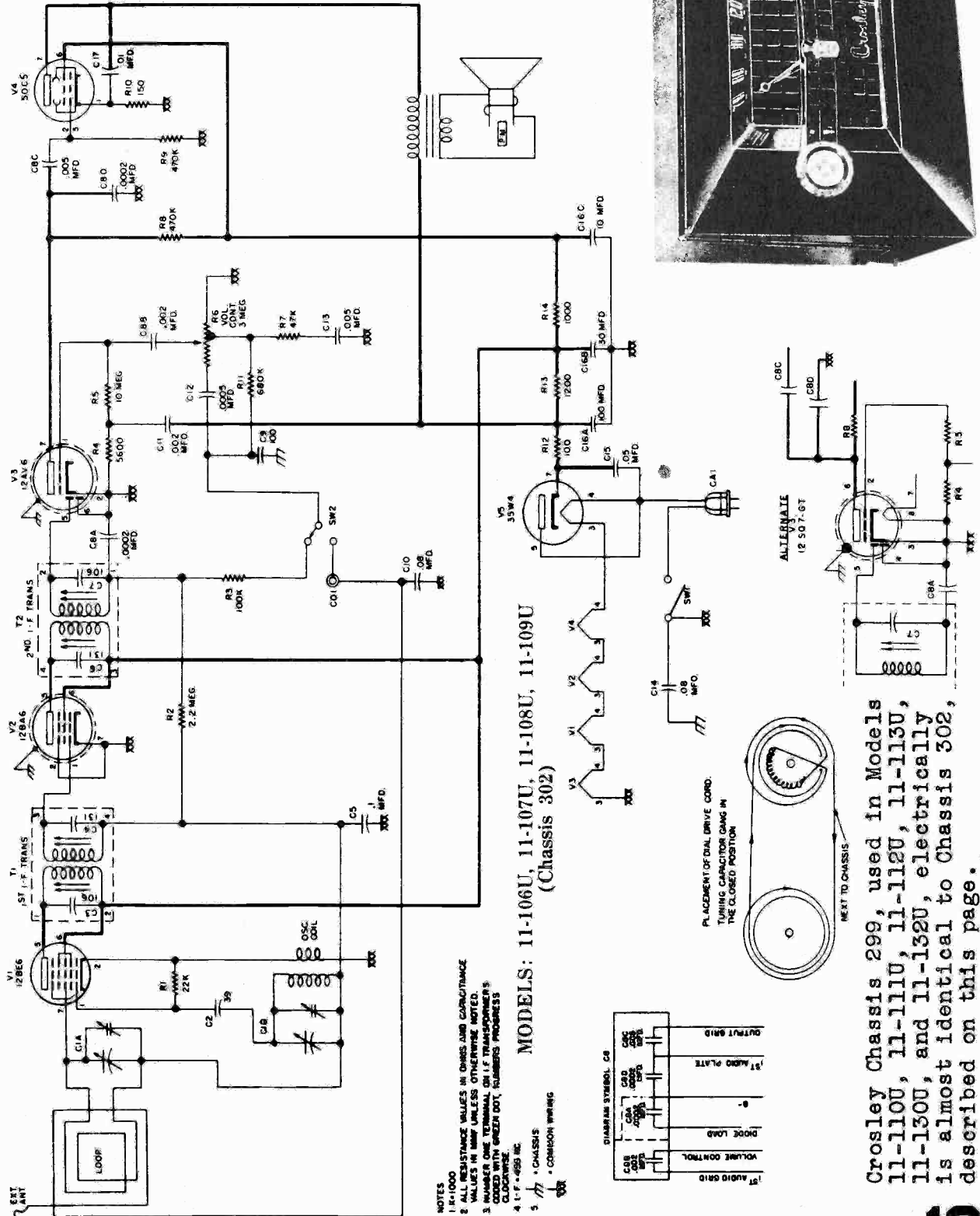
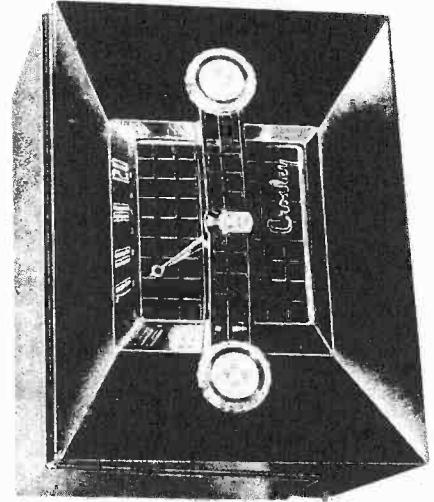
CHASSIS, TOP VIEW



MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

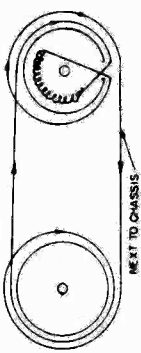
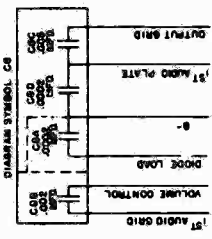
CROSLLEY

MODELS: 11-106U, 11-107U, 11-108U, 11-109U
(Chassis 302)



MODELS: 11-106U, 11-107U, 11-108U, 11-109U
(Chassis 302)

- NOTES
1. R=1000
 2. ALL RESISTANCE VALUES IN OHMS AND CAPACITANCE VALUES IN MFD UNLESS OTHERWISE NOTED.
 3. NUMBER ONE TERMINAL ON I.F. TRANSFORMERS CODED WITH UNDER DOT, NUMBERS PROGRESS clockwise.
 4. I.F. = 455 KC.
 5. * CHASSIS
 - COMMON WIRING

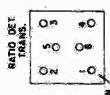
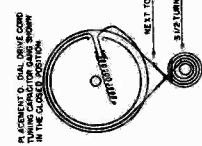
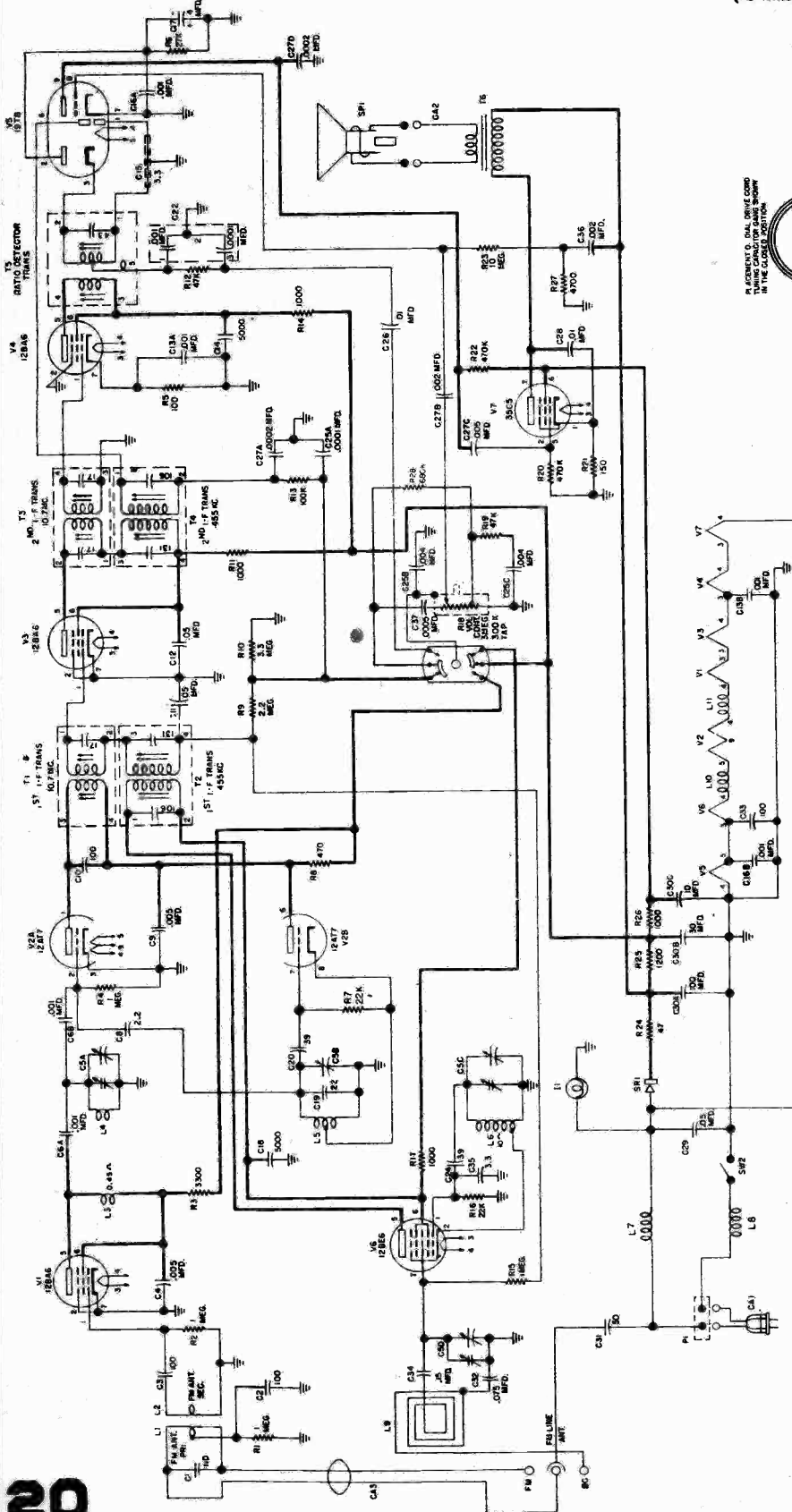


Crosley Chassis 299, used in Models 11-110U, 11-111U, 11-112U, 11-113U, 11-114U, 11-115U, 11-116U, 11-117U, 11-118U, 11-119U, 11-120U, 11-121U, 11-122U, 11-123U, 11-124U, 11-125U, 11-126U, 11-127U, 11-128U, 11-129U, 11-130U, and 11-131U, electrically is almost identical to Chassis 302, described on this page.

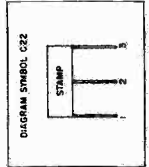
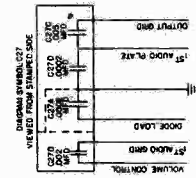
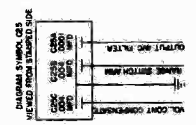
MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

CROSLEY

MODELS: 11-126U, 11-127U, 11-128U, 11-129U
(Chassis 312)



- NOTES:
1. X1000
 2. 1/4-455 KC. AS
 3. ALL CAPACITANCE VALUES IN MFD. AND ALL RESISTANCE VALUES IN OHMS UNLESS OTHERWISE SPECIFIED.
 4. COUNTER CLOCKWISE POSITION AS SHOWN.
 5. NUMBER 1 TERMINAL ON I.F. TRANSFORMERS CODED BY GREEN DOT NUMBERS PROGRESS CLOCKWISE, EXCEPT AS NOTED.



TYPE: Seven-tube, two-band, superheterodyne.
FREQUENCY RANGE: Standard Broadcast Band; 540 to 1620 kc.
Frequency Modulation Band; 88 to 108 megacycles.
INTERMEDIATE FREQUENCY: Standard Broadcast Band; 455 kc.
Frequency Modulation Band; 10.7 mc.
FM ANTENNA INPUT IMPEDANCE: 75 ohms balanced.
POWER SUPPLY: a.c.—d.c.

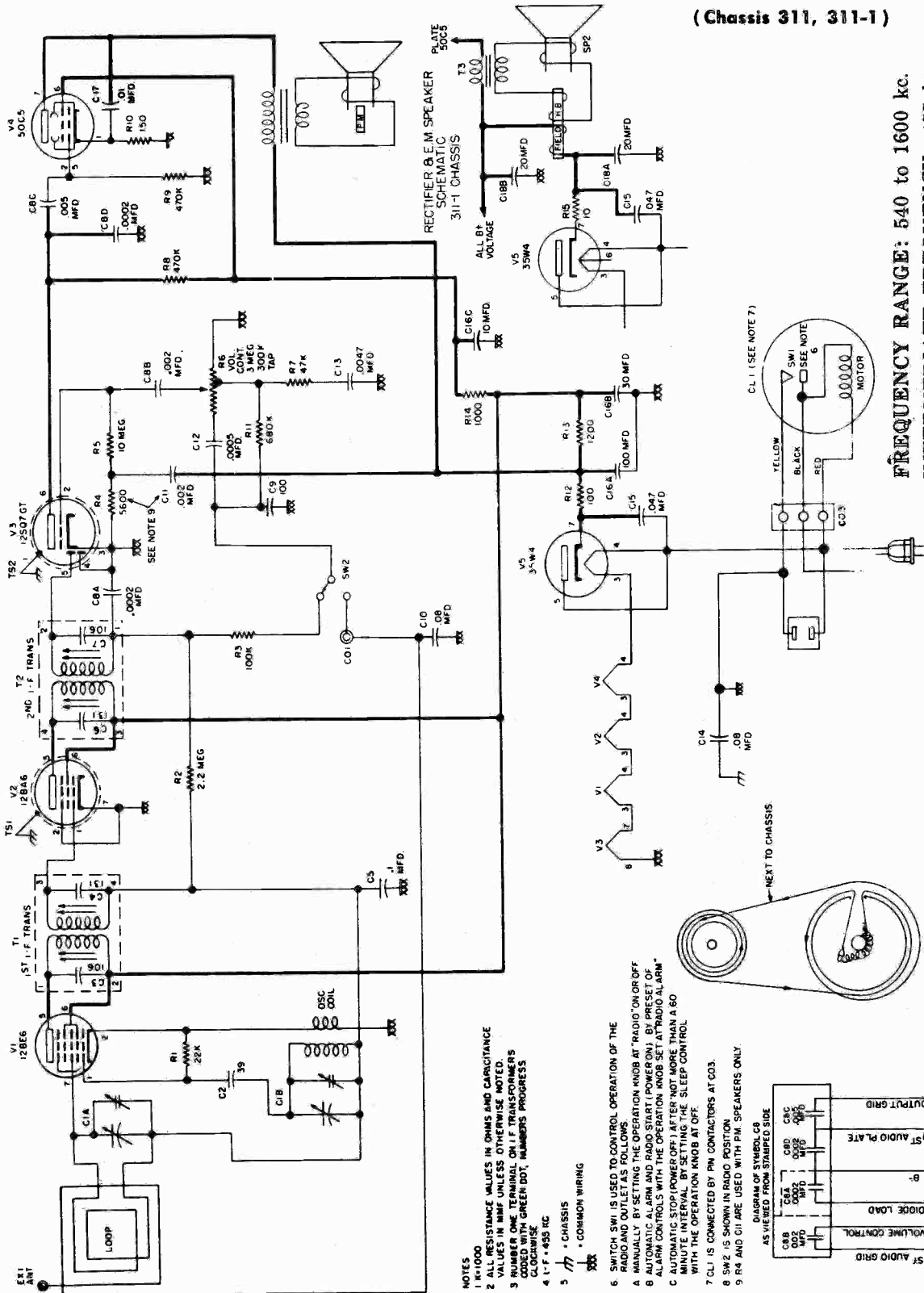
MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

CROSLEY

MODELS: 11-120U, 11-121U, 11-122U, 11-123U
11-124U, 11-125U

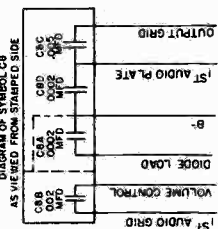
Models: D-25 WE, D-25 TN, D-25 CE,
D-25 MN, D-25 BE, D-25 GN

(Chassis 311, 311-1)



FREQUENCY RANGE: 540 to 1600 kc.
INTERMEDIATE FREQUENCY: 455 kc.
POWER SUPPLY: 60 cycle, a.c. only.
VOLTAGE RATING: 105-125 volts.

- NOTES**
- 1 M=1000
 - 2 ALL RESISTANCE VALUES IN OHMS AND CAPACITANCE VALUES IN MMF UNLESS OTHERWISE NOTED.
 - 3 NUMBER ONE TERMINAL ONLY IF TRANSFORMER'S COILS ARE GREEN, RED, BLUE, OR PURPLE.
 - 4 1" F = 455 KC
 - 5 = CHASSIS
 - 6 SWITCH SW1 IS USED TO CONTROL OPERATION OF THE RADIO AND OUTLETS AS FOLLOWS:
A MANUALLY BY SETTING THE OPERATION KNOB AT "RADIO" ON OR OFF
B AUTOMATIC ALARM AND RADIO (START POWER ON) BY PRESET OF ALARM CONTROLS WITH THE OPERATION KNOB SET AT "RADIO ALARM"
C AUTOMATIC STOP (POWER OFF) AFTER "NOT MORE THAN A 60 MINUTE INTERVAL" BY SETTING THE SLEEP CONTROL WITH THE OPERATION KNOB AT OFF.
 - 7 CL1 IS CONNECTED BY PIN CONTACTORS AT C03.
 - 8 SW2 IS SHOWN IN RADIO POSITION
 - 9 R4 AND C14 ARE USED WITH P.M. SPEAKERS ONLY

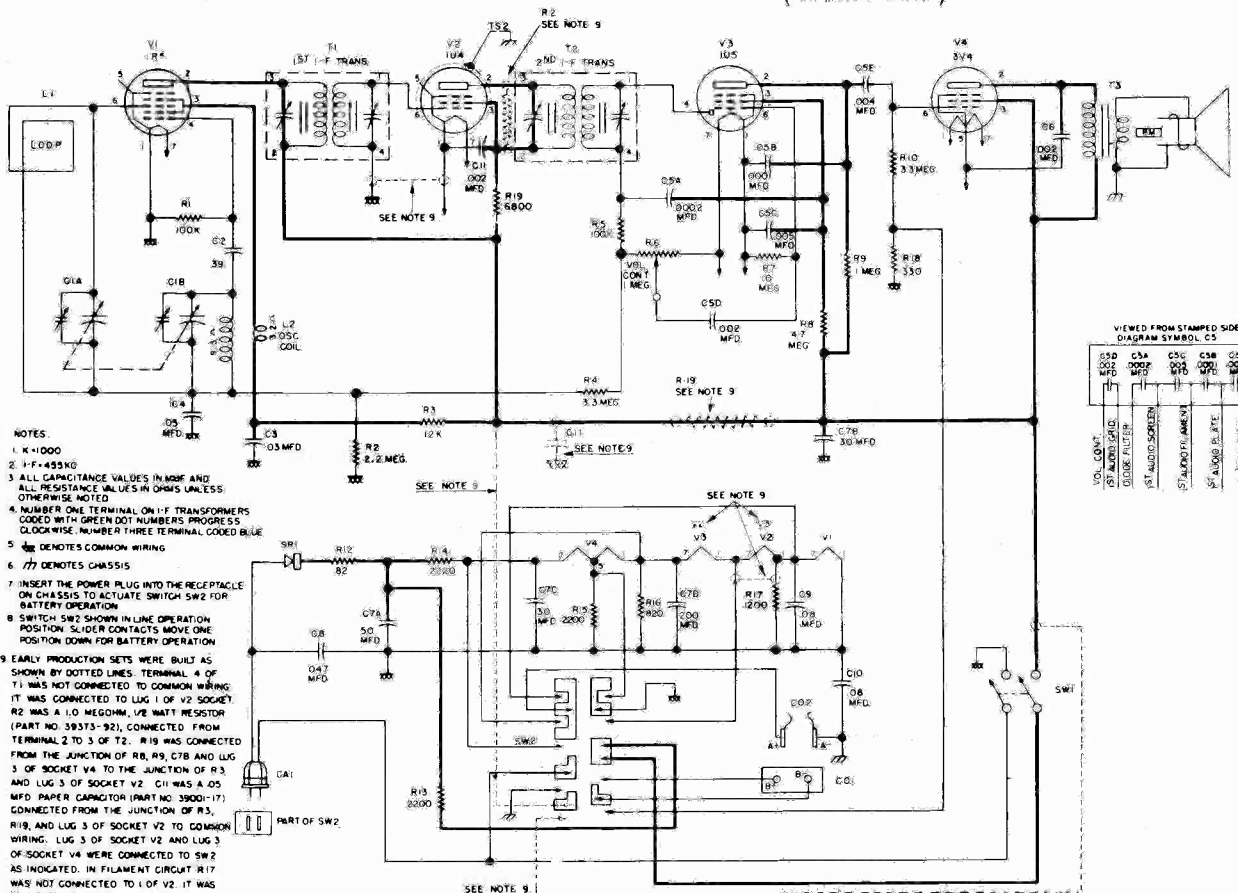


PLACEMENT OF DIAL DRIVE COORDINATING CAPACITOR IN THE CLOSED POSITION.

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

CROSLLEY

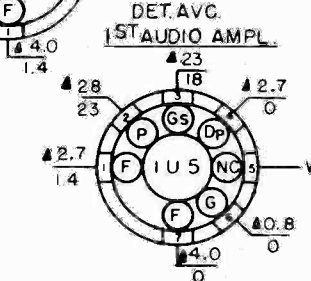
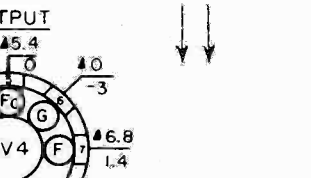
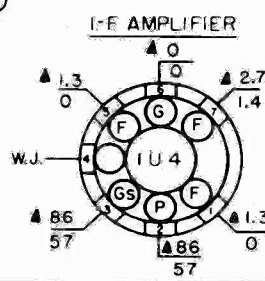
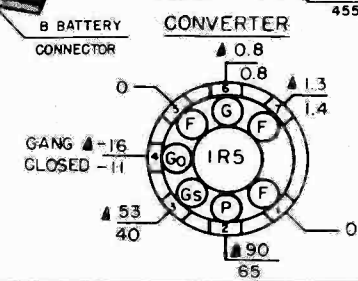
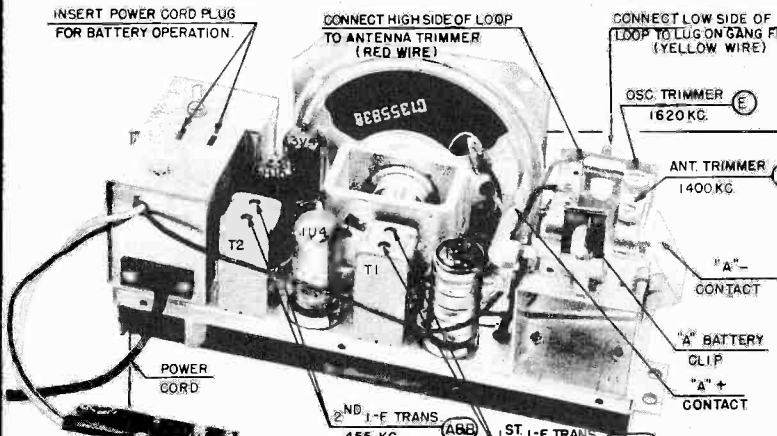
MODELS 11-301U, 11-302U, 11-303U, 11-304U, 11-305U
(Chassis 303)



- NOTES:**
- 1 K = 1000
 - 1 F = 455 KC
 - ALL CAPACITANCE VALUES IN MFD AND ALL RESISTANCE VALUES IN OHMS UNLESS OTHERWISE NOTED
 - NUMBER ONE TERMINAL ON I-F TRANSFORMERS CODED WITH GREEN DOT NUMBERS PROGRESS CLOCKWISE, NUMBER THREE TERMINAL CODED BLUE
 - 5 DENOTES COMMON WIRING
 - 777 DENOTES CHASSIS
 - INSERT THE POWER PLUG INTO THE RECEPTACLE ON CHASSIS TO ACTIVATE SWITCH SW2 FOR BATTERY OPERATION
 - SWITCH SW2 SHOWN IN LINE OPERATION POSITION. SLIDER CONTACTS MOVE ONE POSITION DOWN FOR BATTERY OPERATION
 - EARLY PRODUCTION SETS WERE BUILT AS SHOWN BY DOTTED LINES. TERMINAL 4 OF T1 WAS NOT CONNECTED TO COMMON WIRING. IT WAS CONNECTED TO LUG 1 OF V2 SOCKET. R2 WAS A 1.0 MEG OHM, 1/2 WATT RESISTOR (PART NO. 39373-92), CONNECTED FROM TERMINAL 2 TO 3 OF T2. R19 WAS CONNECTED FROM THE JUNCTION OF R8, R9, C7B AND LUG 3 OF SOCKET V4 TO THE JUNCTION OF R3 AND LUG 3 OF SOCKET V2. C11 WAS A .05 MFD PAPER CAPACITOR (PART NO. 39001-17) CONNECTED FROM THE JUNCTION OF R3, R19, AND LUG 3 OF SOCKET V2 TO COMMON WIRING. LUG 3 OF SOCKET V2 AND LUG 3 OF SOCKET V4 WERE CONNECTED TO SW2 AS INDICATED. IN FILAMENT CIRCUIT R17 WAS NOT CONNECTED TO I OF V2. IT WAS CONNECTED TO 7. V2 WAS V3 AND V3 WAS V2. V1 ALSO HAD A SHIELD (PART NO. W14784), THE SAME AS V2. REVISING AN EARLY PRODUCTION SET TO A LATER PRODUCTION SET, AS SHOWN BY THE SOLID LINES IN SCHEMATIC WIRING DIAGRAM, IMPROVES ITS SENSITIVITY AND STABILITY.

INTERMEDIATE FREQUENCY: 455 kc.

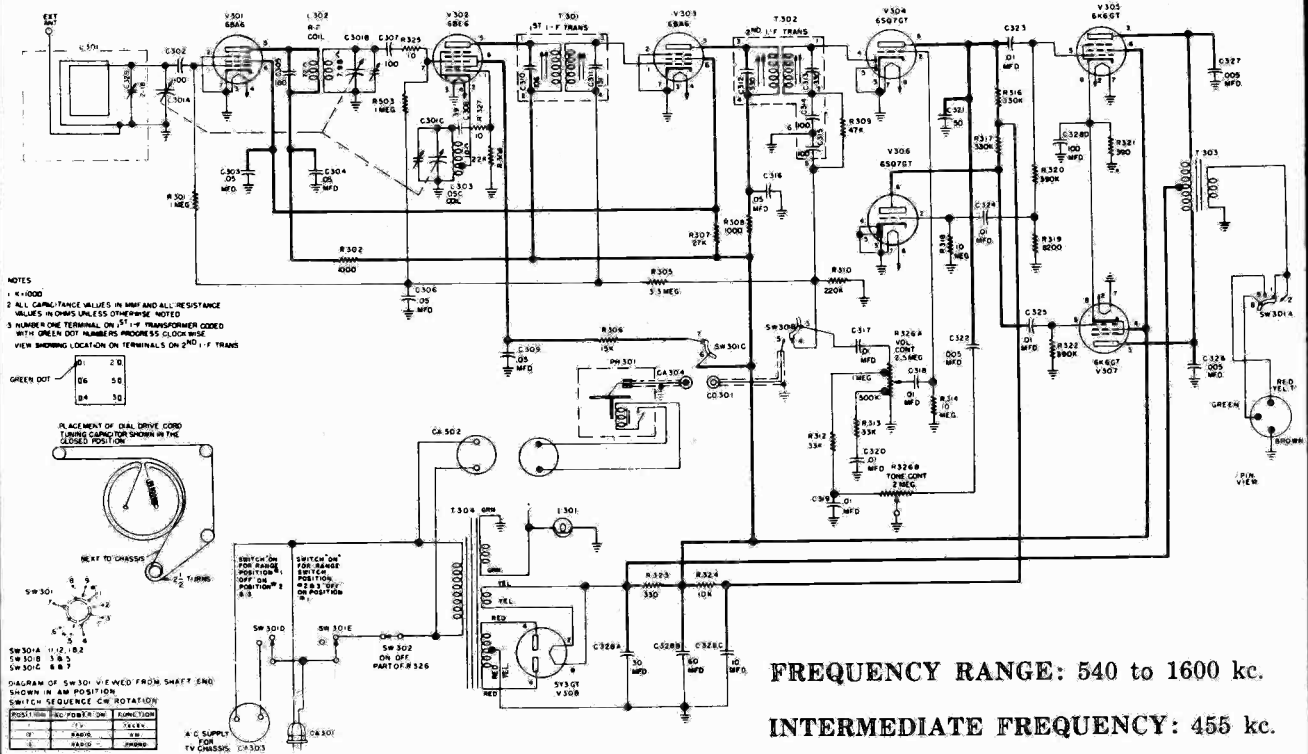
BOTTOM VIEW OF TUBE SOCKETS.
VOLTAGES MEASURED WITH AN ELECTRONIC VOLTMETER FROM SOCKET LUG TO (B-)
W. J. = WIRING JUNCTION
N.C. = NO CONNECTION
▲ = VOLTAGES MEASURED WITH RADIO PLUGGED INTO 117 V. 60 CYCLE LINE.
ALL OTHER VOLTAGES MEASURED IN BATTERY POSITION WITH "A" = 1.45 VOLTS, "B" = 67 1/2 VOLTS.



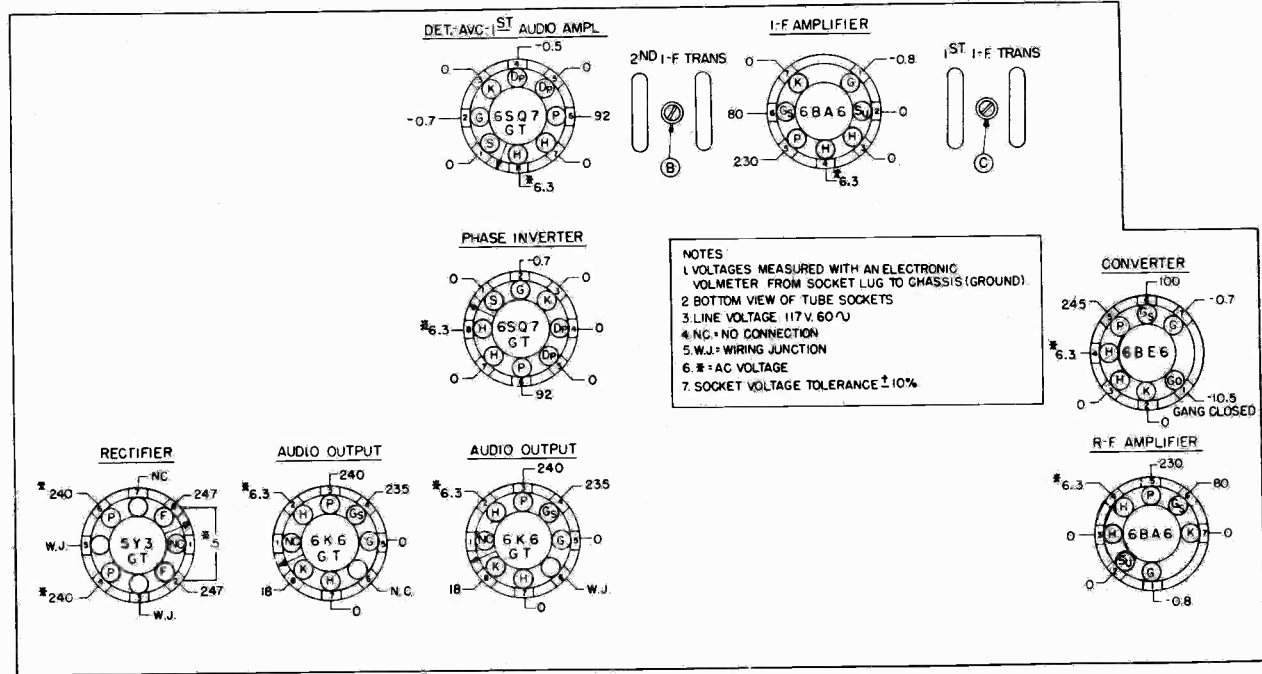
MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

CROSLLEY

RADIO CHASSIS 332—PHONO UNIT V-950
USED IN MODELS 11-444MU, 11-474BU

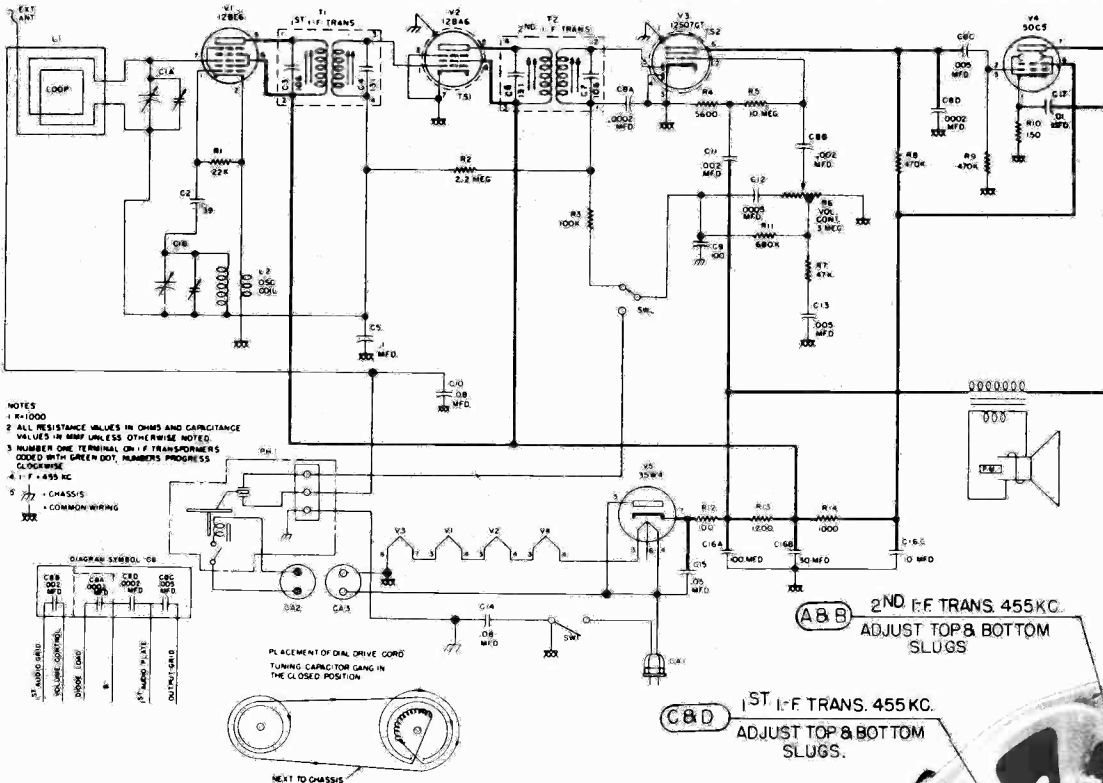


FREQUENCY RANGE: 540 to 1600 kc.
INTERMEDIATE FREQUENCY: 455 kc.



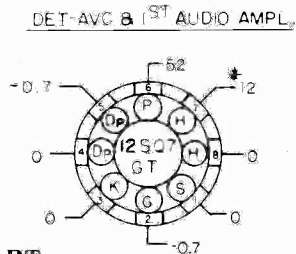
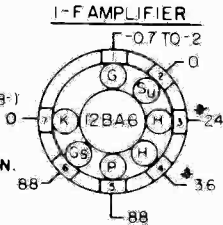
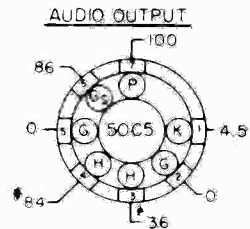
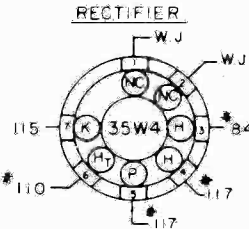
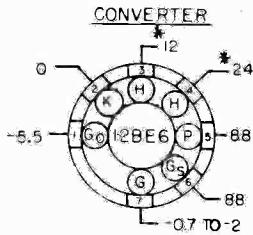
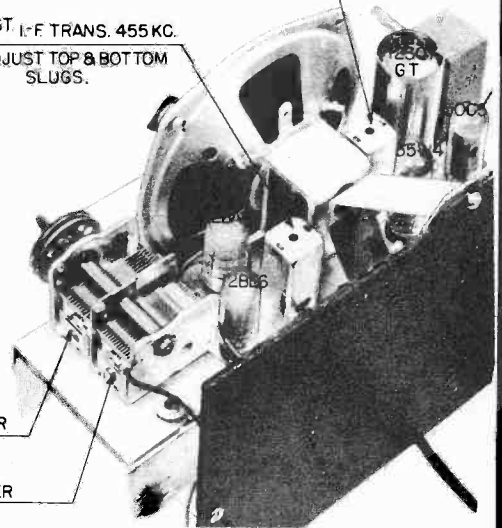
SOCKET VOLTAGE CHART

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS



= CROSLEY =

MODELS: 11-550MU, 11-560BU
 (Chassis 337)

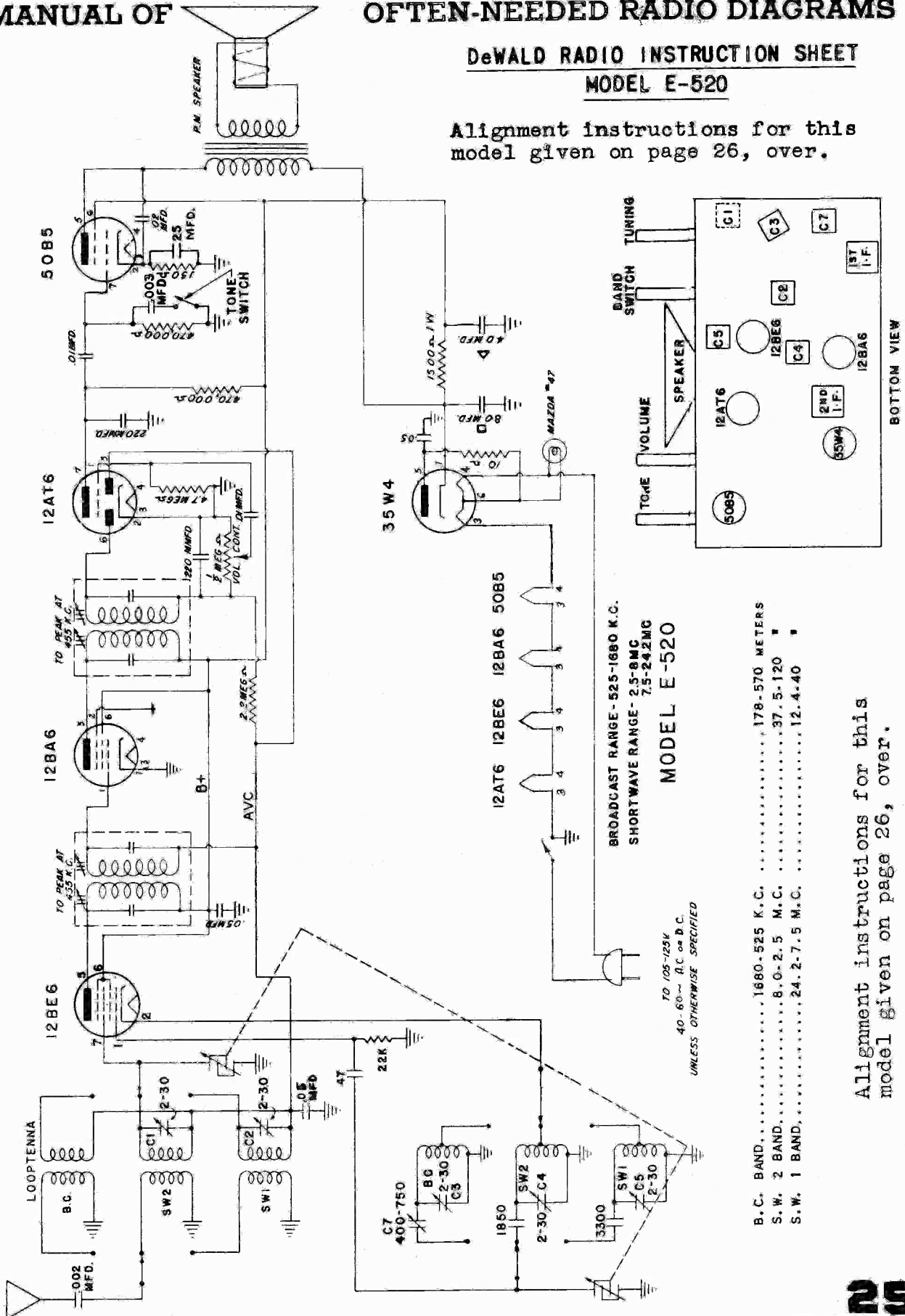


- NOTES:
 1 BOTTOM VIEW OF TUBE SOCKETS.
 2 VOLTAGES MEASURED WITH AN ELECTRONIC VOLTMETER FROM SOCKET LUG TO B- (PIN 7 OF 12BA6)
 3 MEASURED WITH THE VOLUME CONTROL AT MINIMUM & NO SIGNAL INTO THE LOOP, TUNING GANG CLOSED.
 4 W J = WIRING JUNCTION.
 * = AC VOLTAGES NC = NO CONNECTION.
 5. LINE VOLTAGE = 117 V, 60~AC.
 6. SOCKET VOLTAGE TOLERANCE ± 10%

SOCKET VOLTAGE CHART

DeWALD RADIO INSTRUCTION SHEET
MODEL E-520

Alignment instructions for this model given on page 26, over.

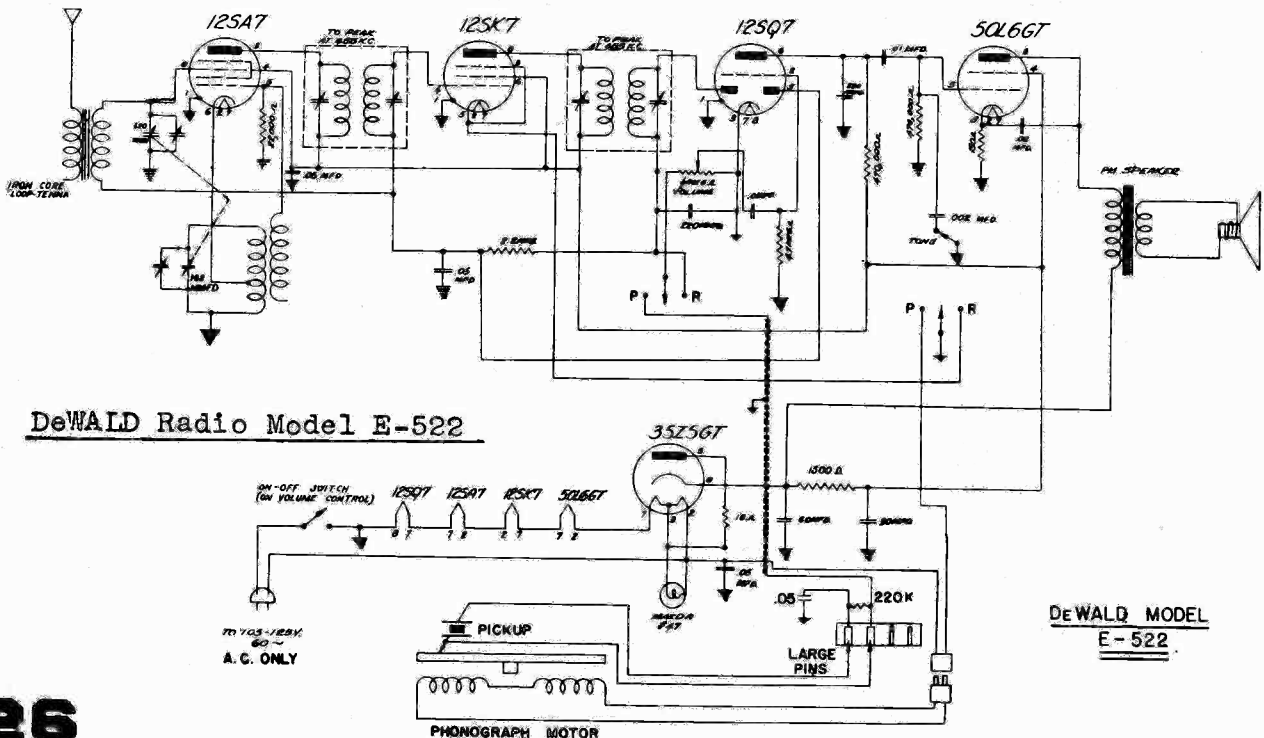


Alignment instructions for this model given on page 26, over.

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Alignment Instructions for DeWald Radio Model E-520 (Circuit Diagram on page 25)

To calibrate Model E-520 receiver, connect the output of a signal generator in series with a 200 mmfd. fixed condenser to the flexible antenna lead attached to the loop. Connect the low side of the generator through a 0.1 mfd. condenser to the receiver chassis. The wave band switch should be in the broadcast position. Adjust the generator to 455 KC. and adjust both I.F. transformers (both top and bottom) for maximum signal output. Open the variable condenser for minimum capacity. Turn the wave band switch to short wave #1 position. Set generator at 24.2 MC. Peak the short wave #1 oscillator trimmer screw (C5) for maximum signal. Next set the generator at 23 MC. and tune in this signal on receiver. Adjust short wave #1 R.F. trimmer screw (C2) for maximum signal. The low frequency end of the dial is automatically adjusted by a fixed padder condenser. Next turn band switch to short wave #2 position. Rotate drive shaft until variable condenser of the receiver is open all the way. Adjust generator to 8 MC. Adjust the short wave #2 oscillator trimmer screw (C4) until maximum signal is secured. Next set generator at 7 MC. Tune in this signal on receiver, and adjust short wave #2 R.F. trimmer screw (C1) for maximum signal strength. The low frequency end of the dial is automatically adjusted by a fixed padder condenser. Next turn band switch to broadcast position. Adjust generator to produce 1500 KC. and tune in this signal on receiver. Adjust the broadcast oscillator trimmer screw (C3) for maximum signal. To adjust the low end of the dial, set the generator and receiver at 600 KC. Peak the broadcast padder (C7) for maximum output. The variable condenser should be rocked slightly during this operation. Keep the signal generator output as low as possible when making all these adjustments.

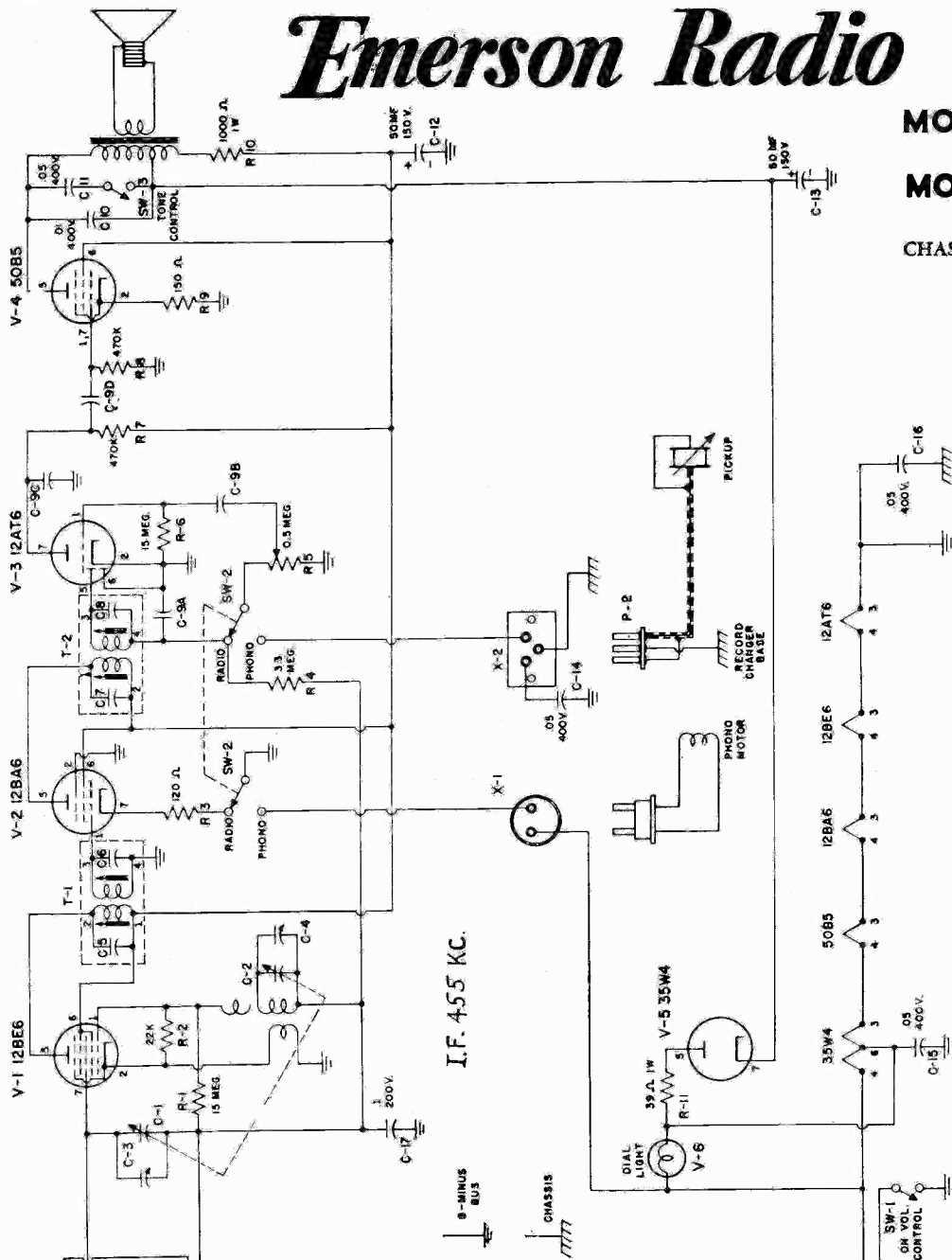


Emerson Radio

MODEL 634B

MODEL 672B

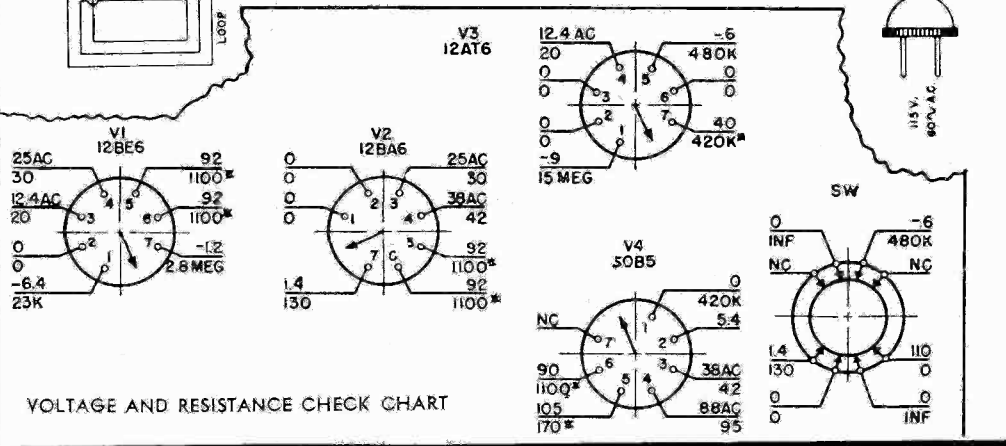
CHASSIS MODEL 120097-B



I.F. 455 KC.

CONDITIONS FOR VOLTAGE AND RESISTANCE READINGS

Voltages indicated are positive d.c., resistances are in ohms, unless otherwise indicated. Measurements made with voltohmmyst or equivalent. Line voltage maintained at 120 volts a.c. for voltage measurements. Socket connections are shown as bottom views, with measurements from pin to common negative. Volume control at maximum; radio-phonograph switch in radio position; no signal applied for Model 634B measurements. Nominal tolerance on component values makes possible a variation of ± 15% in voltage and resistance readings. On the diagrams, upper values are voltage; lower values are resistance. NC denotes no connection, K is kilohms, MEG megohms, INF. is infinity. Resistances marked * are measured to pin 7 of rectifier (B+).



VOLTAGE AND RESISTANCE CHECK CHART

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

EMERSON RADIO & PHONOGRAPH CORPORATION

MODEL: 625

CHASSIS MODEL: 120105B

TYPE: Automatic record-changer phonograph

TYPE OF TUBES:

- 1—12SQ7 audio amplifier
- 1—50L6GT power output
- 1—35Z5GT rectifier

POWER SUPPLY: 60 cycle a.c. only

VOLTAGE RATING: 105-125 volts

POWER CONSUMPTION: 30 watts

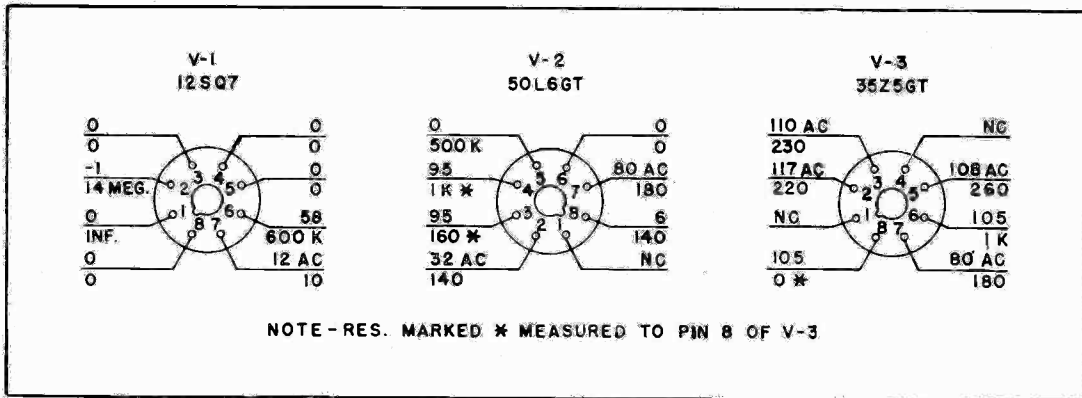
CURRENT DRAIN: 0.25 amp. at 117 volts a.c.

DISASSEMBLY INSTRUCTIONS

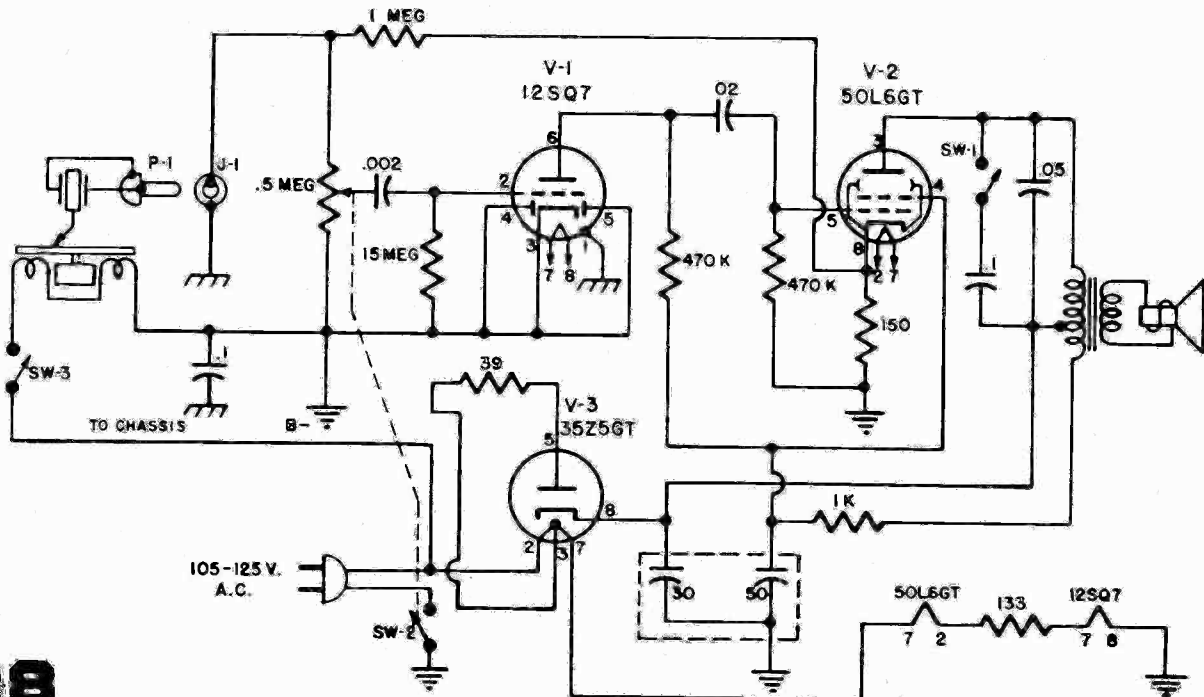
1. Remove two push-on knobs at front of cabinet.
2. Disconnect phono-motor leads by unscrewing wirenuts.
3. Remove phono pickup plug.
4. Unscrew two front cabinet feet and two chassis bolts at sides of cabinet. Lift out chassis.
5. Remove two base plate screws at center of chassis.

CONDITIONS FOR VOLTAGE AND RESISTANCE READINGS

1. Voltages indicated are positive d.c., resistances are in ohms, unless otherwise indicated.
2. Measurements made with volt-ohmyst or equivalent.
3. Line voltage maintained at 117 volts a.c. for voltage measurements.
4. Socket connections are shown as bottom views, with measurements from pin to common negative.
5. Volume control at maximum, for voltage measurements.
6. Nominal tolerance on component values makes possible a variation of $\pm 15\%$ in voltage and resistance readings.
7. On the diagram, upper values are voltage and lower values are resistance. NC denotes no connection, K is kilohms, MEG is megohms, INF is infinity. Resistances marked * are measured to pin 8 of rectifier (B+).



BOTTOM VIEW - CHASSIS 120105B



MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

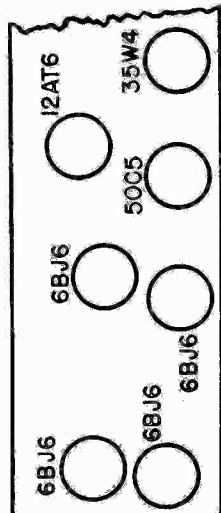
Emerson Radio

MODEL: 641B

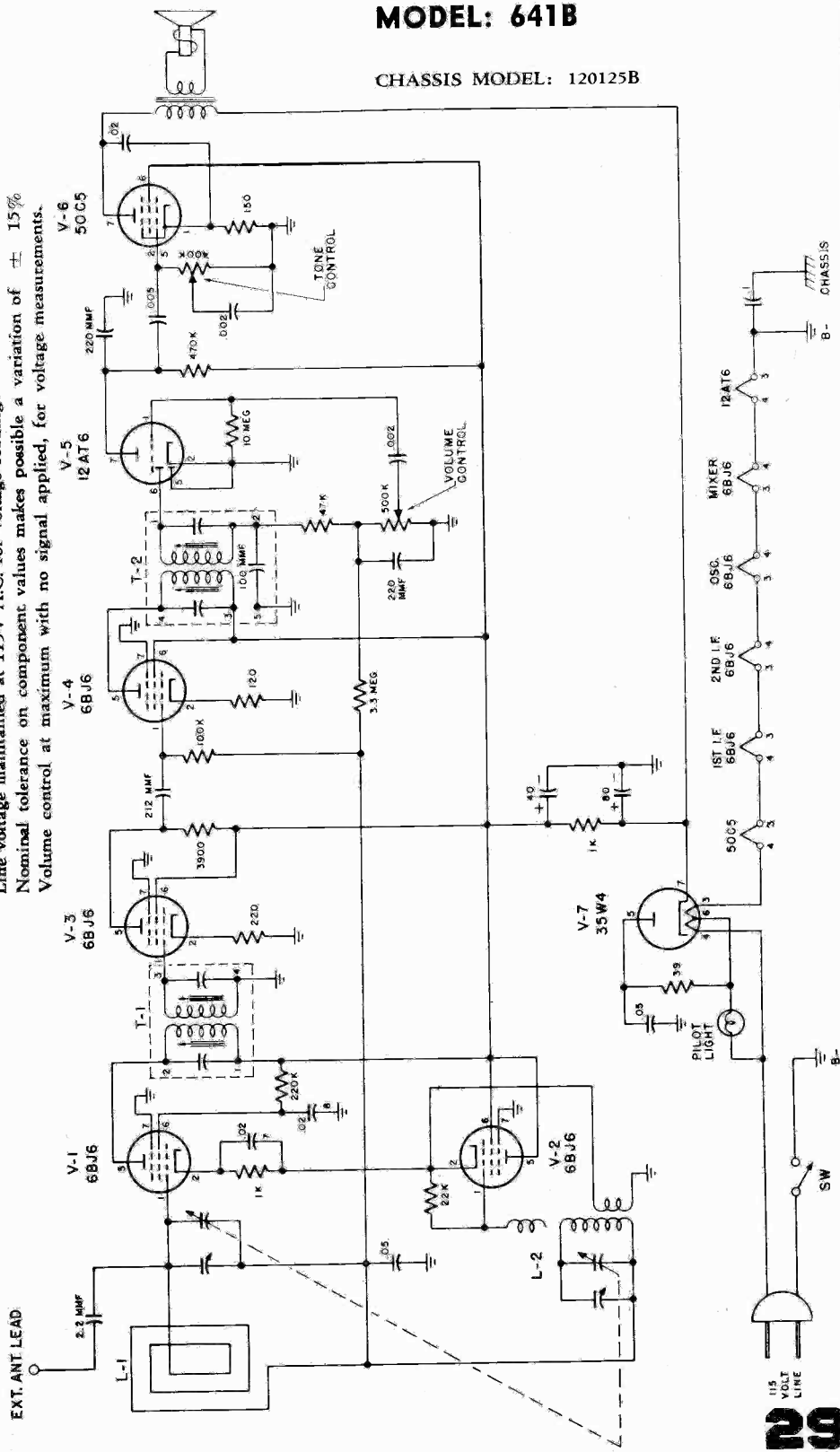
CHASSIS MODEL: 120125B

VOLTAGE READINGS FOR CHASSIS 120125-B

| SYMBOL | TUBE | PIN 1 | PIN 2 | PIN 3 | PIN 4 | PIN 5 | PIN 6 | PIN 7 |
|--------|-------|---------|--------|-------|---------|---------|---------|--------|
| V-1 | 6B16 | -1.2 DC | 1 DC | 18 AC | 12 AC | 85 DC | 35 DC | 0 |
| V-2 | 6B16 | -9.2 DC | 0 | 24 AC | 18 AC | 85 DC | 85 DC | 0 |
| V-3 | 6B16 | 0 | 1.4 DC | 30 AC | 36 AC | 68 DC | 85 DC | 0 |
| V-4 | 6B16 | -1.3 DC | .65 DC | 30 AC | 24 AC | 85 DC | 85 DC | 0 |
| V-5 | 12AT6 | -8 DC | 0 | 36 AC | 12 AC | 0 | -.65 DC | 42 DC |
| V-6 | 50C5 | 5.4 DC | 0 | 80 AC | 80 AC | 0 | 85 DC | 100 DC |
| V-7 | 35W4 | 85 DC | NC | 80 AC | 11.5 AC | 11.0 AC | 110 AC | 110 DC |

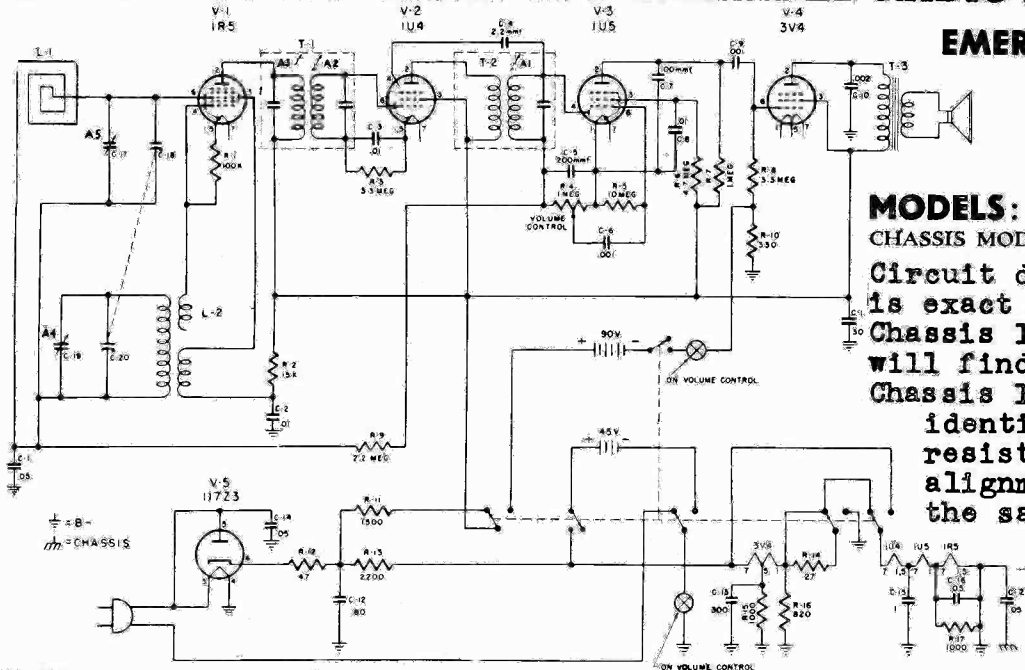


A.C. and D.C. measurements are taken with a V.T.V.M.
 Measured values are from socket pin to common negative (B—).
 Line voltage maintained at 115V A.C. for voltage readings.
 Nominal tolerance on component values makes possible a variation of $\pm 15\%$
 Volume control at maximum with no signal applied, for voltage measurements.



MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

EMERSON RADIO



MODELS: 646A, 646B
 CHASSIS MODELS: 120121A, 120121B
 Circuit diagram shown is exact for Model 646B Chassis 120121B. You will find Model 646A, Chassis 120121A almost identical. Voltage, resistance, and alignment data is the same for both.

Voltage and resistance measurements taken from socket pin to chassis. VTVM used. V.C. at maximum, no signal. Line voltage: 117 volts A.C.
VOLTAGE READINGS

| CHASSIS | SYMBOL | TUBE TYPE | PIN 1 | PIN 2 | PIN 3 | PIN 4 | PIN 5 | PIN 6 | PIN 7 |
|---------|--------|-----------|-------|-------|--------|-------|--------|-------|-------|
| 120121A | V1 | 1R5 | 0 | 95 | 60 | -6.2 | 0 | 0 | 1.3 |
| 120121B | V2 | 1U4 | 2.8 | 95 | 95 | 0 | 2.8 | .05 | 4.0 |
| | V3 | 1U5 | 1.3 | 16 | 15 | .05 | .01 | .01 | 2.5 |
| | V4 | 3V4 | 4 | 95 | 95 | 0 | 5.2 | 0 | 6.5 |
| | V5 | 117Z3 | N.C. | 115 | 115 AC | 0 | 115 AC | 116 | 115 |

RESISTANCE READINGS

| CHASSIS | SYMBOL | TUBE TYPE | PIN 1 | PIN 2 | PIN 3 | PIN 4 | PIN 5 | PIN 6 | PIN 7 |
|---------|--------|-----------|-------|--------|--------|--------|--------|----------|-------|
| 120121A | V1 | 1R5 | 0 | 3800 | 20K | 100K | 0 | 3 Meg. | 17 |
| 120121B | V2 | 1U4 | 30 | 3800 | 3800 | Inf. | 34 | 3.3 Meg. | 38 |
| | V3 | 1U5 | 17 | 1 Meg. | 1 Meg. | 1 Meg. | 3 Meg. | 10 Meg. | 30 |
| | V4 | 3V4 | 38 | 4000 | 3800 | 330 | 42 | 3.3 Meg. | 54 |
| | V5 | 117Z3 | N.C. | 2000 | 480 | 0 | 480 | 2000 | 2000 |

NC=no connection;

Inf.=infinity;

K=kilohms;

Meg.=megohms

ALIGNMENT PROCEDURE

- Use battery power when available. When a.c. power is used, connect the line cord through an isolation transformer if available. Otherwise connect a 0.1 mfd. condenser in series with the low side of the signal generator and B—.
- Set the volume control at maximum. The output of the signal generator should be no higher than that necessary to obtain an output reading. Attenuate the signal input as alignment proceeds. Use an insulated alignment tool.
- Maintain the loop in the same position relative to the chassis as when the receiver is in the cabinet.

| | DUMMY ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | RADIO DIAL SETTING | OUTPUT METER | ADJUST* | REMARKS |
|---|---------------|--|----------------------------|--------------------------------|--------------------|--|---|
| 1 | 0.1 mfd. | High side to pin 6 (grid) of V1 (1R5). Low side to chassis | 455 kc | Variable condenser fully open. | Across voice coil. | A1, (2nd i-f trans), A2, A3 (1st i-f trans.) | Adjust for maximum output. If a.c. is used without an isolation transformer, reduce dummy antenna to 200 mmf. to reduce hum modulation. |
| 2 | 200 mmf. | High side to external ant. lead. Low side to chassis | 1620 kc | Variable condenser fully open. | Across voice coil. | A4 (trimmer cond. C4.) | Adjust for maximum output. |
| 3 | 200 mmf. | " | 1400 kc | Tune for maximum output. | Across voice coil. | A5 (trimmer cond. C2.) | Adjust for maximum output. |

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Emerson Radio

MODEL: 659B

CHASSIS MODEL: 120126-B

INSTRUCTIONS FOR VOLTAGE AND RESISTANCE READINGS

1. Voltages readings are in d.c. volts and resistance reading in ohms, unless otherwise specified.
2. D.c. voltage measurements are made at 20,000 ohms-per-volt and a.c. voltages are measured at 1000 ohms-per-volt.
3. Socket connections are shown as bottom views. Values are measured from socket pin to common negative.
4. Line voltage maintained at 115 volts a.c. for voltage readings.
5. Nominal tolerance on component values makes possible a variation of $\pm 15\%$ in readings.
6. Volume control at maximum, with no signal applied and bandswitch in broadcast position (unless otherwise noted), for voltage measurements.

VOLTAGE READINGS (CHASSIS 120126-B)

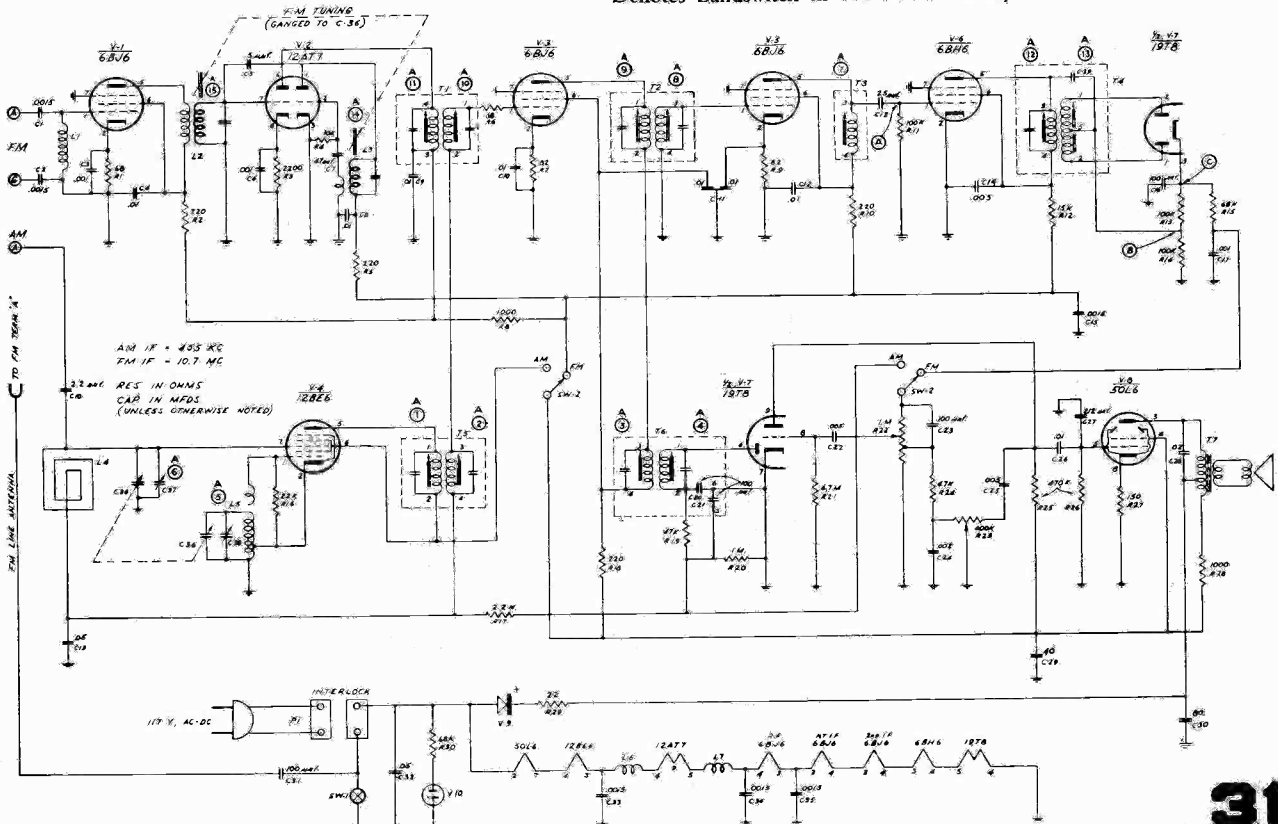
| SYMBOL | TUBE | PIN 1 | PIN 2 | PIN 3 | PIN 4 | PIN 5 | PIN 6 | PIN 7 | PIN 8 | PIN 9 |
|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| V-1 | 6BJ6 | 0 | .6* | 35 AC | 41 AC | 78* | 78* | 0 | — | — |
| V-2 | 12AT7 | 86* | -2.8* | 0 | 53 AC | 41 AC | 80* | 0 | 1.7* | NC |
| V-3 | 6BJ6 | -.4 | .8 | 35 AC | 30 AC | 100 | 100 | 0 | — | — |
| V-4 | 12BE6 | -7.6 | 0 | 53 AC | 64 AC | 100 | 100 | -.4 | — | — |
| V-5 | 6BJ6 | 0 | .7* | 30 AC | 24 AC | 86* | 86* | 0 | — | — |
| V-6 | 6BH6 | -.3 | 0 | 24 AC | 18 AC | 50* | 50* | 0 | — | — |
| V-7 | 19T8 | -.5* | -.6* | -.1* | 0 | 18 AC | -.5 | 0 | -.5 | 40 |
| V-8 | 50L6 | NC | 115 AC | 110 | 105 | 0 | NC | 64 AC | 7.2 | — |

RESISTANCE READINGS (CHASSIS 120126-B)

| SYMBOL | TUBE | PIN 1 | PIN 2 | PIN 3 | PIN 4 | PIN 5 | PIN 6 | PIN 7 | PIN 8 | PIN 9 |
|--------|-------|----------|-------|-------|-------|-------|-------|----------|----------|-------|
| V-1 | 6BJ6 | 0 | 68 | 42 | 50 | 200K* | 200K* | 0 | — | — |
| V-2 | 12AT7 | 200K* | 10K | 0 | 62 | 50 | 200K* | 0 | 2200 | NC |
| V-3 | 6BJ6 | 3.2 meg. | 82 | 42 | 35 | 200K* | 200K* | 0 | — | — |
| V-4 | 12BE6 | 22K | .5 | 62 | 75 | 200K | 200K | 2.7 meg. | — | — |
| V-5 | 6BJ6 | .6 | 82 | 35 | 28 | 200K* | 200K* | 0 | — | — |
| V-6 | 6BH6 | 100K | 0 | 28 | 20 | 200K* | 200K* | 0 | — | — |
| V-7 | 19T8 | 100K | 100K | 175K* | 0 | 20 | 500K | 0 | 4.7 meg. | 500K |
| V-8 | 50L6 | NC | 130 | 200K | 200K | 470K | NC | 75 | 150 | — |

N.C. Denotes "No Connection."

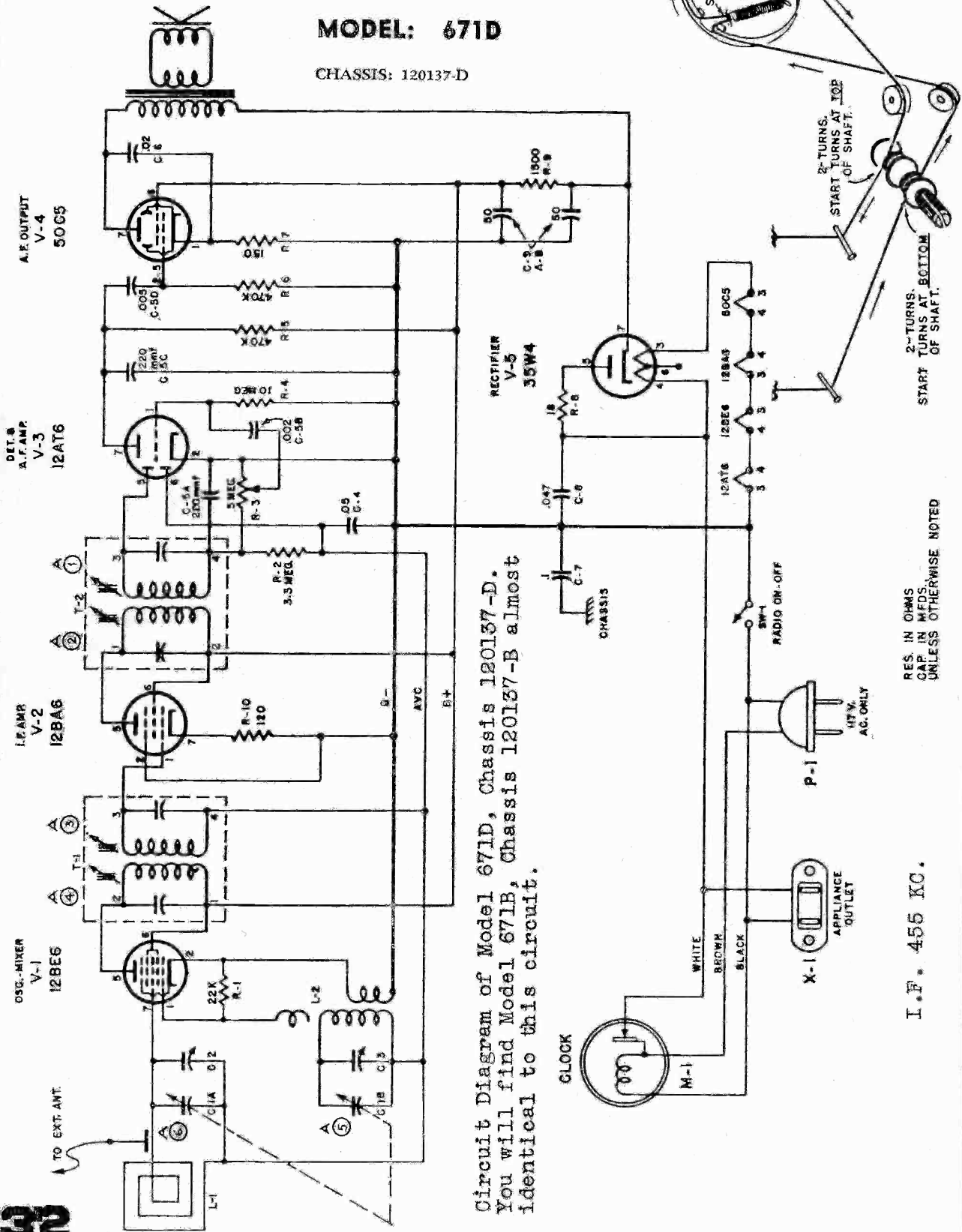
*Denotes Bandswitch in FM Position Only.



Emerson Radio

MODEL: 671D

CHASSIS: 120137-D



Circuit Diagram of Model 671D, Chassis 120137-D. You will find Model 671B, Chassis 120137-B almost identical to this circuit.

RES. IN OHMS
CAP. IN MFDS
UNLESS OTHERWISE NOTED

I.F. 455 KC.

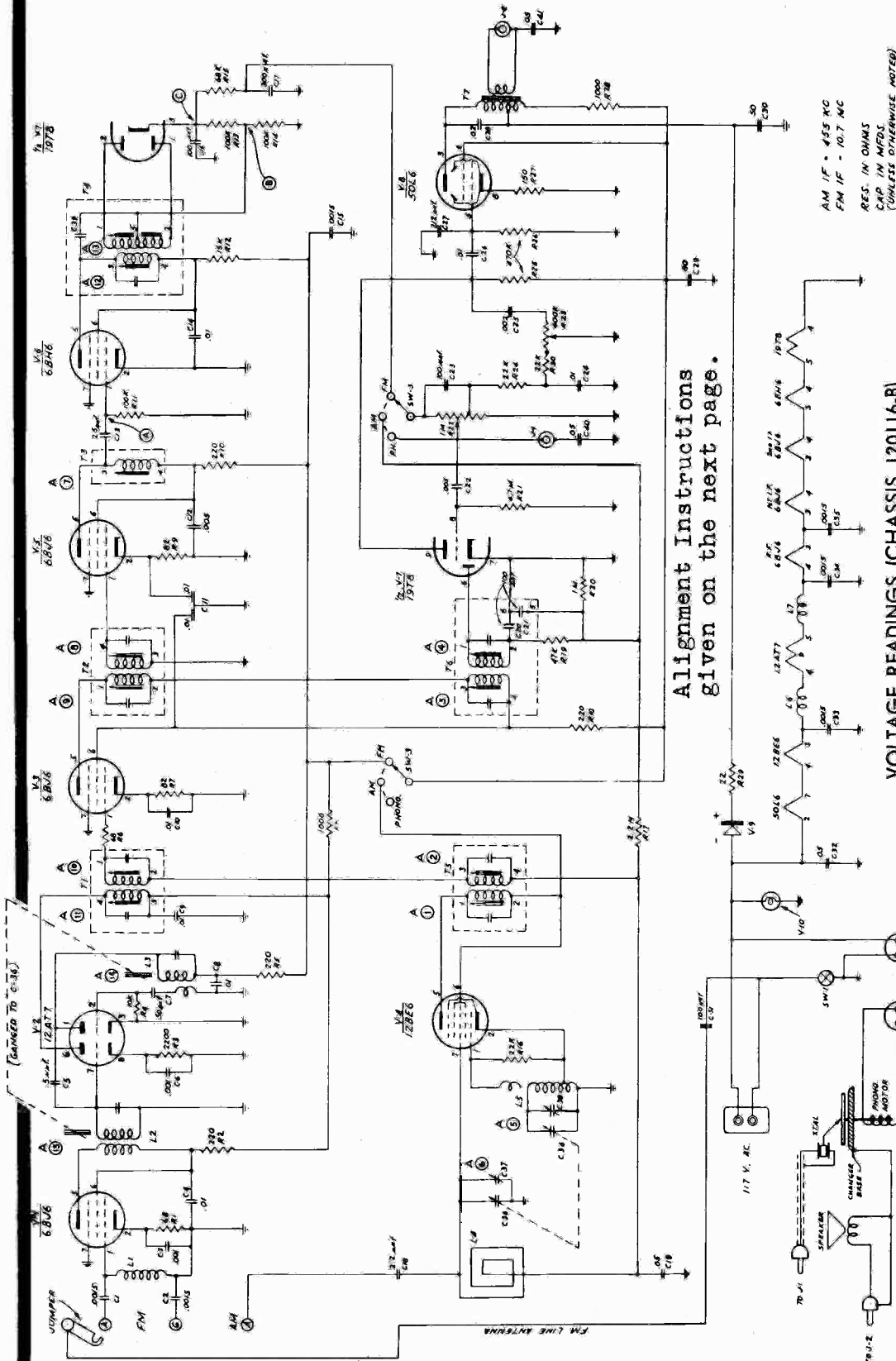


MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Emerson Radio

MODEL: 679B

CHASSIS MODEL: 120116-B



AM IF - 455 KC
FM IF - 10.7 MC
RES. IN OHMS
CAP. IN MFDs
(UNLESS OTHERWISE NOTED)

Alignment Instructions
given on the next page.

VOLTAGE READINGS (CHASSIS 120116-B)

| SYMBOL | TUBE | PIN 1 | PIN 2 | PIN 3 | PIN 4 | PIN 5 | PIN 6 | PIN 7 | PIN 8 | PIN 9 |
|--------|-------|--------|----------|----------|----------|----------|--------|-------|----------|--------|
| V-1 | 6BJ6 | 0 | .6 V.* | 35 V.A.C | 41 V.A.C | 78 V.* | 78 V.* | 0 | 1.7 V.* | N.C. |
| V-2 | 12AT7 | 86 V.* | -2.8 V.* | 0 | 53 V.A.C | 41 V.A.C | 80 V.* | 0 | 0 | 0 |
| V-3 | 6BJ6 | -4 V | .8 V. | 35 V.A.C | 30 V.A.C | 100 V. | 100 V. | 0 | 0 | 0 |
| V-4 | 12BE6 | -7.6 V | 0 | 53 V.A.C | 64 V.A.C | 100 V. | 100 V. | 0 | 0 | 0 |
| V-5 | 6BJ6 | 0 | .7 V.* | 30 V.A.C | 24 V.A.C | 86 V.* | 86 V.* | 0 | 0 | 0 |
| V-6 | 6BH6 | -3 V. | 0 | 24 V.A.C | 18 V.A.C | 50 V.* | 50 V.* | 0 | -5 V. | 40 V. |
| V-7 | 19T8 | -5 V.* | -6 V.* | -1 V.* | 0 | 18 V.A.C | -5 V. | 0 | 64 V.A.C | 7.2 V. |
| V-8 | 50L6 | N.C. | 115V.A.C | 110 V. | 105 V. | 0 | N.C. | 0 | 0 | 0 |

*Bandswitch in F.M. Position Only.

N.C. Denotes "No Connection."

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

EMERSON RADIO ** ALIGNMENT INSTRUCTIONS, MODEL 679B, continued.

To position pointer, turn variable condenser fully closed and set pointer to reference mark on dial backplate at the low frequency end of the dial. Volume control should be set at maximum position. The output of the signal generator should be no higher than necessary to obtain an output reading. Attenuate the signal input as alignment proceeds. Use an insulated alignment tool for all adjustments. Use isolation transformer if available; otherwise connect a .1 mfd. condenser in series with low side of signal generator to chassis.

AM ALIGNMENT

| | DUMMY ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | BAND SWITCH POSITION | RADIO DIAL SETTING | OUTPUT METER | ADJUST | REMARKS |
|---|---------------|--|----------------------------|----------------------|------------------------------|--------------------|---|---|
| 1 | .1 mfd. | High side to Pin 7 (grid) of 12BE6. Low side to chassis. | 455 KC. | Broadcast | Tuning condenser fully open. | Across voice coil. | A1, A2, (Trans. T4). A3, A4, (Trans. T2). | Adjust for maximum output. Reduce dummy antenna to .001 mfd. if isolation trans. is not used. |
| 2 | | Loop | 1620 KC. | Broadcast | Tuning condenser fully open. | Across voice coil. | A5, (Trimmer cond. C6). | Form loop of several turns of wire. Radiate signal into receiver loop. Adjust for maximum output. |
| 3 | | Loop | 1400 KC. | Broadcast | Tune for max. output. | Across voice coil. | A6, (Trimmer cond. C5). | Adjust for maximum output. |

FM I-F and Disc. Alignment Using AM Signal Generator and VTVM

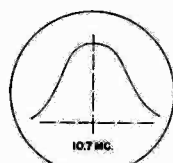
| | DUMMY ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | BAND SWITCH POSITION | RADIO DIAL SETTING | CONNECT VTVM | ADJUST | REMARKS |
|---|---------------|--|----------------------------|----------------------|------------------------------|---|------------------------|---|
| 1 | .01 mfd. | High side to Pin 1 (grid) of 6BJ6 2nd i-f (V5). Low side to chassis. | 10.7 mc. (Unmodulated) | Frequency modulation | Tuning condenser fully open. | Connect d.c. probe to point "A". Common to chassis. | A7, (Trans. T5). | Adjust for maximum output. |
| 2 | .01 mfd. | High side to Pin 1 (grid) of 6BJ6 1st i-f (V3). Low side to chassis. | 10.7 mc. (Unmodulated) | Frequency modulation | Tuning condenser fully open. | Connect d.c. probe to point "A". Common to chassis. | A8, A9, (Trans. T3). | Adjust for maximum output. |
| 3 | .01 mfd. | High side to Pin 7 of 12AT7 conv. (V2). Low side to chassis. | 10.7 mc. (Unmodulated) | Frequency modulation | Tuning condenser fully open. | Connect d.c. probe to point "A". Common to chassis. | A10, A11, (Trans. T1). | Adjust for maximum output. |
| 4 | .01 mfd. | High side to Pin 1 (grid) of 6BJ6 2nd i-f (V5). Low side to chassis. | 10.7 mc. (Unmodulated) | Frequency modulation | Tuning condenser fully open. | Connect d.c. probe to point "B". Common to chassis. | A12, (Trans. T6). | Adjust for maximum output. |
| 5 | .01 mfd. | " | 10.7 mc. (Unmodulated) | Frequency modulation | Tuning condenser fully open. | Connect d.c. probe to point "C". Common to chassis. | A13, (Trans. T6). | Adjust for zero output. Continue with FM r-f alignment. |

FM I-F AND DISC. ALIGNMENT USING SWEEP SIGNAL GENERATOR AND OSCILLOSCOPE. Use frequency modulated signal, with 60 cycle modulation and 450 kc sweep. Use 120 cycle sawtooth sweep voltage in oscilloscope for horizontal deflection.

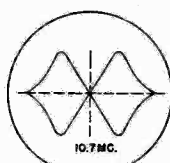
| | DUMMY ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | BAND SWITCH POSITION | RADIO DIAL SETTING | CONNECT OSCILLOSCOPE | ADJUST | REMARKS |
|---|---------------|--|----------------------------|----------------------|------------------------------|---|---------------------------------|---|
| 1 | .01 mfd. | High side to Pin 1 (grid) of 6BJ6 1st i-f (V3). Low side of chassis. | 10.7 mc. (Unmodulated). | Frequency modulation | Tuning condenser fully open. | Vertical input to Point "A". Ground to chassis. | A7, A8, A9, (Trans. T5 and T3). | Adjust for maximum output (height) and symmetry as per i-f alignment curve shown. |
| 2 | .01 mfd. | High side to Pin 7 of 12AT7 of conv. (V2). Low side to chassis. | 10.7 mc. (Unmodulated). | Frequency modulation | Tuning condenser fully open. | Vertical input to Point "A". Ground to chassis. | A10, A11, (Trans. T1). | Adjust for maximum output (height) and symmetry as per i-f alignment curve shown. |
| 3 | .01 mfd. | High side to Pin 1 (grid) of 6BJ6 2nd i-f (V5). Low side to chassis. | 10.7 mc. (Unmodulated). | Frequency modulation | Tuning condenser fully open. | Vertical input to Point "C". Ground to chassis. | A12, A13, (Trans. T6). | Alternately adjust A12 for maximum amplitude and A13 for maximum straightness of cross-over lines, with cross-over occurring at center of pattern as per discriminator alignment curve. Continue with FM r-f alignment. |

FM R-F ALIGNMENT

| | DUMMY ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | BAND SWITCH POSITION | RADIO DIAL SETTING | CONNECT VTVM | ADJUST | REMARKS |
|---|--|---|----------------------------|----------------------|------------------------------|---|-----------------|----------------------------|
| 1 | 300 ohm resistor in series with gen. lead. | High side to FM ant. term. Low side to chassis. | 109.0 mc. (Unmodulated). | Frequency modulation | Tuning condenser fully open. | Connect d.c. probe to point "A". Common to chassis. | A14 (Iron Core) | Adjust for maximum output. |
| 2 | " | " | 106.0 mc. | Frequency modulation | Tune for maximum output. | " | A15 (Iron Core) | Adjust for maximum output. |

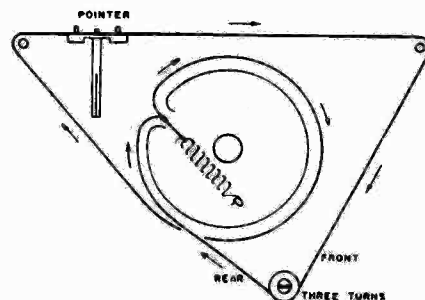


I.F. AND LIMITER



DISCRIMINATOR

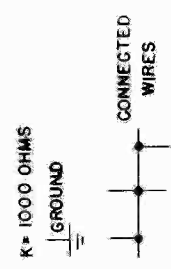
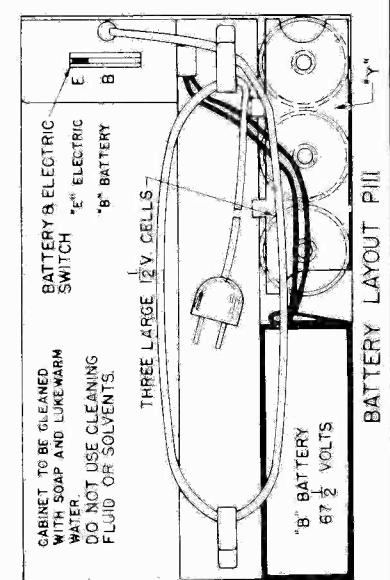
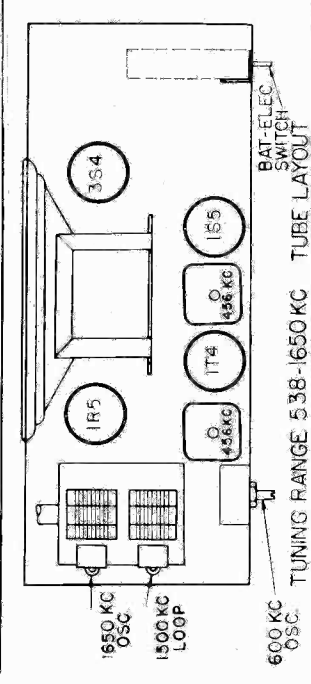
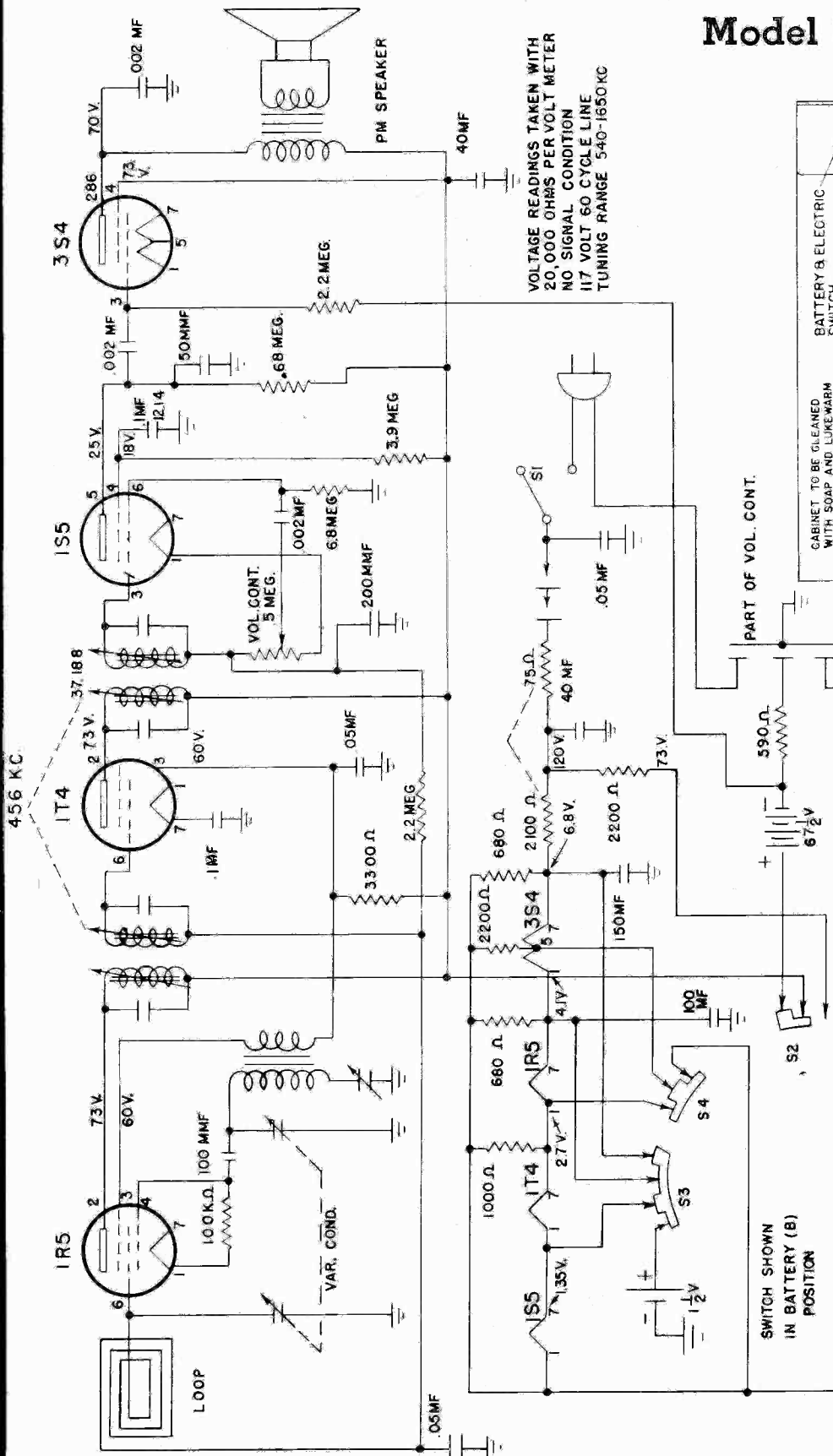
ALIGNMENT CURVES (FM)



MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

FADA RADIO & ELECTRIC CO., Inc.

Model P111



MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

FADA RADIO & ELECTRIC CO., Inc.

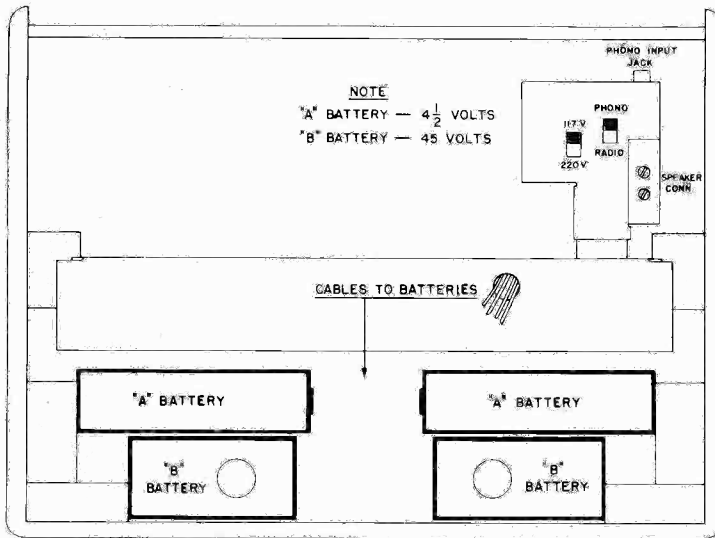
Model P-130

Portable Receiver designed for operation from 105-125 volts, 40-60 cycles A.C. or the same voltage D.C., or 180-220 volts, 40-60 cycles A.C., or from batteries.

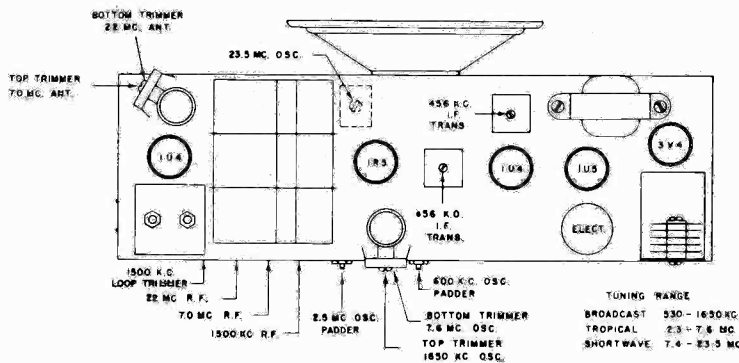
Frequency ranges are:
530 KC to 1650 KC,
2.3 MC to 7.6 MC, and
7.4 MC to 23.5 MC.

I.F. 456 KC.

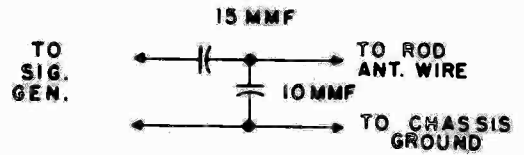
Speaker: 5" P.M., 1.47 oz.
Alnico V Magnet.
Voice coil: 3.2 ohms.



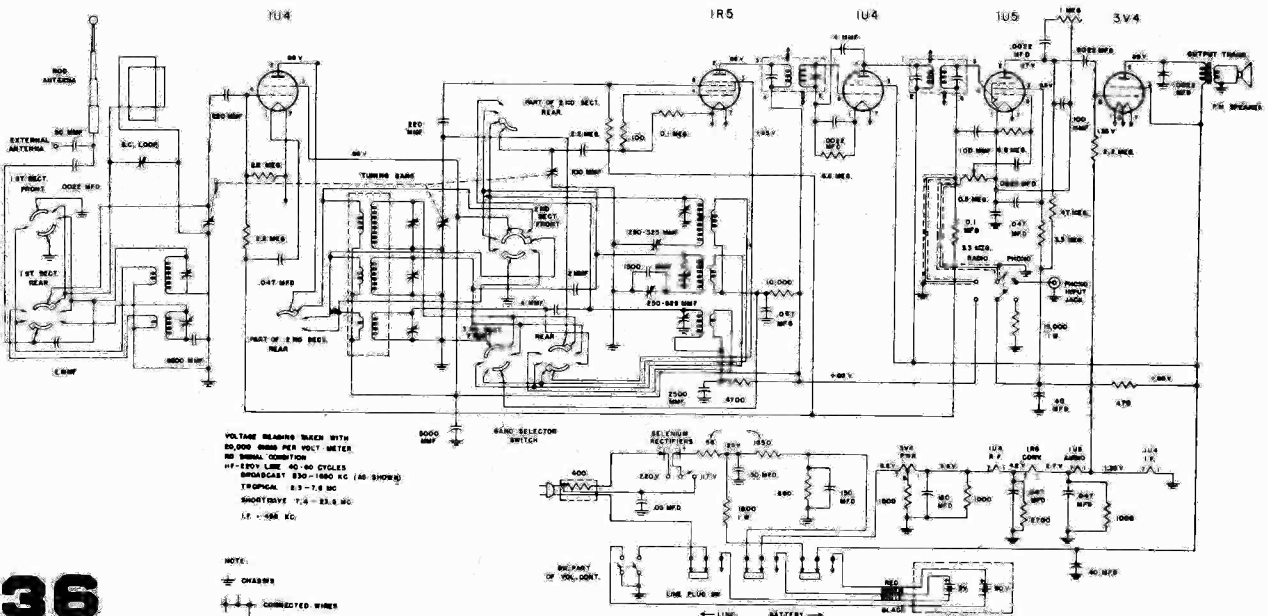
BATTERY LAYOUT P130



TUBE LAYOUT P130



ROD DUMMY ANTENNA

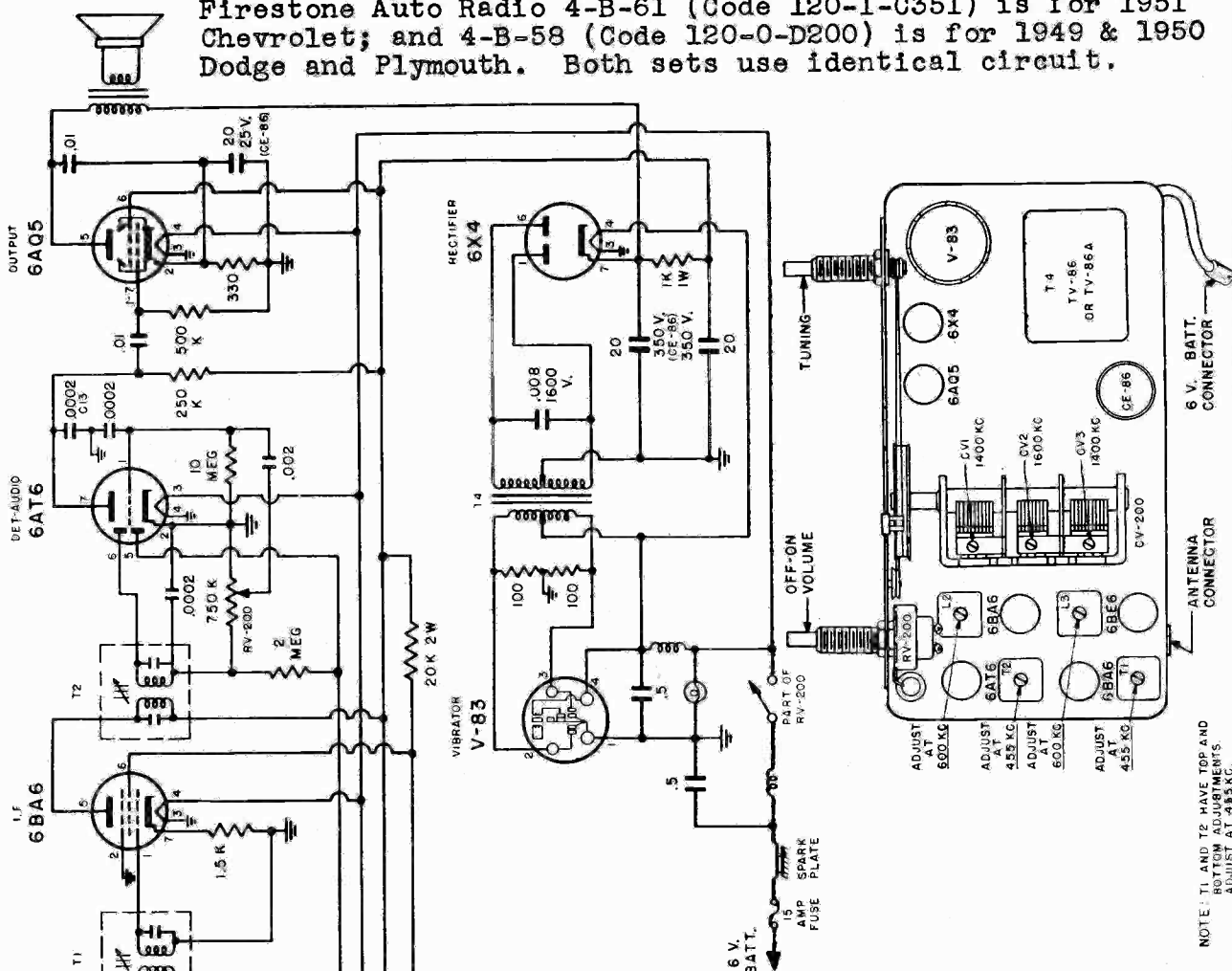


MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

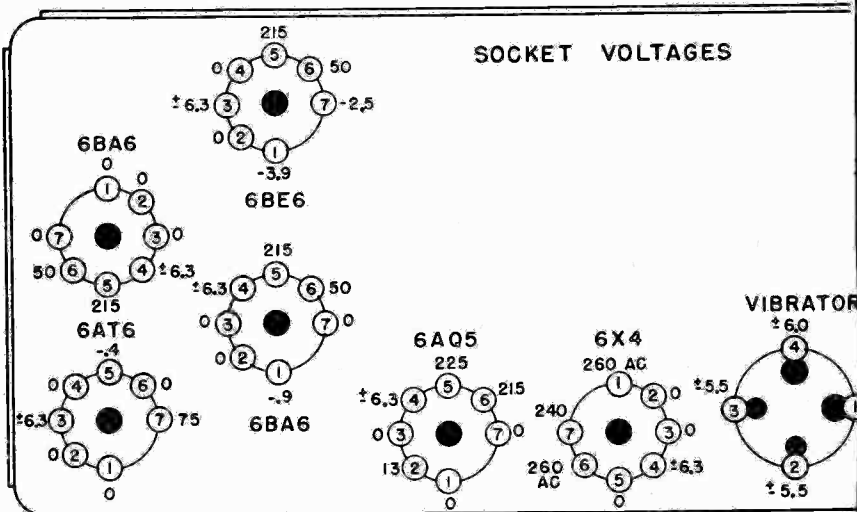
THE FIRESTONE TIRE & RUBBER CO.

