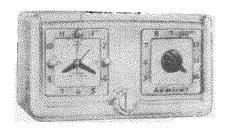
MODELS 5L21, 5L5 5L23, Ch. 5L2



#### TO REMOVE CLOCK FROM CABINET

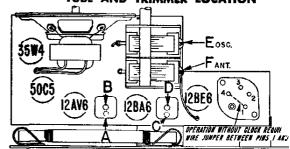
(Radio chassis need not be removed when removing clock)

- 1. Remove the back from radio cabinet.
- Remove the clock plug from the socket on top of the radio chassis, by removing screw from top of p'ug and gently prying plug out from socket.
- 3. Remove the 2 nuts which hold the clock back cover to the clock.
- 4. Pull the clock out through the front of the cabinet.

# OPERATING RADIO WHEN CLOCK IS REMOVED FROM CABINET

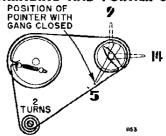
If the radio must be operated without the clock, a wire jumper must be connected between contacts 1 and 4 on socket M2 to complete the circuit.

## TUBE AND TRIMMER LOCATION



Adjustments A and C made from underside of chassis.

#### DIAL STRINGING AND POINTER SETTING



Dial stringing and pointer with solid lines shown w. relosed. Dashed line pointer positions (1400 KC and % shown when tuning condenser is tuned to generator signate.

### ALIGNMENT PROCEDURE

- Connect a wire jumper between contacts 1 and 4 on clock socket (M2) as shown in illustration.
- Turn receiver volume control full on (fully clockwise).
- Use an isolation transformer if available, otherwise connect a .1 mfd. condenser in series with low side of signal generator and connect to chassis.

Caution: Do not connect a ground wire directly to chassis.

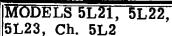
- Connect output meter across speaker voice coil.
- Use lowest output setting of signal generator capable oproducing adequate output meter indication and proceed in the following sequence.
- Repeat adjustments to insure good results.

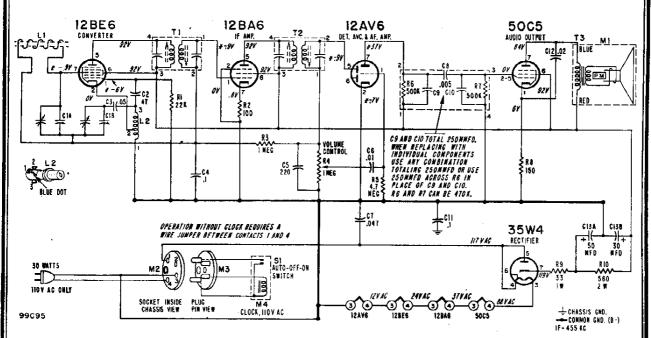
Step	Dummy Antenne in Series with Signal Generator	Connection of Signal Generator (High Side)	Signal Generator Frequency	Receiver Gang Setting	Trimmer Description	Trimmer Designation	Type of Adjustmen
1	250 mmfd. condenser	Antenna stator of tuning condenser	455 KC	Gang fully open	2nd IF 1st IF	*A, B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

Mount and set dial pointer to horizontal position with tuning condenser tuned to 1400 KC generator signal; see Plustration below.

3	Loop of several turns of wire, or place genera- tor lead close to re- ceiver loop for adequate signal pickup.	No actual connection (signal by radiation)	1400 KC	Tune in generator signal	Antenna	F	Maximum output
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\*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 the 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.





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

## **VOLTAGE DATA**

Voltages shown on schematic diagram

- All readings made between tube socket terminals and B minus (negative lead of electrolytic condenser C13).
   Measured on 117 Volt 60 Cycle AC line.
- Volume control minimum; dial turned to low frequency end.
- Voltages measured with Vacuum Tube Voltmeter.

