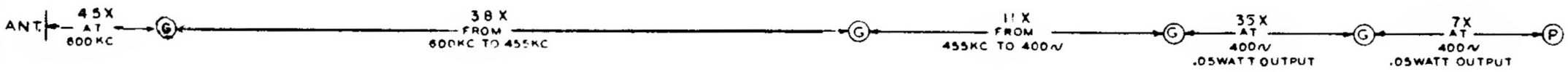
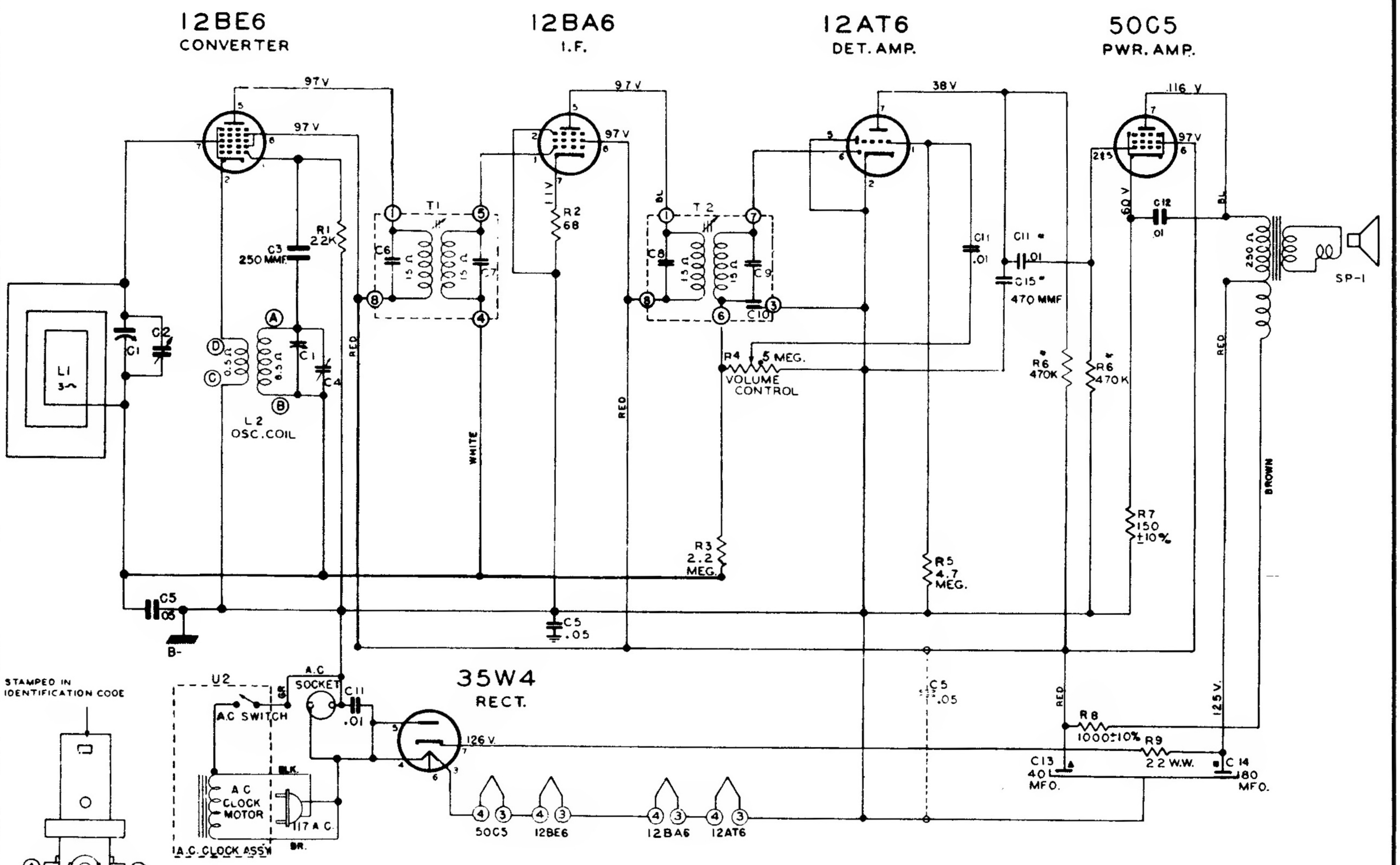
Zenith Radio Corp. MODEL J514 CHASSIS 5J03