4-B-58 and 4-B-61

Firestone Auto Radio 4-B-61 (Code 120-1-C351) is for 1951 Chevrolet; and 4-B-58 (Code 120-0-D200) is for 1949 & 1950 Dodge and Plymouth. Both sets use identical circuit.



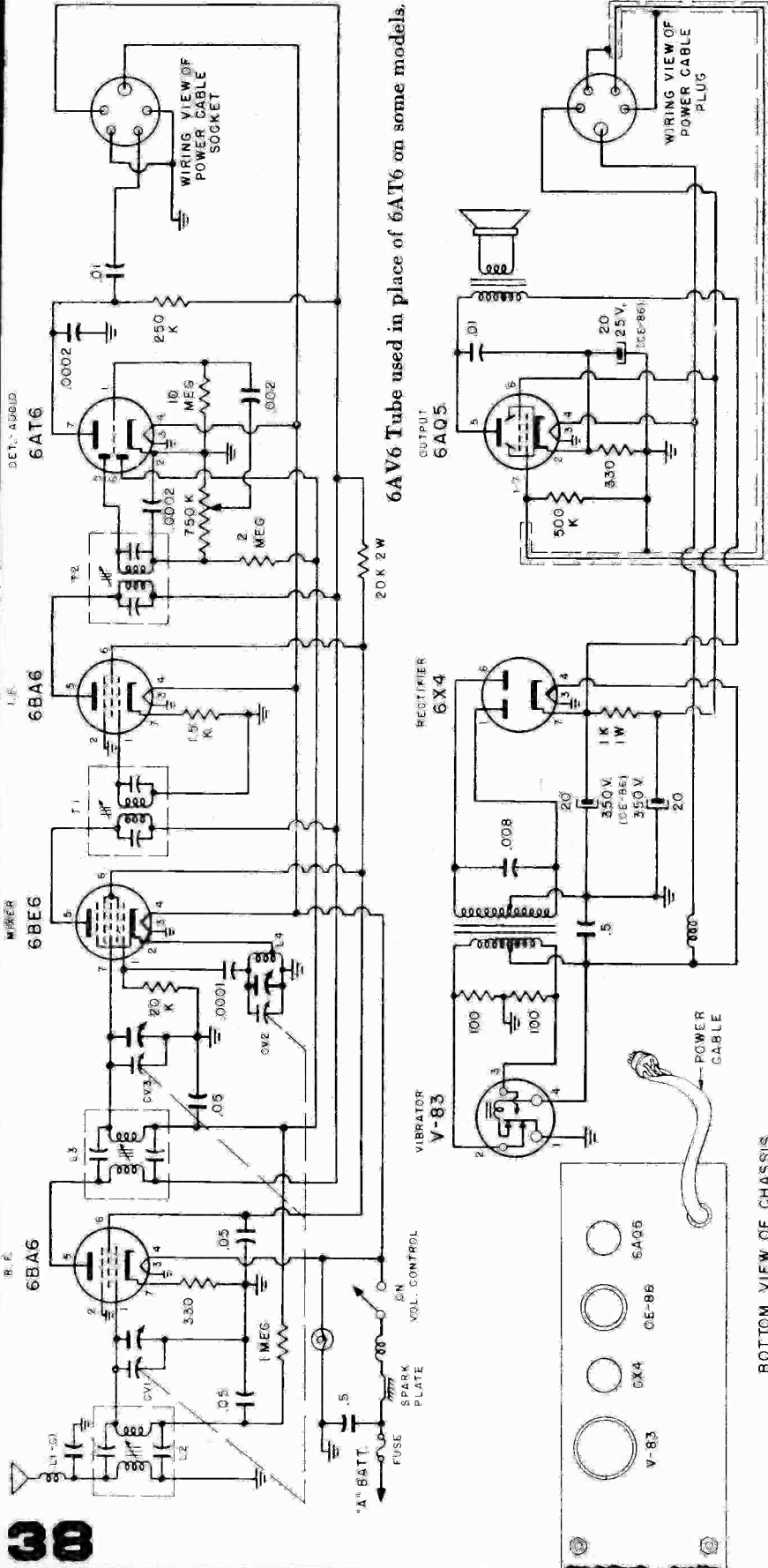
BOTTOM VIEW OF CHASSIS



FRONT OF CHASSIS

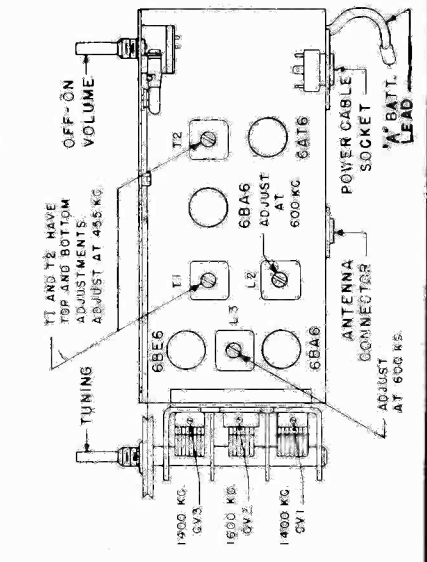
Note: 6AV6 used in place of 6AT6 on some models.

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

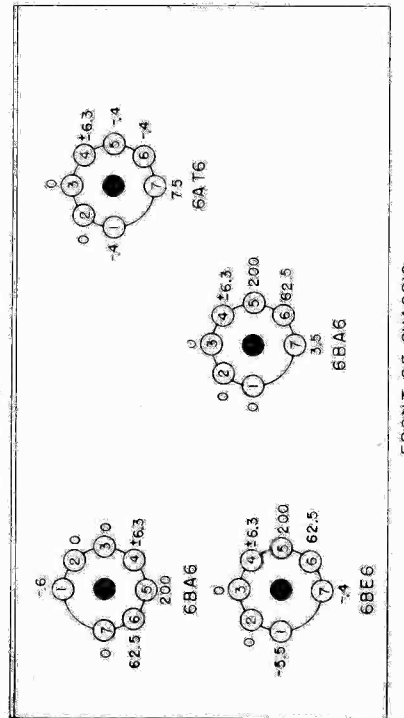


FIRESTONE TIRE & RUBBER

Custom Auto Radios for
 1951 Ford, No. 4-B-60;
 1949-1950 Ford, 4-B-56;
 1950-1951 Studebaker,
 No. 4-B-62; and 1949-
 1950 Chevrolet, 4-B-57.
 The same electrical circuit is used in all these models, but location of parts may differ.



BOTTOM VIEW OF CHASSIS



FRONT OF CHASSIS

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

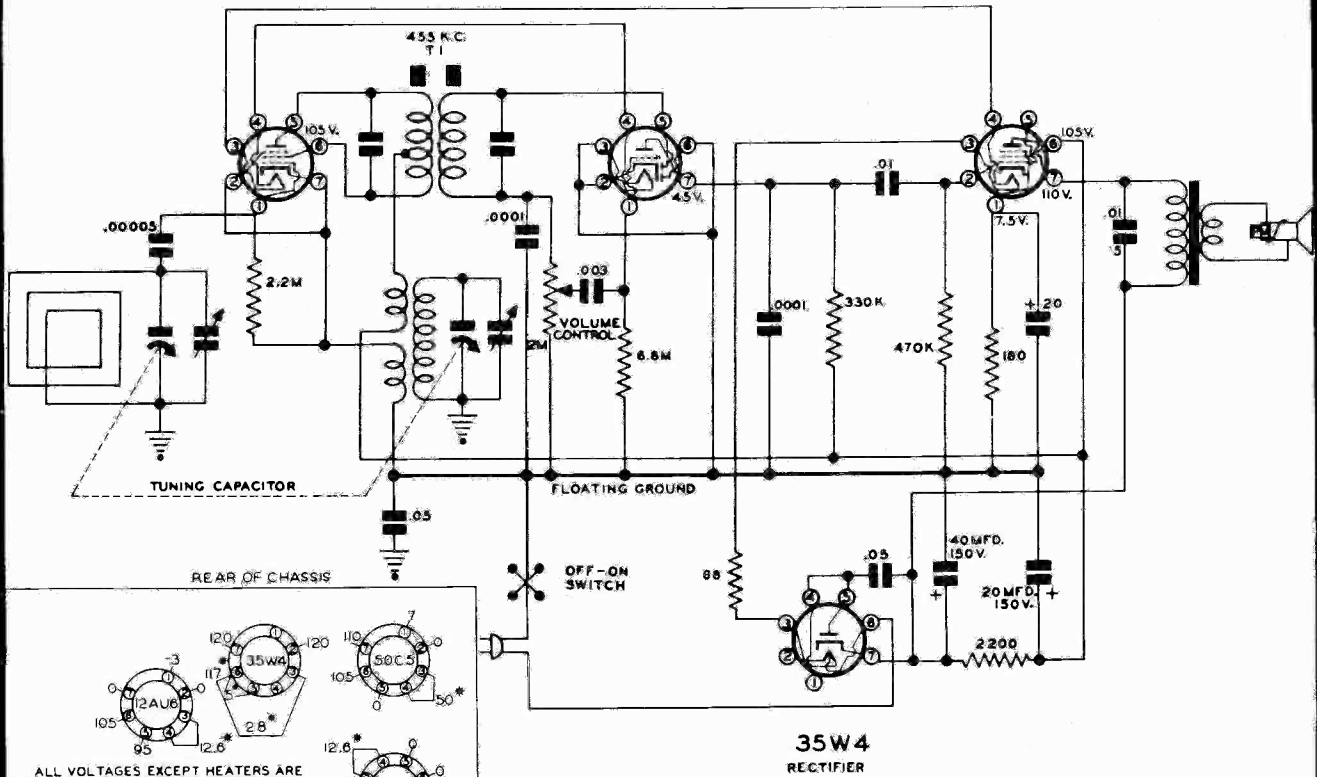
THE FIRESTONE TIRE & RUBBER CO.

Stock No. 4-A-70
Code No. 297-0-299

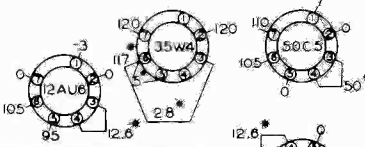
12AU6
CONVERTER

12AV6
DIODE-AUDIO

50C5
OUTPUT



REAR OF CHASSIS



ALL VOLTAGES EXCEPT HEATERS ARE MEASURED FROM SOCKET CONTACTS TO THE COMMON NEGATIVE WITH A 1000 OHM PER VOLT VOLT METER. HEATER VOLTAGES ARE MEASURED DIRECTLY ACROSS SOCKET CONTACTS.

* A.C. EXCEPT WHEN SET IS USED ON D.C.

VOLTAGE TABLE
(BOTTOM VIEW OF CHASSIS)

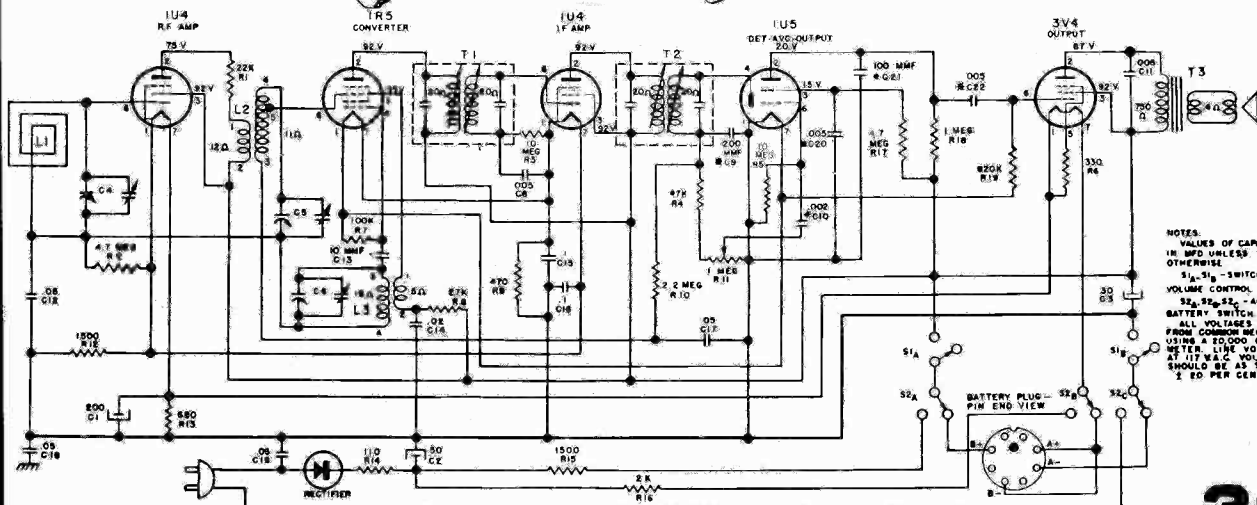
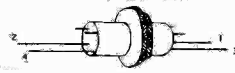
Firestone

Stock No. 4-C-18
Code No. 332-0-175193

I. F. Frequency
455 KC

L2 - R.F. COIL

L3 - OSC. COIL



NOTES:
VALUES OF CAPACITORS IN MFD UNLESS SHOWN OTHERWISE
S1A-S1B - SWITCH ON VOLUME CONTROL
S2A-S2B-S2C - AC/DC BATTERY SWITCH
ALL VOLTAGES MEASURED FROM COMMON NEGATIVE USING A 20,000 OHM/VOLT METER. LINE VOLTAGE SET AT 117 AC VOLTS SHOULD BE AS SHOWN ± 2.0 PER CENT.

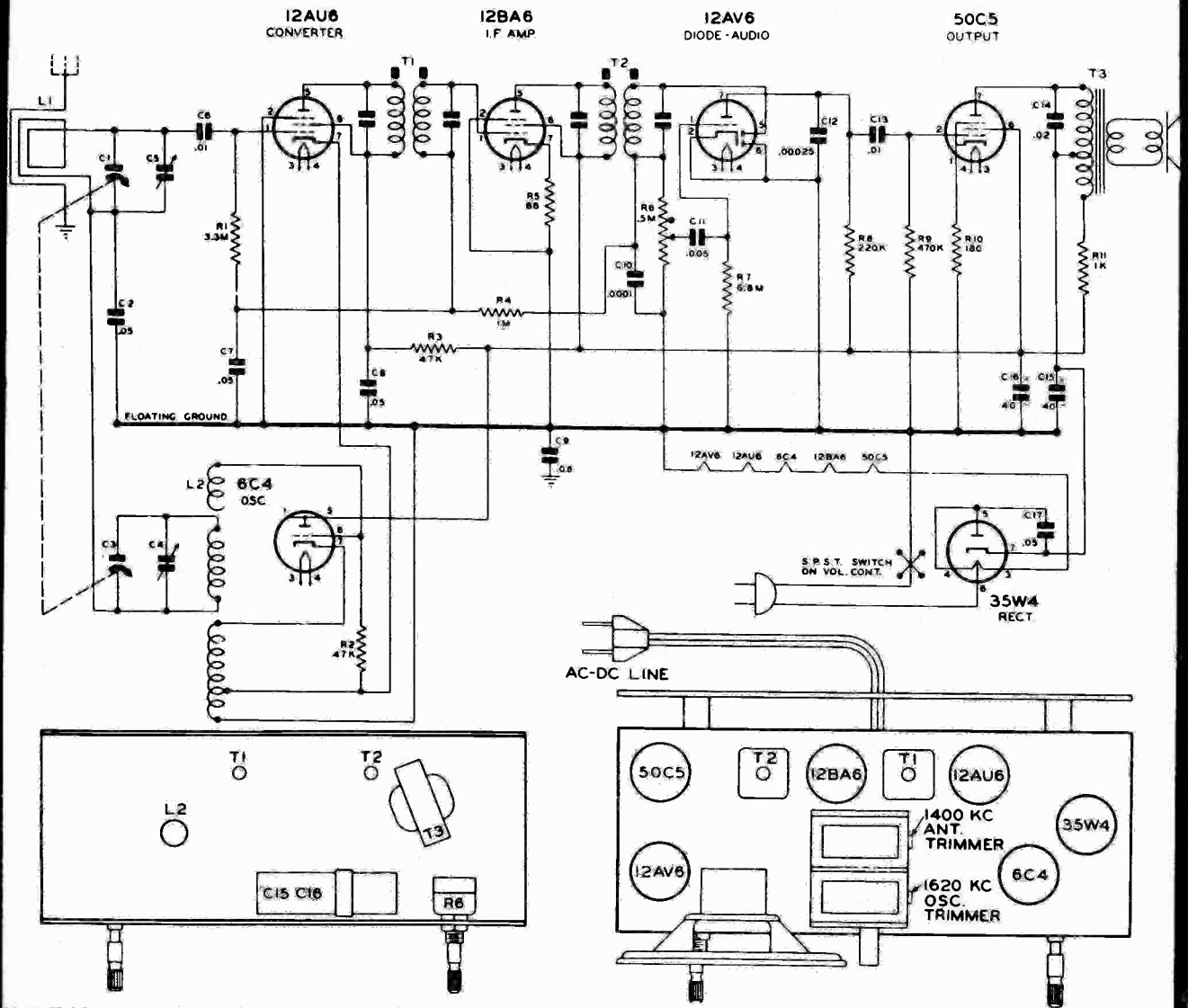
* THESE CAPACITORS ARE IN CERAMIC UNIT PART NUMBER 17-103.

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

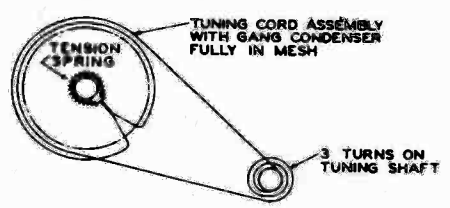
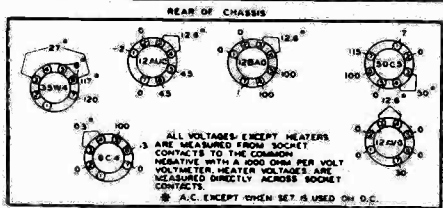
Firestone

CODE NO.
STOCK NO.
STOCK NO.

297-0-3123
4-A-85 Walnut
4-A-89 White

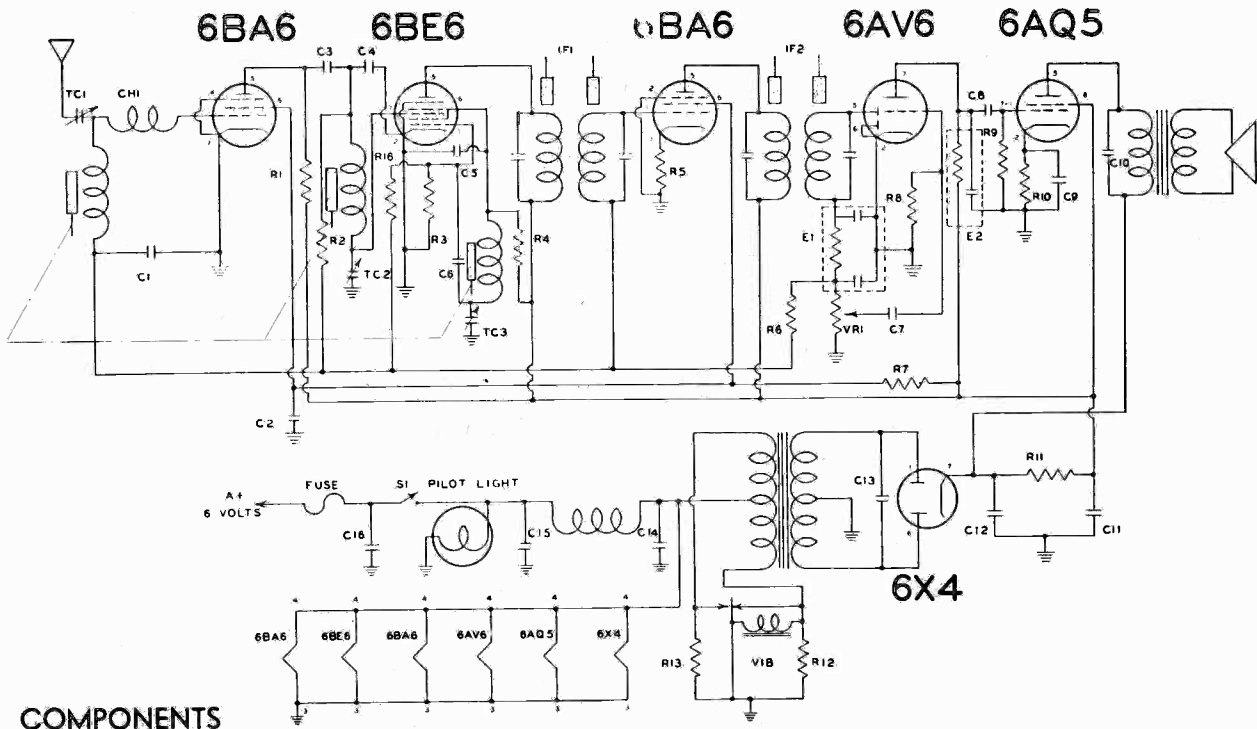


| Steps | Set Receiver dial to: | TEST OSCILLATOR | | DUMMY ANTENNA | Refer to parts layout diagram for location of trimmers mentioned below: |
|-------|--|--------------------------------------|---|---------------------|--|
| | | Adjust test oscillator frequency to: | Attach output of test oscillator to: | | |
| 1 | Any point where no interfering signal is received. | EXACTLY 455 KC | High side to grid of 12AU6 Tube. Low side to common negative. | .05 MFD. CONDENSER. | Adjust slugs at top and bottom of 2nd I.F. (T2) and then each of the slugs of the 1st I.F. (T1) for max. output. |
| 2 | Exactly 1620 KC | Exactly 1620 KC | External Antenna blue lead on loop. | 100 MMFD CONDENSER | Adjust 1620 KC oscillator trimmer for maximum output. |
| 3 | Approx. 1400 KC | Approx. 1400 KC | External Antenna blue lead on loop. | 100 MMFD CONDENSER | Adjust 1400 KC antenna trimmer for maximum output. |



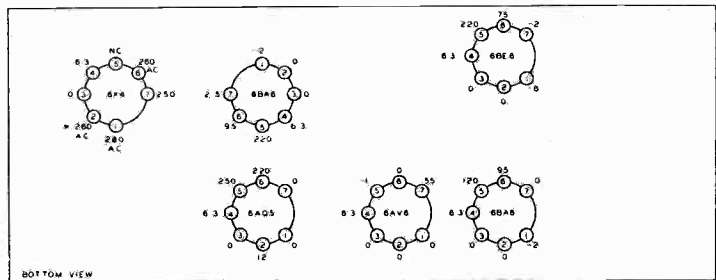
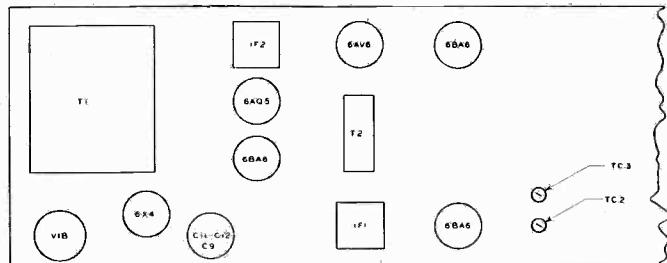
MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

CORONADO RADIO MODEL 05RA33-43-5016A



COMPONENTS

| SYMBOL | DESCRIPTION | VALUE | RATING |
|--------------|----------------------------------|---------------------|------------------|
| TC2-TC3 | Dual Trimmer | | |
| TC1 | Trimmer | | |
| C9, C11, C12 | Electrolytic Generator capacitor | 5 MFD | 350-350-25 volts |
| C14, C15 | Capacitor, paper | .5 MFD | 200 volts |
| C1 | Capacitor, paper | .047 MFD | 200 volts |
| C2 | Capacitor, paper | .047 MFD | 400 volts |
| C8 | Capacitor, paper | .015 MFD | 600 volts |
| C7, C10 | Capacitor, paper | .01 MFD | 600 volts |
| C13 | Capacitor, buffer | .0056 MFD | 1600 volts |
| C5 | Capacitor, mica | 1420 MMFD | 500 volts |
| C4 | Capacitor, mica | 300 MMFD | 500 volts |
| C6 | Capacitor, mica | 50 MMFD | 500 volts |
| C3 | Capacitor, mica | 10 MMFD | 500 volts |
| C16 | Capacitor, spark | 200 MMFD | 2000 volts |
| R12, R13 | Resistor | 68 ohms | 1/2 watt |
| R5 | Resistor | 1200 ohms | 1/2 watt |
| R1, R3 | Resistor | 22K ohms | 1/2 watt |
| R4 | Resistor | 33K ohms | 1/2 watt |
| R9 | Resistor | 470K ohms | 1/2 watt |
| R2 | Resistor | 1.8 megohm | 1/2 watt |
| R6 | Resistor | 2.2 megohm | 1/2 watt |
| R8 | Resistor | 10 megohm | 1/2 watt |
| R10 | Resistor | 450 ohms | 1 watt |
| R11 | Resistor | 1000 ohms | 1 watt |
| R7 | Resistor | 27K ohms | 1 watt |
| | Resistor, suppressor | 10K ohms | 1 watt |
| VR1 | Volume control | 1 megohm | |
| S1 | Switch SP.S.T. | | |
| E2 | Capristor | 270K ohm/100 MMFD | |
| E1 | Diode filter unit | 100-100 MFD/47K ohm | |



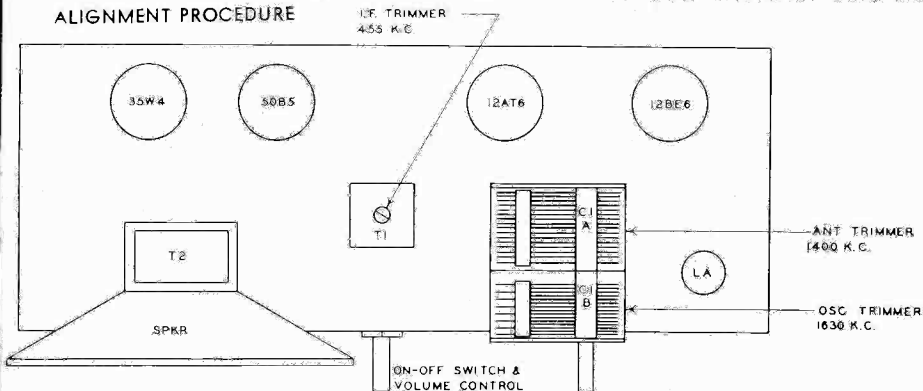
ALIGNMENT PROCEDURE

| Frequency | Dummy Antenna | Connection To Radio | Position Of Tuner | Adjust for Max. Output |
|-----------|---------------|---------------------|---------------------|------------------------|
| 257.5 KC | 100 MMFD | 6BE6 Grid Pin No. 7 | Slugs Out | IF1 & IF2 |
| 1610 KC | 100 MMFD | Ant. Jack | Slugs Out | TC3 |
| 1610 KC | 100 MMFD | Ant. Jack | Slugs Out | TC2 |
| 1610 KC | 100 MMFD | Ant. Jack | Slugs Out | TC1 |
| 1400 KC | 100 MMFD | Ant. Jack | Tune in Signal Gen. | LA Slug & LR Slug |

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

CORONADO "BANTAM" RADIO MODEL 05RA33-43-8120A

ALIGNMENT PROCEDURE

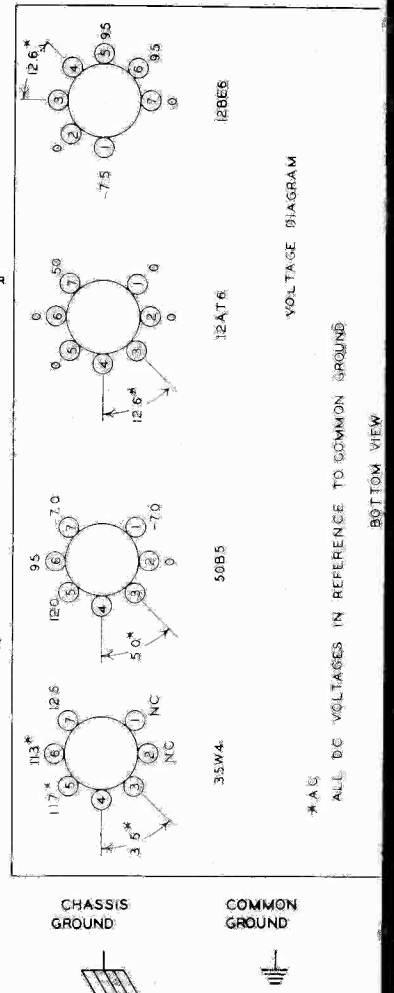
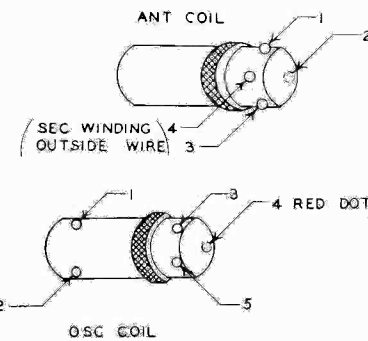


| Frequency | SIGNAL GENERATOR Dummy Antenna | Connection to Radio | POSITION OF VARIABLE | ADJUST FOR MAXIMUM OUTPUT |
|-----------|--------------------------------------|--|--|---------------------------------|
| 455 KC | 100 MMFD | 12BE6 Grid | Fully Open | T1 |
| 1630 KC | 100 MMFD | Stator C1A 12BE6 Grid | Fully Open | C1B Oscillator |
| 1400 KC | 100 MMFD | Stator C1A Coupled to Antenna Lead | Open Tune in Signal Generator | C1A Antenna |

Connect low side of signal generator to chassis.

PARTS VALUES FOR T-64 GAMBLE'S AC-DC BANTAM

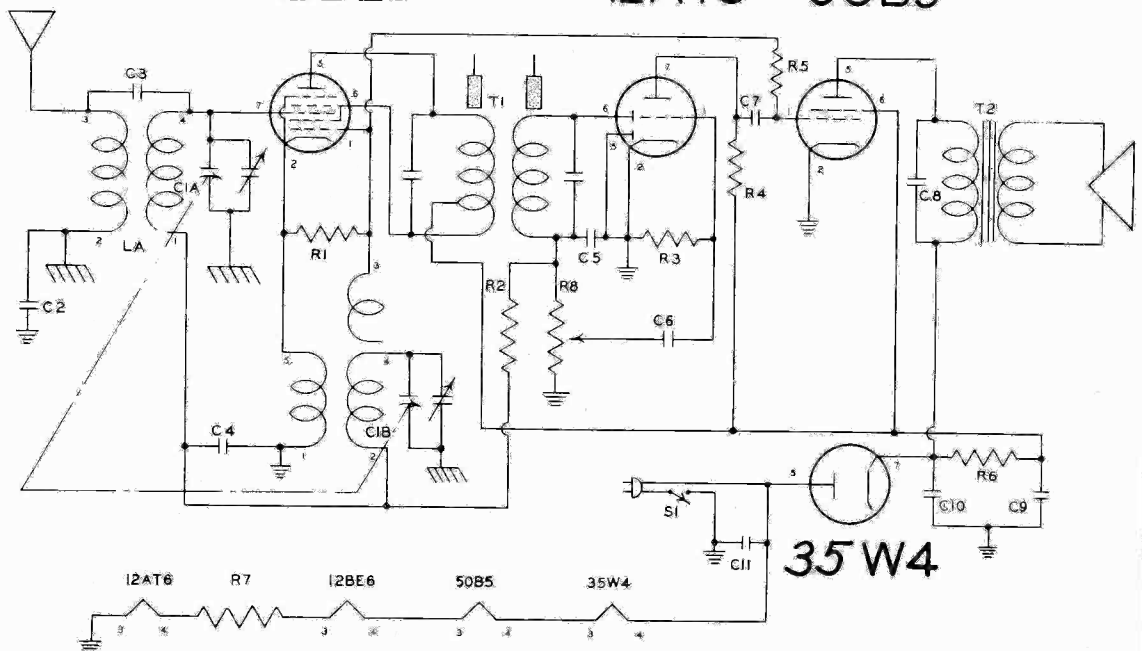
| SYMBOL | DESCRIPTION | VALUE | RATING |
|---------|--------------------|------------|----------|
| C1A-C1B | Condenser, 2 gang | .05 MFD | 200 volt |
| C2, C4 | Condenser, paper | 5 MMFD | 500 volt |
| C3 | Condenser, ceramic | 100 MMFD | 500 volt |
| C5 | Condenser, mica | .002 MFD | 600 volt |
| C6 | Condenser, paper | .005 MFD | 600 volt |
| C7, C8 | Condenser, paper | 20 MFD | 150 volt |
| C9 | Electrolytic | 40 MFD | 150 volt |
| C10 | Electrolytic | .05 MFD | 400 volt |
| C11 | Condenser, paper | 22K ohm | 1/2 watt |
| R1 | Resistor | 2.2 megohm | 1/2 watt |
| R2 | Resistor | 10 megohm | 1/2 watt |
| R3 | Resistor | 220K ohm | 1/2 watt |
| R4 | Resistor | 330K ohm | 1/2 watt |
| R5 | Resistor | 2200 ohm | 1/2 watt |
| R6 | Resistor | 2200 ohm | 1/2 watt |
| R7 | Resistor | 1 megohm | 1/2 watt |
| R8 | Volume control | | |



12BE6

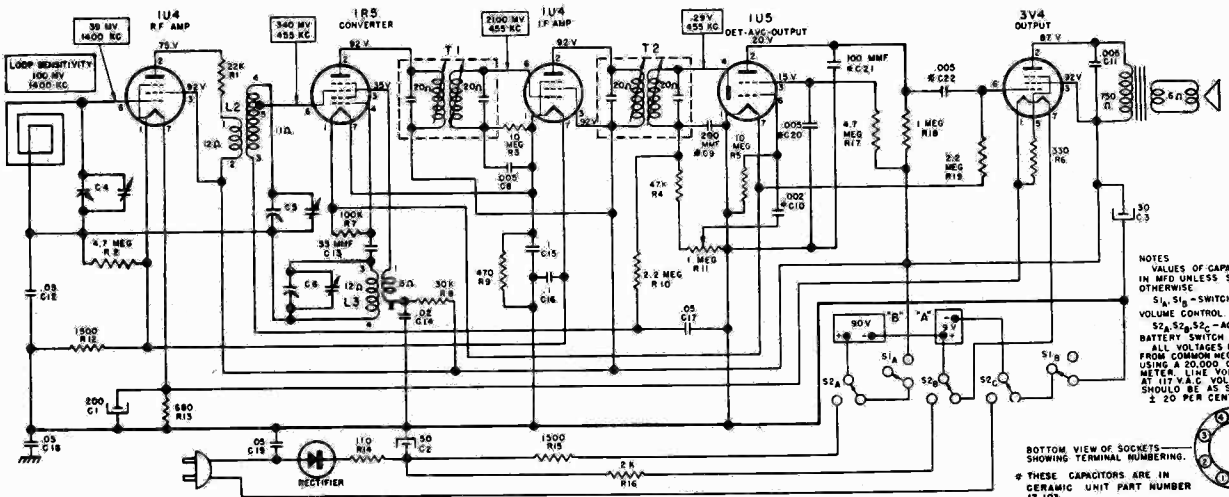
12AT6

50B5



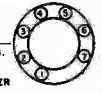
MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

CORONADO RADIO MODEL 05RA4-43-9876A

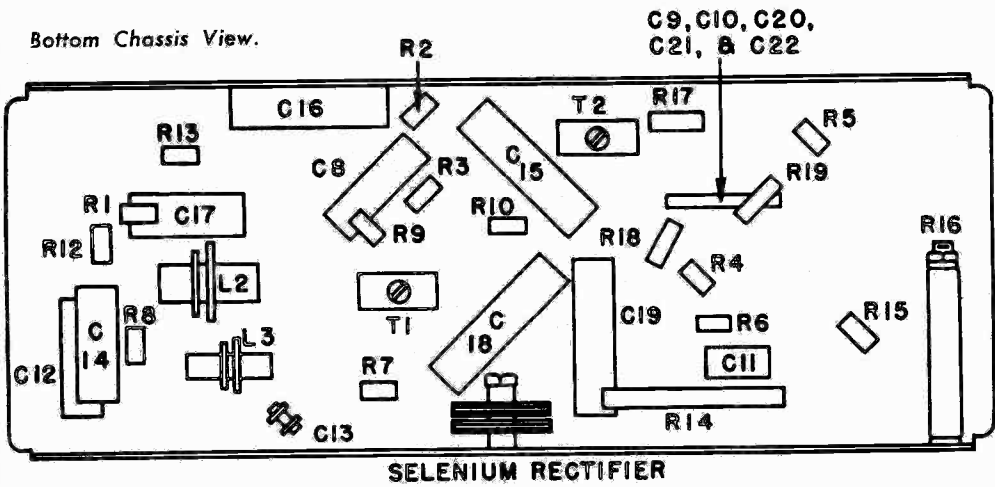


NOTES
VALUES OF CAPACITORS
IN MFD UNLESS SHOWN
OTHERWISE
S₁, S₁B - SWITCH ON
VOLUME CONTROL
S₂, S₂B, S₂C - AC/DC &
BATTERY SWITCH
ALL VOLTAGES MEASURED
FROM COMMON NEGATIVE
USING A 20,000 OHM-VOLT
METER. LINE VOLTAGE SET
AT 117 V.A.C. VOLTAGES
SHOULD BE AS SHOWN
± 2% PER CENT

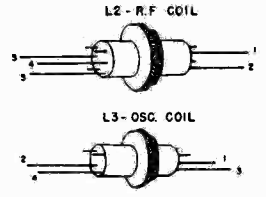
BOTTOM VIEW OF SOCKETS
SHOWING TERMINAL NUMBERING.
* THESE CAPACITORS ARE IN
CERAMIC UNIT PART NUMBER
17-103.



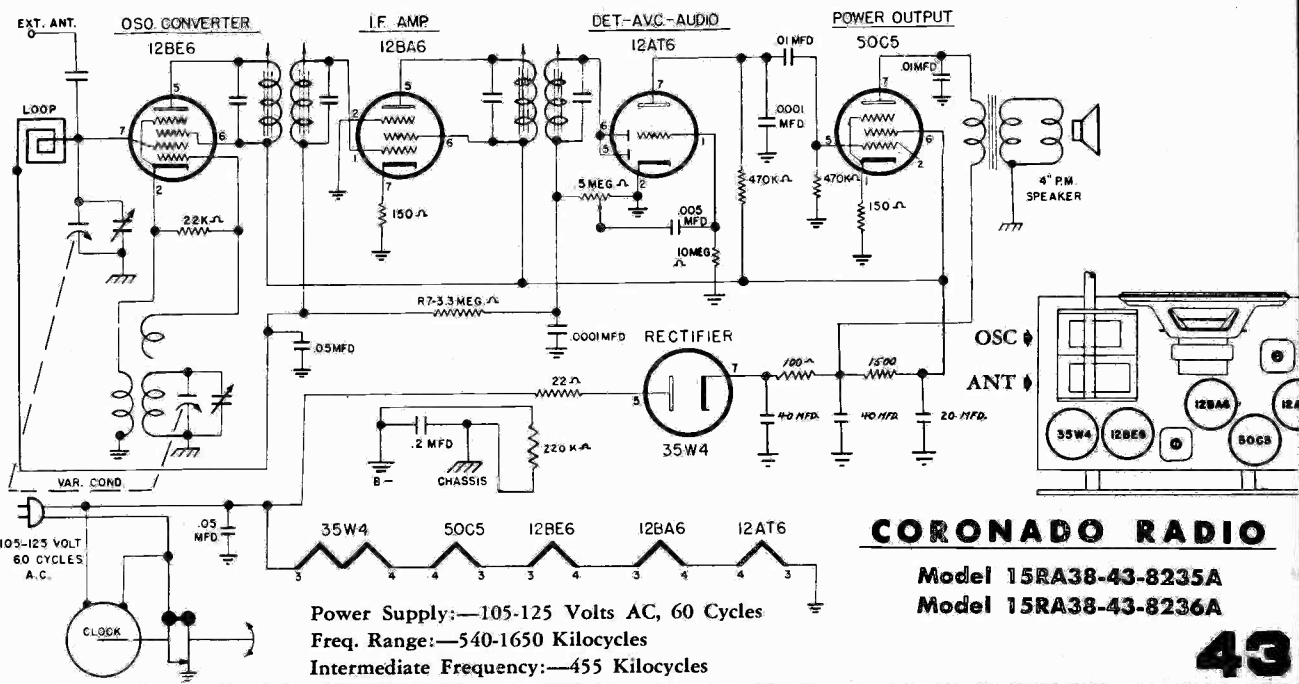
Bottom Chassis View.



Sets with the
suffix "B" in-
stead of "A",
use 1L4 tubes
instead of 1U4,
and a switch
operated by
power plug and
chassis socket.



SELENIUM RECTIFIER



CORONADO RADIO

Model 15RA38-43-8235A
Model 15RA38-43-8236A

Power Supply:—105-125 Volts AC, 60 Cycles
Freq. Range:—540-1650 Kilocycles
Intermediate Frequency:—455 Kilocycles

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

CORONADO RADIO MODELS 05RA33-43-8136A, 05RA33-43-8137A

HALLICRAFTER RADIO MODELS 5R11, 5R12, 5R13, 5R14

ALIGNMENT PROCEDURE

The alignment should be made with volume control fully on, and the output from the signal generator as low as possible, to prevent AVC action from interfering with proper alignment.

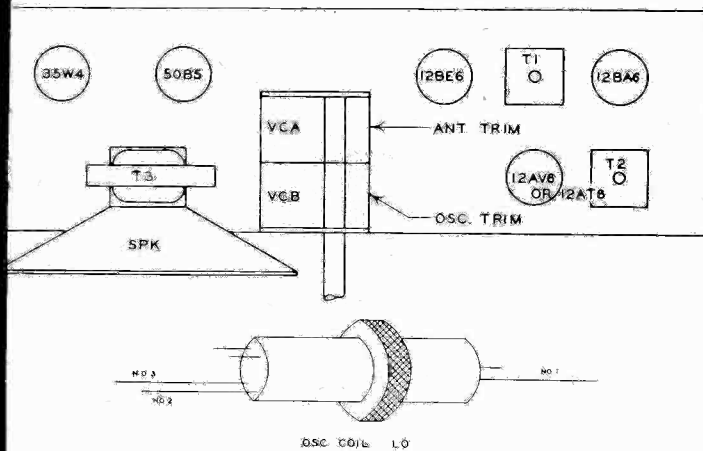
With the output meter connected across the voice coil of the speaker, the output meter reading for 50 milliwatts is 0.4 volts, using a signal which is modulated 400 c.p.s.

Adjust all trimmers for maximum output. Repeat the alignment procedure given below as a final check.

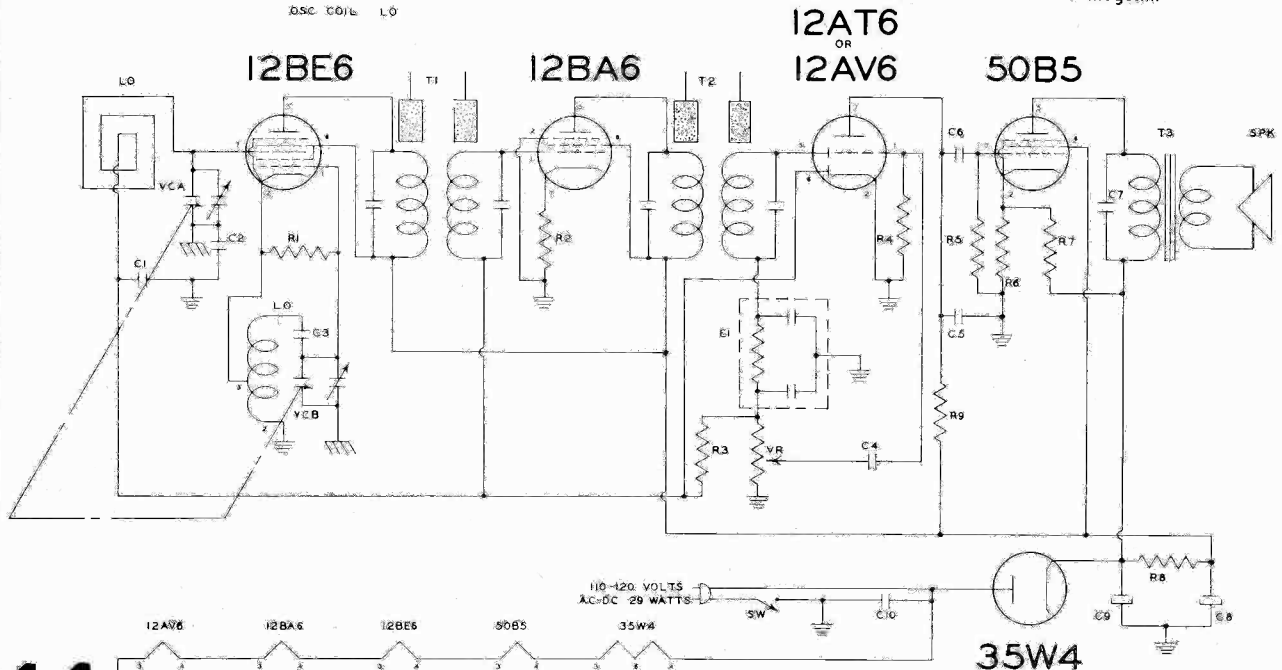
CAUTION: This is an AC/DC receiver, and when aligning the set it is necessary to isolate the signal generator or the receiver from the line by use of a transformer, or to place a .2 MFD condenser in each test lead of the signal generator.

| Frequency | SIGNAL GENERATOR Dummy Antenna | Connection to Radio | POSITION OF VARIABLE | ADJUST FOR MAXIMUM OUTPUT |
|-----------|--------------------------------------|-------------------------|----------------------------|---------------------------------|
| 455 KC | .1 MFD | 12BE6 Grid Stator VCA | Fully Open | T1 & T2 |
| 1625 KC | | 12BE6 Grid Stator VCA | Fully Open | VCB Oscillator |
| 1400 KC | .1 MFD | Loosely Coupled to Loop | Tune in Signal Generator | VCA Antenna |

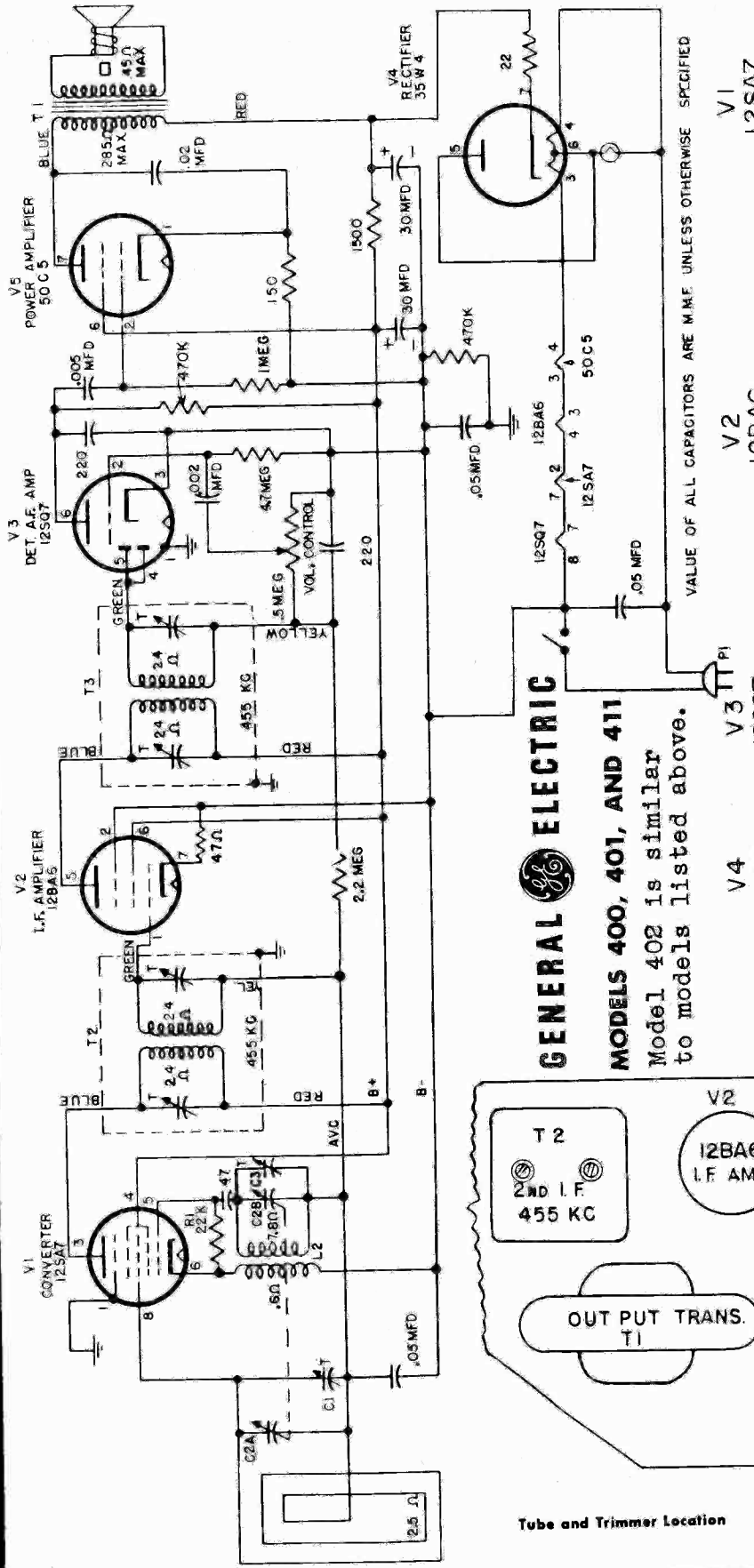
Connect low side of signal generator to common negative.



| SYMBOL | DESCRIPTION | VALUE | RATING |
|----------|-------------------------|--------------------|-----------|
| VCA-VCB | Condenser, 2 gang | | |
| C1 | Condenser, paper | .05 MFD | 200 volts |
| C2 | Condenser, paper | .1 MFD | 200 volts |
| C3 | Condenser, paper | .02 MFD | 600 volts |
| C4-C6-C7 | Condenser, paper | .005 MFD | 600 volts |
| C5 | Condenser, mica | 250 MMFD | 500 volts |
| C8 | Condenser, electrolytic | 20 MFD | 150 volts |
| C9 | Condenser, electrolytic | 40 MFD | 150 volts |
| CT0 | Condenser, paper | .05 MFD | 400 volts |
| R1 | Resistor | 22K ohm | 1/2 watt |
| R2 | Resistor | 390 ohm | 1/2 watt |
| R3 | Resistor | 1 megohm | 1/2 watt |
| R4 | Resistor | 10 megohm | 1/2 watt |
| R5-R9 | Resistor | 470K ohm | 1/2 watt |
| R6 | Resistor | 120 ohm | 1/2 watt |
| R7 | Resistor | 10K ohm | 1 watt |
| R8 | Resistor | 1000 ohm | 1 watt |
| E1 | Diode filter unit | 2X100 MMFD-47K ohm | |
| VR | Volume control | 1 megohm | |

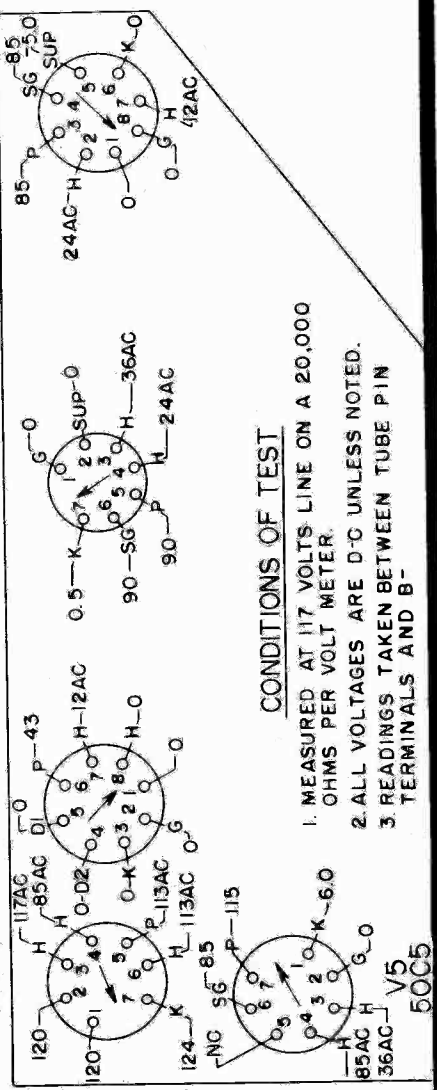


MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

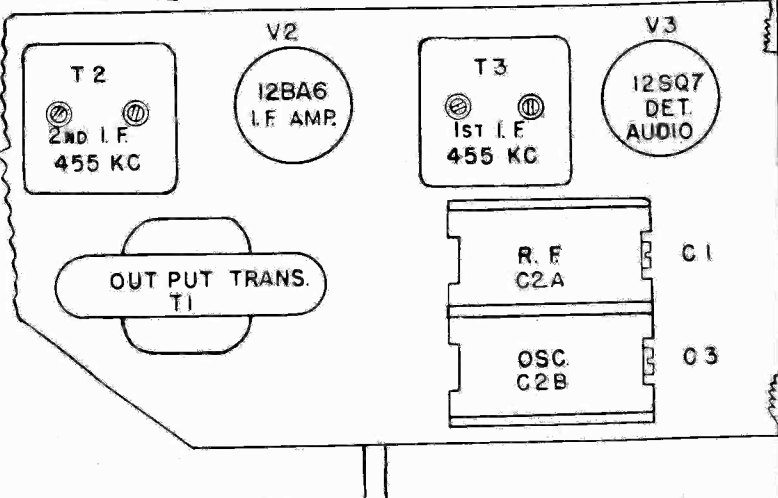


GENERAL ELECTRIC
MODELS 400, 401, AND 411
 Model 402 is similar to models listed above.

VALUE OF ALL CAPACITORS ARE M.M.F. UNLESS OTHERWISE SPECIFIED



CONDITIONS OF TEST
 1. MEASURED AT 117 VOLTS LINE ON A 20,000 OHMS PER VOLT METER.
 2. ALL VOLTAGES ARE D-C UNLESS NOTED.
 3. READINGS TAKEN BETWEEN TUBE PIN TERMINALS AND B-



Tube and Trimmer Location

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

GENERAL ELECTRIC

RADIO

SERVICE DATA

MODELS 404, 405 and 410

ALIGNMENT CHART

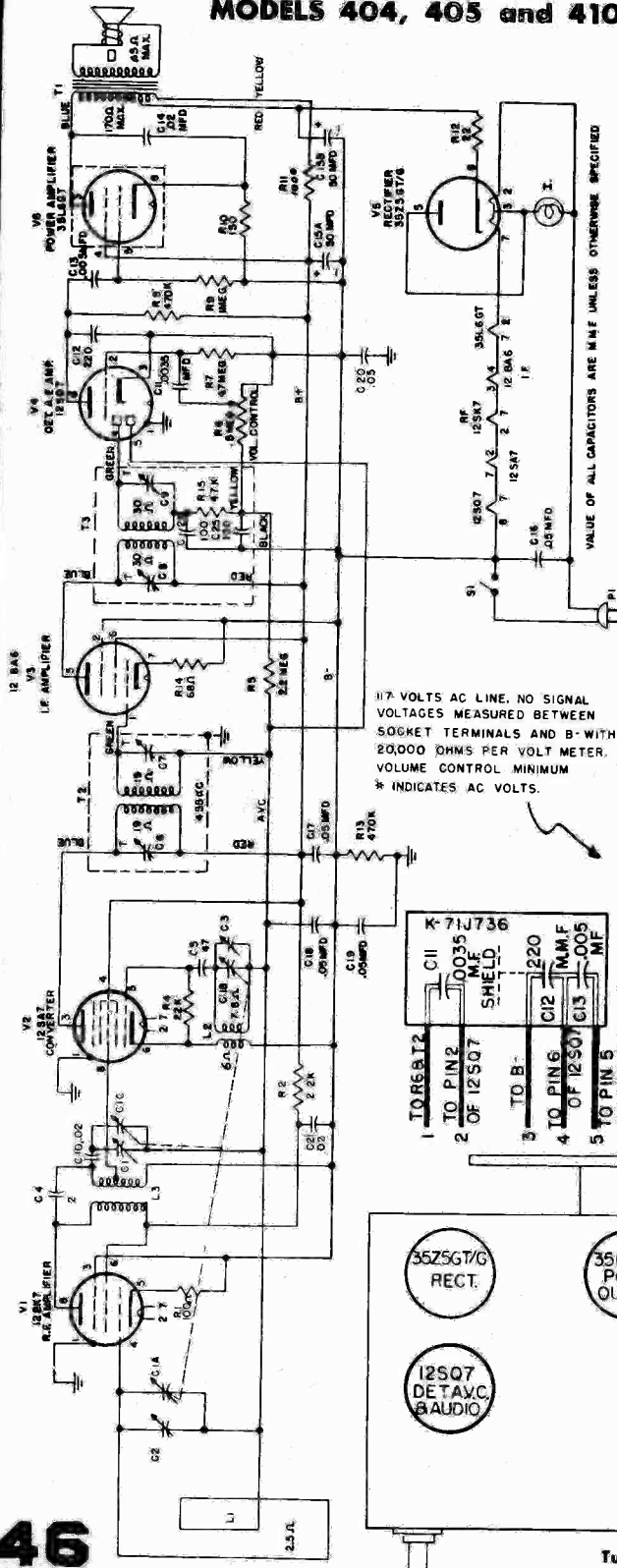
| Step | Connect Test Oscillator to: | Test Osc. Setting | Radio Dial Setting | Adjust Trimmers for Maximum |
|------|-----------------------------|-------------------|--------------------|-----------------------------|
|------|-----------------------------|-------------------|--------------------|-----------------------------|

I-F ALIGNMENT

| | | | | |
|---|---|--------|-------|---|
| 1 | V3, 12BA6 grid (Pin 1), in series with 0.5 mfd. | 455 KC | | C9 and C8 of second i-f transformer T3. |
| 2 | V2, 12SA7 grid (Pin 8), in series with .05 mfd. | | | C7 and C6 of first i-f transformer, T2 |
| 3 | | | | Recheck adjustment of C9, C8, C7, C6, for maximum |

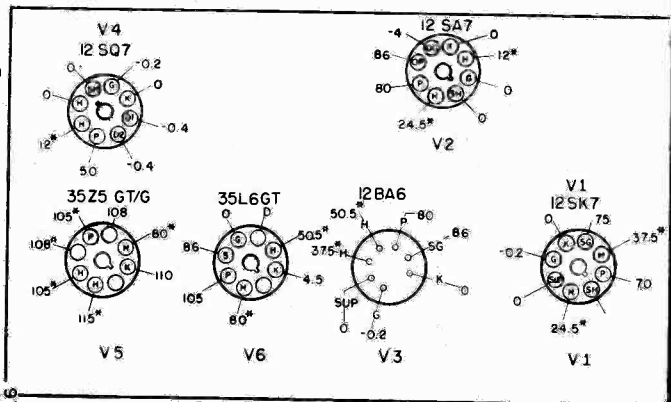
R-F ALIGNMENT

| | | | | |
|---|------------------------------------|---------|---------------------------|-------------------------------------|
| 4 | Inductively coupled to radio loop. | 1620 KC | Minimum capacity C1A, C1B | C3, oscillator trimmer |
| 5 | | 1500 KC | Tune for Maximum | C1, r-f trimmer C2, ant. trimmer |

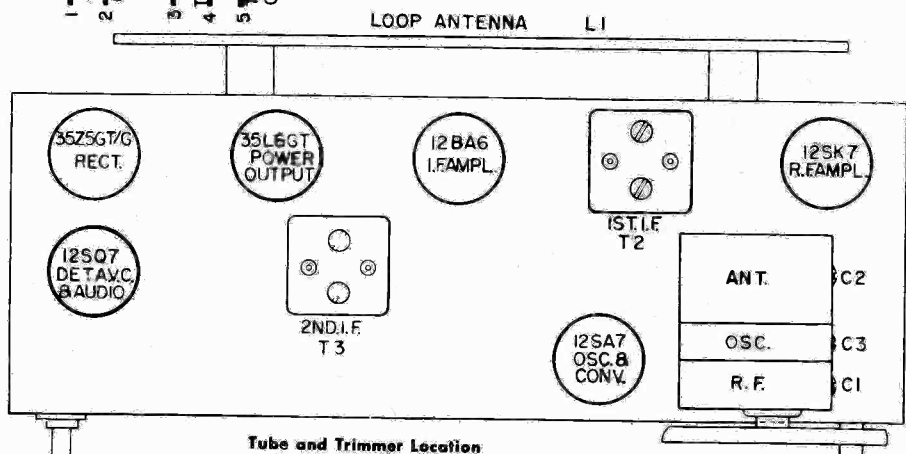


VALUE OF ALL CAPACITORS ARE IN MF UNLESS OTHERWISE SPECIFIED

FRONT OF CHASSIS



BOTTOM VIEW OF CHASSIS

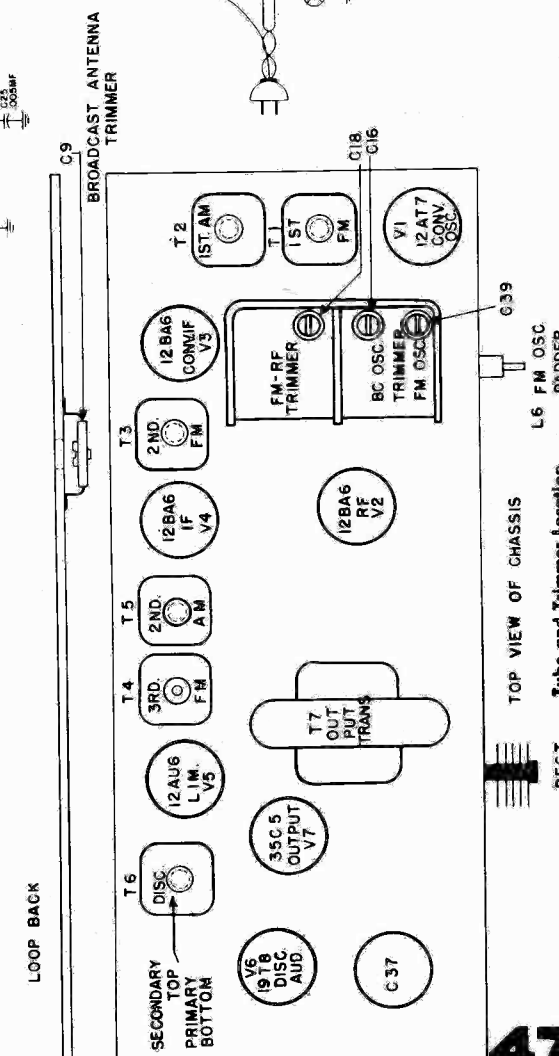
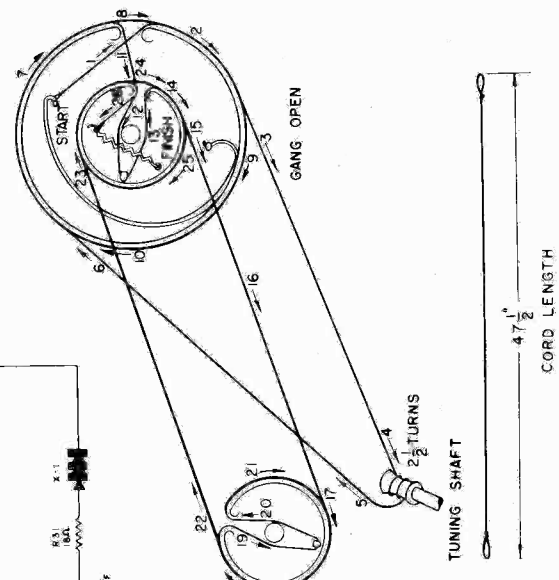
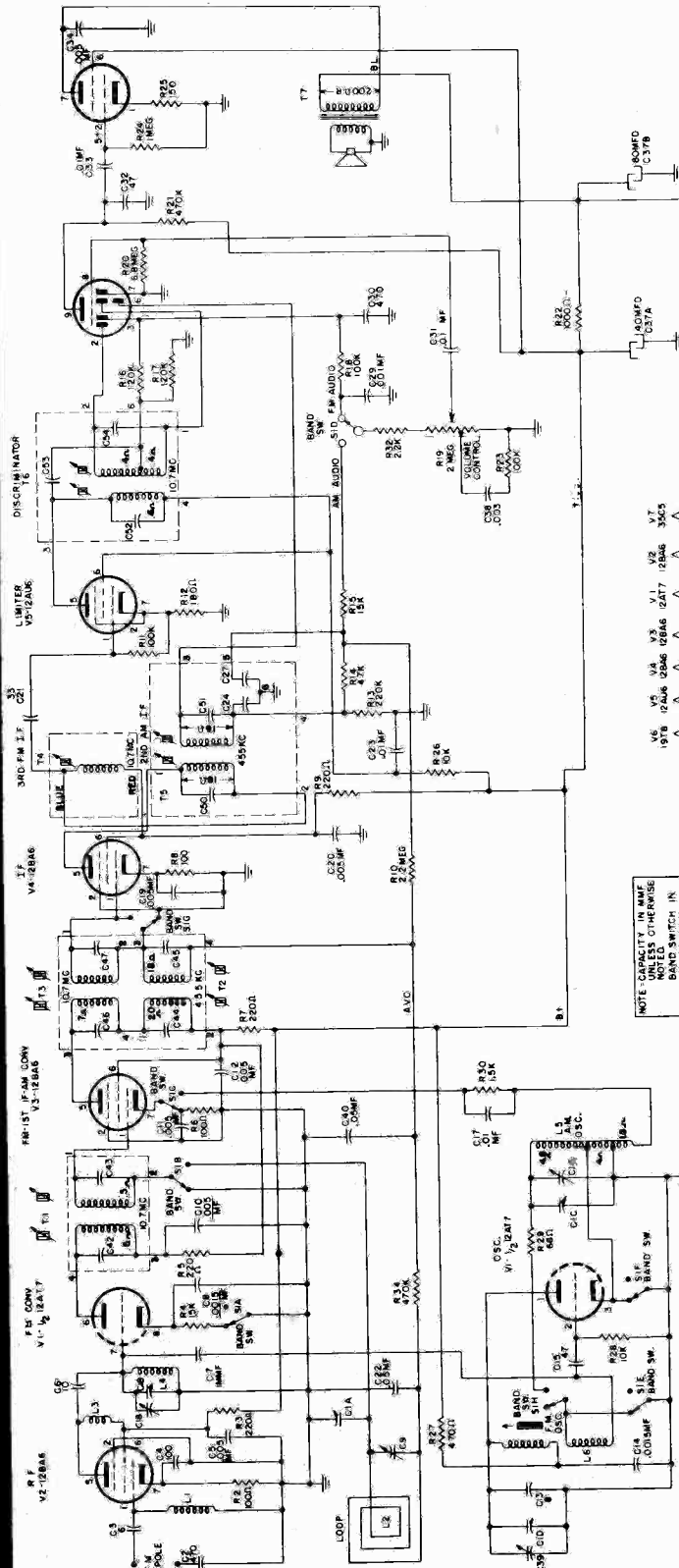


Tube and Trimmer Location

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

GENERAL ELECTRIC

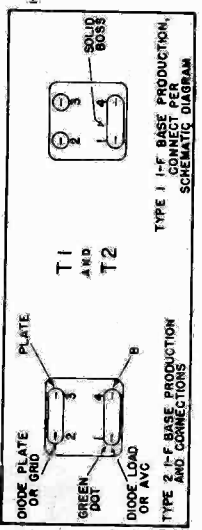
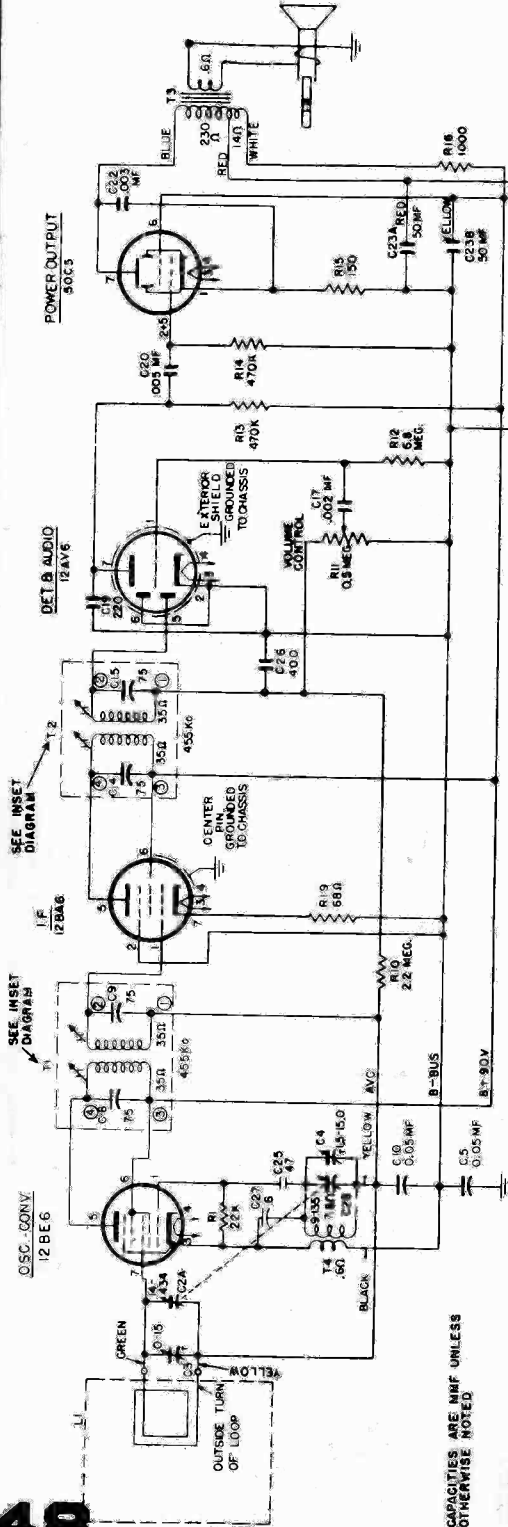
MODEL 408



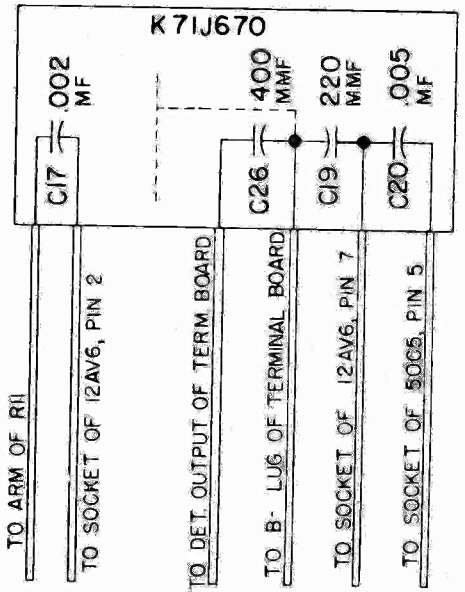
MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

GENERAL ELECTRIC

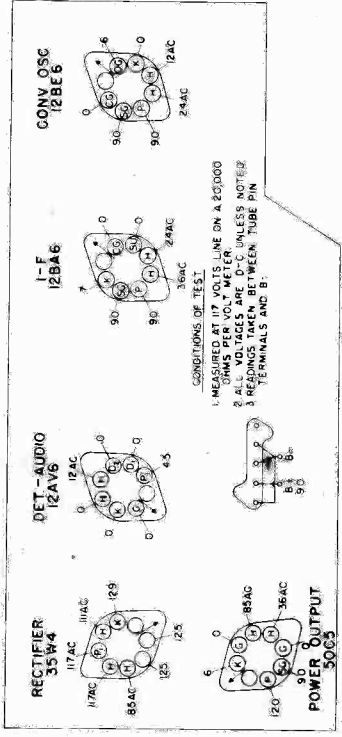
MODELS 510F, 511F, 512F, 513F, 515F, 516F, 517F, 518F, 521F, AND 522F



The lead identification for the four-section ceramic capacitor RCW-3048 (K71J670) can be observed from the illustration of Figure 2.



Capacitor RCW-3013



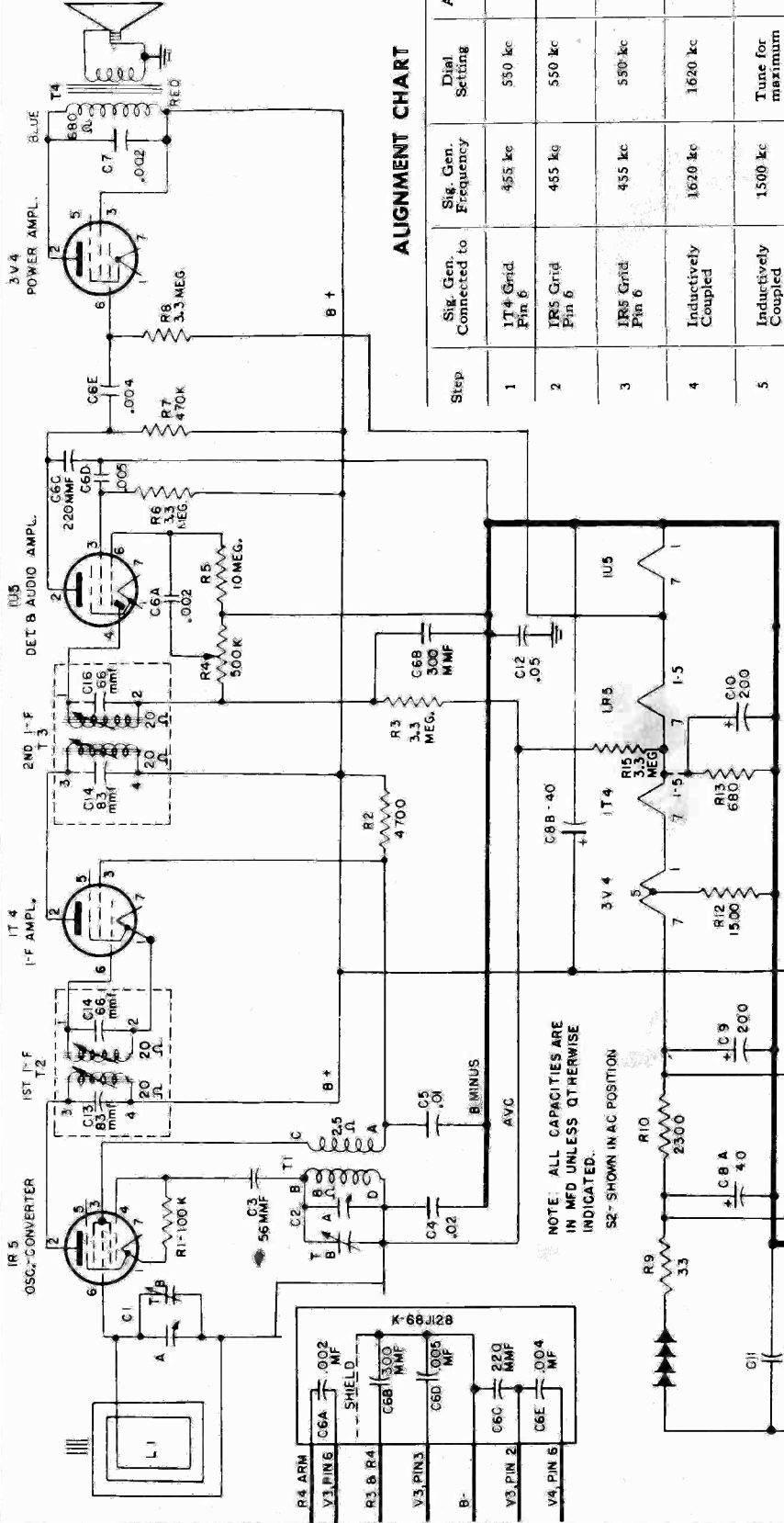
VIEWED FROM BOTTOM OF CHASSIS

General Electric models as listed in the upper left hand corner, but without the suffix "F", use an identical circuit but employ 12SA7 instead of 12BE6, and 12SQ7 for 12AV6, and differ in physical assembly.

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO

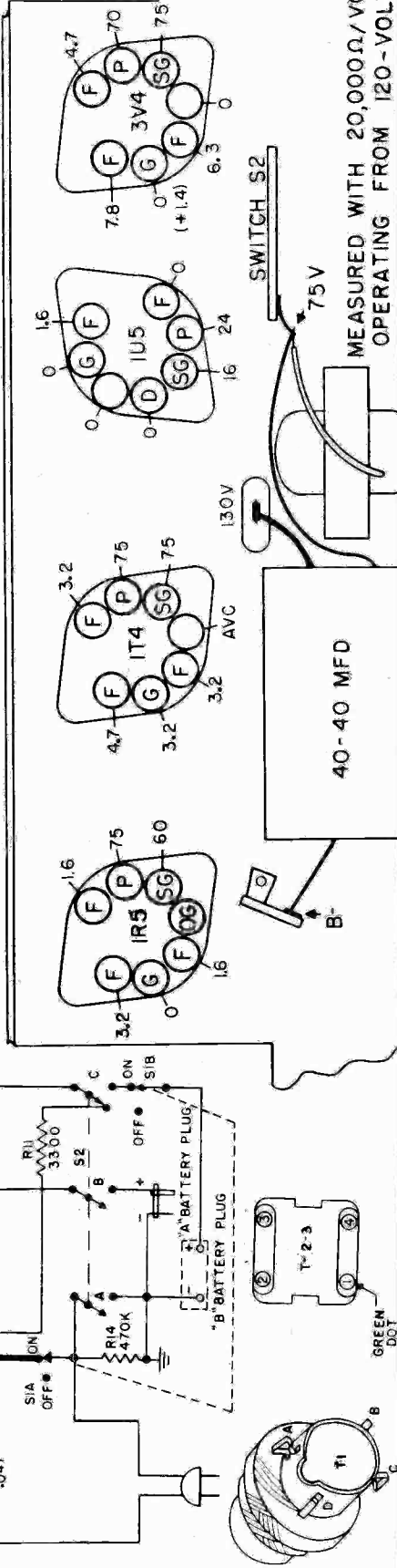
GENERAL ELECTRIC

Models 605 and 606



ALIGNMENT CHART

| Step | Sig. Gen. Connected to | Sig. Gen. Frequency | Dial Setting | Adjust For Max. Output |
|------|------------------------|---------------------|------------------|------------------------|
| 1 | 1T4 Grid, Pin 6 | 455 kc | 550 kc | Cores of I-F Trans. T3 |
| 2 | 1R5 Grid, Pin 6 | 455 kc | 550 kc | Cores of I-F Trans. T2 |
| 3 | 1R5 Grid, Pin 6 | 455 kc | 550 kc | Re-adjust T2 and T3 |
| 4 | Inductively Coupled | 1620 kc | 1620 kc | Osc. trimmer C2B |
| 5 | Inductively Coupled | 1500 kc | Tune for maximum | R-F trimmer C1B |



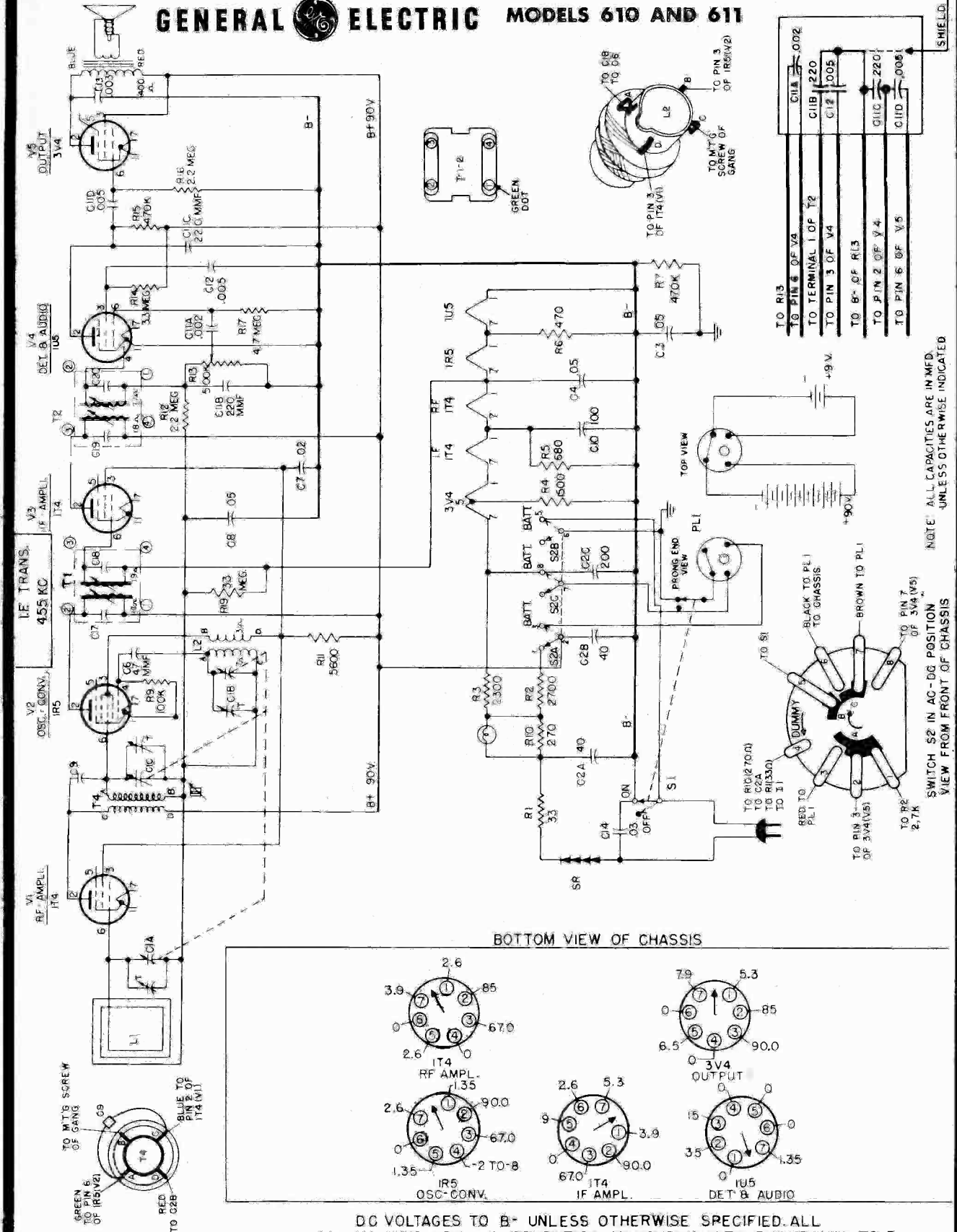
NOTE: ALL CAPACITIES ARE IN MFD UNLESS OTHERWISE INDICATED.

S2 - SHOWN IN AC POSITION

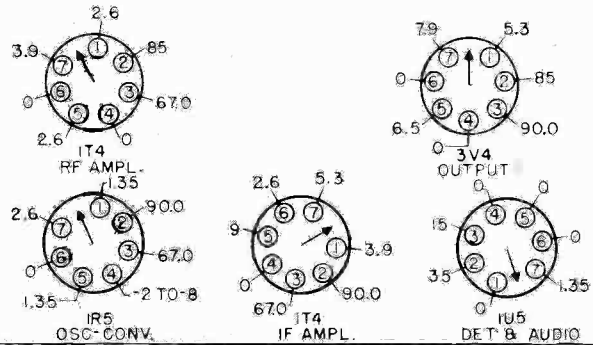
MEASURED WITH 20,000Ω/VOLT OPERATING FROM 120-VOLTS

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

GENERAL ELECTRIC MODELS 610 AND 611



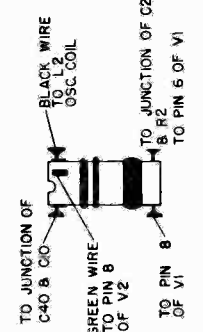
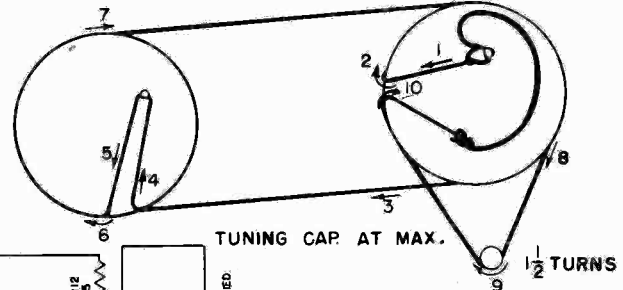
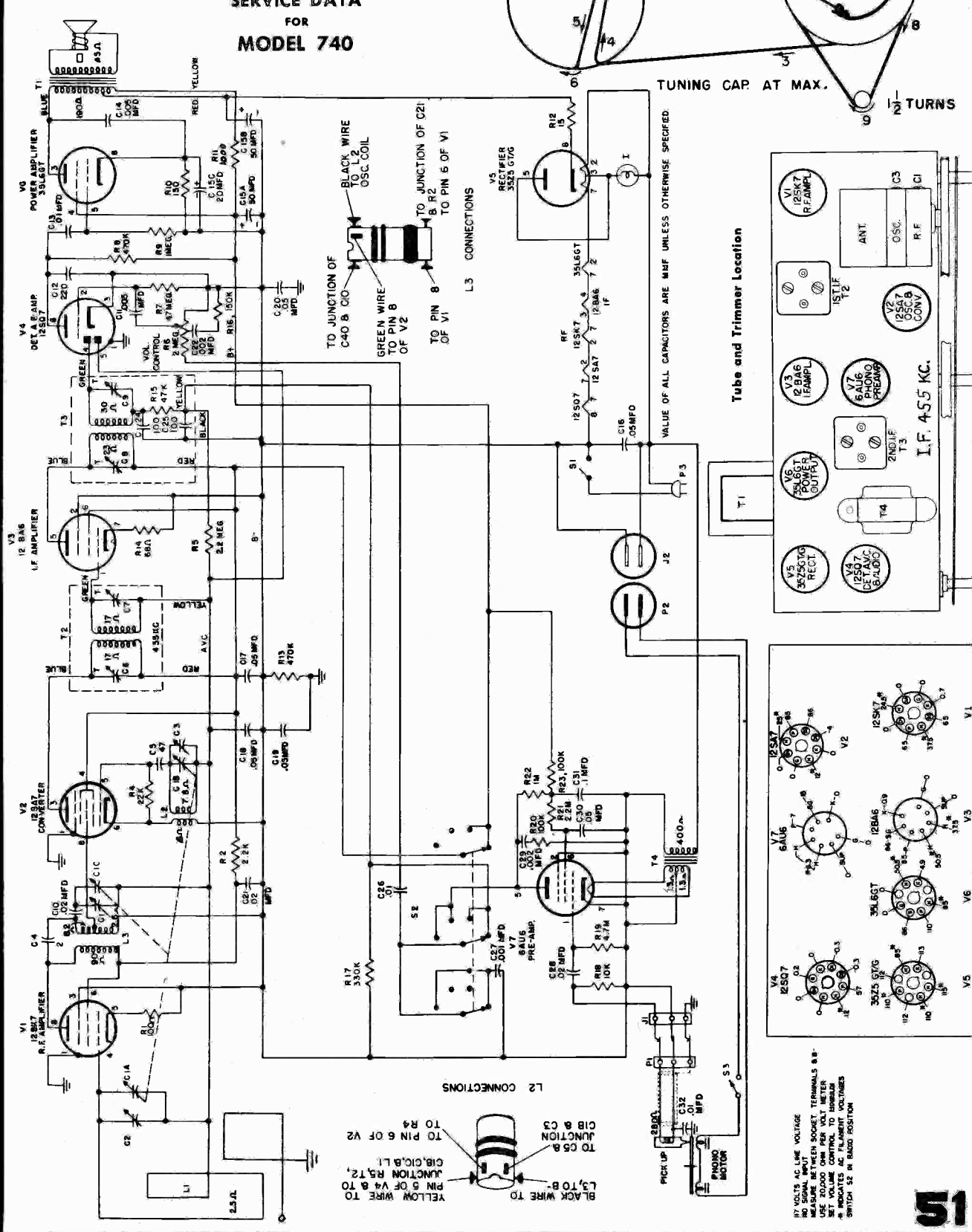
BOTTOM VIEW OF CHASSIS



MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

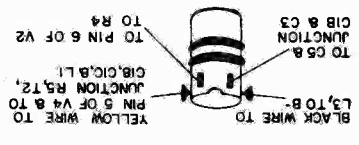
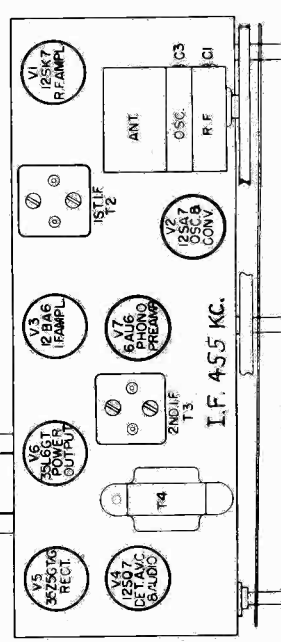
GENERAL ELECTRIC

RADIO SERVICE DATA FOR MODEL 740



VALUE OF ALL CAPACITORS ARE MUF UNLESS OTHERWISE SPECIFIED.

Tube and Trimmer Location

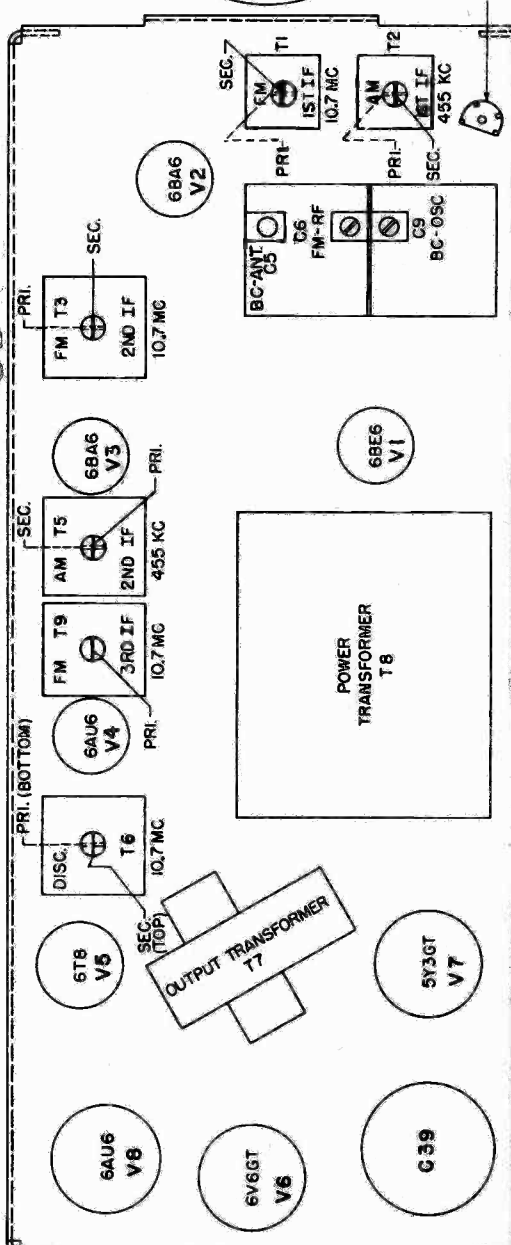
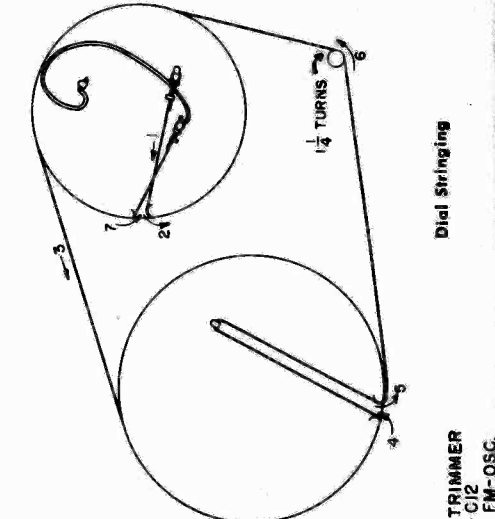
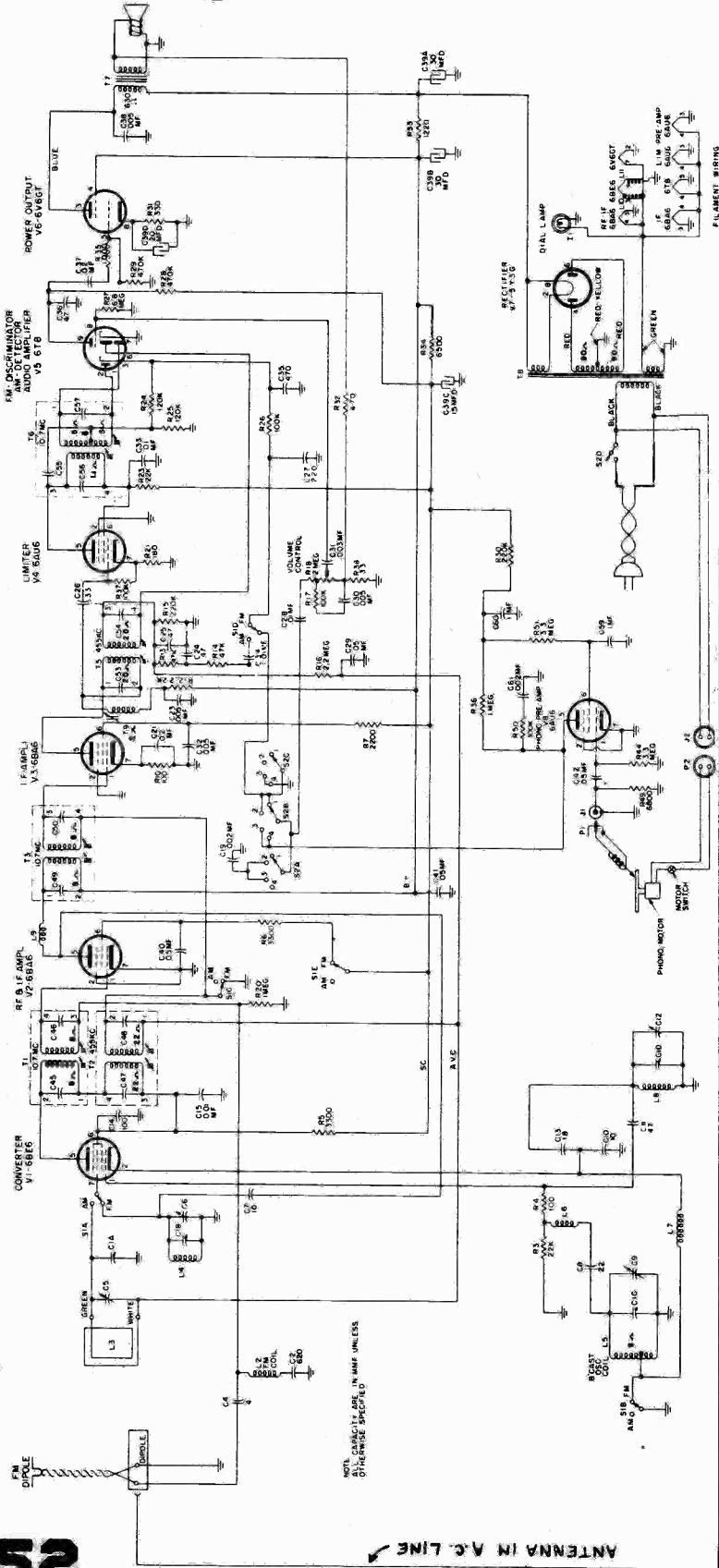


117 VOLTS AC LINE VOLTAGE
MEASURE BETWEEN SOCKET TERMINALS 8-9
USE 20,000 OHM PER VOLT METER
SET VOLUME CONTROL TO NORMAL
SET TUNING CONTROL TO CENTER
SWITCH S2 AT RADIO POSITION

Schematic Change. On later production receivers, the pilot lamp is connected across the secondary of T4 — instead of pins 2-3 of the Type 3525 tube (V5). Pin 5 of this tube should be connected to pin 2 instead of pin 3.

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

GENERAL ELECTRIC MODELS 752-753



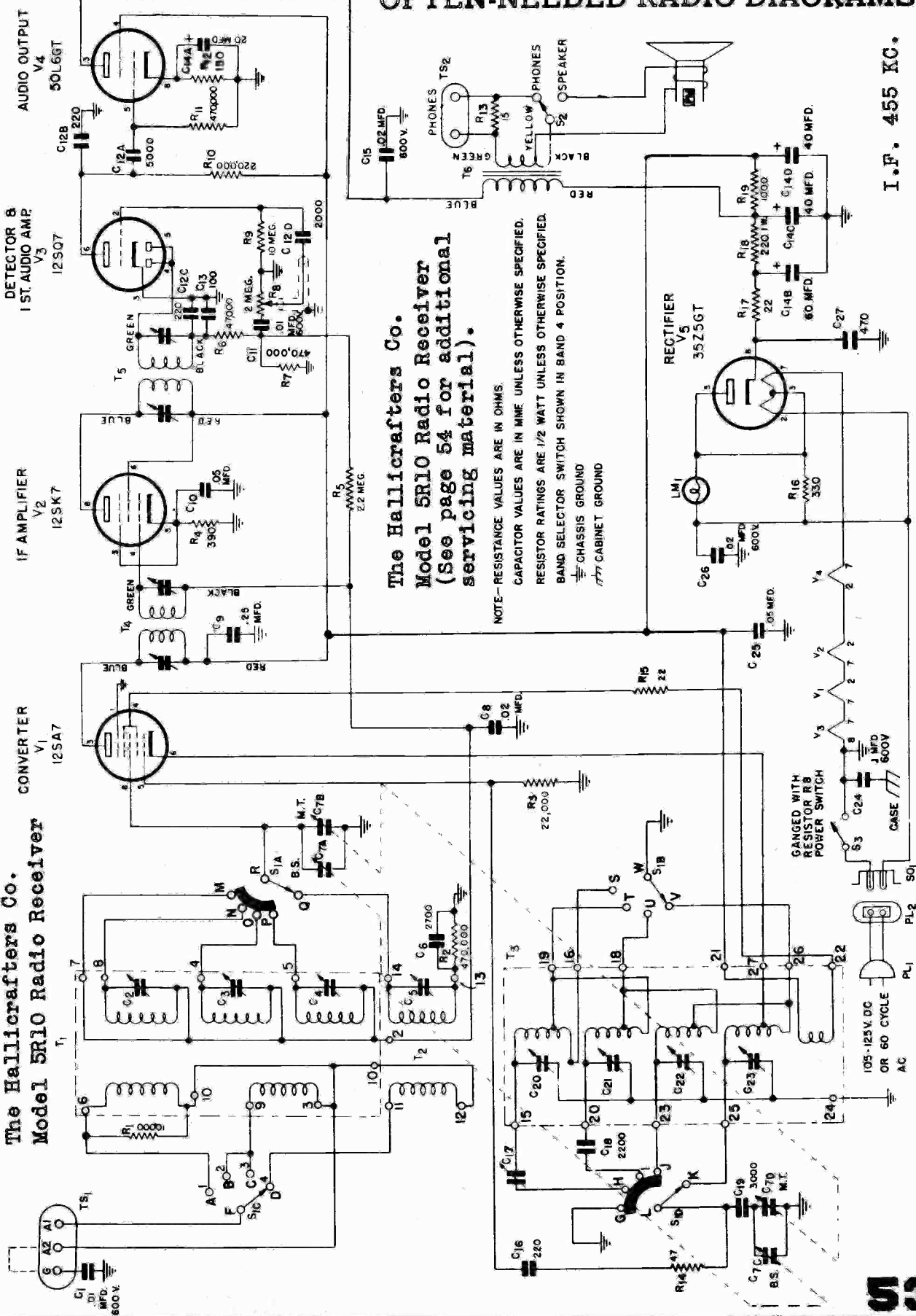
52

ANTENNA IN A.C. LINE

NOTE: ALL CAPACITORS ARE IN MFD UNLESS OTHERWISE SPECIFIED.