RESISTORS			COIL, TRANSFORMERS, ETC.			CABINET PARTS		
Symbol			ool Description	Pα	urt No.		Part No	
Rl	22.000 ohms, ½ watt 60B 8-22	3 L1	Rod Antenna & Cabine	e t	1			
R2 R3	100 ohms, 1/2 watt 60B 8-10	1	Eack	69C 14	43-1	Bezel, Tuning Dial (Frame) Copper Bronze finish 23A	107.1	
R4	1 megohm, ½ watt 60B 8-10	5 L2	Coil, Oscillator Transformer, 1st IF	69A 52	2-4	Cabinet, Plastic		
7.7	trol75B 1-46		Transformer, 1st IF	72B 2E	8-7	Ebony (5L21)34D	43-1	
R5	4.7 megohms, 1/2 watt 60B 8-47	s   13	Transformer, Output	725 20 99 8 21	8-7	Mahogany (5L22) 34D Ivory (5L23) 34D	43-2	
§R6	500,000 ohms, 1/4 watt	M1	Speaker (4" PM) and			Ivory (5L23) 34D	43-3	
§R7	500,000 ohms, 1/4 watt		Output Trans.	78B 65	5-2	Grille, Speaker (plastic) 36A	. 22	
R8 R9	150 ohms, 1/2 wait 60B 8-15	l Si	Switch, Auto-Off-On (p	art	1	Knob	CC 00	
Rio	33 ohms, 1 watt 50B 28-3 560 ohms, 2 watt 50B 20-5	e,	of M4)	91C <b>6</b> -	-14	Volume, Ebony	55-28	
	500 OMMB, 2 WGIL	۰.			- 1	Volume, Ivory 33D	55.20	
	CONDENSERS	ŀ	MISCELLANEOUS	PARTS	- 1	Tuning, Ebony 32D	55-24	
		Descr	ription	Po	urt No.	Tuning, Maroon 330	55-23	
Symbol		No. I .	tet, Tuning Shait			Tuning, Ivory 33D	55-26	
C1A C1B	290 mmid. max., Ant.   Gang 681	on Carto	n and Fillers	44R 21	14	Washer, Felt (for tuning knobs) 5A	4.18	
CIB	(Dial drum spotwelded to gang)		p, for Line Cord	11A 9-	4			
C2	47 mmid. ceramic 65C 6-79	[ Clip,	IF Transformer mtg.	72B 28	8-10 l			
C3	.05 mfd. 400 volts, paper 64B 1-22	Comp	pression Ring (for pointer).	19A 31	1-2	CLOCK PARTS		
C4	.1 mid, 200 volts, paper64B 1-30	Drum	Cord (30" length needed) Dial Pointer	50A 1-	.3	M2 Socket, Clock, 4 contact 87A		
C5 C6	220 mfd, ceramic 65C 6-80	Grom	met, Rubber (Gang mig.)	1/A 2/	19			
C7	.01 mfd, 400 volts, paper64B 1-25	Line (	Cord and Plug	89A 1-	4	M3 Plug, Clock, 4 pin 89B Shell and Insulator for	22-5	
₹Č́8	.047 mfd, 400 volts, paper 65A 13-5 .005 mfd, 450 volts	- i Münu	ıal		i	plug M388B	22.3	
C9	(	Cus	stomer Instructions	4IA 18	8-45	M4 Clock, Complete	22-0	
	See Schematic		et, Tubo Jain type	077.04	ا 🔒	60 cycle, for 51.21.		
CII	.1 mfd, 200 volts, paper 64B 1-30	1 %	vith grounding strap	0/A 49	4-2	5L22, 5L23 91C	6-1	
C12 C13A	.02 mfd, 400 volts, paper64B 1-24 50 mfd, 150 volts )	l Plate.	. Pointer Support	15A 49	99	Bezel, Clock (Frame) Copper Bronze finish 91C		
	30 mfd, 150 volts   Elect67A 22-1	Pointe	er. Dial	25 A 46	0.9	Copper Bronze finish 91C	6-10	
	of couplate (part #63A5-4). Repl	Sleev	e, for pointer shaft	27.A 12	24	Motor Assembly		
with .	exact duplicate or individual o	TCE   SIGEA	e, tuning (Brass)	27A 15	57	for 110 V. 60 cycles 91C		
ponent	is. Note that numbers 1, 2, 3, 4,		d Nut (for mtg. pointer (ft sleeve)	919 10	A 20 E0	Glass, Window 91C Knob, Clock	6-13	
scheme	atic correspond to lead num		g. Dial Cord Tension	198 1.	5	Off-Auto-On 91C	6.10	
printed	d on face of couplate.	Wash	ner, "C" (for pointer drum)	4A 4-	š	Time set. Alarm set. 91C	6-12	
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