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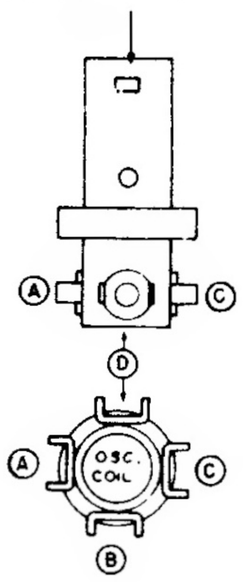


ALL VOLTAGES MEASURED FROM COMMON RETURN TO POINTS INDICATED WITH AN A.C., D.C. OR VACUUM TUBE VOLTMETER

ALL VOLTAGES ARE D.C UNLESS OTHERWISE SPECIFIED

ALL RESISTORS ±20% TOLERANCE UNLESS OTHERWISE SPECIFIED

USE ONLY ZENITH NON-INDUCTIVE ELECTROLYTIC CONDENSERS FOR REPLACEMENT.

IF ANY OTHER TYPE OF ELECTROLYTIC IS USED, IT WILL BE NECESSARY TO ADD C5 SHOWN IN DOTTED LINES.

I.F. TRANSFORMER NUMBERING STARTS WITH #1 TERMINAL, AS FIRST TERMINAL CLOCKWISE AND ADJACENT TO MARKER AS VIEWED FROM BOTTOM OF CHASSIS.

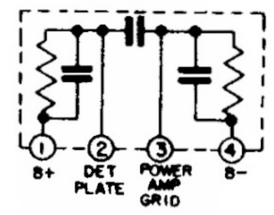
I.F. FREQUENCY 455KC.

TUNING RANGE
535 —— 1620 K.C.

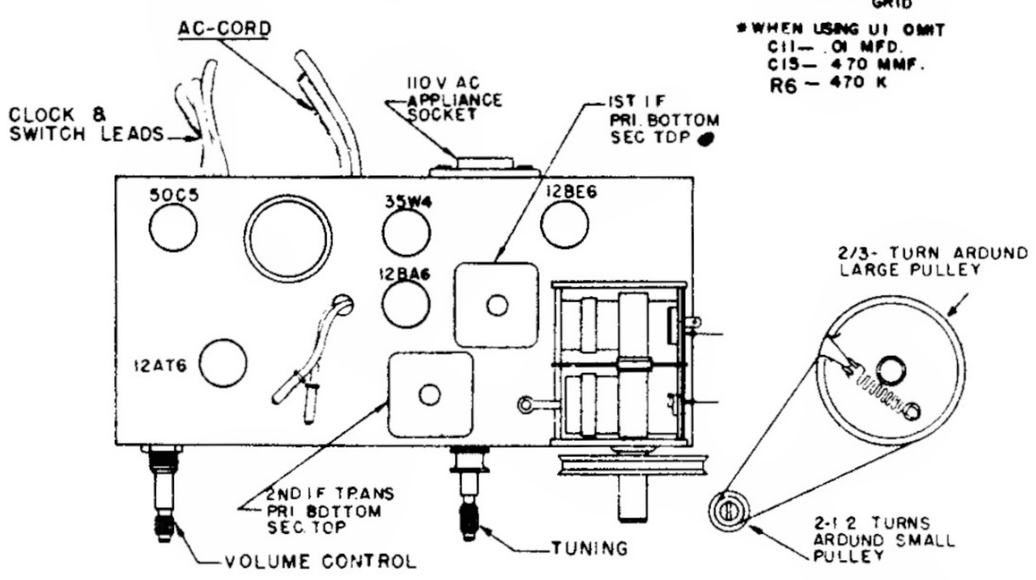
DENOTES CHASSIS

DENOTES COMMON RETURN B-

* U1 (105-27)



*WHEN USING U1 OMIT
C11— .01 MFD.
C15— 470 MMF.
R6 — 470 K



To remove the clock from the cabinet proceed as follows:

1. Remove the three 6/32 hex nuts that fasten the rear clock cover to the clock.
2. Slide the rear clock cover off the time set control shaft.
3. Remove the three hex washer head screws which mount the clock in cabinet.
4. Next unsolder the three-wire cable from the clock motor and switch. Be certain not to tear out the solder terminals from the clock motor or switch.

ALIGNMENT PROCEDURE

OPERATION	CONNECT OSCILLATOR TO	DUMMY ANTENNA	INPUT SIG. FREQUENCY	SET DIAL AT	TRIMMERS	PURPOSE
1	Converter Grid	.5 Mfd.	455 Kc.	600 Kc.	Adjust Primary & Secondary Slugs.	For I. F. Alignment
2	One Turn Loop Coupled Loosely to Wave Magnet	---	1600 Kc.	1600 Kc.	C-3	Set Oscillator to Dial Scale
3		---	1400 Kc.	1400 Kc.	C-2	Align Antenna Stage