OFTEN-NEEDED RADIO DIAGRAMS

The Hallicrafters Co. Model 5R10 Radio Receiver



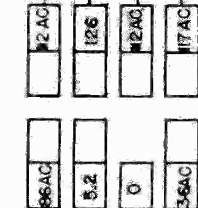
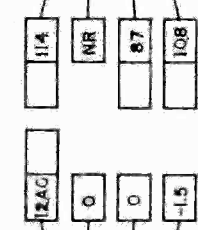
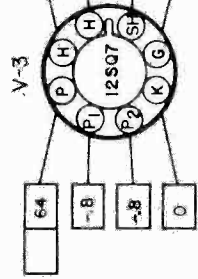
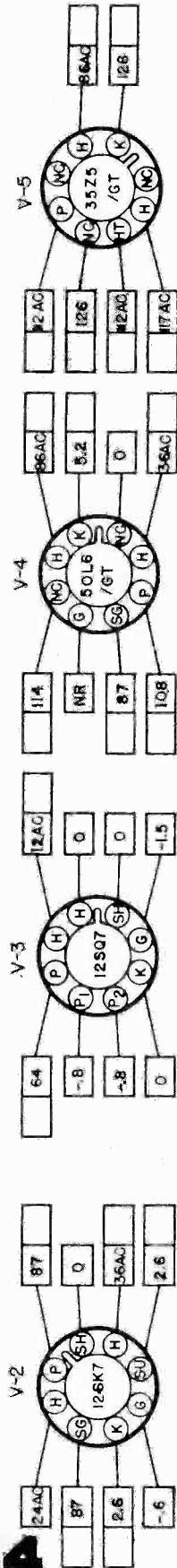
The Hallicrafters Co.
Model 5R10 Radio Receiver
(See page 54 for additional servicing material).

NOTE—RESISTANCE VALUES ARE IN OHMS.
CAPACITOR RATINGS ARE IN MME UNLESS OTHERWISE SPECIFIED.
RESISTOR RATINGS ARE 1/2 WATT UNLESS OTHERWISE SPECIFIED.
BAND SELECTOR SWITCH SHOWN IN BAND 4 POSITION.
⊥ CHASSIS GROUND
⊥ CHASSIS CABINET GROUND

I.F. 455 KC.

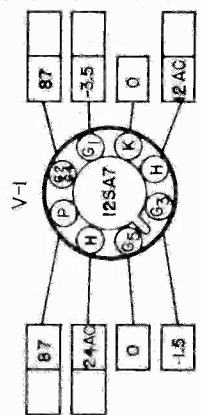
MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

54



the hallicrafters co.

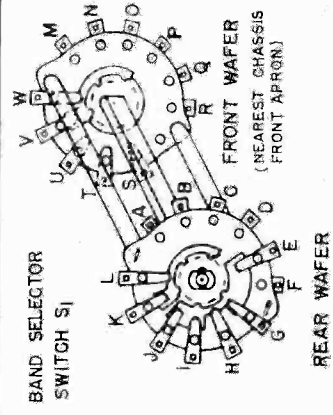
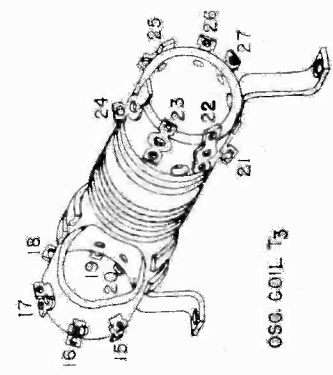
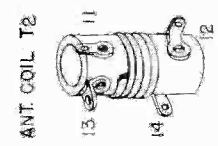
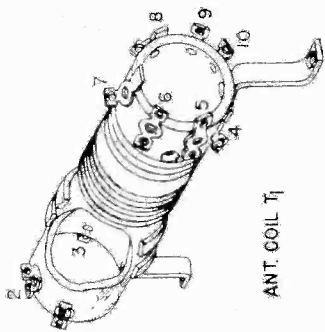
1. SOCKET VIEWS ARE BOTTOM VIEWS.
2. ALL VOLTAGES ARE MEASURED BETWEEN TUBE SOCKET TERMINALS & CHASSIS, WITH ZERO SIGNAL INPUT.
3. LINE VOLTAGE—117 V. AC. AC VOLTAGES WILL BE DC VOLTAGES WHEN OPERATING FROM A DC SOURCE.
4. ALL VOLTAGES SHOWN ARE DC UNLESS OTHERWISE SPECIFIED.
5. DC VOLTAGES SHOWN WERE MEASURED WITH A VACUUM TUBE VOLTMETER.
6. "NC" NO CONNECTION. (VOLTAGES SHOWN FOR THIS TERMINAL ONLY WHEN TERMINALS ARE USED AS A TIE LUG.)
7. "NR" NOT READABLE. (READING GENERALLY MEANINGLESS)
8. SPACE PROVIDED FOR SERVICE METER READINGS
9. BAND SELECTOR SWITCH AT BAND "4" POSITION.



FRONT APRON

BOTTOM VIEW OF CHASSIS

I.F. 455 KC.



The Hallicrafters Co.
Model 5R10
(Circuit on page 53)

| Band | Frequency Range |
|------|-------------------|
| 1 | 540 KC to 1650 KC |
| 2 | 1.65 MC to 5.1 MC |
| 3 | 5 MC to 14.5 MC |
| 4 | 13 MC to 31 MC |

NOTE: DIMENSIONS & PROPORTIONS SHOWN IN PICTORIAL VIEWS HAVE BEEN EXAGGERATED FOR CLARITY OF TERMINAL LUG LOCATION.

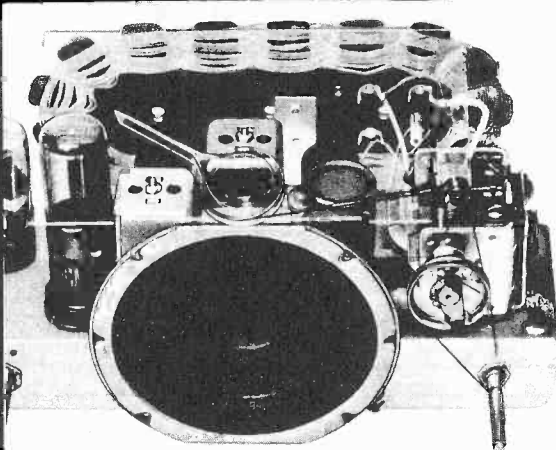
MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Hoffman

SERVICE DATA

RADIO CHASSIS 165

MODELS 204, 205



PARTS LIST

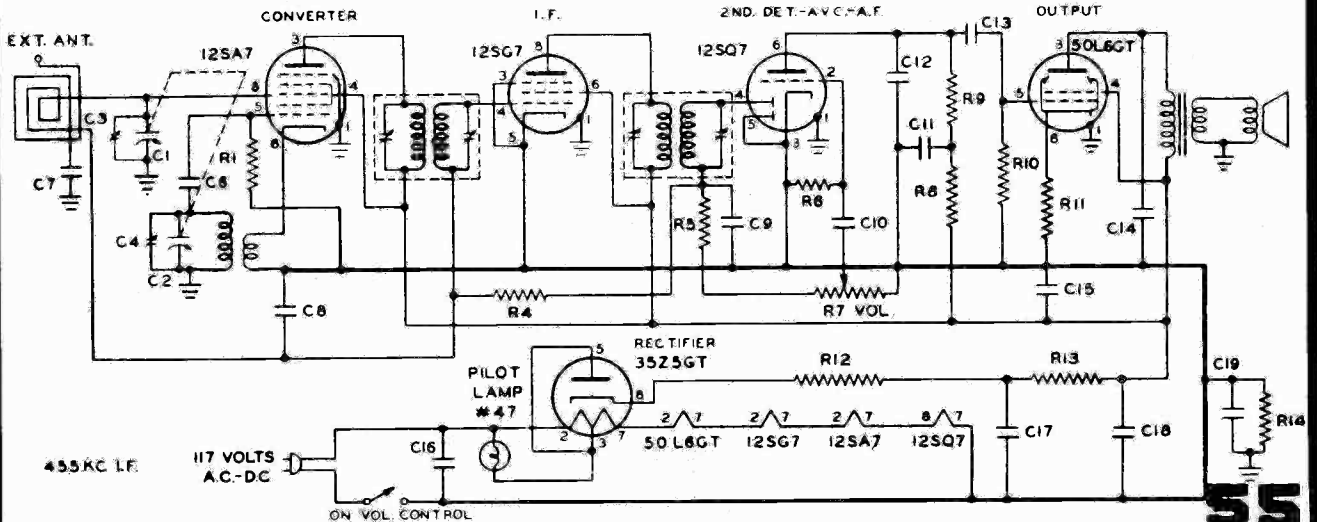
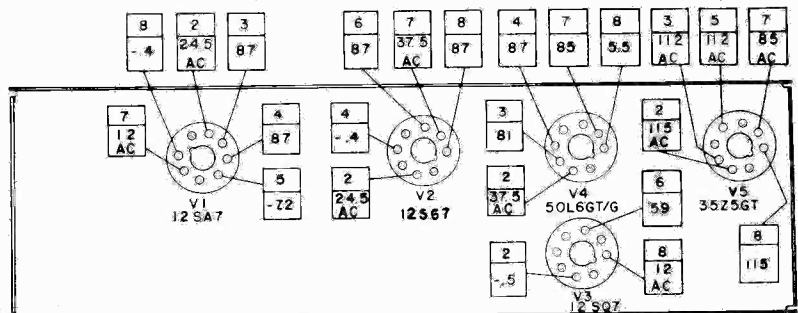
All values of capacity are microfarads unless otherwise noted.
All resistors are 1/2 watt composition type with values given in ohms unless otherwise specified.

| Symbol | Part No. | Value | Tolerance | Watts or Volts |
|------------------------------|-------------------------|------------------------------|-----------|----------------|
| C1 } C2 } C3 } C4 } | 4401 | { 0 - 388 mmf 0 - 180 mmf | | |
| C5 } | Part of 2 Gang Variable | | | |
| C5 } | Not used | | | |
| C6 | 4000 | 100 mmf | 20% | 600 |
| C7 | 4102 | .005 | | 200 |
| C8 | 4100 | .05 | | |
| C9 | 4001 | 270 mmf | 20% | |
| C10 | 4102 | .005 | | 600 |
| C11 | 4100 | .05 | | 200 |
| C12 | 4001 | 270 mmf | 20% | |
| C13 | 4102 | .005 | | 600 |
| C14 | 4106 | .02 | | 400 |
| C15 | 4100 | .05 | | 200 |
| C16 | 4101 | .05 | | 400 |
| C17 | | 50 | | 150 |
| C18 | 4201 | 30 | | 150 |
| C19 | 4121 | .1 | 20% | 400 |
| R1 | 4501 | 22K | 20% | |
| R2 | Not used | | | |
| R3 | Not used | | | |
| R4 | 4502 | 2.2 meg | 20% | |
| R5 | 4504 | 47K | 20% | |
| R6 | 4505 | 10 meg | 20% | |
| R7 | 4836 | 500K | | |
| R8 | 4511 | 100K | 20% | |
| R9 | 4500 | 220K | 20% | |
| R10 | 4506 | 470K | 20% | |
| R11 | 4510 | 150 | 20% | |
| R12 | 4508 | 47 | 20% | |
| R13 | 4700 | 500 | 10% | 5 W |
| R14 | 4506 | 470K | 20% | |

NOTES:

- The pin voltage readings are obtained with no signal input to receiver.
- D.C. voltages measured with 20,000 ohm/volt meter.
- A.C. voltages measured with 1,000 ohm/volt meter.
- All voltages measured with reference to B-.
- Live voltage 115V A.C.

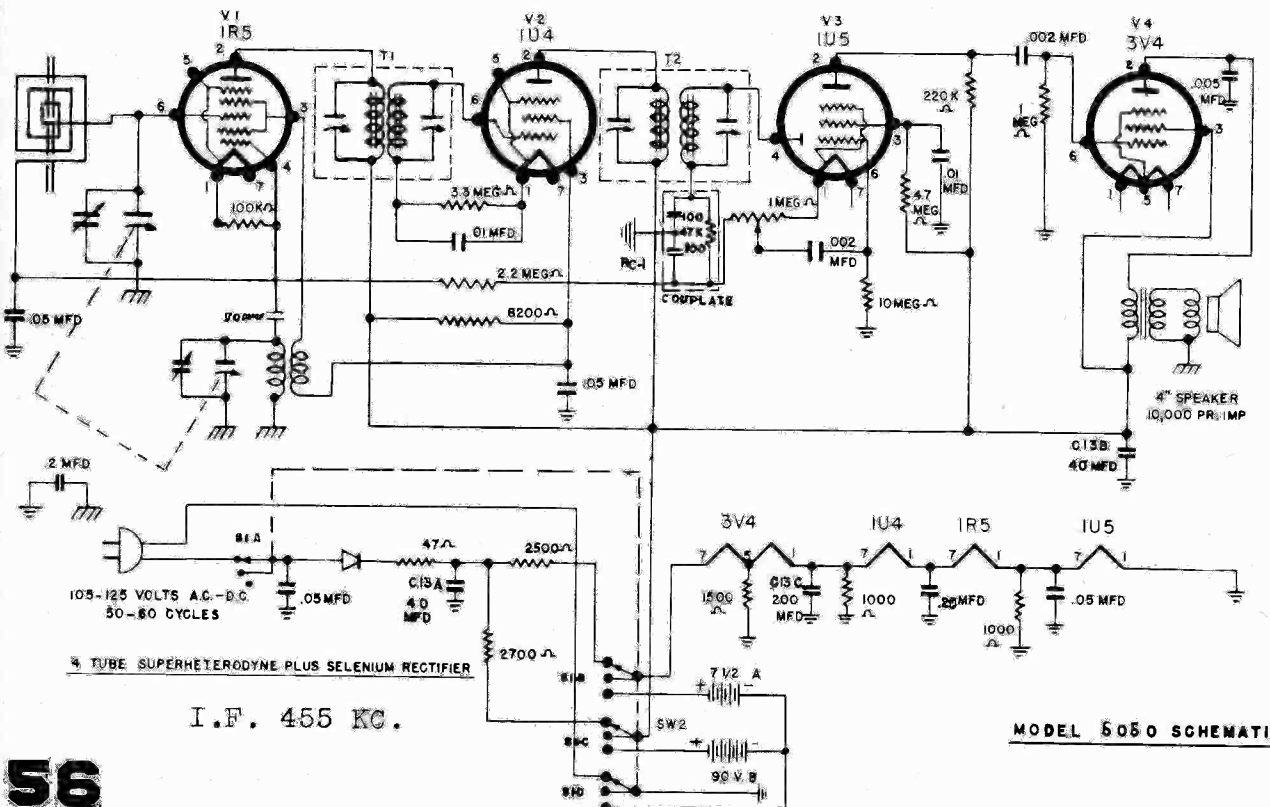
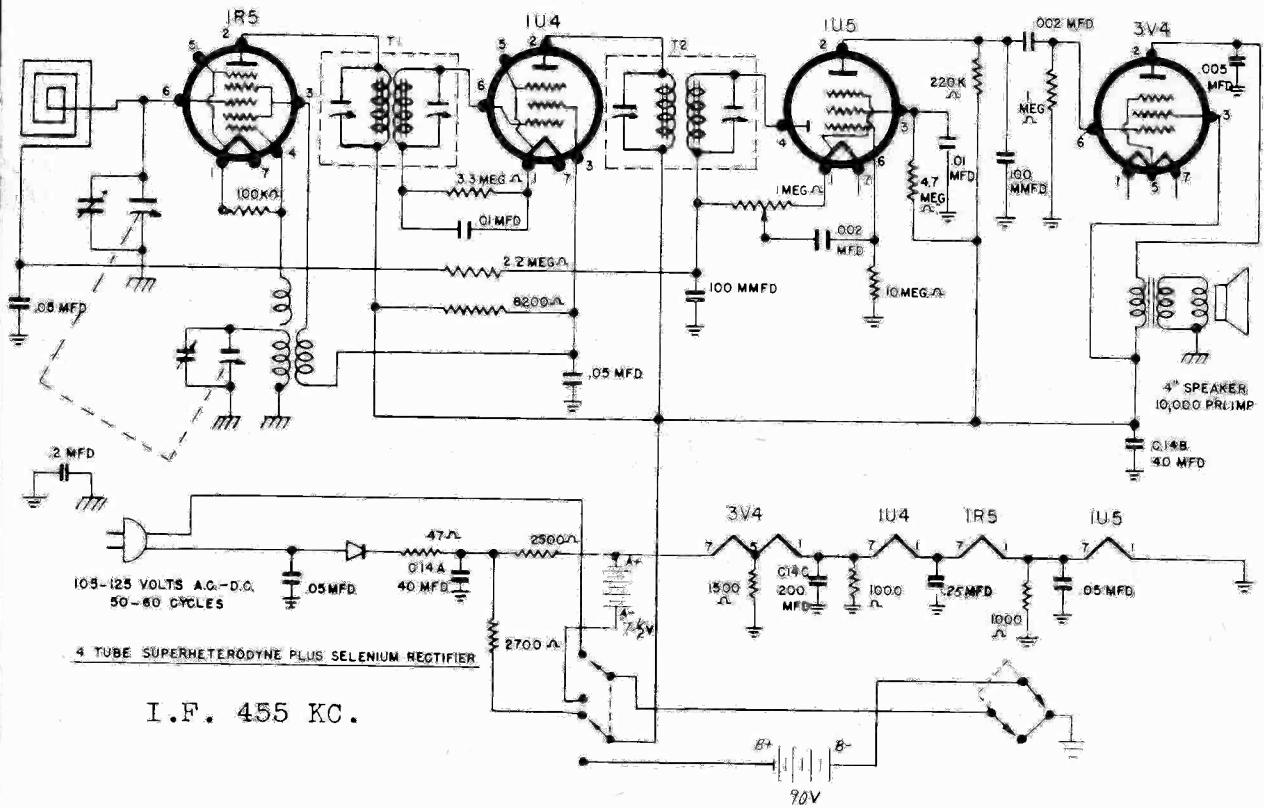
Pin Voltage Diagram



MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

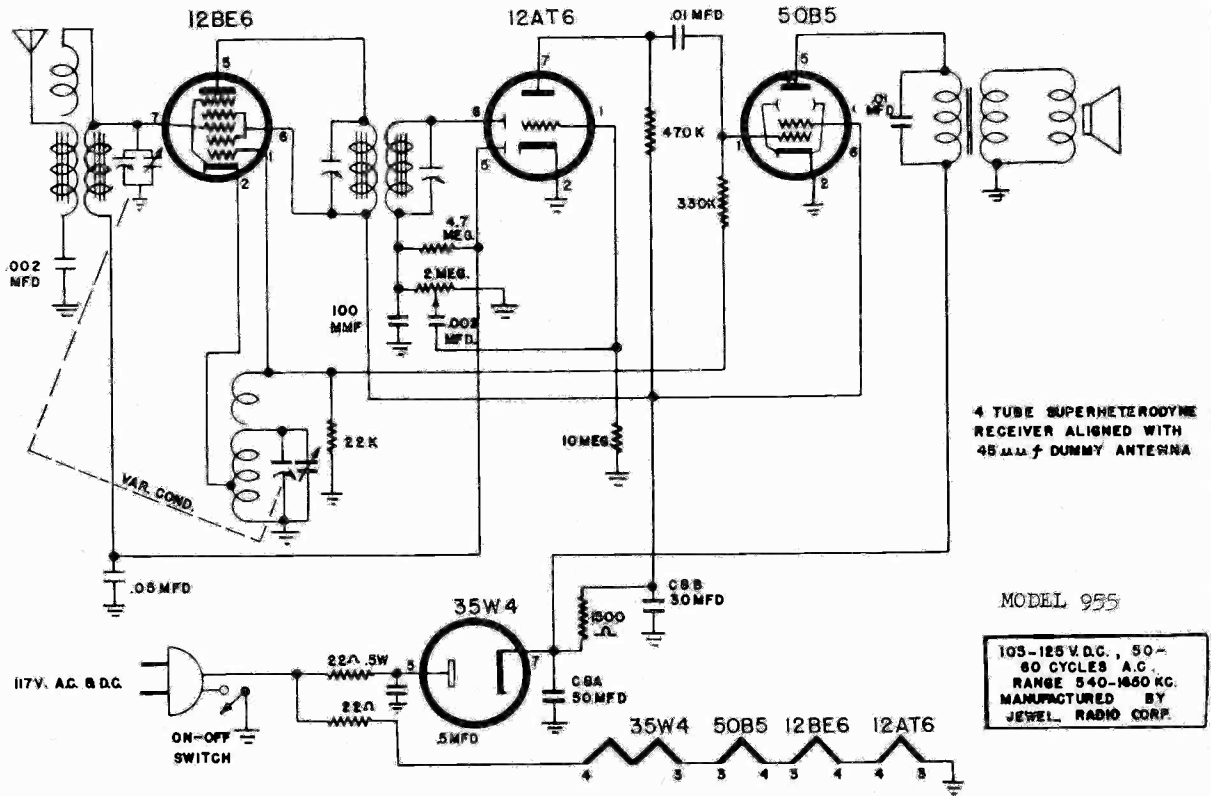
Jewel Radio Corp.

Model 5010U

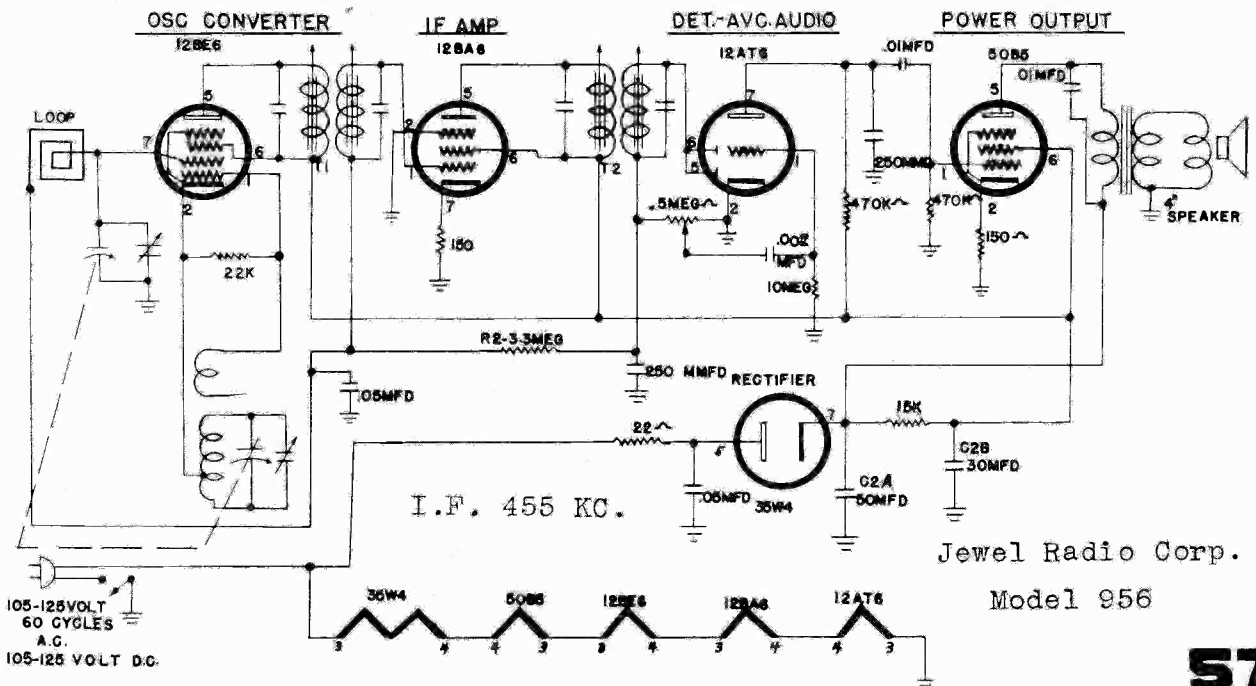


MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Jewel Radio Corp.



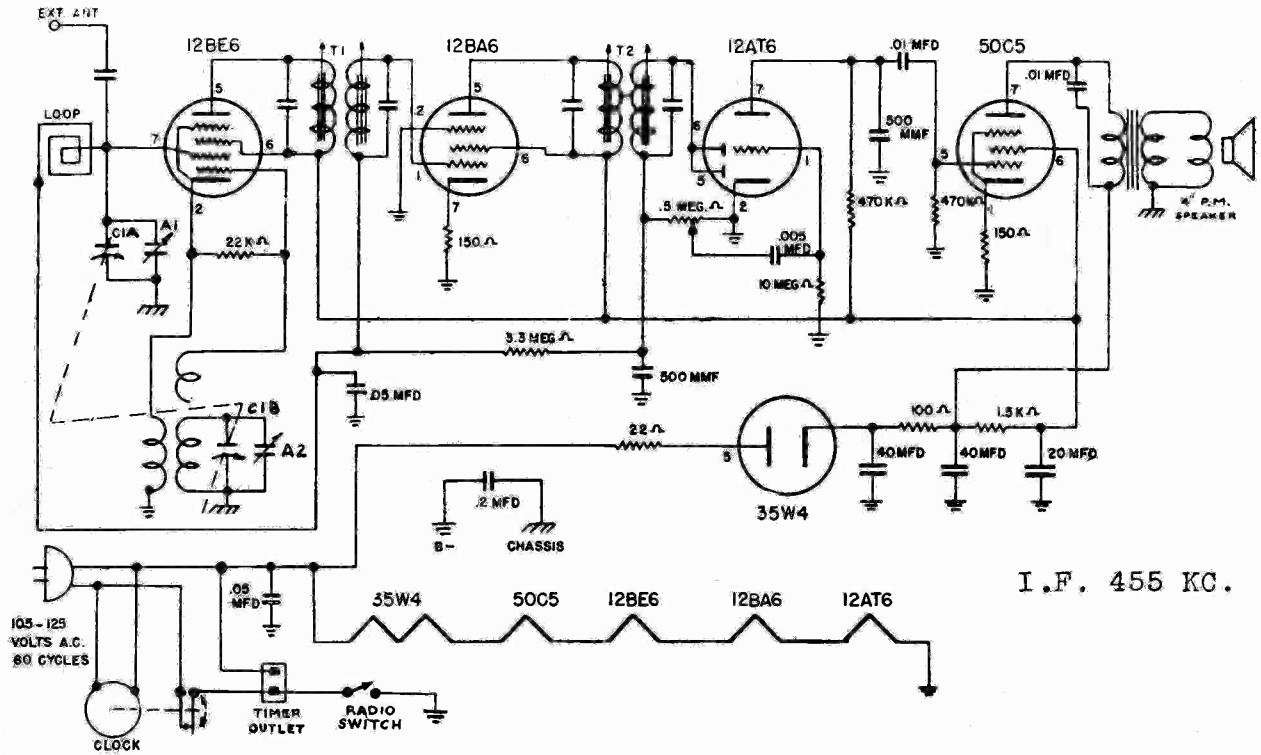
I.F. 455 KC.



MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

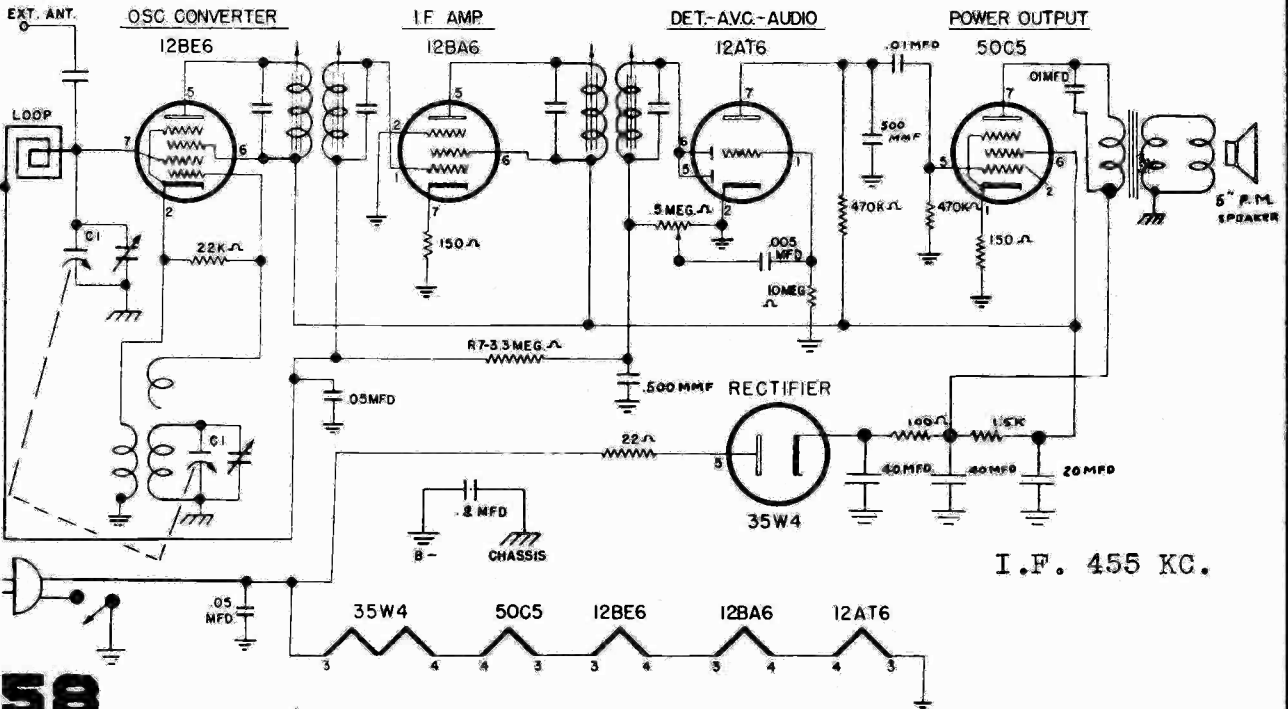
Jewel Radio Corp.

Model 5057U



Jewel Radio Corp.

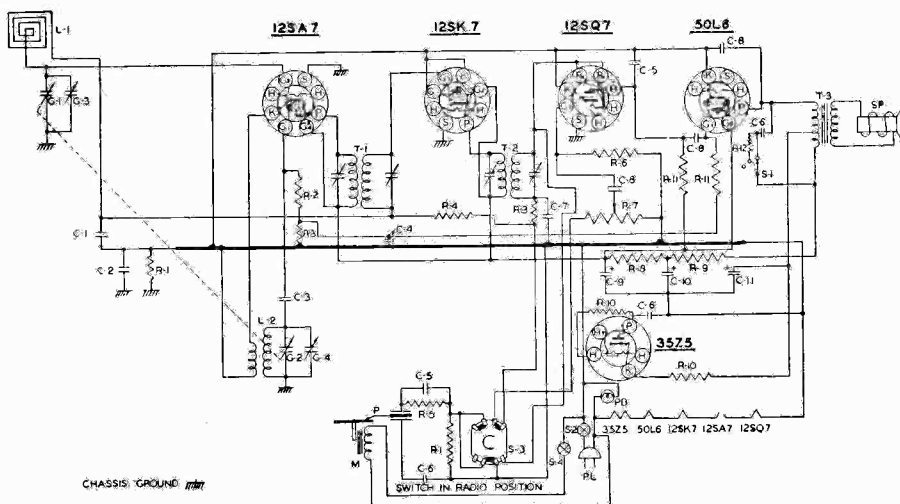
Models 960, 960U, 961



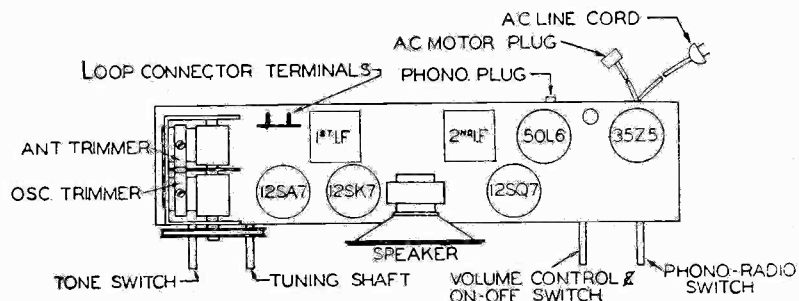
MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

KNIGHT MODEL 5G563

ALLIED RADIO CORPORATION



TUBE AND TRIMMER LOCATION



ALIGNMENT AND SERVICE DATA

Remove chassis from cabinet for alignment.

A Signal Generator is required having the following frequencies: 455 KC, 1400 KC, 1720 KC. An output meter should be connected across the speaker.

The receiver volume control should be turned to maximum during the I.F. and all subsequent alignments to keep the AVC from working and giving false readings. Keep the generator output as low as possible to prevent overloading.

FIRST STEP: Connect the hot lead from the generator to the ANT. section of the gang condenser, through a .1 MFD condenser. The ground lead from the generator must be connected to the floating ground buss under the chassis. Turn the gang condenser to complete minimum capacity. Adjust the generator to 455KC and adjust the trimmers of the 1st and 2nd I.F. transformers until a maximum reading is noted on the output meter.

SECOND STEP: With the leads from the generator still connected in the same manner, adjust the Signal Generator to 1720 KC. The OSC. trimmer is located on the front of the chassis. Adjust this trimmer until the 1720 KC signal is tuned in.

THIRD STEP: Remove the hot lead of the generator from the ANT. section of the gang condenser. Connect this lead to the primary of the loop antenna through a 200 MMFD condenser. Adjust the Signal Generator to 1400 KC. Rotate the tuning control until this signal is tuned in. The ANT trimmer is located on top of the ANT. section of the gang condenser.

Adjust this trimmer until a maximum reading is noted on the output meter.

| PART NO. | DESCRIPTION |
|----------|---------------------------------------|
| PC-2 | C-1 .05MFD CONDENSER 200V |
| PC-8 | C-2 .1MFD CONDENSER 400V |
| MC-4 | C-3 .00005MFD. MICA |
| PC-4 | C-4 .25MFD CONDENSER 200V |
| MC-5 | C-5 .0005MFD. MICA |
| PC-5 | C-6 .05MFD CONDENSER 400V |
| MC-2 | C-7 .0001MFD. MICA |
| PC-7 | C-8 .01MFD CONDENSER 400V |
| EC-7 | C-9 .20MFD |
| EC-14 | C-10 .40MFD 150WV ELECTROLYTIC |
| C-11 | .40MFD |
| IR-20 | R-1 220M Ω RESISTOR 1/2W 20% |
| IR-9 | R-2 22 M Ω RESISTOR 1/2W 20% |
| IR-10 | R-3 47 M Ω RESISTOR 1/2W 20% |
| IR-23 | R-4 3.3MEG Ω RESISTOR 1/2W 20% |
| IR-12 | R-5 1MEG Ω RESISTOR 1/2W 20% |
| IR-13 | R-6 22MEG Ω RESISTOR 1/2W 20% |
| VC-4 | R-7 1MEG. VOLUME CONTROL |
| IR-1 | R-8 470 Ω RESISTOR 1/2W 20% |
| IR-42 | R-9 1000 Ω RESISTOR 1/2W 20% |
| IR-17 | R-10 33 Ω RESISTOR 1/2W 20% |
| IR-11 | R-11 470M Ω RESISTOR 1/2W 20% |
| IR-15 | R-12 2200 Ω RESISTOR 1/2W 20% |
| GC-5 | G-1 GANG CONDENSER |
| G-2 | G-2 ANT. TRIMMER |
| G-3 | G-3 OSC. TRIMMER |
| G-4 | G-4 |
| L-6 | T-1 INPUT I.F. TRANSFORMER |
| L-7 | T-2 OUTPUT I.F. TRANSFORMER |
| | T-3 OUTPUT TRANSFORMER |
| LL-17 | L-1 LOOP ANT. |
| LC-4 | L-2 OSC. COIL |
| SPK-12 | SP 5" PA. SPEAKER |
| SW-2 | S-1 TONE SWITCH |
| | S-2 SWITCH ON VOLUME CONTROL |
| | S-3 PHONO-RADIO SWITCH |
| SW-1 | S-4 SWITCH ON RECORD CHANGER |
| AC-M-7 | M RECORD CHANGER MOTOR |
| AC-PU-7 | P CRYSTAL PICKUP ARM CARTRIDGE |
| PB-2 | PB 10V. 7.5W. PILOT BULB |
| CO-2 | PL LINE CORD |

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Montgomery Ward Models 05WG-2751A, 05WG-2752B, etc. Continued on page 61

ALIGNMENT PROCEDURES

AM STAGES

The following is required for aligning:
An All Wave Signal Generator Which Will Provide an Accurately Calibrated Signal at the Test Frequencies as Listed.
Output Indicating Meter, Non-Metallic Screwdriver, Dummy Antennas
- .1 mf, and 50 mmf.

Volume Control Maximum all Adjustments.
Connect Radio Chassis to Ground Post of Signal Generator with a Short Heavy Lead.
Allow Chassis and Signal Generator to "Heat Up" for Several Minutes.

| SIGNAL GENERATOR | | | | GANG CONDENSER SETTING | ADJUST | ADJUST FOR |
|-------------------|--|-----------------------|-------------------|--|--------------------------------|----------------|
| FREQUENCY SETTING | CONNECT GENERATOR OUTPUT TO | THROUGH DUMMY ANTENNA | CONNECT GROUND TO | | | |
| 455 KC | Control Grid 1st 6BA6 Pin No. 1 | .1 mf | Chassis Base | Rotor Fully Open | 2nd I.F. Pri. (1) and Sec. (2) | Maximum Output |
| 455 KC | Control Grid 6BE6 Pin No. 7 1st Det. | .1 mf | Chassis Base | Rotor Fully Open | 1st I.F. Pri. (3) and Sec. (4) | Maximum Output |
| 455 KC | Control Grid 6BE6 Pin No. 7 | .1 mf | Chassis Base | Rotor Fully Open | 2nd I-F Pri. (1) and Sec. (2) | Maximum Output |
| 1620 KC | Control Grid 6BE6 Pin No. 7 | .1 mf | Chassis Base | Rotor Fully Open | Oscillator C-41 | Maximum Output |
| 1400 KC | External Antenna Terminal | 50 mmf | Chassis Base | Turn Rotor to Max. Output. Set Pointer to 1400 KC See Note A | Antenna C-2 | Maximum Output |

NOTE A—If the pointer is not at 1400 KC on the dial, reset pointer to the 1400 KC mark on the dial scale.

FM STAGES

The following is required for aligning:
An accurately calibrated signal generator providing unmodulated signals at the test frequencies listed below.
Non-metallic screwdriver.
Dummy Antennas and I-F Loading Resistor—2500 mmf, 300 ohms

Zero center scale DC vacuum tube voltmeter having a range of approximately 3 volts.
(If a zero center scale meter is not available, a standard scale vacuum tube voltmeter may be used by reversing the meter connections for negative readings).
Allow chassis and signal generator to "Heat Up" for several minutes.

| SIGNAL GENERATOR | | | THROUGH DUMMY ANTENNA | BAND SWITCH SETTING | GANG CONDENSER SETTING | ADJUST | ADJUST FOR |
|------------------|-------------------|---|-----------------------|---------------------|------------------------|---|--------------------|
| | FREQUENCY SETTING | CONNECT GENERATOR OUTPUT TO | | | | | |
| Discriminator | 10.7 MC | 6BA6 2nd I-F Pin 1 and Chassis | 2500 mmf | FM | Rotor Fully Open | Disc. Pri. (5) Note A | Maximum Deflection |
| | 10.7 MC | 6BA6 2nd I-F Pin 1 and Chassis | 2500 mmf | FM | Rotor Fully Open | Disc. Sec. (6) Note B | |
| I-F | 10.7 MC Note C | 6BA6 1st I-F Pin 1 and Chassis | 2500 mmf | FM | Rotor Fully Open | 2nd I-F Pri. (7) Sec. (8) Note D | Maximum Deflection |
| Discriminator | 10.7 MC | 6BA6 1st I-F Pin 1 and Chassis | 2500 mmf | FM | Rotor Fully Open | Disc. Pri. (5) Note D | Maximum Deflection |
| I-F | 10.7 MC | Junction C-32A & B (Dual 100 mmf cond.) And chassis | 2500 mmf | FM | Rotor Fully Open | 1st I-F Pri. (9) & Sec. (10) 2nd I-F Pri. (7) & Sec. (8) Disc. Pri. (5) In Order Shown Note D | Maximum Deflection |
| | 10.7 MC | Same as above | 2500 mmf | FM | Rotor Fully Open | Disc. Sec. (6) Note B | |

RECHECK I-F ADJUSTMENTS IN ORDER GIVEN

| | | | | | | | |
|------------|-------|---|----------|----|---------------------------------|-----------|--------------------|
| Oscillator | 108.5 | Disconnect built-in dipole antenna and connect generator to dipole terminals with resistor in series. | 300 ohms | FM | Rotor Fully Open | Osc. C-25 | Deflection Maximum |
| Antenna | 104.5 | Same as above | 300 ohms | FM | Tune rotor for max. AVC voltage | Ant. C-39 | Maximum Deflection |

RECHECK ANTENNA & OSC. ADJUSTMENTS IN ORDER GIVEN

FM ALIGNMENT NOTES

NOTE A—The zero center scale DC vacuum tube voltmeter is to be connected between chassis ground and the AVC line. A signal of .1 volt must be fed into the receiver for this adjustment.
Note output voltage on the zero center DC vacuum tube voltmeter.

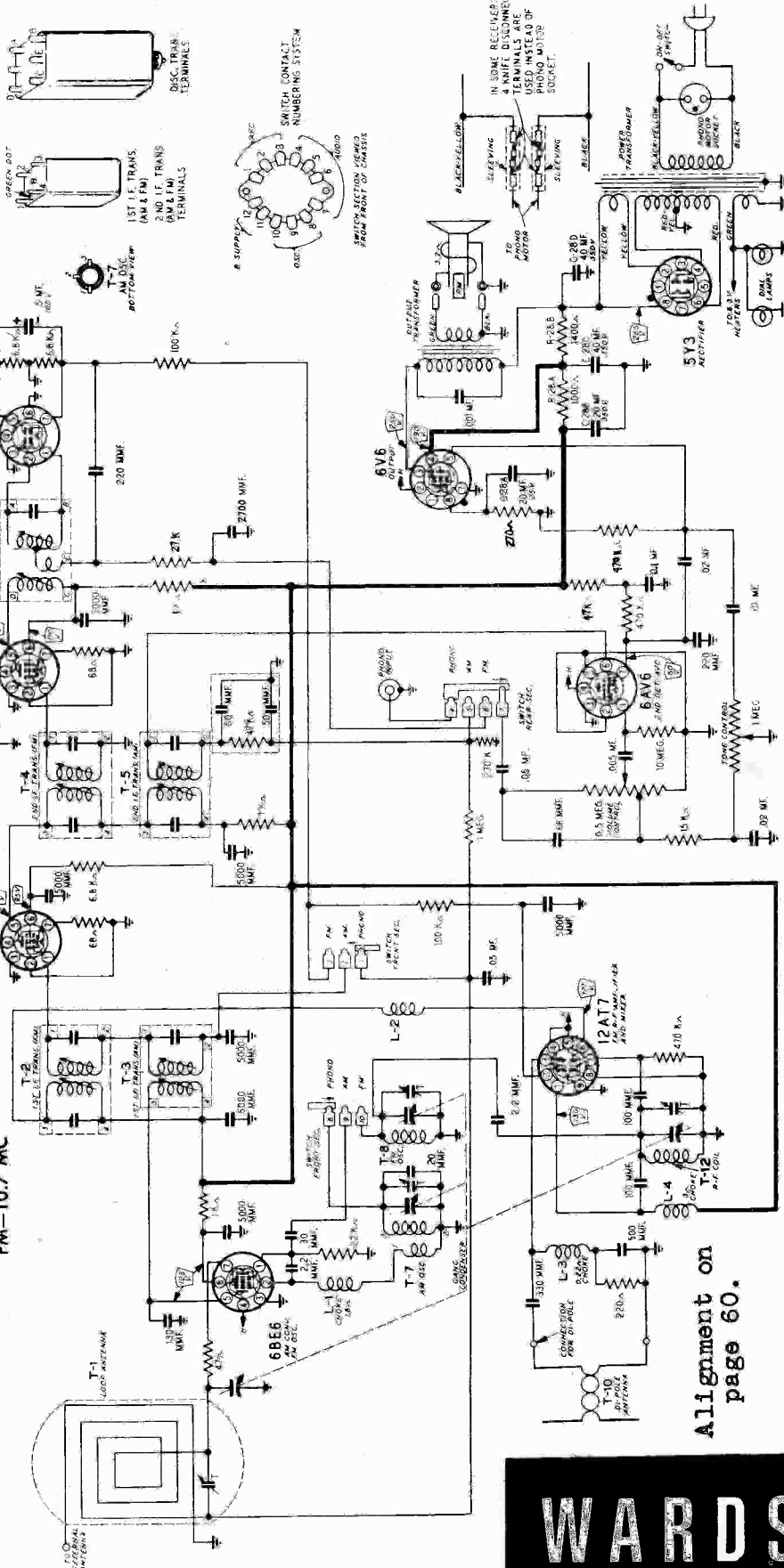
27 K ohm resistor (R-10) and its junction with the terminal strip. Adjust for zero voltage indication.

NOTE C—AM I-F coils must be aligned before attempting to align the FM I-F coils.

NOTE D—Connect zero center DC vacuum tube voltmeter as in Note A. Adjust input to give same output on the zero center DC vacuum tube voltmeter as in Note A.

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Intermediate Frequency... AM—455 KC
FM—10.7 MC



Alignment on page 60.

TUBE SOCKET VOLTAGES

Socket voltages are shown on the schematic diagram at the tube socket terminals. All voltages are between the socket terminal and chassis ground. Plate, screen and cathode voltages were taken with a 1000 ohm-per-volt meter with a 300 volt scale used for plate and screen voltages. Audio grid voltages were read with a vacuum tube volt-meter.

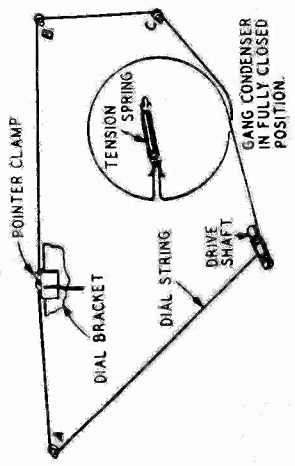
Conditions of measurement are:

- Line voltage 117 Volts AC
- Signal Input None

M O N I T O R E R Y W A R D

MODELS 05WG-2751A & 05WG-2752B

Models 05WG-2752, 05WG-2752C, and 15WG-2752D differ from models listed above and presented on this page in cabinet or record changer. Model 15WG-2752E also uses an AF coupling pack.

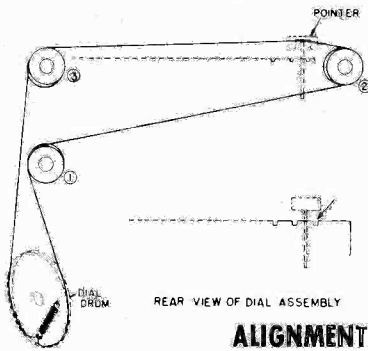


WARDS

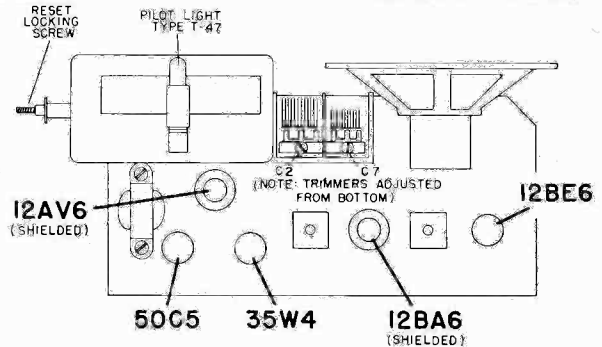
MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Montgomery Ward

MODELS 05BR-1536A, 1537A



Models with suffix "B" use 35Z5 in place of 35W4



CHASSIS VIEW, SHOWING TUBE LOCATIONS

ALIGNMENT PROCEDURE AND RECEIVER STAGE SENSITIVITIES

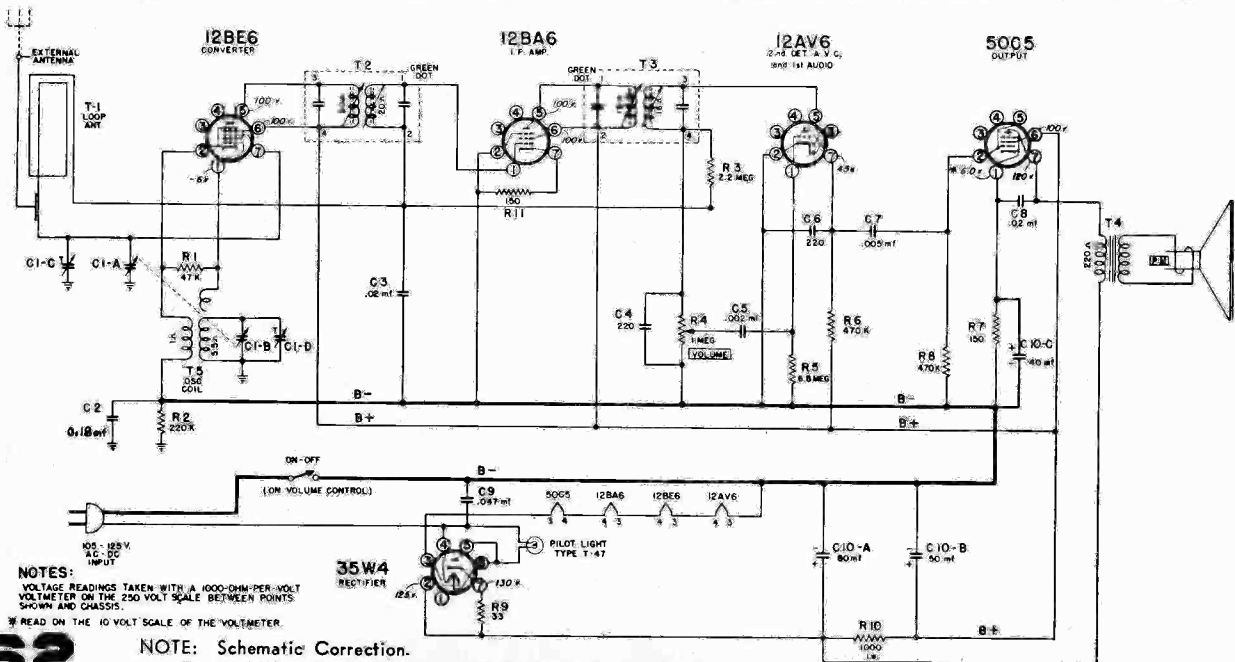
The signal source must be an accurately calibrated signal generator capable of supplying R. F. signals modulated 30% with a 400-cycle audio signal. A 400-cycle source is necessary for the audio measurement.

The table below lists the sensitivity at various points. All measurements are based on an output of 50-milliwatts. This may be measured by disconnecting the

speaker voice coil and substituting a 3.2-ohm, 5-watt resistor across the secondary winding of the output transformer. A reading of .4 volts AC across this resistor will be equivalent to a 50-milliwatt output with the speaker connected. Variations of plus or minus 25% are usually permissible. Volume control at maximum for all adjustments.

| SIGNAL GENERATOR | | | | TUNER SETTING | ADJUST FOR MAXIMUM OUTPUT | INPUT FOR 50-MILLIWATT OUTPUT |
|------------------|--------------------|-----------------------|-------------------|------------------|--|-------------------------------|
| Frequency | Coupling Capacitor | Connection to Radio | Ground Connection | | | |
| 455 kc. | .1 mf. | Pin No. 7 of 12BE6 | Buss wire | Rotor full open | Trimmers on output and input I.F. cans | 50 microvolts |
| 1700 kc. | .1 mf. | Pin No. 7 of 12BE6 | Buss wire | Rotor full open | Oscillator trimmer C7 (on top) | _____ |
| 1400 kc. | none | See note A | none | Set dial at 1400 | Antenna trimmer C2 (on top) | _____ |
| 1400 kc. | .1 mf. | External antenna clip | Buss wire | 1400 kc. | _____ | 50 microvolts |
| 400 cycles | .1 mf. | 12AV6, Pin 1 | Buss wire | _____ | _____ | .03 volts |

Note A: Lay output lead of generator in back of loop antenna. Turn up generator output. Loop antenna will pick up energy.



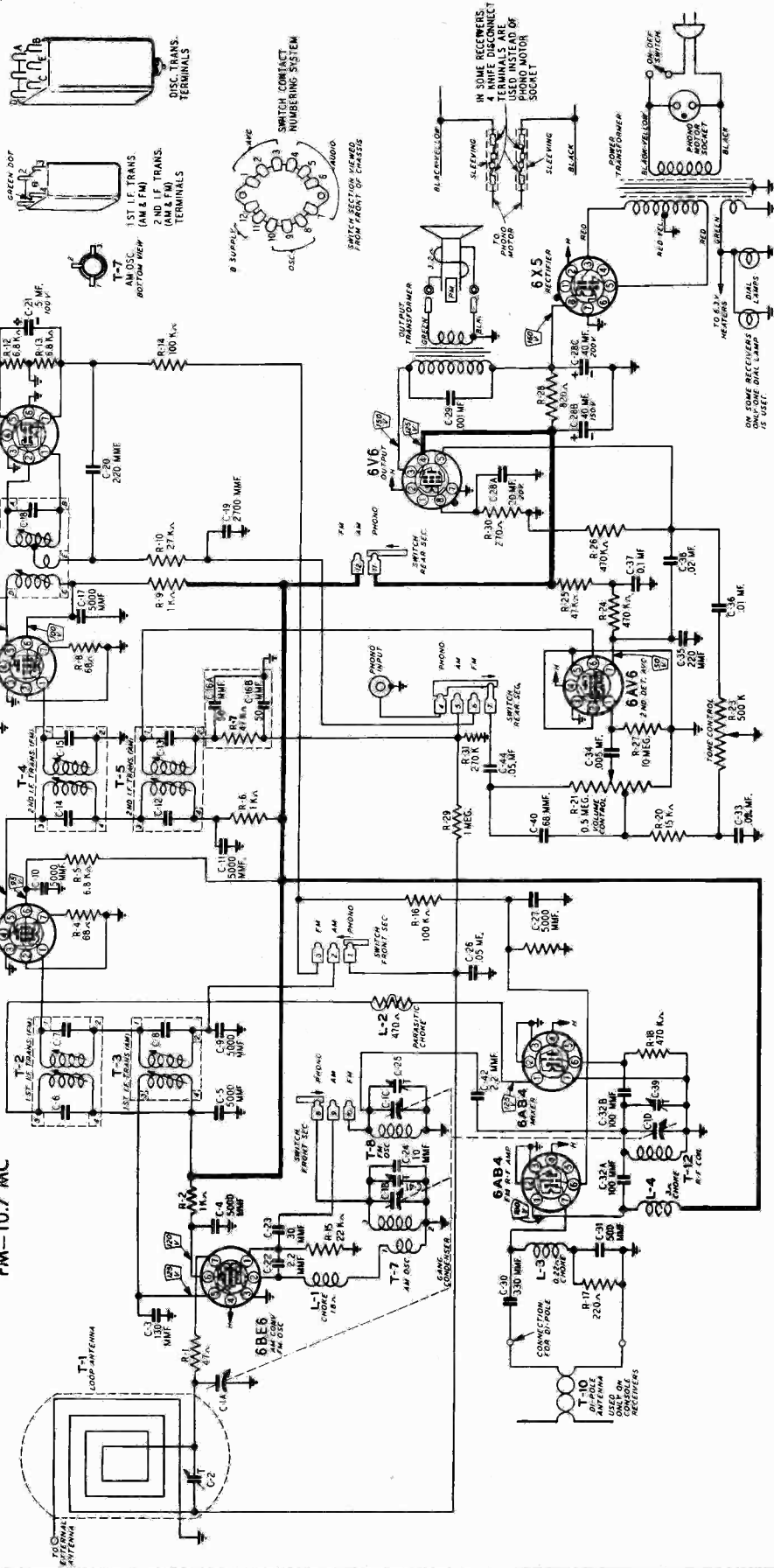
NOTES:
VOLTAGE READINGS TAKEN WITH A 1000-OHM-PER-VOLT VOLTMETER ON THE 250 VOLT SCALE BETWEEN POINTS SHOWN AND CHASSIS.
* READ ON THE 10 VOLT SCALE OF THE VOLTMETER.

NOTE: Schematic Correction.

C8 should be connected between Pin 7 of the 50C5 tube to B-

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Intermediate Frequency...AM—455 KC
FM—10.7 MC



TUBE SOCKET VOLTAGES

Socket voltages are shown on the schematic diagram at the tube socket terminals. All voltages are between the socket terminal and chassis ground. Plate, screen and cathode voltages were taken with a 1000 ohm-per-volt meter with a 300 volt scale used for plate and screen voltages. Audio grid voltages were read with a vacuum tube volt-meter. Conditions of measurement are:

- Line voltage 117 Volts AC
- Signal Input None
- A variation of ±10% is usually permissible.

M O N I T O R E R Y W A R D

AM-FM MANTEL RADIO

Model 15WG-1813B is similar, but uses 12AT7 tube instead of two 6AB4 tubes.

AM-FM CONSOLE MODEL 05WG-2748F

Models of the above number, but with suffix C, D, or E, or Models 94WG-2748B and 94WG-2748C are the same as model here described but use a different record changer. Model 94WG2748A has minor circuit differences from these models.

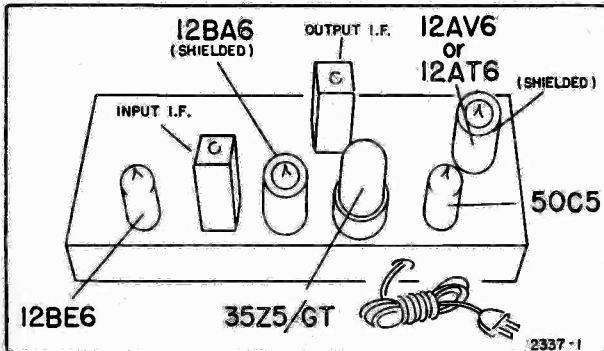


MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

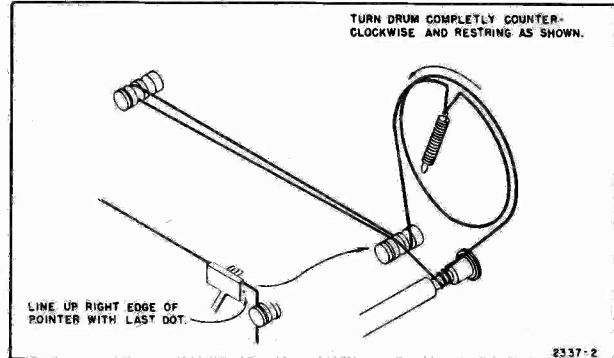
M O N T G O M E R Y W A R D

MODEL NO.
15BR-1543A
15BR-1544A

Power Supply 115 volts, DC or 50-60 cycle AC,
24 watts.
Frequency Range 540 to 1600 Kc.
Intermediate Freq. 455 Kc.



Top Chassis View

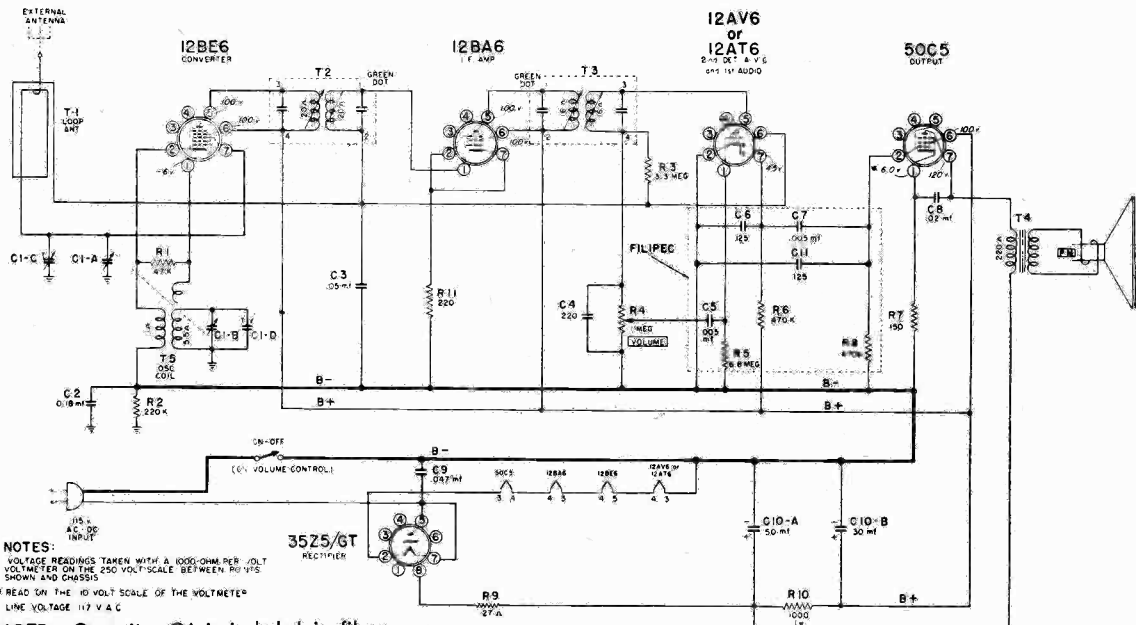


Dial Stringing Diagram

ALIGNMENT PROCEDURE

- Loop must be connected and set volume to maximum.

| SIGNAL GENERATOR | | | | TUNER SETTING | ADJUST FOR MAXIMUM OUTPUT | INPUT FOR 50-MILLIWATT OUTPUT |
|------------------|--------------------|---|--|---|--|-------------------------------|
| Frequency | Coupling Capacitor | Connection to Radio | Ground Connection | | | |
| 455 kc. | .1 mf | 12BE6, Pin 7 | HEAVY BUSS LEAD ACROSS CENTER OF CHASSIS | Capacitor fully open (plates out of mesh) | Top and bottom Cores in output and input I.F. cans | 65 microvolts |
| 1620 kc. | .1 mf | 12BE6, Pin 7 | | Capacitor fully open (plates out of mesh) | Oscillator trimmer C1-D on gang | 70 microvolts |
| 535 kc. | .1 mf. | 12BE6, Pin 7 | | Capacitor fully closed | Check for adequate range | 70 microvolts |
| 1400 kc. | — | Lay generator lead near back of cabinet | | Tune in 1400 kc. signal | Antenna trimmer C-1C on gang | 200 to 400 microvolts |
| 400 cycles | .1 mf | 12AT6, Pin 1 | | | | .06 volts |



NOTES:
VOLTAGE READINGS TAKEN WITH A 1000-OHM PER VOLT VOLTMETER ON THE 250 VOLT SCALE BETWEEN POINTS SHOWN AND CHASSIS
* READ ON THE 10 VOLT SCALE OF THE VOLTMETER
LINE VOLTAGE 117 V A C

NOTE: Capacitor C4 is included in filipec.

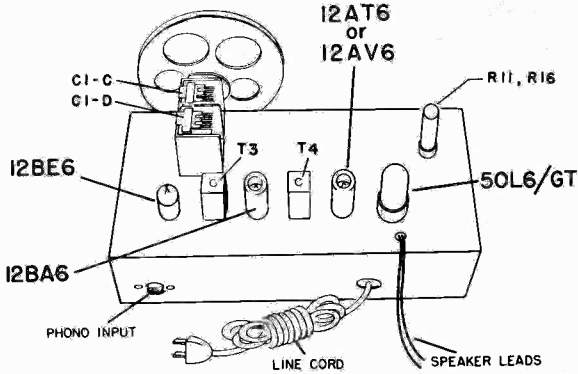
MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

M O N T G O M E R Y

W A R D

TABLE RADIO

MODEL NO.
15BR-1547A



ALIGNMENT PROCEDURE AND RECEIVER STAGE SENSITIVITIES

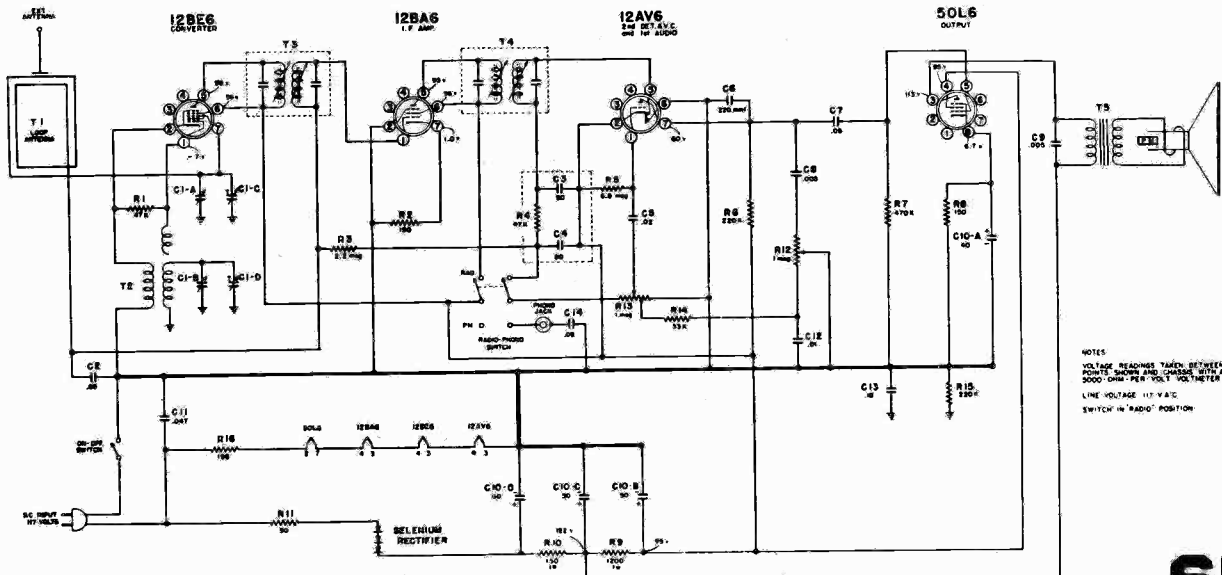
Alignment must be done in the cabinet.

The signal source must be an accurately calibrated signal generator capable of supplying 455 Kc and up to 1620 Kc signals modulated 30% with a 400-cycle audio signal.

To connect the output meter, disconnect the speaker and substitute a 3.2 ohm, 5 watt resistor across the secondary winding of the output transformer. Connect output meter across 3.2 ohm resistor.

- Volume control at maximum for all adjustments.
- Align for maximum output. Reduce input as needed to keep output near 0.4 volts.
- Loop antenna should be connected to receiver and in its proper position when making adjustments.

| SIGNAL GENERATOR | | | | TUNER SETTING | ADJUST FOR MAXIMUM OUTPUT |
|------------------|--------------------|--|----------------------------|---|--|
| Frequency | Coupling Capacitor | Connection to Radio | Ground Connection | | |
| 455 kc. | .1 mf. | 12BE6, Pin 7 | B MINUS POINT BUSS LEAD | Capacitor fully open (plates out of mesh) | Top and bottom Cores in output and input I.F. cans |
| 1620 kc. | .1 mf. | 12BE6, Pin 7 | | Capacitor fully open (plates out of mesh) | Oscillator trimmer C1-D on gang |
| 535 kc. | .1 mf. | 12BE6, Pin 7 | | Capacitor fully closed | Check for adequate range |
| 1400 kc. | — | Lay Generator lead near back of cabinet. | | Set dial pointer at 1400 kc. | Antenna trimmer C1-C on gang |



NOTES
VOLTAGE READINGS TAKEN BETWEEN POINTS SHOWN AND CHARGE WITH A 5000 OHM PER 100 VOLT METER
LINE VOLTAGE 117 V.A.C.
SWITCH IN "RADIO" POSITION

NOTE: Either a 12AT6 or a 12AV6 tube may be used.

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

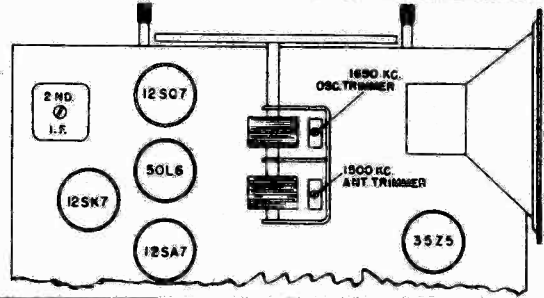
MONTGOMERY WARD

RADIO

Model Nos.

15GCB-1583

15GCB-1584

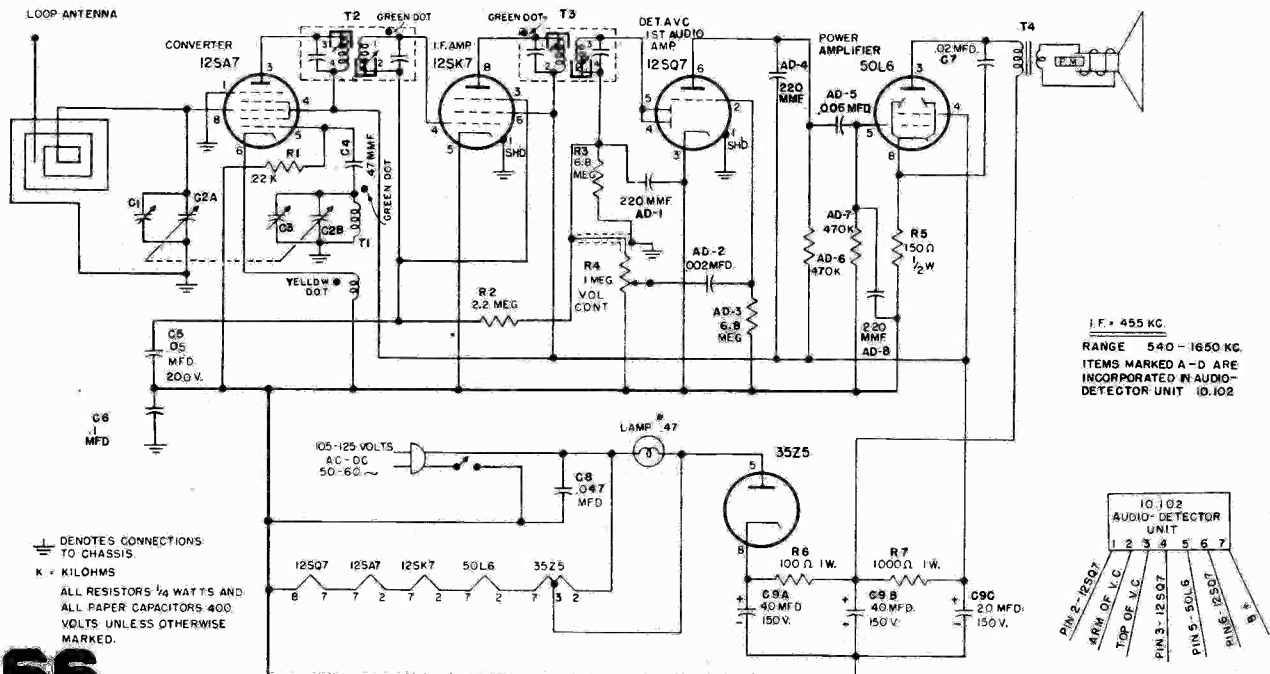


| SIGNAL GENERATOR | | | | DIAL SETTING | ADJUST FOR MAXIMUM OUTPUT |
|------------------|------------------|---|---------------------|-------------------------------|---------------------------------------|
| Frequency | Coupling | Connection to Radio | Ground Connection | | |
| 455 KC | .1 mfd condenser | Stator lug Var. Capacitor (front section) | Lug on Power Switch | Variable Condenser fully open | Trimmers 1st and 2nd I.F. transformer |
| 1650 KC | Coupling loop | None | None | Variable Condenser fully open | Oscillator Trimmer (front section) |
| 1500 KC | Coupling loop | None | None | 1500 KC | Ant. Trimmer (rear section) |

TUBE COMPLEMENT AND VOLTAGE CHART

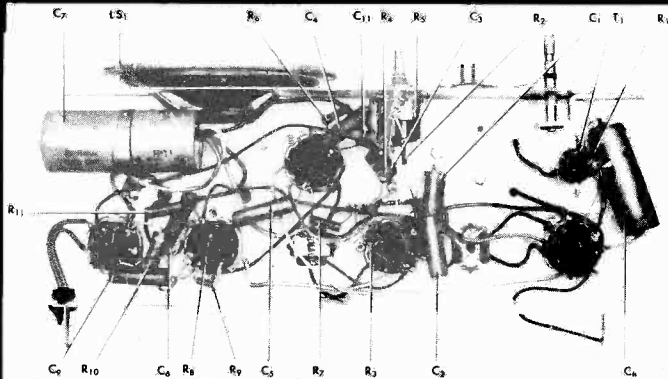
| TUBE TYPE | PIN 1 | PIN 2 | PIN 3 | PIN 4 | PIN 5 | PIN 6 | PIN 7 | PIN 8 |
|----------------------------|-------|----------|----------|-------|----------|-------|-----------|-------|
| 12SA7 Converter | -.8 | 25 A.C. | 85 | 85 | -.8 | 0 | 12 A.C. | -.8 |
| 12SK7 IF Amplifier | -.8 | 37 A.C. | -.8 | -.8 | 0 | 85 | 25 A.C. | 85 |
| 12SQ7 Det., AVC, Aud. Amp. | -.8 | -.8 | 0 | -.8 | -.8 | 45 | 12.6 A.C. | 0 |
| 50L6 Beam Power Amp. | --- | 84 A.C. | 104 | 85 | 0 | --- | 37 A.C. | 5 |
| 35Z5 Rectifier | --- | 117 A.C. | 112 A.C. | 85 | 117 A.C. | 110 | 84A.C. | 116 |

All readings with VTVM measured to B minus

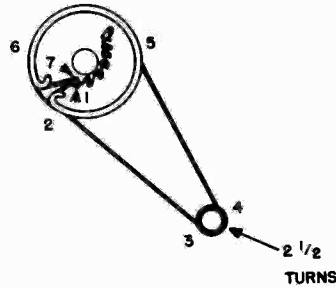


MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

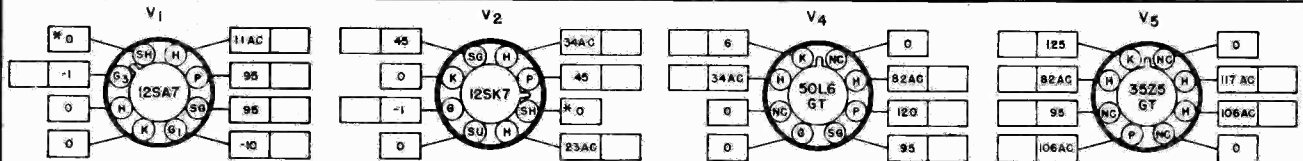
M O N T G O M E R Y W A R D



DIAL CORD STRINGING



RADIO TABLE MODELS
15HA-1553A
15HA-1554A



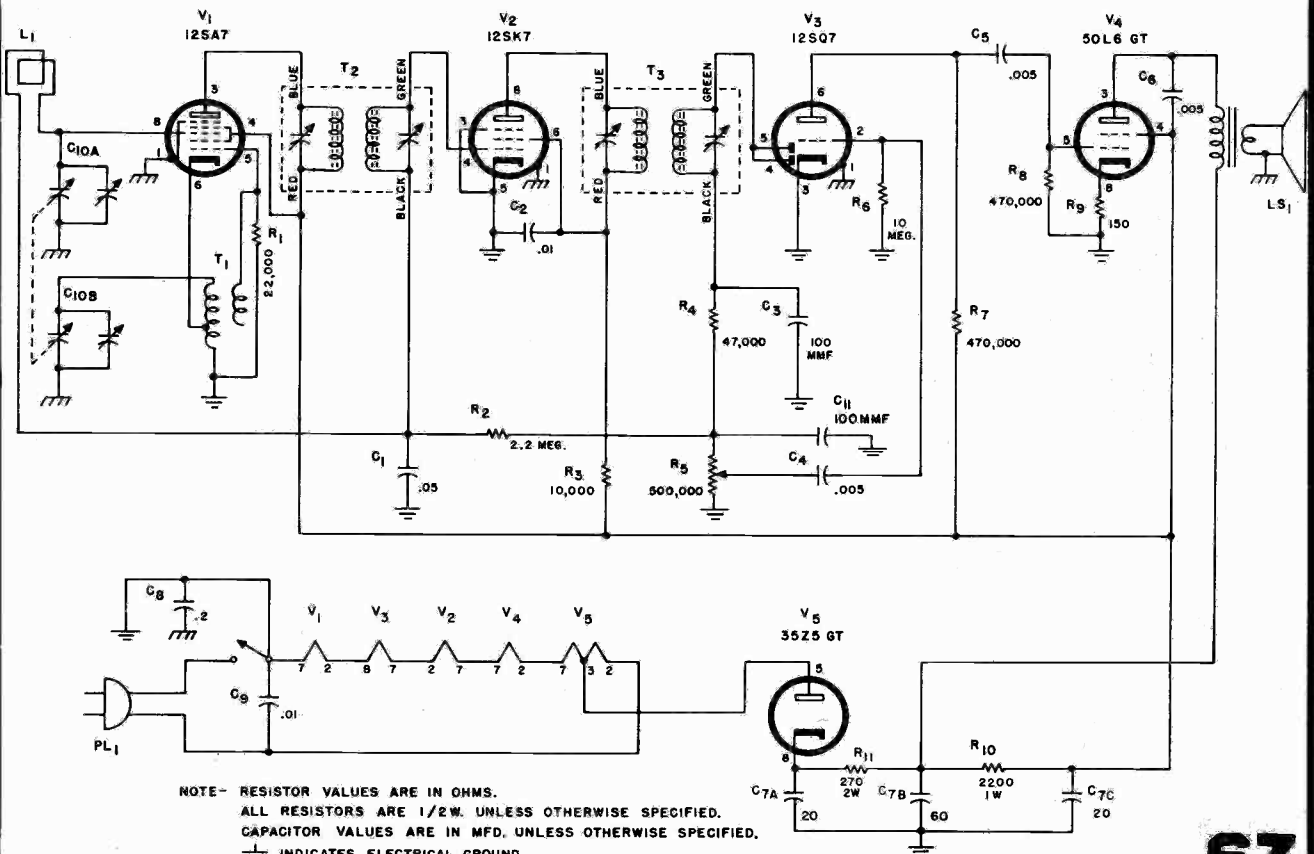
*CAUTION—SEE NOTE 9.

1. SOCKET VIEWS ARE BOTTOM VIEWS.
2. ALL VOLTAGES ARE MEASURED BETWEEN TUBE SOCKET TERMINALS AND ELECTRICAL GROUND (NOT CHASSIS) WITH ZERO SIGNAL INPUT.
3. LINE VOLTAGE—117 V. AC.
4. ALL VOLTAGES SHOWN ARE DC UNLESS OTHERWISE SPECIFIED. AC VOLTAGES SHOWN BECOME DC WHEN OPERATING FROM A DC LINE.
5. DC VOLTAGES SHOWN WERE MEASURED WITH AN ELECTRONIC VOLTMETER.
6. "NC"—NO CONNECTION. (VOLTAGE SHOWN FOR THIS TERMINAL ONLY WHEN TERMINAL IS USED AS A TIE LUG).
7. "NR"—NOT READABLE. (READING GENERALLY MEANINGLESS).
8. SPACE PROVIDED FOR SERVICE METER READINGS.
9. ALL READINGS TAKEN WITH LINE PLUG POLARIZED SO THAT GROUND BUSS AND CHASSIS ARE AT THE SAME POTENTIAL WITH THE CHASSIS GROUNDED.

Intermediate Frequency.455 KC

FRONT APRON

BOTTOM VIEW OF CHASSIS

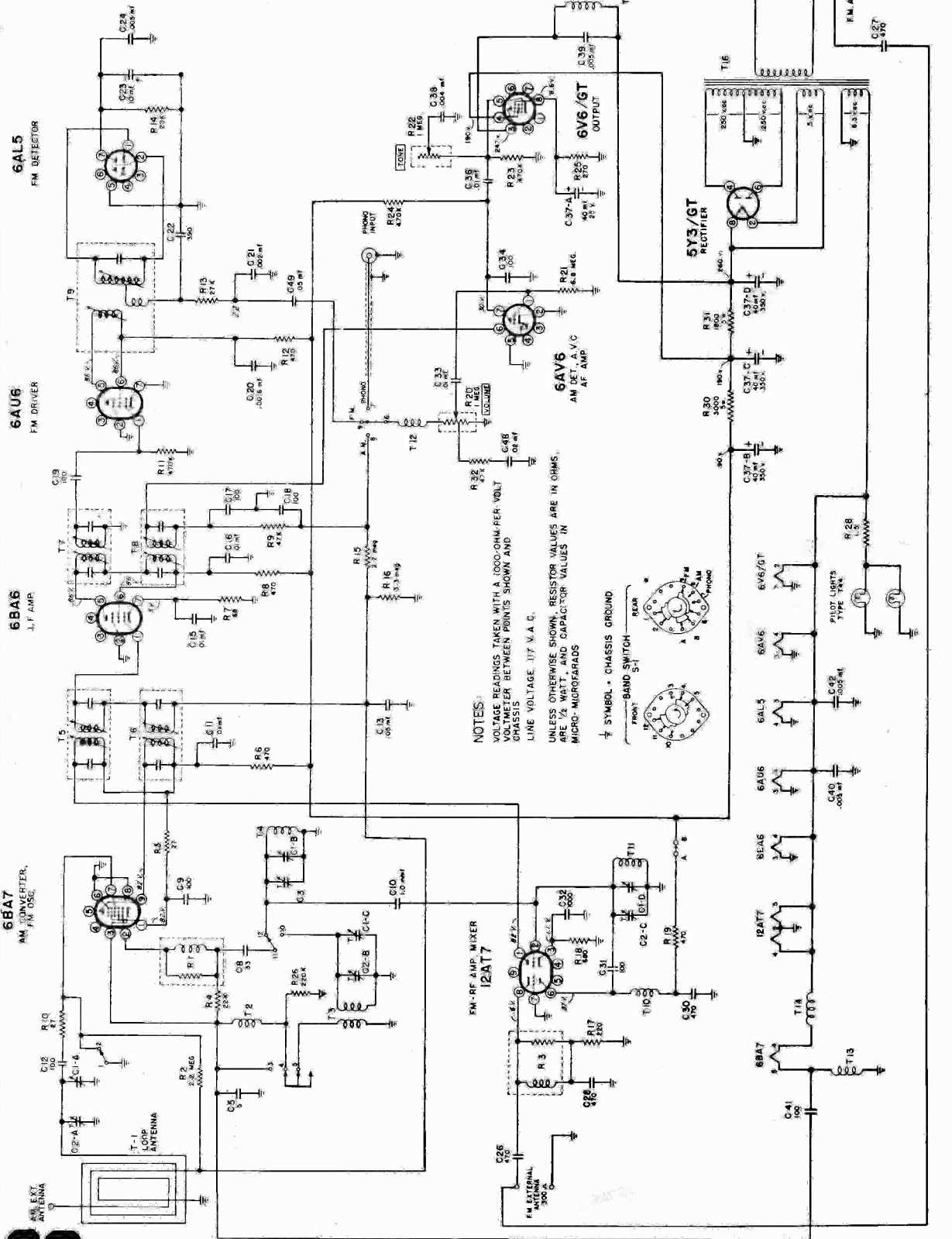


NOTE—RESISTOR VALUES ARE IN OHMS.
ALL RESISTORS ARE 1/2W. UNLESS OTHERWISE SPECIFIED.
CAPACITOR VALUES ARE IN MFD. UNLESS OTHERWISE SPECIFIED.
⊥ INDICATES ELECTRICAL GROUND
⏏ INDICATES CHASSIS GROUND

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

MONTGOMERY WARD

Models 05BR-2756A, 15BR-2756B,
and 15BR-2757A.



Intermediate Freq. AM-455 kc.; FM-10.7 mc.

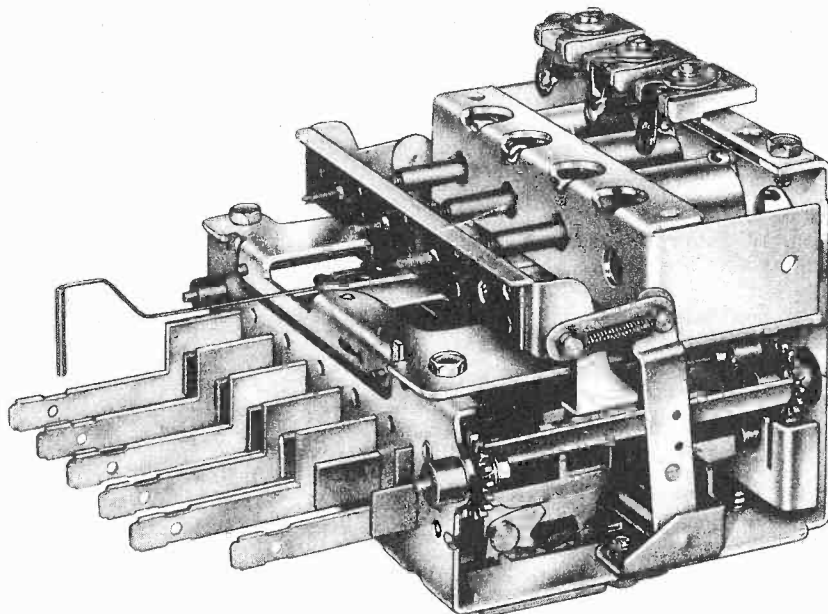
NOTE: Line cord Antenna wire is not electrically connected to the AC plug terminals.



MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Motorola **AUTO** Radio

AUTOMATIC TUNER AT-58



GENERAL INFORMATION

DESCRIPTION

Automatic Tuner AT-58 is used in Motorola specific auto receivers.

This is a 8-gang permeability type tuner, mechanically operated by movement of its push buttons. Five pre-set and one manual tuning positions are provided. The frequency range is 535 to 1600 Kc. The pre-set positions can be set in any sequence to any frequency within this range.

SERVICE TOOLS

The simplicity of the tuner allows easy servicing with:

1. 1/4" open end and 1/4" box end wrench.
2. A stiff steel hook 1/16" diameter made of 1/8" rod, ground down and shaped like a #5 to #10 size crochet hook, to hook and unhook the springs.
3. Slab head wrench for coil adjustment: #2/56 head.

TO REMOVE TOP DECK

Unscrew two #8 sheet metal screws (45) on the back of the tuner and two #8 sheet metal screws (45) on the top front of the tuner. (Do not unscrew screws (45) at trimmer bracket). Before removing

top deck, unhook springs (53) and links (25). Grasp top deck and lift up and tip back. This leaves both decks open for servicing. See Figures 1 and 2.

SERVICING LOWER DECK

Looking at the top of the lower deck (with front to you), on the right we have the manual drive lead screw assembly (42). The other 5 assemblies (43) are the station set-up screw assemblies.

Note that all assemblies can be easily lifted out after springs (50) are unhooked.

Note also that unless a push button arm (1) is pushed in, all assemblies lay flat. When a push button arm (1) is pushed in, the assembly is tilted about 30°.

Visual inspection will show correct location of all springs in the assemblies and those which hold down the assemblies.

(Service material on Tuner AT-58 is continued on the next three pages.)

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Motorola Automatic Tuner AT-58, continued from previous page,

Note action of gear train as manual knob is turned and push button arm is pushed in so gears mesh. Automatic tuning buttons can be checked for any binding by trying each button.

DRIVE ARM ADJUSTMENT

It is very important that the carriage drive assembly (12) be correctly adjusted in its bearings so as not to bind or be too loose and allow it to twist and force the tuner out of alignment.

On the left side of the lower deck, you will find a set screw (47) and lock nut (30) for assembly adjustment. Note that the assembly is floated in the base bracket (7) between two ball bearings (4), one on each end. Adjust by loosening lock nut (30) and then turn set screw (47) so that all bearing play is eliminated but yet carriage drive assembly (12) moves freely. Tighten lock nut (30) after adjustment. Before hooking spring (54), tip the tuner several times to make sure carriage drive assembly (12) is free enough to swing up or down by its own weight.

POINTER REPLACEMENT

The pointer is easily removed by downward and outward pressure to unhook it from the pointer arm (2). Pointer is replaced by reversing procedure.

SERVICE INFORMATION

The entire top deck of this tuner may be removed, while tuner is mounted in receiver chassis, allowing complete accessibility to all mechanical parts.

TO REPLACE PARTS ON LOWER DECK

Remove top deck of tuner (follow previous instructions). This exposes the 5-station set up screw assemblies (43) and manual lead screw assembly (42). These may be removed by unhooking springs (50) and lifting them out.

If push button arms or slider arms are to be replaced, it will be necessary to remove spring (54); then take out screws (48) from bottom of tuner to allow bracket (7) to move back and permit push button arm assemblies (1) or slider arms (3) to be removed after springs (53) have been removed.

SERVICE HINTS

1. **STATION DRIFT (Push Buttons).** Check the flat friction spring (56) for breaks or permanent set.
2. **TUNER STICKING.** Check collars on manual drive assembly (42). If they are cocked or stuck, replace with new assembly.
3. **HARD TUNING FOR PRE-SETTING.** Check lubricant on the gear train. It should be Stayput #512 or equal.
4. **TWISTING CARRIAGE PLATE.** Due to poor setting of carriage drive assembly (12). See "Drive Arm Adjustment".

ANT., RF OR OSC. CORE REPLACEMENT

The tuner cores (18) are easily unscrewed from clip (14) and pulled out when carriage assembly (13) is extended. Note that the cores are coded with a paint dot on the screw portion; always use replacement cores bearing the same color coding. When ordering replacement cores, always specify color coding together with part number.

TO SET THE PUSH BUTTONS

1. Turn receiver "on" and allow it to warm up for a few minutes.
2. Push the first automatic tuning button in as far as it will go and HOLD IT THAT WAY.
3. With the tuning knob, tune in the station you desire to set up. Tune carefully until you are exactly on the station; tuning to either side of it will result in poor tone quality. The pointer will indicate station being set up. Release button and knob after tuning in station.
4. Follow above steps 2 and 3 for the remaining four buttons.

Patience is required to assemble push button arm assemblies (1) and slider arms (3) back into bracket (7). Reassemble tuner by working in reverse order.

Test all parts of lower deck for free operation before assembling to upper deck.

TO REPLACE TOP DECK

Make sure that carriage drive assembly (12) is tipped back (spring (54) unhooked) and carriage assembly (13) carrying the tuning cores is out. Slip in the top deck, making sure the spring washer (70) on the manual drive assembly (42) is between the drive assembly gear and the back of the base before putting in screws and locking the two decks together.

5. **ROUGH DRIVE -** Check die cast gears (19, 20 & 21). Check for lubrication (Stayput #512). Check manual drive bushings.
6. **LATCH BAR JAMMING OUT.** Check the latch bar spring (51) on the back. If it is bent out of shape, turn it 180° and reshape. If it is weak-replace.
7. **STICKING POINTERS.** Check the pointer bearing (6) and make sure the linkage of the assembly is free.
8. **POINTER NOT RE-POSITIONING OR SLOPPY ACTION.** Be sure to check the torsion spring (58) (on the under side of the top deck) for breakage or slipping from the notches on the base and the pointer link plate (34).

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Motorola Automatic Tuner AT-58, continued

(Service instructions given on the previous two pages; Figure 2, showing location of additional parts is on the next page, over).

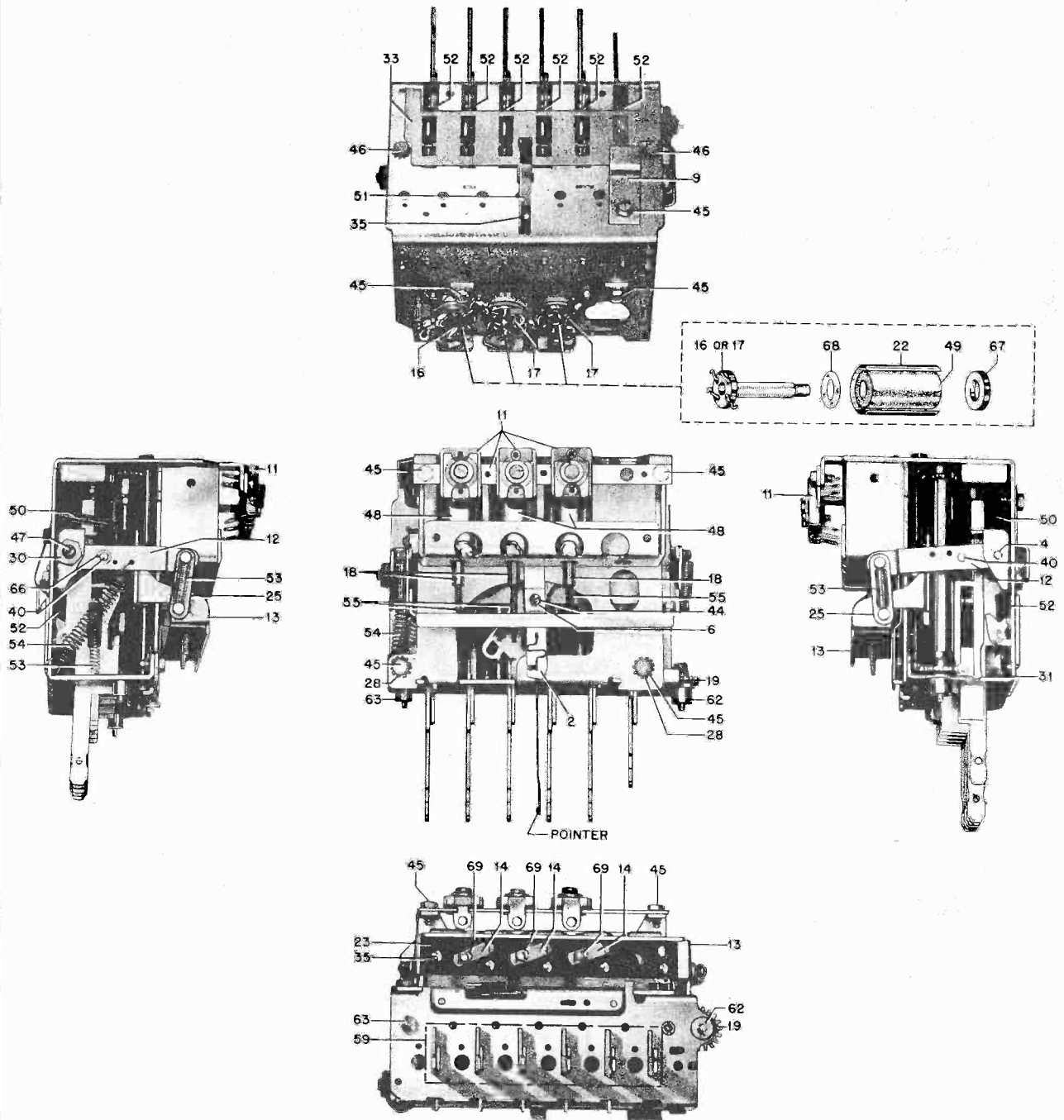


FIGURE 1. AUTOMATIC TUNER AT-58 PARTS LOCATIONS

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Motorola Automatic Tuner AT-58, continued

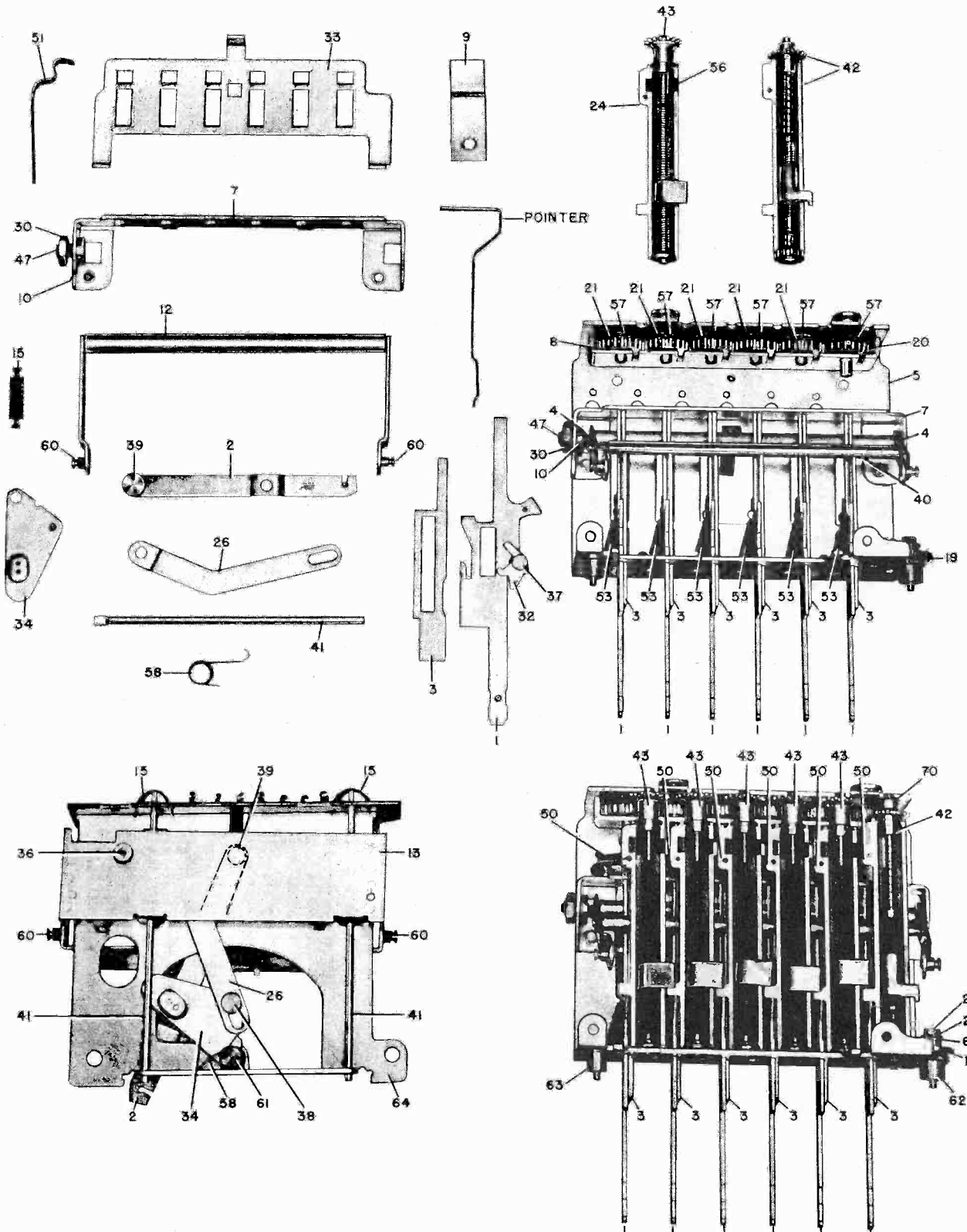
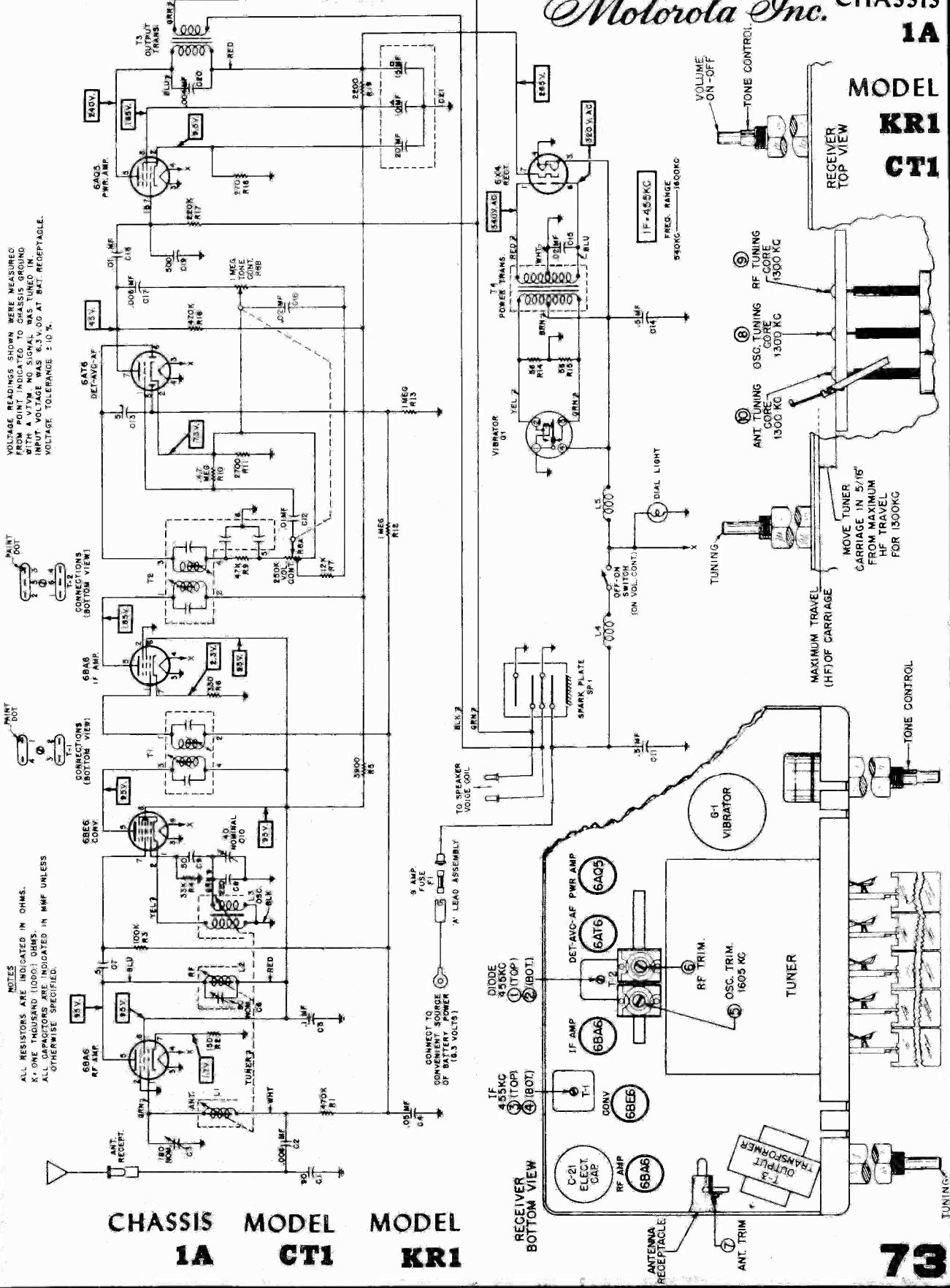


FIGURE 2. AUTOMATIC TUNER AT-58 PARTS LOCATION

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Motorola Inc. CHASSIS 1A

MODEL KR1 CT1



VOLTAGE READINGS SHOWN WERE MEASURED FROM POINT INDICATED TO CHASSIS GROUND. NO SIGNAL WAS TUNED IN. INPUT VOLTAGE WAS 100 V. AT ANT. RECEPTACLE. VOLTAGE TOLERANCE ± 10 %.

NOTES
ALL RESISTORS ARE INDICATED IN OHMS.
K, ONE THOUSAND (1000) OHMS.
ALL CAPACITORS ARE INDICATED IN MMF UNLESS OTHERWISE SPECIFIED.

CHASSIS 1A MODEL CT1 MODEL KR1

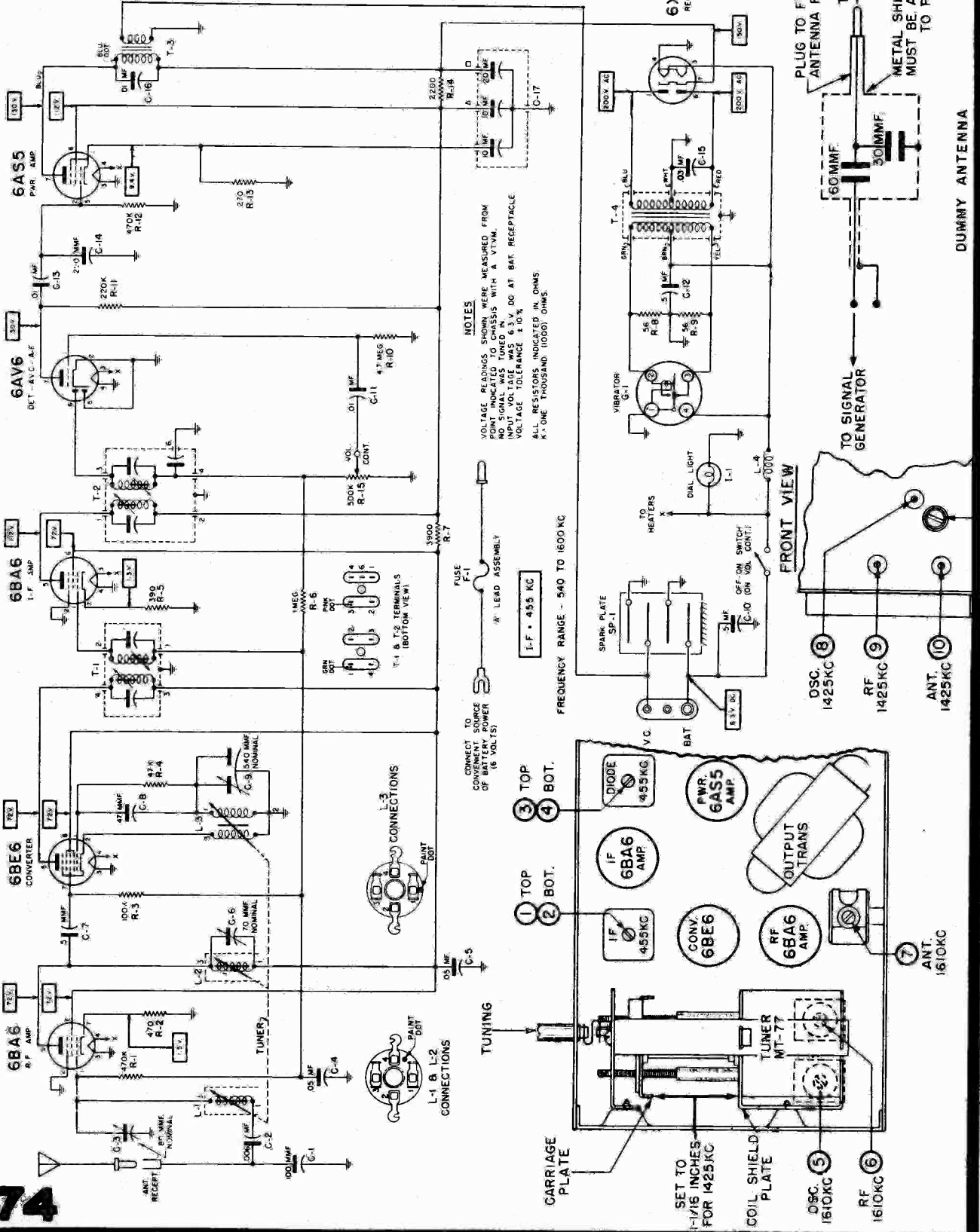
MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Motorola Inc.

