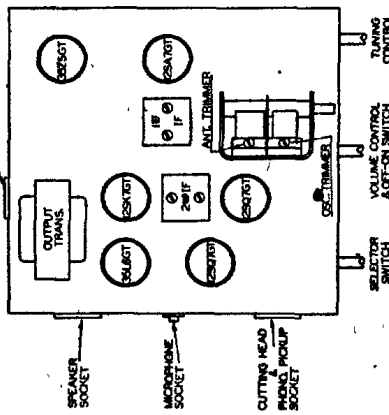


MODEL TR-640

SELECTOR SWITCH CONTACTS	
POSITION	CONTACTS CLOSED
RADIO #1	1-4 6-8 9-10
PHONO #2	1-4 6-7-8 9-11
RADIO RECORDING #3	2-5 6-8-11 9-10
MIKE RECORDING #4	2-3 6-7-10-11 8-9

TUBE AND TRIMMER LOCATION
110-125 VOLTS 60 CYCLE AC ONLY



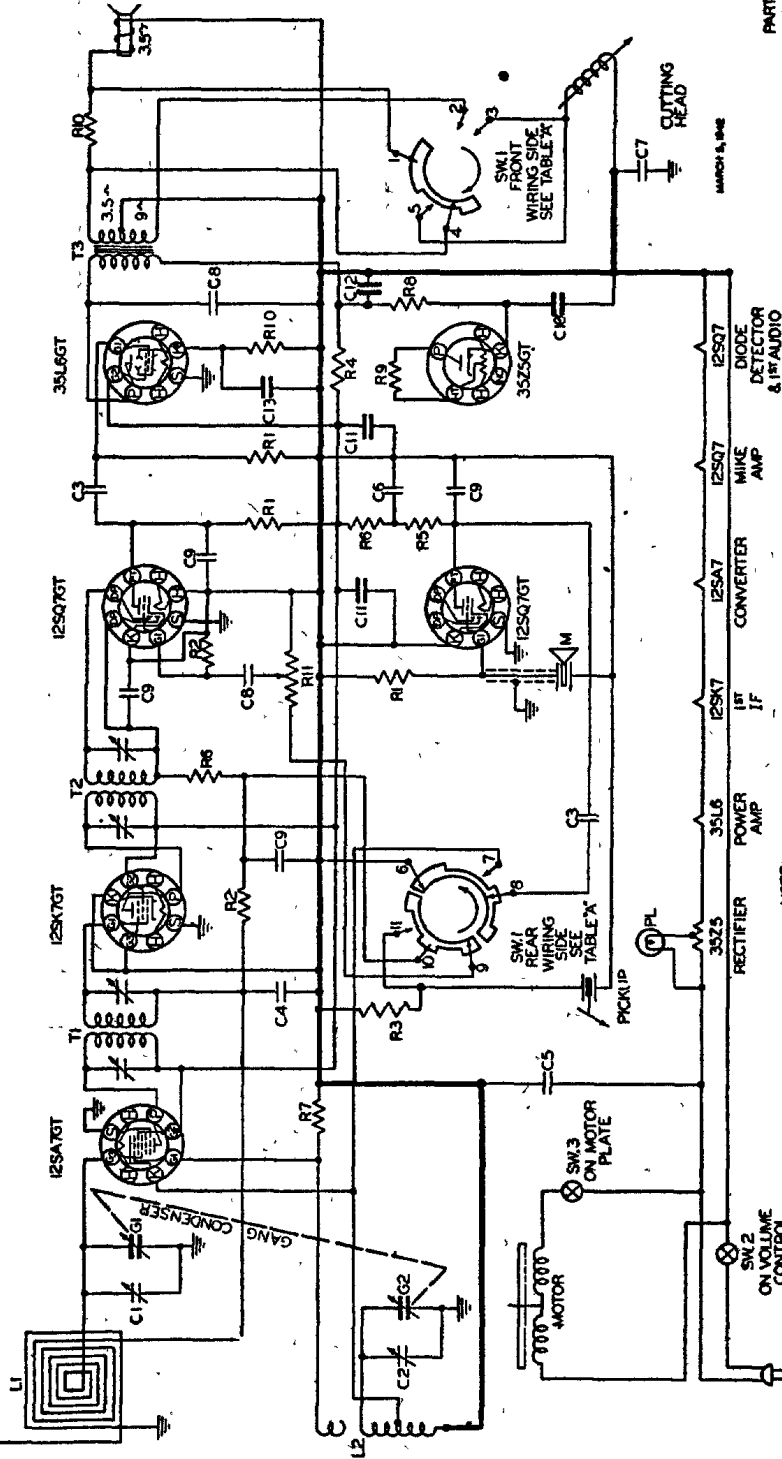
728-3

PART NO.	SCHEMATIC LOCATION	DESCRIPTION
3-6	R1	1MEG - 1/4W - 20% - RESISTOR
3-2	R2	200M " " " "
3-2	R3	200M " " " "
3-5	R4	2000 " " " "
3-5	R5	250M " " " "
3-4	R6	50M " " " "
3-4	R7	25M " " " "
3-29	R7	25M " " " "
3-11	R8	500 " " " "
3-3/3	R9	500 " " " "
3-20	R10	100 " " " "
3-310	R11	1MEG VOLUME CONTROL
6-17	C3	.002-600V PAPER CONDENSER
6-12	C4	.05 - 200V " " " "
6-14	C5	.05 - 400V " " " "
6-14	C6	.25 - 200V " " " "
6-30	C6	.25 - 200V " " " "
6-32	C7	.25 - 400V. " " " "
6-3	C8	.01 " " " " " "
8-8	C9	.0001-MOLDED MICA " " " "
7-304	C10	20MF D ELECTROLYTIC 150W.V.
	C11	40 " " " " " "
	C12	10 " " " " " "
7-308	C13	10 " " " " 35W.V.
	G1	ANT SECTION-GANG CONDENSER
10-301	C2	OSC " " " " " "
	C1	ANT. TUNER ON " " " "
	C2	OSC " " " " " "
14-302	SW1	SELECTOR SWITCH
	SW2	POWER SWITCH ON VOL. CONTROL
	SW3	MOTOR " " MOTOR PLATE
16-39	T1	INPUT IF. TRANSFORMER 45KC.
16-40	T2	OUTPUT " " " " " "
12-300	T3	AUDIO OUTPUT " " " " ON CHASSIS
4-3-305	S	6" P.M. SPEAKER (UNUSABLE)
		PICKUP & ARM
		CUTTING HEAD & ARM
MOTOR PLATE		117V.-60-AC MOTOR & TURNABLE
M		CRYSTAL MICROPHONE

generator frequency to 1720KC, and with tuning condenser still at minimum, adjust oscillator trimmer till the 1720KC signal is tuned in. Next remove generator leads from set and connect both to a transmitting loop. This loop can be made with 2 turns of wire about 6 inches in diameter and placed about one foot away from the loop antenna of the receiver. Adjust generator frequency to 1400KC. Turn tuning condenser until the signal is tuned in and adjust antenna trimmer until a maximum reading is noted. 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 so as to insure proper alignment at the lower frequency end of the dial.

Remove chassis from cabinet for alignment. A signal generator is required having the following frequencies: 456KC, 1400KC, 1720KC. Also an output meter of some type.

First Step: Connect the generator lead through a .1 mfd. condenser to the terminal lug next to the Antenna trimmer on top of the tuning condenser. The ground lead from the generator, must be connected to the floating ground buss underneath the chassis. Adjust generator to 456KC and adjust IF trimmer screws until a maximum reading is noted on the output meter which has been connected across the speaker. The tuning condenser should be turned out to complete minimum capacity when aligning the IF. With generator lead still connected to antenna trimmer terminal, adjust



NOTE:-
HEAVY BLACK LINE DENOTES
FLOATING GROUND BUSS

110-125V 60~AC CURRENT ONLY