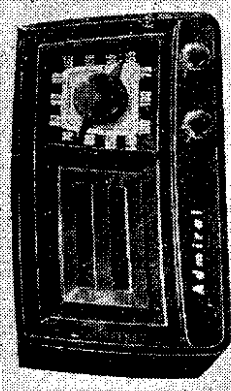


MODELS 5J21, 5J22, 5J23, Ch. 5J2

VOLTAGE DATA

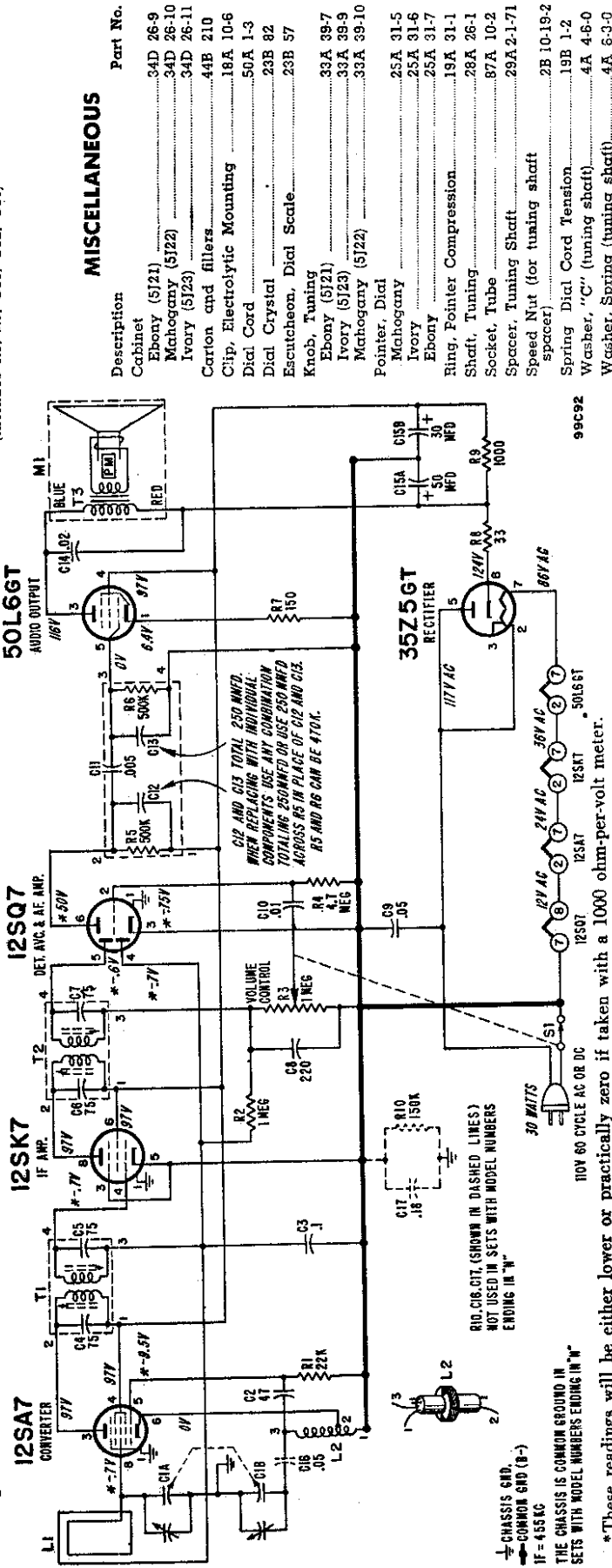
Voltages shown on schematic diagram.

- 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.



COILS, TRANSFORMERS, Etc.