**CHASSIS
1B**

**MODEL
SR1B**

Model GT1M designed for 1951 Chevrolet
uses almost the identical circuit.

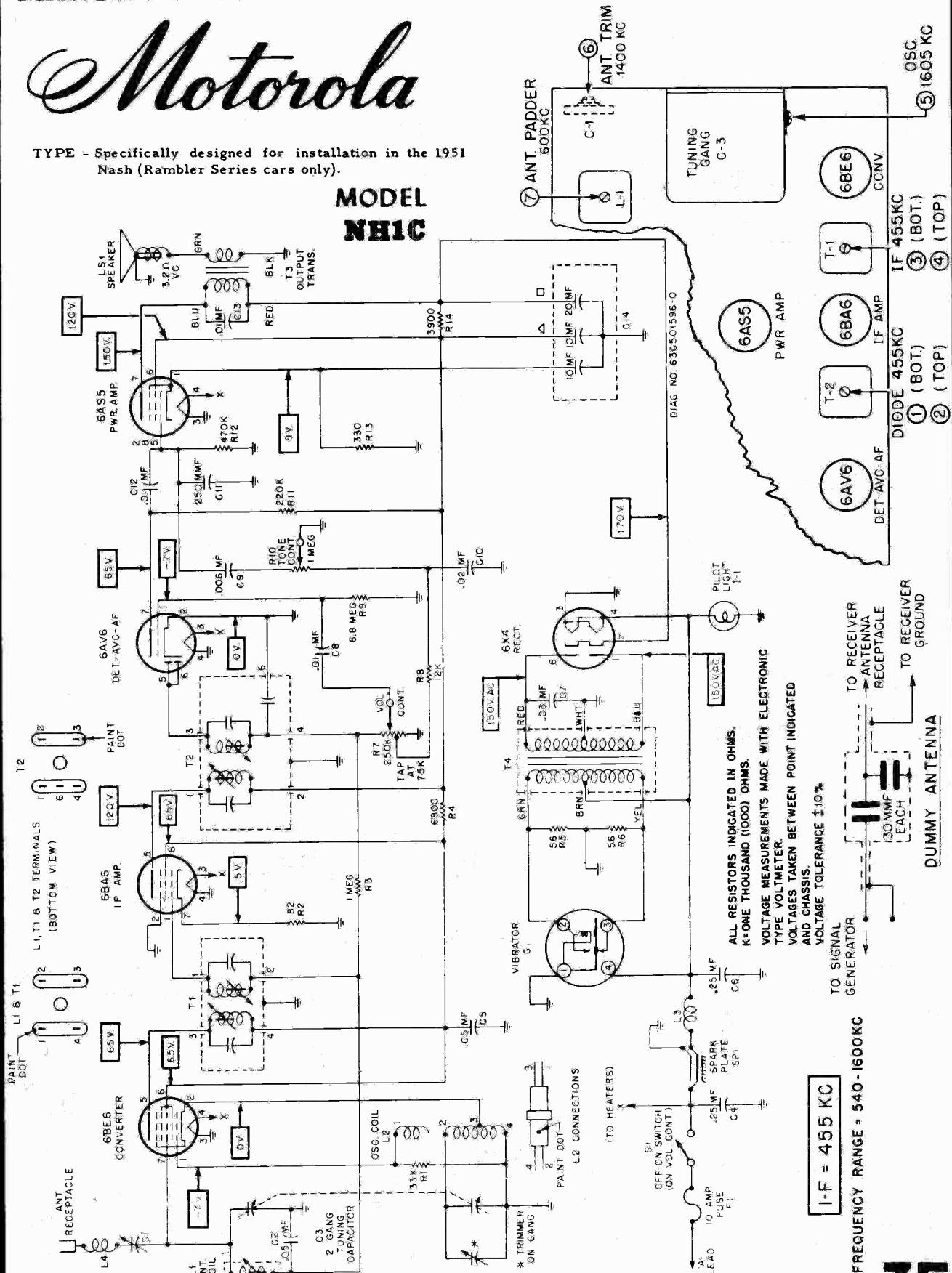


MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Motorola

TYPE - Specifically designed for installation in the 1951 Nash (Rambler Series cars only).

MODEL NH1C



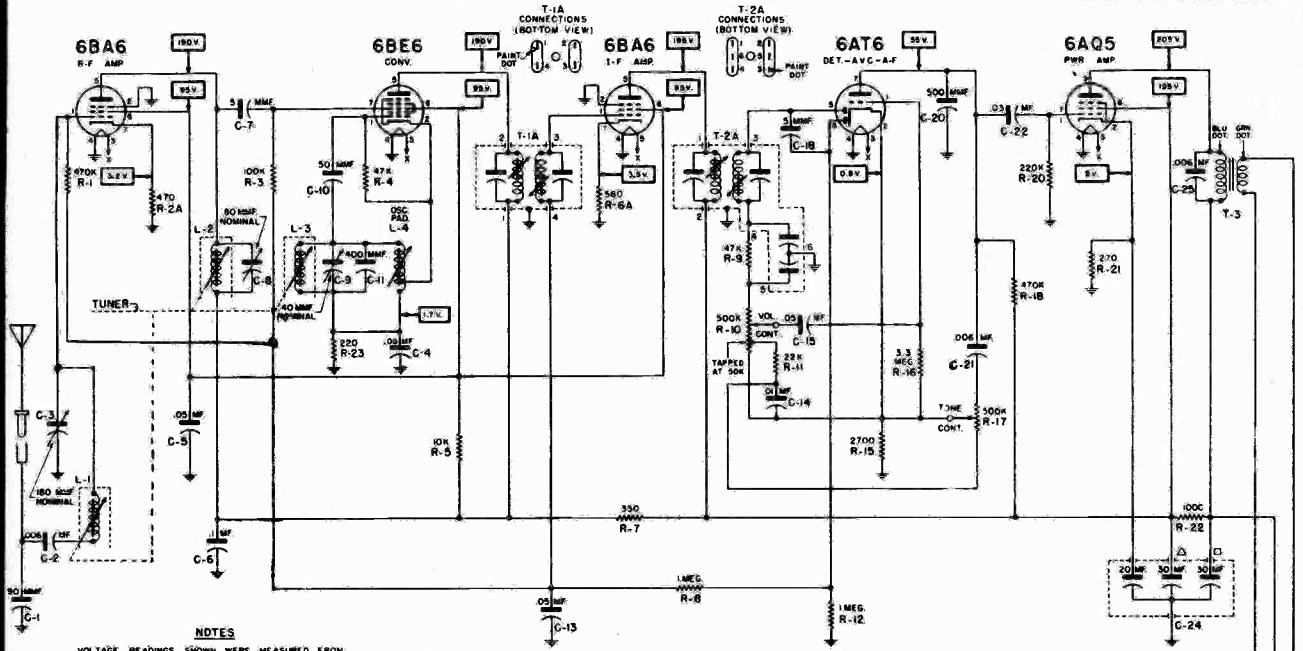
DIAG. NO. 63C501596-0

ALL RESISTORS INDICATED IN OHMS.
K=ONE THOUSAND (1000) OHMS.
VOLTAGE MEASUREMENTS MADE WITH ELECTRONIC
TYPE VOLTMETER.
VOLTAGES TAKEN BETWEEN POINT INDICATED
AND CHASSIS.
VOLTAGE TOLERANCE $\pm 10\%$

I-F = 455 KC

FREQUENCY RANGE = 540-1600KC

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS



NOTES

VOLTAGE READINGS SHOWN WERE MEASURED FROM POINT INDICATED TO CHASSIS WITH A VTVM. NO SIGNAL WAS TUNED IN. INPUT VOLTAGE WAS 6.3V DC AT BAT. RECEPTACLE. VOLTAGE TOLERANCE ± 10%.

ALL RESISTORS INDICATED IN OHMS. K = ONE THOUSAND (1000) OHMS.

CONNECT TO CONVENTIONAL SOURCE OF BATTERY POWER (6 VOLTS!)
 10 AMP FUSE
 F-1
 'A' LEAD ASSEMBLY

1-F = 455 KC

FREQUENCY RANGE - 535 TO 1600 KC

MODELS

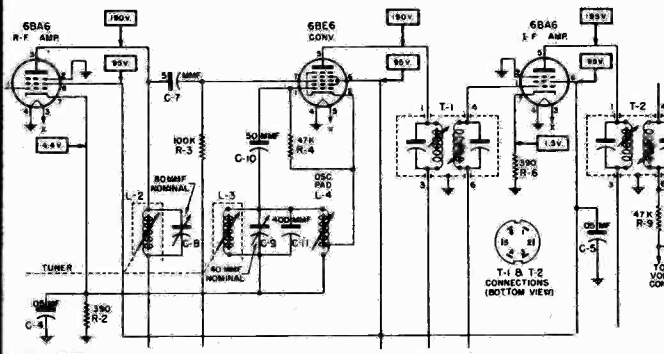
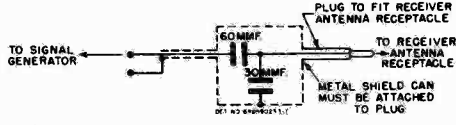
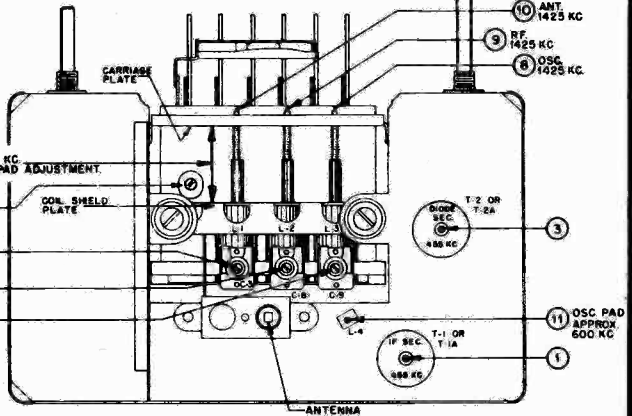
- BK0A
- CT8A
- GM9TA
- GMOT
- HNO
- ILOT C
- KR9A
- OEO
- PCO
- PC9A
- SR9A



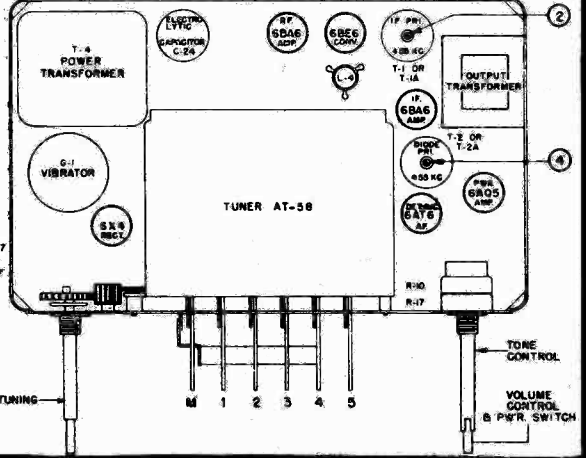
CHASSIS 10A

SET TO 1-3/4" FOR 1425 KC
 SET TO 1-7/32" FOR OSC. PAD ADJUSTMENT.

POINTER ADJUSTMENT ECCENTRIC



OLD IF CIRCUIT

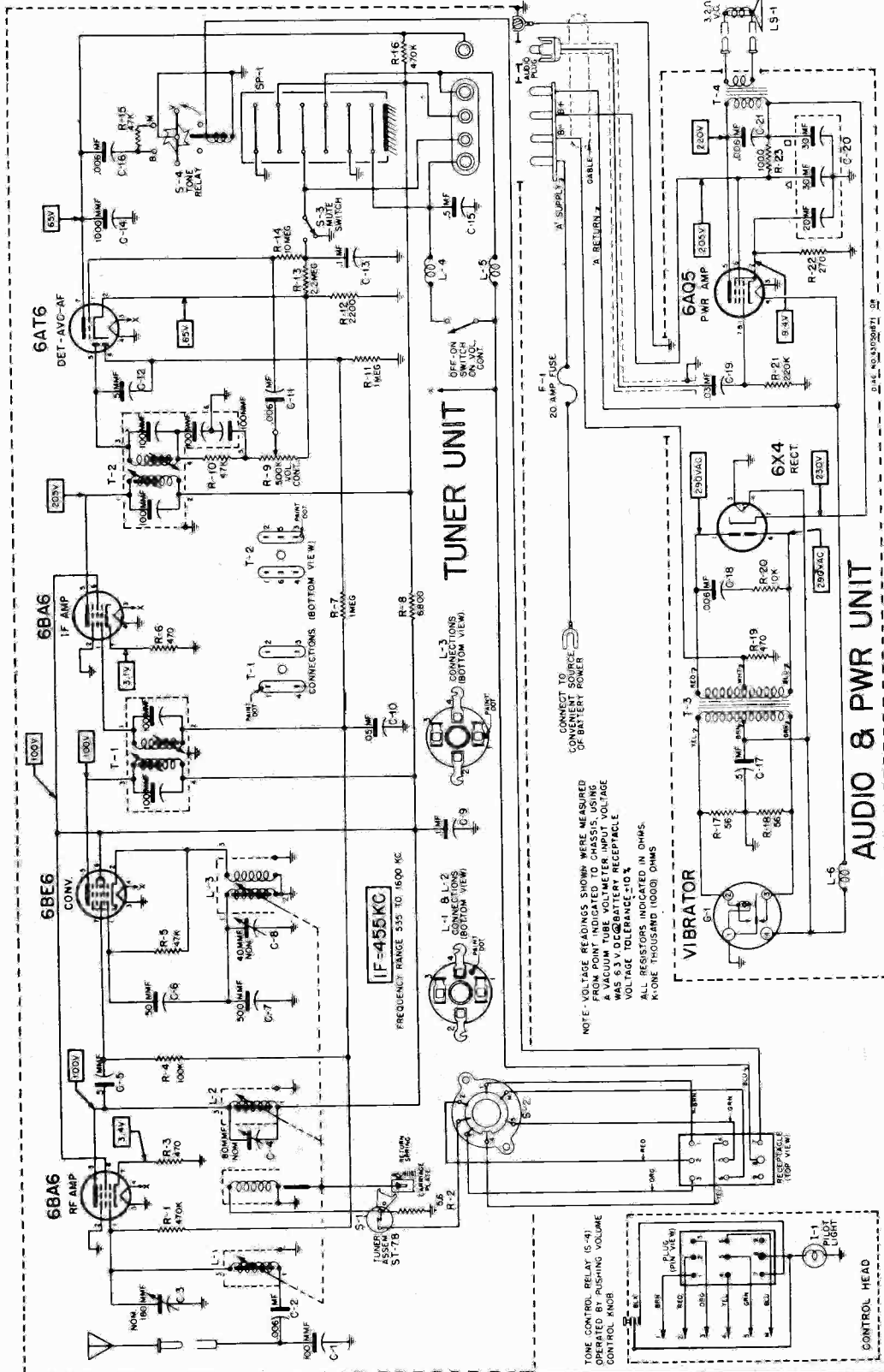


MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Motorola

Model 701 circuit is shown on this page.

Model 801 tuner unit is as shown, while the audio unit differs mainly in using two 6AQ5 tubes in the output stage.



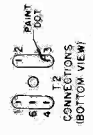
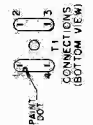
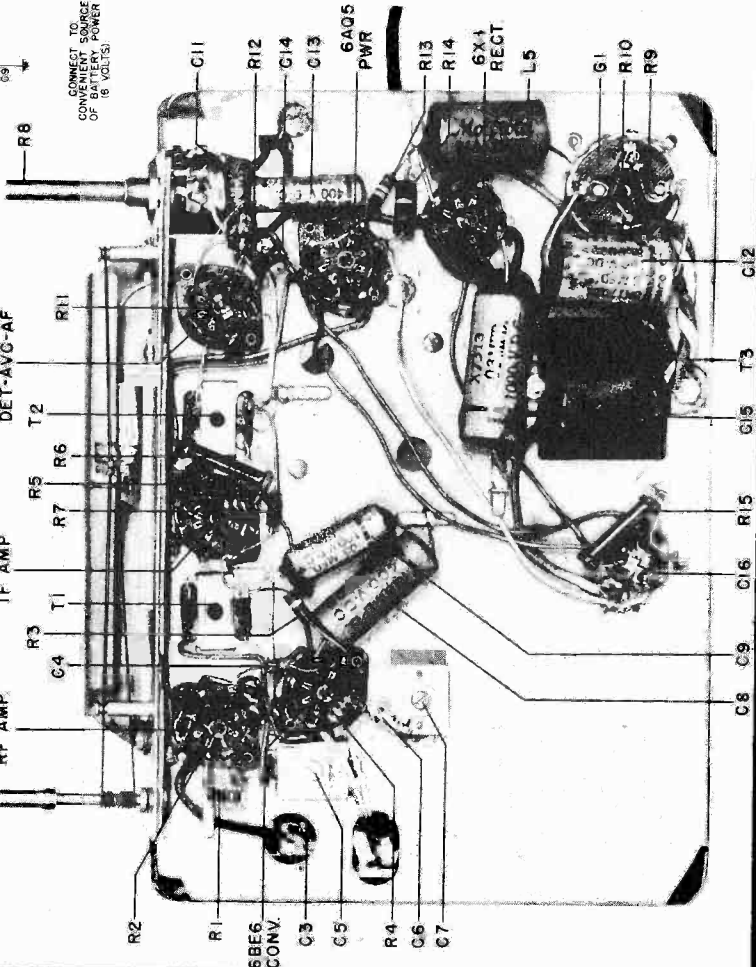
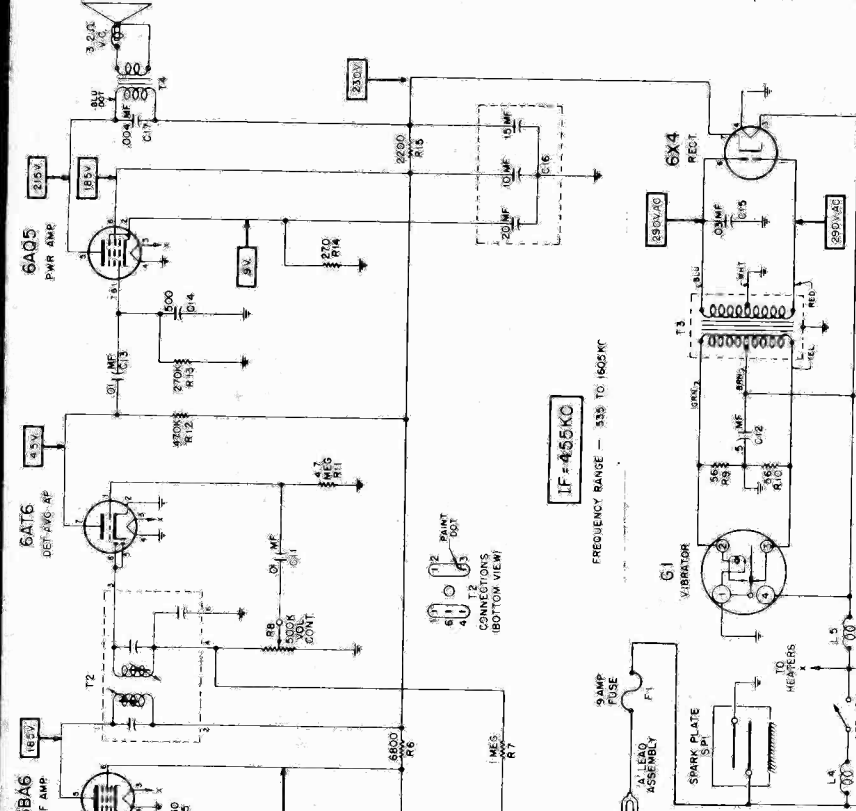
MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Motorola Inc.

Models 401 and 451

Model 401 uses a self-contained speaker and its circuit is exactly as shown on this page. Model 451 employs an external speaker, but is the same as the 401 in all other respects.

NOTE—
 CAPACITORS INDICATED IN MMF UNLESS OTHERWISE SPECIFIED.
 ALL RESISTOR INDICATED IN OHMS UNLESS OTHERWISE SPECIFIED.
 K= ONE THOUSAND (1000) OHMS
 VOLTAGE MEASUREMENTS MADE WITH ELECTRONIC TYPE VOLTMETER
 VOLTAGES TAKEN BETWEEN POINT INDICATED AND GROUND.
 *VOLTAGE TOLERANCE ±10%
 **VOLTAGE 7% DC
 NO SIGNAL INPUT.

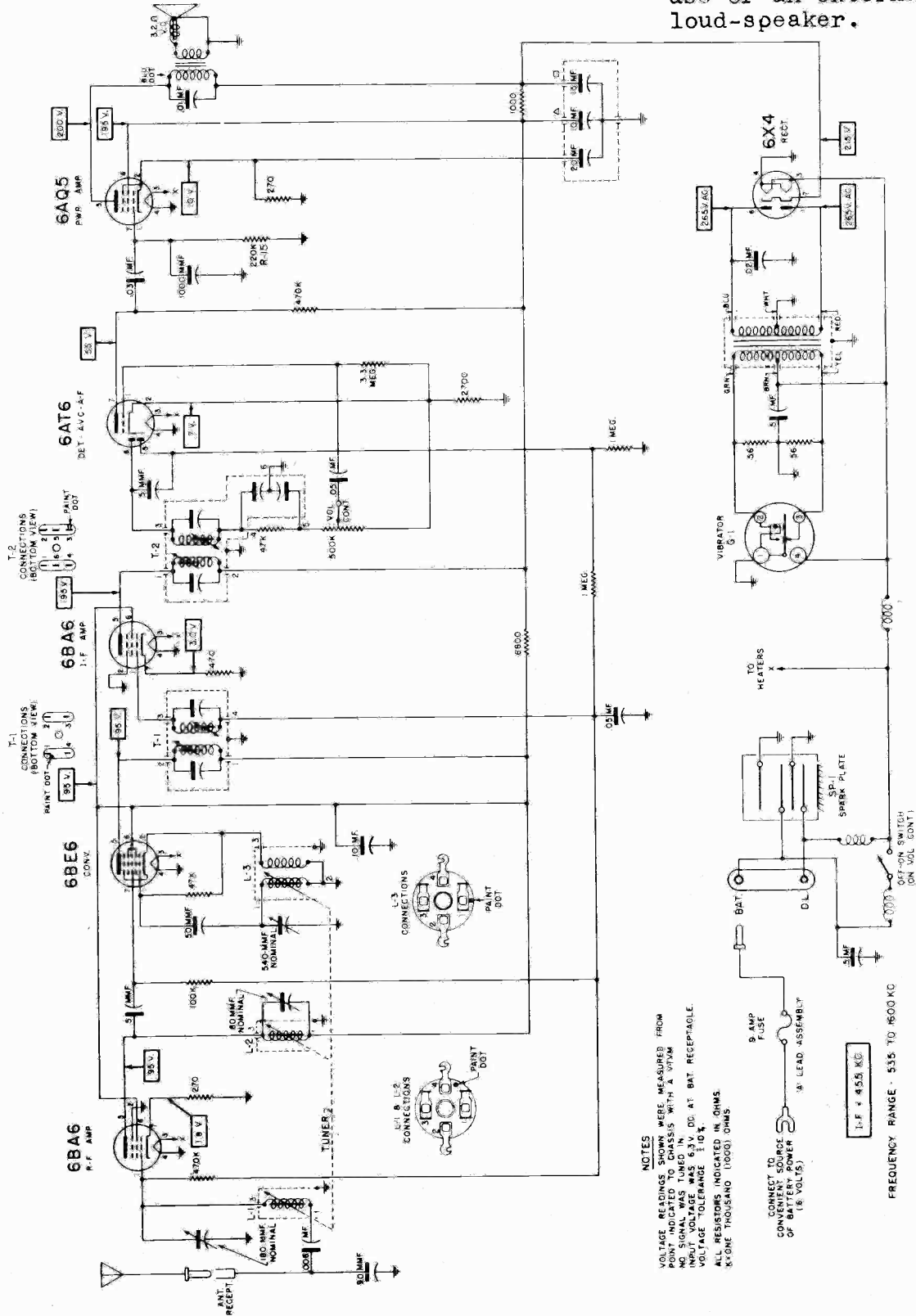


MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Motorola

Model 501, with self-contained speaker, is exactly as per diagram.

Model 601, differs only in the use of an external loud-speaker.



NOTES
 VOLTAGE READINGS SHOWN WERE MEASURED FROM POINT INDICATED TO CHASSIS WITH A VTVM
 NO. 3 SIGNAL WAS TUNED IN. DC. AT BAT. RECEPABLE.
 VOLTAGE TOLERANCE ±10%
 ALL RESISTORS INDICATED IN OHMS.
 K=ONE THOUSAND (1000) OHMS

CONNECT TO CONVENTIONAL SOURCE OF BATTERY POWER (1.8 VOLTS)

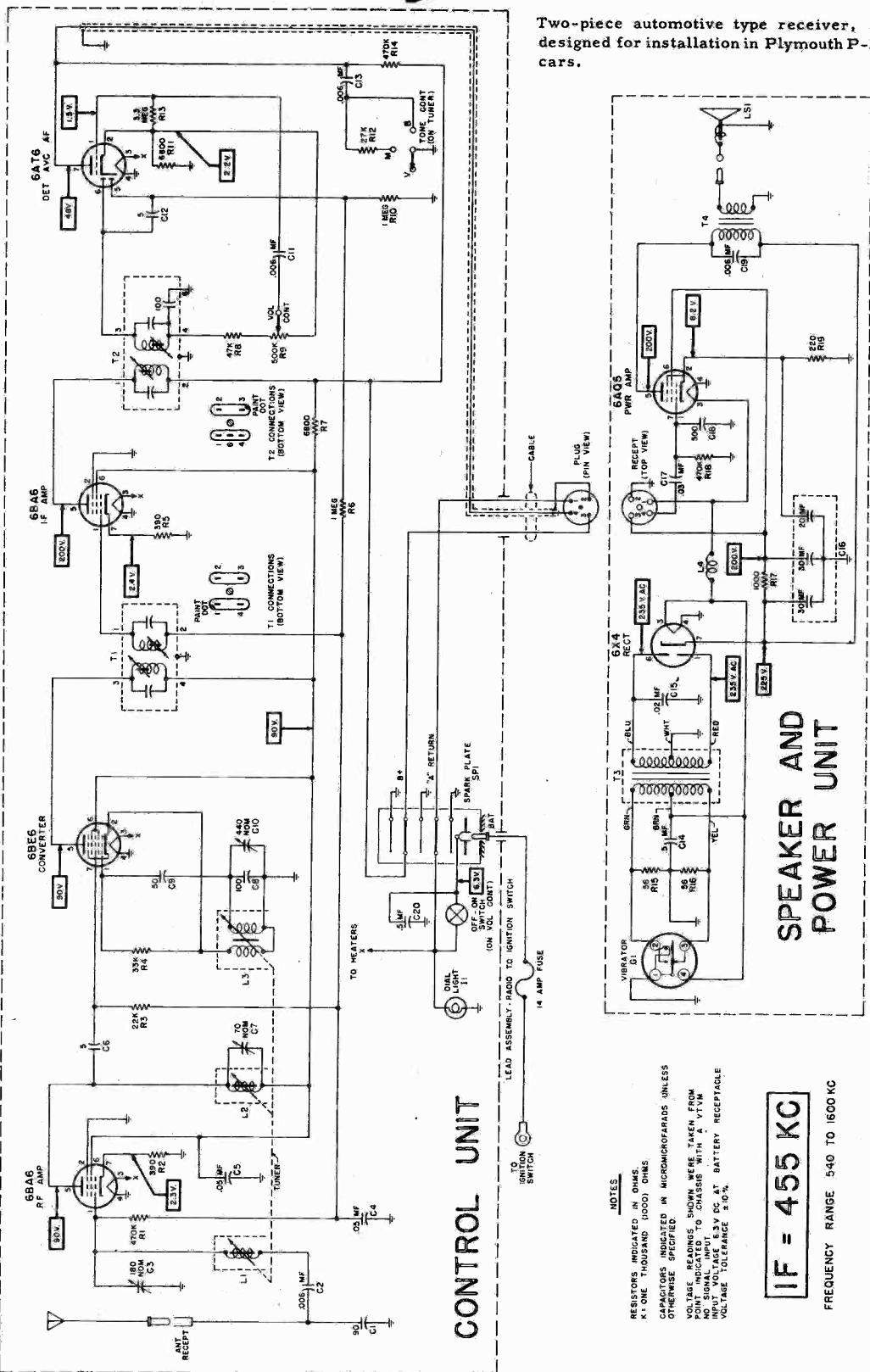
I.F. 455 KC

FREQUENCY RANGE - 535 TO 1600 KC

Motorola **AUTO** Radio

MODEL
606

Two-piece automotive type receiver, specifically designed for installation in Plymouth P-22 and P-23 cars.



NOTES
 RESISTORS INDICATED IN OHMS.
 K = ONE THOUSAND (1000) OHMS.
 CAPACITORS INDICATED IN MICROMEGARADS UNLESS OTHERWISE SPECIFIED.
 VOLTAGE READINGS SHOWN WERE TAKEN FROM NO SIGNAL INPUT TO CHASSIS WITH A VTVM.
 INPUT VOLTAGE 6.3V DC AT BATTERY RECEPTACLE.
 VOLTAGE TOLERANCE ±0.5%.

IF = 455 KC

FREQUENCY RANGE 540 TO 1600 KC

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Motorola **AUTO** Radio

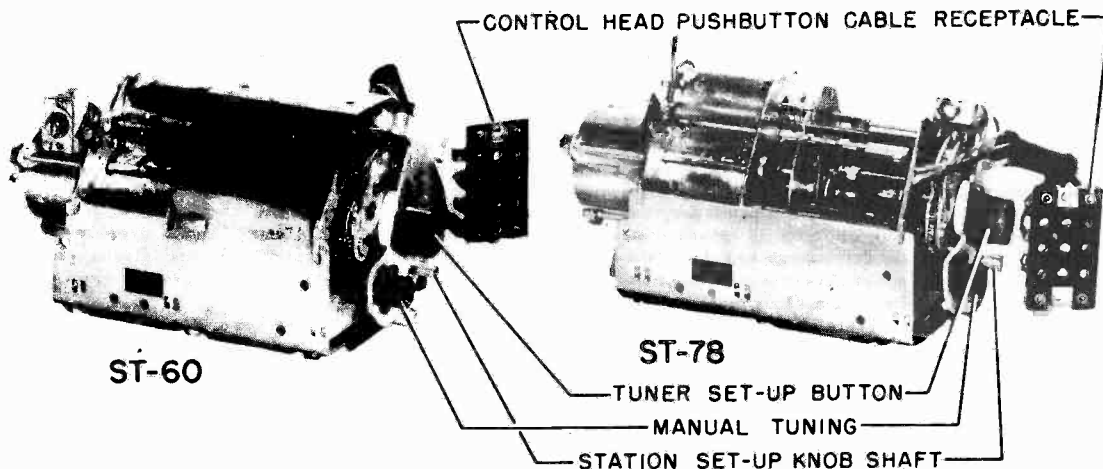
SERVICE MANUAL

SOLENOID
TUNER

MODELS

ST-60

ST-78



GENERAL

Solenoid Tuners ST-60 and ST-78 are used in Motorola electric push-button standard auto receivers.

Fundamentally ST-60 and ST-78 tuners are the same. The two tuners differ in push-button switch lead lengths, oscillator coil, sleeve and shield, tuning cores, antenna trimmer and cover over ST-60 carriage. These tuners are similar to the original Motorola ST-54 solenoid tuner.

This is a 3 gang permeability type tuner operated by a solenoid. Five pre-set and one manual tuning positions are provided. The frequency range is 535 to 1600 kc. The pre-set positions can be set to any frequency within this range.

The tuner is designed to operate satisfactorily with 4.5 to 7.3 volts input. Before attempting any service work on a tuner that operates too slowly or one that doesn't operate at all, check the battery voltage directly at the receiver

spark plate. Normally, this voltage is 6.3 volts. At the moment any push-button is pressed, the voltage at the spark plate should not drop to less than 4.5 volts. If the voltage is less than 4.5, it is an indication of poor wiring between the car battery and receiver or a defective car battery.

This tuner depends on "dash-pot" action between the plunger and the solenoid for proper operation. When the fit between the plunger and solenoid is too tight, the air can't get out fast enough. The result is a slow or sluggish operating tuner. All ST-60 and ST-78 tuners have an adjustable air release in the solenoid end plate. See Figures 1 & 3.

The tuner solenoid coil must be in a horizontal or near horizontal position or the tuner will not operate properly. If it is operated with the coil in a vertical position, the solenoid and carriage return spring may not be strong enough to operate the tuner.

TO SET UP AUTOMATIC TUNER

- a. Turn receiver on and allow it to warm up for a few minutes.
- b. Collapse antenna until signal is weak.
- c. Press Manual "M" button on control head.
- d. Turn tuning knob until desired station is tuned in. (Make a mental note of the program). For best results choose only local stations.
- e. Press desired button and wait until tuning mechanism completes its operation.
- f. Press automatic tuner set-up button until "click" is heard. (See detail above.)
- g. Turn automatic tuner set-up knob until previously noted program is heard. NOTE: Check the setting of the automatic button just set up by pressing the "M" button and manually tune in the station. There should be no difference in volume or clarity when the station is tuned in either manually or automatically. If a difference is noted, reset the automatic tuner push button more accurately by repeating above procedure. Also make sure the push button is set to same station that was selected manually and not to a weak distant station carrying the same network program.
- h. Repeat steps c, d, e, f and g for balance of buttons.

(This material is continued on the following pages through page 86.)

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

MOTOROLA Auto Radio Solenoid Tuner, Models ST-60 and ST-78, continued.

THEORY OF OPERATION

NOTE: Throughout these paragraphs, it is suggested that constant reference be made to Figure 1.

When any push-button is pressed, current flows through the solenoid coil, causing the plunger to pull into the coil. Near the end of the plunger travel, through a ratchet mechanism inside the plunger, the selector switch shaft is rotated 60°, moving the selector switch and stop plate to their new position.

An instant later, the solenoid switch is opened breaking solenoid current and the carriage return spring then pulls the plunger out, closing the solenoid switch again. If the selector switch is now resting at the position selected by the push-button (cut away section of selector switch resting in front of contact selected by push-button), the solenoid plunger will continue to be pulled out until the stop plate is resting on the selected lead screw stop. In the event the selector switch is not resting in the position selected by the push-button when the solenoid plunger is on its return trip, the moment the plunger moves out far enough to actuate the solenoid switch, current will again flow through solenoid causing the plunger to be pulled in again. The plunger's inward motion again rotates the stop plate and selector switch through another 60°. This last operation is repeated automatically until the selector switch comes to rest at the position selected by the push-button, at which time the solenoid circuit is opened and the plunger moves out until the

stop plate is resting on the selected lead screw stop. The stops are adjusted to the desired positions during the station setting up procedure, through the set-up gear train assembly.

Refer to Figure 2 for mechanics behind station setting-up mechanism detail.

When the button on which a station is to be set up is first pressed, the tuner operates and the stop plate comes to rest against the selected lead screw stop. The pressure of the stop plate against the lead screw stop moves the lead screw forward until its shoulder rests against the tuner end plate. The square end of the lead screw does not engage in the square hole of the set-up gear until the set-up button is pushed in and the station set-up knob is turned. A latch on one end of the detent lever engages the gear lever, holding the set-up gear train in contact with the selected lead screw. Now the selected lead screw stop can be moved on its lead screw by turning the station set-up knob. None of the other lead screws turn because the stop plate is not resting against them. After the button is set up, pressing any other button will unlatch the gear lever and disengage the lead screw from the set-up gear. See Figure 2.

Since the coil tuning iron cores are attached to the carriage plate and move in unison with the plunger, the point at which they are brought to a stop (by means of the lead screw stop) determines the frequency to which the coils are tuned.

TO REMOVE TUNER FROM CHASSIS

Should it become necessary to remove the solenoid tuner from the receiver chassis, proceed as follows:

1. Remove the covers from the set, completely exposing the chassis.
2. Mark all leads connecting tuner to receiver.

3. Disconnect all leads connecting tuner to receiver. The control head connecting receptacle is to be removed by unscrewing the two self-tapping screws. Do not unsolder leads from the tuner selector switch.

4. The tuner is held to the chassis by self-tapping screws driven into the sides of the tuner. Do not remove any other screws.

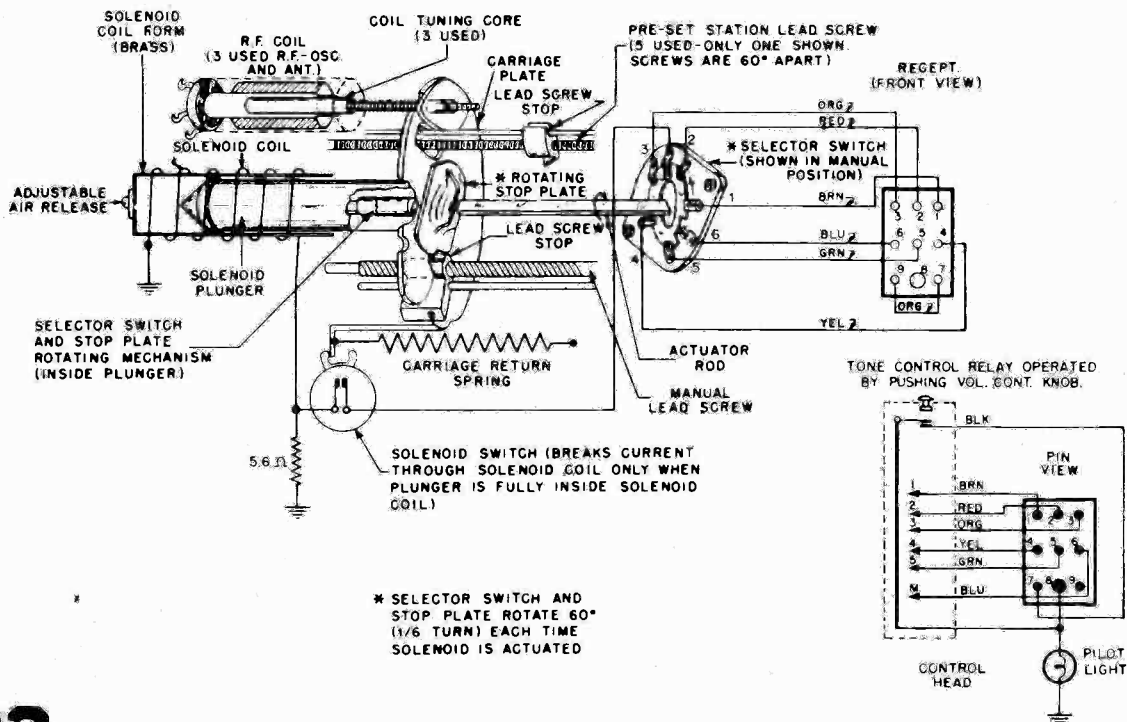


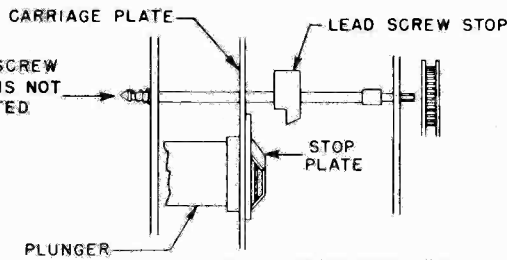
FIGURE 1. TUNER FUNCTIONAL DETAIL

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

MOTOROLA Solenoid Tuner, Models ST-60 and ST-78, continued.

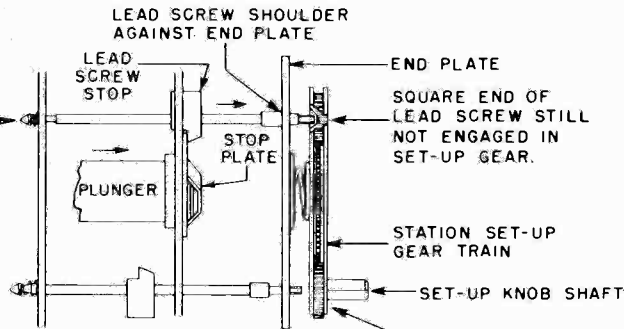
1.

POSITION OF LEAD SCREW WHEN STOP PLATE IS NOT RESTING ON SELECTED LEAD SCREW STOP.



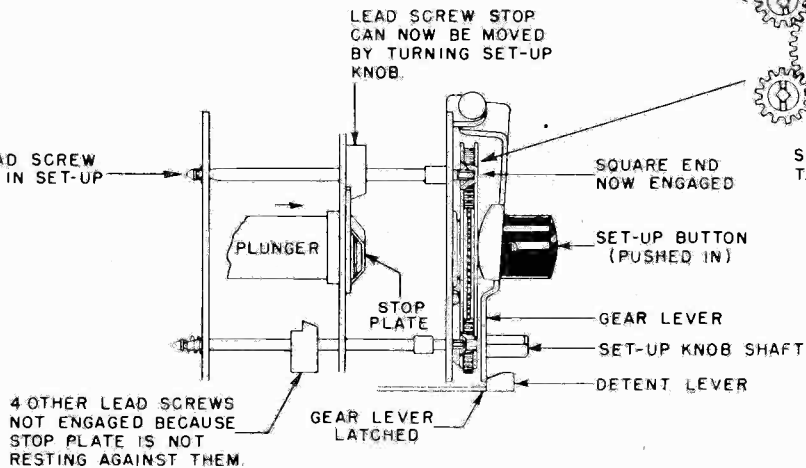
2.

POSITION WHEN STOP PLATE IS RESTING AGAINST LEAD SCREW STOP.



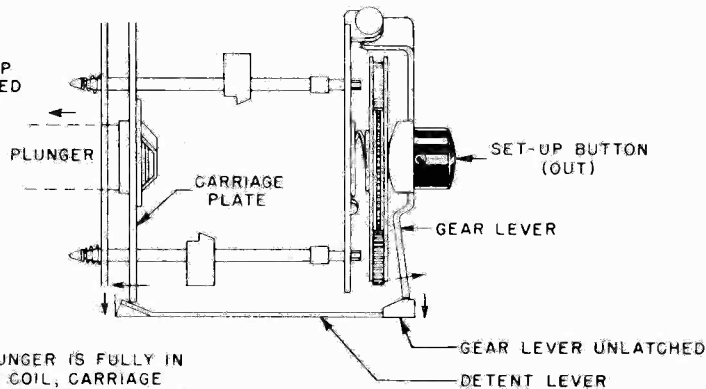
3.

SELECTED LEAD SCREW NOW ENGAGED IN SET-UP GEAR.



4.

AFTER STATION IS SET UP GEAR LEVER IS UNLATCHED BY PRESSING A BUTTON



WHEN PLUNGER IS FULLY IN SOLENOID COIL, CARRIAGE PLATE RELEASES GEAR LEVER AS SHOWN, DISENGAGING LEAD SCREW FROM SET-UP GEAR.

FIGURE 2. STATION SET-UP MECHANISM

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

MOTOROLA Auto Radio Solenoid Tuner Models ST-60 and ST-78, continued.

ADJUSTMENTS

AIR RELEASE ADJUSTMENT

The speed at which the tuner operates is governed by dash-pot action of the solenoid plunger within the closed solenoid coil form. The rate at which air is allowed to enter or escape determines the speed of the plunger.

An adjustable air release is provided on all ST-60 and ST-78 tuners. See Fig. 3. To adjust, loosen the screw and move the eccentric washer which covers the air release hole to expose or cover more of the air release hole as required.

1. If tuner operates too slowly, open the air release hole. Open it only far enough to secure reliable operation. Too little "dash-pot" action (air release open too much) may cause the plunger to hammer and sometimes even to make the tuner operate continuously due to the selector switch rotor being turned so rapidly as to overshoot its contacts.
2. If the tuner operates too rapidly increase dash-pot action by closing the air release hole slightly. Close it only enough to eliminate hammering.

PLUNGER RATCHET ADJUSTMENT

The plunger ratchet mechanism is shown in Figure 4. This mechanism rotates the actuator rod which, in turn, rotates the carriage stop plate and the selector switch 60° for each inward motion of the plunger.

If this adjustment is incorrect, tuner may operate continuously once current is applied.

Correct ratchet adjustment is indicated when 1/64" to 1/32" clearance is observed between selector switch contacts and the selector switch rotor as shown in Figure 5. Slowly work the plunger by hand and observe clearance at each contact position. If the average clearance is not 1/64" to 1/32", correction can be made by loosening ratchet adjustment setscrew and turning actuator rod by hand until correct clearance is observed.

Before ratchet adjustment setscrew is finally tightened, push fixed ratchet 1/32" back into plunger. This increases spring tension against rotating ratchet, thus insuring more positive operation.

SOLENOID SWITCH TRIP ADJUSTMENT

The solenoid switch tripping mechanism should be adjusted as shown in Figure 6.

If the solenoid switch is tripped too early, the ratchet mechanism may fail to operate; if it trips too late, the plunger may hammer violently or should the solenoid switch fail to trip, the plunger would be held within the solenoid.

FAILURE OF SOME LEAD SCREW TO ENGAGE IN SET-UP GEARS

If some of the lead screws fail to engage in the set-up gears during station setting up procedure, check the gear lever to see if it is bent. When the set-up button is pushed in and the gear lever latches on the detent lever, the set-up gear train should be parallel with the tuner end plate and the bottom of the gear train should be resting on the raised portions of the tuner end plate.

END VIEW OF TUNER

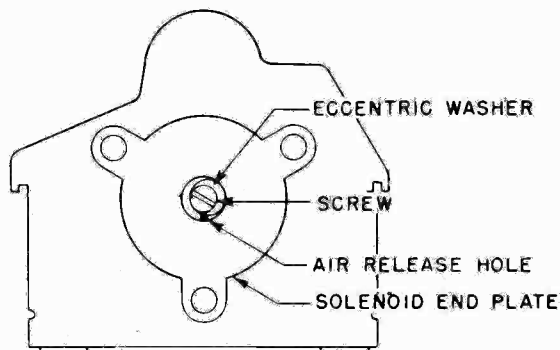


FIGURE 3. AIR RELEASE ADJUSTMENT

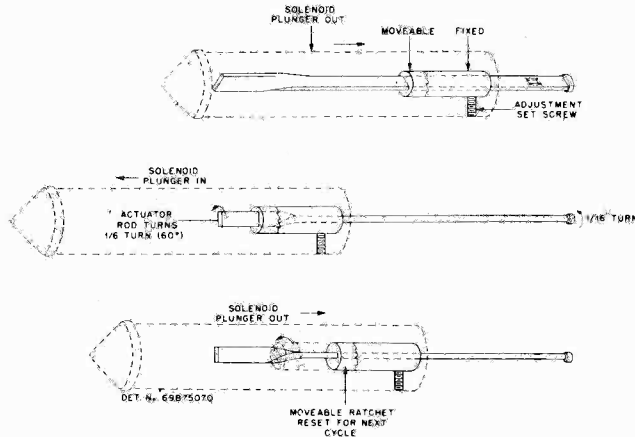


FIGURE 4. PLUNGER RATCHET MECHANISM

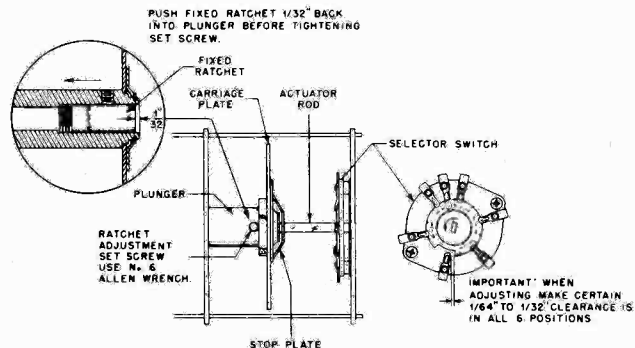


FIGURE 5. PLUNGER RATCHET ADJUSTMENT

SERVICE NOTES

LUBRICATION

Should lubrication ever be required, it is recommended that a very fine grease, commercially called DOW-CORNING Silicone (DC 44 Medium Grade), or its equivalent be used.

Remove all old and sticky lubricant with a solvent such as carbon tetrachloride and then, very sparingly, lubricate only the following points:

1. Carriage guide rods.
2. Actuator rod.
3. Manual lead screw.

Do not lubricate or permit lubricant to get on Selector Switch contacts.

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

MOTOROLA Tuner ST-60, ST-78, continued.

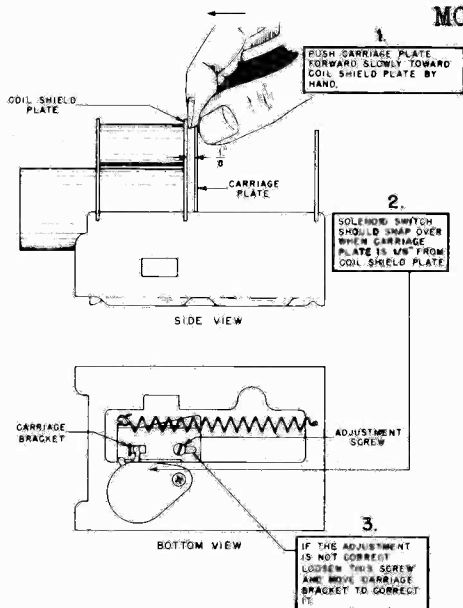


FIGURE 6. SOLENOID SWITCH ADJUSTMENT

LEAD DRESSING

Make sure that the selector switch and solenoid coil leads are dressed so that carriage plate does not rub against them. Leads rubbing against the carriage plate may cause the tuner to stick, especially at the high frequency end.

REPLACEMENT OF SOLENOID COIL OR SOLENOID PLUNGER

Should replacement of the solenoid coil or solenoid plunger be required, it will be necessary to replace the entire tuner. A close fit between solenoid plunger and solenoid coil form is required; a proper match can only be secured at the factory. When service of this kind is required, return the tuner to the factory for exchange.

ALIGNMENT

In the event that some part of the R. F. circuit has been changed or the adjustments shifted by mishandling, it is suggested that the receiver be realigned. Follow the alignment instructions found in the receiver service manual.

The tuner must be in good working order and assembled onto the chassis before attempting alignment of its tuned circuits.

TO REPLACE ANT., R. F., OR OSC. COILS

1. Unsolder the two lugs holding the coil to the tuner plate.
2. Carefully remove the old coil. Save the thin paper washer that is found at the base of the coil.
3. Slip the paper washer over the replacement coil and slip coil into shield can.
4. Orient coil so its lugs are in same position as before and resolder to tuner plate.
5. Reassemble tuner and install in receiver.
6. Realign ANT., R. F. and OSC. stages per instructions found in the receiver service manual.

ADJUSTMENT OF GEAR LEVER LATCH

The gear lever latch holds the station set-up gear train in position while setting up stations. Failure of the latch to engage properly when the set-up button is pushed in will result in the inability to set up pre-set stations. Failure of the latch to disengage after station is set-up will result in faulty automatic tuning because the lead screws might not seat themselves properly against the tuner end plate. Figure 7 shows the latch detail and adjustment.

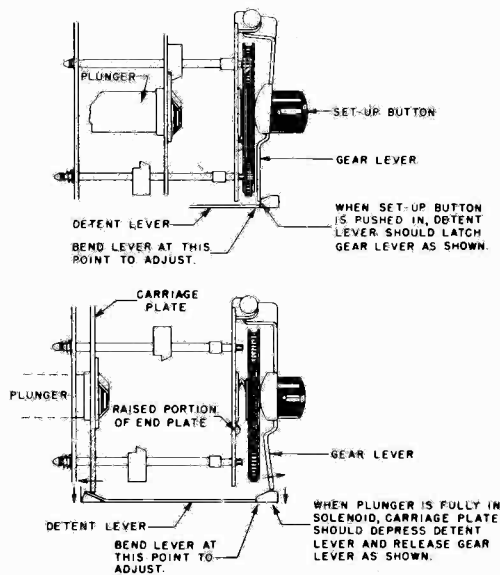


FIGURE 7. GEAR LEVER LATCH ADJUSTMENT

TO REPLACE ANT., R. F. OR OSC. COIL TUNING CORES

1. Remove the carriage return spring.
2. Move the carriage plate back as far as it can go. The tuning cores can now be screwed "out" or "in" by grasping the portion that sticks out the back of the coil. When installing a new core, make sure that the insulating washer and adjustment clip are replaced properly. The insulating washer goes on the core side; the core adjustment clip has an ear on it and this ear must fit into a hole in the bakelite insulator on the carriage plate. Refer to Figure 8.
3. Replace the carriage return spring.
4. Install tuner in receiver.
5. Realign ANT., R. F. and OSC. stages following the instructions found in the receiver service manual.

PLUNGER RATCHET REMOVAL

To remove ratchets, proceed as follows:
(Refer to Figure 8 for parts identification).

1. Remove gear plate mounting screw (55).
2. Pull out actuator rod (46). Don't lose washers (83), (88) and (89).
3. Remove stop plate bracket (4) by sliding it out of the retaining slots.
4. Loosen setscrew (50).
5. The large fixed ratchet (34), small floating ratchet (35) and ratchet spring (70) can now be removed.
6. Reassemble in reverse order.

TUNER HANGS UP

The beginning of this trouble is usually a condition where the tuner "runs wild" (fails to stop at a station). Eventually, the stop plate gets "hung up" by getting on the wrong side of the station stops (56). The cause of the trouble is that the selector switch (74) does not turn the correct amount with each dash of the plunger.

Since the actuator rod (46) determines the rotation of the selector switch, it is usually at fault. Check the twist in the actuator rod. It should be 82 degrees. Also check the fit between the "head" end of the actuator rod (46) and the rotary section of the selector switch (77). We have found that some sloppiness sometimes occurs at this point. If the fit is loose, replace the actuator rod (46). This can be easily done by removing gear plate mounting screw (55).

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

MOTOROLA Solenoid Tuner Models ST-60 and ST-78, continued.

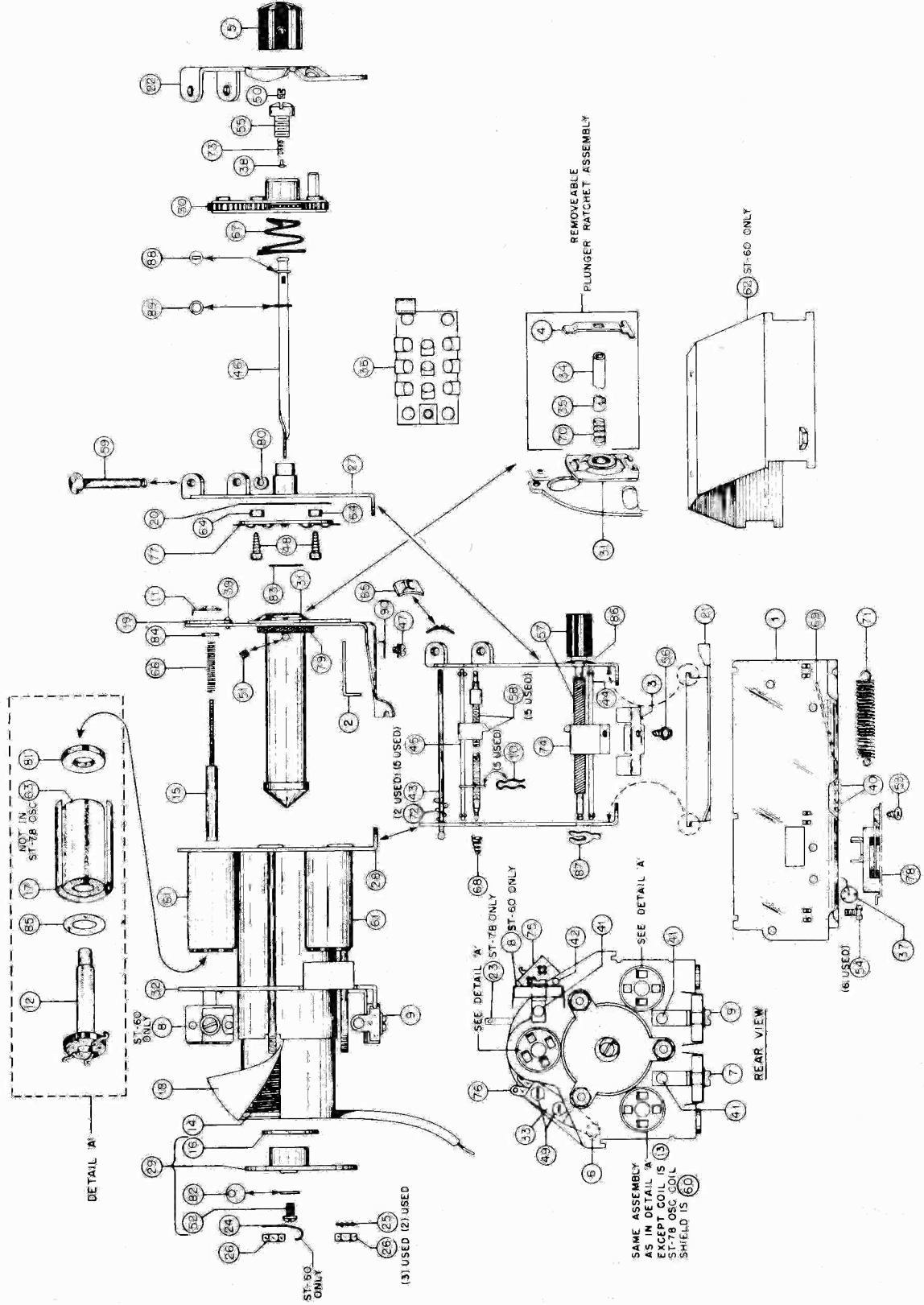


FIGURE 8. PARTS LOCATION

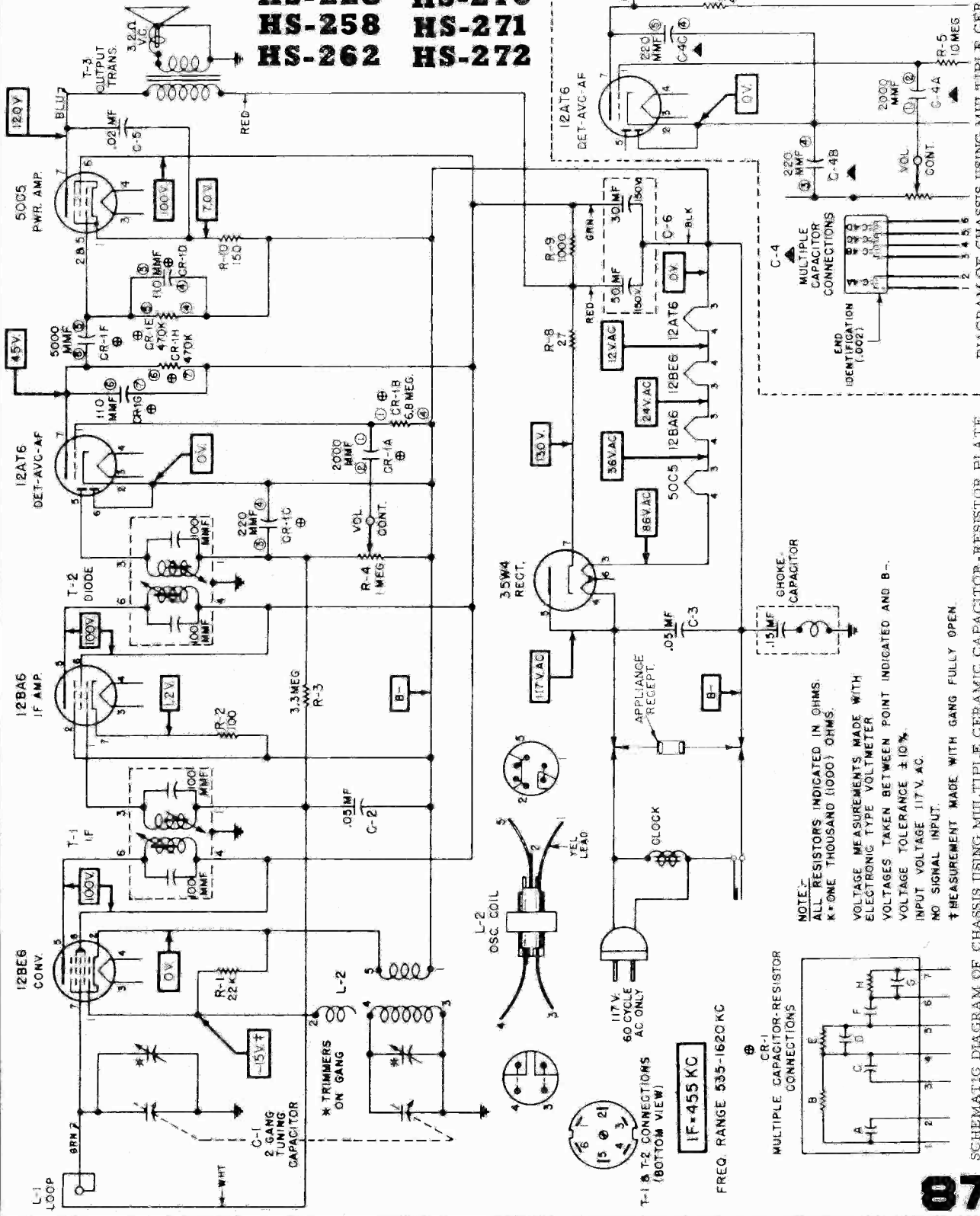
MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

MODELS

5C1 5C4
5C2 5C5
5C3 5C6

Motorola Inc.

CHASSIS **HS-228** CHASSIS **HS-270**
HS-258 CHASSIS **HS-271**
HS-262 CHASSIS **HS-272**



NOTE:
 ALL RESISTORS INDICATED IN OHMS.
 K = ONE THOUSAND (1000) OHMS.
 VOLTAGE MEASUREMENTS MADE WITH
 ELECTRONIC TYPE VOLTMETER
 VOLTAGES TAKEN BETWEEN POINT INDICATED AND B -
 VOLTAGE TOLERANCE ± 10%
 INPUT VOLTAGE 117V. AC.
 † MEASUREMENT MADE WITH GANG FULLY OPEN.

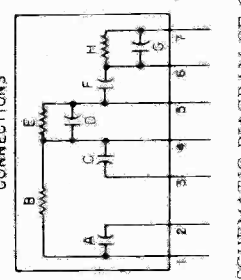
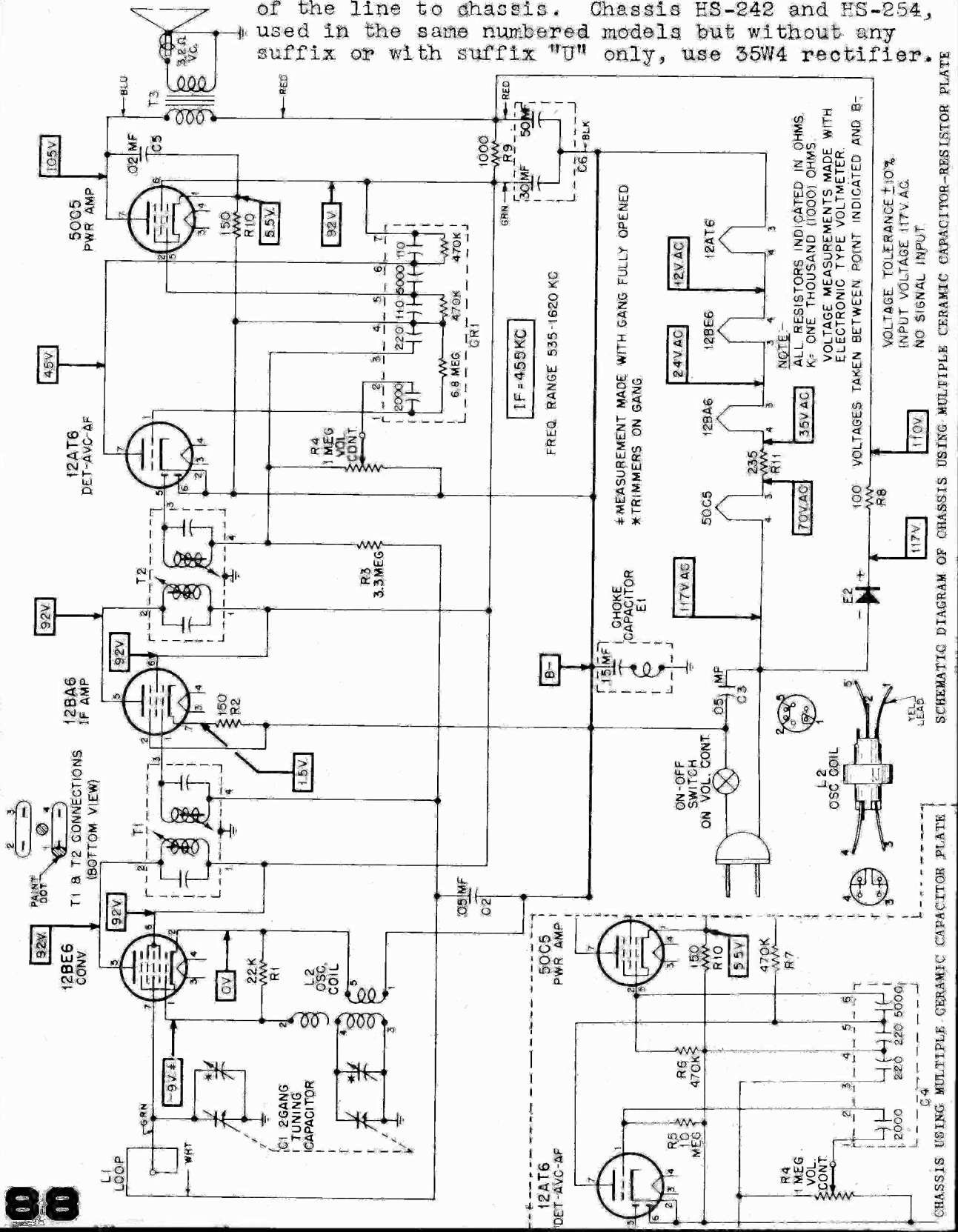


DIAGRAM OF CHASSIS USING MULTIPLE CERAMIC CAPACITOR.

SCHEMATIC DIAGRAM OF CHASSIS USING MULTIPLE CERAMIC CAPACITOR-RESISTOR PLATE

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

MOTOROLA, INC. Circuit diagrams of Models 5R11AU, 5R12AU, 5R13AU, 5R14AU, 5R15AU, 5R16AU, all using Chassis HS-281, are shown on this page. Chassis HS-280, used in the same numbered models but with a suffix "A" (not "AU"), omits choke-capacitor E1 and connects one side of the line to chassis. Chassis HS-242 and HS-254, used in the same numbered models but without any suffix or with suffix "U" only, use 35W4 rectifier.



MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

MODELS
5X11U
5X12U
5X13U

Motorola Inc.
5H11U
5H12U
5H13U

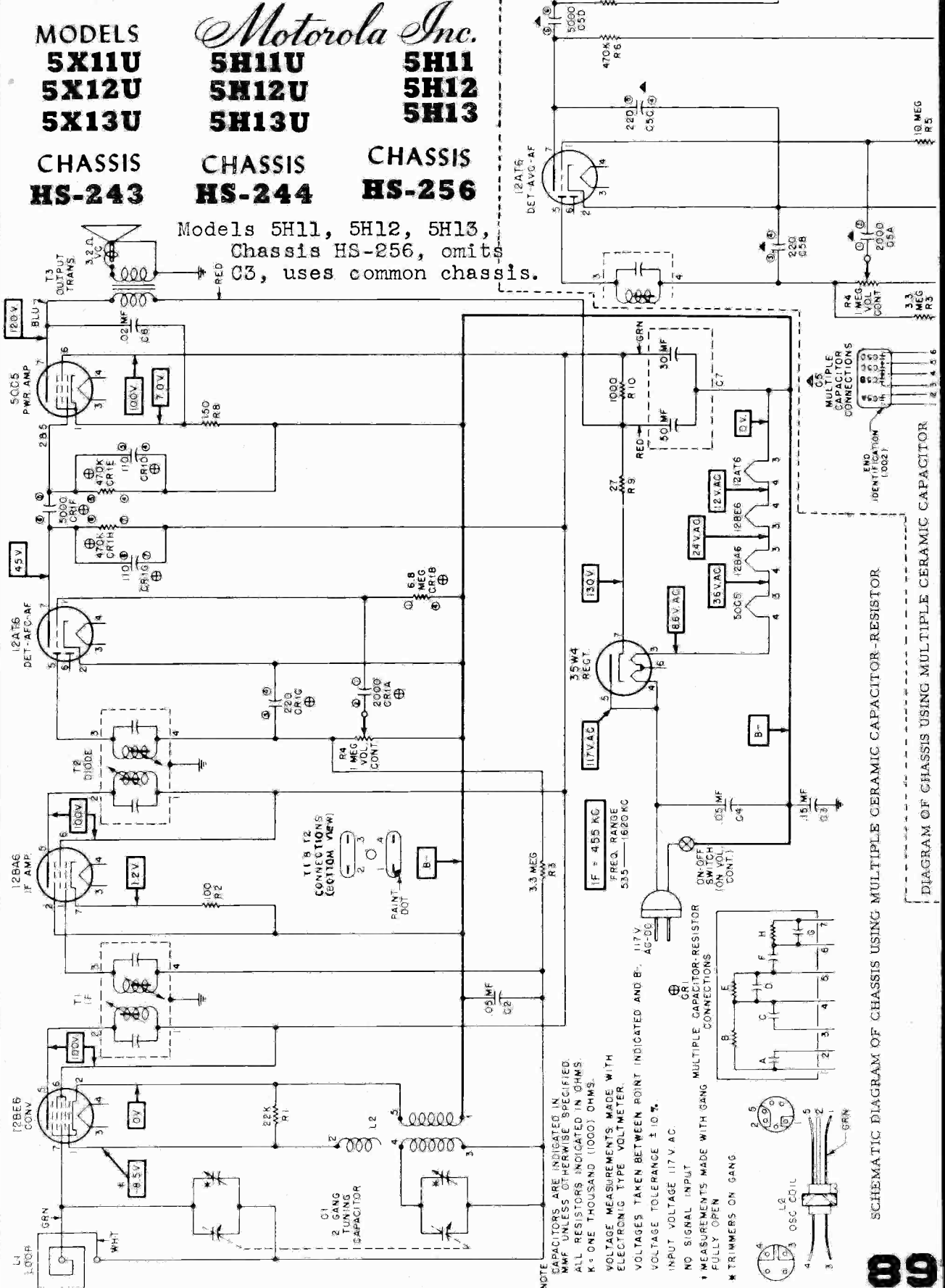
5H11
5H12
5H13

CHASSIS
HS-243

CHASSIS
HS-244

CHASSIS
HS-256

Models 5H11, 5H12, 5H13,
 Chassis HS-256, omits
 C3, uses common chassis.



SCHEMATIC DIAGRAM OF CHASSIS USING MULTIPLE CERAMIC CAPACITOR-RESISTOR

DIAGRAM OF CHASSIS USING MULTIPLE CERAMIC CAPACITOR

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Motorola Inc.

MODELS
6X11U
6X12U

CHASSIS
HS-245

NOTE: CAPACITORS ARE INDICATED IN MWF UNLESS OTHERWISE SPECIFIED. ALL RESISTORS INDICATED IN OHMS. K: ONE THOUSAND (1000) OHMS. VOLTAJE MEASUREMENTS MADE WITH ELECTRONIC TYPE VOLTMETER. VOLTAGES TAKEN BETWEEN POINT INDICATED AND B-.

VOLTAJE TOLERANCE: ± 10%.

INPUT VOLTAJE: 117 V. A.C.

NO SIGNAL INPUT

* MEASUREMENTS MADE WITH GANG FULLY OPEN

† TRIMMERS ON GANG

‡ = CHASSIS GROUND

⊕ = B-

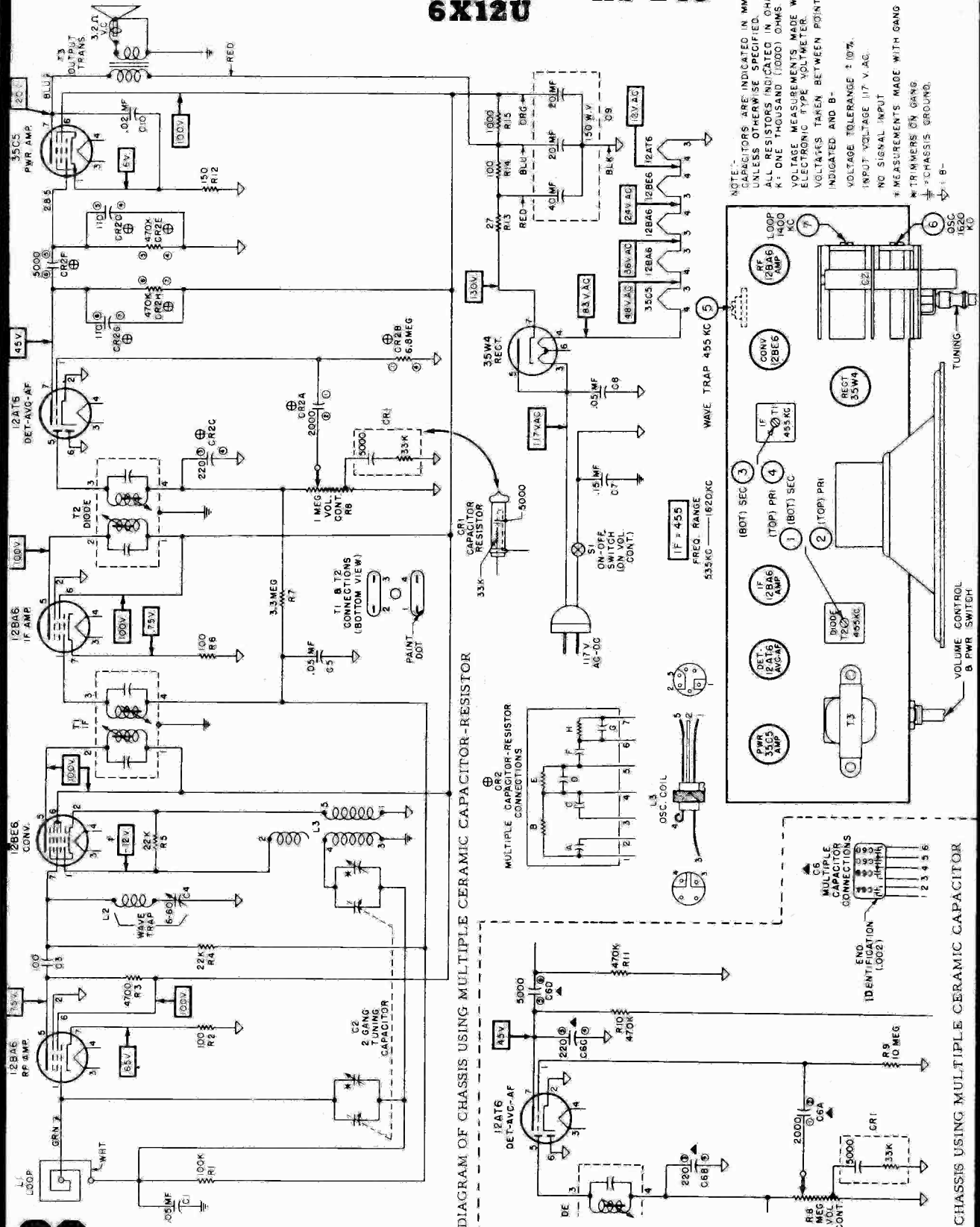


DIAGRAM OF CHASSIS USING MULTIPLE CERAMIC CAPACITOR-RESISTOR

CHASSIS USING MULTIPLE CERAMIC CAPACITOR

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

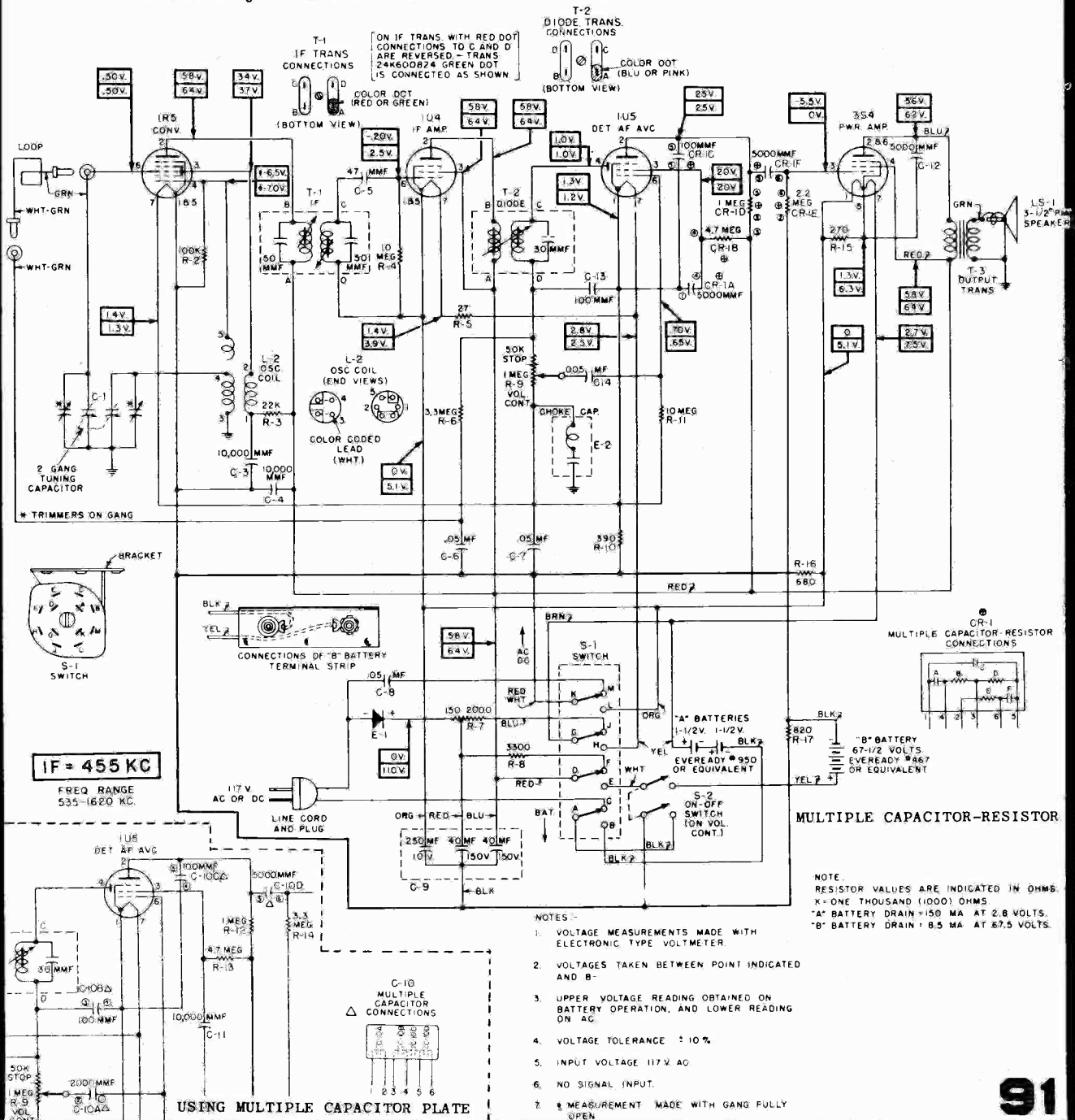
Motorola HOME Radio

MODELS

| | |
|-------|-------|
| 5L1 | 5L1U |
| 5L2 | 5L2U |
| 51L1U | 51L2U |
| 5J1 | 5J1U |
| 5J2 | 5J2U |

CHASSIS
HS-224
HS-250

The models listed at right with the suffix "U" use Chassis HS-224, the other models use Chassis HS-250. The circuit shown is exact for HS-250 using multiple capacitor-resistor plate. The insert diagram in the lower left hand corner shows differences in the HS-250 for a multiple capacitor plate. Chassis HS-224 uses both types of plates and differs from HS-250 in physical assembly and some circuit elements.

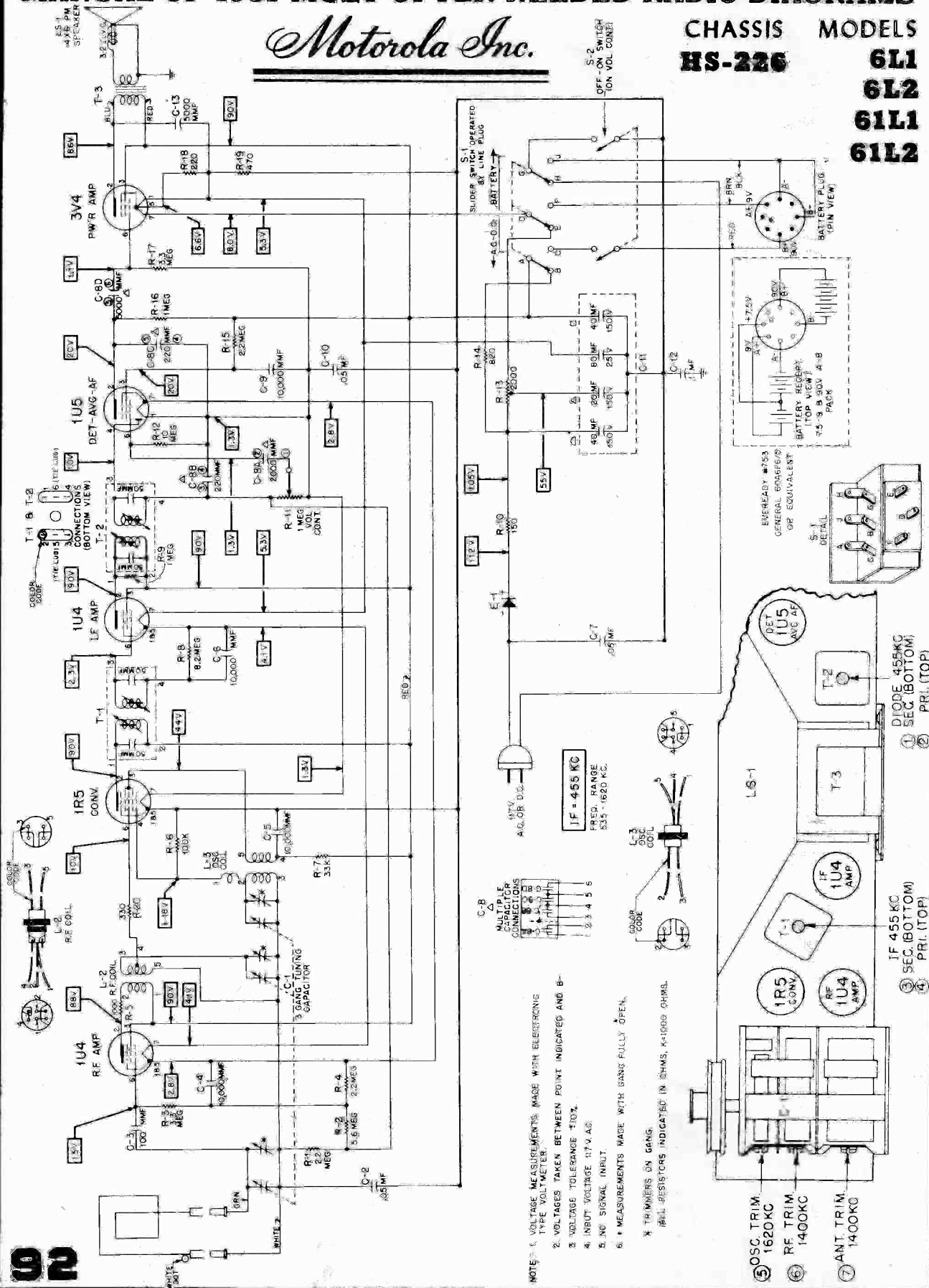


MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Motorola Inc.

CHASSIS MODELS
HS-226

6L1
6L2
61L1
61L2



NOTE: 1. VOLTAGE MEASUREMENTS MADE WITH ELECTRONIC TYPE VOLTMETER.
2. VOLTAGES TAKEN BETWEEN POINT INDICATED AND B-
3. VOLTAGE TOLERANCE $\pm 10\%$.
4. INPUT VOLTAGE 117 V. AC.
5. NO SIGNAL INPUT.
6. * MEASUREMENTS MADE WITH GANG FULLY OPEN.

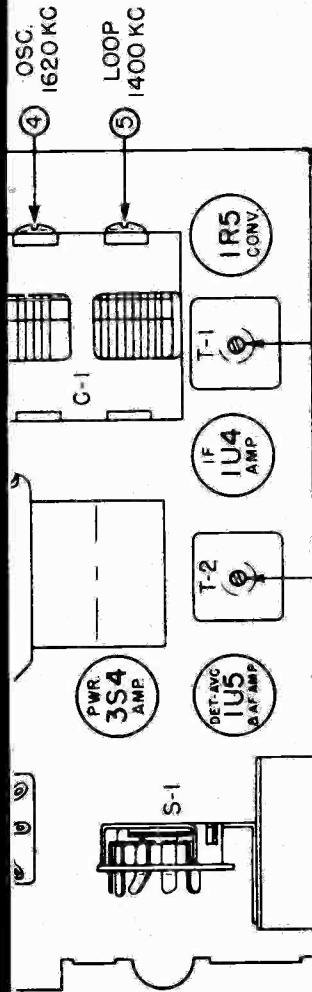
* TRIMMERS ON GANG.
ALL RESISTORS INDICATED IN OHMS, K=1,000 OHMS.

- ⑤ OSC. TRIM. 1620 KC
- ⑥ RF TRIM. 1400 KC
- ⑦ ANT. TRIM. 1400 KC
- ① SEC. (BOTTOM) DIODE 455 KC
- ② PRI. (TOP)
- ③ SEC. (BOTTOM) IF 455 KC
- ④ PRI. (TOP)

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

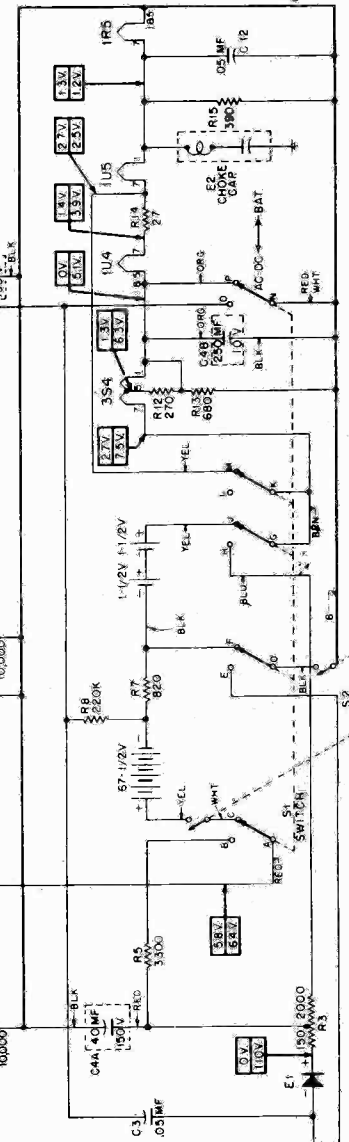
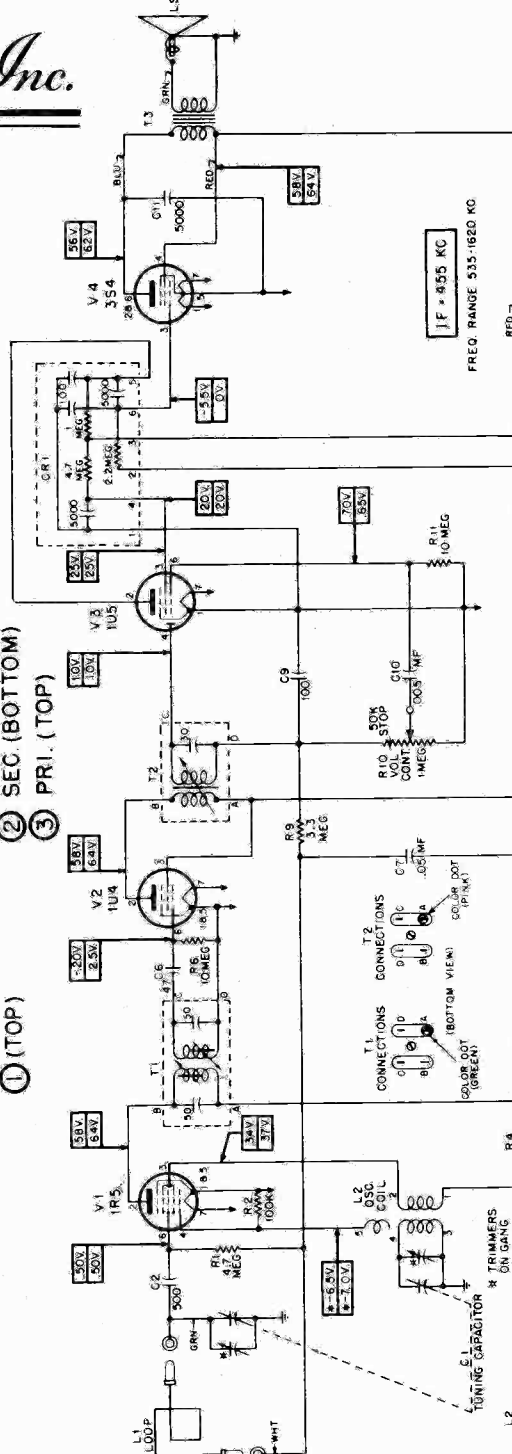
Motorola Inc.

MODELS
51M1U
51M2U
CHASSIS
HS-283

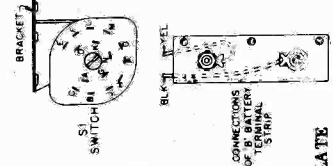


DIODE 455 KC
① (TOP)

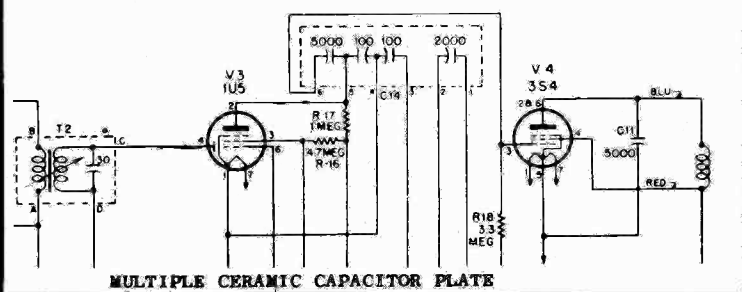
IF 455 KC
② SEC. (BOTTOM)
③ PRI. (TOP)



NOTE - CAPACITORS INDICATED IN MMF UNLESS OTHERWISE INDICATED IN OHMS
K = ONE THOUSAND (1000) OHMS
VOLTAGE MEASUREMENTS MADE WITH ELECTRONIC TYPE VOLTMETER
VOLTAGES TAKEN BETWEEN POINTS INDICATED TOLERANCE $\pm 10\%$
INPUT VOLTAGE 117V AC
NO SIGNAL INPUT
A MEASUREMENT MADE WITH GANG FULLY OPEN
B BATTERY DRAIN 50 MA AT 2.8 VOLTS
C BATTERY DRAIN 85 MA AT 67.5 VOLTS
UPPER VOLTAGE READINGS OBTAINED ON 100% MODULATION AND LOWER READINGS ON AC.



CHASSIS USING MULTIPLE CERAMIC CAPACITOR-RESISTOR PLATE



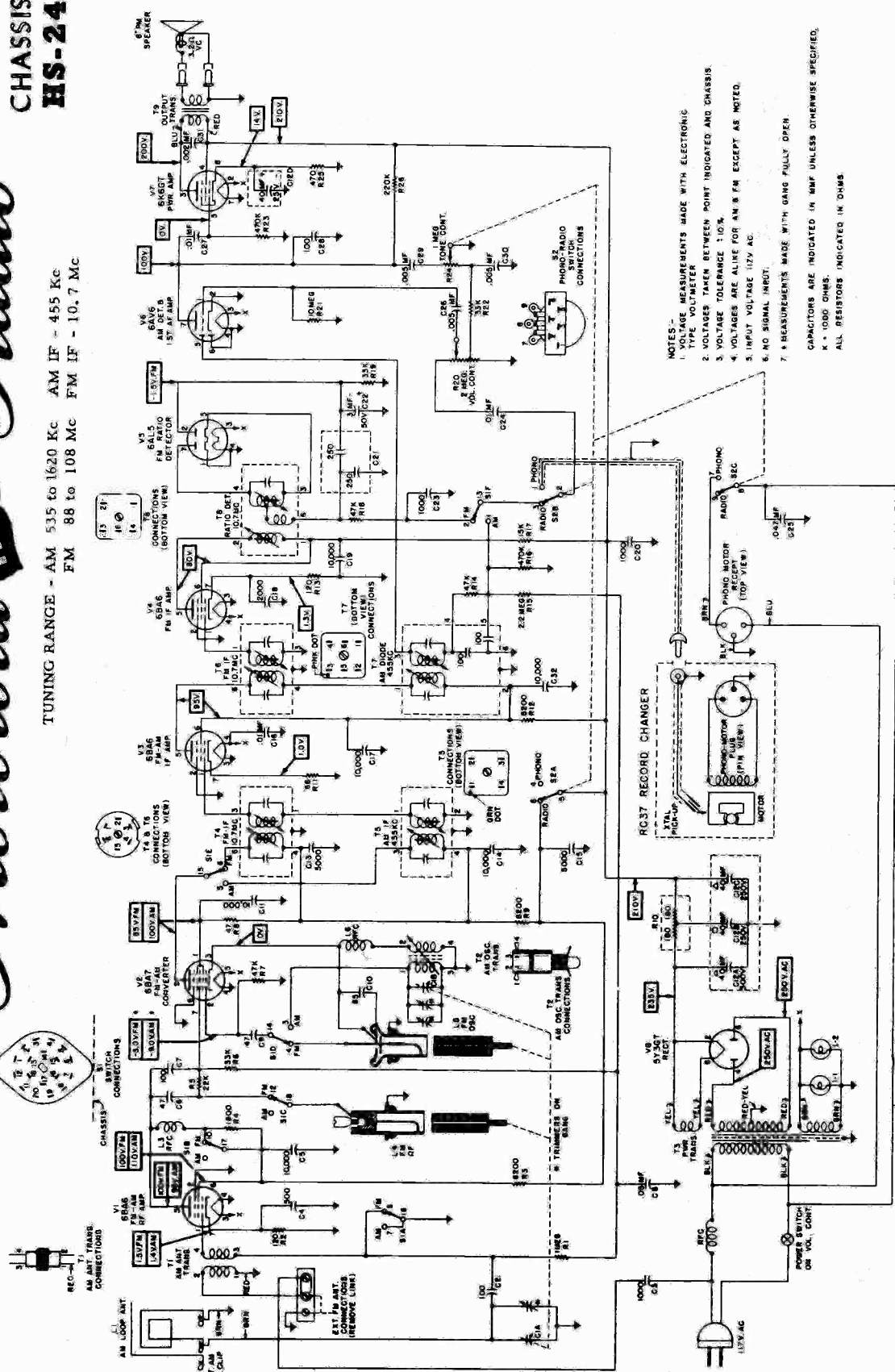
MULTIPLE CERAMIC CAPACITOR PLATE

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

MODELS
8FM21
8FM21B
CHASSIS
HS-247

Motorola HOME Radio

TUNING RANGE - AM 535 to 1620 Kc AM IF - 455 Kc
 FM 88 to 108 Mc FM IF - 10.7 Mc



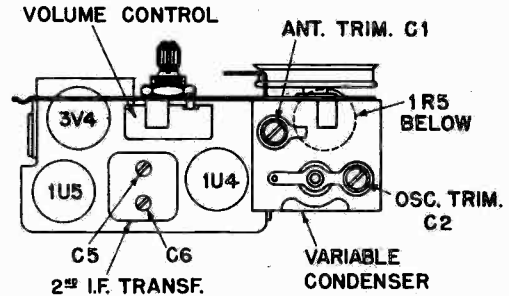
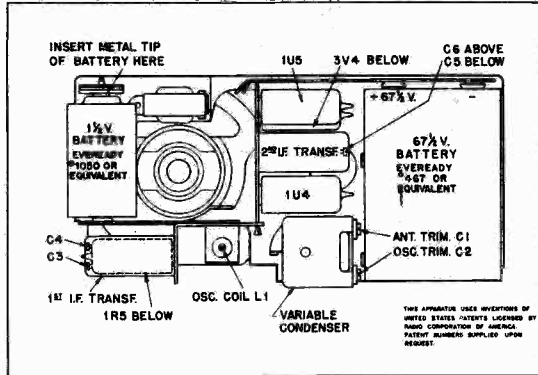
- NOTES -
1. TYPE MEASUREMENTS MADE WITH ELECTRONIC TYPE VOLT-METER
 2. VOLTAGES TAKEN BETWEEN POINT INDICATED AND CHASSIS
 3. VOLTAGE TOLERANCE ±10%
 4. VOLTAGES ARE ALINE FOR AM & FM EXCEPT AS NOTED
 5. INPUT VOLTAGE 117V AC
 6. NO SIGNAL INPUT
 7. MEASUREMENTS MADE WITH GANG FULLY OPEN
- CAPACITORS ARE INDICATED IN MMF UNLESS OTHERWISE SPECIFIED.
 X = 1000 OHMS.
 ALL RESISTORS INDICATED IN OHMS

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

OLYMPIC RADIO & TELEVISION INC.

MODEL 489

TUBE AND BATTERY LAYOUT

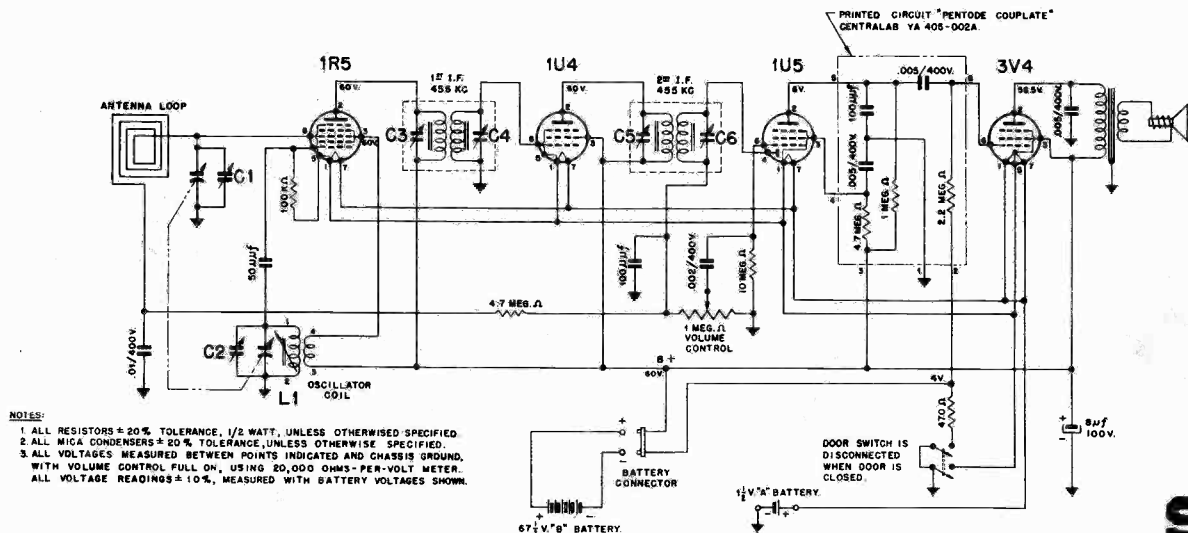


For alignment, the following equipment is required: A.M. modulated R.F. signal generator, VTVM or output meter, insulated screw driver, radiation loop (one turn of about 6" or 8" of #12 or #14 wire connected across the output of the signal generator and placed parallel to receiver loop about 8" away), one 0.1 mfd. 400 v. condenser.

Before aligning, close the variable condenser fully counterclockwise (plates fully closed) and check pointer position. Follow sequence in alignment procedure chart below.

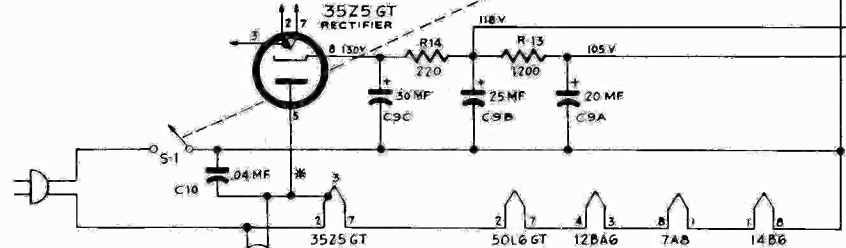
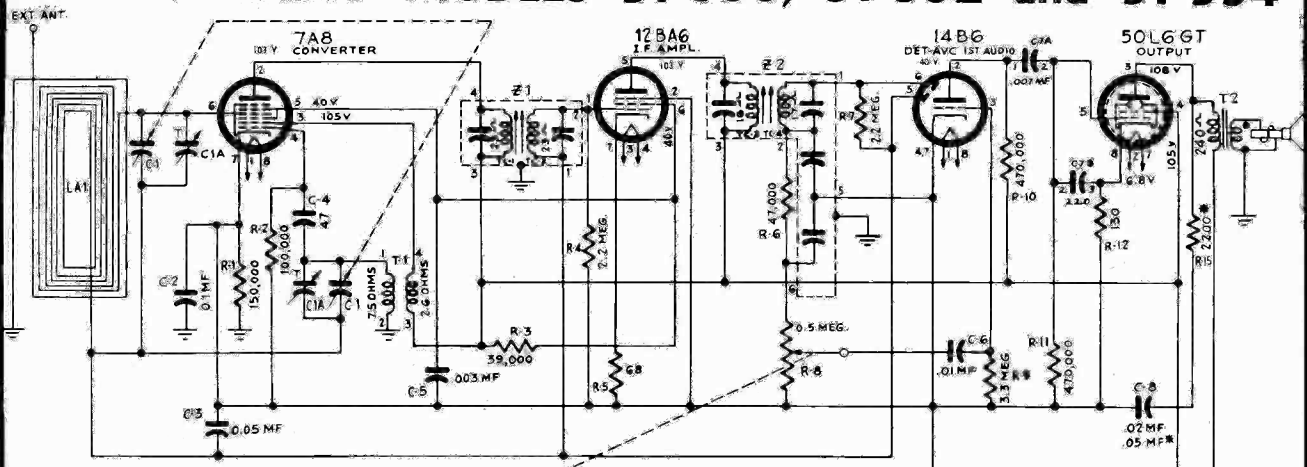
ALIGNMENT PROCEDURE CHART

| STEP | CONNECT HIGH SIDE OF SIGNAL GENERATOR TO- | SET SIGNAL GENERATOR TO- | SET POINTER TO- | ADJUST THE FOLLOWING FOR MAXIMUM OUTPUT. (KEEP SIGNAL FROM SIGNAL GENERATOR AS LOW AS POSSIBLE.) |
|------|--|--------------------------|--|--|
| 1 | R. F. SECTION OF VARIABLE CONDENSER IN SERIES WITH A .1 MFD. 400 VOLT CONDENSER. | 455 KC. | EXTREME RIGHT HAND POSITION (CONDENSER PLATES FULLY OPEN.) | C6, C5, C4, C3 AND REPEAT IN SAME ORDER (1st. AND 2nd. I.F. TRANSFORMERS.) |
| 2 | USE RADIATED SIGNAL. | 1600 KC. | 1600 KC. (160 ON DIAL) | C2 (OSCILLATOR TRIMMER) |
| 3 | (CONNECT BOTH SIDES OF SIGNAL GENERATOR TO RADIATION LOOP) | 1400 KC. | MAXIMUM SIGNAL (APPROX. 140 ON DIAL) | C1 (ANTENNA TRIMMER) |
| 4 | | 600 KC. | MAXIMUM SIGNAL (APPROX 60 ON DIAL) | ADJUST L1 ROCK VARIABLE FOR MAXIMUM SIGNAL. |
| 5 | REPEAT STEPS 2, 3 & 4 AT LEAST TWICE TO INSURE MAXIMUM SENSITIVITY & PROPER DIAL TRACKING. | | | |



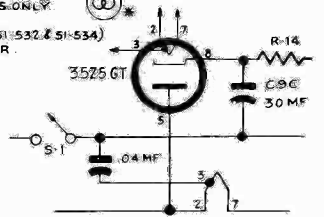
MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

PHILCO RADIO MODELS 51-530, 51-532 and 51-534

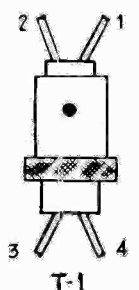
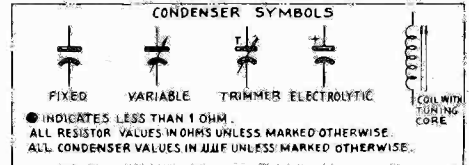


IF = 455 KC

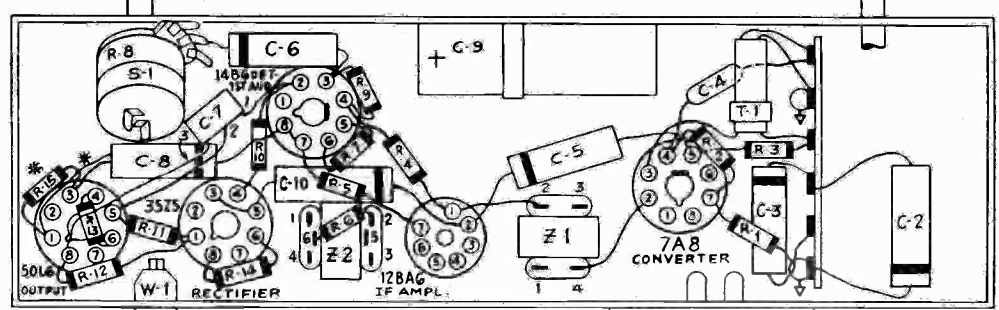
* THE FOLLOWING APPLIES ONLY TO MODEL 51-530. R-15 (NOT USED IN MODELS 51-532 & 51-534) C-8 IS A .05 uF CONDENSER. RECTIFIER IS WIRED AS SHOWN IN INSERT.



ALL VOLTAGES MEASURED WITH 20,000 OHMS PER-VOLT METER BETWEEN POINTS INDICATED AND B MINUS AT A LINE VOLTAGE OF 117V AC.

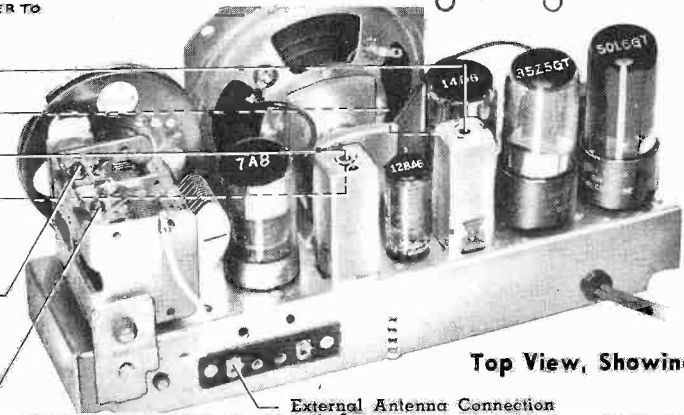


Symbolized Chassis, Showing Parts Placement



* THIS PART AND WIRING CHANGE REFER TO MODEL 51-530 ONLY.

- TC4—2nd i.f. sec.
- TC3—2nd i.f. pri.
- TC2—1st i.f. sec.
- TC1—1st i.f. pri.
- C1B—osc.
- C1A—aerial



NOTE: TC1 and TC3 are located on underside of chassis.

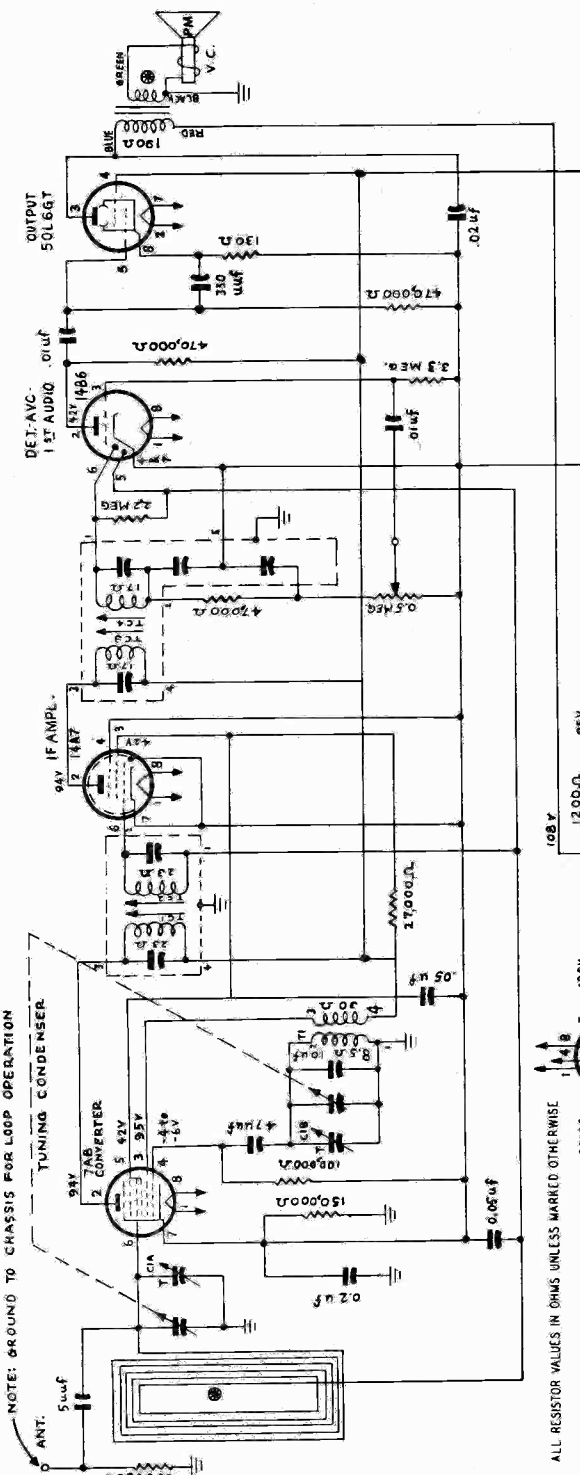
Top View, Showing Trimmer Locations

External Antenna Connection

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

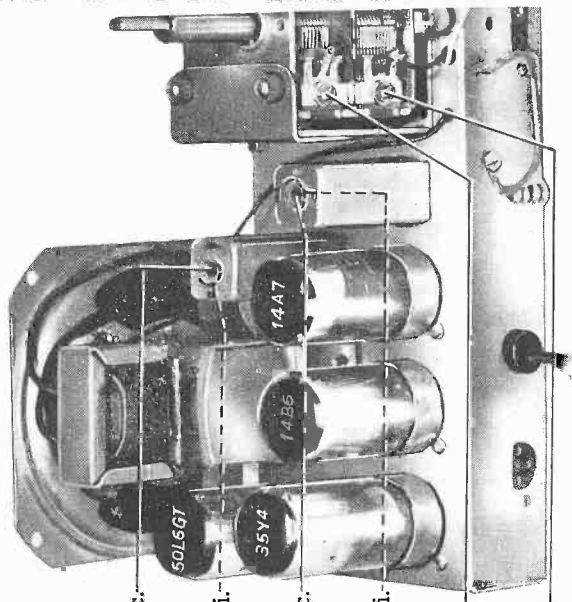
PHILCO RADIO-CLOCK, MODELS 51-537 and 51-537-I

Model 51-538 is identical in circuit to 51-537 here described. In some Model 51-538 sets (Code 122) a 12BA6 is used instead of 14A7. The Philco material in this manual is reprinted through the courtesy of Philco Corp.



Top View, Showing Trimmer Location

TC1 and TC3 are located on underside of chassis.

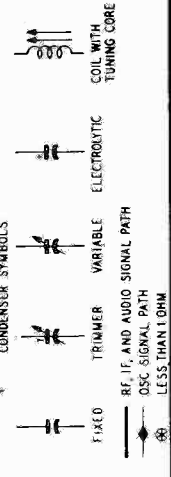
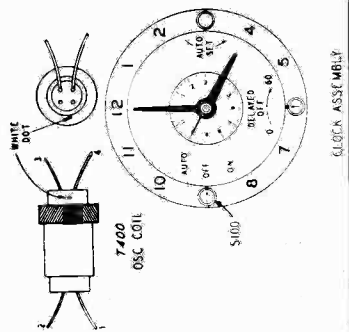


TC4—2nd i-f sec.
TC3—2nd i-f pri.
TC2—1st i-f sec.
TC1—1st i-f pri.
C1B—Osc.
C1A—Aerial

ALL RESISTOR VALUES IN OHMS UNLESS MARKED OTHERWISE.

IF-455KC

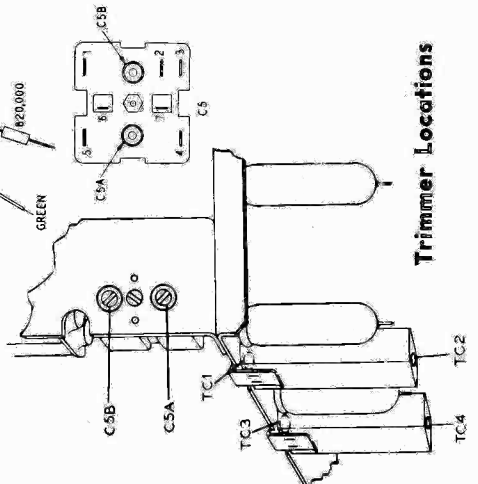
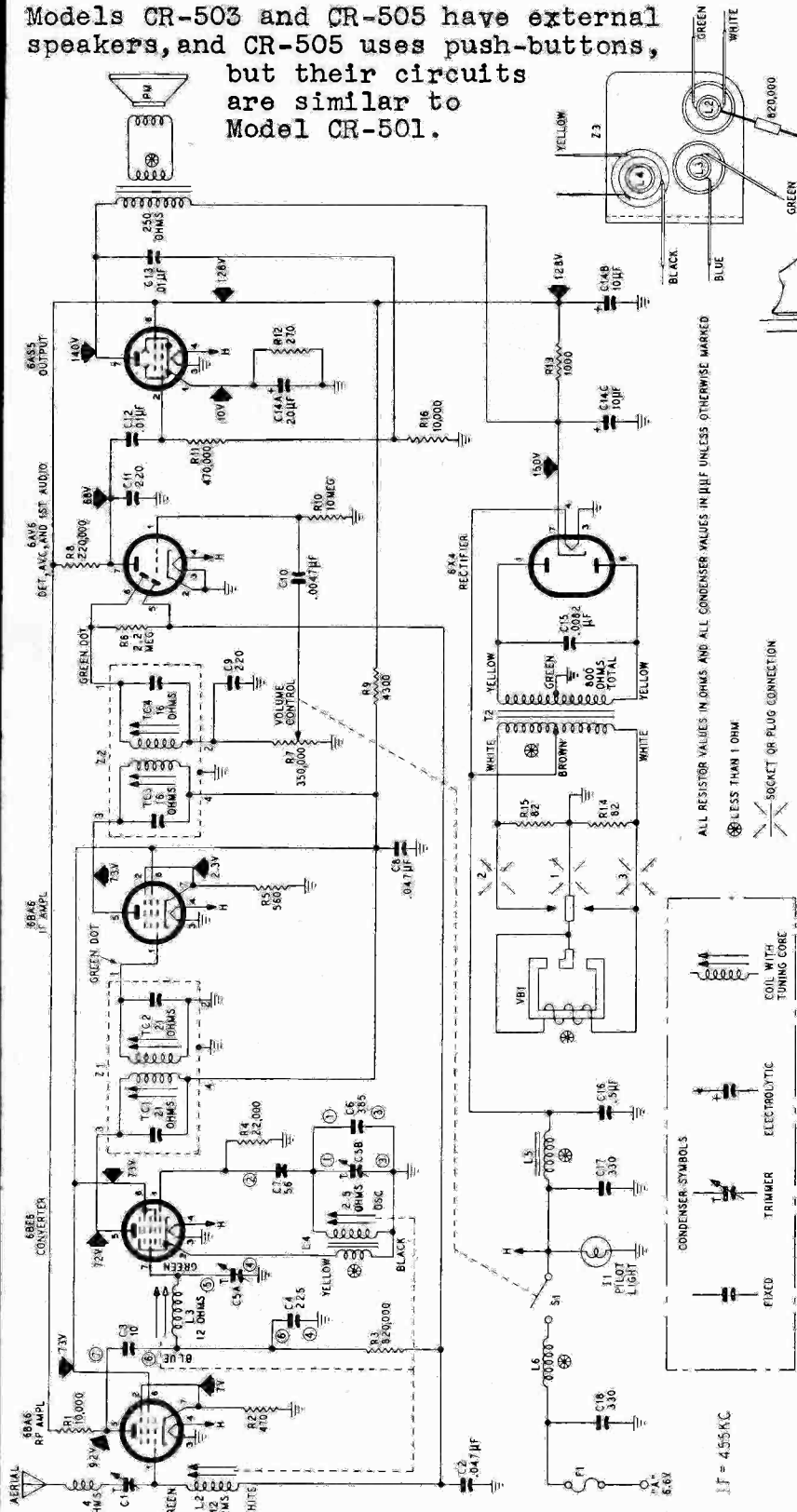
NOTE: VOLTAGES SHOWN WERE MEASURED WITH 20,000 OHMS PER VOLT METER FROM POINTS INDICATED TO B MINUS AT A LINE VOLTAGE OF 117V AC



MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

PHILCO AUTO RADIO MODEL CR-501

Models CR-503 and CR-505 have external speakers, and CR-505 uses push-buttons, but their circuits are similar to Model CR-501.



Trimmer Locations

ALL RESISTOR VALUES IN OHMS AND ALL CONDENSER VALUES IN μ F UNLESS OTHERWISE MARKED

⊗ LESS THAN 1 OHM

⊗ SOCKET OR PLUG CONNECTION

COIL WITH TUNING CORE

CONDENSER SYMBOLS

FIXED

TRIMMER

ELECTROLYTIC

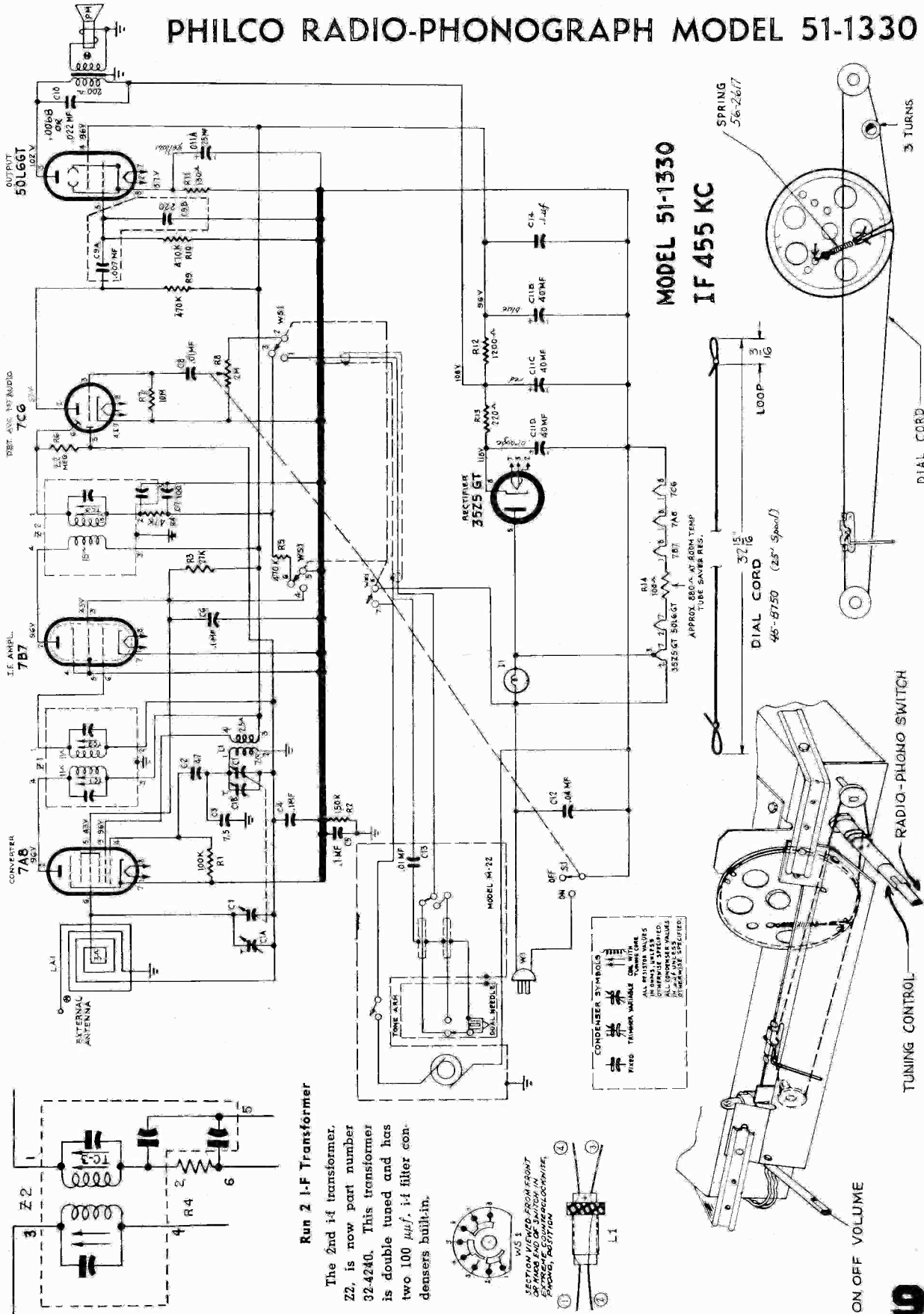
$f = 455$ KC

| SIGNAL GENERATOR | | RADIO | |
|------------------|---|--------------------------|---|
| STEP | CONNECTION TO RADIO | DIAL SETTING | SPECIAL INSTRUCTIONS |
| 1 | Through .05 μ f. condenser to converter grid (pin 7 of 6BE6). | Maximum counterclockwise | Adjust cores, in order given, for maximum output. TC1 and TC3 are reached through holes in bottom of TC2—1st i.f. sec. TC1—1st i.f. pri. |
| 2 | Through dummy aerial. | 1605 kc. | Adjust for maximum output. |
| 3 | | 1600 kc. | Readjust trimmer C1, with radio installed in car and aerial fully extended. |



MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

PHILCO RADIO-PHONOGRAPH MODEL 51-1330

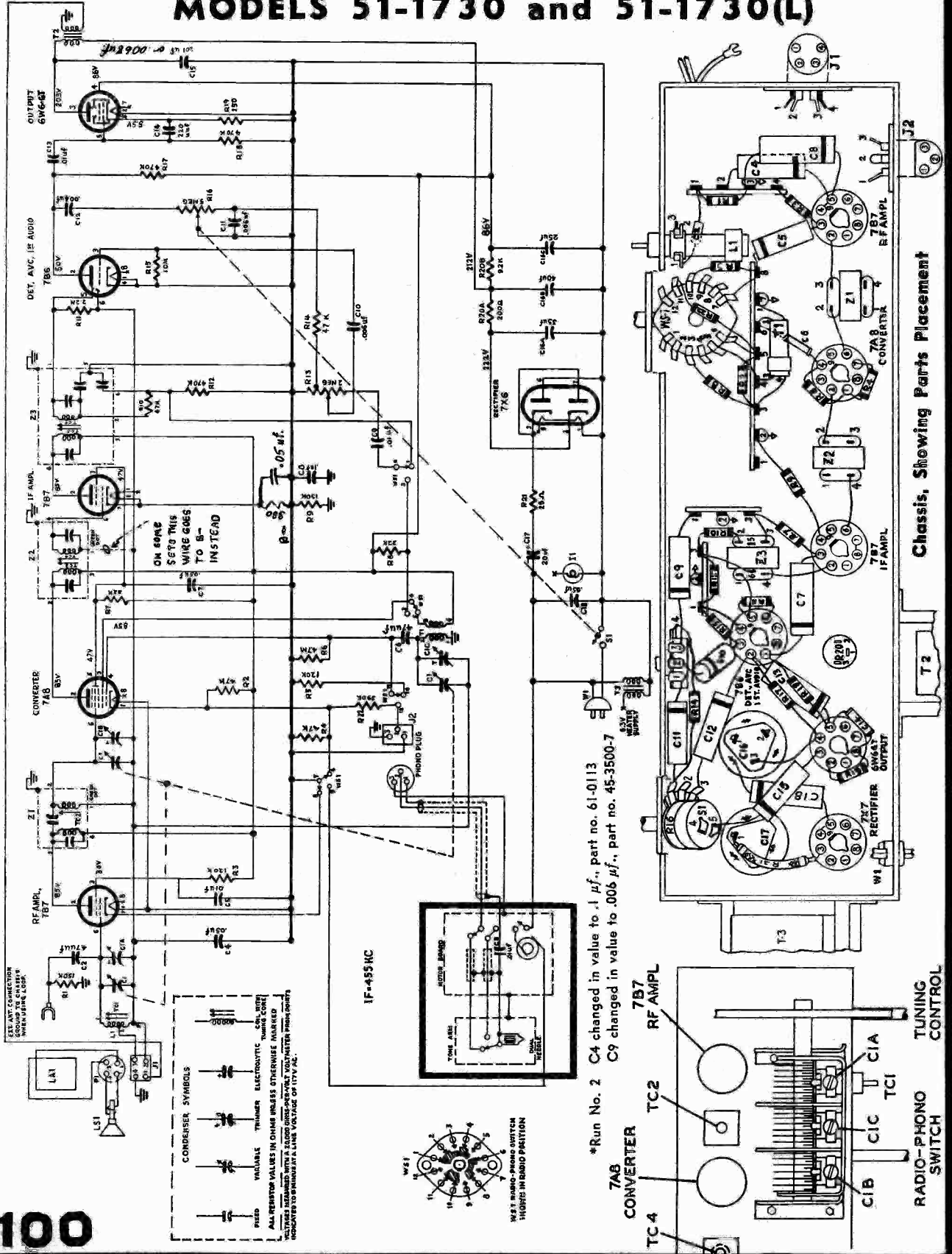


MODEL 51-1330
IF 455 KC

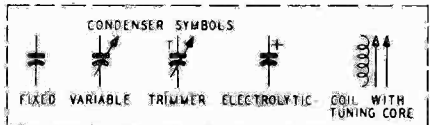
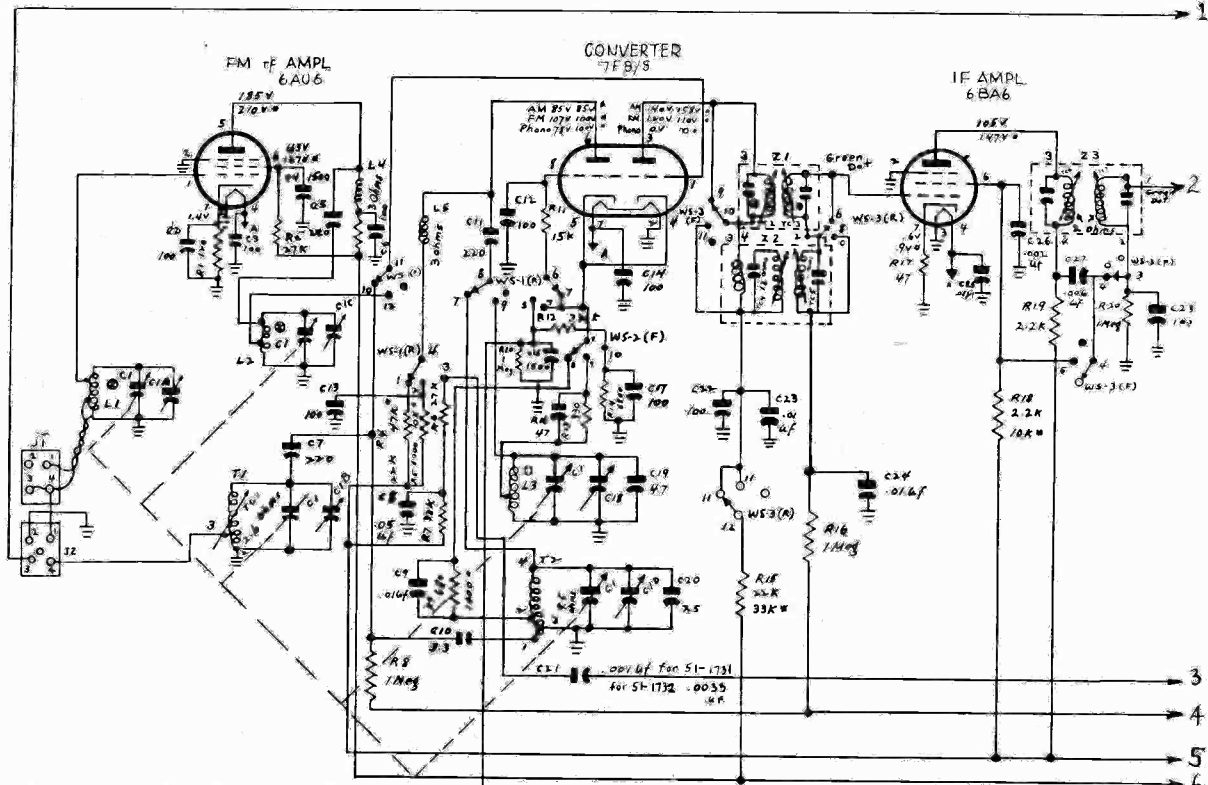
MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

PHILCO RADIO-PHONOGRAPH

MODELS 51-1730 and 51-1730(L)



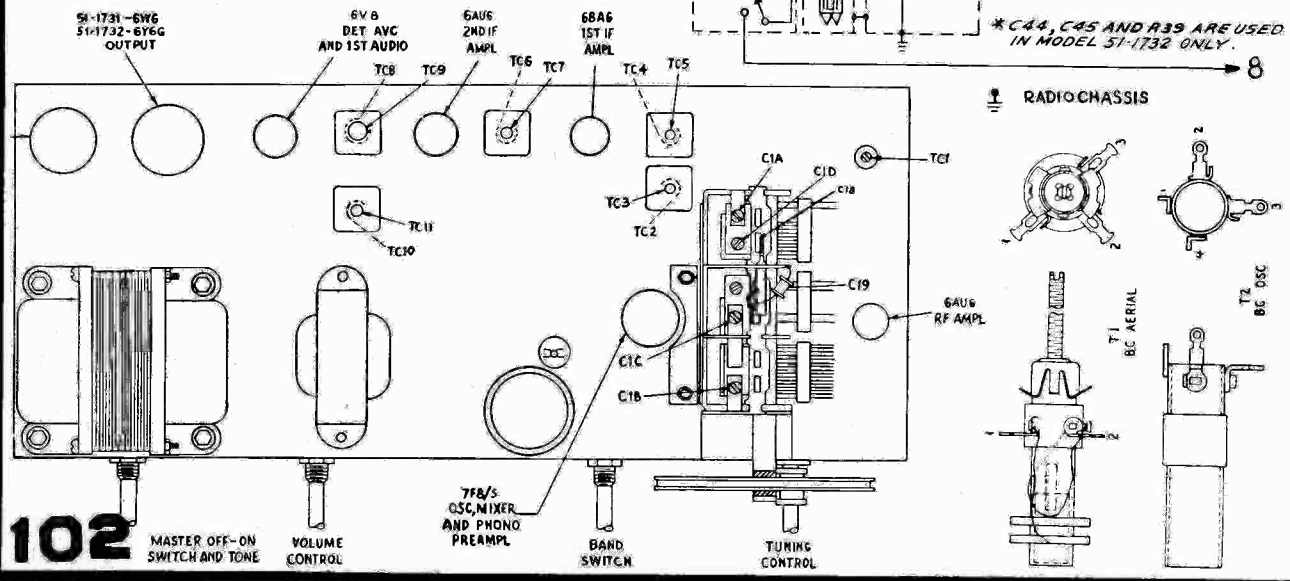
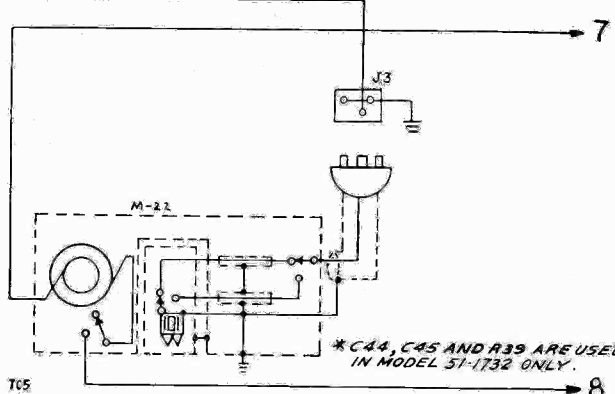
MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS PHILCO RADIO-PHONOGRAPH MODELS 51-1731 and 51-1732



ALL RESISTOR VALUES IN OHMS AND ALL CONDENSER VALUES IN μ F UNLESS MARKED OTHERWISE
 VOLTAGES WERE MEASURED FROM POINTS INDICATED TO GROUND WITH A 20,000-OHMS-PER-VOLT METER AT A LINE VOLTAGE OF 117VAC

⊙ INDICATES LESS THAN 1 OHM
 * THE PARTS VALUES AND VOLTAGES MARKED WITH AN ASTERISK APPLY TO MODEL 51-1732

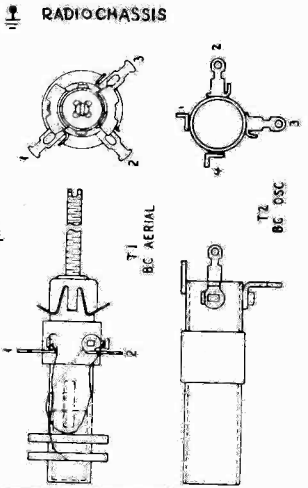
Top View, Showing Trimmer Locations



102

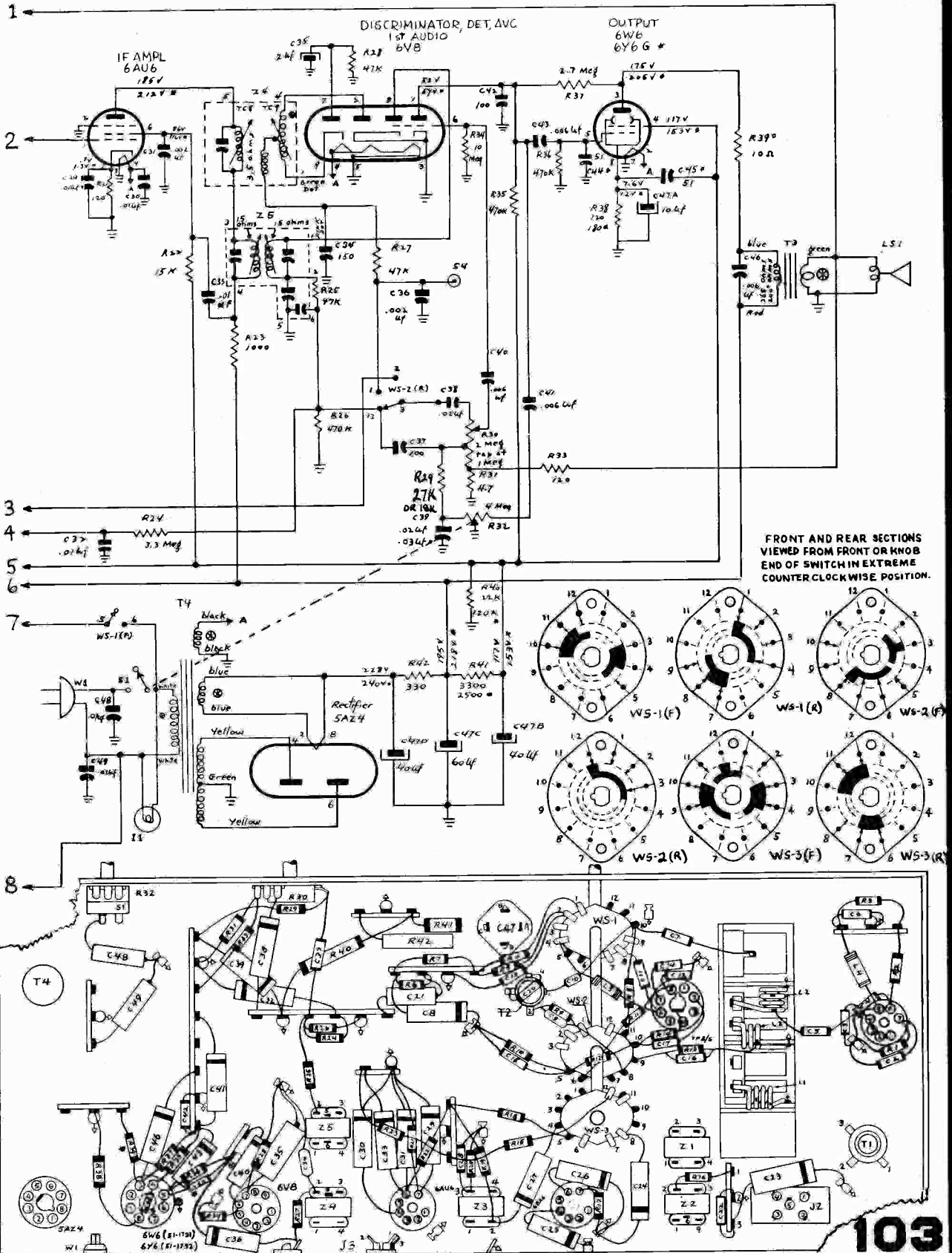
MASTER OFF-ON SWITCH AND TONE
 VOLUME CONTROL

7F8/5 OSC, MIXER AND PHONO PREAMPL
 BAND SWITCH
 TUNING CONTROL



MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Philco Radio-Phonograph Models 51-1731 and 51-1732, continued,
(Alignment Information on the next page).



MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Philco Models 51-1731 and 51-1732 Alignment Information (continued)

AM ALIGNMENT PROCEDURE

Make alignment with loop aerial connected to radio. The AM alignment should be made before the FM alignment.

DIAL POINTER: Calibration and pointer-index measurements are shown in figure 3. With tuning gang fully meshed, set pointer to index mark.

OUTPUT METER: Connect across speaker voice-coil terminals.

SIGNAL GENERATOR: Connect AM r-f signal generator as indicated in chart. Generator ground lead to chassis. Use modulated output.

RADIO CONTROLS: Set volume control to maximum, tone control counterclockwise, and band switch to broadcast position.

OUTPUT LEVEL: During alignment, adjust signal-generator output to hold output meter indication below 1.25 volts.

| STEP | SIGNAL GENERATOR | | RADIO | | ADJUST TRIMMER |
|------|---|--------------|--------------------|---|--|
| | CONNECTION TO RADIO | DIAL SETTING | DIAL SETTING | SPECIAL INSTRUCTIONS | |
| 1 | Through a .01- μ f. condenser to mixer grid, pin 1, of 7F8/S. | 455 kc. | Gang fully meshed. | Adjust, in order given, for maximum output. | TC11—2nd AM i-f sec. TC10—2nd AM i-f pri. TC5—1st AM i-f sec. TC4—1st AM i-f pri. |
| 2 | Radiating loop. (See Note below.) | 1600 kc. | 1600 kc. | Adjust for maximum output. | C1D—AM osc. shunt |
| 3 | Same as step 2. | 1500 kc. | 1500 kc. | Adjust for maximum output. | C1B—AM ant. shunt |
| 4 | Same as step 2. | 580 kc. | 580 kc. | Adjust for maximum output. This should not be necessary unless T1 (aerial transformer) has been replaced. | TC1—AM ant. tuning core |

RADIATING LOOP: Make up a 6-to-8 turn, 6-inch-diameter loop, using insulated wire; connect to signal generator leads and place near radio loop aerial.

FM ALIGNMENT PROCEDURE

Make the AM alignment first.

RADIO CONTROLS: Set volume control to maximum, tone control counterclockwise, and band switch to FM position. Allow radio and signal generator to warm up for at least 15 minutes before making alignment.

SIGNAL GENERATOR: Use a signal generator capable of delivering a 9.1-mc. FM signal with a deviation of ± 80 kc. and modulated AM signals of 92 mc., 105 mc., and 108 mc. Philco Model 7008 Precision Visual Alignment Generator fulfills these requirements. **NOTE:** The signal generator must be well bonded to radio chassis.

OSCILLOSCOPE: Connect to FM Test jack. Model 7008 is suggested.

OUTPUT METER: Connect across speaker voice-coil terminals.

R-F COIL NOTE: Check resonance of circuits containing coils L1, L2, and L3 by inserting each end of a tuning wand, such as Philco Part No. 45-8885, into coil. If signal strength increases when powdered-iron end is inserted, compress turns slightly. If signal strength increases when brass end is inserted, spread turns slightly. If signal strength decreases when each end is inserted, no adjustment is necessary. Do no spread or compress turns excessively; only a small change is required at these high frequencies.

| STEP | SIGNAL GENERATOR | | RADIO | | ADJUST TRIMMER |
|------|---|---------------------------------|--------------------|---|--|
| | CONNECTION TO RADIO | DIAL SETTING | DIAL SETTING | SPECIAL INSTRUCTIONS | |
| 1 | Through a .01- μ f. condenser to pin 1 of 6A5S IF amplifier.* | 9.1 mc. ± 80 kc. deviation. | Gang fully meshed. | Adjust TC9 for correct crossover. Adjust TC8 for maximum and equal peaks. Repeat. | TC9—FM det. sec. TC8—FM det. pri. |
| 2 | .01- μ f. condenser to pin 1 of 6BA6.* | 9.1 mc. ± 80 kc. deviation. | Gang fully meshed. | Adjust, in order given, for maximum and equal peaks. Repeat. | TC7—FM 2nd i-f sec. TC6—FM 2nd i-f pri. |
| 3 | .01- μ f. condenser to pin 1 of 7F8/S.* | 9.1 mc. ± 80 kc. deviation. | Gang fully meshed. | Adjust, in order given, for maximum and equal peaks. Repeat. | TC3—FM 1st i-f sec. TC2—FM 1st i-f pri. |
| 4 | Through a 300 ohm dummy aerial to FM aerial socket, J1. | 108 mc. | 108 mc. | Adjust trimmer for maximum reading on output meter. | C18—FM osc. |
| 5 | Same as step 4. | 105 mc. | 105 mc. | Adjust for maximum output while rocking gang. | C1C—FM r-f C1A—FM aerial |
| 6 | Same as step 4. | 92 mc. | 92 mc. | Adjust coils, in order given, for proper resonance | L3—FM osc. coil L2—FM r-f coil L1—FM aerial coil |

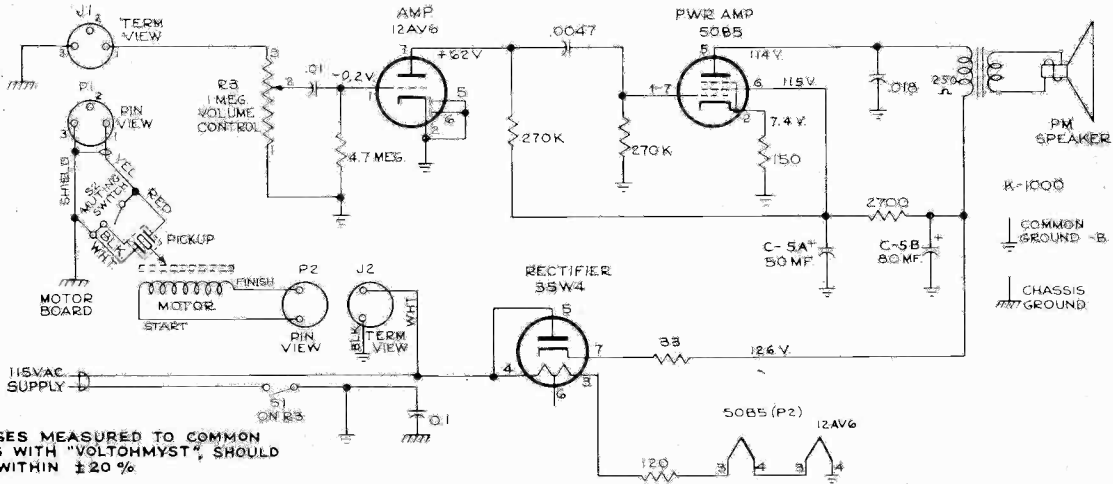
*CAUTION: Do not overload! When aligning the i-f stages, the curve will be distorted or destroyed if too great a signal is used. To check, attenuate the signal input. If the curve changes in form, rather than merely decreasing in amplitude, the stage is overloaded.

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

RCA VICTOR

MODELS 45-EY-1, 45-EY-15

Chassis Nos. RS-132F, RS-132H

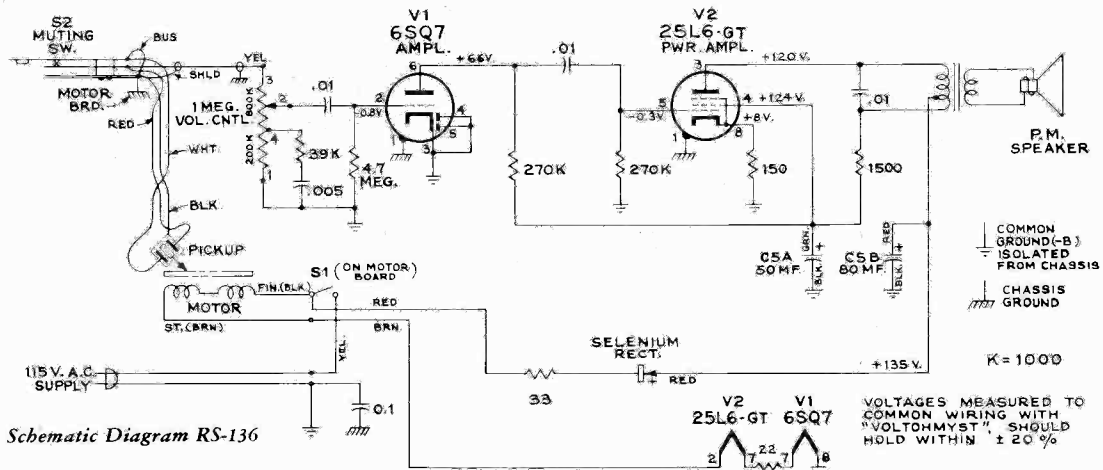


VOLTAGES MEASURED TO COMMON WIRING WITH "VOLTOHMYST" SHOULD HOLD WITHIN $\pm 20\%$

RCA VICTOR

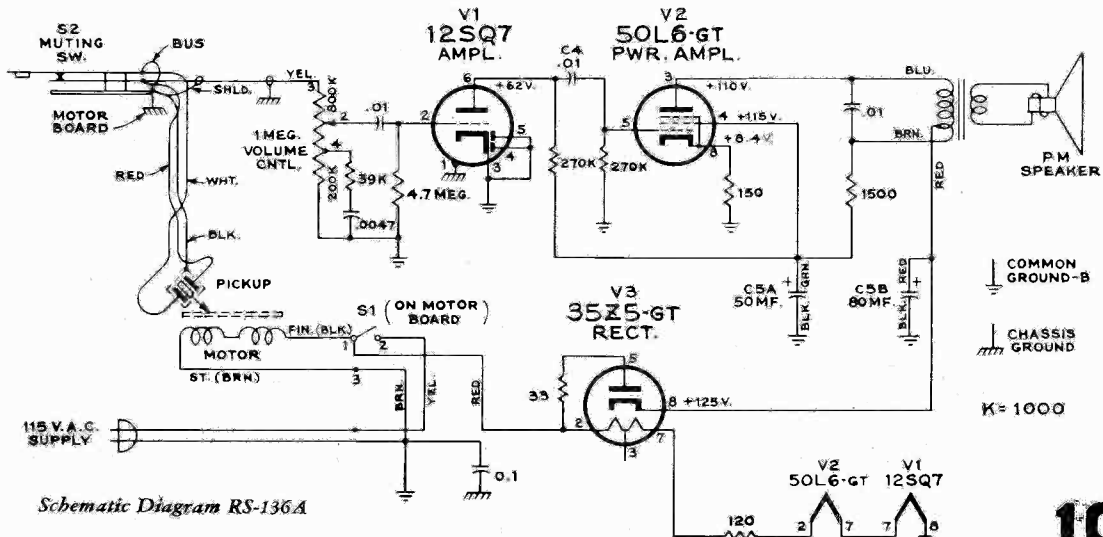
MODEL 45-EY-3

Chassis No. RS-136, RS-136A



Schematic Diagram RS-136

VOLTAGES MEASURED TO COMMON WIRING WITH "VOLTOHMYST" SHOULD HOLD WITHIN $\pm 20\%$



Schematic Diagram RS-136A

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

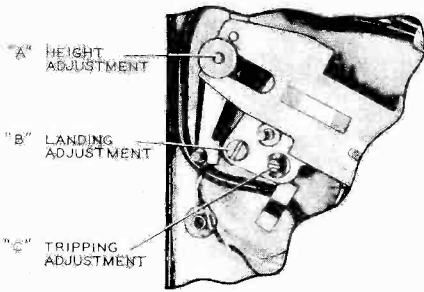


RCA VICTOR

Automatic Record Player

MODEL 45-EY-2

Chassis No. RS-138, RS-138A



Pickup Height Adjustment

Adjust knurled nut (A) until the distance (during change cycle) between the top of the turntable and the stylus point is approximately $1\frac{1}{4}$ "

Pickup Landing Adjustment

Adjust the screw driver landing adjustment stud "B" so the stylus lands $2\frac{3}{4}$ " \pm $\frac{1}{4}$ " from the side of the center post.

Tripping Adjustment

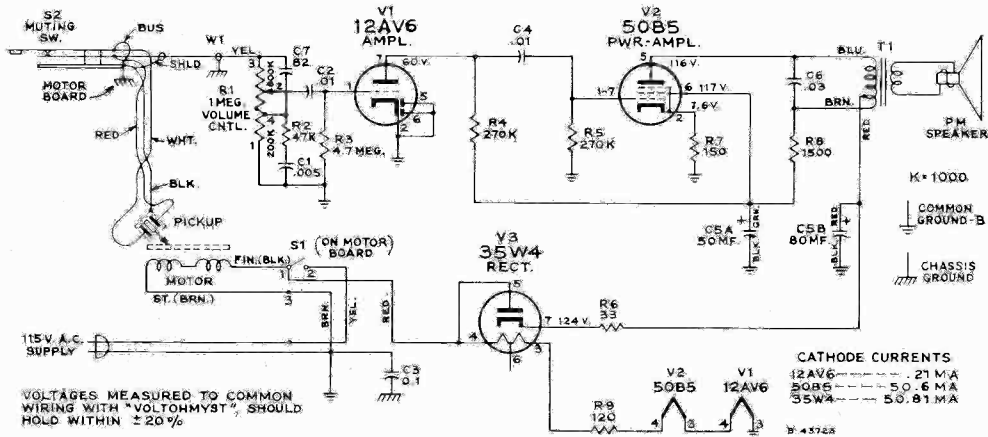
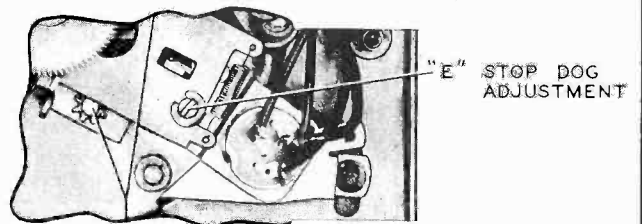
Adjust the eccentric tripping stud (C) until the mechanism trips when the stylus is $1\frac{1}{2}$ " from the side of the center post.

Stop Dog Adjustment

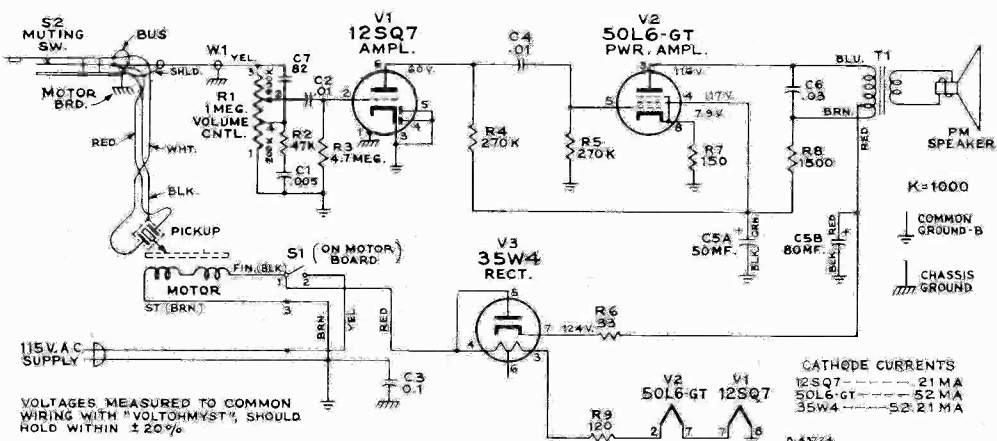
Turn the eccentric screw (E) until the record drops to the turntable without striking the pickup arm.

Critical Lead Dress

1. Dress all leads away from R6 and R9
2. Dress electrolytic capacitor away from R6 and R9
3. Dress filament leads down to chassis
4. Solder braid of W-1 such that it acts as a strain relief



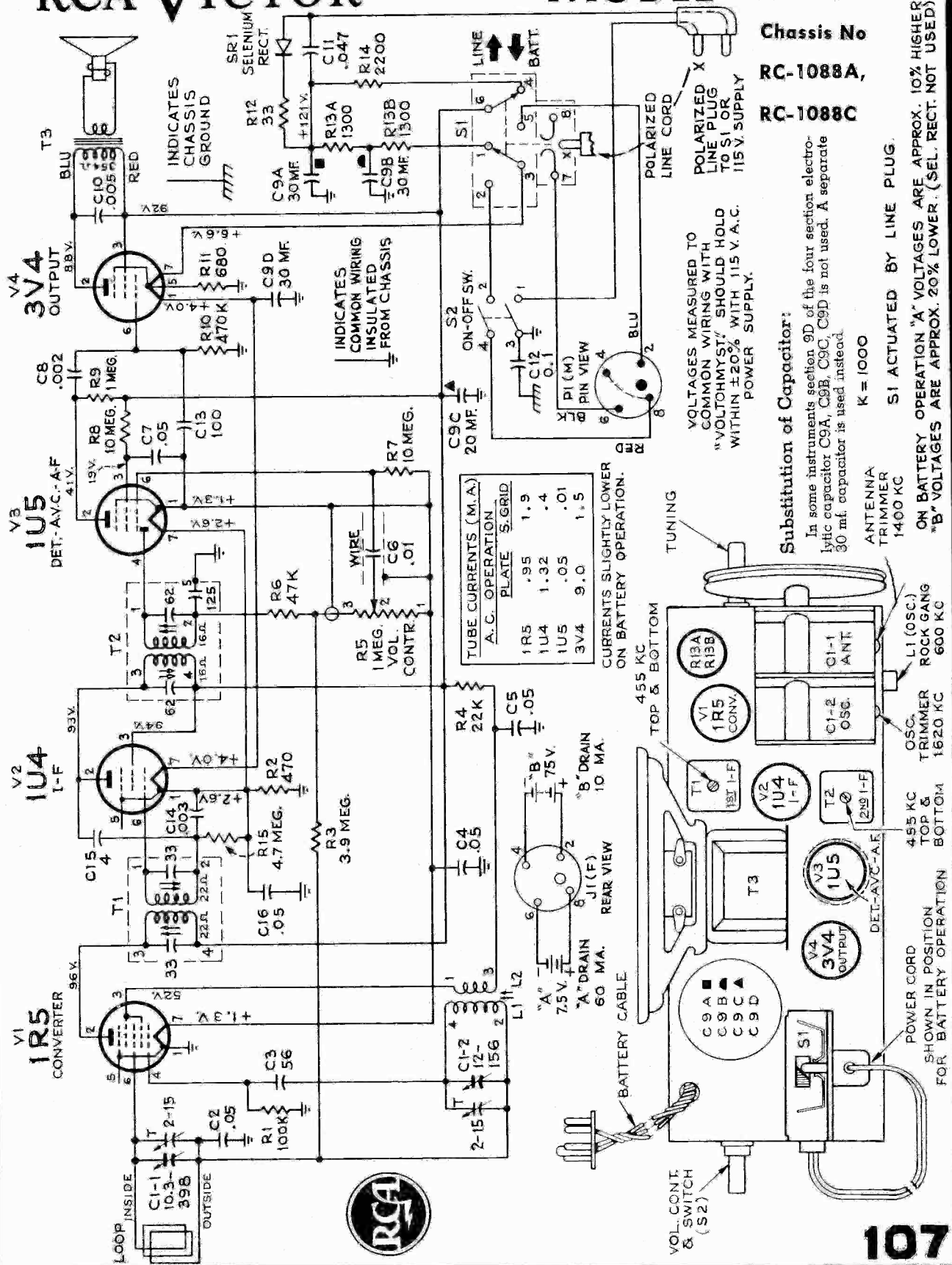
Schematic Diagram RS138



Schematic Diagram RS138A

RCA VICTOR

MODEL BX57



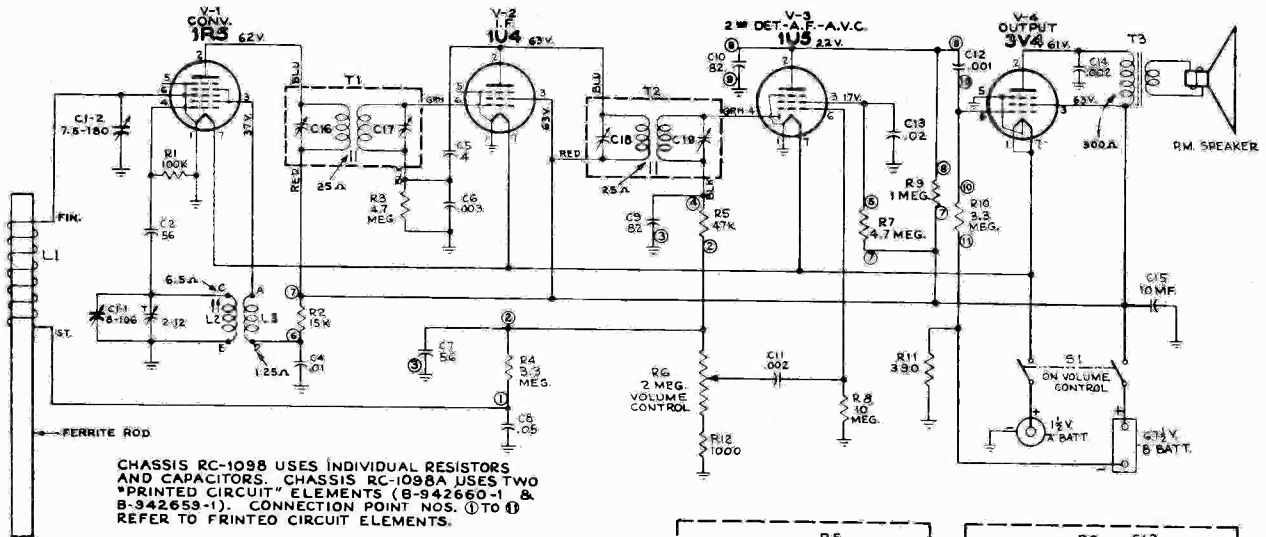
MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS



RCA VICTOR

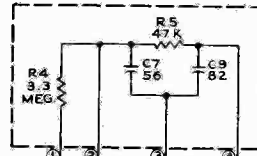
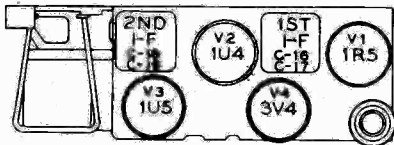
MODEL B-411

Chassis No. RC-1098 or RC-1098A

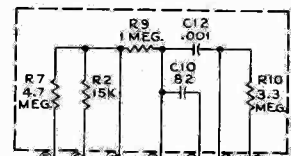


CHASSIS RC-1098 USES INDIVIDUAL RESISTORS AND CAPACITORS. CHASSIS RC-1098A USES TWO "PRINTED CIRCUIT" ELEMENTS (B-942660-1 & B-942659-1). CONNECTION POINT NOS. ① TO ⑩ REFER TO PRINTED CIRCUIT ELEMENTS.

ALL RESISTANCE VALUES IN OHMS. K = 1000. ALL CAPACITANCE VALUES LESS THAN 1.0 IN MF. AND ABOVE 1.0 IN MMF. UNLESS OTHERWISE INDICATED.



DIODE FILTER UNIT
B 942660-1

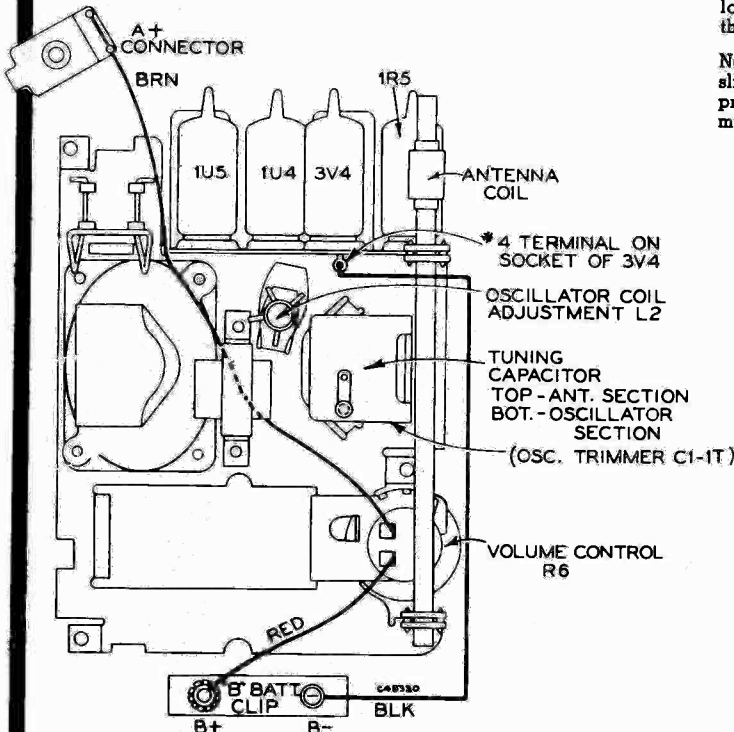


AUDIO COUPLING UNIT
B 942659-1

Output Meter.—Connect meter from No. 2 terminal of V4 (plate of 3V4) to ground. Turn volume control to maximum position.

Test-Oscillator.—For all alignment operations, connect the low side of the test-oscillator to the receiver chassis, and keep the oscillator output as low as possible to avoid a-v-c action.

Note.—The inductance of the antenna coil is adjusted by sliding the coil along the Ferrite rod. This ant. coil is supplied pre-adjusted and cemented to rod. This makes further adjustment unnecessary.



| Steps | Connect the high side of test osc. to— | Tune test-osc. to— | Turn radio dial to— | Adjust the following for max. peak output— |
|----------------------|---|--------------------|--------------------------|--|
| 1 | | | Quiet point near 1600 kc | C18, C19 2nd I-F trans. |
| 2 | Connection lug of C1-2 located on rear of gang in series with .01 mf. | 455 kc | | C16, C17 1st I-F trans. |
| Repeat steps 1 and 2 | | | | |
| 4 | | 1400 kc | 14 Rock gang | C1-1T (osc.) |
| 5 | *Antenna coupling loop (Chassis in case) | 600 kc | 60 Rock gang | L2 (osc.) |
| 6 | | | | Repeat steps 4 and 5 |

*Steps 4 and 5 require a coupling loop from the signal generator to feed a signal into the receiver ant. coil. This loop should be loosely coupled to the receiver antenna coil so as not to disturb the receiver ant. coil inductance.

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

MODEL A-108

Chassis No. RC 1096

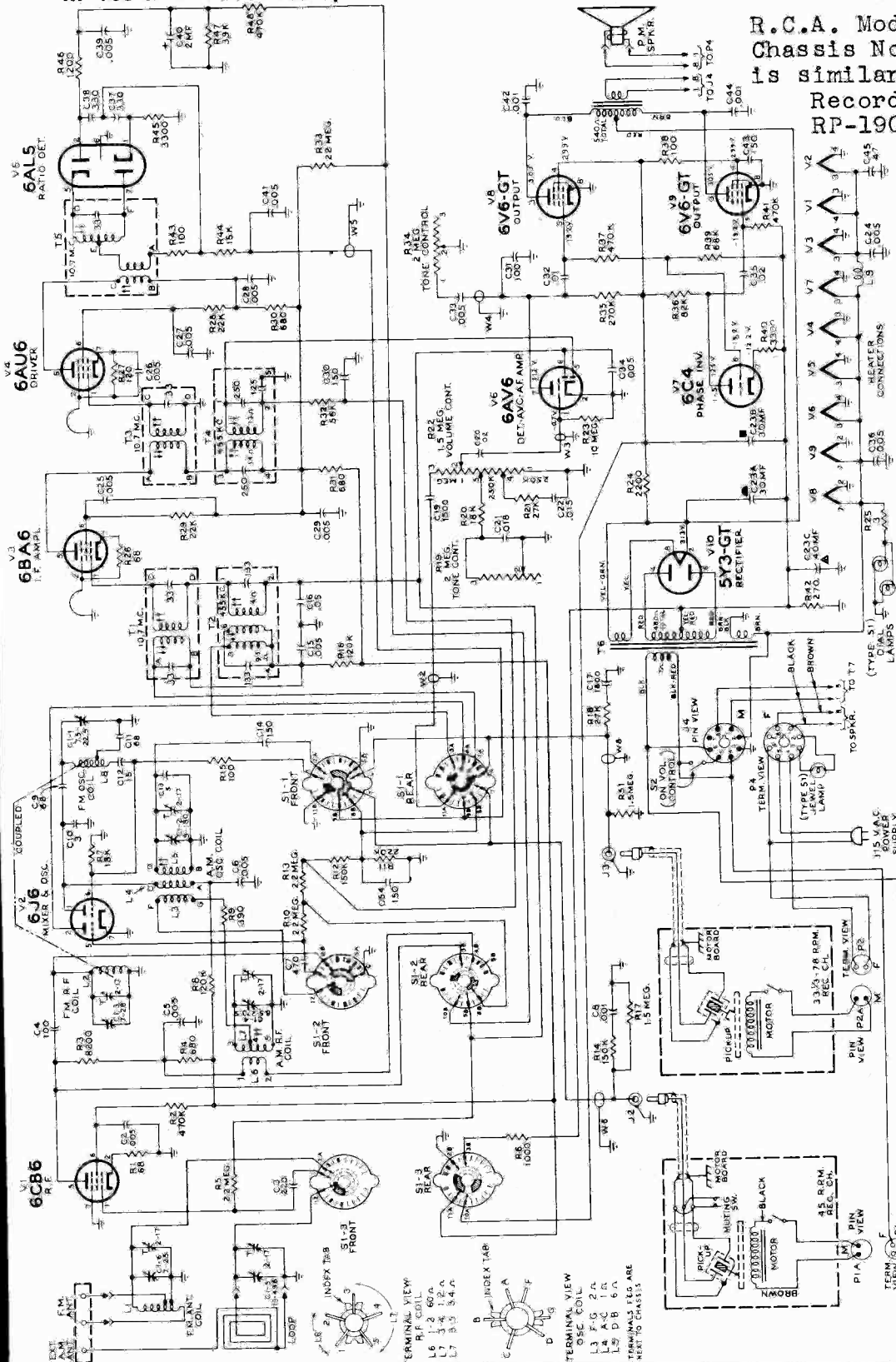
Record Changers 960284 (78/33 1/3 r.p.m.)
RP 168 or RP 190-2 (45 r.p.m.)



MODEL A-101

Chassis No. RC 1096

Record Changers 960282-4 or 5 (78/33 1/3 r. p. m.)
and RP 190-2 (45 r.p.m.)



R.C.A. Model 45-W-10,
Chassis No. RC-1096A,
is similar, but uses
Record Changer
RP-190-2 (45 rpm)
only.

RCA

Function switch viewed from front and shown in "Phone 78/33" position (max. c/clockwise).
CAPACITOR VALUES LESS THAN 1 ARE IN MF., VALUES GREATER THAN 1 ARE IN MMF. UNLESS OTHERWISE SPECIFIED.
RESISTANCE VALUES IN OHMS. K = 1000.

VOLTAGES MEASURED TO CHASSIS WITH VOLTOHMIST WITH NO SIGNAL INPUT AND SHOULD HOLD WITHIN ±20% WITH 117-VOLT
Standard Broadcast (AM) 540-1,600 kc.
Frequency Modulation (FM) 88-108 mc.
Intermediate Frequencies AM—455 kc., FM—10.7 mc.

The cathode neutralizing loops of V3 (6BA6) and V4 (6AU6)
are insulated wires approx. 2 in. long. Do not alter length.

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

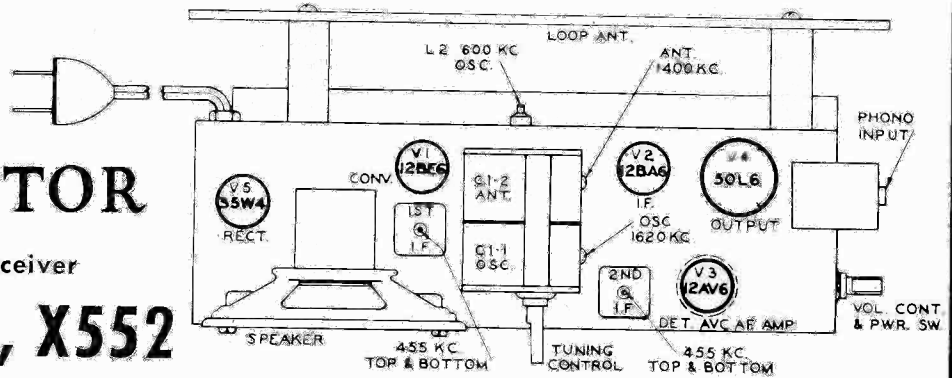


RCA VICTOR

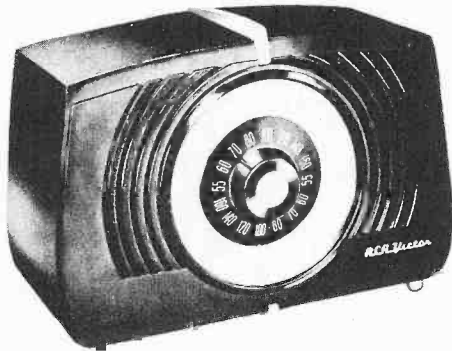
AC-DC Radio Receiver

MODELS X551, X552

Chassis No. RC-1089B RC-1089C



Tube and Trimmer Locations



X551
Maroon

X552
Ivory

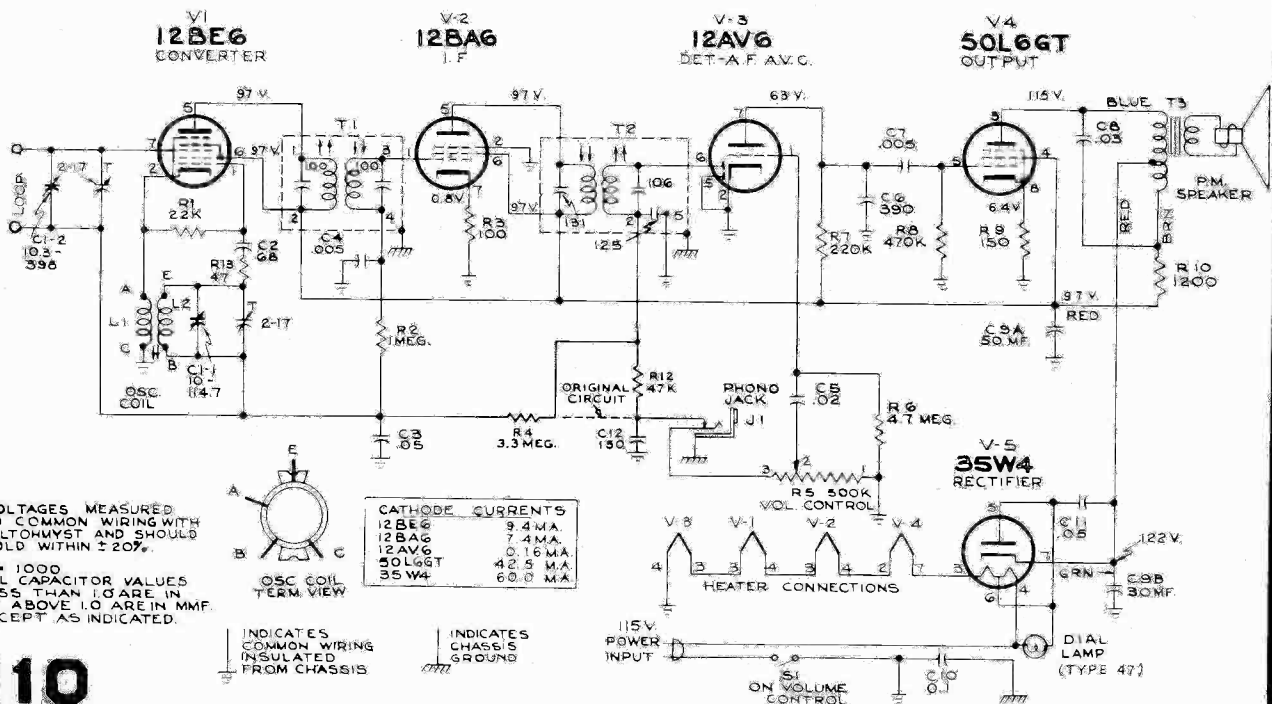
Alignment Procedure

Test-Oscillator—For all alignment operations, connect the low side of the test-oscillator to the receiver chassis, and keep the oscillator output as low as possible to avoid a-v-c action. On a.c. operation an isolation transformer (115 v./115 v.) may be necessary for the receiver if the test oscillator is also a.c. operated.

| Steps | Connect the high side of test-oscillator to— | Tune test-osc. to— | Turn radio dial to— | Adjust the following for max. output |
|-------|---|--------------------------|---------------------------------|--------------------------------------|
| 1 | 12BA6 I-F grid through .01 mfd. capacitor | 455 kc | Quiet-point 1600 kc end of dial | T2 (top and bottom) 2nd I-F trans. |
| 2 | Stator of CI-2 through .01 mfd. | | | T1 (top and bottom) 1st I-F trans. |
| 3 | | 1620 kc | Min. cap. | osc. trimmer |
| 4 | Short wire placed near loop to radiate signal | 1400 kc | 1400 kc signal | ant. trimmer |
| 5 | | 600 kc | 600 kc signal | L2 (osc.) Rock gang |
| 6 | | Repeat steps 3, 4 and 5. | | |

Change in Schematic Diagram:

Resistor R4 (3.3 meg. a.v.c. filter), previously connected to the junction of R12 (47K) and the phono jack (J1), is now connected to the junction of R12 and terminal #2 of the 2nd I-F transformer. The revised connection is illustrated below.



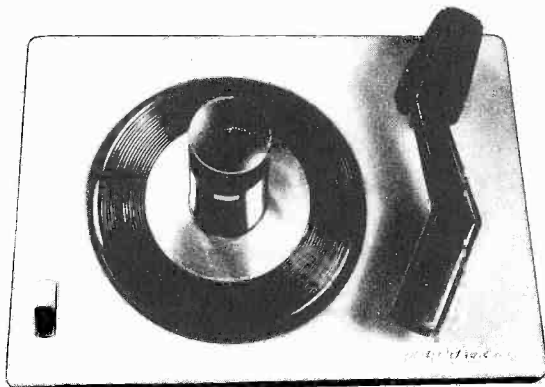
MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS



RCA VICTOR

RP-190 Series

45 R.P.M. Automatic Record Changer



MODEL IDENTIFICATION

- RP190-1 Uses pickup Stock No. 75476.
- RP190-2 Same as RP190-1, except use pickup Stock No. 75575.
- RP190-3 Same as RP190-1, except use 85 volt motor Stock No. 75937.
- RP190-4 Same as RP190-1, except "ON-OFF" switch; however, they are physically interchangeable.

LUBRICATION

A light machine oil (SAE No. 10) should be used to oil the bearings of the drive motor.

On all bearing surfaces, excepting the motor bearings, Houghton STA-PUT No. 320, or equivalent, should be used. On all other sliding surfaces, STA-PUT No. 512, or equivalent, is recommended.

(Do not oil or grease record separator shelves.)

It is important that the drive motor spindle and the rubber tire on the idler wheel be kept clean and free from oil or grease, dirt, or any foreign material at all times. Carbon tetrachloride or naphtha is satisfactory for cleaning these parts.

CAUTION

1. Avoid handling the pickup arm when the mechanism is in cycle.
2. Do not use force to release a jam.
3. Do not try to remove the records on the turntable if the turntable is stopped in cycle.
4. If the separator knives protrude from the center post when the mechanism is out of cycle, push the "start-reject" knob to reject and the condition should be corrected automatically.

AUTOMATIC OPERATION

1. Place a stack of records over the center post, with the desired selections upward, the last record to be played on top.
2. Push the "start-reject" knob to "start" (forward) and release. The mechanism will automatically play in sequence one side of each record stacked on the separator shelves.
3. To reject a record being played, push the "start-reject" knob.
4. At conclusion of playing and as the last record is being repeated, lift the pickup arm and place on its rest. Turn off the power to the drive motor by pushing back on control knob.
5. Remove the stack of records by lifting them straight up.

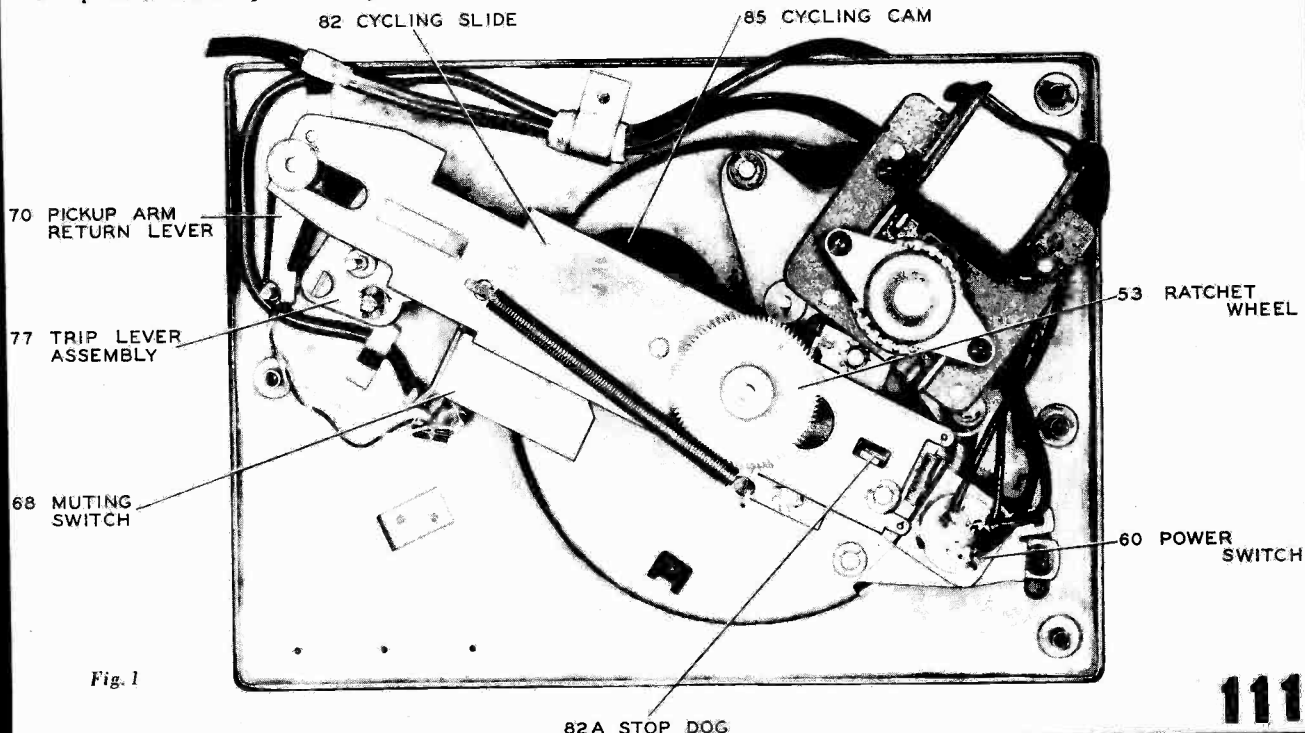


Fig. 1

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

RP-190 Series

Trip Lever (77)

The trip lever is mounted on the bottom end of the pickup arm vertical pivot shaft. The function is to transfer the movement of the pickup arm to parts of the operating mechanism below the motor board. The end of the trip lever contacts stud on cycling cam thereby starts tripping action.

Pickup Arm Return Lever (70)

The function of the pickup arm return lever is to provide a force necessary to push the pickup into landing position. The end of the pickup arm return lever is curved so as to provide a stop for trip lever. This stop determines landing position of the pickup.

Function of Principal Parts

Reject Lever (22)

The function of the reject lever is to transfer the action of the control knob to the cycling cam thereby starting a change cycle.

Muting Switch (68)

The function of the muting switch is to short the pickup leads to prevent amplifying of mechanical noise, of the mechanism during change cycle.

Cycling Cam (85)

The cycling cam is mounted on the cycling slide. The function of the cam is to transfer the rotary motion of the turntable shaft into sliding motion of the cycling slide.

Stop Dog (82A)

The stop dog is mounted on the end of cycling slide. The function of the stop dog is to engage the ratchet wheel on the separator shaft and prevent it from rotating, at the exact moment during change cycle.

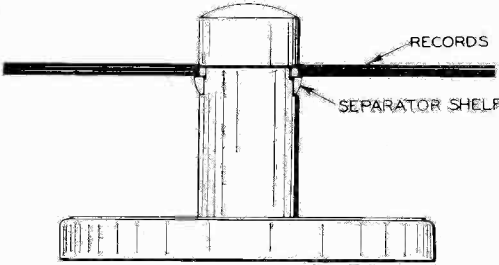
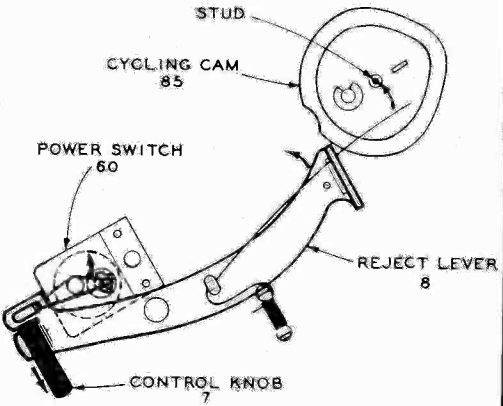
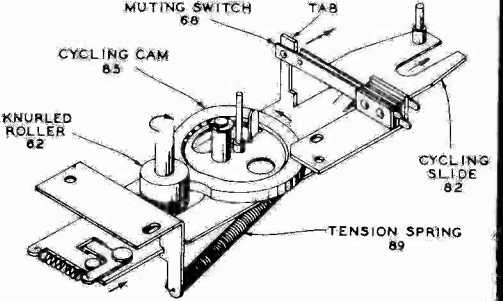
Ratchet Wheel (53)

The function of the ratchet wheel located on the end of the separator shaft is to keep the separator shaft stationary at the proper time, so as to actuate the separator mechanism inside the centerpost.

Cycling Slide (82)

The cycling slide is the main connecting medium between the various moving parts.

Cycle of Operation

| FUNCTION | EXPLANATION |
|---|--|
| Place a stack of records over centerpost. | <ol style="list-style-type: none"> Records rest on separator shelves protruding from either side of the centerpost.  <p style="text-align: center;">Fig. 3</p> |
| Push control knob to reject. | <ol style="list-style-type: none"> The control first actuates the power switch applying power to the drive motor. This starts the turntable rotating. Further movement of the control knob actuates the reject lever assembly (8) which contacts the stud mounted on the eccentric cycling cam and moves it slightly.  <p style="text-align: center;">Fig. 4</p> |
| Cycling starts. | <ol style="list-style-type: none"> The slight movement of the eccentric cycling cam (85) is sufficient for engagement with the rotating knurled roller (62) mounted on turntable shaft. The eccentric cycling cam which is mounted on the cycling slide (82) pushes the slide in the direction of the pickup arm pivot. In so doing tension is increased on the slide return spring (89). The tab on the cycling slide moves back permitting muting switch to close.  <p style="text-align: center;">Fig. 5</p> |

Cycle of Operation—Continued

Pickup raises from the rest.

1. As the cycling slide continues to move in the direction of the pickup arm pivot the small incline pressed in the slide causes the elevating rod (74) to lift the pickup arm from the rest.
2. The raised pickup arm moves inward slightly from the inward force of the pickup arm return lever (70), until the stud on the trip lever (77) assembly comes against edge of the cycling slide.
3. The cycling slide continues to move further, which pushes the trip lever back. The eccentric landing adjustment stud (79) contacts and pushes the pickup arm return lever (70) against the tension of the return spring (69).

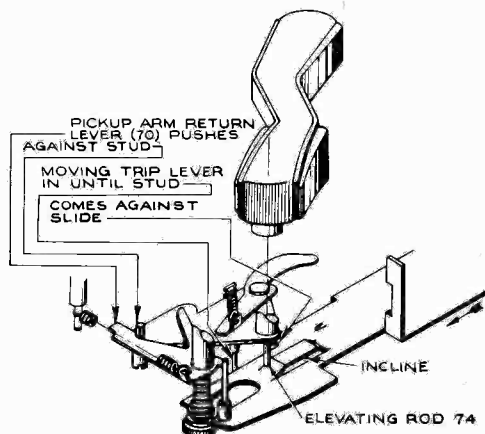


Fig. 7

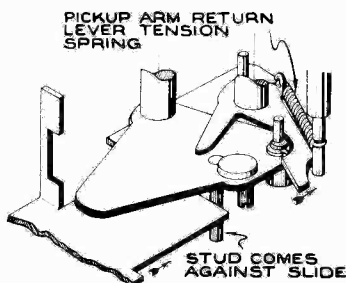


Fig. 6

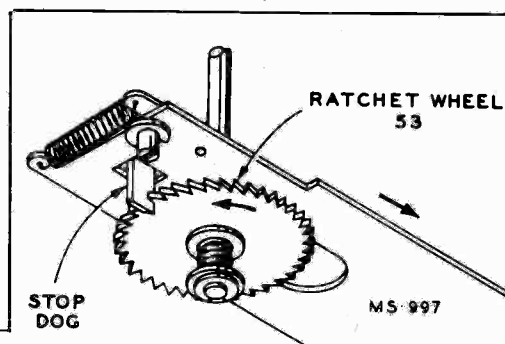


Fig. 8

Separator knives separate the lower record from the stack and the lower record drops to the turntable.

1. As the cycling slide reaches the limit in its movement in the direction of the pickup arm pivot, the stop dog mounted on the slide engages the rotating ratchet wheel (53).
2. The ratchet wheel and separator shaft (6) then remains stationary and the turntable continues to rotate.
3. The separator shelves and knives are coupled together in such a manner that the flattened end of the separator shaft pushes the knives out, which in turn pulls the opposite shelves in.
4. As the shelves recede, the separator knives mounted above the shelves move out and separate the lower record of the stack and support the remaining records while the lower record drops to the turntable.

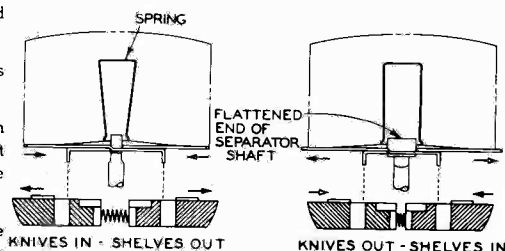


Fig. 9

Pickup moves in for landing.

1. The cycling slide moves away from the pickup arm pivot, due to the force produced by the tension spring (89) keeping the eccentric cycling cam against the rotating knurled roller (62). The knurled roller at this time is returning to the smaller diameter of the cam.
2. The stud on trip lever assembly follows the slide due to the force produced by the action of the pickup arm return lever.
3. After the slide has moved back a short distance the stud on the trip lever assembly no longer follows the slide since the landing adjustment stud comes against the curved stop on the end of the pickup arm return lever. At this moment the pickup is directly above the point of landing.
4. As the cycling slide completes the return movement the elevating rod slides down the incline which lowers the stylus on the record.

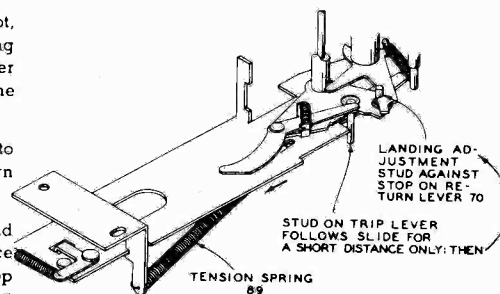


Fig. 10

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

RP-190 Series

Cycle of Operation—Continued

Cycle completed and the record plays.

1. The tab on the cycling slide contacts and opens the muting switch.
2. The stud on the cycling slide pushes pickup arm return lever back to permit free motion of the pickup arm.
3. The change cycle is completed as the cycling slide comes against the stop bracket, at which time the knurled roller rotates in the cut away section of the cam.
4. As the record plays and the pickup arm moves inward.
5. When the stylus reaches the end of the selection the end of the trip lever contacts the stud on the cycling cam, and pushes it slightly.
6. The slight movement of the cycling cam causes engagement with the rotating knurled roller, thereby starting a change cycle.
7. The mechanism repeats the preceding sequence of operations until the last record of the stack has dropped and has been played. This selection will be repeated until the pickup is lifted and placed on the rest.

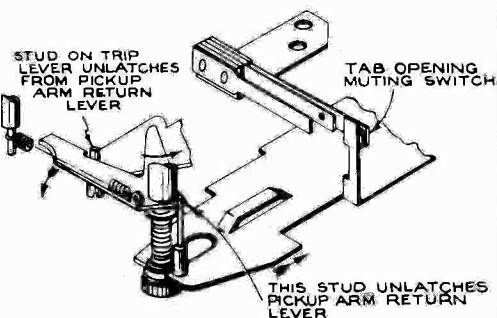


Fig. 11

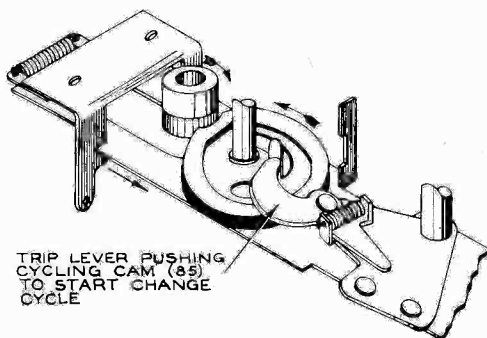


Fig. 13

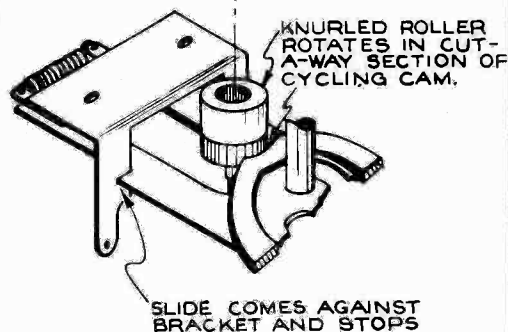
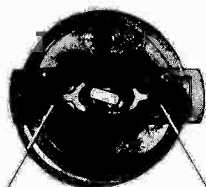


Fig. 12

DO YOU KNOW?

IF THIS SPRING IS LOOSE OR MISSING, PICKUP WILL NOT LAND PROPERLY

IF THERE IS A BIND IN THIS PIVOT, MECHANISM MAY NOT TRIP



IF THE SHELVES ARE GREASED, FOREIGN MATERIAL MAY COLLECT AND CAUSE BINDING. TENSION SPRINGS MAY NOT HAVE SUFFICIENT FORCE TO PUSH THE SHELVES OUT.

Fig. 16

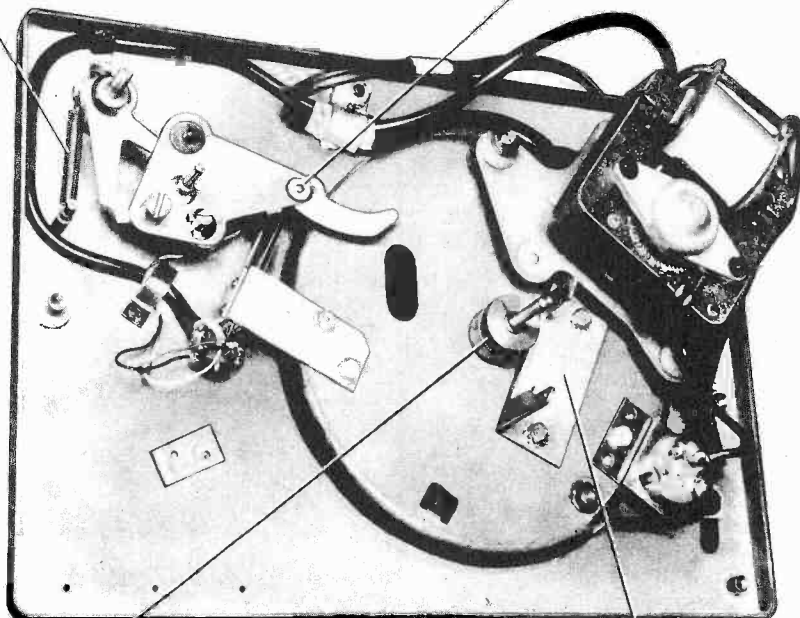


Fig. 14

IF THIS KNURLED ROLLER IS LOOSE, MECHANISM MAY FAIL TO COMPLETE CYCLE

IF THIS BRACKET IS IMPROPERLY ADJUSTED, THE CYCLING SLIDE MAY BIND OR CONTINUOUS TRIPPING MAY RESULT

REJECT CONTROL FAILS TO OPERATE

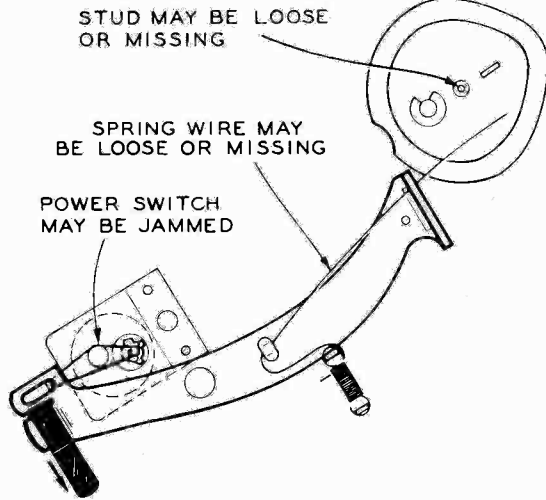


Fig. 17

MECHANISM FAILS TO SEPARATE RECORDS PROPERLY

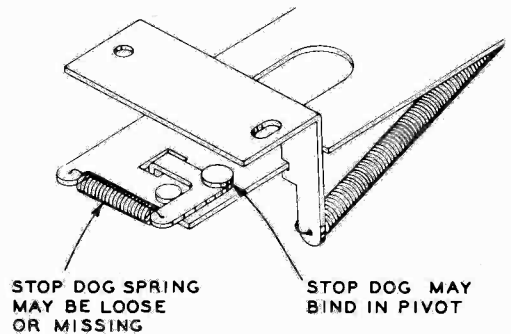


Fig. 18

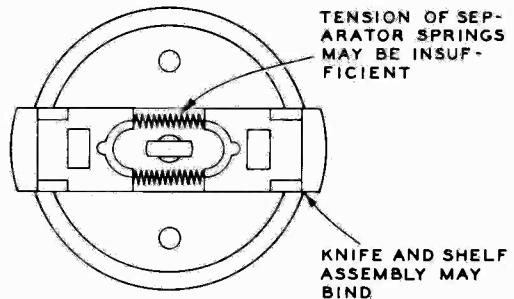


Fig. 19

RECORD STRIKES PICKUP ARM WHEN DROPPING

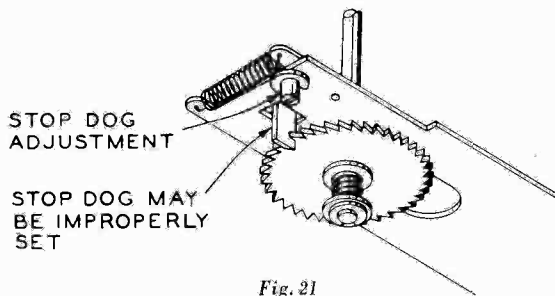
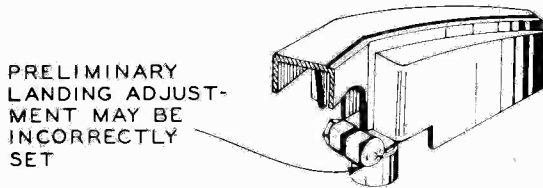


Fig. 21

FRICITION BETWEEN RATCHET WHEEL AND FRICTION COLLAR MAY NOT BE SUFFICIENT

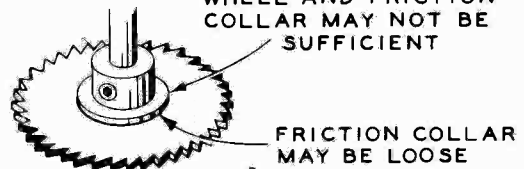


Fig. 20

PREMATURE TRIPPING

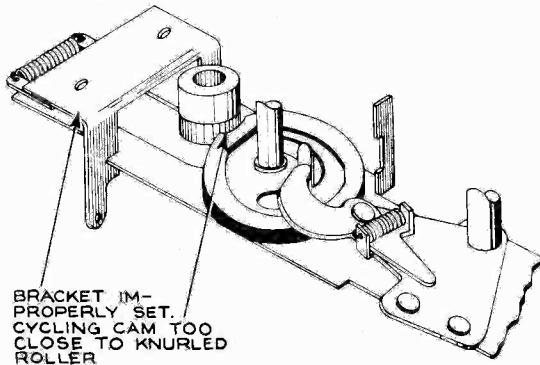


Fig. 30

PICKUP SKIPS GROOVES

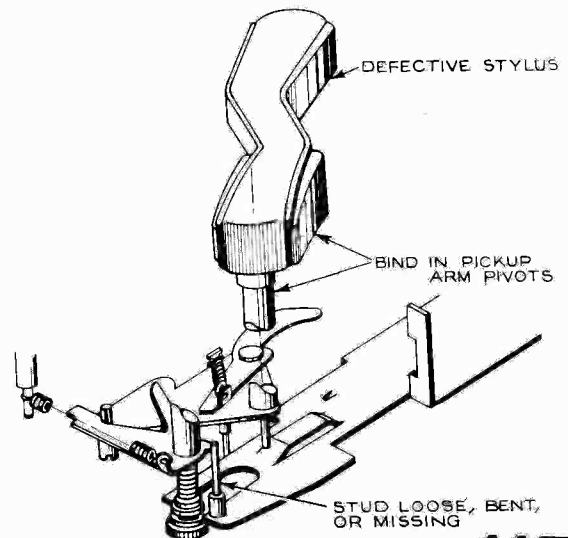


Fig. 25

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

RP-190 Series

PICKUP FAILS TO LAND PROPERLY

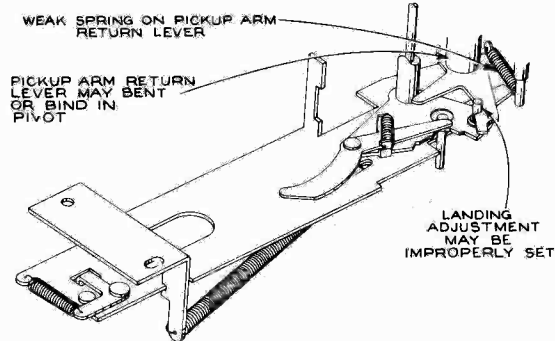


Fig. 22

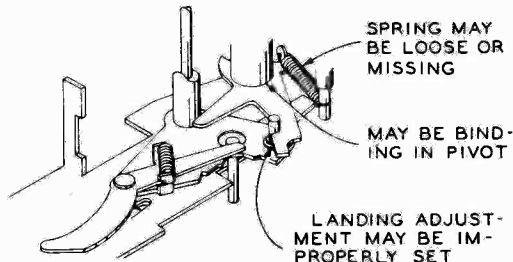


Fig. 23

CONTINUOUS TRIPPING

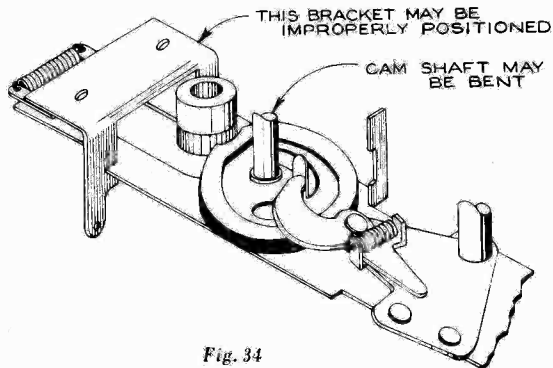


Fig. 34

MECHANISM FAILS TO TRIP

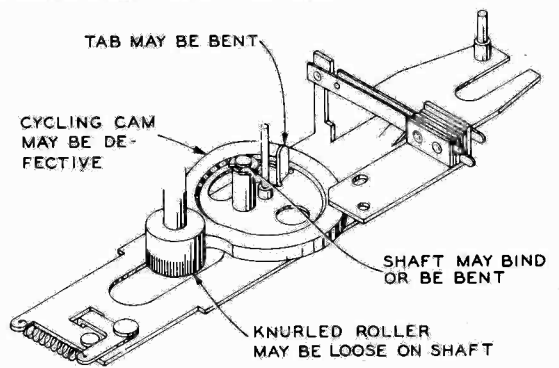


Fig. 26

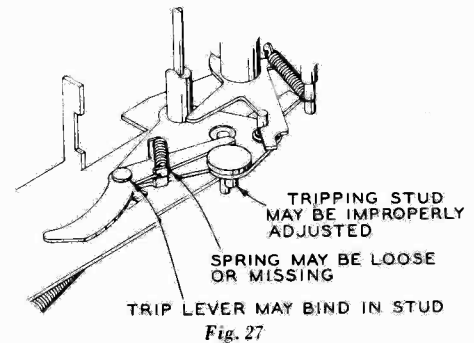


Fig. 27

MECHANISM FAILS TO COMPLETE CYCLE

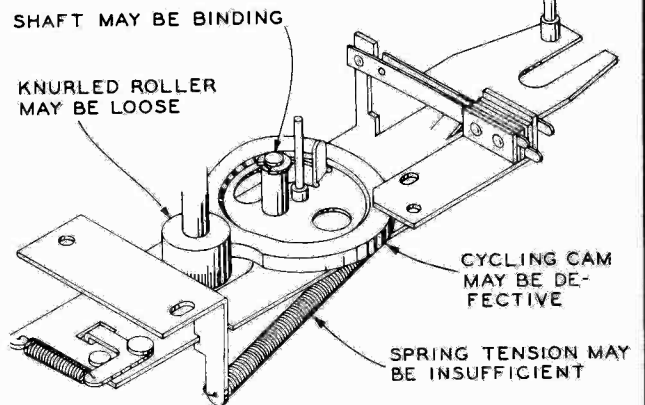


Fig. 35

ADJUSTMENTS

LANDING

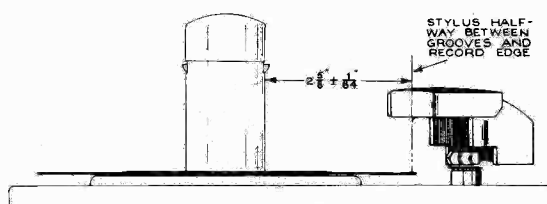


Fig. 36

TRIPPING

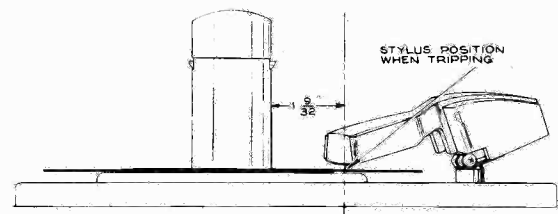


Fig. 37

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

ADJUSTMENTS (Continued)

RP-190 Series

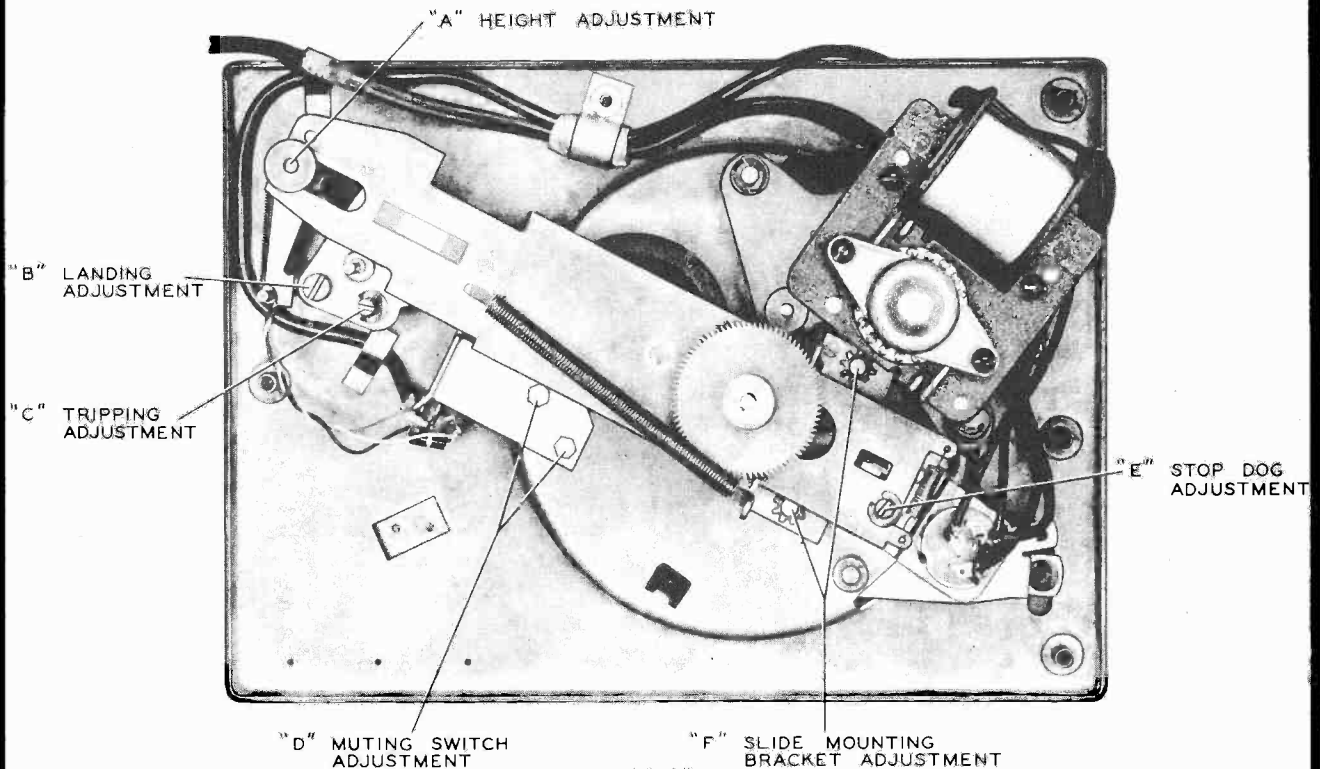


Fig. 38

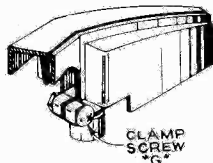


Fig. 39

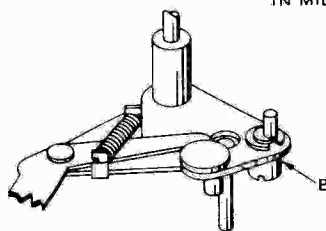


Fig. 40

LANDING ADJ.
ECCENTRIC STUD
IN MID POSITION

POSITION OF LANDING ADJ.
ECCENTRIC STUD FOR PICKUP
FURTHERST—

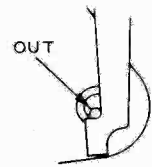
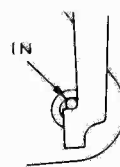
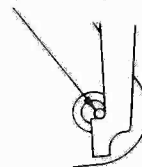


Fig. 41

Adjustments

Pickup Landing Adjustment:

Under ordinary conditions the landing adjustment is a screw-driver adjustment as shown. The adjustment of eccentric landing adjustment stud (B) gives approximately a $\frac{1}{4}$ " movement. (See Figs. 38, 40.)