- L1 Antenna, Loop 69C 60 (mounted on cardboard back)
- L2 Coil, Oscillator 69A 20-2
- T1 Transformer, 1st I.F. 72B 50
- T2 Transformer, 2nd I.F. 72B 51
- T3 Speaker (5" PM) and Output Transformer 98A 4
- S1 Switch, On-Off 78B 26-1
- †Couplate (includes R5, R6, C11, C12, C13) Part of R3 63A 5-4



MISCELLANEOUS

- | Description | Part No. |
|-------------------------------------|------------|
| Cabinet | 34D 26-9 |
| Ebony (5J21) | 34D 26-10 |
| Mahogany (5J22) | 34D 26-11 |
| Ivory (5J23) | 44B 210 |
| Carton and fillers | 18A 10-6 |
| Clip, Electrolytic Mounting | 50A 1-3 |
| Dial Cord | 23B 82 |
| Dial Crystal | 23B 57 |
| Escutcheon, Dial Scale | 33A 39-7 |
| Knob, Tuning | 33A 39-9 |
| Ebony (5J21) | 33A 39-10 |
| Ivory (5J23) | 25A 31-5 |
| Mahogany (5J22) | 25A 31-6 |
| Pointer, Dial | 25A 31-7 |
| Mahogany | 19A 31-1 |
| Ring, Pointer Compression | 28A 26-1 |
| Shaft, Tuning | 87A 10-2 |
| Socket, Tube | 29A 2-1-71 |
| Speed Nut (for tuning shaft spacer) | 2B 10-19-2 |
| Spring Dial Cord Tension | 19B 1-2 |
| Washer, "C" (tuning shaft) | 4A 46-0 |
| Washer, Spring (tuning shaft) | 4A 63-0 |

- CONDENSERS**
- C8 220 mmfd., ceramic 65C 6-80
 - C9 .05 mfd., 400 volts, paper 64B 1-22
 - C10 .01 mfd., 400 volts, paper 64B 1-25
 - †C11 .005 mfd., 400 volts
 - †C12 } See schematic
 - †C13 }
 - C14 .02 mfd., 400 volts, paper 64B 1-24
 - C15a 50 mfd., 150 volts elect 67A 10
 - C15b 30 mfd., 150 volts
 - C16 .05 mfd., 400 volts, paper 64B 1-22
 - C17 .18 mfd., 200 volts, paper 64A 2-2
- (C16, 17 not used in sets with model numbers ending in "N".)
- †Part of couplate (part 63A 5-4). Replace with exact duplicate or individual components. Note that numbers 1, 2, 3, 4, on schematic correspond to couplate numbers printed on face of couplate 63A 5-4.

- RESISTORS**
- | Symbol | Description | Part No. |
|--------|---|-----------|
| R1 | 22,000 ohms, ½ watt | 60B 8-223 |
| R2 | 1 megohm, ½ watt | 60B 8-105 |
| R3 | 1 megohm, Volume Control and On-Off switch S1 | 75B 1-25 |
| R4 | 4.7 megohms, ½ watt | 60B 8-475 |
| †R5 | 500,000 ohms, ½ watt | 60B 8-151 |
| R6 | 500,000 ohms, ½ watt | 60B 28-3 |
| R7 | 150 ohms, ½ watt | 60B 28-2 |
| R8 | 33 ohms, 1 watt | 60B 8-154 |
| R9 | 1,000 ohms, ½ watt | |
| R10 | 150,000 ohms, ½ watt | |
- R10 not used in sets with model numbers ending in "N".

MODELS 5J21, 5J22,
5J23, Ch. 5J2

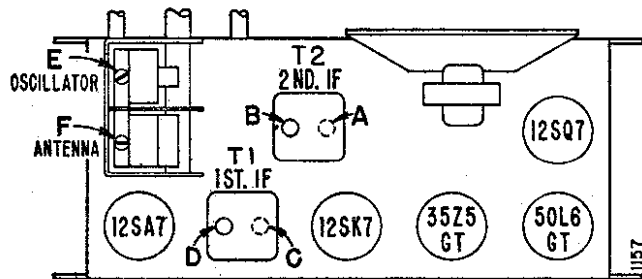
ALIGNMENT PROCEDURE

- 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.
 - Use lowest output setting of signal generator capable of producing adequate output meter indication and then proceed as outlined in chart below.
 - Repeat adjustments to insure good results.
- Caution: Do not connect a ground wire directly to chassis.

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. 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.

TUBE AND TRIMMER LOCATION



Adjustments A and C are made from underside of chassis.

POINTER SETTING AND DIAL CORD STRINGING