If, however, the pickup arm has been removed it is first necessary to make an approximate landing adjustment as follows:

1. With the mechanism out of cycle and the clamp screw (G) (Fig. 39) loose, place pickup arm on the rest and tighten clamp screw enough to prevent the clamp from slipping on the shaft.
2. Set the landing adjustment stud (B) as shown (mid-adjustment). (See Figs. 40, 41.)
3. With the power removed, push reject control to reject. Rotate turntable by hand in the correct direction until the pickup is about ready to land.
4. Loosen clamp screw (G) and move pickup arm so the stylus is approximately $2\frac{3}{8}$ " from side of centerpost. Tighten clamp screw. (See Figs. 36, 39.)
5. Exact landing adjustment can now be made by a screw-driver on stud (B). (See Fig. 38.)

Pickup Height Adjustment (See Fig. 38):

Adjust knurled nut (A) until the distance (during change cycle) between the top of the turntable and the stylus point is approximately $1\frac{1}{8}$ ".

NOTE: If unable to adjust for sufficient height, it may be necessary to cut a few turns from the compression spring to allow more space on the shaft.

Tripping Adjustment (See Figs. 37, 38):

Adjust the eccentric tripping stud (C) until the mechanism trips when the stylus is $1\frac{9}{32}$ " from the side of the centerpost.

Mounting Bracket Adjustment (See Fig. 38):

Loosen the two screws (F) and move the bracket so it is as near perpendicular to the slide as possible. Move back or forward until the cut away section of the cycling cam clears the knurled roller approximately $1/16$ ". Tighten screws.

Muting Switch Adjustment (See Fig. 38):

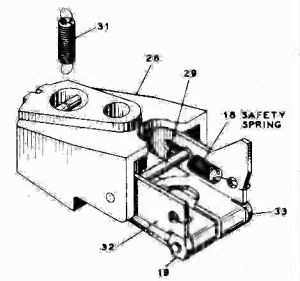
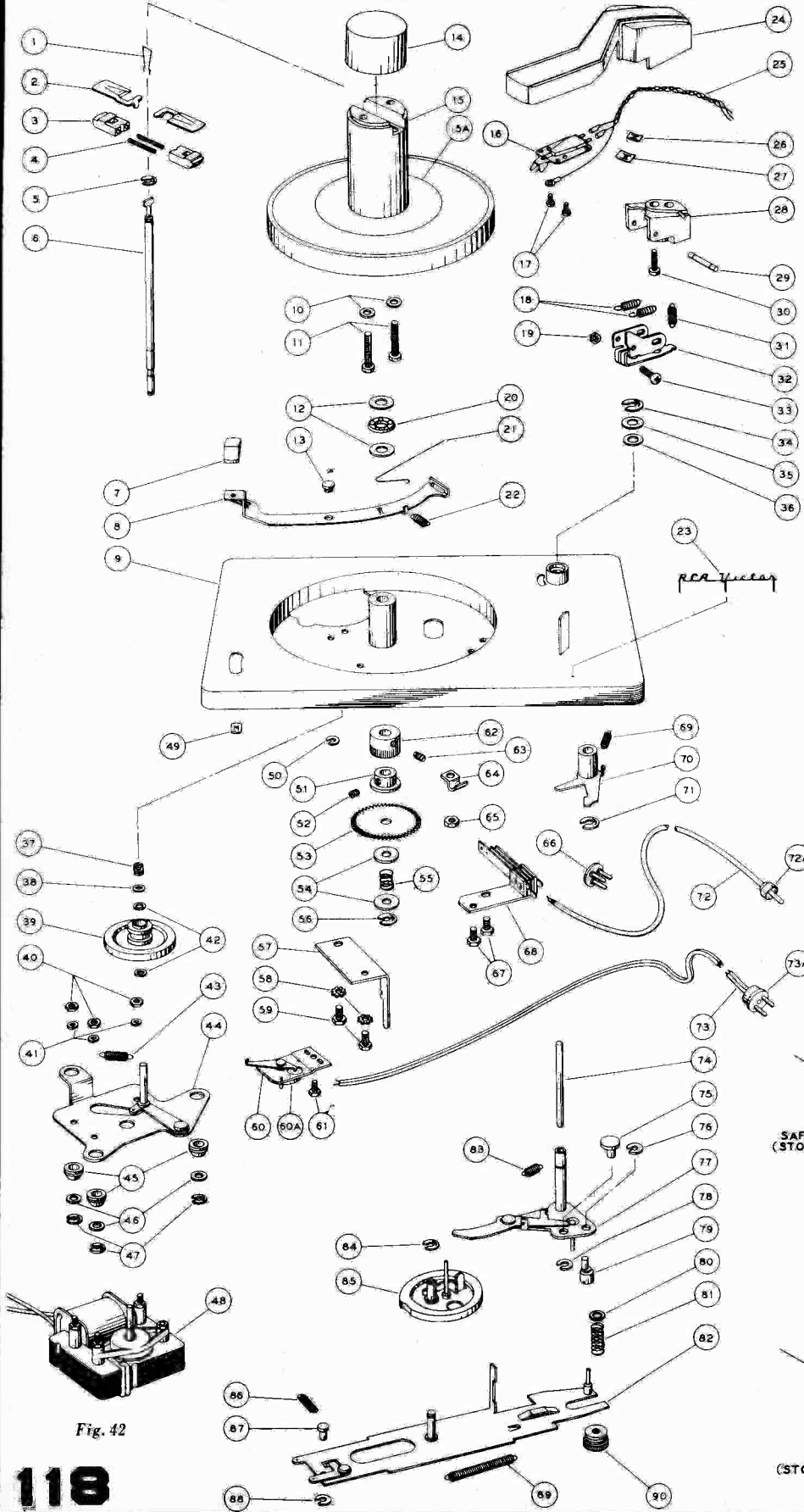
Loosen the two screws (D) and adjust the position of the switch so the contacts are approximately $1/32$ to $1/16$ inches apart when the mechanism is out of cycle. If the mounting screws do not give sufficient adjustment, bend tab on slide slightly.

Stop Dog Adjustment (See Fig. 38):

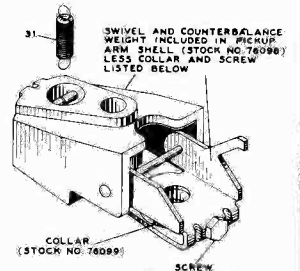
Turn the eccentric screw (E) until the record drops turntable without striking the pickup arm.

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

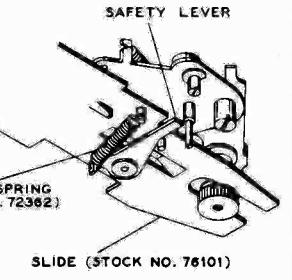
RP-190 Series



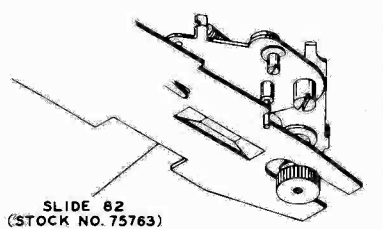
Original counterbalance and swivel assembly



New counterbalance and swivel assembly part of pickup-arm
 COLLAR (STOCK NO. 76099)
 SCREW (STOCK NO. 78100)



SAFETY LEVER
 SAFETY SPRING (STOCK NO. 72362)
 SLIDE (STOCK NO. 76101)
 New cycling slide



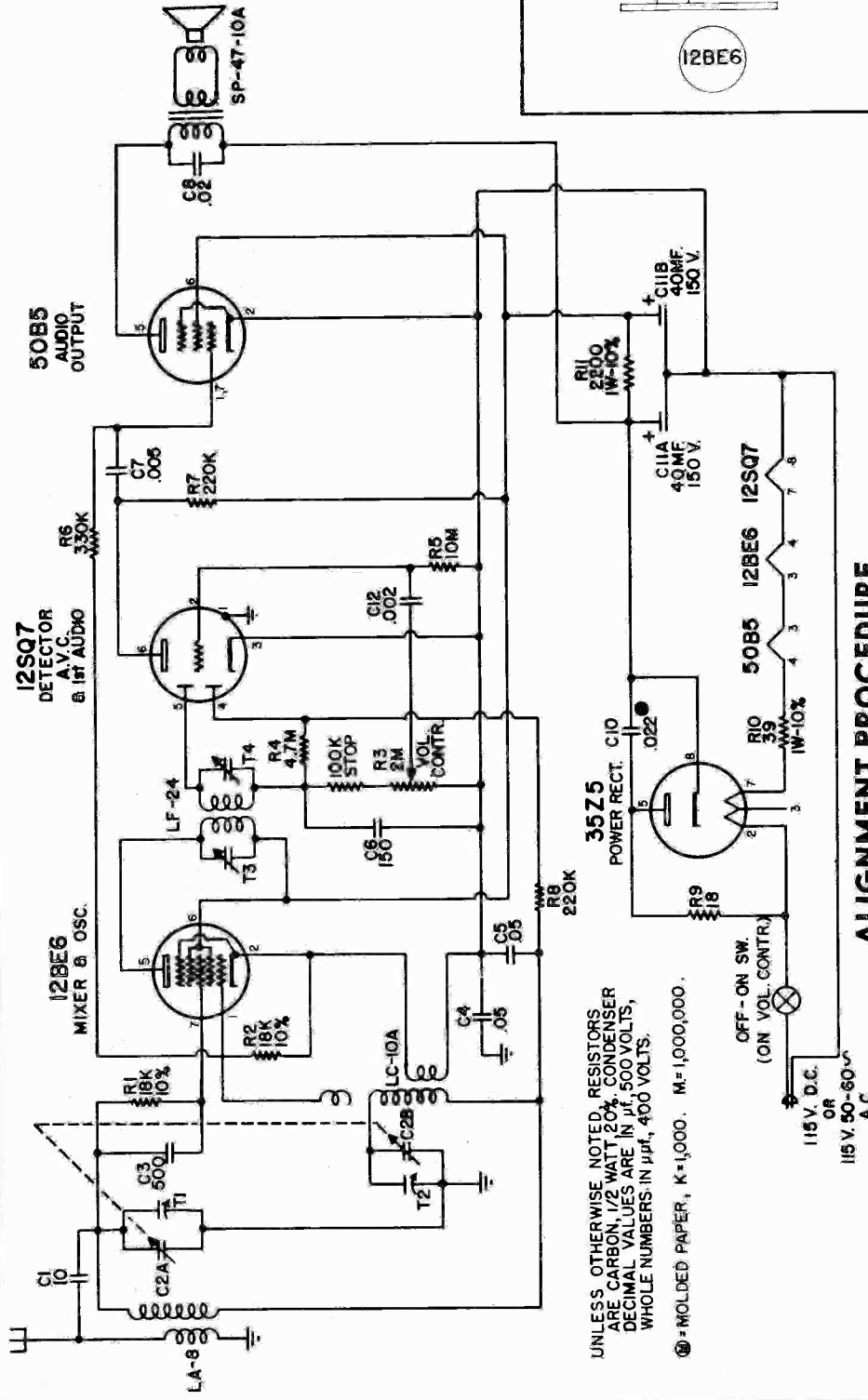
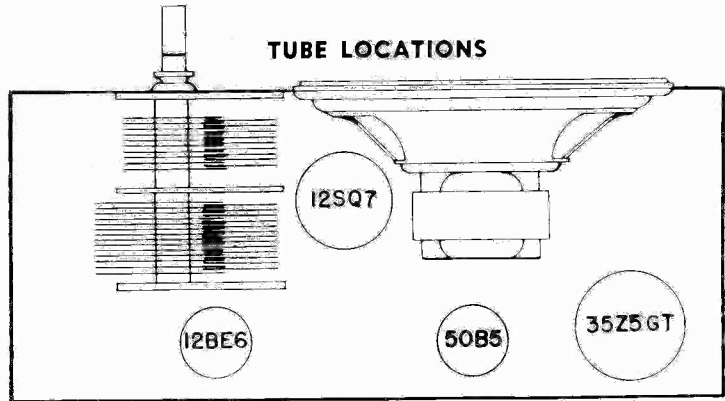
SLIDE 82 (STOCK NO. 75763)
 Original cycling slide

Fig. 42

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Silvertone

Sears, Roebuck & Co.
Set Catalog No. 4,
Chassis 478.233



UNLESS OTHERWISE NOTED, RESISTORS ARE CARBON, 1/2 WATT 20% CONDENSER DECIMAL VALUES ARE IN μ F, 500 VOLTS, WHOLE NUMBERS IN μ F, 400 VOLTS.

Ⓜ = MOLDED PAPER, K=1,000. M=1,000,000.

ALIGNMENT PROCEDURE

| Position of Tuner | SIGNAL GENERATOR | | | Trimmer Adjustments (In order shown) |
|--------------------------------------|------------------|-----------------|------------------------|---|
| | Frequency | Coupling Factor | Connection to Receiver | |
| Rotor Full Open (Plates out of mesh) | 455 kc. | .1 mfd | Grid of 12BE6 (Pin 7) | Input and Output Trimmers on I.F. Can T3 and T4 |
| Rotor Full Open (Plates out of mesh) | 1620 kc. | .1 mfd | Grid of 12BE6 (Pin 7) | Oscillator Trimmer T2 |
| 1400 kc. | 75 mmf | Antenna Hank | Antenna Trimmer T1 | Antenna Trimmer T1 |
| 600 kc. | 75 mmf | Antenna Hank | Chassis | (Check Point)* |

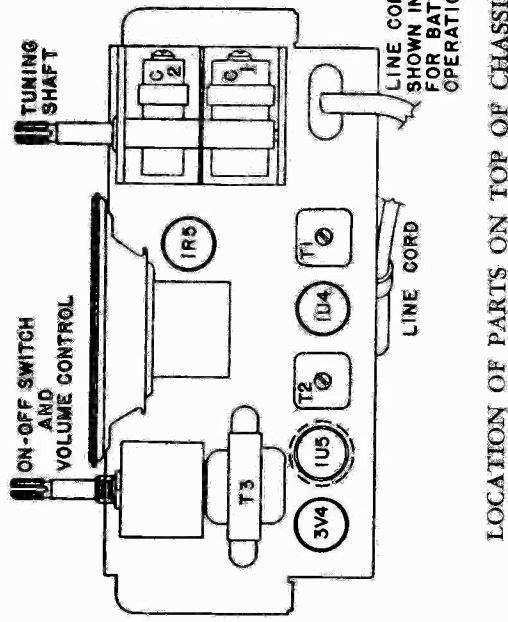
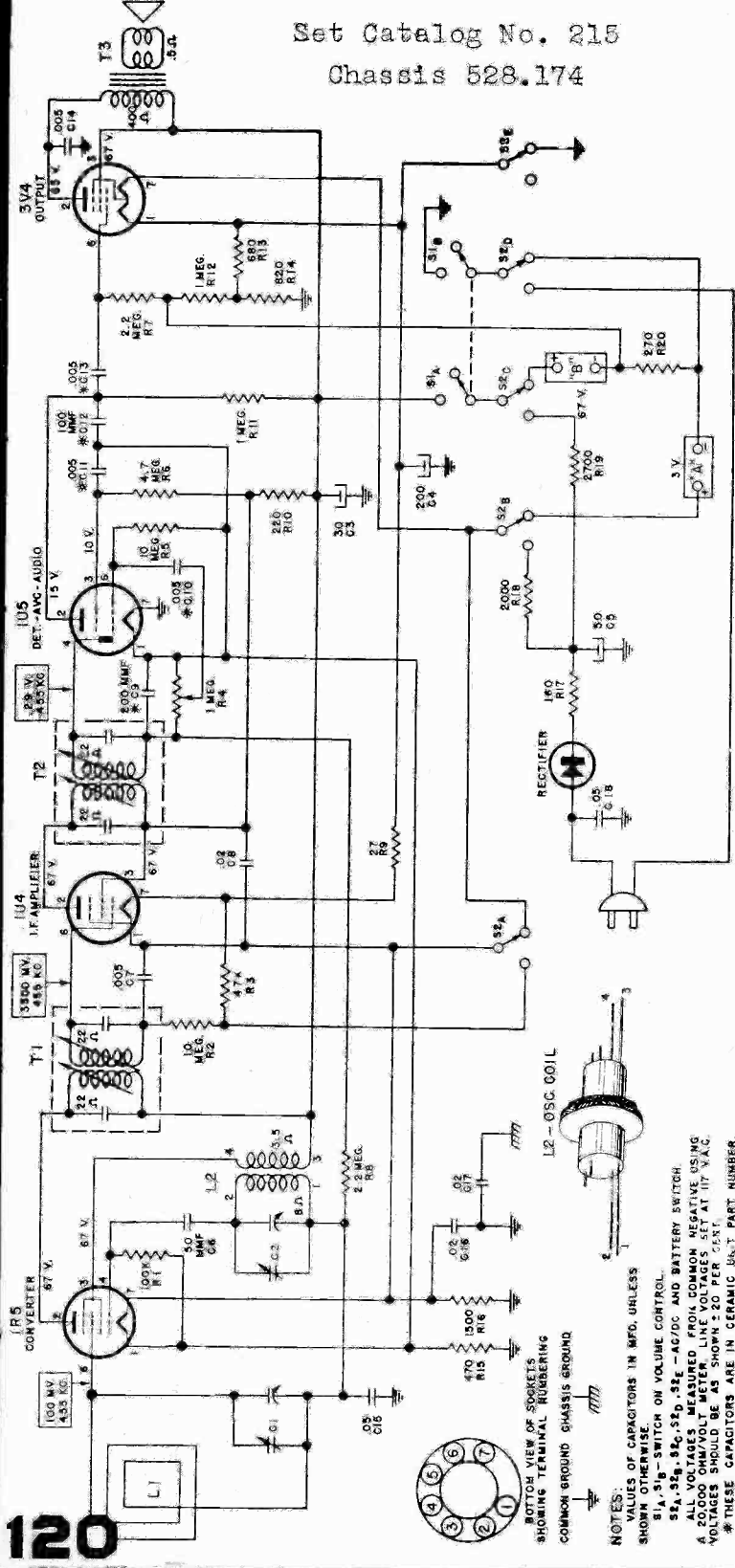
MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Silvertone

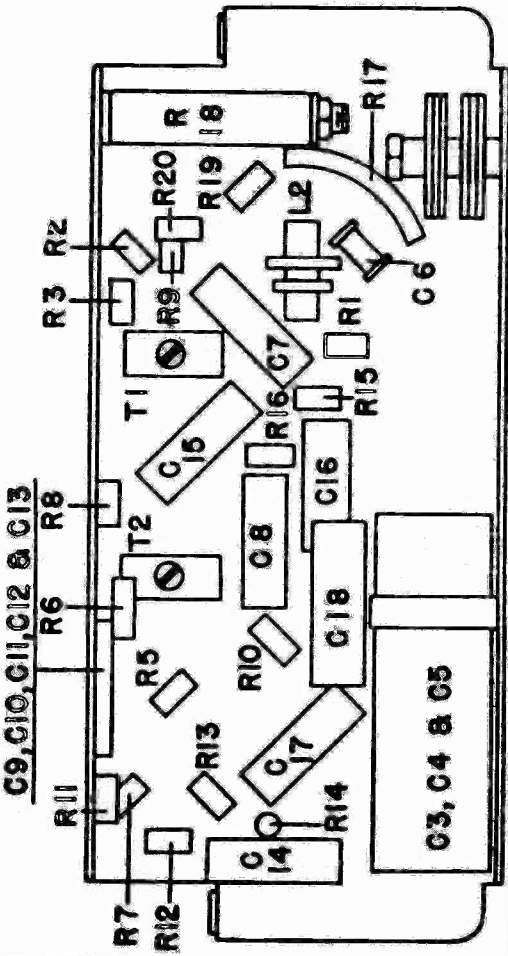
4 TUBE BATTERY-AC-DC SUPERHETERODYNE PORTABLE RECEIVER

Set Catalog No. 215

Chassis 528.174



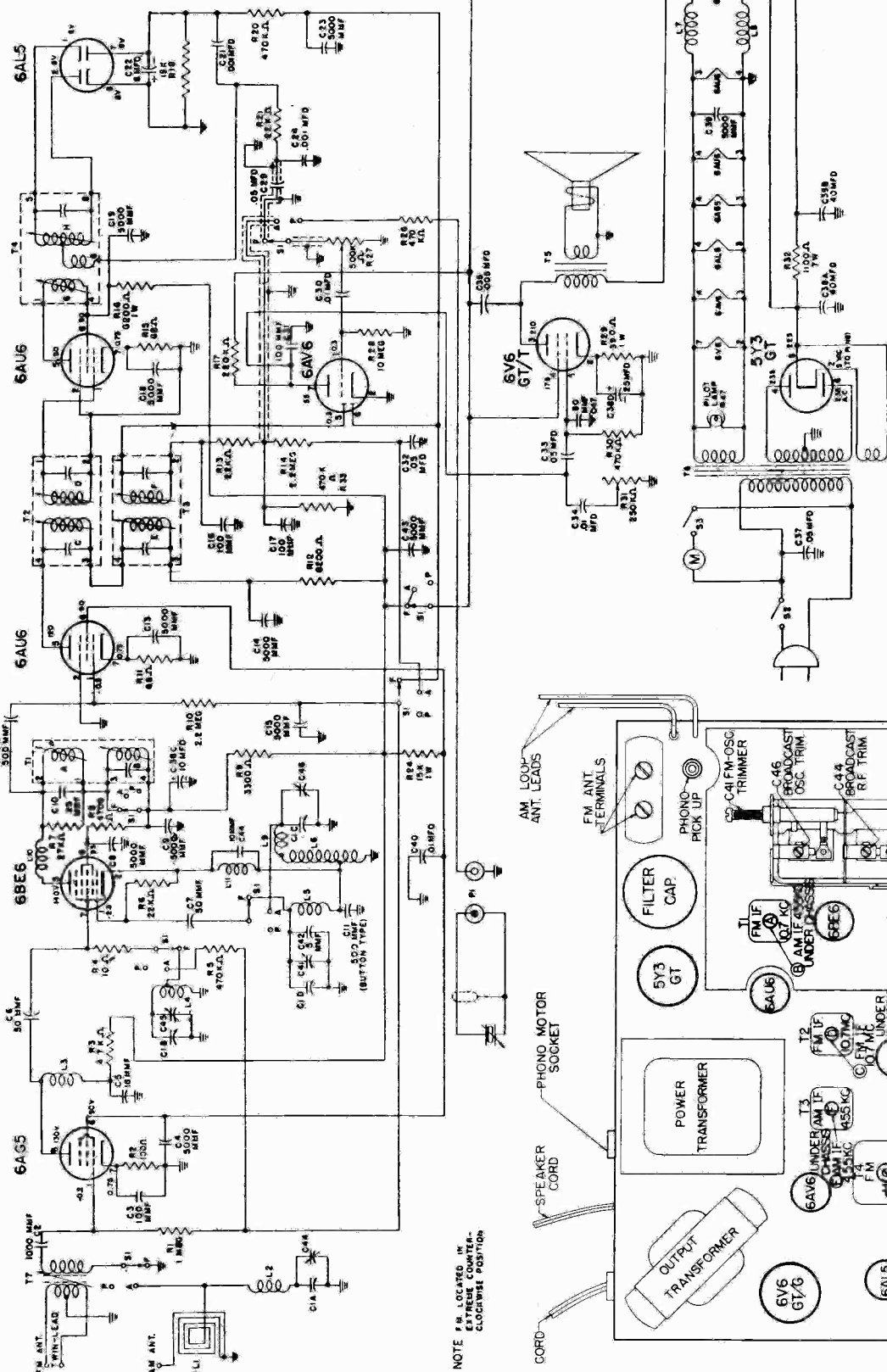
LOCATION OF PARTS ON TOP OF CHASSIS



NOTES:
 VALUES OF CAPACITORS IN MFD. UNLESS SHOWN OTHERWISE.
 5A, 5B - SWITCH ON VOLUME CONTROL.
 ALL VOLTAGES MEASURED FROM COMMON NEGATIVE USING 4.5 VOLTS BATTERY.
 ALL VOLTAGES MEASURED FROM COMMON POSITIVE USING 300 PC-455 BATTERY.
 * THESE CAPACITORS ARE IN CERAMIC UNLESS PART NUMBER IS SHOWN.

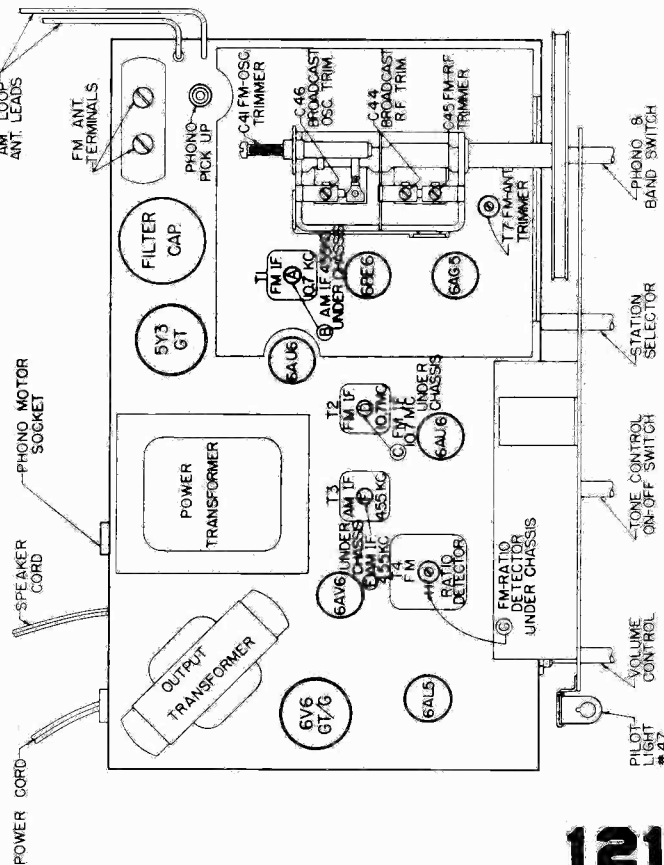
MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Silvertone



Sears, Roebuck & Co.
Set Catalog No. 9103

Chassis 110.490



MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Silvertone

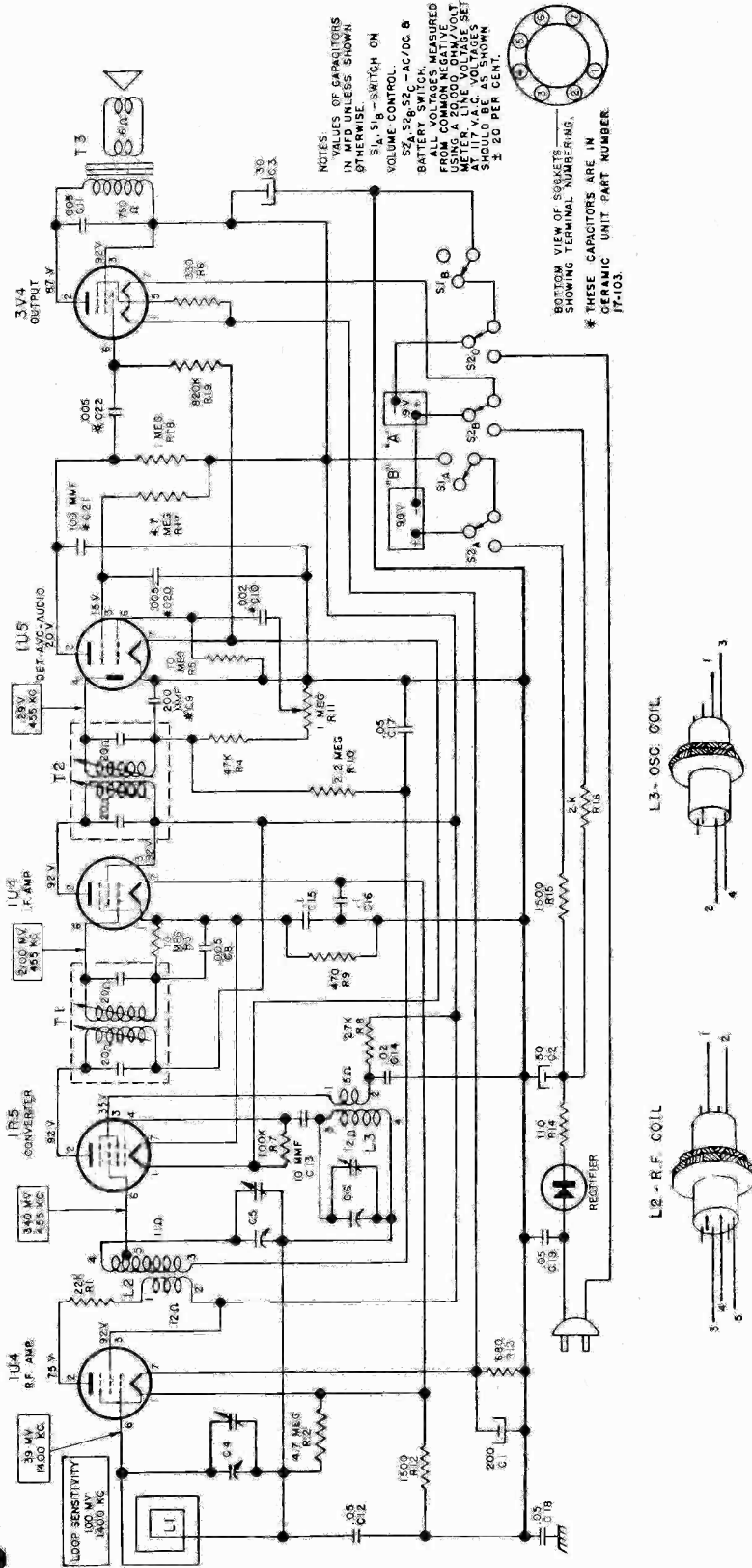
Set Catalog No. 225

Chassis 528.171 and 528.171-1

5 TUBE BATTERY-AC-DC SUPERHETERODYNE PORTABLE RECEIVER

CATALOG No. 225

Silvertone

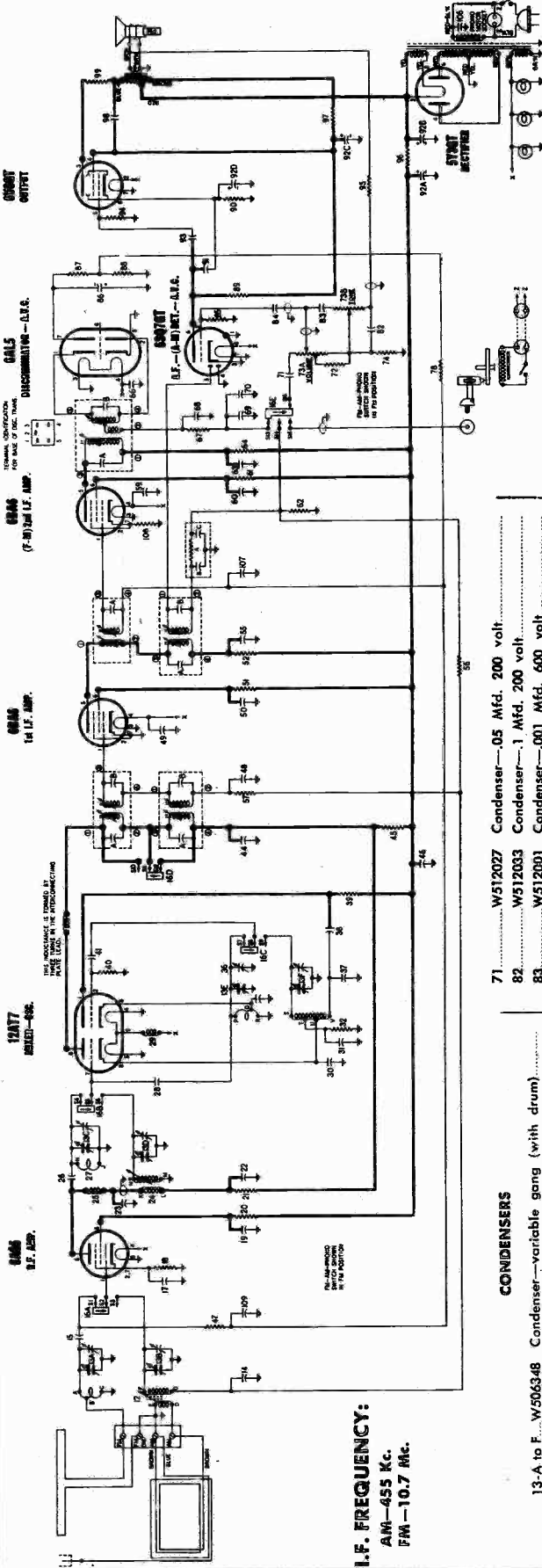


SCHEMATIC DIAGRAM FOR SILVERTONE CHASSIS 528.171-1

Chassis 528.171-1 is the same as 528.171 except for the Battery/AC/DC changeover system. The hand-operated switch is replaced by a type which is operated by plugging the power cord into a chassis socket. The socket is near the back edge of the chassis. There is a slot for only one prong of the power cord plug; the other prong hangs over the back apron. The detachable power cord and the socket for it on the chassis are replaced by a conventional power cord.



MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS



I.F. FREQUENCY:
AM—455 Kc.
FM—10.7 Mc.

CONDENSERS

- | | | |
|------------|---------|--|
| 13-A to F | W506348 | Condenser—variable gang (with drum) |
| 14 | W512027 | Condenser—.05 Mfd. 200 volt |
| 15 | W513406 | Condenser—ceramic 22 Mmfd. 500 volt (Temperature compensating) |
| 17 | W513002 | Condenser—ceramic 47 Mmfd. 500 volt |
| 19 | W513013 | Condenser—ceramic 5000 Mmfd. 450 volt |
| 22 | W513013 | Condenser—ceramic 5000 Mmfd. 450 volt |
| 23 | W513002 | Condenser—ceramic 47 Mmfd. 500 volt |
| 26 | W513401 | Condenser—ceramic 5 Mmfd. ± 10% 500 volt (Temperature compensating) |
| 28 | W513000 | Condenser—ceramic 1.0 Mmfd. 500 volt |
| 30 | W513007 | Condenser—ceramic 330 Mmfd. 500 volt |
| 31 | W512009 | Condenser—.01 Mfd. 200 volt |
| 35 | W513429 | Condenser—ceramic 10 Mmfd. ± 10% 500 volt (Temperature compensating) |
| 36 | W506336 | Condenser—trimmer; 3 to 30 Mmfd. |
| 37 | W513442 | Condenser—ceramic 10 Mmfd. ± 10% 500 volt (Temperature compensating) |
| 38 | W513013 | Condenser—ceramic 5000 Mmfd. 450 volt |
| 41 | W513409 | Condenser—ceramic 39 Mmfd. ± 5% 500 volt (Temperature compensating) |
| 44 | W513013 | Condenser—ceramic 5000 Mmfd. 450 volt |
| 46 | W513013 | Condenser—ceramic 5000 Mmfd. 450 volt |
| 48, 49, 50 | W513013 | Condenser—ceramic 5000 Mmfd. 450 volt |
| 55 | W513013 | Condenser—ceramic 5000 Mmfd. 450 volt |
| 59, 60 | W513013 | Condenser—ceramic 5000 Mmfd. 450 volt |
| 63 | W513013 | Condenser—ceramic 5000 Mmfd. 450 volt |
| 66 | W513013 | Condenser—ceramic 5000 Mmfd. 450 volt |
| 68 | W513007 | Condenser—ceramic 330 Mmfd. 500 volt |
| 69 | W512005 | Condenser—.003 Mfd. 600 volt |
| 70 | W513003 | Condenser—ceramic 100 Mmfd. 500 volt |

RESISTORS

- | | | |
|------------|---------|--|
| 71 | W512027 | Condenser—.05 Mfd. 200 volt |
| 82 | W512033 | Condenser—.1 Mfd. 200 volt |
| 83 | W512001 | Condenser—.001 Mfd. 600 volt |
| 84 | W512009 | Condenser—.01 Mfd. 200 volt |
| 86 | W504937 | Condenser—electrolytic 5 Mfd. 50 volt |
| 91 | W513008 | Condenser—electrolytic |
| 92-A,B,C,D | W505908 | Condenser—electrolytic |
| | | A—30 Mfd. 450 volt |
| | | B—40 Mfd. 450 volt |
| | | C—10 Mfd. 450 volt |
| | | D—20 Mfd. 25 volt |
| 93 | W512009 | Condenser—.01 Mfd. 200 volt |
| 98 | W512001 | Condenser—.001 Mfd. 600 volt |
| 106 | W512256 | Condenser—.01 Mfd. 600 volt |
| 107 | W513013 | Condenser—ceramic 5000 Mmfd. 450 volt |
| 109 | W513013 | Condenser—ceramic 5000 Mmfd. 450 volt |
| 18 | W510117 | Resistor—carbon 82 Ohms ± 10% ½ watt |
| 20 | W510164 | Resistor—carbon 33,000 Ohms ½ watt |
| 21 | W510237 | Resistor—carbon 1000 Ohms 1 watt |
| 32 | W510141 | Resistor—carbon 1800 Ohms ± 10% ½ watt |
| 39 | W510249 | Resistor—carbon 4700 Ohms 1 watt |
| 40 | W510155 | Resistor—carbon 10,000 Ohms ½ watt |
| 45 | W510237 | Resistor—carbon 1000 Ohms 1 watt |
| 47 | W510167 | Resistor—carbon 47,000 Ohms ½ watt |
| 51 | W510165 | Resistor—carbon 39,000 Ohms ± 10% ½ w. |
| 52 | W510237 | Resistor—carbon 1000 Ohms 1 watt |
| 56 | W510193 | Resistor—carbon 2.2 Meg. ½ watt |
| 57 | W510173 | Resistor—carbon 100,000 Ohms ½ watt |
| 61 | W510165 | Resistor—carbon 39,000 Ohms ± 10% ½ w. |
| 62 | W510185 | Resistor—carbon 470,000 Ohms ½ watt |

- | | | |
|----------|---------|--|
| 64 | W510237 | Resistor—carbon 1089 Ohms 1 watt |
| 67 | W510159 | Resistor—carbon 18,000 Ohms ± 10% ½ w. |
| 72 | W510170 | Resistor—carbon 68,000 Ohms ½ watt |
| 73-A,B,C | W508483 | Volume and tone control |
| | | A—2 Meg. |
| | | B—2 Meg. switch |
| | | C—ON-OFF, switch |
| 74 | W510128 | Resistor—carbon 330 Ohms ½ watt |
| 78 | W510193 | Resistor—carbon 2.2 Meg. ½ watt |
| 85 | W510195 | Resistor—carbon 4.7 Meg. ½ watt |
| 87, 88 | W510153 | Resistor—carbon 8200 Ohms ± 10% ½ watt |
| 89 | W510179 | Resistor—carbon 220,000 Ohms ½ watt |
| 90 | W510128 | Resistor—carbon 330 Ohms ½ watt |
| 94 | W510185 | Resistor—carbon 470,000 Ohms ½ watt |
| 95 | W510148 | Resistor—carbon 4700 Ohms ± 10% ½ watt |
| 96 | W510732 | Resistor—wire wound 2000 Ohms ± 10% 10 watts |
| 97 | W510261 | Resistor—carbon 27,000 Ohms 1 watt |
| 99 | W510113 | Resistor—carbon 47 Ohms ± 10% ½ watt |
| 108 | W510115 | Resistor—carbon 68 Ohms ± 10% ½ watt |

WIRING DIAGRAM

FOR SILVERTONE

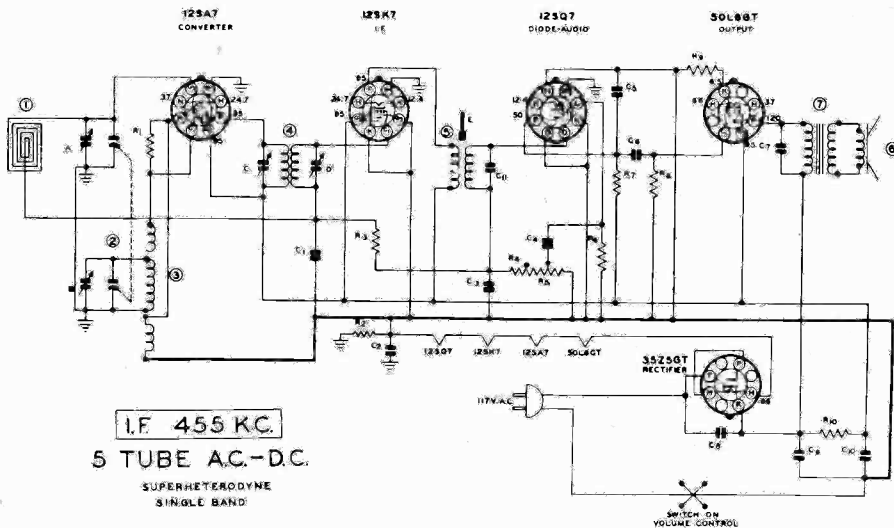
CHASSIS 100.201

Catalog No. 69

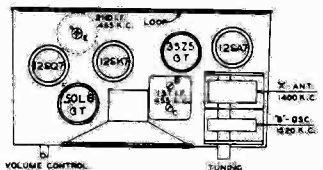
MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Sonora Radio & Television Corp.

Model 105



| PART NO. | DESCRIPTION |
|----------|---------------------------------|
| R1 | 5000 Ohm 1/2W 20% |
| R2 | 47000 Ohm 1/2W 20% |
| R3 | 100000 Ohm 1/2W 20% |
| R4 | 100000 Ohm 1/2W 20% |
| R5 | 68 Ohm 1/2W 20% |
| R6 | 500000 Ohm 1/2W 20% with Switch |
| C1 | 500 MFD 50V 50% |
| C2 | 100 MFD 50V 50% |
| C3 | 100 MFD 50V 50% |
| C4 | 100 MFD 50V 50% |
| C5 | 100 MFD 50V 50% |
| C6 | 100 MFD 50V 50% |
| C7 | 100 MFD 50V 50% |
| C8 | 100 MFD 50V 50% |
| C9 | 100 MFD 50V 50% |
| C10 | 100 MFD 50V 50% |
| C11 | 100 MFD 50V 50% |
| C12 | 100 MFD 50V 50% |
| C13 | 100 MFD 50V 50% |
| C14 | 100 MFD 50V 50% |
| L1 | ANTENNA COIL LOOP |
| L2 | OSCILLATOR COIL |
| T1, T2 | 1ST. & 2ND. I.F. TRANSFORMER |
| T3 | OUTPUT TRANSFORMER |



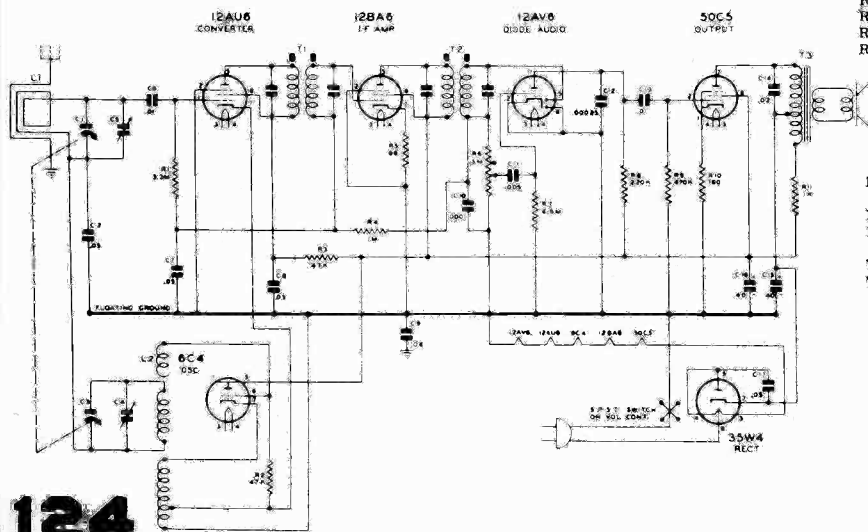
Sonora Radio & Television Corp.

Models 314 and 315

ALIGNMENT PROCEDURE

| STEP | SET RECEIVER DIAL TO | TEST OSCILLATOR | | DUMMY ANTENNA | ADJUSTMENTS |
|------|--|-------------------------------------|---|---------------------|---|
| | | ADJUST TEST OSCILLATOR FREQUENCY TO | ATTACH OUTPUT OF TEST OSCILLATOR TO | | |
| 1 | Any point where no interfering signal is received. | EXACTLY 455 KC | High side to grid of 12AU6 Tube. Low side to common negative. | .05 MFD CONDENSER | Adjust slugs at top and bottom of 2nd I.F. (T2) and then each of the slugs of the 1st. I.F. for maximum output. |
| 2 | Exactly 1620 KC | Exactly 1620 KC. | External Antenna blue lead on loop. | 100 MMFD Condenser. | Adjust 1620 KC oscillator trimmer (C4) for maximum output. |
| 3 | Approx. 1400 KC | Approx. 1400 KC | External Antenna blue lead on loop. | 100 MMFD Condenser. | Adjust 1400 KC antenna trimmer for maximum output. |

- C2, C7, C8 N-1345 Condenser, Paper .05 MFD. 200 V
- C6, C13 N-1344 Condenser, Paper .01 MFD. 400 V
- C9 N-8092 Condenser, Paper .08 MFD. 400 V
- C10 N-6015 Condenser, Ceramic 100 MMFD. 500 V. 20%
- C11 N-4894 Condenser, Paper .005 MFD. 600V
- C12 N-6488 Condenser, Ceramic 250 MMFD. 500 V. 20%
- C14 N-1376 Condenser, Paper .02 MFD. 400 V
- C15 N-5051 Condenser, Dry Electrolytic (40 MFD. 150 V.)
- C16 N-5051 Condenser, Dry Electrolytic (40 MFD. 150 V.)
- C17 N-1346 Condenser, Paper .05 MFD. 400 V.
- R1 N-4062 Resistor, Carbon 3.3 Megohm 1/2W. 20%
- R2, R3 N-4063 Resistor, Carbon 47,000 Ohm 1/2W. 20%
- R4 N-1262 Resistor, Carbon 1.0 Megohm 1/2W. 20%
- R5 N-6485 Resistor, Carbon 68 Ohm 1/2W. 10%
- R6 N-7984 Volume Control 500,000 Ohm with Switch
- R7 N-4028 Resistor, Carbon 6.8 Megohm 1/2W. 20%
- R8 N-4026 Resistor, Carbon 220,000 Ohm 1/2W. 20%
- R9 N-4027 Resistor, Carbon 470,000 Ohm 1/2W. 20%
- R10 N-4067 Resistor, Carbon 180 Ohm 1/2W. 10%



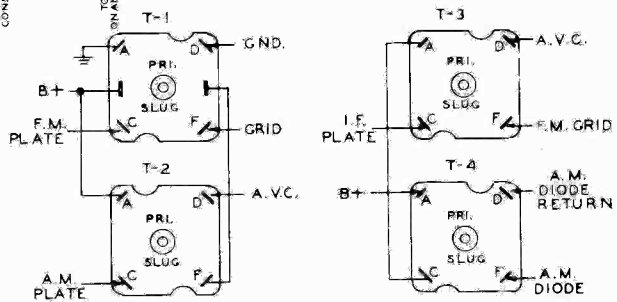
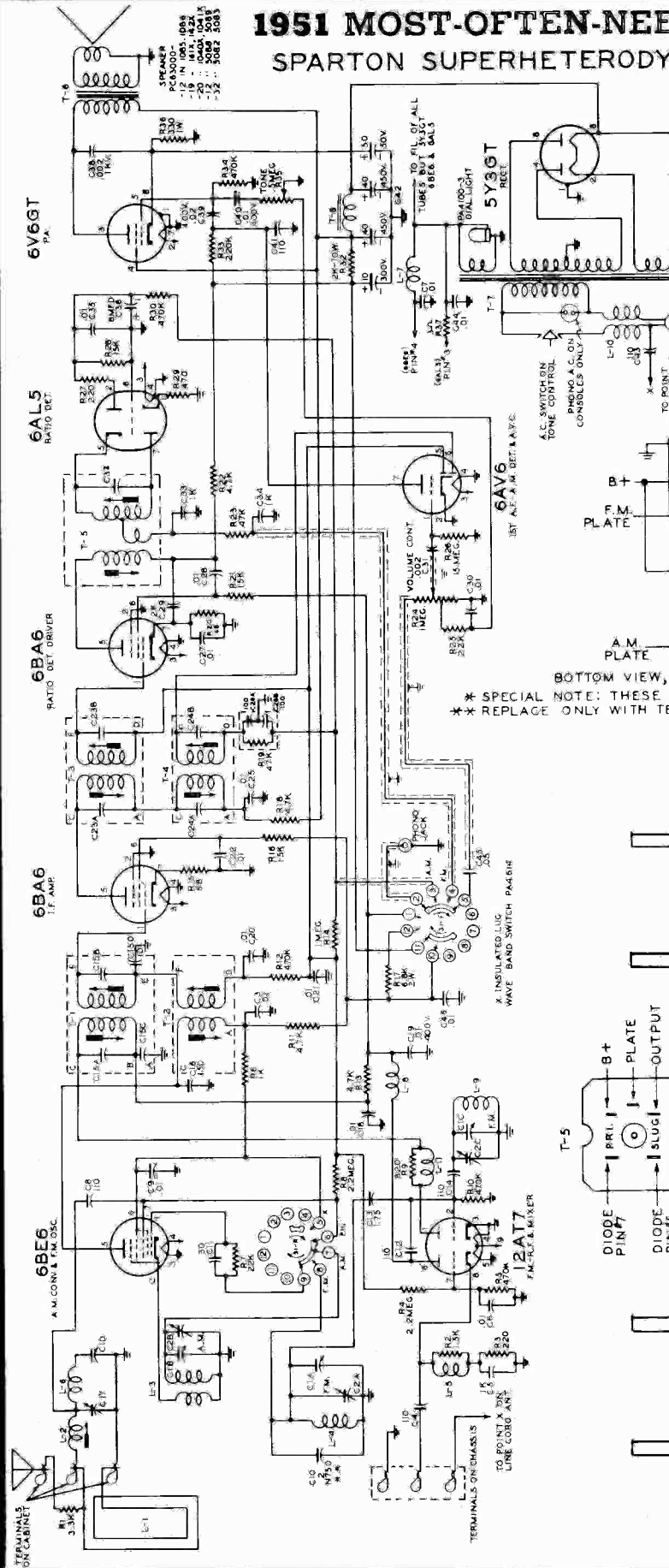
- R11 N-3341 Resistor, Carbon 1,000 Ohm 1/2W. 10%
- L1 N-8002 Coll, Loop Antenna and Cabinet Back
- L2 N-7982 Coll, Oscillator
- T1, T2 N-7981 Coll, 1st. and 2nd. I.F. Transformer
- T3 N-8001 Transformer, Output
- N-7981 Speaker, 5 Inch P.M.
- N-8045 Assembly, Variable Gang Condenser & Pulley
- N-8005 Screen, Flocked Dial
- N-8004 Knobs, Walnut Plastic) For Model No.
- #315 Cabinet, Walnut Plastic) 607-315 Only
- N-8003 Knobs, Ivory Plastic) For Model No.
- #314 Cabinet, Ivory Plastic) 607-314 Only
- N-7994 Pointer, Dial Indicator
- N-1090 Line Cord, 6 Foot Rubber
- N-8007

1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

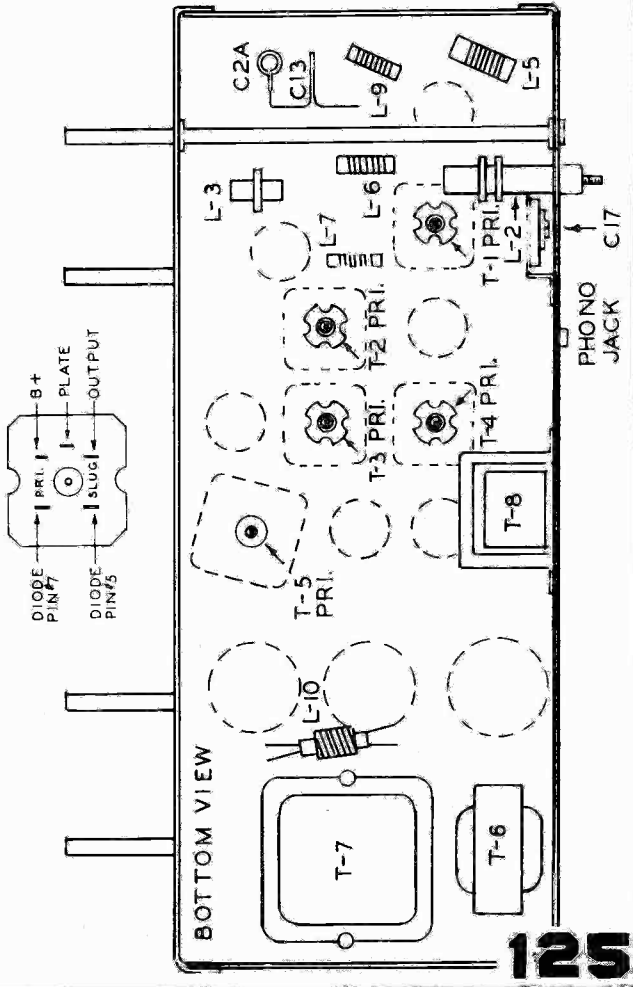
SPARTON SUPERHETERODYNE CHASSIS TYPE 8M10

MODELS 141X, 142X
1040X, 1041X

Sparton Chassis 8W10, used in Models 141XX, 142XX, 1040XX, 1041XX, 1085, 1086, 1090, and 1091, electrically is almost identical to the chassis described on this page and on the next page (over).



BOTTOM VIEW, TERMINAL HOOKUP FOR T-1, T-2, T-3, T-4 & T-5
 * SPECIAL NOTE: THESE TRANSFORMERS SUPPLIED IN COMPLETE ASSEMBLIES
 ** REPLACE ONLY WITH TEMPERATURE COEFFICIENT AS INDICATED.

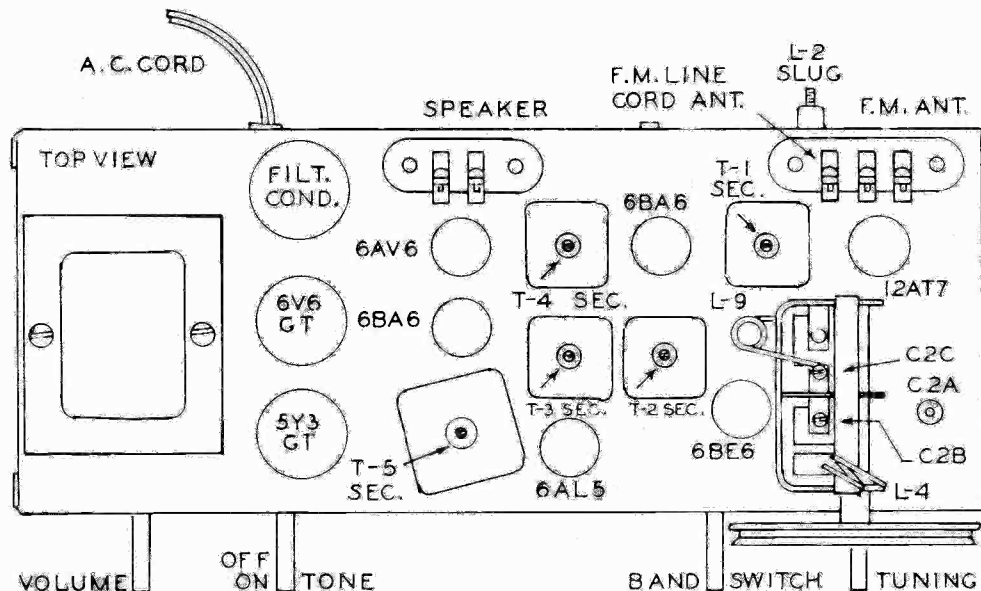


MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

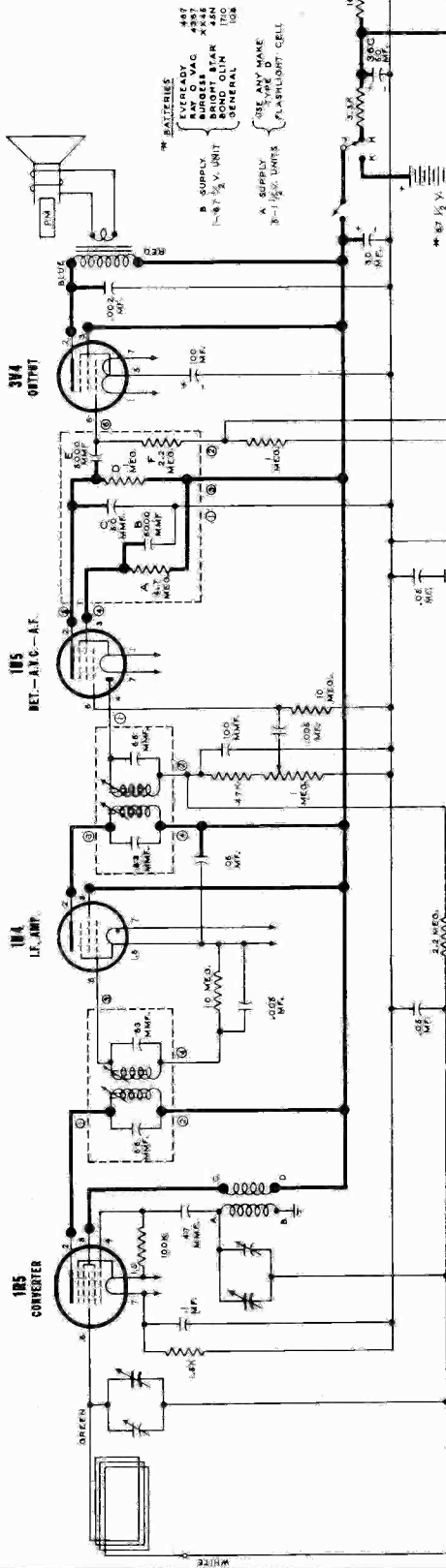
SPARTON SUPERHETERODYNE RADIO RECEIVER CHASSIS TYPE 8M10 MODELS 141X, 142X 1040X, 1041X

| OPERATION | ALIGNMENT OF | GENERATOR CONNECTED TO | DUMMY ANT. | GENERATOR FREQUENCY | BAND SWITCH SETTING | TUNING COND SETTING | TRIMMER OR SLUG | REMARKS |
|-----------|---|----------------------------|------------------------|---------------------|---------------------|---------------------|-----------------|-----------------|
| 1. | Set Dial pointer even with left-hand stop line with condenser gang closed. | | | | | | | |
| 2. | Connect output meter across speaker terminals. | | | | | | | |
| 3. | A.M.-I.F. | Pin #7 of 6BE6 Conv. Tube | .02 MFD Cond. | 456 KC. | A.M. | Open | T4 Sec. Slug | Max. Reading |
| | | | | | | | T4 Pri. Slug | Max. Reading |
| | | | | | | | T2 Sec. Slug | Max. Reading |
| | | | | | | | T2 Pri. Slug | Max. Reading |
| 4. | Repeat operation #3. | | | | | | | |
| 5. | A.M. Ant. | | | 1500 KC. | | 1500 KC. | C2B Osc. Tri. | Peak Accurately |
| 6. | A.M.-R.F. | On Cabinet | * | 1500 KC. | A.M. | 1500 KC. | C17 Ant. Tri. | Peak Accurately |
| 7. | A.M.-R.F. | On Cabinet | * | 600 KC. | A.M. | 600 KC. | L-2 Slug | Max. Reading |
| 8. | Repeat operations #5, #6 and #7. | | | | | | | |
| 9. | Check Calibrations at 600, 1000 and 1500 KC. | | | | | | | |
| 10. | SPECIAL NOTE: For complete F.M.-I.F. Visual Alignment instructions please refer to pages 9, 10, 11, 12, 13 and 14 of Bulletin 11, Manual 6. | | | | | | | |
| 11. | F.M.-I.F. Alignment using an A.M. Generator and Output Meter. | | | | | | | |
| 12. | T5 F.M. Ratio Det. | Pin #1 of 2nd 6BA6 Tube | .02 MFD. Cond. | 10.7 MC. | F.M. | Open | T5 Sec. Slug | Max. Reading |
| | | | | | | | T5 Pri. Slug | Max. Reading |
| 13. | NOTE: Operations 11, 12, 14, 15, 18 and 19 must be made with generator output as low as possible, consistent with usable output meter reading. | | | | | | | |
| 14. | T3 2nd. F.M.-I.F. | Pin #1 1st 6BA6 Tube | .02 MFD. COND. | 10.7 MC. | F.M. | Open | T3 Sec. Slug | Max. Reading |
| | | | | | | | T3 Pri. Slug | Max. Reading |
| 15. | T1 1st F.M.-I.F. | Pin #8 on 12AT7 Mixer Tube | .02 MFD. COND. | 10.7 MC. | F.M. | Open | T1 Sec. Slug | Max. Reading |
| | | | | | | | T1 Pri. Slug | Max. Reading |
| 16. | Adjust secondary slug on T5 ratio detector transformer to minimum deflection or dip on output meter. Under certain conditions it is possible to adjust T5 sec. slug to minimum noise with the receiver tuned to a weak station. This operation is very critical and the receiver must be tuned to the center response only. | | | | | | | |
| 17. | F.M.-R.F. alignment using an A.M. Generator with frequencies of 88 to 108 MC. and a vacuum tube voltmeter or D. C. voltmeter. (20,000 Ohms per volt). | | | | | | | |
| 18. | Place meter across C36 elect. condenser. (Meter reading approximately 1 volt) | | | | | | | |
| 19. | F.M.-R.F. | F.M. Ant. | Match Gen. To 300 Ohms | 106 MC | F.M. | 106 MC. | C2A Osc. Tri. | Max. Reading |
| | | | | | | | C2B Ant. Tri. | Peak Accurately |
| 20. | Check Calibration at 88 MC. | | | | | | | |

*Use standard dummy antenna

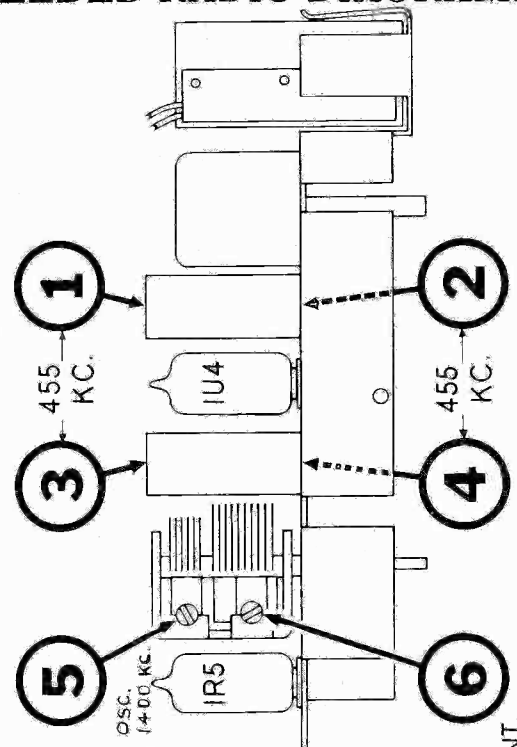
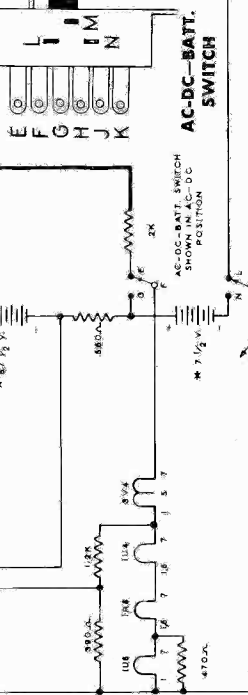


Stewart-Warner
Model 9153-A

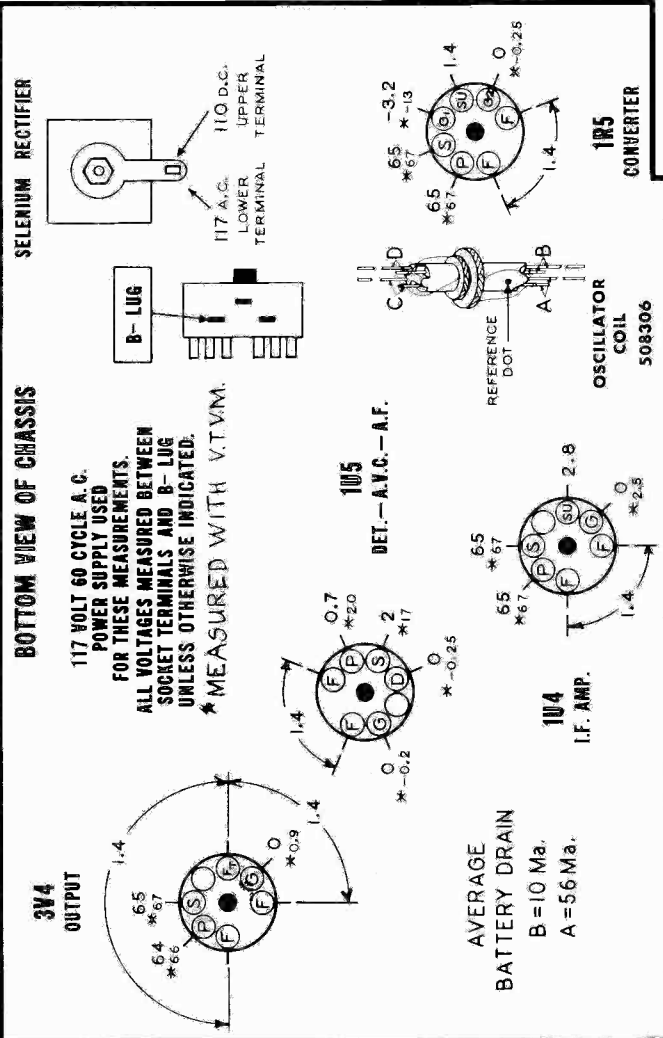


* BATTERIES
ANY TYPE
ANY VAC
BUBBLE BARK
BOND OLIN
GENERAL
10B
108

A SUPPLY
B-7 1/2" UNITS
FLASHLIGHT CELL



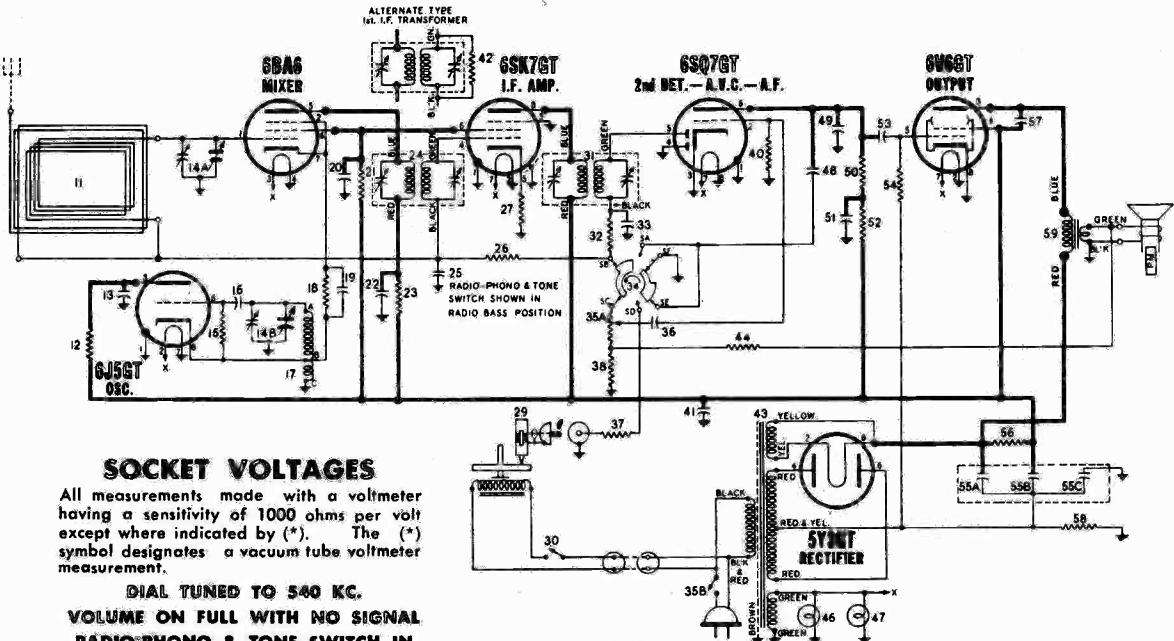
SIDE VIEW OF CHASSIS



STEWART-WARNER 9153-A

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

STEWART-WARNER MODELS 9154-C & 9154-CZ



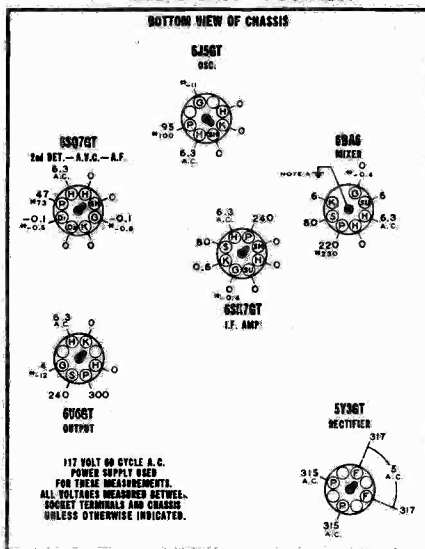
SOCKET VOLTAGES

All measurements made with a voltmeter having a sensitivity of 1000 ohms per volt except where indicated by (*). The (*) symbol designates a vacuum tube voltmeter measurement.

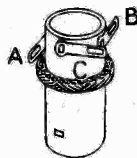
DIAL TUNED TO 540 KC.
VOLUME ON FULL WITH NO SIGNAL
RADIO-PHONO & TONE SWITCH IN "RADIO-BASS" POSITION

I.F. 455 KC.

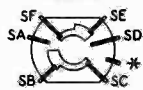
PARTS LIST



OSCILLATOR COIL 505326



RADIO-PHONO & TONE SWITCH 505317



REAR VIEW

*Not used; may serve as wiring junction point.

Lettered terminals in illustrations correspond to similarly lettered terminals on the circuit diagram.

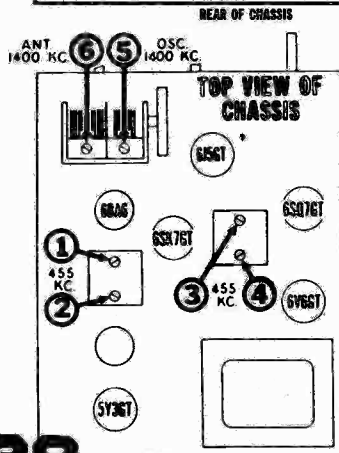
| DIA-GRAM. NO. | PART NO. | DESCRIPTION |
|-------------------|----------|---|
| CONDENSERS | | |
| 13 | 512010 | Condenser—.01 Mfd. 400 volt |
| 14, A, B, | 505315 | Condenser—variable gang (with drum) |
| 16 | 512503 | Condenser—mica 100 Mmfd. 500 volt |
| 19 | 512026 | Condenser—.05 Mfd. 200 volt |
| 20 | 512028 | Condenser—.05 Mfd. 400 volt |
| 22 | 512016 | Condenser—.02 Mfd. 400 volt |
| 25 | 512026 | Condenser—.05 Mfd. 200 volt |
| 33 | 512503 | Condenser—mica 100 Mmfd. 500 volt. |
| 36 | 512006 | Condenser—.005 Mfd. 600 volt |
| 41 | 512028 | Condenser—.05 Mfd. 400 volt |
| 48 | 512006 | Condenser—.005 Mfd. 600 volt |
| 49 | 512509 | Condenser—mica 260 Mmfd. 500 volt |
| 51 | 512034 | Condenser—.1 Mfd. 400 volt |
| 53 | 512016 | Condenser—.02 Mfd. 400 volt |
| 55-A, B, C, | 502207 | Condenser—electrolytic A—20 Mfd.—400 volt B—10 Mfd.—400 volt C—20 Mds.—25 volt |
| 57 | 512006 | Condenser—.005 Mfd. 600 volt |
| RESISTORS | | |
| 12 | 510263 | Resistor—carbon 33,000 Ohms ± 10% 1 watt |
| 15 | 510167 | Resistor—carbon 47,000 Ohms 1/2 watt |
| 18 | 510143 | Resistor—carbon 2,200 Ohms 1/2 watt |
| 21 | 510267 | Resistor—carbon 47,000 Ohms 1 watt |
| 23 | 510152 | Resistor—carbon 6,800 Ohms 1/2 watt |
| 26 | 510194 | Resistor—carbon 3.3 Meg. 1/2 watt |
| 27 | 510112 | Resistor—carbon 47 Ohms ± 10% 1/2 watt |
| 32 | 510167 | Resistor—carbon 47,000 Ohms 1/2 watt |
| 35-A, B, | 505318 | Volume Control 1 Meg. (with switch) |
| 37 | 510185 | Resistor—carbon 470,000 Ohms 1/2 watt |
| 38 | 510122 | Resistor—carbon 150 Ohms 1/2 watt |
| 40 | 510195 | Resistor—carbon 4.7 Meg. 1/2 watt |
| 42 | 510191 | Resistor—carbon 1 Meg. 1/2 watt |
| 44 | 510146 | Resistor—carbon 3,300 Ohms 1/2 watt |
| 50, 52 | 510179 | Resistor—carbon 220,000 Ohms 1/2 watt |
| 54 | 510185 | Resistor—carbon 470,000 Ohms 1/2 watt |
| 56 | 510346 | Resistor—carbon 3,300 Ohms 2 watt |
| 58 | 510707 | Resistor—wire wound 200 Ohms ± 5% 2 watt |

COILS AND TRANSFORMERS

| | | |
|----|--------|----------------------|
| 11 | 505306 | Loop antenna |
| 17 | 505326 | Coil—oscillator |
| 24 | 502657 | Transformer—1st I.F. |
| 31 | 502658 | Transformer—2nd I.F. |
| 43 | 502174 | Transformer—power |
| 59 | 505305 | Transformer—output |

OTHER ELECTRICAL PARTS

| | | |
|--------|--------|---|
| 29 | 509160 | Pick-up cartridge |
| 30 | 509205 | Switch—"OFF-ON" for type VM-509032 record changer; used on Model 9154-C. |
| | 520037 | Switch—"OFF-ON" for type GI-509522 record changer; used on Model 9154-CZ. |
| 34 | 505317 | Switch—radio-phono-tone |
| 46, 47 | 110629 | Lamp—dial (Mazda #44) 6.3 v. 0.25 A |

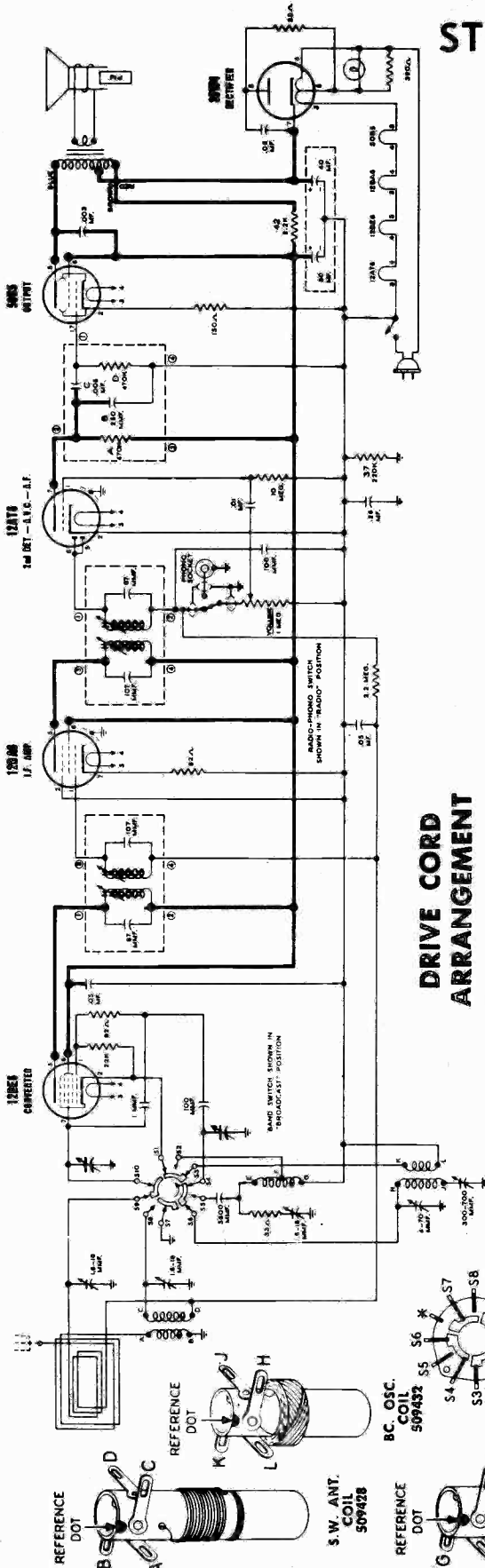


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TRIMMER LOCATIONS

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

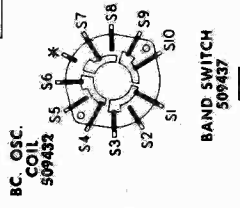
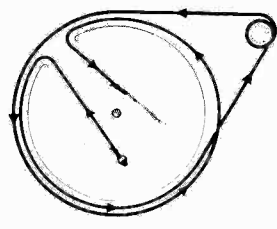
STEWART-WARNER MODEL 9156-A



DRIVE CORD ARRANGEMENT

To string dial cord, turn the main drive drum to maximum counter-clockwise position and use following parts:

- 114955 Clip on end of cord
- 502773 Card (3 1/2 feet)
- 119087 Ring
- 161384 Tension Spring

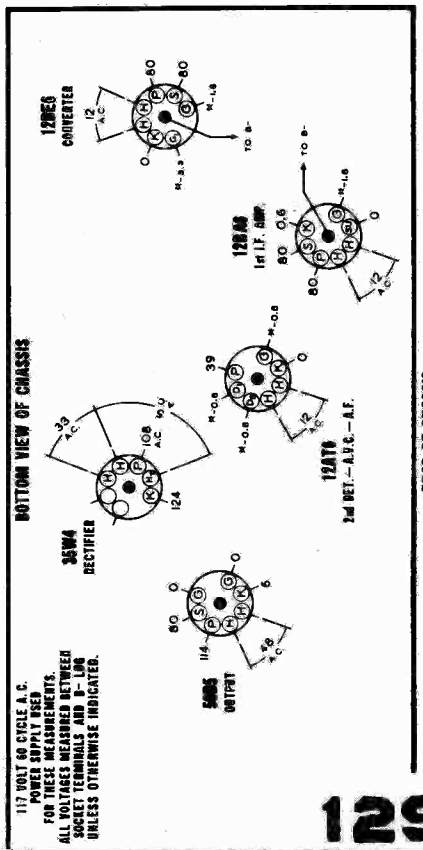


BAND SWITCH
509437

REAR VIEW

*Not used; may serve as wiring junction point.

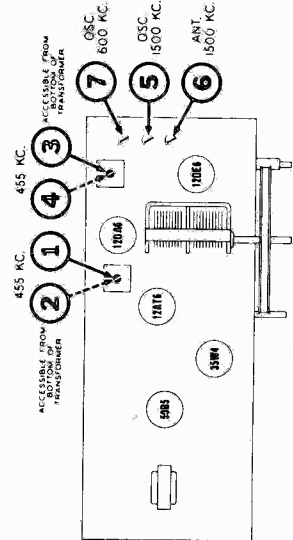
Lettered terminals in illustrations correspond to similarly lettered terminals on the circuit diagram.



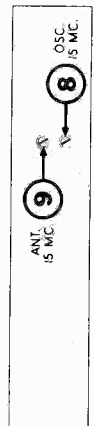
BOTTOM VIEW OF CHASSIS

117 VOLT 60 CYCLE A.C. POWER SUPPLY USED FOR THESE MEASUREMENTS. ALL VOLTAGES MEASURED BETWEEN SOCKET TERMINALS AND B-100 UNLESS OTHERWISE INDICATED.

REAR OF CHASSIS



TOP VIEW OF CHASSIS



FRONT VIEW OF CHASSIS

I.F.
455 KC.

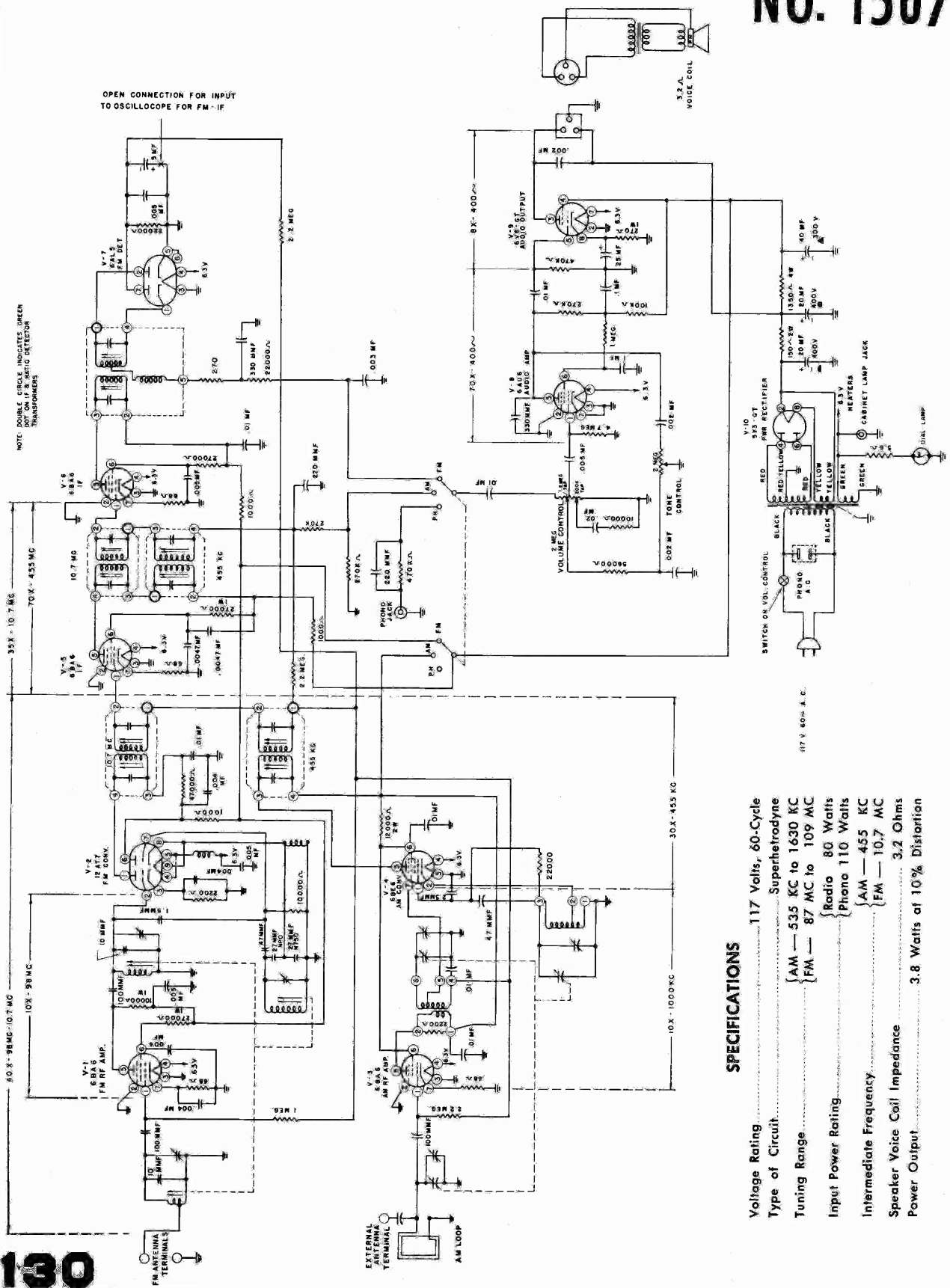
SOCKET VOLTAGES

Measured with voltmeter having sensitivity of 20,000 ohms per volt except where indicated by (*). The (*) symbol designates a vacuum tube voltmeter measurement.

BAND SWITCH SET TO "SW" POSITION
DIAL TUNED TO MAXIMUM COUNTER-CLOCKWISE POSITION

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

STROMBERG - CARLSON RADIO NO. 1507



SPECIFICATIONS

- Voltage Rating 117 Volts, 60-Cycle
- Type of Circuit Superhetrodyne
- Tuning Range {AM — 535 KC to 1630 KC
 }FM — 87 MC to 109 MC
- Input Power Rating Radio 80 Watts
 }Phone 110 Watts
 }AM — 455 KC
 }FM — 10.7 MC
- Intermediate Frequency 455 KC
- Speaker Voice Coil Impedance 3.2 Ohms
- Power Output 3.8 Watts at 10% Distortion

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

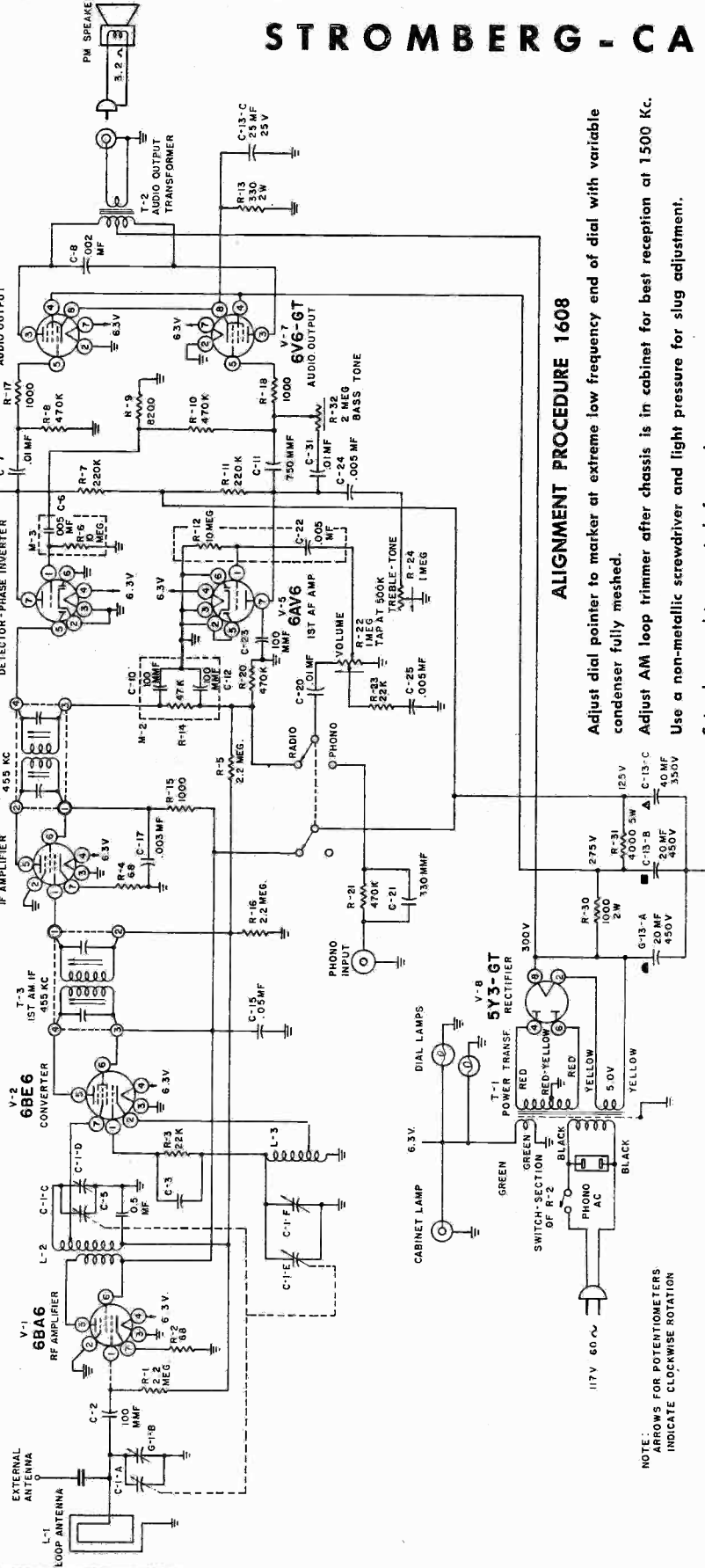
STROMBERG - CARLSON

RADIO RECEIVER

NO. 1608

See next page, over, for additional service material.

No. 1608 SCHEMATIC DIAGRAM



ALIGNMENT PROCEDURE 1608

Adjust dial pointer to marker at extreme low frequency end of dial with variable condenser fully meshed.
 Adjust AM loop trimmer after chassis is in cabinet for best reception at 1500 Kc.
 Use a non-metallic screwdriver and light pressure for slug adjustment.

Set volume and tone controls for maximum.

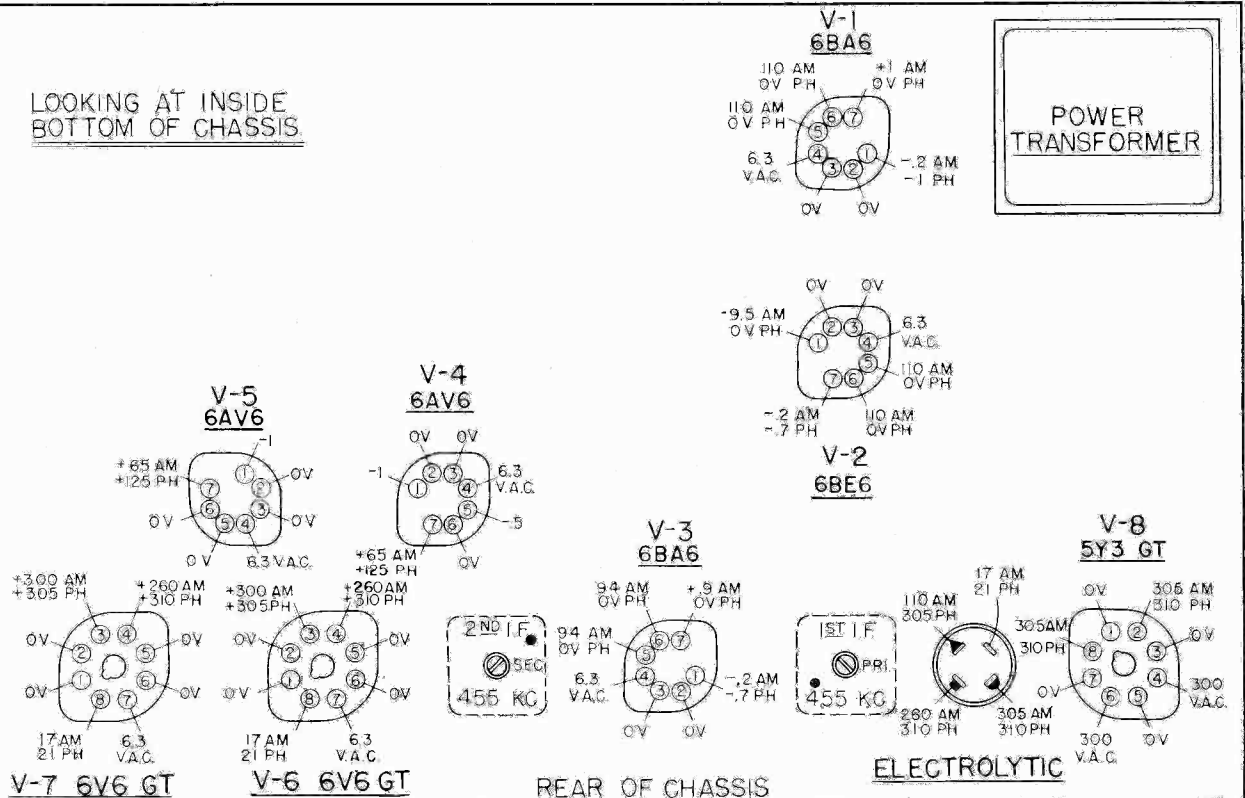
| Pointer | Signal Generator | VTVM Connection | Adjustment and Notes |
|--------------------------------|---|--------------------|--|
| 1. Pointer at 1000 Kc. approx. | 455 Kc.-400 cy. modulation to grid of converter (pin 7 of V-2, 6BE6). | Terminal 2 of T-3. | Adjust top and bottom slugs of T-3 and T-4 for maximum output on VTVM. |
| 2. Pointer at 1400 Kc. | 1400 Kc.-400 cy. modulation to stator terminal of C-1-A. | Same as 1. | Adjust C-1-F and C-1-D for maximum output on VTVM. |
| 3. Pointer at 1400 Kc. | 1400 Kc.-400 cy. coupled through radiating loop. | Same as 1. | Readjust C-1-F, C-1-D, and C-1-B for maximum output on VTVM. |

NOTE:
 ARROWS FOR POTENTIOMETERS
 INDICATE CLOCKWISE ROTATION

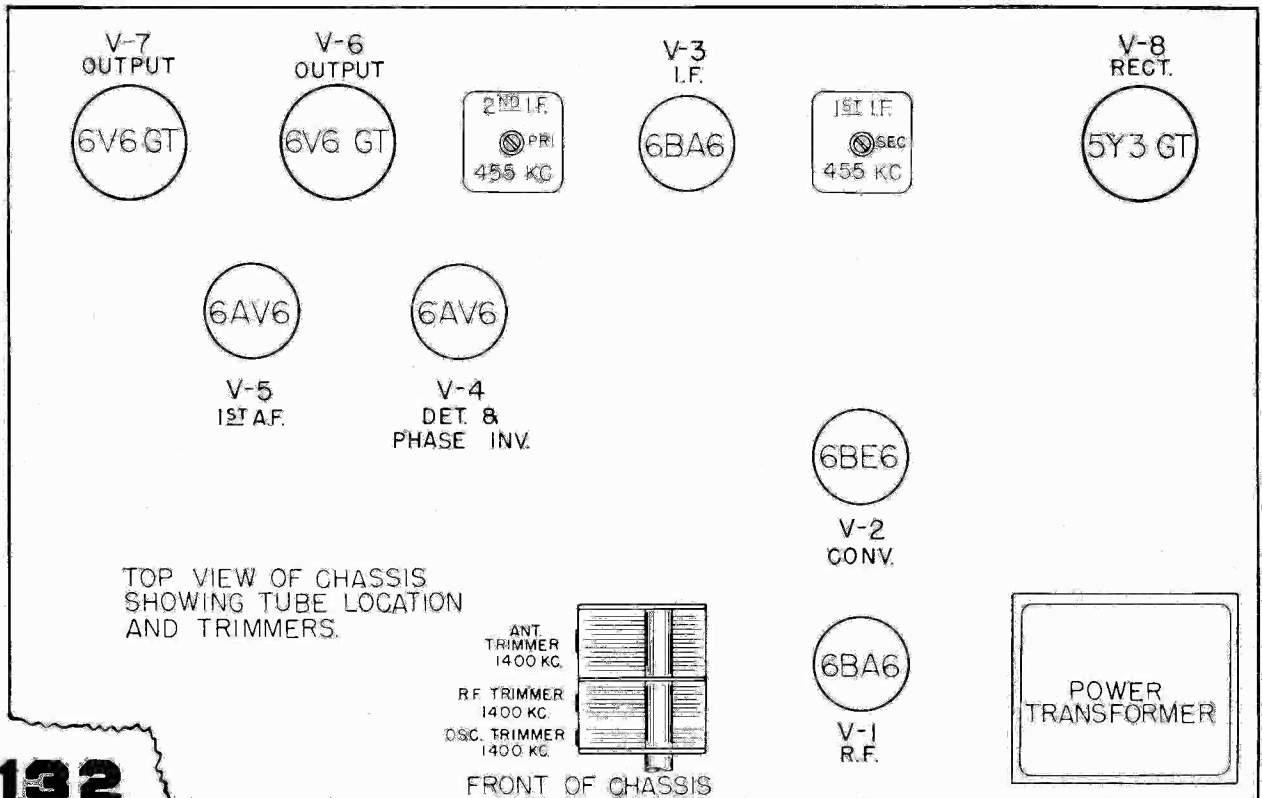
MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

STROMBERG - CARLSON RADIO NO. 1608

LOOKING AT INSIDE
BOTTOM OF CHASSIS



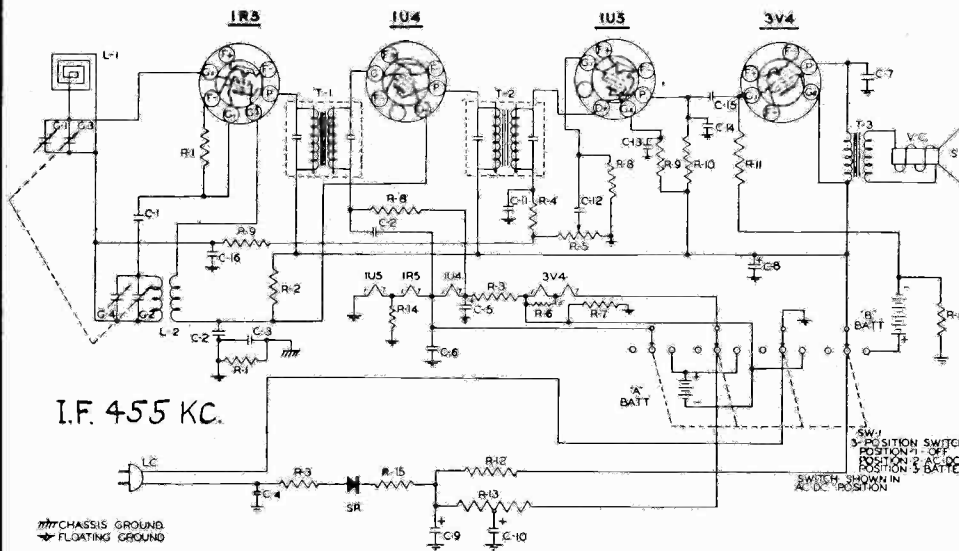
VOLTAGES MEASURED TO CHASSIS GROUND WITH VTVM TYPE METER.
DOTS ON I.F. TRANSFORMERS INDICATE THE POSITION OF COLOR CODED TERMINAL.



MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

TRAV-LER RADIO CORP.

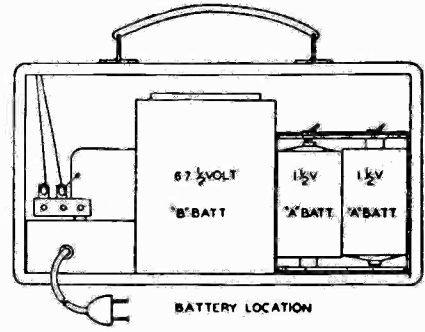
MODEL 5022



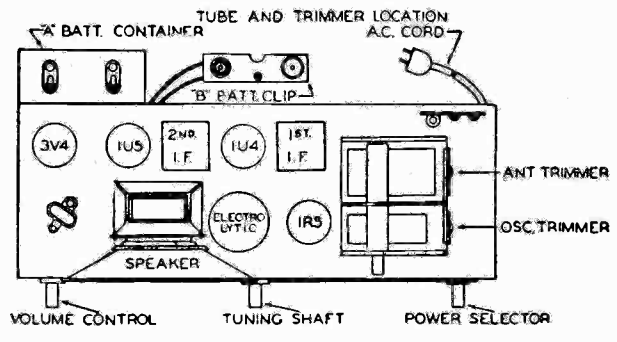
| PART NO. | DESCRIPTION |
|----------|---|
| 1R-20 | 220M RESISTOR 1/2W 20% |
| 1R-21 | 33M RESISTOR 1/2W 20% |
| 1R-22 | 33M RESISTOR 1/2W 20% |
| 1R-23 | 33M RESISTOR 1/2W 20% |
| 1R-24 | 82M RESISTOR 1/2W 20% |
| 1R-25 | 1MEG VOLUME CONTROL |
| 1R-26 | 270M RESISTOR 1/2W 10% |
| 1R-27 | 620M RESISTOR 1/2W 5% |
| 1R-28 | 3.3MEG RESISTOR 1/2W 20% |
| 1R-29 | 3.3MEG RESISTOR 1/2W 20% |
| 1R-30 | 150M RESISTOR 1/2W 20% |
| 1R-31 | 470M RESISTOR 1/2W 20% |
| 1R-32 | 150M RESISTOR 1W 20% |
| 1R-33 | 100K OHM BANDSTOP RESISTOR SW 5 X |
| 1R-34 | 470M RESISTOR 1/2W 20% |
| 1R-35 | 47M RESISTOR 1W 10% |
| MC-2 | 100MFD MICA CONDENSER |
| MC-3 | 0.01MFD CONDENSER 400V V |
| PC-5 | 1MFD CONDENSER 400V V |
| PC-6 | 0.05MFD CONDENSER 400V V |
| PC-7 | 70MFD 10WV ELECTROLYTIC |
| PC-8 | 1MFD CONDENSER 200V V |
| PC-9 | 0.05MFD CONDENSER 600V V |
| EC-14 | 40MFD 150VWV ELECTROLYTIC |
| EC-15 | 40MFD 20MFD |
| MC-7 | 100MFD |
| MC-8 | 100MFD |
| MC-9 | 100MFD |
| MC-10 | 100MFD |
| MC-11 | 0.05MFD CONDENSER 200WV |
| MC-12 | ANT. TRIMMER |
| CC-6 | 100K OHM CONDENSER |
| LL-23 | LOOP ANTENNA |
| LD-8 | OSC. COIL |
| GO-2 | SELENIUM RECTIFIER |
| SW-8 | 4 POLE 3 POSITION SWITCH |
| SW-9 | 2 POSITION FLASHLIGHT CELLS 1 1/2 VOLTS |
| SW-10 | BATT. 1.5V BATTERY |
| LI-3 | T-1 INPUT IF TRANSFORMER |
| LI-4 | T-2 OUTPUT IF TRANSFORMER |
| LI-5 | T-3 SPEAKER OUTPUT TRANSFORMER |
| SEK-16 | Voice Coil |
| G-4 | 3 1/2 PM SPEAKER |
| TU-39 | OSC. TRIMMER |
| TU-40 | 1R3-U4-U5-3V4 |

I.F. 455 KC.

CHASSIS GROUND
FLOATING GROUND



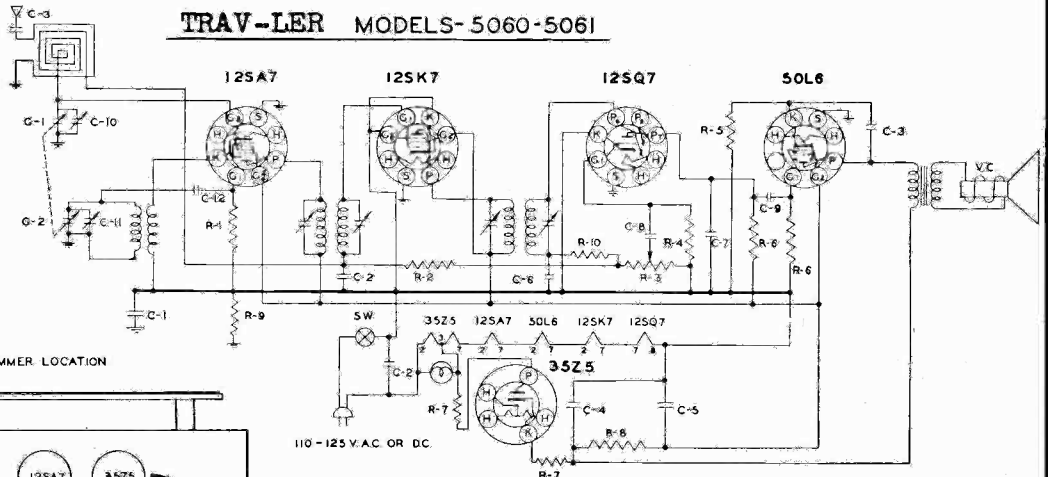
BATTERY LOCATION



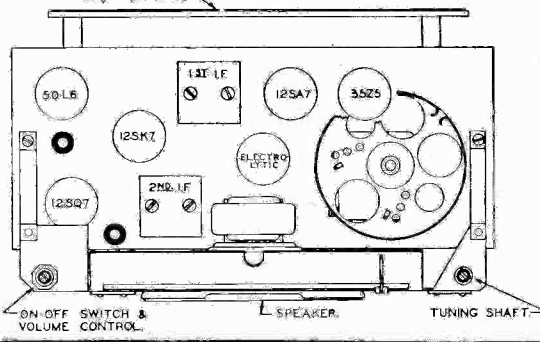
TUBE AND TRIMMER LOCATION
A.C. CORD
ANT. TRIMMER
OSC. TRIMMER
VOLUME CONTROL
TUNING SHAFT
POWER SELECTOR

TRAV-LER MODELS-5060-5061

I.F. 455 KC.



CHASSIS GROUND
TUBE AND TRIMMER LOCATION
LOOP ANTENNA



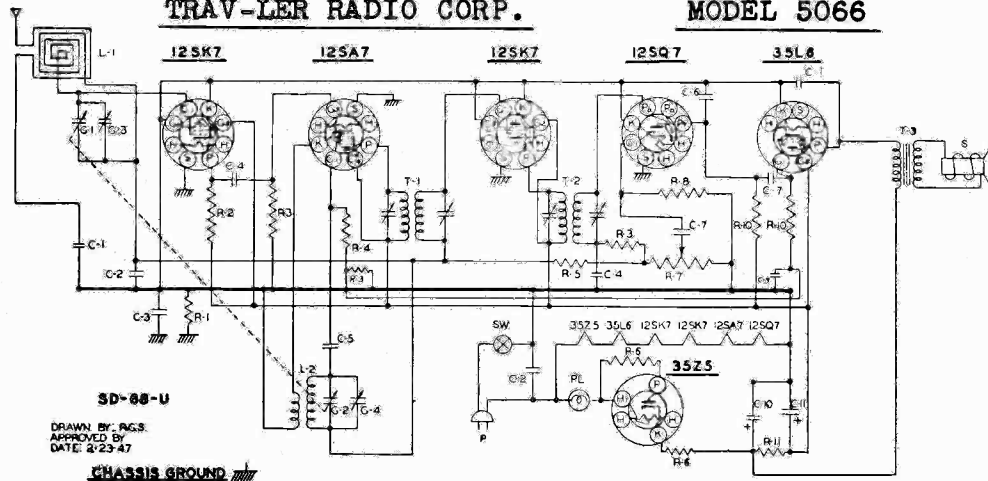
ON OFF SWITCH & VOLUME CONTROL
SPEAKER
TUNING SHAFT

| PART NO. | DESCRIPTION | PART NO. | DESCRIPTION |
|----------|-------------------------------|----------|-----------------------------|
| 1R-9 | R-1 22000 RESISTOR 1/2W 20% | EC-12 | C-4 40MFD 150V ELECTROLYTIC |
| 1R-23 | R-2 3.3MEG. RESISTOR 1/2W 20% | | C-5 20MFD |
| VC-3 | R-3 1MEG. VOLUME CONTROL | | C-6 220MFD |
| 1R-13 | R-4 2.2MEG. RESISTOR 1/2W 20% | MC-9 | C-7 220MFD |
| 1R-14 | R-5 150M RESISTOR 1/2W 20% | | C-8 100MFD |
| 1R-11 | R-6 470M RESISTOR 1/2W 20% | | C-9 100MFD |
| JR-17 | R-7 33 RESISTOR 1/2W 20% | | C-10 ANT. TRIMMER |
| JR-25 | R-8 2200 RESISTOR 1W 10% | | C-11 OSC. TRIMMER |
| 1R-20 | R-9 2200M RESISTOR 1/2W 20% | MC-4 | C-12 50MFD. MICA CONDENSER |
| 1R-10 | R-10 47000M RESISTOR 1/2W 20% | GC-6A | G-1 GANG CONDENSER |
| PC-8 | C-1 1MFD. CONDENSER 400V | | G-2 |
| PC-5 | C-2 0.5MFD CONDENSER 400V | | |
| PC-7 | C-3 0.01MFD CONDENSER 400V | | |

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

TRAV-LER RADIO CORP.

MODEL 5066



SD-88-U
DRAWN BY: R.G.S.
APPROVED BY:
DATE: 2-23-47

CHASSIS GROUND

| PART NO. | DESCRIPTION | PART NO. | DESCRIPTION | PART NO. | DESCRIPTION |
|----------|-------------------------------------|----------|---------------------------------------|----------|-----------------------------|
| PC-7 | C-1 01MFD. CONDENSER 400 V. | IR-9 | R-4 22M Ω RESISTOR 1/2W 20% | L1-6 | T-1 INPUT I.F. TRANSFORMER |
| PC-5 | C-2 .05MFD. CONDENSER 400 V. | IR-23 | R-5 3.3MEG Ω RESISTOR 1/2W 20% | L1-7 | T-2 OUTPUT I.F. TRANSFORMER |
| PC-3 | C-3 1MFD. CONDENSER 400 V. | IR-17 | R-6 33 Ω RESISTOR 1/2W 20% | SW | SW SWITCH ON VOLUME CONTROL |
| MC-2 | C-4 .0001 MICA CONDENSER | VC-13 | R-7 1MEG. VOLUME CONTROL | SPK | T-3 OUTPUT TRANSFORMER |
| MC-4 | C-5 .00005 MICA CONDENSER | IR-13 | R-8 2.2MEG Ω RESISTOR 1/2W 20% | S | 5" P.M. SPEAKER |
| MC-5 | C-6 .0005 MICA CONDENSER | IR-11 | R-10 470M Ω RESISTOR 1/2W 20% | PL | #47 PILOT BULB |
| PC-8 | C-7 .005MFD. CONDENSER 600 V. | IR-25 | R-11 2200 Ω RESISTOR 1 W 10% | CO-1 | LINE CORD |
| PC-4 | C-9 .25MFD. COND. 200 V. | GC-5 | G-1 GANG CONDENSER | | |
| EC-12 | C-10 .40MFD. ELECTROLYTIC. 150 W.V. | | C-2 ANT. TRIMMER | | |
| | C-11 .20MFD. | | C-3 OSC. TRIMMER | | |
| IR-20 | R-1 220M Ω RESISTOR 1/2W 20% | LL-15 | L-1 LOOP ANT. | | |
| IR-22 | R-2 3000 Ω RESISTOR 1/2W 10% | LD-10 | L-2 OSC. COIL | | |
| IR-10 | R-3 47M Ω RESISTOR 1/2W 20% | | | | |

ALIGNMENT

Remove chassis from cabinet for alignment.

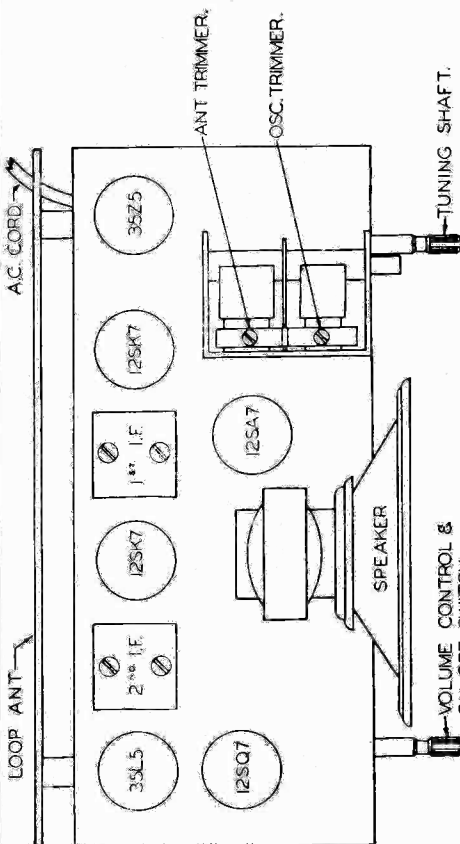
A Signal Generator is required having the following frequencies: 455 KC, 1400 KC, 1720 KC. An output meter should be connected across the speaker.

The receiver volume control should be turned to maximum during the I.F. and all subsequent alignments to keep the AVC from working and giving false readings. Keep the generator output as low as possible to prevent overloading.

FIRST STEP: Connect the hot lead from the generator to the ANT. section of the gang condenser, through a .1 MFD condenser. The ground lead from the generator must be connected to the floating ground buss under the chassis. Turn the gang condenser to complete minimum capacity. Adjust the generator to 455KC and adjust the trimmers of the 1st and 2nd I.F. transformers until a maximum reading is noted on the output meter.

SECOND STEP: With the leads from the generator still connected in the same manner, adjust the Signal Generator to 1720 KC. The OSC. trimmer is located on the front of the chassis. Adjust this trimmer until the 1720 KC signal is tuned in.

THIRD STEP: Remove the hot lead of the generator from the ANT section of the gang condenser. Connect this lead to the primary of the loop antenna through a 200 MMFD condenser. Adjust the Signal Generator to 1400 KC. Rotate the tuning control until this signal is tuned in. The ANT trimmer is located on the back of the loop antenna. Adjust this trimmer until a maximum reading is noted on the output meter. No further adjustment should be necessary, unless the set has been damaged, as the coils and condenser in this receiver have been specially handled at the factory to insure proper alignment at the lower frequencies.



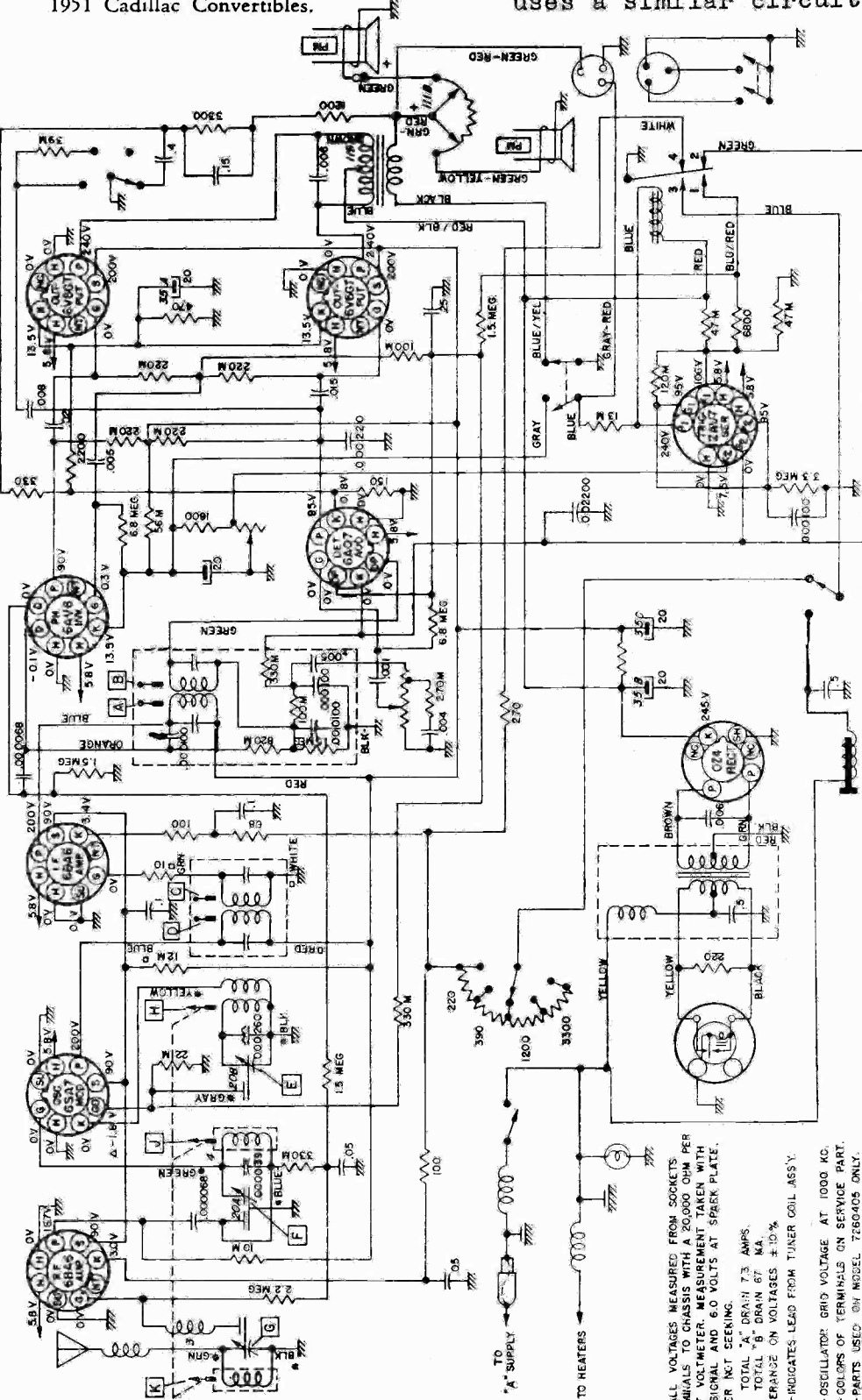
MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

UNITED MOTORS

Cadillac 7260405
7260905

MOUNTING—Model 7260405 - All 1951 Cadillac Sedans. Model 7260905 - All 1951 Cadillac Convertibles.

Packard Model 416394 uses a similar circuit.



Output Meter VTVM From [2] To Chassis
Generator Return Receiver Chassis
Dummy Antenna In Series With Generator
Volume Control Maximum Volume
Sensitivity Control Maximum Sensitivity
Tone Control Treble
Generator Output Not To Exceed 2 Volts

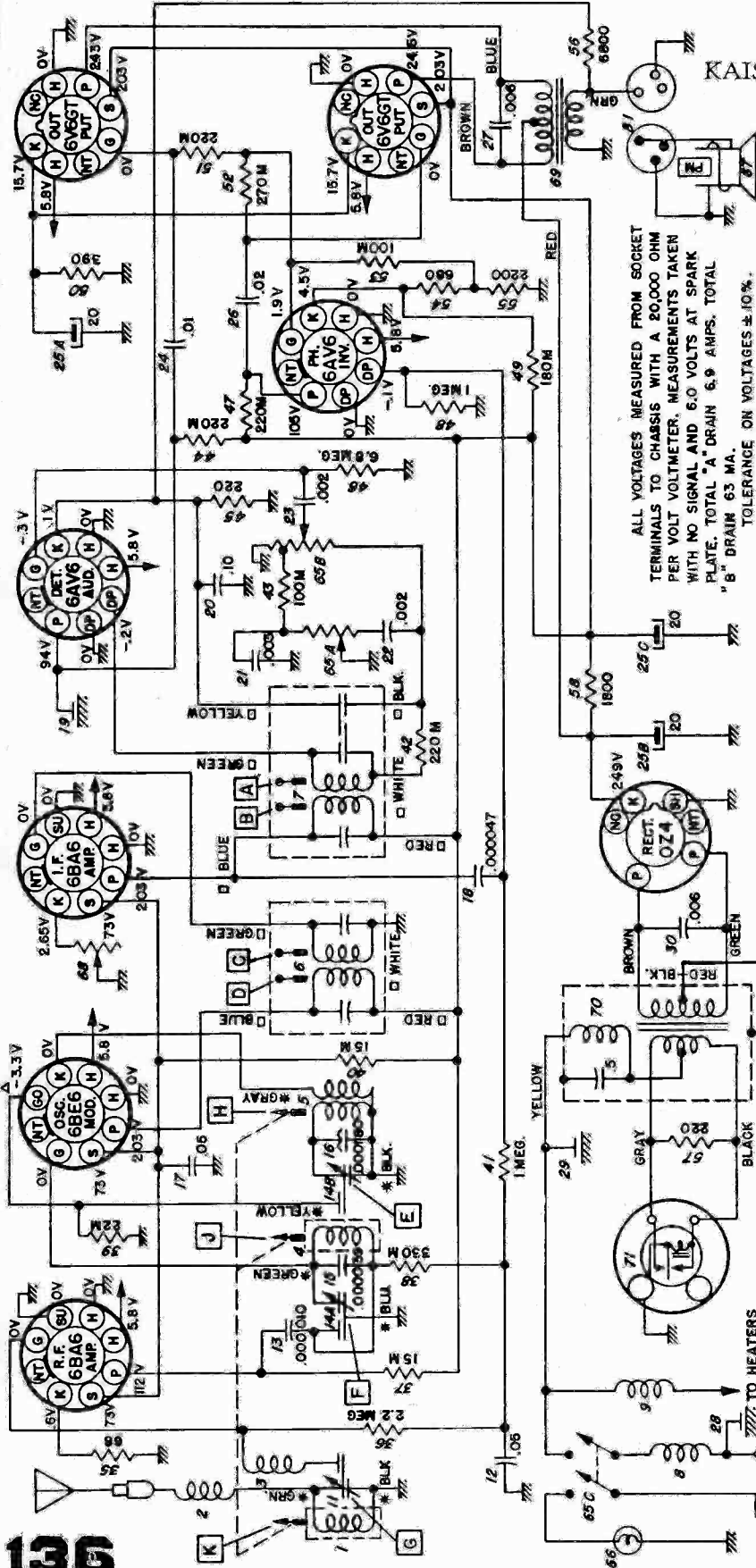
| Step | Dummy Antenna | Connect To | Signal Generator Frequency | Tune Receiver To | Adjust in Sequence for Max. Output |
|------|---------------|-------------------|----------------------------|----------------------|------------------------------------|
| 1 | 0.1 mfd | 6SA7 Grid (Pin 8) | 260 KC | *High Frequency Stop | A, B, C, D |
| 2 | 0.000068 mfd | Antenna Connector | 1615 KC | High Frequency Stop | E, F, G |
| 3 | 0.000068 mfd | Antenna Connector | 600 KC | Signal Gen. Signal | J, K |
| 4 | 0.000068 mfd | Antenna Connector | 1615 KC | Signal Gen. Signal | F, G |
| 5 | 0.000068 mfd | Antenna Connector | 1000 KC | Signal Gen. Signal | L |

ALL VOLTAGES MEASURED FROM SOCKETS TERMINALS TO CHASSIS WITH A 20,000 OHM PER VOLT VOLTMETER. MEASUREMENT TAKEN WITH NO SIGNAL AND 60 VOLTS AT SPEAKER PLATE. TUNER NOT SEEKING.
TOTAL "A" DRAIN 7.3 AMPS.
TOTAL "B" DRAIN 67 MA.
TOLERANCE ON VOLTAGES ±10%
* - INDICATES LEAD FROM TUNER COIL ASSY.
Δ - OSCILLATOR GRID VOLTAGE AT 1000 KC.
□ - COLORS OF TERMINALS ON SERVICE PART.
+ - PARTS USED ON MODEL 7260405 ONLY.

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

UNITED MOTORS

KAISER-FRAZER PART NO. 100170

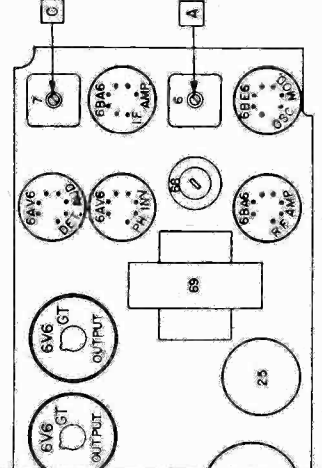
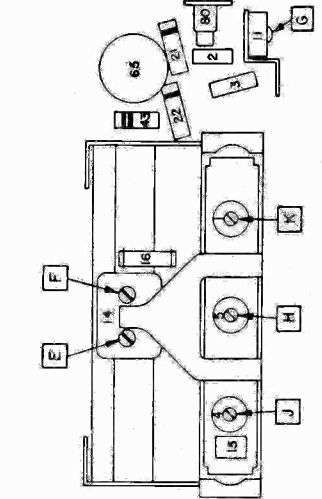
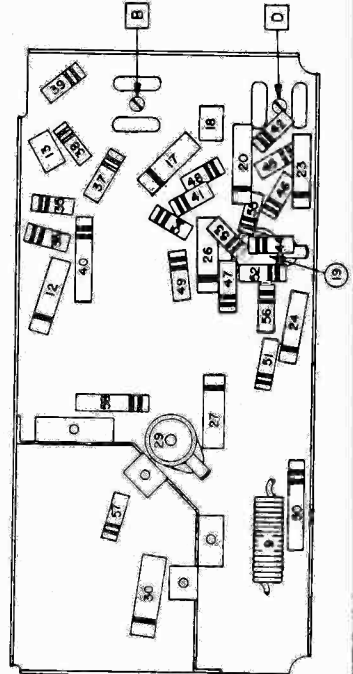


ALL VOLTAGES MEASURED FROM SOCKET TERMINALS TO CHASSIS WITH A 20,000 OHM PER VOLT VOLTMETER. MEASUREMENTS TAKEN WITH NO SIGNAL AND 6.0 VOLTS AT SPARK PLATE. TOTAL "A" DRAIN 6.9 AMPS. TOTAL "B" DRAIN 63 MA.
TOLERANCE ON VOLTAGES ±10%.

* - INDICATES LEAD FROM TUNER COIL ASSY.
Δ - OSCILLATOR GRID VOLTAGE AT 1000 KC.
□ - COLORS OF TERMINALS ON SERVICE PART.

IF 260 KC.

Kaiser-Frazer 100170

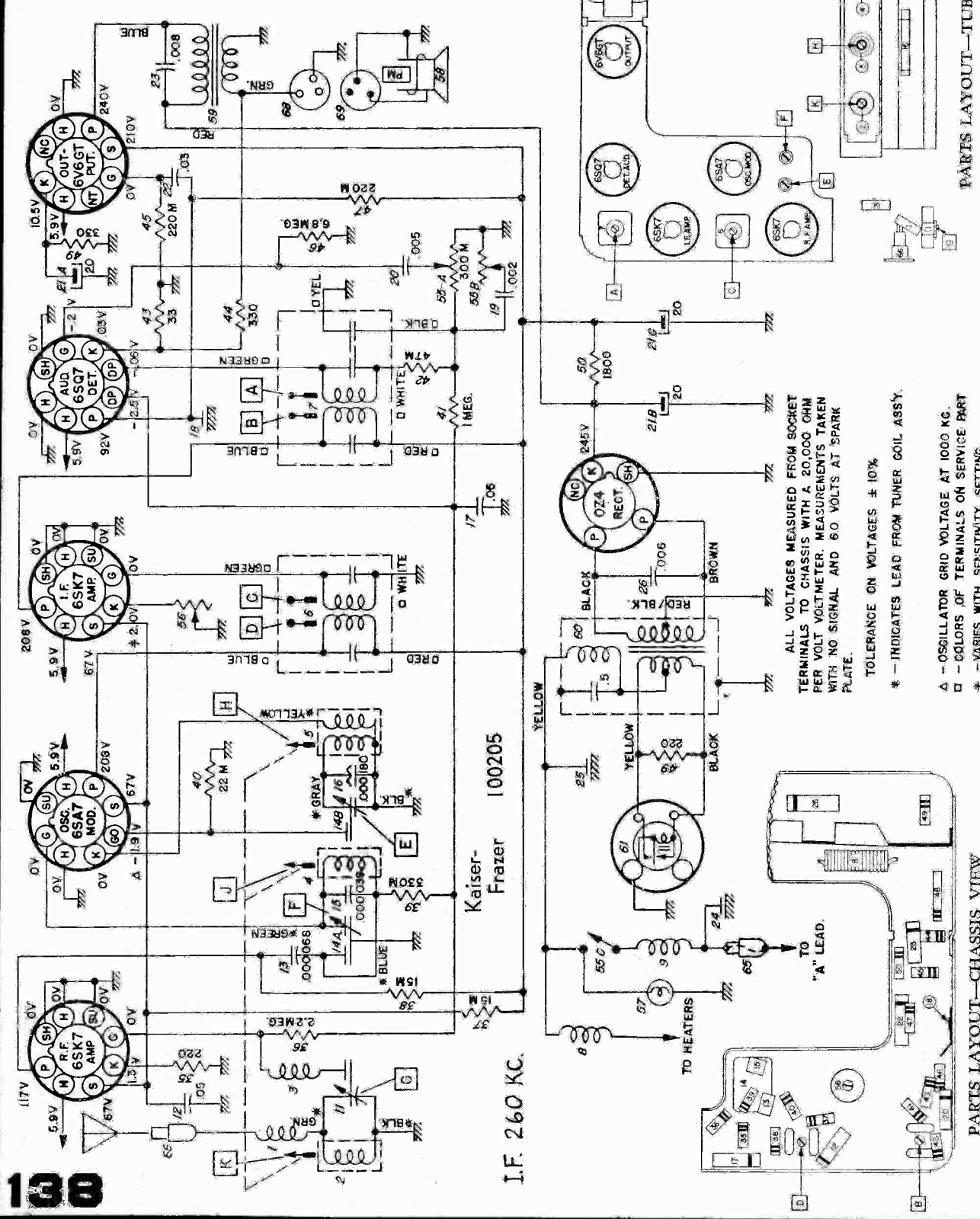


MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

UNITED MOTORS

KAISER-FRAZER PART NO. 100205

All 1951 Henry J cars.



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ALL VOLTAGES MEASURED FROM SOCKET TERMINALS TO CHASSIS WITH A 20,000 OHM PER VOLT VOLTMETER. MEASUREMENTS TAKEN WITH NO SIGNAL AND 60 VOLTS AT SPARK PLATE.

- * - INDICATES LEAD FROM TUNER COIL ASSY.
- Δ - OSCILLATOR GRID VOLTAGE AT 1000 KC.
- - COLORS OF TERMINALS ON SERVICE PART
- † - VARIES WITH SENSITIVITY SETTING.

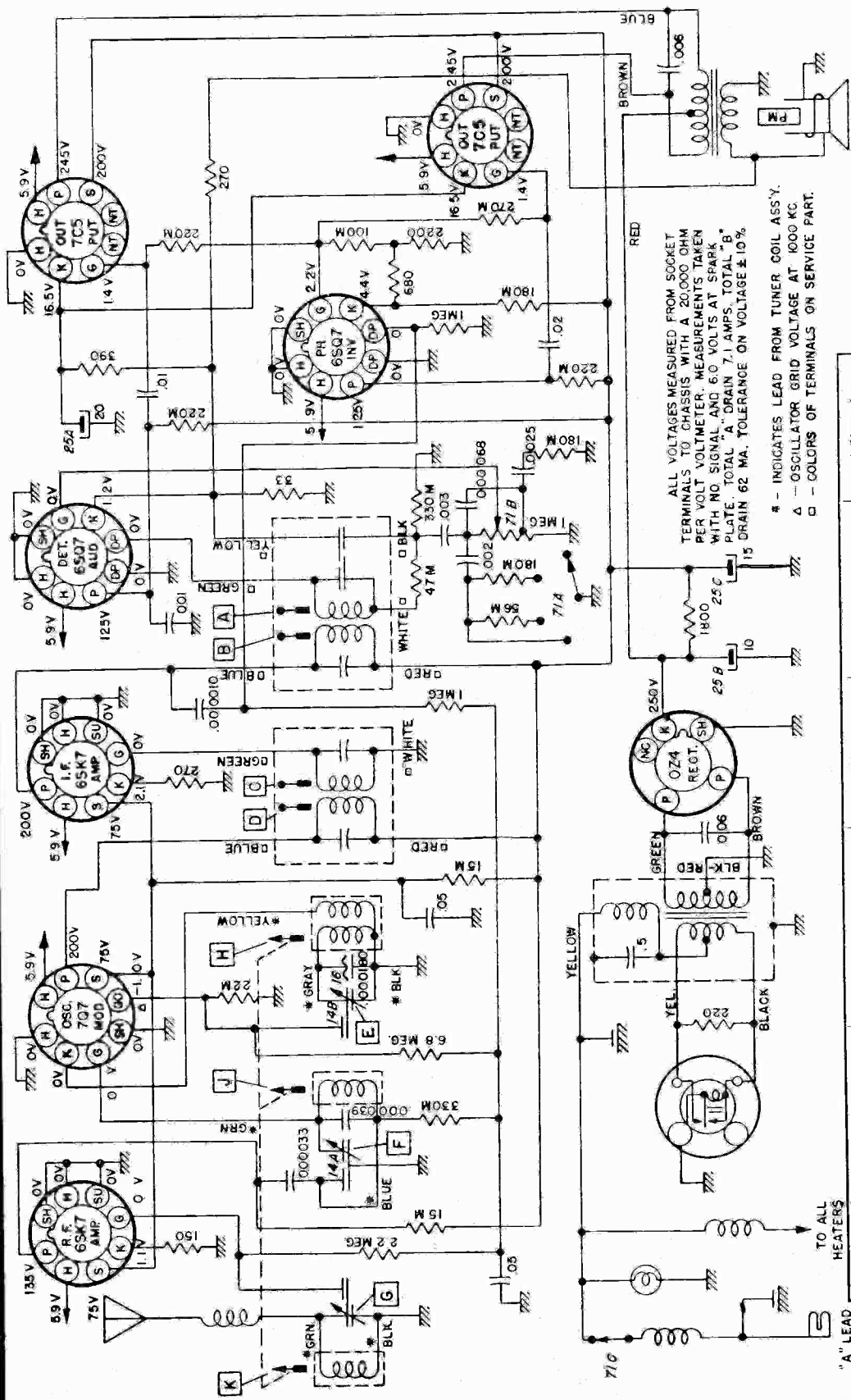
PARTS LAYOUT—TUBE VIEW

PARTS LAYOUT—CHASSIS VIEW

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

UNITED MOTORS

PONTIAC CHIEFTAIN MODEL 984592



Pontiac Model 984592.
In some sets type 6SA7 tube was used instead of 7C5; and 6V6GT instead of 7C5, with corresponding minor circuit changes.

ALL VOLTAGES MEASURED FROM SOCKET TERMINALS TO CHASSIS WITH A 20,000 OHM PER VOLT VOLTMETER. MEASUREMENTS TAKEN WITH NO SIGNAL AND 60 VOLTS AT SPARK PLATE. TOTAL "A" DRAIN 7.1 AMPS. TOTAL "B" PLATE TOTAL 62 MA. TOLERANCE ON VOLTAGE ± 10%.

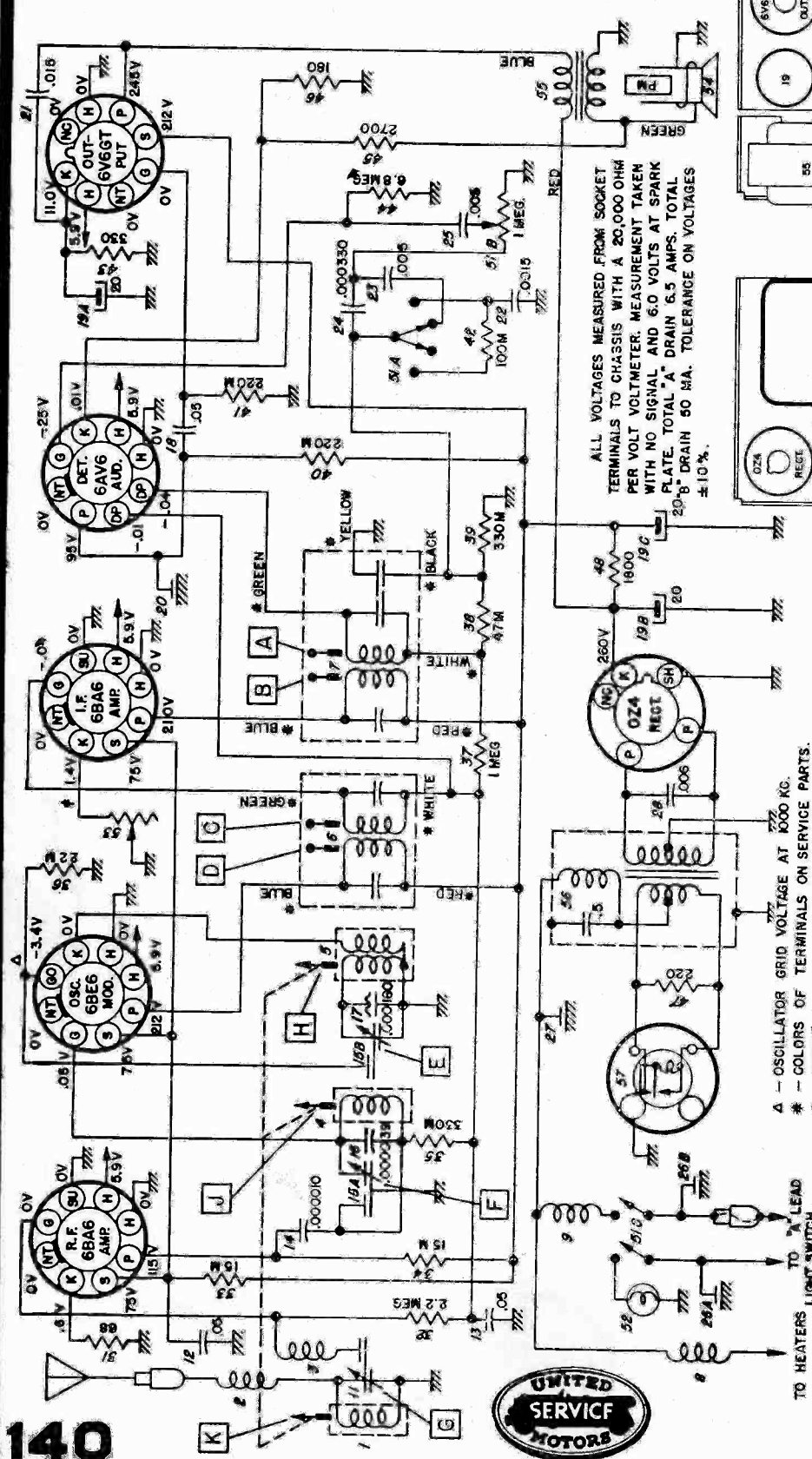
* - INDICATES LEAD FROM TUNER COIL ASSY.
△ - OSCILLATOR GRID VOLTAGE AT 1000 KC
□ - COLORS OF TERMINALS ON SERVICE PART.

| Steps | Series Condenser or Dummy Antenna | Connect to | Signal Generator Frequency | Tune Receiver To | Adjust in Sequence for Max. Output |
|-------|-----------------------------------|---|----------------------------|--------------------|------------------------------------|
| 1 | 0.1 Mfd. | 6SA7 Grid (Pin #8) or 7C5 Grid (Pin #6) | 260 KC | High Freq. Stop | A, B, C, D |
| 2 | 0.000068 Mfd. | Antenna Connector | 1615 KC | High Freq. Stop | E, F, G |
| 3 | 0.000068 Mfd. | Antenna Connector | 1000 KC | Signal Gen. Signal | J, K |
| 4 | 0.000068 Mfd. | Antenna Connector | 1615 KC | High Freq. Stop | F, G |
| 5 | 0.000068 Mfd. | Antenna Connector | 1100 KC | Signal Gen. Signal | L |

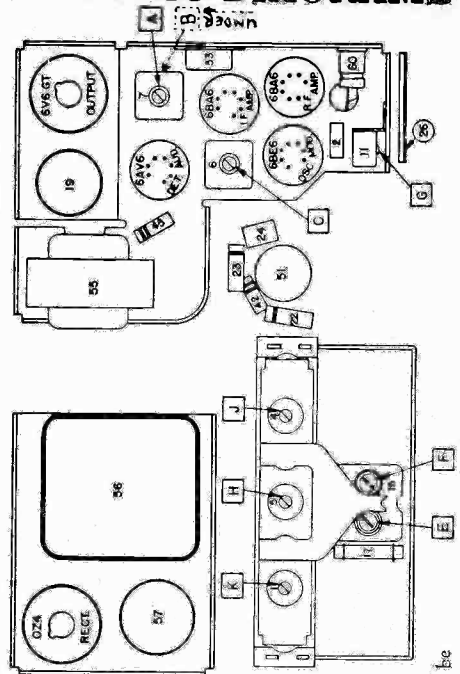
MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

UNITED MOTORS

Chevrolet 986515



ALL VOLTAGES MEASURED FROM SOCKET TERMINALS TO CHASSIS WITH A 20,000 OHM PER VOLT VOLTMETER. MEASUREMENT TAKEN WITH NO SIGNAL AND 6.0 VOLTS AT SPARK PLATE. TOTAL "A" DRAIN 6.5 AMPS. TOTAL "B" DRAIN 50 MA. TOLERANCE ON VOLTAGES ±10%.



| Steps | Series Condenser or Dummy Antenna | Connect Signal Generator to | Signal Generator Frequency | Tune Receiver to | Adjust in Sequence For Max. Output |
|-------|-----------------------------------|-----------------------------|----------------------------|-------------------------|------------------------------------|
| 1 | 0.1 Mfd. | 6BE6 Grid (Pin #7) | 260 KC | High Frequency Stop | A, B, C, D |
| 2 | 0.000068 Mfd. | Antenna Connector | 1615 KC | High Frequency Stop | *E, F, G |
| 3 | 0.000068 Mfd. | Antenna Connector | 1400 KC | Signal Generator Signal | J, K |
| 4 | 0.000068 Mfd. | Antenna Connector | 1615 KC | High Frequency Stop | F, G |
| 5 | 0.000068 Mfd. | Antenna Connector | 1000 KC | Signal Generator Signal | L |

△ — OSCILLATOR GRID VOLTAGE AT 1000 KC.
 * — COLORS OF TERMINALS ON SERVICE PARTS.
 † — VARIES WITH SENSITIVITY CONTROL SETTING.

*Before making this adjustment check mechanical setting of oscillator core "H." The rear of the core should be 1.25/32" from the mounting end of the coil form.



MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Western Auto Supply Co.

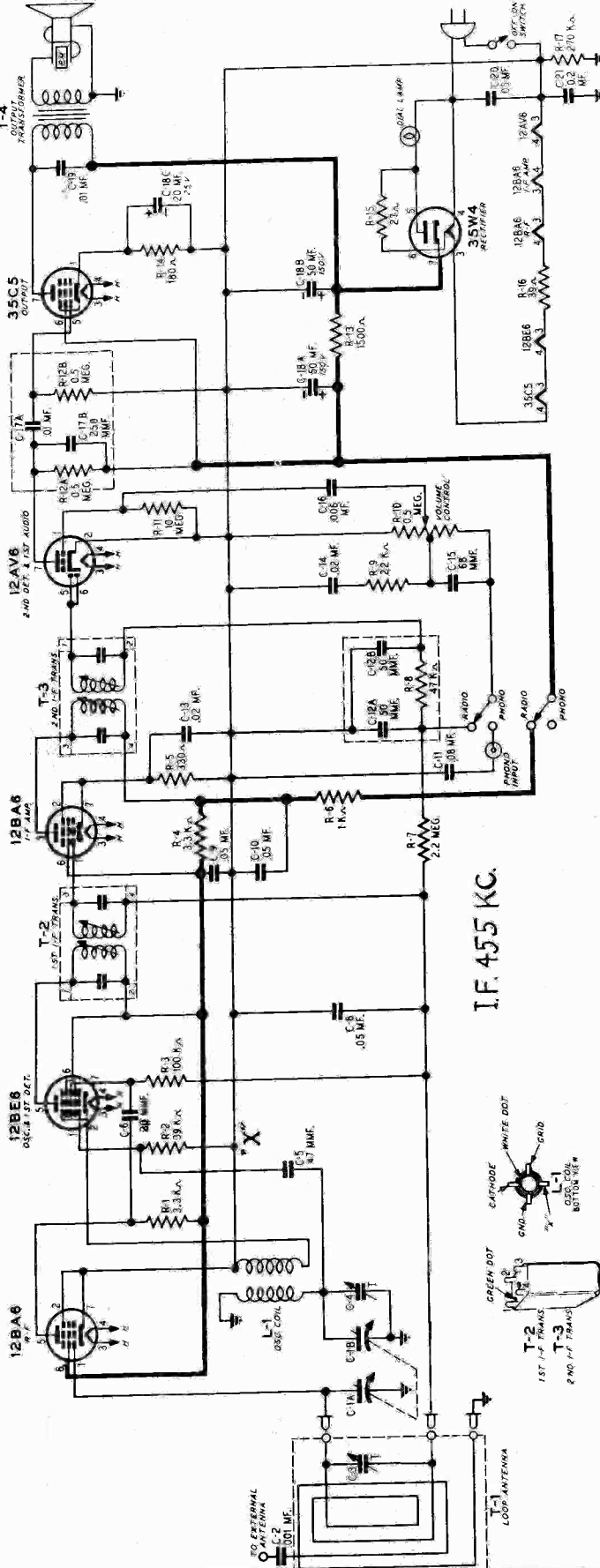
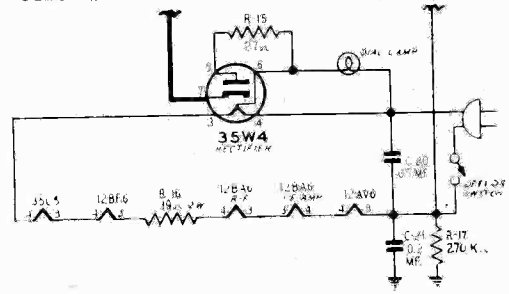
tru-tone

REG. U.S. PAT. OFF.

MODEL D2017 (WALNUT)
FACTORY MODEL 25D26-006

MODEL D2018 (IVORY)
FACTORY MODEL 225D26-002

These models with a suffix "A" had another 1500-ohm resistor wired in parallel with R-13, and had the rectifier tube 35W4 wired as shown in the partial schematic, below. In models with a suffix "B" a single 750-ohm resistor was used for R-13, and the 35W4 was wired as shown.



I.F. 455 KC.

TUBE SOCKET VOLTAGES

Socket voltages are shown on the Bottom Socket diagram at the tube socket terminals. All voltages are between the socket terminal and chassis ground. Plate, screen and cathode voltages were taken with a 1000 ohm-per-volt meter with a 300 volt scale used for plate and screen voltages. Audio grid voltages were read with a vacuum tube volt-meter.

Line voltage 117 Volts AC
Signal Input None
A Variation of $\pm 10\%$ is usually permissible.

12BE6
OSC. & 1ST DET.
G1 0.0V
G2 50V
G3 2.0V
H 0.0V
K 0.0V
L 0.0V
M 0.0V
N 0.0V
P 50V

12BA6
I-F AMP.
G1 0.0V
G2 50V
G3 1.5V
H 0.0V
K 0.0V
L 0.0V
M 0.0V
N 0.0V
P 50V

12AV6
2ND DET. & 1ST AUDIO
G1 0.0V
G2 0.3V
G3 0.3V
H 0.0V
K 0.0V
L 0.0V
M 0.0V
N 0.0V
P 10V

35C5
OUTPUT
G1 0.0V
G2 0.3V
G3 0.3V
H 0.0V
K 0.0V
L 0.0V
M 0.0V
N 0.0V
P 117V

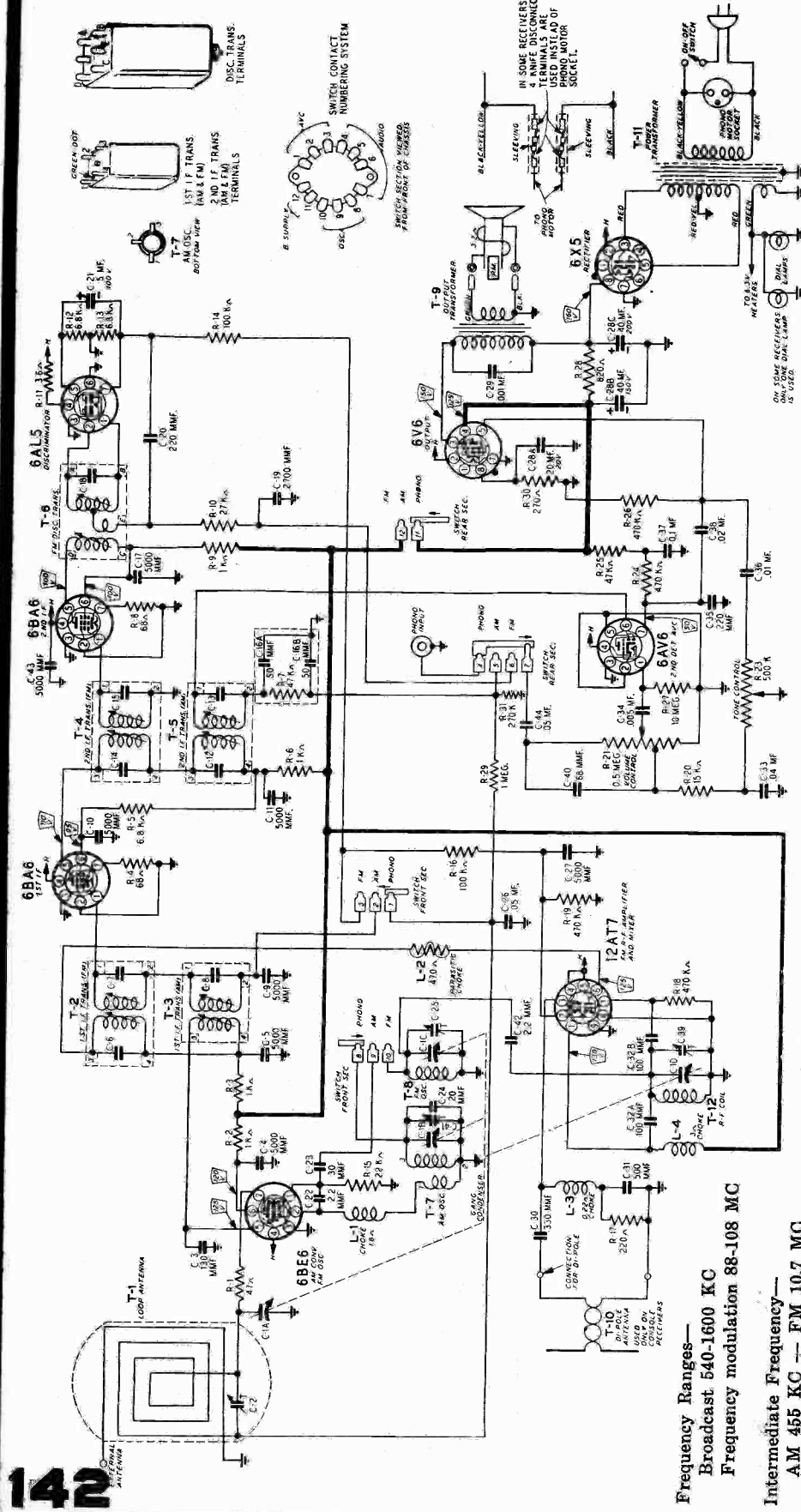
35W4
RECTIFIER
G1 0.0V
G2 0.0V
G3 0.0V
H 0.0V
K 0.0V
L 0.0V
M 0.0V
N 0.0V
P 0.0V

12BA6
R-F
G1 0.0V
G2 50V
G3 1.5V
H 0.0V
K 0.0V
L 0.0V
M 0.0V
N 0.0V
P 50V

TUBE SOCKET VOLTAGES

Socket voltages are shown on the Bottom Socket diagram at the tube socket terminals. All voltages are between the socket terminal and chassis ground. Plate, screen and cathode voltages were taken with a 1000 ohm-per-volt meter with a 300 volt scale used for plate and screen voltages. Audio grid voltages were read with a vacuum tube volt-meter.

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS



WESTERN AUTO SUPPLY COMPANY

MODEL D1046D
Factory Model 27A96-952

Models D1046 with suffix A, B, and C, and Models D1034A, -B, and -C, are very similar to Model D1046D described on this page.

Frequency Ranges—
 Broadcast 540-1600 KC
 Frequency modulation 88-108 MC

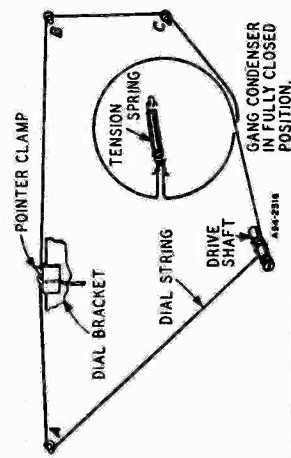
Intermediate Frequency—
 AM 455 KC — FM 10.7 MC

NOTE — In later production C-33 is .01 mf.

TUBE SOCKET VOLTAGES

Socket voltages are shown on the schematic diagram. All voltages are between the socket terminal and chassis ground. Plate, screen and cathode voltages were taken with a 1000 ohm-per-volt meter with a 300 volt scale used for plate and screen voltages. Audio grid voltages were read with a vacuum tube volt-meter. Conditions of measurement are:

- Line voltage 117 Volts AC
- Signal Input None
- A Variation of ±10% is usually permissible.



MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

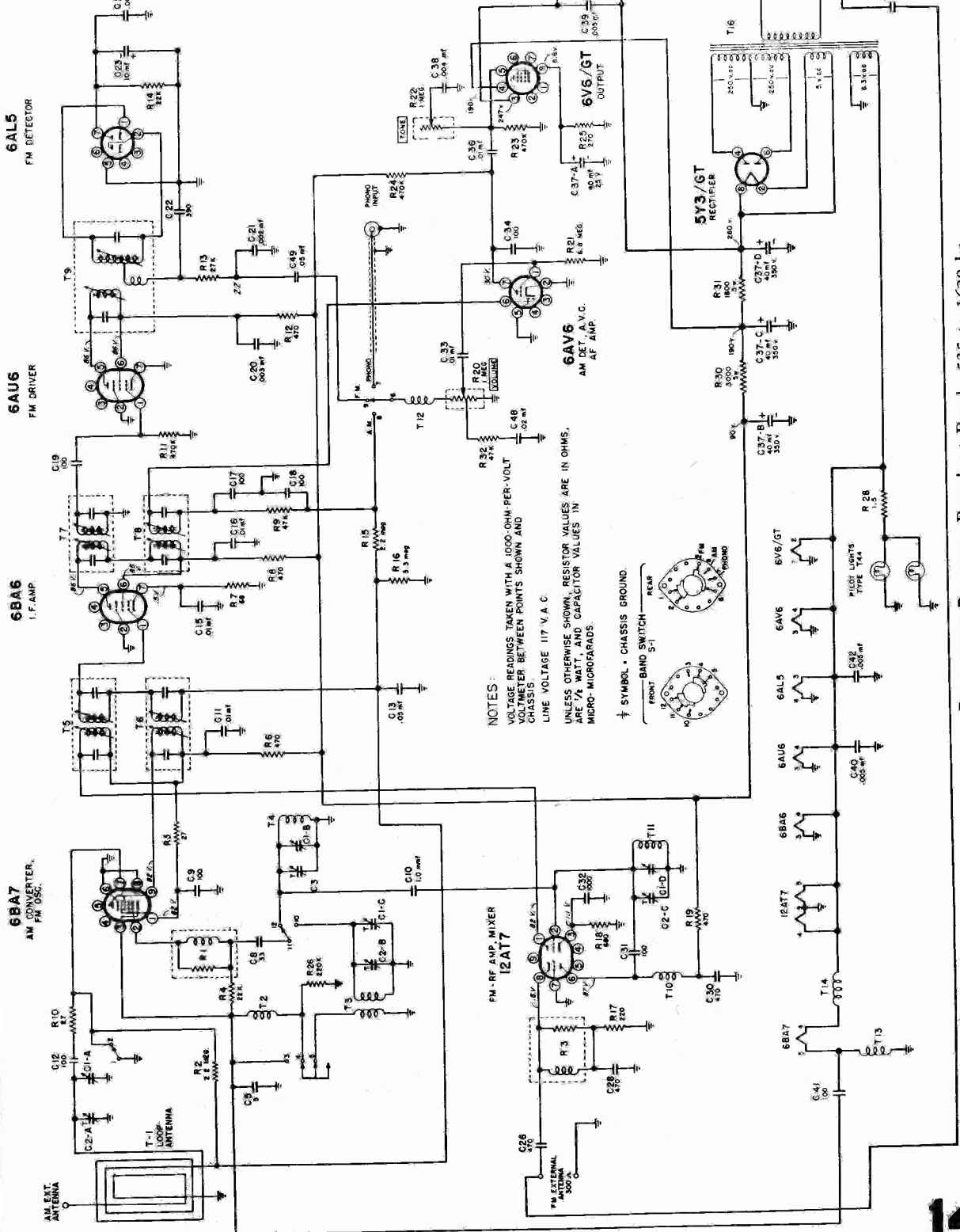
WESTERN AUTO SUPPLY COMPANY

TRUETONE RADIO

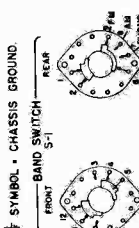
MODEL D-2026

Factory Model 8AF29

Series A



NOTES:
 VOLTAGE READINGS TAKEN WITH A 1000-OHM-PER-VOLT
 VOLTMETER BETWEEN POINTS SHOWN AND
 CHASSIS
 LINE VOLTAGE 117 V. A. C.
 UNLESS OTHERWISE SHOWN, RESISTOR VALUES ARE IN OHMS,
 ARE 1/4 WATT, AND CAPACITOR VALUES IN
 MICRO-MICROFARADS.



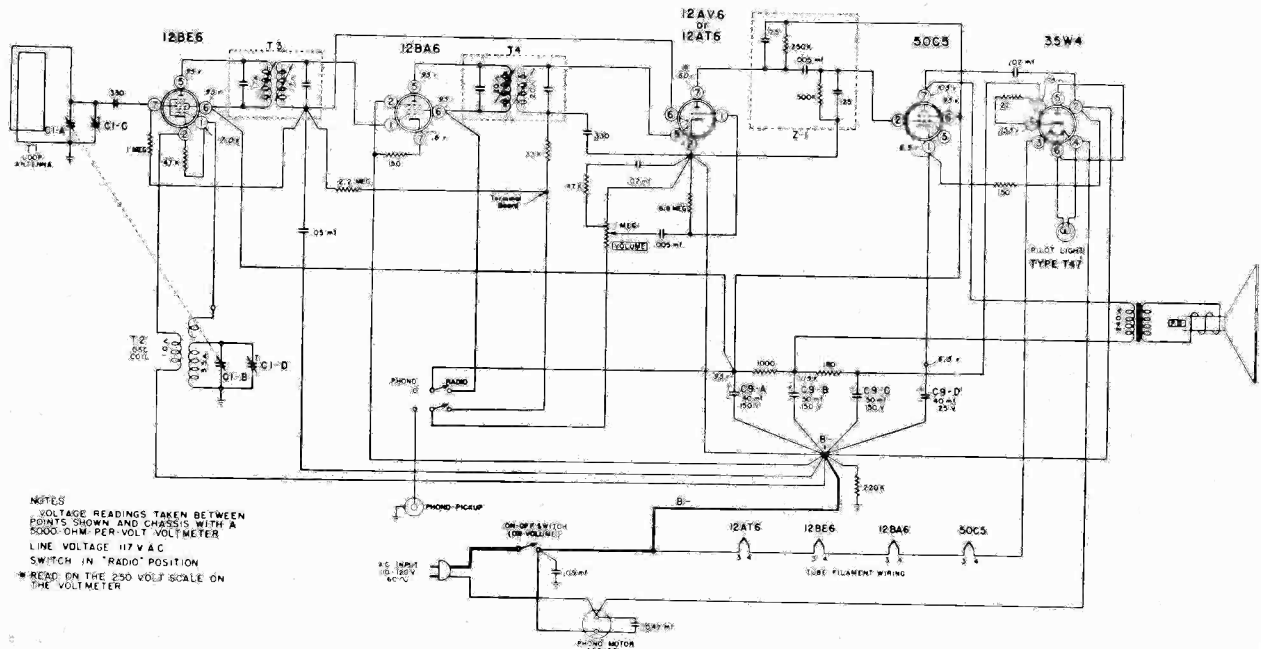
Frequency Ranges... Broadcast Band—535 to 1620 kc.
 FM Band—88 to 108 mc.
 Intermediate Freq... AM-455 kc.; FM-10.7 mc.

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

tru-tone

MODEL D-2042

Factory Model 5D162 Series A



ALIGNMENT PROCEDURE AND RECEIVER STAGE SENSITIVITIES

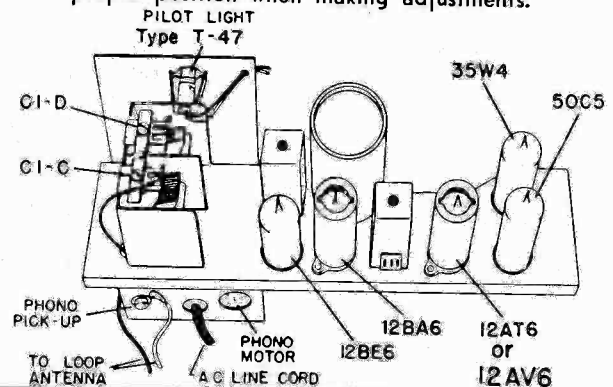
Alignment must be done in the cabinet.

| SIGNAL GENERATOR | | | | TUNER SETTING | ADJUST FOR MAXIMUM OUTPUT | INPUT FOR 50 MILLIWATT OUTPUT |
|------------------|--------------------|--|----------------------------------|--|--|-------------------------------|
| Frequency | Coupling Capacitor | Connection to Radio | Ground Connection | | | |
| 455 kc. | .1 mf. | 12BE6, Pin 7 | B MINUS POINT AT ELECTROLYTIC | Capacitor full open (plates out of mesh) | Top and bottom Cores in output and input I.F. cans | 60 microvolts |
| 1620 kc. | .1 mf. | 12BE6, Pin 7 | | Capacitor full open (plates out of mesh) | Oscillator trimmer C1-D on gang | 67 microvolts |
| 535 kc. | .1 mf. | 12BE6, Pin 7 | | Capacitor fully closed | Check for adequate range | 61 microvolts |
| 1400 kc. | — | Lay Generator lead near back of cabinet. | | Set dial pointed at 1400 kc. | Antenna trimmer C1-C on gang | 200 to 400 microvolts |
| 400 cycles | .1 mf. | 12AT6, Pin 1 or 12AV6 | | — | — | .03 volts |

The signal source must be an accurately calibrated signal generator capable of supplying both 1000 kc and 455 kc signals modulated 30% with a 400-cycle audio signal. Variations in sensitivity of plus or minus 25% are usually permissible.

The table below lists the sensitivity at the input of each stage. All measurements are based on an output of 50 milliwatts. This may be measured by disconnecting the speaker voice coil and substituting a 3.2-ohm, 5-watt resistor across the secondary winding of the output transformer. A reading of 0.4 volts AC across this resistor will be equivalent to a 50-milliwatt output with the speaker connected.

- Loop antenna should be connected to receiver and in its proper position when making adjustments.

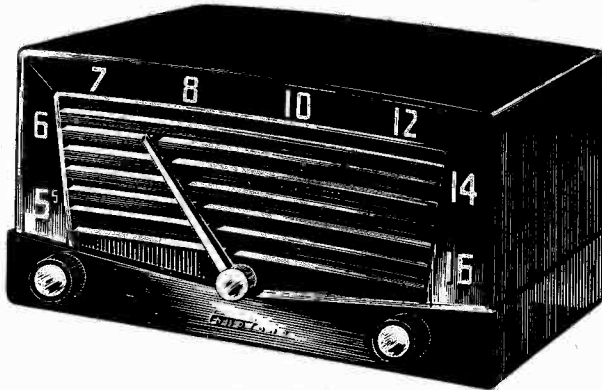


MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

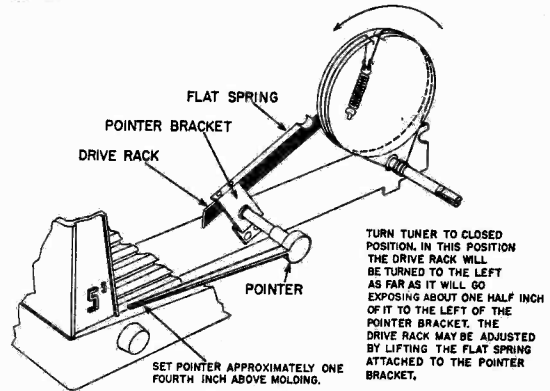
True Tone RADIO

MODEL D-2102A AND D-2103A

Factory Model 5D165



Front Cabinet View

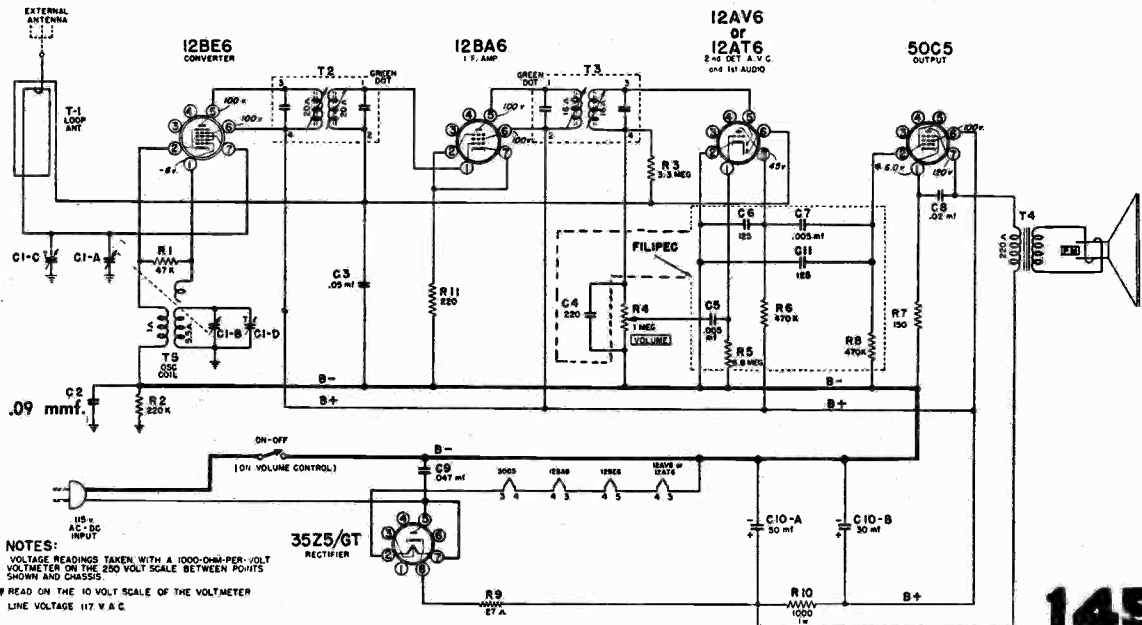


Dial Stringing Diagram

ALIGNMENT PROCEDURE

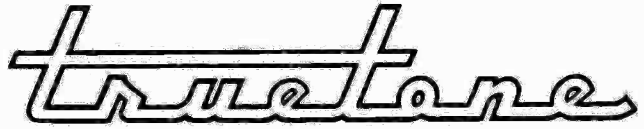
● Loop must be connected and set volume to maximum.

| SIGNAL GENERATOR | | | | TUNER SETTING | ADJUST FOR MAXIMUM OUTPUT | INPUT FOR 50-MILLIWATT OUTPUT |
|------------------|--------------------|---|--|---|--|-------------------------------|
| Frequency | Coupling Capacitor | Connection to Radio | Ground Connection | | | |
| 455 kc. | .1 mf | 12BE6, Pin 7 | HEAVY BUSS LEAD ACROSS CENTER OF CHASSIS | Capacitor fully open (plates out of mesh) | Top and bottom Cores in output and input I.F. cans | 65 microvolts |
| 1620 kc. | .1 mf | 12BE6, Pin 7 | | Capacitor fully open (plates out of mesh) | Oscillator trimmer C1-D on gang | 70 microvolts |
| 535 kc. | .1 mf. | 12BE6, Pin 7 | | Capacitor fully closed | Check for adequate range | 70 microvolts |
| 1400 kc. | | Lay generator lead near back of cabinet | | Tune in 1400 kc. signal | Antenna trimmer C-1C on gang | 200 to 400 microvolts |
| 400 cycles | .1 mf | 12AT6, Pin 1 | | | | .06 volts |



MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

WESTERN AUTO SUPPLY COMPANY



MODEL D-3120A

Factory Model 4P11

4 Tube A.C. - D.C.
Battery Portable
Built-In Antenna
Selenium Rectifier

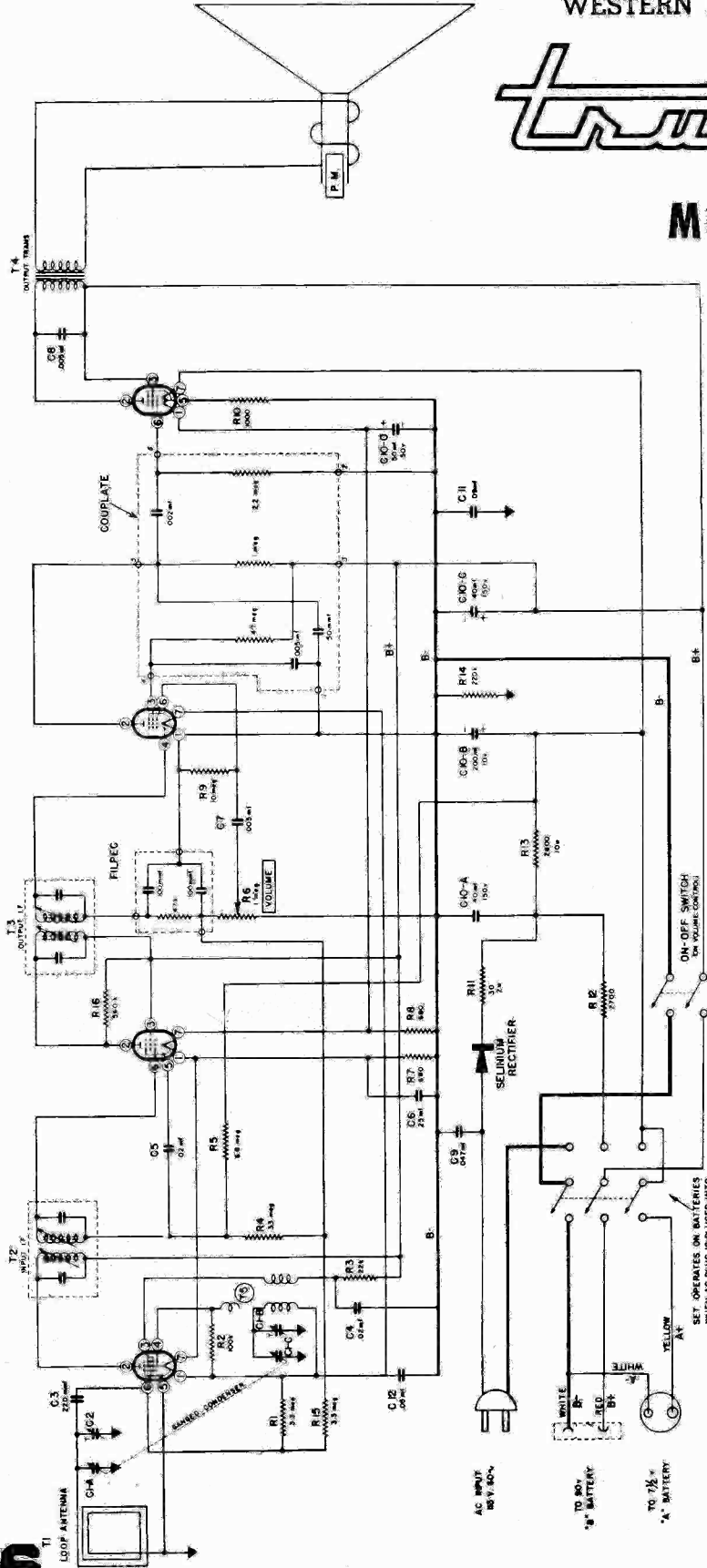
3V4
AUDIO OUTPUT

IU5
DET.-A.V.C.-A.E.

IU4
I.F. AMP

IR5
CONVERTER

146

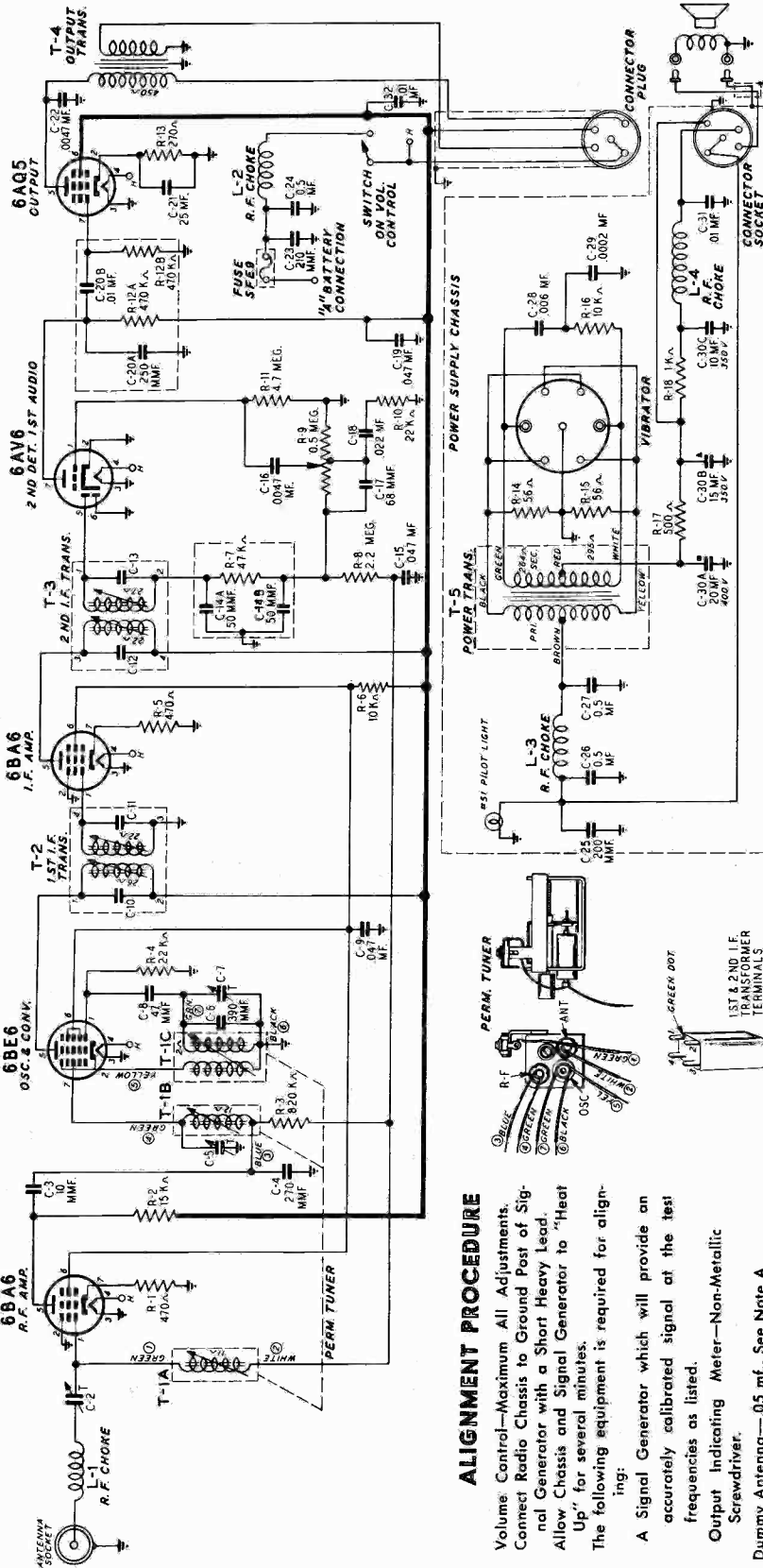


| FREQUENCY | COUPLING CAPACITOR | DIAL SETTING | CONNECTION TO RADIO | GROUND CONNECTION | ADJUST | INPUT FOR 50 MILLIWATTS OUTPUT |
|------------|--------------------|--------------|---------------------|---------------------|---------------------------|--------------------------------|
| 455 kc. | .1 mfd. | 1000 kc. | Pin No. 6 of 1R5 | B- (shell of lytic) | I.F. slugs | 100 microvolts |
| 1620 kc. | .1 mfd. | 1600 kc. | Pin No. 6 of 1R5 | B- (shell of lytic) | C1-B Osc. Trim. on gang | — |
| 1400 kc. | Radiation Loop | 1400 kc. | Radiation loop | None | C-2 Antenna Trim. on gang | 250 microvolts |
| 400 cycles | .05 mfd. | — | Pin No. 6 of IU5 | B- (shell of lytic) | — | .040 volts |
| 400 cycles | .05 mfd. | — | Pin No. 6 of 3V4 | B- (shell of lytic) | — | 3 volts |

SET OPERATES ON BATTERIES
AC PLUG REPLACES 1N10
ONASS

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

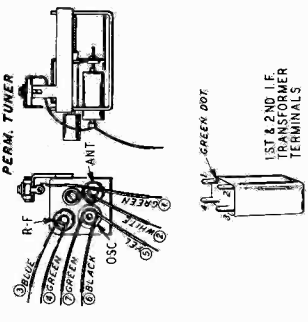
Western Auto Supply Co.
Truetone Model D4142A



ALIGNMENT PROCEDURE

Volume Control—Maximum All Adjustments. Connect Radio Chassis to Ground Post of Signal Generator with a Short Heavy Lead. Allow Chassis and Signal Generator to "Heat Up" for several minutes. The following equipment is required for aligning:

- A Signal Generator which will provide an accurately calibrated signal at the test frequencies as listed.
- Output Indicating Meter—Non-Metallic Screwdriver.
- Dummy Antenna—.05 mf., See Note A.



| SIGNAL GENERATOR FREQUENCY SETTING | CONNECTION AT RADIO | DUMMY ANTENNA | IRON CORE SETTING | ADJUST TUNING SLUGS (IF) AND TRIMMERS TO MAXIMUM |
|------------------------------------|----------------------------|---------------|------------------------------|--|
| I.F. | Control Grid (prong No. 7) | | | |
| 455 KC | 6BE6 Mixer Tube | .05 mf. | Extreme Position out of Coil | 1st I.F. Pri. (1) & Sec. (2) 2nd I.F. Pri. (3) & Sec. (4) |
| 1605 KC | Antenna Cable | See Note A | Extreme Position out of Coil | Oscillator (C-7) |
| 1605 KC | Antenna Cable | See Note A | Extreme Position out of Coil | R.F. (C-5) Ant. (C-2) |

Reassemble Radio—Install in Car—Connect Car Antenna to Radio.

Car Antenna Readjustment—Tune in weak signal near 1600 KC—Readjust Antenna Trimmer C-2 for maximum output.

Attenuate the signal from the signal generator to prevent the leveling-off action of the AVC.

NOTE A—Insert the antenna cable plug in the antenna socket on the chassis. The total capacity of the antenna cable and dummy antenna should be 60 mmf. If the cable, for example, has a capacity of 30 mmf., use a 30 mmf. condenser for a dummy antenna. Connect the other end of the antenna cable through the dummy antenna capacity to the output of the signal generator.

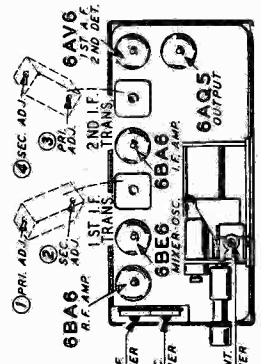


Fig. 4 — Tube Layout

MODEL D4142A
Factory Model 25C23-11

Western Auto Supply Co.

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

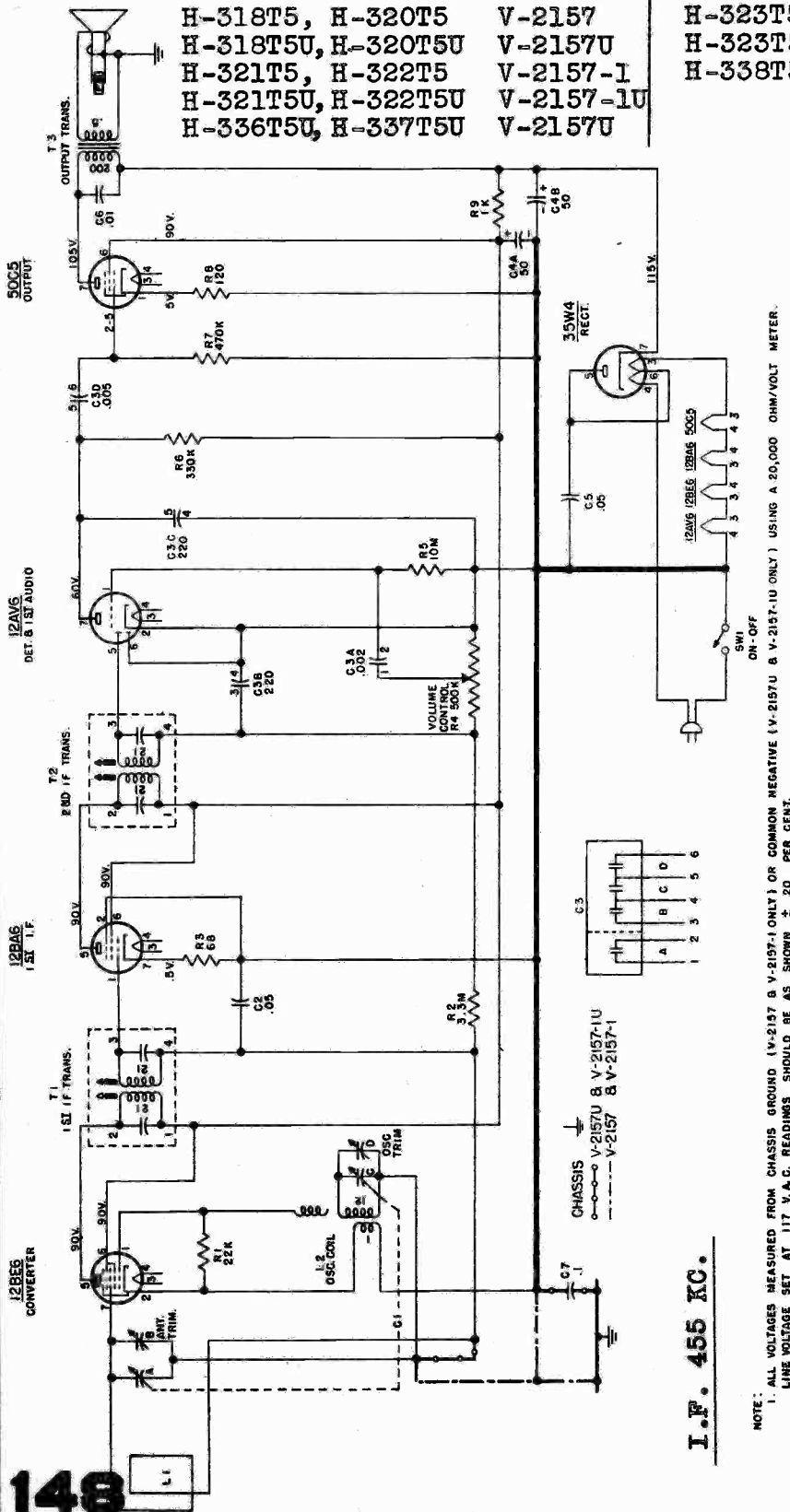
Westinghouse

Models listed at left below correspond exactly to the circuit on this page.

| Models | Chassis |
|--------------------|-----------|
| H-318T5, H-320T5 | V-2157 |
| H-318T5U, H-320T5U | V-2157U |
| H-321T5, H-322T5 | V-2157-1 |
| H-321T5U, H-322T5U | V-2157-1U |
| H-336T5U, H-337T5U | V-2157U |

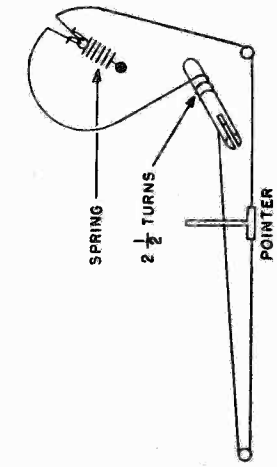
Similar models are listed below:

H-323T5, Chassis V-2157-2,
 H-323T5U, Chassis V-2157-2U,
 H-338T5U, H-341T5U, V-2157-4U.

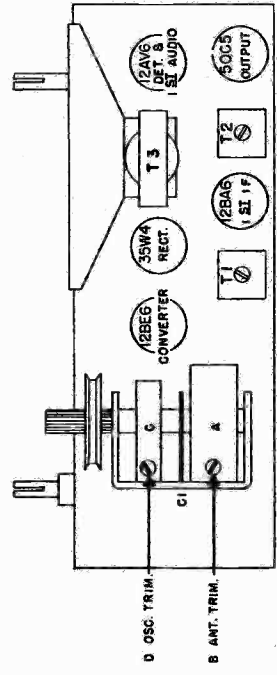


I.F. 455 KC.

NOTE: 1. ALL VOLTAGES MEASURED FROM CHASSIS GROUND (V-2157 & V-2157-1 ONLY) OR COMMON NEGATIVE (V-2157U & V-2157-1U ONLY) USING A 20,000 OHM/VOLT METER. LINE VOLTAGE SET AT 117 V.A.C. READINGS SHOULD BE AS SHOWN \pm 20 PER CENT.



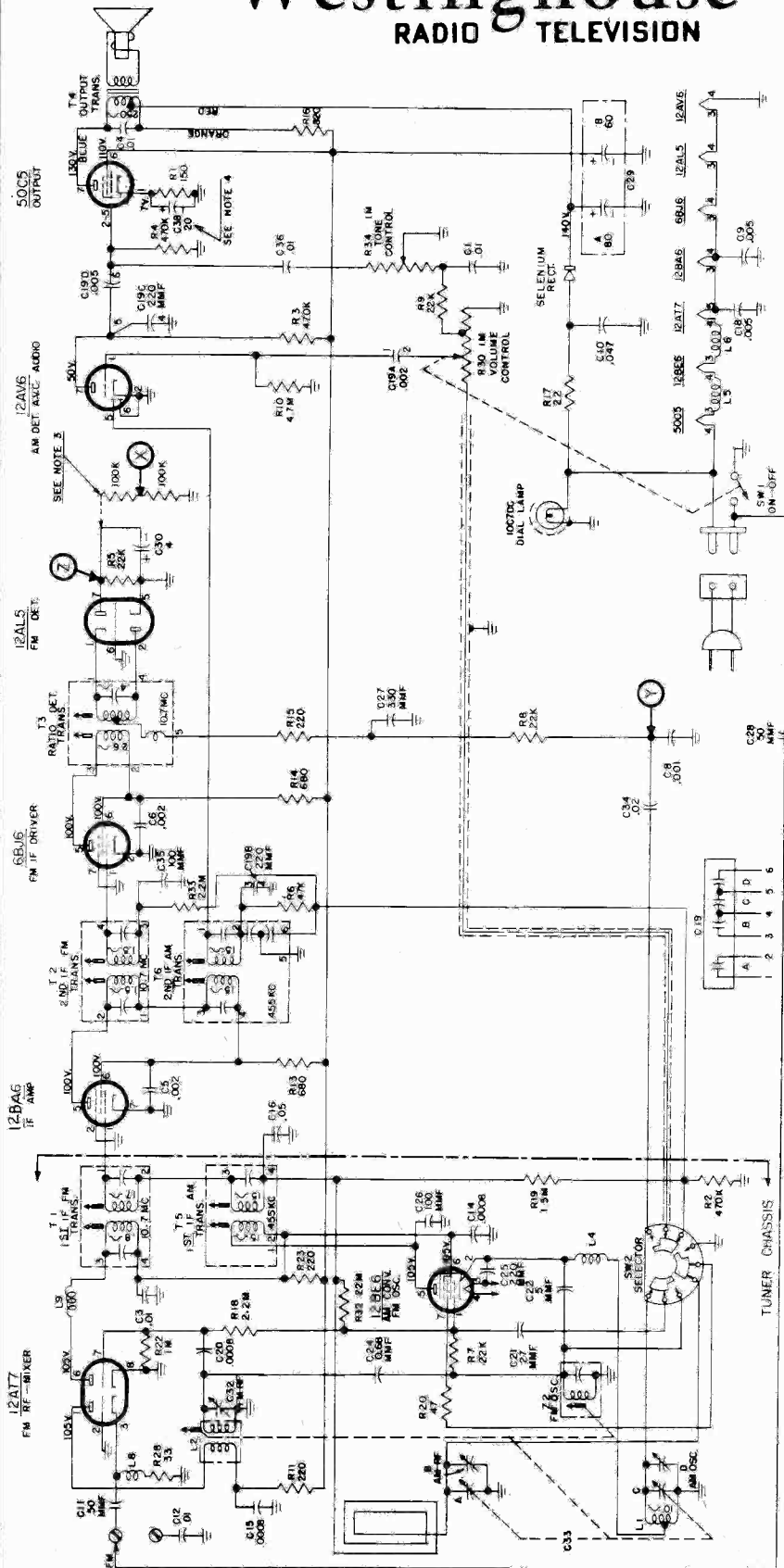
DIAL DRIVE FOR V-2157-1 AND V-2157-1U CHASSIS



DIAL DRIVE AND CHASSIS LAYOUT FOR V-2157 AND V-2157U CHASSIS

Westinghouse

RADIO TELEVISION



- NOTES:
1. SELECTOR SWITCH SW2 IS SHOWN IN EXTREME CLOCKWISE POSITION OR AM BAND. EXTREME COUNTER CLOCKWISE POSITION IS FM BAND.
 2. ALL VOLTAGES MEASURED FROM CHASSIS (GROUND) USING A 20,000 OHM/VOLT METER. LINE VOLTAGE SET AT 117V. A.C. VOLTAGES SHOULD BE AS SHOWN ± 20 PER CENT.
 3. TO BE INSTALLED FOR ALIGNMENT ONLY.
 4. C28 NOT TO BE PART OF C25.
 5. ALL CAPACITANCE VALUES IN MFD AND ALL RESISTANCE VALUES IN OHMS UNLESS OTHERWISE SPECIFIED.

MODELS H-334T7U AND H-335T7U CHASSIS V-2136-5U

Alignment information for this chassis is given on the reverse side of this page.

There are a number of other Westinghouse receivers designed for AM and FM reception which use the same type of tubes and utilize circuits very similar to V-2136-5U here described. These models are tabulated at right:

| Chassis | Models | Type | Changer |
|----------|--------------------------------------|-------|------------------|
| V-2136 | H-307T7, H-308T7, H-324T7U, H-325T7U | Table | Table |
| V-2136-1 | H-316C7, H-317C7, H-326C7 | Comb. | V-9481 V-9840 |
| V-2136-2 | H-324T7, H-325T7 | Table | V-9481 |
| V-2136-4 | H-328C7 | Comb. | V-9481 |

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Westinghouse Models H-334T7U and H-335T7U, Chassis V-2136-5U, continued

ALIGNMENT BROADCAST BAND

Connect an output meter across the speaker voice coil.

While making the following adjustments, keep the volume control set for maximum output and the signal generator output attenuated to avoid AVC action.

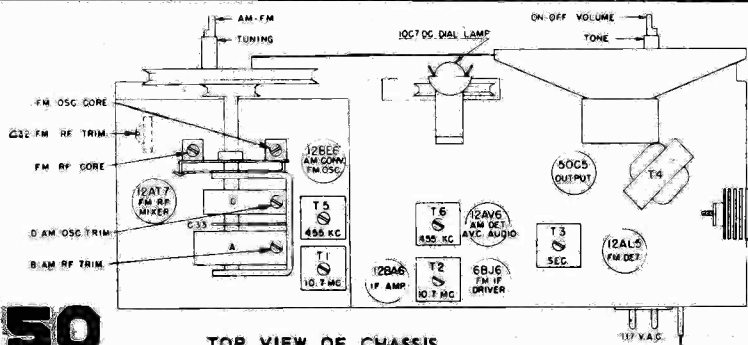
Check the dial pointer position by meshing the tuning capacitor plates completely and seeing that the dial pointer is set on the end mark of the dial scale.

| Step | Connect Signal Generator to — | Signal Generator Frequency | Radio Dial Setting | Adjust |
|---|--|----------------------------|--------------------|---|
| 1 | Set the band switch to AM | | | |
| 2 | Stator of tuning capacitor (A) through a 0.1 mfd capacitor | 455 kc. | minimum capacity | Pri. and sec. of T6 and T5 for max. output in order given |
| <i>NOTE: If the I-F transformers are badly mis-aligned, it may be impossible to obtain sufficient output using the above system. In this event, it will be necessary to align each transformer separately. Start with the last I-F transformer and work forward, connecting the signal generator to the control grid of the tube preceding the transformer under alignment.</i> | | | | |
| 3 | Radiated signal (no actual connection) | 1615 kc. | minimum capacity | AM osc. trimmer (D) for max. output |
| 4 | Radiated signal (no actual connection) | 1400 kc. | tune to signal | AM R-F trimmer (B) for max. output (rock-in adjustment) |

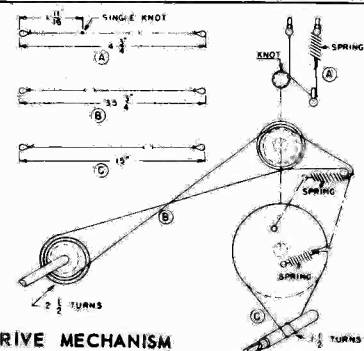
FM BAND

Do not align the FM circuits until all AM adjustments have been completed.

| Step | Connect Signal Generator to — | Signal Generator Frequency | Radio Dial Setting | Adjust |
|------|---|----------------------------|--------------------|---|
| 1 | Set the band switch to FM | | | |
| 2 | Connect two 100,000 ohm resistors (the resistances must be equal within 5 per cent) between pin No. 7 of the 12AL5 tube and ground as shown on the schematic diagram. | | | |
| 3 | Connect a V.T.V.M. between points "X" and "Y" (see schematic diagram). | | | |
| 4 | Pin No. 7 of 12AT7 through a .01 mfd mica capacitor | 10.7 mc. | minimum capacity | Sec. of T3 for zero (use medium strength signal) |
| 5 | Connect the V.T.V.M. between point "Z" and ground. | | | |
| 6 | Same as step 4 | 10.7 mc. | minimum capacity | Pri. of T3 and pri. and sec. of T1 and T2 for maximum voltage |
| 7 | Reconnect the V.T.V.M. between points "X" and "Y" and increase the signal strength 10 times. | | | |
| 8 | Same as step 4 | 10.7 mc. | minimum capacity | Recheck sec. of T3 for zero voltage |
| 9 | Reconnect the V.T.V.M. between point "Z" and ground. | | | |
| 10 | Same as step 4 | 10.7 mc. | min. cap. | Pri. of T3 for maximum voltage |
| 11 | Remove the two 100,000 ohm resistors that were inserted in step 2. | | | |
| 12 | FM ant. terminal through a 300 ohm non-inductive resistor | 98 mc. | 98 mc. | FM osc. core for maximum voltage |
| 13 | Same as step 12 | 98 mc. | 98 mc. | FM R-F trimmer (C32) for maximum voltage |
| 14 | Same as step 12 | 105 mc. | tune to signal | FM R-F core for maximum voltage |
| 15 | Same as step 12 | 90 mc. | tune to signal | FM R-F trimmer (C32) for maximum voltage (rock-in) |
| 16 | Recheck steps 14 and 15 for tracking. | | | |



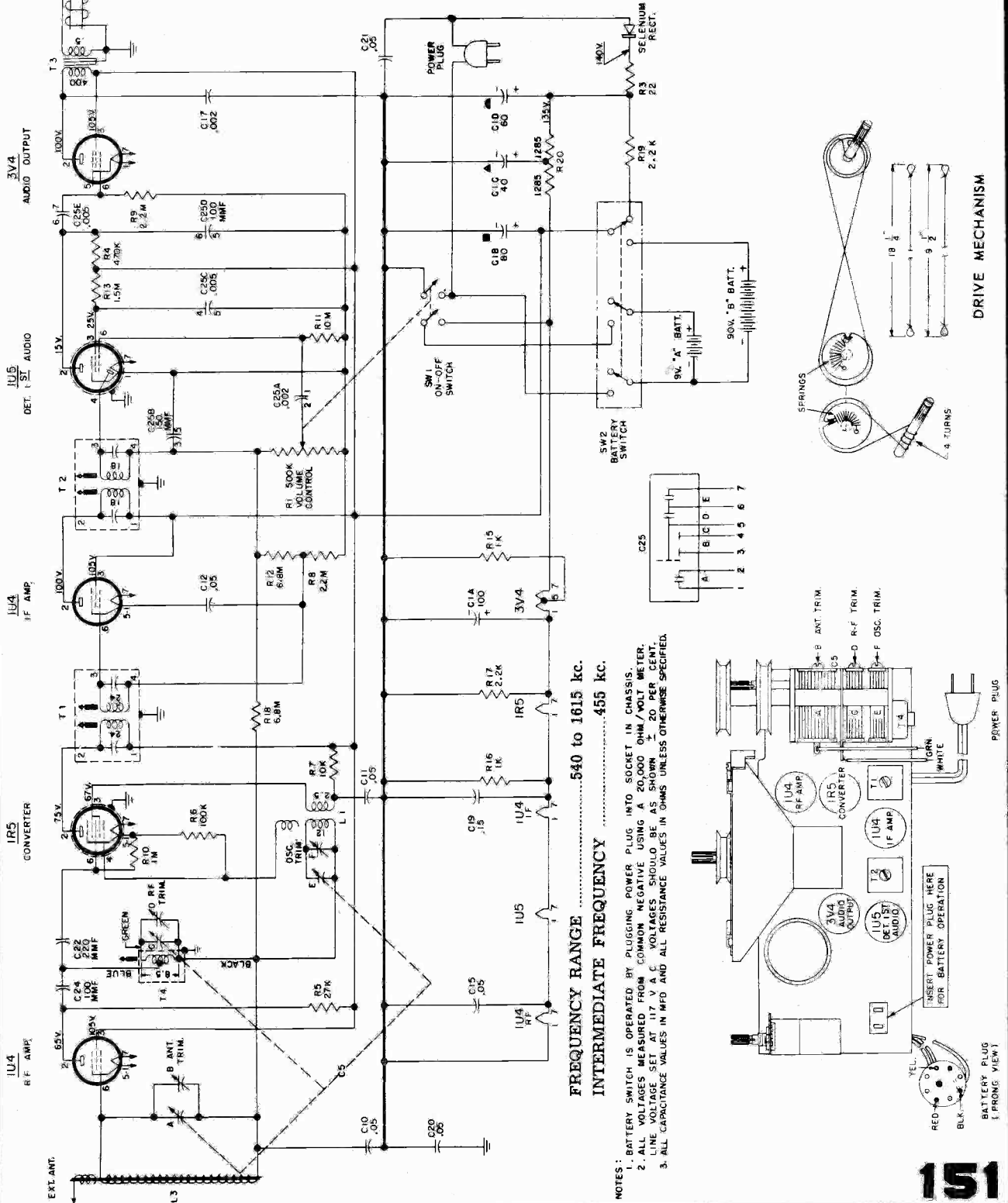
TOP VIEW OF CHASSIS



DRIVE MECHANISM

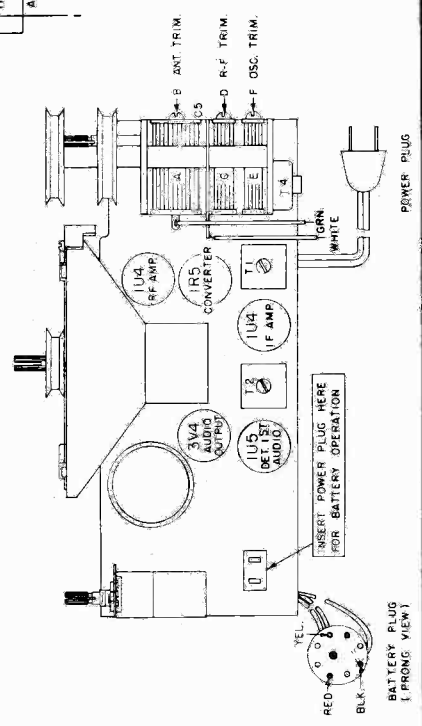
Westinghouse CHASSIS V-2156-1U MODELS H-342P5U AND H-343P5U

Models H-309P5 and H-309P5U, Chassis V-2156, is similar.



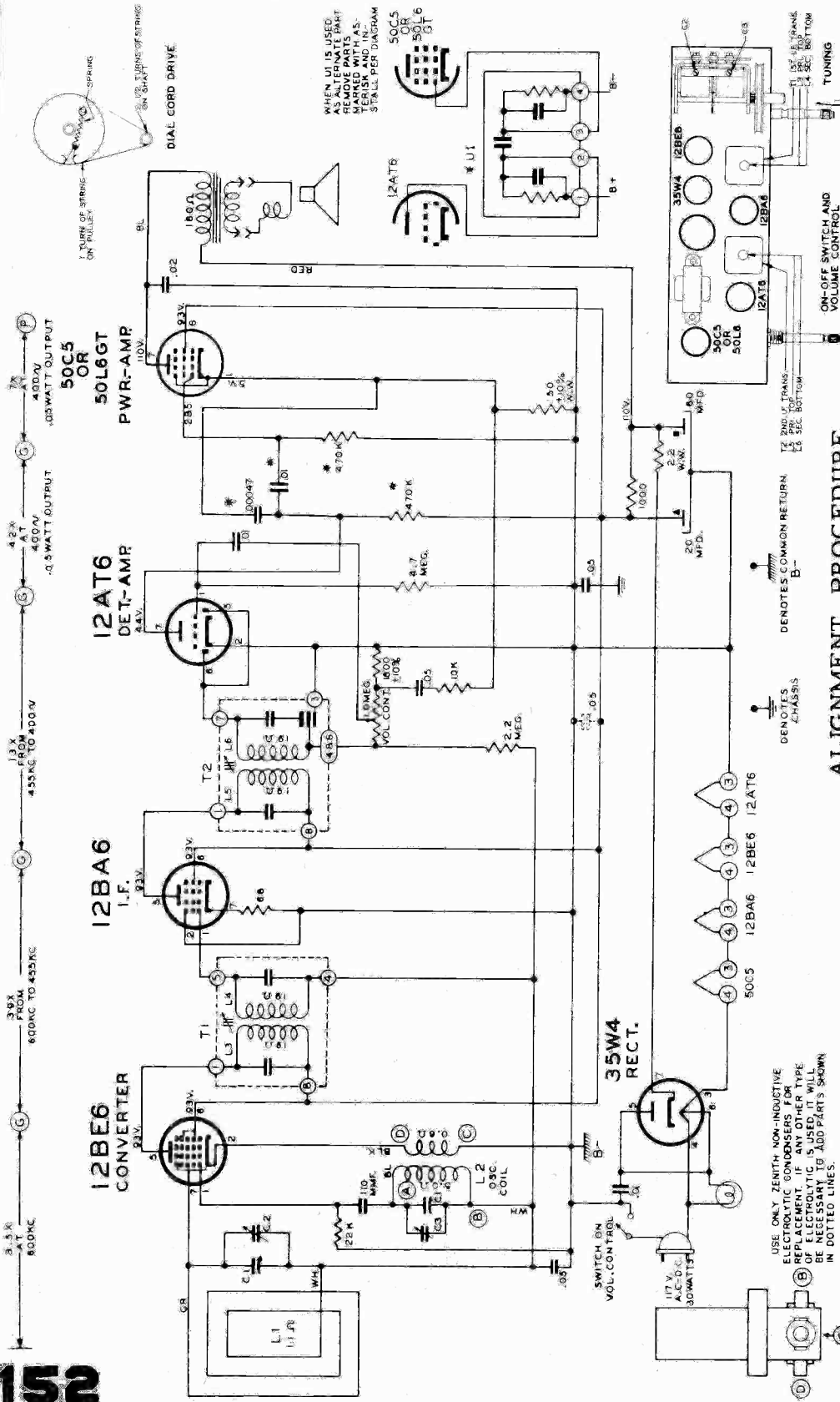
FREQUENCY RANGE 540 to 1615 kc.
INTERMEDIATE FREQUENCY 455 kc.

- NOTES:
1. BATTERY SWITCH IS OPERATED BY PLUGGING POWER PLUG INTO SOCKET IN CHASSIS.
 2. ALL VOLTAGES MEASURED FROM COMMON NEGATIVE USING A 20,000 OHM/VOLT METER. LINE VOLTAGE SET AT 117 V. A.C. VOLTAGES SHOULD BE AS SHOWN UNLESS OTHERWISE SPECIFIED.
 3. ALL CAPACITANCE VALUES IN MFD AND ALL RESISTANCE VALUES IN OHMS UNLESS OTHERWISE SPECIFIED.



MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

ZENITH MODELS H511, H511Y, H511W, CHASSIS 5H01



ALIGNMENT PROCEDURE

| OPERATION | CONNECT OSCILLATOR TO ANTENNA | DUMMY ANTENNA | INPUT SIG. FREQUENCY | SET DIAL AT | TRIMMERS | PURPOSE |
|-----------|--|---------------|----------------------|-------------|----------------|-------------------------------|
| 1 | Converter Grid | .5 Mid. | 455 Kc. | 600 Kc. | L3, L4, L5, L6 | Align I.F. for maximum output |
| 2 | One Turn Loop Coupled Loosely to Wave Magnet | --- | 1600 Kc. | 1600 Kc. | C3 | Set Oscillator to Dial Scale. |
| 3 | | --- | 1400 Kc. | 1400 Kc. | C2 | Align Antenna Stage |

USE ONLY ZENITH NON-INDUCTIVE ELECTROLYTIC CONDENSERS OR TYPE REPLACEMENT CONDENSERS. TYPE OF ELECTROLYTIC IS USED IT WILL BE NECESSARY TO ADD PARTS SHOWN IN DOTTED LINES.

I. F. FREQUENCY 455 KC.

TUNING RANGE 535 — 1620 KC.

I. P. TRANSFORMER NUMBERING STARTS WITH "1" TERMINAL AS FIRST TERMINAL AND "2" TERMINAL AS SECOND TERMINAL MARKER AS VIEWED FROM BOTTOM OF CHASSIS.

ALL VOLTAGES MEASURED FROM COMMON RETURN TO POINTS INDICATED WITH AN "A", "C", "D", OR VACUUM TUBE VOLT-METER.

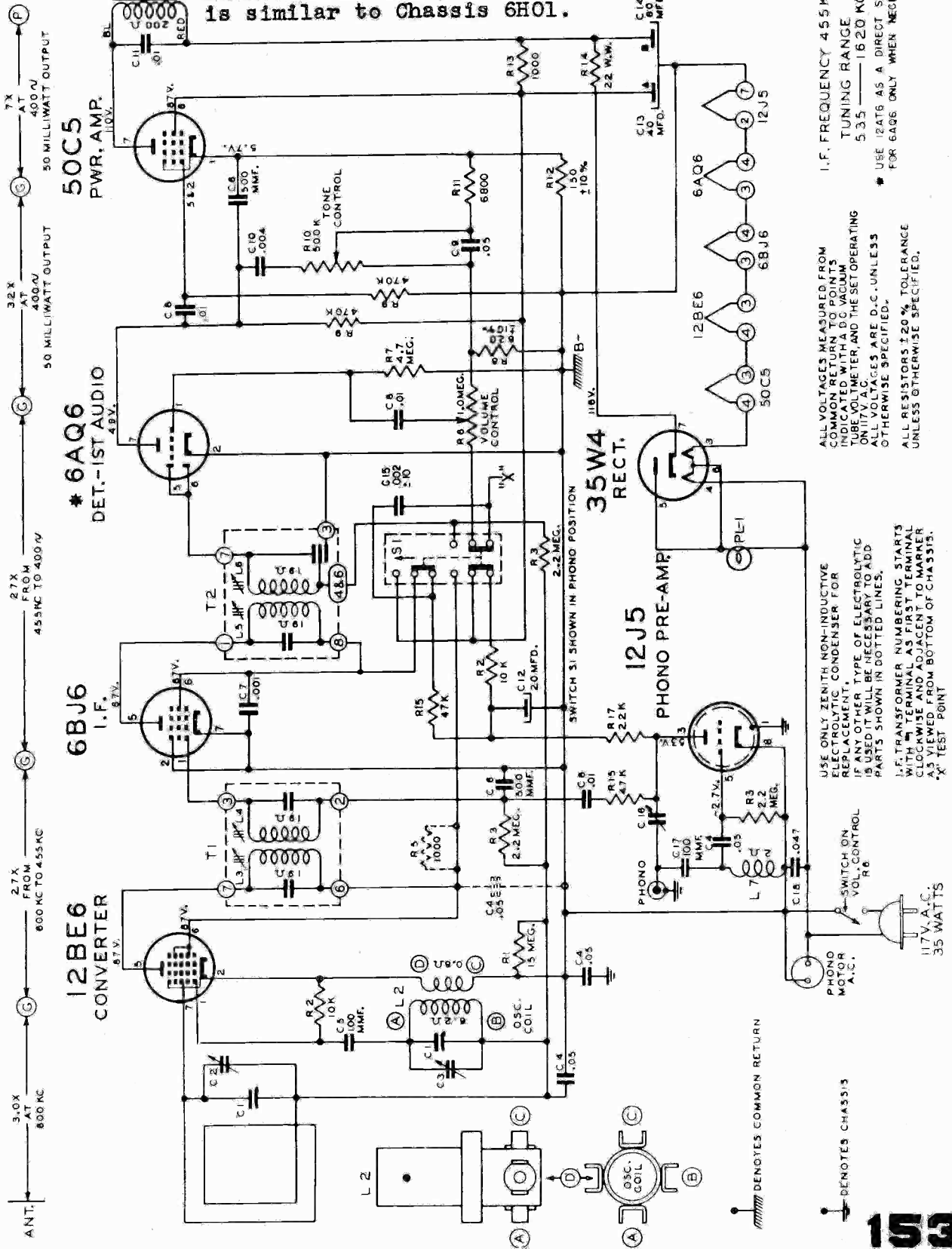
ALL VOLTAGES ARE D.C. UNLESS OTHERWISE SPECIFIED.

ALL RESISTORS ± 20% TOLERANCE UNLESS OTHERWISE SPECIFIED.

1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

MODELS H665, H665R, H665Z, H665RZ, H661E & H661R
CHASSIS 6H01

Zenith Model H664, Chassis 6H02,
is similar to Chassis 6H01.



I.F. FREQUENCY 455 KC
COMMON RETURN TO POINTS
INDICATED WITH A DC VACUUM
TUBE VOLUME METER AND THE SET OPERATING
5.35 — 16.20 MC
* USE 12AT6 AS A DIRECT SUBSTITUTE
FOR 6A66 ONLY WHEN NECESSARY.

ALL VOLTAGES MEASURED FROM
COMMON RETURN TO POINTS
INDICATED WITH A DC VACUUM
TUBE VOLUME METER AND THE SET OPERATING
ALL VOLTAGES ARE D.C. UNLESS
OTHERWISE SPECIFIED.
ALL RESISTORS ±20% TOLERANCE
UNLESS OTHERWISE SPECIFIED.

USE ONLY ZENITH NON-INDUCTIVE
ELECTROLYTIC CONDENSER FOR
REPLACEMENT.
IF ANY OTHER TYPE OF ELECTROLYTIC
IS USED IT WILL BE NECESSARY TO ADD
PARTS SHOWN IN DOTTED LINES.
I.F. TRANSFORMER NUMBERING STARTS
WITH 1. TERMINAL AS FIRST TERMINAL
CLOCKWISE AND ADJACENT TO MARKER
A.3 VIEWED FROM BOTTOM OF CHASSIS.
* X: TEST POINT

SWITCH ON
VOL. CONTROL
R6

PHONO MOTOR
A.C.
117V. A.C.
35 WATTS

SWITCH S1 SHOWN IN PHONO POSITION

PHONO PRE-AMP
12J5

35W4
RECT.

50C5
PWR. AMP.
110V.

6AQ6
DET.-1ST AUDIO
4.8V.

6BJ6
I.F.

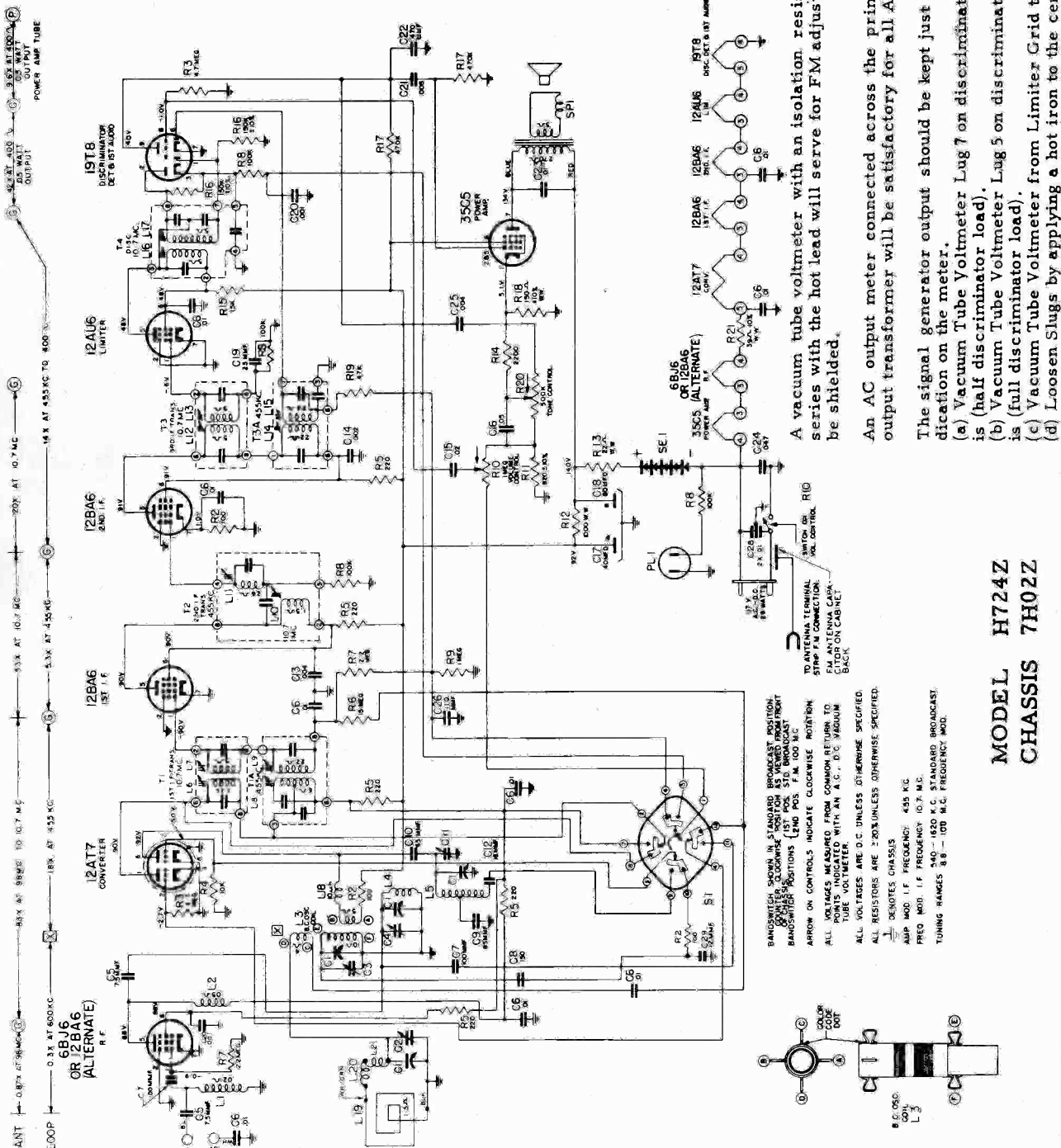
12BE6
CONVERTER
87V.

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

Zenith Radio Corp. Model H724Z, Chassis 7H02Z

Zenith Model H724, Chassis 7H02, is identical to the "Z" version covered on this page, except for radiation proofing (use of chokes, shielding, etc.).

For alignment, the procedure outlined at the bottom of the schematic on this page should be used with the alignment table on page 155.



A vacuum tube voltmeter with an isolation resistor of 2,000,000 ohms in series with the hot lead will serve for FM adjustments. This lead should be shielded.

An AC output meter connected across the primary or secondary of the output transformer will be satisfactory for all AM adjustments.

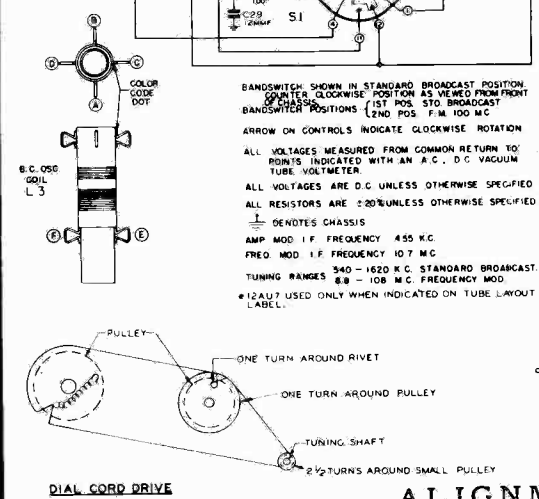
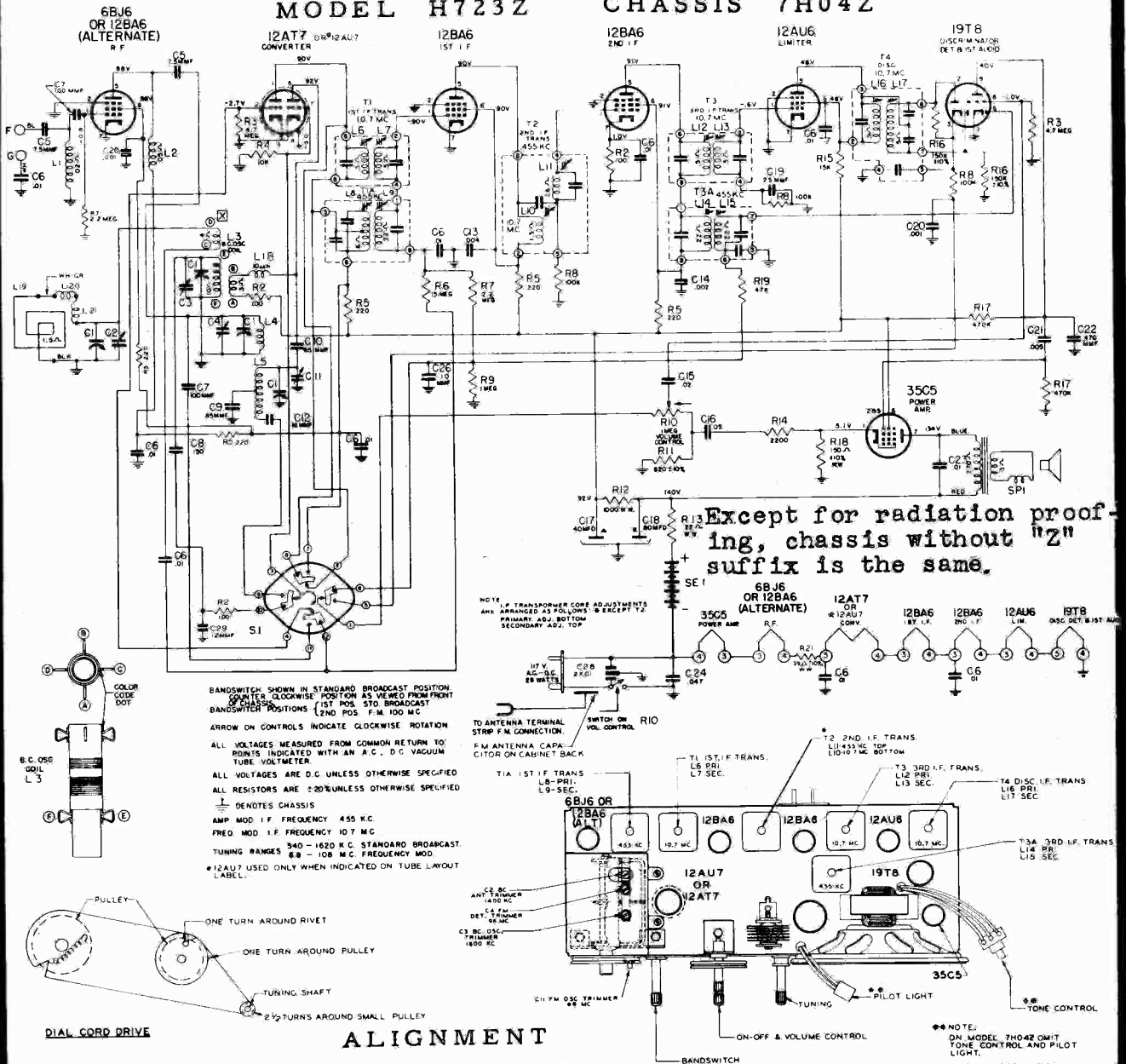
- The signal generator output should be kept just high enough to get an indication on the meter.
- (a) Vacuum Tube Voltmeter Lug 7 on discriminator transformer to chassis is (half discriminator load).
- (b) Vacuum Tube Voltmeter Lug 5 on discriminator transformer to chassis is (full discriminator load).
- (c) Vacuum Tube Voltmeter from Limiter Grid to Chassis.
- (d) Loosen Slugs by applying a hot iron to the cement.

BANDSWITCH SHOWN IN STANDARD BROADCAST POSITION.
 BANDSWITCH POSITIONS FOR STATION FREQUENCY FRONT
 OF CHASSIS INDICATE COUNTERCLOCKWISE ROTATION
 ARROW ON CONTROLS INDICATE CLOCKWISE ROTATION
 ALL VOLTAGES MEASURED FROM COMMON RETURN TO
 TUBE VOLTMETER.
 ALL POINTS INDICATED WITH AN A.C. D.C. VACUUM
 TUBE VOLTMETER.
 ALL VOLTAGES ARE D.C. UNLESS OTHERWISE SPECIFIED.
 ALL RESISTORS ARE 20% UNLESS OTHERWISE SPECIFIED.
 DENOTES CHASSIS
 AMP. MOD. I.F. FREQUENCIES: 455 KC.
 PRE. MOD. I.F. FREQUENCIES: 0.7 MC.
 ALL POINTS INDICATED FOR STANDARD BROADCAST.
 TUNING RANGES: 89 - 100 MC. FREQUENCY MOD.

MODEL H724Z
 CHASSIS 7H02Z

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

MODEL H723Z CHASSIS 7H04Z

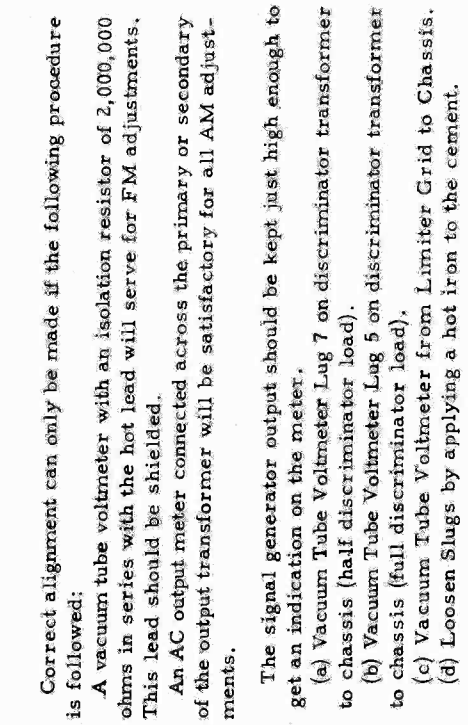


| | Connect Oscillator to | Dummy Antenna | Input Signal Frequency | Band Dial | Adj. Trimmers | Purpose |
|--------------|---|---------------|------------------------|---------------|---|---|
| 1 | Pin 2-12AT7 or 12AU7 Converter | .05 Mfd. | 455 KC. Modulated | BC 600 Kc. | L8, 9, 11, 14, 15 | Align I. F. channel for maximum output. |
| 2 | 2 turns loosely cpd. to wavemagnet | | 1600 Kc. Modulated | BC1600 Kc. | C3 | Set oscillator to dial scale. |
| 3 | 2 turns loosely cpd. to wavemagnet | | 1400 Kc. Modulated | BC1400 Kc. | C2 | Align antenna stage. |
| 4(a) | Pin 1 (grid) on 12AU6 limiter. | .05 Mfd. | 10.7 Mc. Unmodulated | FM 100 | L16 coil slug | Align primary of discriminator for maximum reading. |
| 5(b) | Pin 1 (grid) on 12AU6 limiter. | .05 Mfd. | 10.7 Mc. Unmodulated | FM 100 | L17 coil slug sec. of discr. | Adjust secondary of discriminator for zero reading. |
| 6(c) | Pin 1 (grid) on 12BA6 2nd IF. | .05 Mfd. | 10.7 Mc. Unmodulated | FM 100 | L12 and 13 Prim and Sec. of 3rd IF trans. | Align 3rd IF transformer for maximum reading. |
| 7(c) | Pin 1 (grid) on 12BA6 1st IF. | .05 Mfd. | 10.7 Mc. Unmodulated | FM 100 | L10 Prim. of 2nd IF transformer. | Align 2nd IF transformer for maximum reading. |
| 8(c) | Pin 2 (grid) on 12AT7 or 12AU7 converter tube socket. | .05 Mfd. | 10.7 Mc. Unmodulated | FM 100 | L6 and L7 Prim. and Sec. of 1st IF transformer. | Align 1st IF transformer for maximum reading. |
| 9(c) | Antenna Post FM (Remove line ant.) | 270 ohms | 98 Mc. Unmodulated | FM 98 Mc. 100 | C11 Osc. Coil. | Set Oscillator to dial scale. |
| 10(c) (d) | | 270 ohms | 98 Mc. Unmodulated | FM 98 Mc. 100 | C4 Det. Coil. | Align det. stage to max. reading. |

* ALIGNMENT PROCEDURE * MODEL H880R2, CHASSIS 8H20
(See page 157 for schematic diagram).

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO

| | Connect Oscillator To | Dummy Antenna | Input Signal Frequency | Band | Set Dial To | Adj. Trimmers | Purpose |
|------------|--|---------------|------------------------|------|-------------|--|---|
| 1 | Pin 2 12AT7 Converter | .05 Mfd. | 455 Kc. | BC | 600 Kc. | L9, 10, 13, 14 | Align I. F. channel for maximum output. |
| 2 | 2 turns loosely cpd. to wavemagnet | | 1600 Kc. | BC | 1600 Kc. | C4 | Set oscillator to dial scale. |
| 3 | 2 turns loosely cpd. to wavemagnet | | 1400 Kc. | BC | 1400 Kc. | C3, C2 | Align detector and antenna stage. |
| 4 (a) | Pin 1 (grid) on 12AU6 limiter. | .05 Mfd. | 10.7 Mc. | FM | | L16 coil slug | Align primary of discriminator for maximum reading. |
| 5 (b) | Pin 1 (grid) on 12AU6 limiter. | .05 Mfd. | 10.7 Mc. | FM | | L17 coil slug | Adjust secondary of discriminator for zero reading. |
| 6 (c) | Pin 1 (grid) on 12BA6 2nd. I.F. | .05 Mfd. | 10.7 Mc. | FM | | L15 Prim. of 3rd. IF trans. | Align 3rd. IF transformer for maximum reading. |
| 7 (c) | Pin 1 (grid) on 12BA6 1st. IF. | .05 Mfd. | 10.7 Mc. | FM | | L11 and L12 Prim. and Sec. of 2nd. IF transformer. | Align 2nd IF transformer for maximum reading. |
| 8 (c) | Pin 2 (grid) on 12AT7 converter tube socket. | .05 Mfd. | 10.7 Mc. | FM | | L7 and L8 Prim. and Sec. of 1st. IF transformer. | Align 1st. IF transformer for maximum reading. |
| 9 (c) | Antenna Post FM (Re-move line ant.) | 270 ohms | 98 Mc. | FM | 98 Mc. | L5 Osc. Coil Slug. | Set Oscillator to dial scale. |
| 10 (c) (d) | | 270 ohms | 98 Mc. | FM | 98 Mc. | L3 Det. Coil Slug | Align det. stage to maximum reading. |



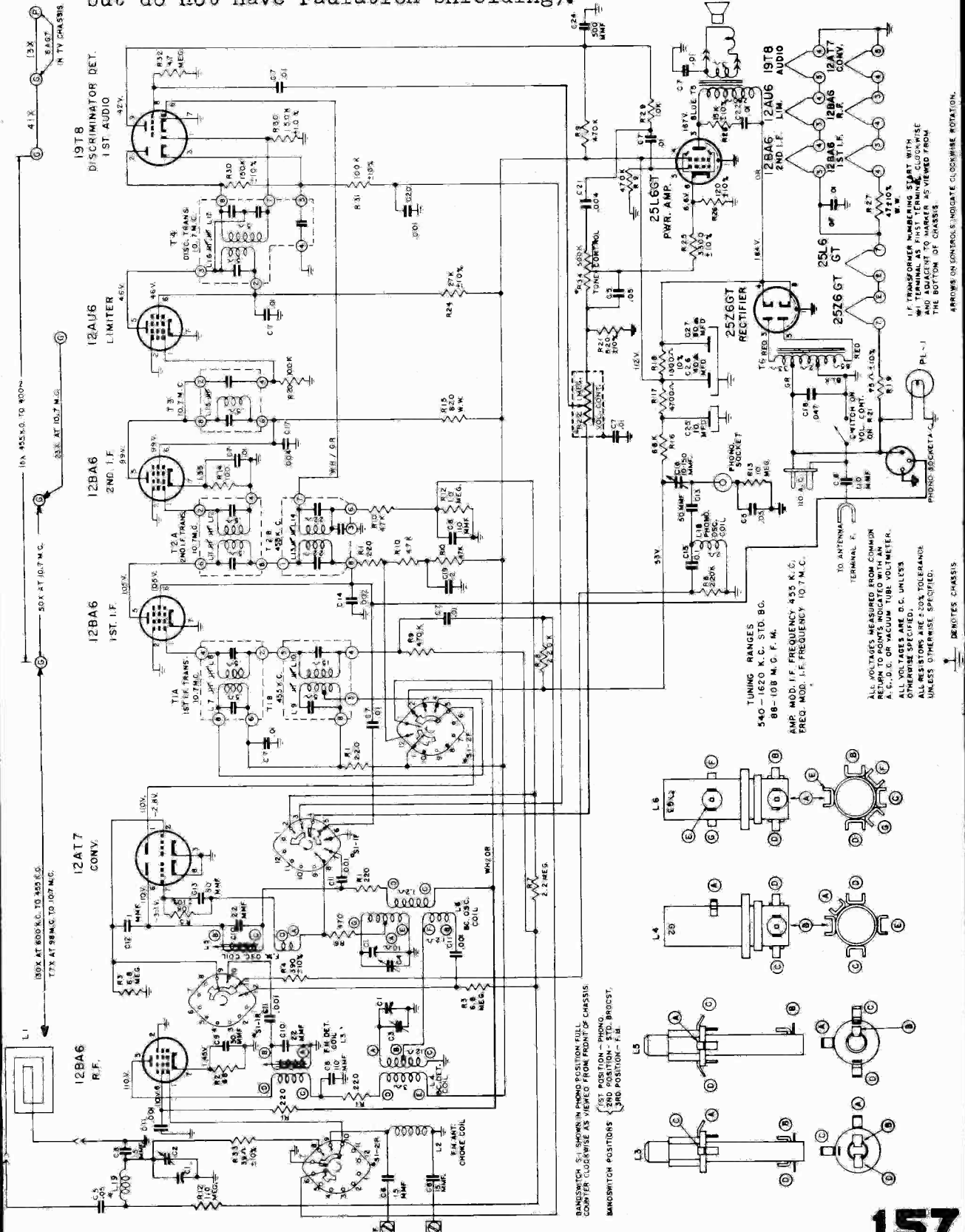
Detail of IF Transformer

TUBE AND TRIMMER LOCATION

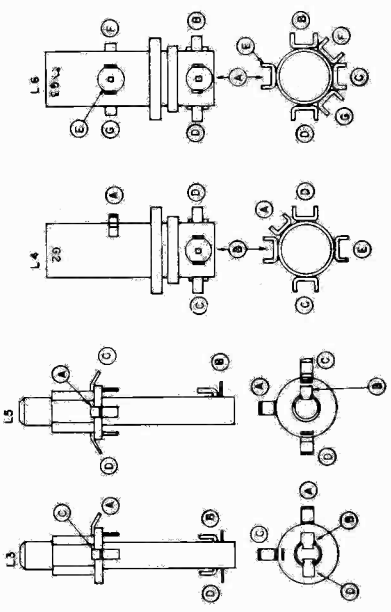
Correct alignment can only be made if the following procedure is followed:
 A vacuum tube voltmeter with an isolation resistor of 2,000,000 ohms in series with the hot lead will serve for FM adjustments. This lead should be shielded.
 An AC output meter connected across the primary or secondary of the output transformer will be satisfactory for all AM adjustments.
 The signal generator output should be kept just high enough to get an indication on the meter.
 (a) Vacuum Tube Voltmeter Lug 7 on discriminator transformer to chassis (half discriminator load).
 (b) Vacuum Tube Voltmeter Lug 5 on discriminator transformer to chassis (full discriminator load).
 (c) Vacuum Tube Voltmeter from Limiter Grid to Chassis.
 (d) Loosen Slugs by applying a hot iron to the cement.

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

ZENITH RADIO CORP. MODEL H880RZ, CHASSIS 8H20
 (Models H880R and H880R-revised are similar to Model H880RZ, but do not have radiation shielding).

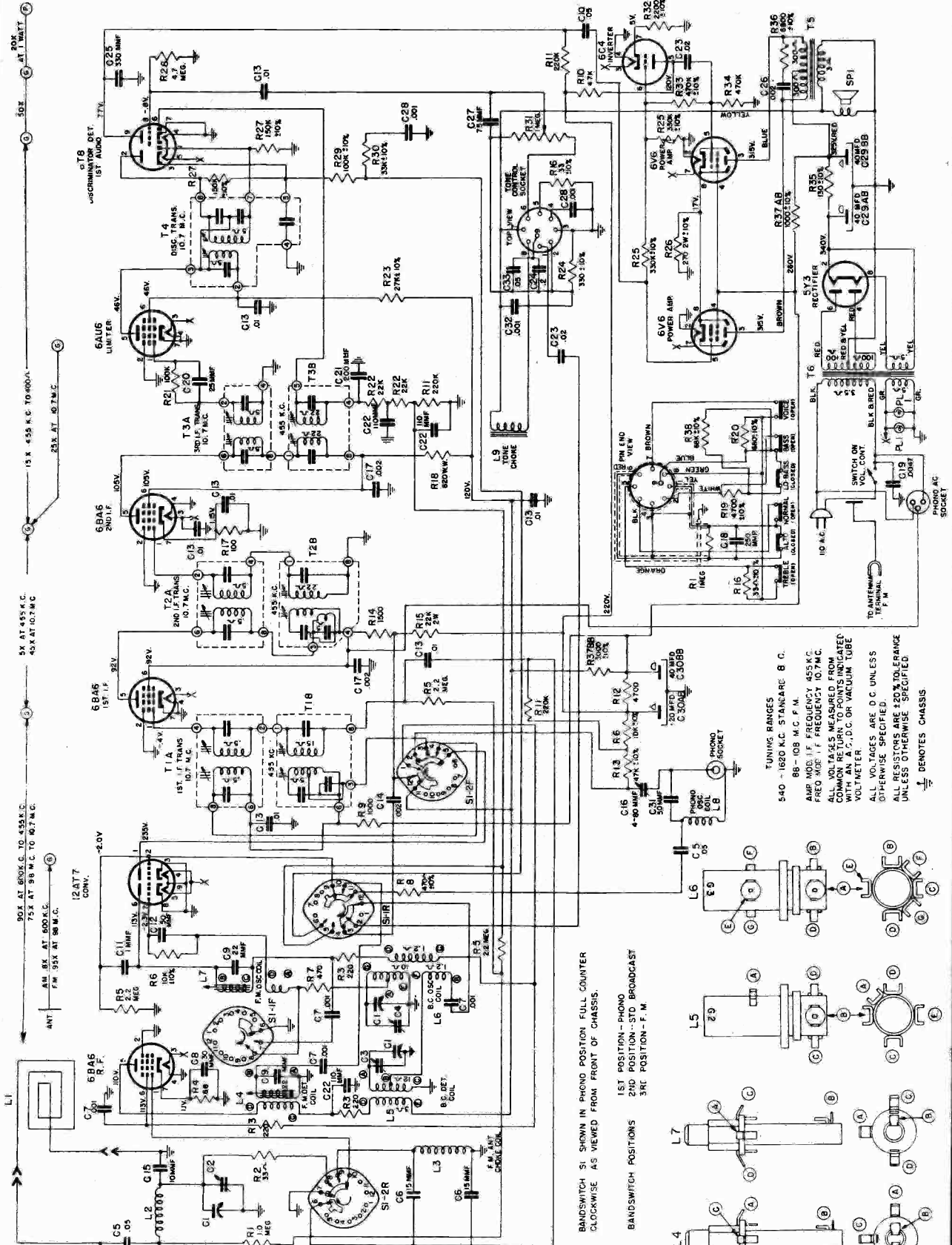


SWITCHES SHOWN IN RADIO POSITION FULL COUNTER CLOCKWISE AS VIEWED FROM FRONT OF CHASSIS
 1ST POSITION - PHONO
 2ND POSITION - STD. BROCAST.
 3RD POSITION - F.M.



MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

ZENITH RADIO CORP. MODELS H1083E, H1086R, H1087R, CHASSIS 10H20



MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

ZENITH RADIO CORP.

COBRA-MATIC RECORD CHANGERS

MODELS S14028, S14029, S14030,

S14031 and S14036

The Zenith Models S-14028, S-14029, S-14030, S-14031 and S-14036 Record Changers are designed to play standard 78, 45 and 33 1/3 RPM records of standard commercial dimensions. With few minor exceptions these five changers are alike electrically.

Features of these changers include playing and automatically changing as many as ten 12" or ten 10" records. Ten inch and twelve inch records of the same type cannot be intermixed.

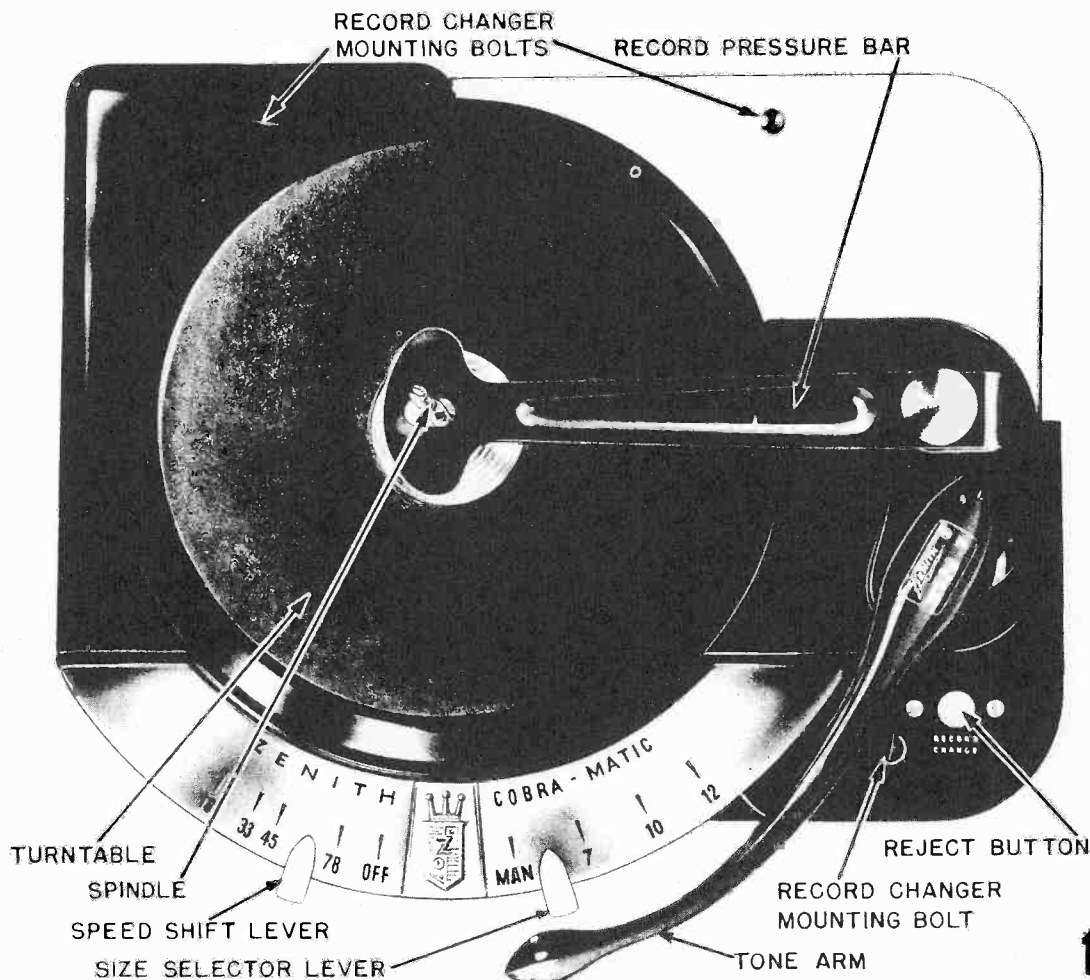
A full stack of 7" 33 1/3 RPM, or a full stack of 7" 45 RPM records (with adapter inserted in the records) can also be played on this changer. This changer does not shut off after the last record, however, all that is required to turn the changer off is to move the speed change lever (18) to OFF position.

LOADING THE RECORD CHANGER

1. Pull straight up on the record pressure arm knob (12) until the record pressure arm clears the spindle. Swing the record pressure arm to the right until pins in pressure arm shaft (14) drop into locating slot on record pressure arm housing (1).

2. Changer will automatically play ten 12" either standard or Long Play, ten 10" either standard or Long Play or ten 7" Long Play or Fine Groove records.

NOTE: Standard, Fine Groove and Long Play records cannot be played in the same stack of records. Speed change lever (18) must be re-set for each type of recording. (Continued on page 160).



MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

ZENITH Record Changer, continued

3. Place records on spindle and lower them to offset shelf. Level records and replace record pressure arm (14) over spindle and lower this until it rests on the top of the record stack.

To play standard 78 RPM recordings:

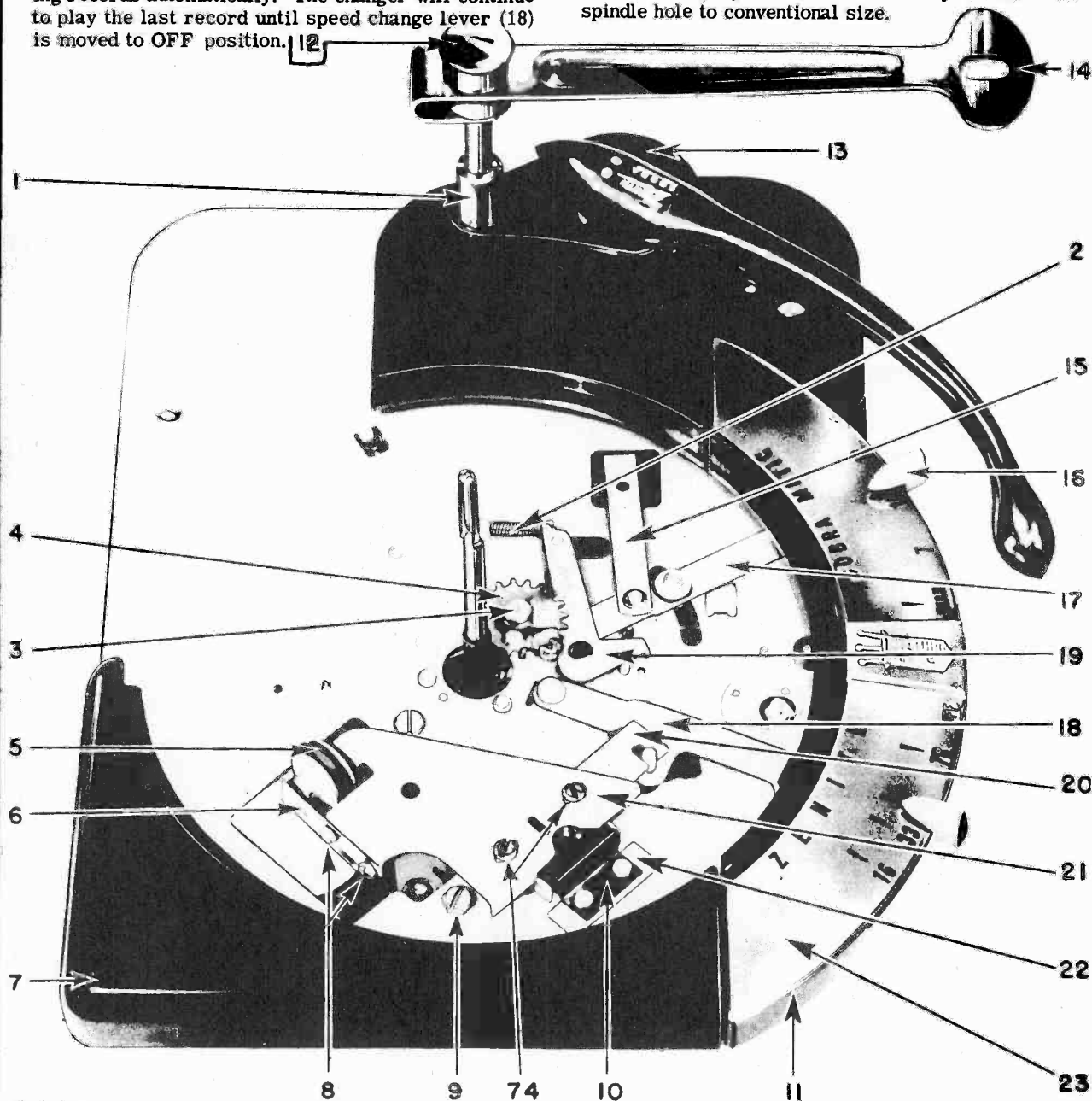
1. Motor speed control lever (18) must be set to 78 position. This will set the record changer to proper speed position and cause the turntable to rotate.
2. Set-up lever (17) must be moved to the size records being played.
3. Place the changer in cycle by depressing reject switch knob (73). The changer will play the remaining records automatically. The changer will continue to play the last record until speed change lever (18) is moved to OFF position.

To play 33 1/3 RPM records:

1. Motor speed change lever (18) must be in 33 1/3 position.
2. Set-up lever (17) should then be moved to either 12", 10" or 7" position depending on the size record being played.

To play Fine Groove (45 RPM) records:

1. Speed change lever (18) should be moved to 45 position and set-up lever (17) should be in 7" position. It must be remembered that these records are manufactured with a 1 1/2" spindle hole so it is essential that a record adapter be inserted into each 45 RPM record to be played. This is necessary to reduce the spindle hole to conventional size.



Record Changer Top View with Turntable Removed

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

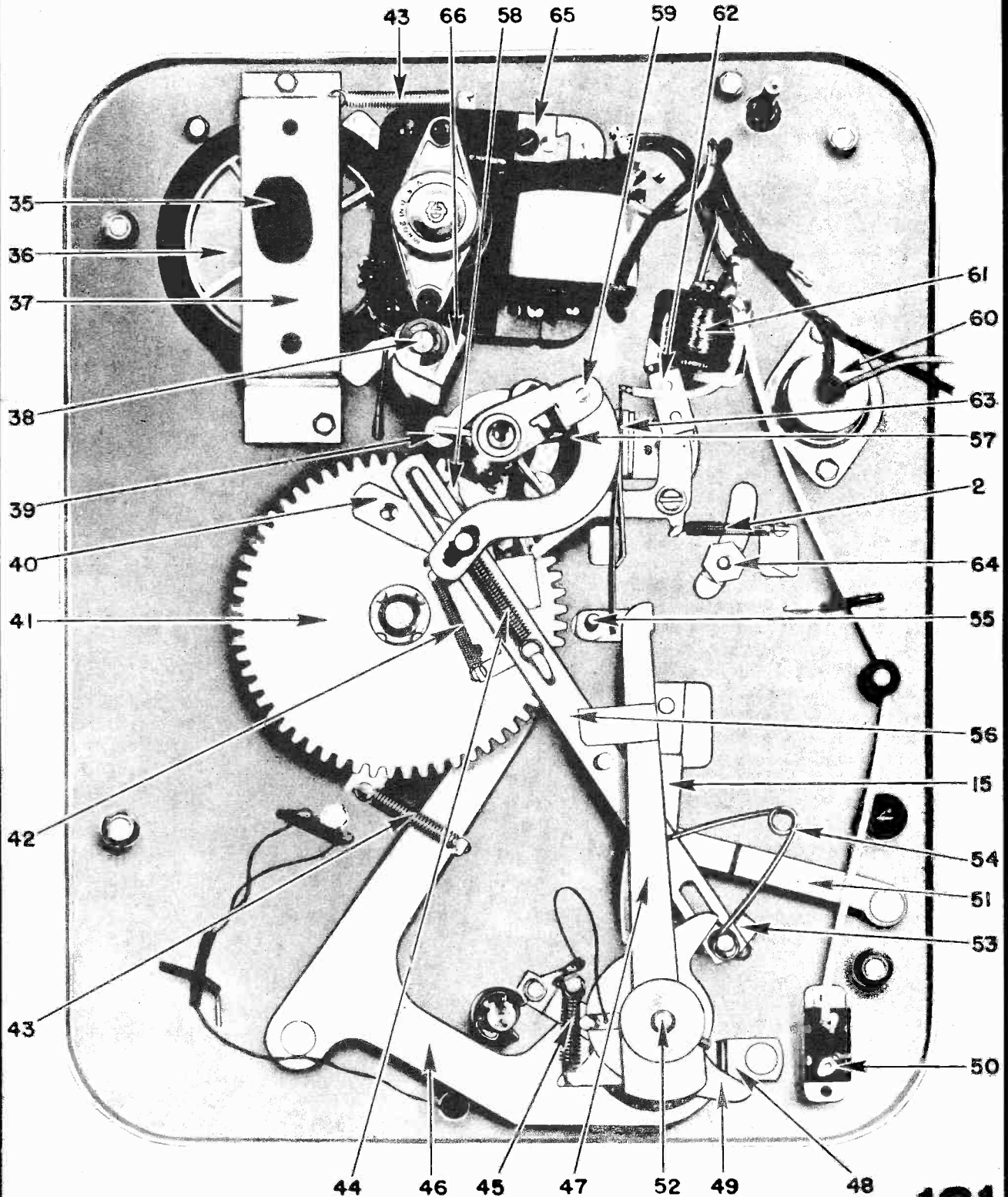
REJECTING

ZENITH Record Changer, continued

To reject a record anytime, while the changer is operating, depress reject switch button (73) and release. This will automatically cause the record changer to go through cycle and begin playing the next record.

STOPPING

To turn off the record changer all that is required is to move the speed shift lever (18) to OFF position.



Record Changer Bottom View

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

ZENITH Record Changer, continued

UNLOADING

Lift the record pressure arm (14) and swing it to the right until the pin on the shaft drops into the locating groove on record pressure arm shaft housing (1). Lift stack of records straight up on spindle.

MANUAL OPERATION

To play single records or home recordings, lift up the record pressure arm and turn it to the right. Place record on spindle and lower to the spindle shelf. Gently push record towards record pressure arm shaft and lower to turntable. Move speed change lever (18) to proper speed for type of record being played and move set-up lever (17) to manual position. Pick up tone arm and place the needle on the lead-in groove of the record.

DESCRIPTION OF CYCLING

The motor shaft contacts drive wheel assembly (36) and causes it to rotate by friction contact with its rubber surface. Drive wheel assembly (36) drives idler wheel (5). The underside of the turntable is in contact with idler wheel (5) and is driven in this manner. Speed of the turntable is controlled by changing the position of the idler wheel (5) on drive wheel (36). When idler wheel is moved to the center of drive wheel (36) it will rotate more slowly than when moved to the outer edge of this drive wheel (36). In this manner the turntable can be driven at any speed from 10 to 85 RPM. Minor adjustments for proper tonal pitch can be made by simply moving speed change lever (18) back and forth to compensate for turntable speed which may vary due to line voltage changes. When reject button (73) is depressed it energizes solenoid (61) which then attracts trip pawl assembly (62). The same thing occurs when the forward movement of the tone arm causes friction lever and weight assembly (47) to contact the copper bronze contact on trip switch assembly (63). When gear segment (58) is released, gear pawl spring (42) causes the gear segment (58) to engage the rotating pinion gear (25) under the turntable thus causing clutch assembly (41) to rotate.

As clutch assembly (41) rotates, tone arm lift lever (46) swings in such a manner that it contacts tone arm lift pin and raises the tone arm. Simultaneously, tone arm link and stud assembly (56) slides towards, and contacts one finger of tone arm lever assembly (49) forcing the tone arm towards the outer edge of the turntable and then on its return swing contacts the other finger of tone arm lever assembly (49) swinging the tone arm back over the records. The position to which it swings the tone arm over the records is determined by the position of record size discriminator (51). There are three steps on the record size discriminator (51) which determines set-down position

for 7", 10" and 12" records. The tone arm lift lever (46) returns and releases brake lever assembly (48) which keeps the tone arm from moving erratically during cycle. Simultaneously, ejector lever and link assembly (59) rotates and this in turn causes spindle shaft (30) to rotate and ejector cam (29) to push the record off the spindle shelf. Operation of the tone arm set-down adjustment can be observed by raising the tone arm so the adjustment mechanism can be viewed.

VELOCITY TRIP

This changer is provided with what is commonly known as a velocity trip rather than a ratchet and positive trip mechanism. A velocity trip depends for the tripping action on the rate of forward motion of the pickup arm with respect to the turntable rotation. The changer will trip only when the tone arm advances more in one revolution of the turntable than the distance between normal grooves in a record. Only records having fast finishing grooves will operate the velocity trip. During the normal playing cycle, friction lever and weight assembly (47) continually moves forward toward the copper bronze contact on trip switch assembly (63).

On normal forward advance, the friction lever and weight assembly (47) is kept from contacting the copper bronze contact by a wiping action from oscillating lever stud assembly (55). The oscillation of oscillating lever and stud assembly is produced by eccentric motion of oscillating gear (4) which is driven by the pinion gear (25) on the lower portion of the turntable. Oscillating gear (4) is mounted off-center so it will describe an eccentric action as it is being driven by the turntable gear. The tone arm moves in towards the center of the record and the repeated action of oscillating lever (55) keeps friction lever and weight assembly (47) from coming in contact with the copper bronze strip on trip switch assembly (63) as the pickup arm moves slowly towards the spindle and lead-in grooves. During the first revolution of the turntable, in the eccentric cycling grooves, the pickup arm advances rapidly and friction lever and weight assembly (47) is moved forward fast enough so that oscillating lever (55) does not halt its progress, therefore, friction lever and weight assembly (47) contacts the copper bronze trip contact on trip switch assembly (63) grounding it and making a complete circuit. This actuates solenoid (61) causing the changer to cycle.

THEORY OF THE COBRA RADIONIC PICKUP

The operation of the Cobra pickup is considerably different from Crystal and Dynamic pickups. These pickups generate audio power, while the Cobra controls power generated by a radio frequency oscillator, detector and audio amplifier. The oscillator operates at a frequency of 2.5 Mc. Modulation is accomplished by changing the energy losses in a tuned circuit. These losses may be represented by an equivalent resistance in series with the reactance of the coil. The ratio of the resistance to the reactance determines the effi-

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

ciency or Q of the coil. The amplitude of the RF voltage developed across this coil by an oscillator will vary with changes in Q .

The grid coil $L1$ and other components of the oscillator are mounted in the oscillator pre-amp chassis, while the plate coil $L2$ is in the needle cartridge with vane and needle assembly. The coil is fixed and has 40 turns of No. 40 wire (approximate DC resistance 2 1/2 ohms). The stainless steel vane, which is in the field of the coil, is spot welded to the osmium-iridium tipped stylus.

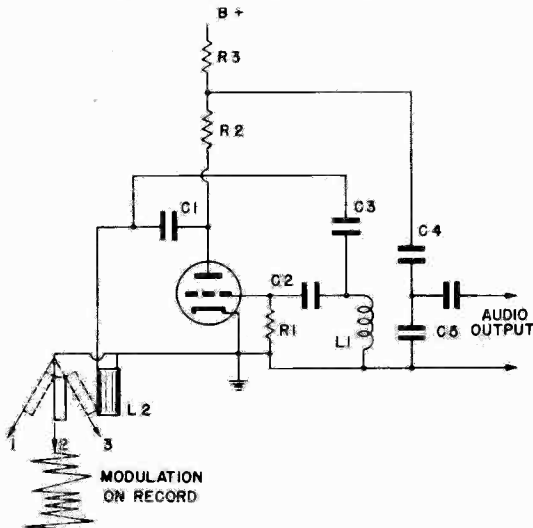
Any movement of the stylus will cause a corresponding movement of the vane. As the stylus and vane follow the modulations in the record, changes in the mutual inductance between the vane and coil occur. In position 2 the vane is at rest, and a constant RF voltage appears across the plate coil. As the vane is set in motion and reaches position 1, it is at its greatest outward swing from the coil, resulting in low mutual inductance, low reflected resistance, higher Q , and a higher RF voltage across the coil. In position 3 it is at its greatest inward swing, resulting in a high mutual inductance, high reflected resistance, lower Q and a

ZENITH Record Changer, continued
lower RF voltage. It can be seen that the amplitude of the RF voltage which appears across the coil will vary with changes in Q , satisfying the condition for amplitude modulation. The position of the vane changes both the Q and L of the coil. Changes in L shift the frequency slightly, and a certain amount of frequency modulation is present, but since there is no frequency discrimination it remains undetected. Since the grid and plate coils are part of a single tuned circuit, any variations of amplitude of the RF voltage brought about by the changes in Q across the plate coil will also appear across the grid of coil $L1$, causing a shift in the average plate current through the plate load resistor across which the audio output voltage is developed. Plate bend detection takes place since only the positive half of the grid swing causes an increase in the average plate current. These changes in the average plate current appear as audio voltage across the plate load resistor.

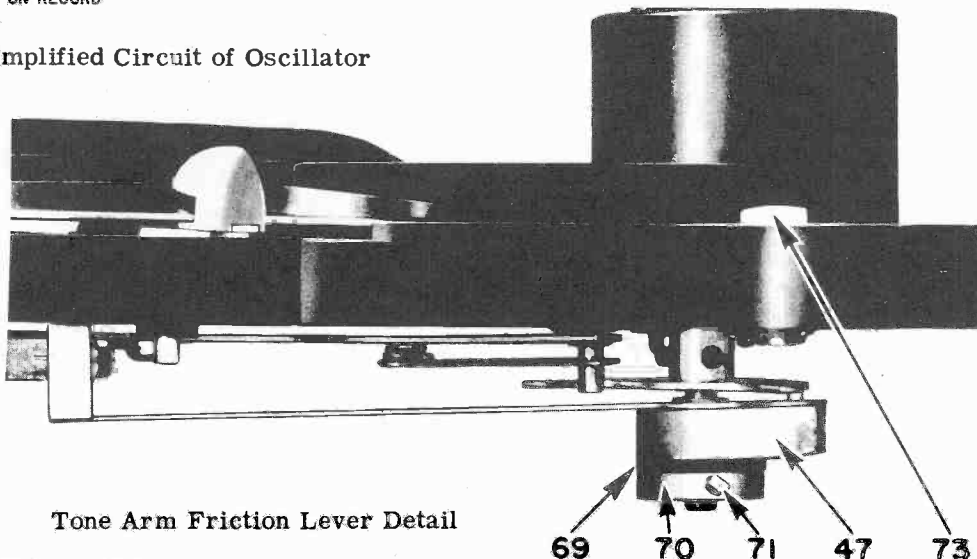
The 2.5 Mc RF voltage and the audio voltage both appear at the plate (pin 6) of the oscillator triode. $R2$, $C4$ and $C5$ filter out the RF voltage allowing only the audio component to the grid (pin 4) of the amplifier triode where it is amplified, fed through a shielded lead to the audio amplifier of the receiver and reproduced by the loud speaker.

SET DOWN ADJUSTMENT

When adjusting the tone arm for proper set-down on the edge of the record, move set-up change lever to 7" position, place a 7" record on the turntable, turn the record changer through cycle by rotating the turntable by hand. Watch closely where the needle point of the Cobra cartridge lands on the record and adjust tone arm set-down adjustment screw (33) until proper landing position is obtained.



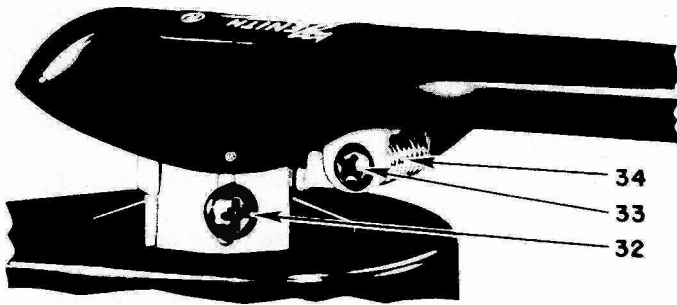
Simplified Circuit of Oscillator



Tone Arm Friction Lever Detail

MANUAL OF 1951 MOST-OFTEN-NEEDED RADIO DIAGRAMS

ZENITH Record Changer, continued



Tone Arm Set-Down & Height Adjustments

TONE ARM HEIGHT ADJUSTMENT

The tone arm height adjustment determines vertical rise of the tone arm. If the tone arm does not rise sufficiently it will not play a full stack of twelve records. On the other hand, if the tone arm raises too high it may hit the records resting on the record shelf. Set the tone arm height adjustment screw (32) so that the needle clears twelve unwarped records on the turntable. The tone arm housing must not hit the under side of the records on the record shelf when the changer is cycled after adjustment.

SLAB HEAD SCREWS

For maximum rigidity many components are locked into position with slab head screws. This type set screw provides a more positive grip. The slab head set screw wrench is available as part number 68-8.

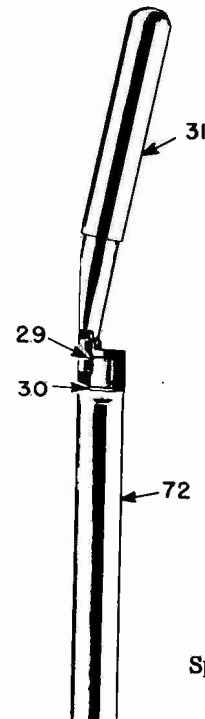
SPEED INDICATOR ADJUSTMENT

It is possible that the speed of the record changer may not conform to the speed stop on escutcheon (23). Proper adjustments can be made in the following manner. Put a stroboscopic disc on the turntable, adjust speed change lever (18) until the turntable is turning at exactly 78 RPM. Stop the record changer by pulling the AC plug, remove the turntable, loosen the two adjusting screws (74) and move speed change lever (18) so that the point on the control knob indexes exactly at the 78 mark on the escutcheon (23). Then re-tighten adjusting screws (74) and replace the turntable. The turntable should now rotate at exactly 78 RPM, however, as a precaution, again check with the stroboscopic disc.

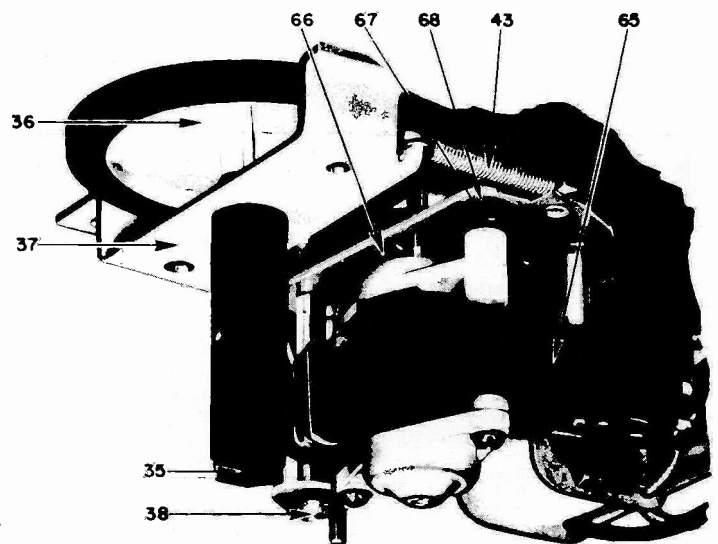
SPINDLE

The spindle on this record changer is composed of five separate parts. Spindle shaft (30) and ejector cam (29) are pressure-fit together and if either breaks, they cannot be replaced since the assembly operation is a machine operation. The spindle housing is composed of two separate portions which once again are pressure-fit together and require a machine operation for assembly. It is possible that spindle cap (31) may be

pulled off spindle assembly (72) and if this does occur, it can easily be replaced by sliding a new spindle cap down over the spindle and then pressing in on the dent portion, which acts as a stop to keep the spindle cap from sliding off spindle (72). If breakage occurs other than loss of the spindle cap (31), the entire spindle assembly (72) must be replaced.



Spindle S-17424



Index

This INDEX lists every radio and television set included in the presently available Supreme Publications "Most-Often-Needed Servicing" manuals. This includes thirteen radio manuals and seven television (TV) manuals. To find the volume and page where the material you need is listed, first look up the make of set. The names of manufacturers are listed alphabetically from Admiral to Zenith. Under each manufacturer, the models of that make are listed numerically in the left column. Corresponding to each model there is an entry in the right column. In this right column, words such as: One, Two, Three, and up to Twelve, refer to the volume number of RADIO Diagram manuals; this number tells what volume is needed in each case. Volume 13, is listed as 1953. Reference to Television Servicing

Information and UHF volumes is made by volume numbers TV1, TV2, through TV7, and UHF1. In each case, the figures following the volume number (-after the dash) tells you on what pages in the volume stated, the material you need will be found. You will find the year and volume number on the cover of every Supreme manual. Just to make sure that this explanation is clear to you, let us try one example. Look up Admiral model 6A1. Here you are referred to Six-12. This means Radio Volume 6 (or 1946 radio diagram manual), page 12. The Introduction, on the page to the left, gives more details.

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HOW TO FIND NEEDED MATERIAL

To find in which SUPREME volume and on what page the material you need is listed, first look up the make of the set. Under each manufacturer, its various models are listed numerically in the left column. Corresponding to each model listed, there is an entry in the right column. In this right column, words such as: One, Two, Three, and up to Twelve, refer to the volume number of RADIO Diagram manuals; this number tells what volume has the needed information. A prefix of 1953- refers to volume Thirteen. Reference to Television Servicing Information volumes is made by volume numbers TV1, TV2, through TV7, and UHF1. In each case, the figure following the volume number (-after the dash) tells you on what page in the volume stated, the material you need will be found.

RADIO

| | | | | |
|--------|----------|--------|--------|------|
| Volume | Thirteen | Twelve | Eleven | Ten |
| Year | 1953 | 1952 | 1951 | 1950 |

| | | | | | |
|--------|------|-------|-------|------|------|
| Volume | Nine | Eight | Seven | Six | Five |
| Year | 1949 | 1948 | 1947 | 1946 | 1942 |

| | | | | | |
|--------|------|-------|------|---------|------|
| Volume | Four | Three | Two | One | UHF1 |
| Year | 1941 | 1940 | 1939 | 1926-38 | 1953 |

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| | | | | | | | |
|------|------|------|------|------|------|------|------|
| Vol. | TV7 | TV6 | TV5 | TV4 | TV3 | TV2 | TV1 |
| Year | 1953 | 1952 | 1951 | 1950 | 1949 | 1948 | 1947 |

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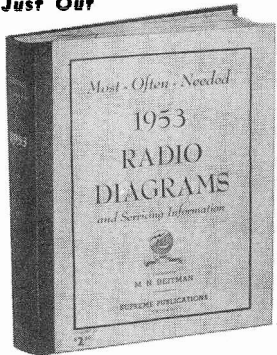
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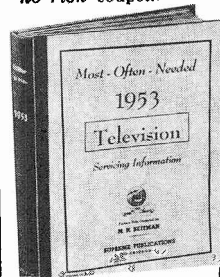


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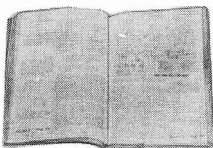
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| GD-41 | Two-53 |
| GD-41-U | Two-53 |
| T-41 | One-174 |
| 42 | Eight-54 |
| S-42 | One-159 |
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| K-43 | One-179 |
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| K-50-P | One-169 |
| H-51 | One-177 |
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| K-53 | One-179 |
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| J-54 | Four-50 |
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| 62 | Nine-40 |
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| K-62 | One-163 |
| A-63 | One-63 |
| F-63 | One-67 |
| GD-63 | Two-55 |
| K-63 | One-181 |
| 64 | Ten-61 |
| 65 | Ten-61 |
| A-65 | One-63 |
| F-65 | One-67 |
| 66 | Ten-61 |
| F-66 | One-67 |
| 67 | Ten-61 |
| E-68 | One-64 |
| J-70 | One-157 |
| H-71 | One-177 |
| J-71 | Four-51 |
| H-73 | Three-37 |

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| H-77 | Three-37 |
| H-78 | Three-37 |
| H-79 | Three-37 |
| YRB 79-1 | Eight-56 |
| YRB 79-2 | Eight-56 |
| J-80 | One-161 |
| E-81 | One-69 |
| A-82 | One-68 |
| A-83 | One-70 |
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| A-85 | One-70 |
| E-86 | One-69 |
| A-87 | One-68 |
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| E-101 | One-71 |
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| 102 | Nine-39 |
| 102W | Nine-39 |
| 103 | Six-53 |
| UHF-103 | UHF1-33 |
| 105 | Six-53 |
| E-105 | One-71 |
| J-105 | Four-52 |
| 106 | Seven-49 |
| E-106 | One-71 |
| 107 | Nine-39 |
| 107W | Nine-39 |
| 110 | Seven-48 |
| 111 | Seven-48 |
| 113 | Nine-42 |
| 114 | Nine-39 |
| 114W | Nine-39 |
| 115 | Nine-39 |
| 115W | Nine-39 |
| LF-115 | Five-57 |
| LF-116 | Five-57 |
| 118 | Nine-41 |
| 119M | Nine-41 |
| 119W | Nine-41 |
| 123 | Ten-55 |
| 124 | Ten-55 |
| 125 | Ten-55 |
| E-126 | One-66 |
| 129 | Ten-54 |
| 131 | Ten-54 |
| S-132 | One-162 |
| 135 | Ten-55 |
| 136 | Ten-55 |
| 140 | Eight-57 |
| 143 | Ten-62 |
| 145 | Ten-56 |
| 150 | Nine-44 |
| 165 | Ten-57 |
| 180 | Eight-58 |
| 186-3A | Ten-53 |
| 200 | Seven-50 |
| 203 | Seven-50 |
| 205 | Seven-50 |
| 210 | Nine-43 |
| 211 | Nine-43 |
| 212 | Nine-43 |
| 218 | Ten-58 |
| 218-H | Ten-59 |
| 219 | Seven-51 |
| 220 | Seven-51 |
| 221 | Seven-51 |
| 226 | Ten-60 |

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| 250 | Seven-53 |
| 254 | Eight-59 |
| 280 | Eight-61 |
| 303 | Seven-54 |
| 321 | Six-49 |
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| 357 | Nine-45 |
| 358 | Nine-45 |
| 376 | Nine-36 |
| 377 | Nine-36 |
| 378 | Nine-36 |
| 400 | Eleven-45 |
| H-400 | Three-39 |
| 401 | Eleven-45 |
| 402 | Eleven-45 |
| 404 | Eleven-46 |
| 405 | Eleven-46 |
| 408 | Eleven-47 |
| 409 | Twelve-55 |
| 410 | Eleven-46 |
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| 411 | Eleven-45 |
| 412 | 1953-44 |
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| 415 | Twelve-58 |
| 416 | Twelve-58 |
| 417A | TV1-63 |
| 422 | Twelve-57 |
| 423 | Twelve-57 |
| 430 | Twelve-58 |
| 500 | Ten-61 |
| GD-500 | Two-56 |
| L-500 | Five-55 |
| 501 | Ten-61 |
| 505 | TV2-75 |
| 505 Clock | Ten-61 |
| 506 | Ten-61 |
| 507 | Ten-61 |
| 508 | Ten-61 |
| 509 | TV3-93 |
| 509 Clock | Ten-61 |
| 510 | TV3-93 |
| 510F | Eleven-48 |
| L-510 | Five-55 |
| 511F | Eleven-48 |
| 512F | Eleven-48 |
| 513F | Eleven-48 |
| 514 | 1953-46 |
| 515F | Eleven-48 |
| 516F | Eleven-48 |
| 517F | Eleven-48 |
| 518F | Eleven-48 |
| 521F | Eleven-48 |
| 522F | Eleven-48 |
| 530 | Ten-61 |
| LB-530 | Four-55 |
| 542 | 1953-46 |
| 543 | 1953-46 |
| 546 | 1953-43 |
| 547 | 1953-43 |
| 548 | 1953-43 |
| 549 | 1953-43 |
| L-550 | Five-55 |
| L-560 | Five-55 |
| 600 | Ten-62 |
| H-600 | Three-40 |
| 601 | Ten-62 |
| H-601 | Three-40 |

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| J-602 | Four-54 |
| 603 | Ten-62 |
| J-603 | Four-54 |
| 604 | Ten-62 |
| 605 | Eleven-49 |
| 606 | Eleven-49 |
| 607 | Twelve-59 |
| 608 | Twelve-59 |
| 610 | Eleven-50 |
| H-610 | Three-40 |
| 611 | Eleven-50 |
| H-611 | Three-40 |
| HJ-612 | Three-43 |
| 614 | 1953-45 |
| 615 | 1953-45 |
| H-634 | Three-42 |
| H-638 | Three-42 |
| H-640 | Three-42 |
| 650 | Ten-57 |
| L-660 | Five-56 |
| 740 | Eleven-51 |
| 741 | Twelve-62 |
| 752 | Eleven-52 |
| 753 | Eleven-52 |
| 754 | Twelve-60 |
| 756 | Twelve-60 |
| 801 | TV1-69 |
| 803 | TV2-63 |
| 805 | TV3-75 |
| 806 | TV3-75 |
| 807 | TV3-75 |
| 809 | TV3-69 |
| 810 | TV3-77 |
| 811 | TV3-77 |
| 814 | TV3-77 |
| 820 | TV4-53 |
| 830 | TV4-53 |
| 835 | TV4-53 |
| 840 | TV4-53 |
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| LFC-1128 | Five-57 |
| LFC-1228 | Five-57 |

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| 7B | One-76 |
| 8A | One-74 |
| 11G | One-75 |
| 12B, 12W | One-72 |
| 501 | One-73 |
| 520, 530 | One-73 |
| 550 | One-73 |
| 750-753 | One-76 |
| 801 | One-74 |
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| 1291 | One-72 |
| 1297 | One-72 |

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| 120 | One-77 |
| 130 | One-77 |
| 140 | One-77 |
| A5003 | One-78 |
| A5004 | One-78 |
| A5010 | One-78 |
| 5091 | One-78 |

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22A5C Seven-55
23A6 Eight-62

GILFILLAN

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66B Eight-62
66PM Eight-64

GOODRICH (B. F.) CO.

R662 Eight-63
R662N Eight-63
92505 Nine-46
92506 Nine-46

W. T. GRANT CO.

500 Seven-56
501 Seven-56

GRAYBAR ELECTRIC

GT-7 One-157
GB-8 One-159
GB-8-A One-160
GT-8 One-161
GB-9 One-163
GC-13 One-157
GC-14 One-161
GB-100 One-175
GB-300 One-165
GB-310 One-167
GB-330 One-176
500, 550 One-172
GB-678 One-174
GB-700 One-177
GB-770 One-177
GB-900 One-177
GB-989 One-162

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see Majestic (old)

GRUNOW

see General House.

HALLICRAFTERS CO.

AT-1 1953-47
AT-2 1953-47
AT-3 1953-47
5R10 Eleven-53
5R11 Eleven-44
5R12 Eleven-44
5R13 Eleven-44
5R14 Eleven-44
5R30A Twelve-63
5R31A Twelve-63
5R32A Twelve-63
5R33A Twelve-63
5R34A Twelve-63
5R35 to 5R39
similar to 5R30A
5R50 Twelve-64
5R51 Twelve-64
5R52 Twelve-64
5T One-101
ATCL-5 1953-48
ATCL-6 1953-48
ATCL-7 1953-48
ATCL-8 1953-48
ATX-11 1953-49
ATX-12 1953-49
ATX-13 1953-49

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S-22-R Two-57
SX-25 Three-44
S-27 Four-56
S-38 Eight-65
S-40A Nine-47
T-54 TV2-75
T-64 TV3-93
S-82 Twelve-66
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EX-306 Eight-66
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509, 510 TV3-93
600 to 602 TV4-61
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E800D see 811
J800D like 860
K800D see 818
L800D TV6-69
810A TV5-63
811 TV5-63
815 TV5-63
818 TV5-63
820 TV5-63
821 TV5-63
822 TV5-63
860 TV5-63
861 TV5-63
870 TV5-63
871 TV5-63
880 TV5-63
890 TV5-63
890A TV5-63
894 TV5-63

Series 900,

similar to 800

1000 uses W1000D

C1000D like 800

E1000D like 17824

K1000D like 20823

M1000D like 17815

N1000D like 17816

P1000D like 17824

Q1000D like 20823

R1000D like 20823

W1000D

Except for

X1000D tuner and

Z1000D pict. tubes

A1100D basically

F1100D similar to

G1100D, 800 chassis

1001 uses F1100D

1002 uses F1100D

1003 uses F1100D

1004 uses F1100D

1005 uses G1100D

1006 uses G1100D

1007 uses F1100D

1008 uses X1000D

1010P TV7-72

1012P TV7-72

1013C TV7-72

1015 uses A1100D

1017 uses A1100D

1018 uses G1100D

1019 uses Z1000D

1021P TV7-72

1022C TV7-72

1025 uses C1000D

1026P TV7-72

1027C TV7-72

Hallcrafters, Cont.

1051P TV7-72
1052P TV7-72
1053P TV7-72
1054P TV7-72
1055C TV7-72
1056C TV7-72
1060C TV7-72
1061C TV7-72
1062C TV7-72
1063C TV7-72
1075 TV7-71

A1100D see W1000D

1200 Series TV7-71

A1200D TV7-71

D1200D TV7-71

F1200D TV7-71

G1200D TV7-71

J1200D TV7-71

K1200D TV7-71

L1200D TV7-71

P1200D TV7-71

R1200D TV7-71

T1200D TV7-71

W1200D TV7-71

X1200D TV7-71

A1300D TV7-71

14808, -A TV6-69

17804C TV6-69

17810C TV6-73

17810M, -MG TV6-73

17811-H TV6-69

17812 TV6-69

17813 TV6-69

17815-H TV6-69

17816 TV6-69

17817 TV6-69

17819 TV6-69

17824 TV6-69

17824A like 17824

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17838 TV6-69

17848 TV6-69

17849 TV6-69

17850 TV6-69

17860-H TV6-69

17861-H TV6-69

17906 like 17824

17908 like 17824

17922 tuner diff.

similar to 17824

17930 to 17934

similar to 17815-H

20823, -B TV6-69

20823C like 20823

20872 TV6-73

20990, 20990S

similar to 860

20994

similar to 860

21923 like 20923

21928 like 20923

21940 like 20923

Sky Buddy One-101

HAMILTON RADIO

see Olympic Radio

HOFFMAN Next Column

HOFFMAN RADIO CORP.

21B116 TV7-78
21B309 TV7-78
21B701 TV7-78
21B907 TV7-78
21M115 TV7-78
21M308 TV7-78
21M700 TV7-78
21M906 TV7-78
21P310 TV7-78
21P702 TV7-78
21P908 TV7-78
24B707 TV6-77
24B708 TV6-77
27M709 TV7-78
100 Six-54
100S Eight-70
101S Six-54
102 Six-54
103 Six-54
107 Seven-60
108S Seven-61
110S Eight-71
113 Eight-72
115 Nine-49
118 Eight-73
119 Eight-74
129 Nine-50
170 to 176 TV5-67
165 Eleven-55
180 TV6-77
183 TV6-77
184 TV6-77
185 TV6-77
187 TV6-77
196 TV7-78
196M TV7-78
196T TV7-78
197 TV7-78
199 TV7-78
A200 Six-54
A202 Eight-74
204 Eleven-55
205 Eleven-55
A300 Eight-70
A301 Six-54
A302 Six-54
A309 Eight-74
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B400 Eight-73
A401 Six-54
A500 Seven-60
A501 Seven-61
B502 Eight-72
B503 Nine-49
B508 Nine-50
B509 Nine-50
B510 Nine-50
B513 Nine-49
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639 TV6-77
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867 TV5-67
868 TV5-67
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878 TV5-67
880 TV6-77
881 TV6-77
882 TV6-77
883 TV6-77
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885 TV6-77
886 TV6-77
887 TV6-77
890 TV5-67
891 TV5-67
892 TV5-67
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950 TV5-67
950A TV5-67
951 TV5-67
951A TV5-67
952 TV5-67
952A TV5-67
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960 TV5-67
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964 TV6-77
965 TV6-77

HOWARD RADIO CO.

12-B Three-46
14ACB Four-58
225 Two-59
240 Two-60
250 Two-59
260 Two-59
275 Two-59
275C Two-59
280 Two-59
300 Three-47
306 Three-48
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400A Two-61
425 Two-61
425A Two-61
430 Two-63
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765 Four-59
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808 Five-61
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901-A Seven-62
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902-A Eight-79
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906-S Eight-75
909-M Eight-77
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6MHR89 Ten-192

L. D. & A., Inc.
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INTERNATIONAL-DETROLA
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43, 44 One-103
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5050 Eleven-56
5057 Eleven-58
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5200 1953-50
5250 1953-50
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LAFAYETTE RADIO
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563 Six-66
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566 Seven-67
567 Seven-67
568 Seven-67
661 Seven-68
6614 Seven-70
6615 Seven-70
6616 Seven-70
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105E TV7-83
105F TV7-83
105L TV7-83
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CT-219 TV4-65
CT-220 TV4-65
CT-221 TV3-99
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CT-301 TV6-83
CT-302 TV6-83
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CT-304 TV6-83
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CT333 TV7-83
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CT341 TV7-83
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5A430 Six-69
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5AK731 Eight-81
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7S450 Six-70
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20 One-81
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R261 Five-18
R419 Two-18
R423 Three-18
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 20PTW2 TV7-87
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HOW TO FIND NEEDED MATERIAL

To find in which SUPREME volume and on what page the material you need is listed, first look up the make of the set. Under each manufacturer, its various models are listed numerically in the left column. Corresponding to each model listed, there is an entry in the right column. In this right column, words such as: One, Two, Three, and up to Twelve, refer to the volume number of RADIO Diagram manuals; this number tells what volume has the needed information. A prefix of 1953- refers to volume Thirteen. Reference to Television Servicing Information volumes is made by volume numbers TV1, TV2, through TV7, and UHF1. In each case, the figure following the volume number (-after the dash) tells you on what page in the volume stated, the material you need will be found.

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 A-T2280 TV7-107
 A-T2281 TV7-107
 A-T2288 TV7-107
 A-T2289 TV7-107
 A-T2292 TV7-107
 A-T2294 TV7-107
 C4608 Nine-82
 L Changer Two-109

PILOT RADIO

B-1 Four-117
 T-1 Four-117
 TP-32 Five-105
 T-121 Three-99
 T-122 Three-99
 173 Five-105
 T-186 Four-117
 T-521 Eight-137
 T-570 Eight-138
 T-601 Eight-140
 T-601 TV1-139
 T-741 Eight-139
 T-1451 Two-111
 T-1452 Two-111
 Pilotuner Eight-140

PONTIAC

984171 Seven-168
 984172 Seven-167
 984247 Nine-144
 984570 Ten-165
 984592 Eleven-139
 984817 1953-145

PRIVAT-EAR CORP.

DL-101 Twelve-106

R. C. A. MFG. CO.

1R81 Twelve-107
 1X Four-118
 1X2 Four-118
 1X51 Twelve-112
 1X52 Twelve-112
 1X53 Twelve-112
 1X54 Twelve-112
 1X55 Twelve-112
 1X56 Twelve-112
 1X57 Twelve-112
 1X591 Twelve-111
 1X592 Twelve-111
 2B400 Twelve-113
 2B401 Twelve-113
 2B402 Twelve-113
 2B403 Twelve-113
 2B404 Twelve-113
 2B405 Twelve-113
 2BX63 1953-95
 2C511 1953-97
 2C521 1953-96
 2ES3 Twelve-114
 2ES31 1953-104
 2ES31E 1953-104
 2ES31Q 1953-104
 2ES38 Twelve-114
 2ES38E 1953-104
 2ES38Q 1953-104
 2R51 1953-98
 2R52 1953-98
 2S7 1953-99
 2S7ED Nine-95
 2T51 TV5-129
 2T60 TV5-129
 2T81 TV5-115
 2US7 Twelve-114
 2X61 1953-100
 2X62 1953-100
 2X621 1953-101
 2XF91 1953-102
 2XF931 1953-102
 2XF932 1953-102
 2XF933 1953-102
 2XF934 1953-102
 2XF935 1953-102
 U2 UHF1-73
 4T101 TV6-125
 4T141 TV6-125
 4X One-156
 4X3 One-156
 4X4 One-156
 R-4 One-157
 5Q5 Three-100
 5Q55 Three-100
 5Q56 Three-100
 5T6 One-158
 5T7 One-158
 5T8 One-158
 5X5 Three-104
 P-5 Five-106
 TRK-5 Three-101
 TT-5 Three-101
 6Q4 Two-113
 6Q7 Three-100
 6Q8 Two-115
 6QU Two-112
 6T53 TV5-115
 6T54 TV5-115
 6T64 TV5-115
 6T65 TV5-115

R. C. A. (Continued)

6T71 TV5-115
 6T72 TV5-123
 6T74 TV5-115
 6T75 TV5-115
 6T76 TV5-115
 6T84 TV5-115
 6T86 TV5-115
 6T87 TV5-115
 6X2 Five-107
 BX6 Ten-119
 R-6 One-157
 7Q4 Two-113
 7QK4 Two-113
 7Q51X Ten-120
 7T103, -B TV6-121
 7T104, -B TV6-121
 7T111B TV6-121
 7T112, -B TV6-121
 7T122, -B TV6-121
 7T123, -B TV6-121
 7T124 TV6-121
 7T125B TV6-121
 7T132 TV6-121
 7T143 TV6-121
 R-7 One-159
 R-7-A One-160
 8B41 Ten-122
 8B42 Ten-122
 8B43 Ten-122
 8BX5 Nine-93
 8BX5 Ten-121
 8BX6 Nine-94
 8BX54 Ten-121
 8BX55 Ten-121
 8F43 Nine-95
 8R71 Nine-97
 8R72 Nine-97
 8R74 Nine-97
 8R75 Nine-97
 8R76 Nine-97
 8TS30 TV2-113
 8T241 TV3-151
 8T243 TV3-151
 8T244 TV3-151
 8T270 TV4-99
 8TC270 TV4-99
 8TC271 TV4-99
 8V7 Nine-96
 8V90 Nine-102
 8V91 Nine-102
 8V112 Nine-108
 8V151 Nine-99
 8X53 Nine-104
 8X521 Nine-103
 8X522 Nine-103
 8X541 Nine-105
 8X542 Nine-105
 8X544 to 8X547
 see set 8X541
 8X547 Nine-105
 8X681 Nine-107
 8X682 Nine-107
 R-8 One-161
 U-8 Three-104
 9BX5 Ten-121
 9BX56 Ten-123
 9EY3 Ten-127
 9EY31 Ten-127
 9EY32 Ten-127
 9EY35 Ten-127

R. C. A. (Continued)

9EY36 Ten-127
 9TX-21 Two-114
 9TX-22 Two-114
 9TX-23 Two-114
 9TX-31 Two-116
 9TX-32 Two-116
 9TX-33 Two-116
 9TX-50 Three-103
 9T57 TV5-115
 9T77 TV5-115
 9T79 TV5-115
 9T89 TV5-115
 9T105 TV6-121
 9T126 TV6-121
 9T128 TV6-121
 9T147 TV6-121
 9T246 TV4-113B
 9T256 TV5-123
 9T270 TV4-99
 9TC272 TV4-99
 9TC275 TV4-99
 9TW309 TV4-123
 9W106 Ten-131
 9X561 Ten-124
 9X562 Ten-124
 9X571 Ten-125
 9X572 Ten-125
 9X641 Ten-125
 9X642 Ten-125
 9X651 Ten-126
 9X652 Ten-126
 9Y7 Ten-128
 9Y51 Ten-129
 9Y510 and 9Y511 similar to 9Y51
 R-9 One-159
 U-9 Two-117
 10X Four-120
 BP-10 Four-119
 R-10 One-162
 U-10 Three-105
 R-11 One-163
 12X Four-121
 12X2 Four-121
 R-12 One-161
 U-12 Two-118
 13K One-164
 14X Four-122
 15-BP Four-123
 15-E 1953-104
 15-E1 1953-104
 15X Four-124
 Radiola 16 One-165
 16K Four-125
 16T2 Four-125
 16T3 Four-125
 16T152 TV6-138
 16X-1 Four-124
 16X-2 Four-124
 16X-3 Four-124
 16X-4 Four-127
 16X-11 Four-128
 16X-13 Four-128
 Radiola 17 One-166
 17K Four-129
 17K174K uses KCS-66D
 17T150 and 17T151 similar to 17T153
 17T153 TV6-131

R. C. A. (Continued)

17T154 same as 17T153
 17T155 TV6-131
 17T160 TV6-131
 17T162 same as 17T153
 17T163 uses 17QP4 similar to 17T153
 17T172 same as 17T153
 17T172K uses KCS-66D
 17T173 same as 17T153
 17T173K same as 17T153
 17T174 TV6-131
 17T200 TV7-125
 17T201 TV7-125
 17T202 TV7-125
 17T211 TV7-125
 17T220 TV7-125
 17T250DE TV7-133
 17T261DE TV7-133
 R-17-M One-171
 Radiola 18 One-167
 19K Four-131
 U-20 Three-106
 21T159 same as 21T176
 21T165 same as 21T176
 21T166DE uses KCS-68F
 21T175DE uses KCS-68F
 21T176 TV6-139
 21T177 TV6-139
 21T178-179 TV6-139
 21T197DE uses KCS-68H
 21T207 uses KCS-72A
 21T207G uses KCS-72A
 21T208 TV7-125
 21T217 TV7-125
 21T218 TV7-125
 21T227 TV7-125
 21T228 TV7-125
 21T229 TV7-125
 21T242 TV7-125
 21T244 TV7-125
 OSC-22 Three-107
 Q22A Six-92
 25BP Five-109
 25X Five-108
 KRK-25 UHF1-71
 U-25 Two-119
 26BP Five-110
 26X-1 Five-111
 26X-3 Five-111
 U-26 Two-119
 28T Five-112
 28X Five-113
 KCS-28C TV4-113B
 R-28-P One-169
 29K Five-114
 29K-2 Five-114
 KCS-29 TV4-99
 Q32 Six-92
 R-32 One-168
 34X Five-115
 KCS-34B TV6-123

R. C. A. (Continued)

KCS-34C TV5-123
 M-34 One-169
 R-35 One-170
 KCS-38 TV4-113B
 KCS-38C TV5-123
 R-39 One-170
 40X-30 Two-123
 40X-30 Three-107
 40X-31 Two-123
 40X-31 Three-107
 40X-50 Two-123
 BT-40 Two-122
 KCS-40 TV5-123
 KCS-40A TV5-123
 KCS-40B TV5-123
 U-40 Three-106
 BK-41 Three-108
 BT-41 Three-108
 KCS-41 TV5-123
 BT-42 Three-109
 CV-42 Six-97 also in Eight-143
 KCS-42A TV5-123
 KCS-43 TV5-123
 R-43 One-171
 44 One-172
 45-EY-1 Eleven-105
 45-EY-2 Eleven-106
 45-EY-3 Eleven-105
 45-EY-4 Twelve-115
 45-EY-15 Eleven-105
 45-EY-26 Twelve-115
 45W10 Eleven-109
 45Y1 Three-110
 45X2 Three-110
 45X-3 Four-130
 45X-4 Four-130
 45X-5 Two-124
 45X-6 Two-124
 45X11 Three-110
 45X12 Three-110
 45X13 Three-110
 45X-16 Four-130
 45X-17 Four-130
 45X-18 Four-132
 45X-111 Two-124
 45X-112 Two-124
 45X-113 Two-124
 CV45 Seven-117
 KCS-45 TV5-129
 KCS-45A TV5-129
 RE-45 One-168
 46 One-172
 46X-1 Two-125
 46X-2 Two-125
 46X-3 Two-125
 46X-11 Two-125
 46X-12 Two-125
 46X-13 Two-125
 46X-21 Two-126
 46X-23 Two-126
 46X-24 Two-126
 KCS-46 TV5-129
 Radiola 47 One-173
 KCS-47 TV5-115
 KCS-47A TV5-115
 KCS-47AT TV5-115
 KCS-47B TV6-121

R. C. A. (Continued)

KCS-47C TV6-121
 KCS-47D TV6-121
 KCS-47E TV6-138
 KCS-47F TV6-121
 KCS-47G TV6-121
 KCS-47GF-2 TV6-121
 KCS-47T TV5-115
 Radiola 48 One-174
 KCS-48 TV5-115
 KCS-48A TV6-121
 KCS-49 TV5-115
 KCS-49B,-C TV6-121
 B-50 Five-116
 K-50 Two-127
 M-50 Two-128
 O-50 Three-111
 R-50 One-175
 U-50 Two-130
 52E Six-94
 52HE Six-94
 R-52 One-168
 54B1 Six-95
 54B1-N Six-95
 54B2 Six-95
 54B3 Six-95
 54B5 Eight-142
 55AU Six-96
 55F Six-97
 55U Six-96
 55X Five-118
 BP-55 Two-122
 BX55 Ten-130
 R-55 One-175
 T-55 Two-127
 56X Six-98
 56X2 Six-98
 56X3 Six-98
 56X5 Six-99
 56X10 Six-99
 56X11 Six-100
 BP-56 Two-122
 R-56 Five-118
 BX57 Eleven-107
 RE-57 One-170
 58AV Six-101
 58V Six-101
 59AV1 Six-103
 59V1 Six-103
 Radiola 60 One-176
 K-60 Three-113
 KCS-60 TV5-115
 KCS-60A TV6-121
 M-60 Three-112
 R-60 Three-113
 61 TV6-125
 61-1 Six-98
 61-2 Six-98
 61-3 Six-98
 61-5 Six-99
 61-6 Six-105
 61-7 Six-105
 61-10 Six-99
 KCS-62 TV6-125
 63E Eight-141
 63EM Eight-141
 64F1 Seven-117
 64F2 Seven-117
 64F3 Seven-117
 65AU Seven-118
 65BK9 Eight-145

R. C. A. (Continued)

65F Eight-143
 65U Seven-118
 65X1 Seven-126
 65X2 Seven-126
 66-1 Seven-119
 66BX Seven-120
 66E Seven-122
 66X1 Seven-121
 66X2 Seven-121
 66X3 Seven-121
 66X4 Seven-121
 66X9 Seven-121
 66X11 Eight-144
 66X12 Eight-144
 66X13 Eight-144
 66X14 Eight-144
 66X15 Eight-144
 KCS-66 TV6-131
 KCS-66A TV6-131
 KCS-66C uses 17QP4 similar to KCS-66
 KCS-66D uses 17CP4 similar to KCS-66
 67AV1 Seven-123
 67V1 Seven-123
 68R1 Eight-146
 68R2 Eight-146
 68R3,-4 Eight-146
 KCS-68C TV6-139
 KCS-68E same as KCS-68C
 KCS-68F similar to KCS-68C
 KCS-68H combination similar to KCS-68C
 KCS-70 UHF1-67
 M-70 Two-129
 M-70 Three-114
 U70 UHF1-67
 KCS-72 TV7-125
 KCS-72A TV7-125
 KCS-72D-1 TV7-125
 KCS-72D-2 TV7-125
 KCS-74 TV7-133
 RE-75 One-168
 75X11 Nine-196
 75X12 Nine-196
 77U Nine-101
 77V1 Nine-96
 KCS-79 UHF1-73
 Radiola 80 One-177
 K-80 Three-115
 T-80 Two-131
 K-81 Three-115
 Radiola 82 One-177
 BP-85 Two-122
 Radiola 86 One-177
 94BK2 One-175
 94BT2 One-175
 96K2 One-178
 96T3 One-178
 96T-4 Two-132
 96T-5 Two-132
 96T-6 Two-132
 96X-1 Two-133
 96X-2 Two-133
 96X-3 Two-133
 96X-11 Two-133
 96X-12 Two-133
 96X-13 Two-133
 96X-14 Two-133

R. C. A. (Continued)

97E One-178
 97KG One-178
 97T One-178
 98K-2 Two-135
 98T Two-135
 98T-2 Two-134
 R-100 One-179
 T100
 see RCA 9T246
 V-100 Four-133
 A-101 Eleven-109
 R-101 One-179
 V-101 Four-133
 V-102 Four-134
 K-105 Three-116
 V-105 Five-120
 A106 Ten-131
 A-108 Eleven-109
 110 One-179
 110-K Four-135
 111 One-179
 111-K Four-137
 U-111 One-180
 114 One-180
 115 One-179
 120 One-181
 T120 TV5-123
 RK-121C Nine-99
 T121 TV5-123
 U-121 Two-136
 RS-123D Nine-99
 U-123 Two-136
 TC124 TV5-123
 TC125 TV5-123
 RS-126 Seven-122
 RS-127 Eight-141
 TC127 TV5-123
 U-127E Two-136
 TA128 TV5-123
 TA129 TV5-123
 RS-132 Ten-127
 RS-132F Eleven-105
 RS-132H Eleven-105
 RS-136 Eleven-105
 RS-136A Eleven-105
 RS-138 Eleven-106
 RS-138A Eleven-106
 RS-138L Twelve-115
 RS-139A 1953-104
 RS-140 Twelve-115
 RS-142 Twelve-114
 RS-142 1953-104
 RS-142A 1953-104
 RP-190 Eleven-111
 T164 TV5-123
 TC165 TV5-123
 TC166 TV5-123
 TC167 TV5-123
 RP-168 Ten-133
 TC168 TV5-123
 TA169 TV5-123
 RP-178 Nine-111
 V-215 Five-121
 V-219 Five-121
 V-221 Five-121
 V-225 Five-121
 RC-341 One-180
 RC-348H Two-136
 RC-348J Two-136
 RC-348L Two-136

R. C. A. (Continued)

RC-351A One-178
 RC-351B One-178
 RC-352D Two-134
 RC-357J Two-128
 RC-357K Three-112
 RC-386A Two-135
 RC-386B Two-119
 RC-390 One-175
 RC-394 Two-129
 RC-396 Three-100
 RC-399 Two-132
 RC-400 Two-133
 RC-403 Two-114
 RC-404A Three-104
 RC-405 Two-116
 RC-405C, D Two-123
 RC-406 Three-104
 RC-408 Two-122
 RC-408A Three-109
 B-411 Eleven-108
 RC-414 Two-112
 RC-414A Three-100
 RC-414B Two-115
 RC-414C Two-130
 RC-415 Three-113
 RC-415A Three-115
 RC-415C Three-115
 RC-416A Two-131
 RC-418 Two-127
 RC-418A Two-127
 RC-418B Three-105
 RC-421 Two-136
 RC-425A Two-118
 RC-435 Three-103
 RC-436 Two-123
 RC-441A Two-113
 RC-449 Three-108
 RC-455 Two-122
 RC-456 Two-125
 RC-457 Three-110
 RC-457D Two-124
 RC-457E Four-130
 RC-459 Two-125
 RC-459 Three-110
 RC-459J, K Two-124
 RC-459M Four-130
 RC-461 Two-126
 RC-461B Two-126
 RC-462 Four-124
 RC-464 Five-119
 RC-465 Five-106
 RC-476 Three-116
 RC-477 Three-100
 RC-478A-B Two-113
 RC-482B, C Two-117
 RC-497 Two-127
 RC-498 Three-106
 RC-498A Three-106
 500 Five-119
 501 Five-119
 RC-507 Six-92
 RC-509A, C Four-125
 RC-512 Four-129
 RC-512A Four-131
 RC-513 Four-135
 RC-513A Four-137
 515 Five-117
 516 Five-123
 517 Five-123
 RC-517 Four-133
 RC-517C Five-120

R. C. A. (Continued)

RC-517F Five-126
 RC-517J Five-125
 RC-524 Four-134
 526 Five-124
 527 Five-124
 RC-527 Four-123
 RC-527D Five-109
 RC-540 Four-133
 RC-541C Four-132
 RC-544 Four-119
 X551 Eleven-110
 X552 Eleven-110
 RC-559 Five-110
 R-560-P Five-126
 RC-564 Five-121
 R-566-P Five-125
 RC-569 Five-112
 RC-570 Five-114
 RC-589 Six-95
 RC-594D Six-105
 PX600 Twelve-116
 RC-604 Six-101
 RC-605 Six-103
 RC-606 Seven-123
 RC-608 Eight-146
 610V1 TV1-141
 610V2 TV1-141
 612V1 TV1-145
 612V3 TV1-145
 RC-613A Nine-109
 RC-615 Nine-96
 RC-616 Nine-108
 RC-616A Nine-102
 RC-616H Nine-102
 RC-618 Nine-102
 RC-618A Nine-102
 RC-622 Ten-131
 630TS TV1-153
 710V2 Nine-109
 810K, 810T One-182
 811K One-183
 AR-925 One-168
 RC-1000 Four-128
 RC-1000C Five-117
 RS-1000 Eight-143
 RC-1001 Four-120
 1001B Four-121
 RC-1001C Five-123
 RC-1001D Four-122
 RC-1001E Five-115
 RC-1001E Five-124
 R. R. 1001 Seven-117
 RS-1001 Four-120
 RC-1002 Five-113
 RC-1003 Four-118
 RC-1003 Five-108
 RC-1003C Five-118
 RC-1004E Six-97
 also in Seven-119
 and in Eight-143
 RC-1004H Five-116
 RC-1011 Six-98
 RC-1013 Five-107
 RC-1014 Five-111
 RC-1017 Six-96
 RC-1017A Seven-118
 RC-1017A
 Twelve-114
 RC-1020 Five-109
 RC-1020B Five-106
 1022A Four-121

R. C. A. (Continued)

RC-1022 Five-115
 RC-1023 Six-99
 RC-1023A Six-100
 RC-1034 Seven-126
 RC-1037 Seven-117
 RC-1037B Nine-95
 RC-1038 Seven-121
 RC-1040 Seven-120
 RC-1040C Nine-94
 RC-1045 Eight-145
 RC-1046 Eight-144
 RC-1046A Eight-144
 RC-1046B Eight-144
 RC-1047 Eight-142
 RC-1050 Nine-106
 RC-1055D Ten-120
 RC-1057A Nine-101
 RC-1057B Ten-128
 RC-1059 Nine-93
 RC-1059A Ten-121
 RC-1059B, -C Ten-121
 RC-1060 Nine-97
 RC-1060A Nine-97
 RC-1061 Nine-107
 RC-1064 Nine-104
 RC-1065 Nine-105
 RC-1065A Nine-105
 RC-1065J Nine-105
 RC-1065K Nine-105
 RC-1065L Nine-105
 RC-1065M Nine-105
 RC-1066 Nine-103
 RC-1066A Nine-103
 RC-1068 Ten-123
 RC-1069, -A, Ten-122
 -B
 RC-1077 Ten-129
 RC-1079, -A Ten-125
 RC-1079B, -C Ten-124
 RC-1079K
 Twelve-111
 RC-1079L
 Twelve-111
 RC-1080, -A Ten-125
 RC-1080C 1953-100
 RC-1080D 1953-100
 RC-1082 Ten-119
 RC-1085, -A Ten-126
 RC-1085B 1953-101
 RC-1088 Ten-130
 RC-1088A
 Eleven-107
 RC-1088C
 Eleven-107
 RC-1089B
 Eleven-110
 RC-1089C
 Eleven-110
 RC-1096 Eleven-109
 RC-1098, -A
 Eleven-108
 RC-1102, -A, -B, -C
 Twelve-107
 RC-1104 Twelve-112
 RC-1104-1
 Twelve-112
 RC-1104A
 Twelve-112
 RC-1104A-1
 Twelve-112

R. C. A. (Continued)

RC-1104B
 Twelve-112
 RC-1104B-1
 Twelve-112
 RC-1104C, -D, -E,
 Twelve-112
 RC-1110 Twelve-116
 RC-1114 Twelve-113
 RC-1115 1953-95
 RC-1117D 1953-99
 RC-1118 1953-97
 RC-1119 1953-98
 RC-1120 1953-96
 RC-1120A 1953-96
 RC-1120B 1953-96
 RC-1120C 1953-96
 RC-1121 1953-102
 RC-1121A 1953-102
 930409 1953-105
 960001-1 Six-106
 960001-2 Six-106
 960001-3 Six-106

RADIO WIRE TV
 see Lafayette Radio

RADIONIC EQUIP. CO.
 6W Seven-125

RAYTHEON TV

UHF Tuner UHF1-76
 12AX22 TV4-23
 16AY28 TV5-135
 16AY211 TV5-135
 17AY21 TV5-135
 17AY24 TV5-135
 17T1 TV7-136
 17T2 TV7-136
 20AY21 TV6-143
 21T1 TV7-136
 21T2 TV7-136
 M-1101 TV4-23
 C-1102 TV4-23
 M-1611A TV5-135
 M-1612A TV5-135
 M-1613A TV5-135
 C-1614A TV5-135
 C-1615A TV5-135
 C-1616A TV5-135
 RC-1618A TV5-135
 RC-1619A TV5-135
 M-1711A TV5-135
 M-1712A TV5-135
 M-1713A TV5-135
 C-1714A TV5-135
 C-1715A TV5-135
 C-1716A TV5-135
 RC-1718A TV5-135
 RC-1719A TV5-135
 M-1733A TV7-136
 M-1734A TV7-136
 C-1735A TV7-136
 C-1736A TV7-136
 C-2001A TV6-143
 C-2002A TV6-143
 C-2005A TV6-143
 C-2006A TV6-143
 M-2007A TV6-143
 M-2008A TV6-143
 M-2107A TV7-136

RAYTHEON (Cont.)

C-2108A TV7-136
 C-2109A TV7-136
 C-2110A TV7-136
 C-2111A TV7-136
 C-2112A to C2118A
 similar to 20AY21

REGAL ELECTRONICS

1049 Eight-148

REGENCY (I. D. E. A.)

RC-600 UHF1-28

RME

200 UHF1-25

SCOTT RADIO

800-B Seven-127

SEARS, ROEBUCK

1 Ten-147
 2 Ten-147
 4 Eleven-119
 5 Twelve-118
 6 Twelve-118
 10 Twelve-117
 11 Twelve-117
 13 Twelve-132
 14 Twelve-132
 18 Ten-145
 20 Ten-145
 25 Twelve-120
 27 Twelve-120
 69 Eleven-123
 R-101 Four-139
 R-111 Four-139
 153-16 TV7-147
 163-16 TV7-147
 167-16 All use
 185-16 } 549, 101
 186-19 } chassis
 215 Eleven-120
 217 and 218
 same as 215
 225 Eleven-122
 1017 Twelve-119
 1018 same as 1017
 1032 Twelve-121
 1035 Twelve-121
 1035A Twelve-121
 1040 Twelve-121
 1045 Twelve-121
 1058 Twelve-122
 1059 Twelve-122
 1062 Twelve-122
 1063 Twelve-122
 1117-17 } Air King
 1130-17 } 100-700
 1132-17 TV7-147
 1141-20 } Air King
 1145-20 } type
 1162-17 } 100-700
 1168-17 TV7-147
 1172-17 } Air King
 1173-20 } 100-700
 1175-21 TV7-147

Sears (Continued)

1181-20 uses type
 Air King 100-700
 1182-21 TV7-147
 1183-21 } Air King
 1188-20 } 100-700
 1189-21 TV7-147
 1191-17 uses type
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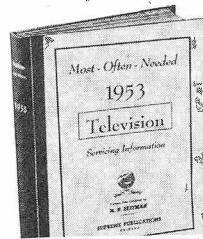
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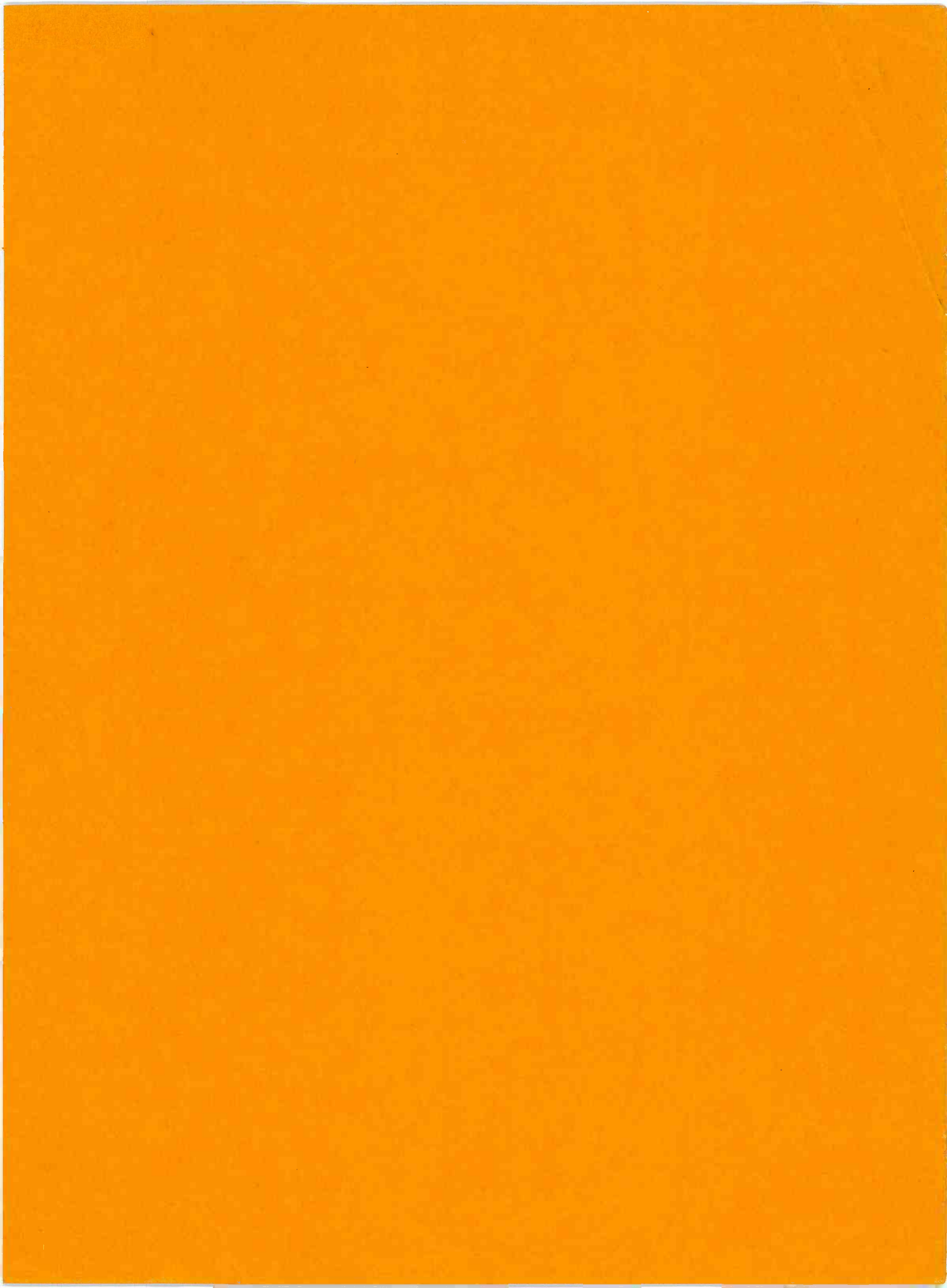
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