



Voltages shown on schematic diagram.

Dial set at low frequency end; volume control at minimum.  
 Voltages measured on 117 volts AC with vacuum-tube voltmeter.

## CHASSIS 4Z1

**MODELS 4Z11, 4Z12, 4Z14, 4Z18, 4Z19**

# Admiral

**CHASSIS 4Z1**  
**MODELS 4Z11, 4Z12, 4Z14, 4Z18, 4Z19**

## ALIGNMENT PROCEDURE

- Battery power is preferable for alignment; use FRESH batteries. If this set is to be aligned while operating on an AC power line, an isolation transformer should be used. If an isolation transformer is not available, connect a .1 mfd. capacitor in series with the signal generator low side to B minus (pin 7 of 1U5 tube.)
- The chassis cover must be removed to align adjustments A and C.
- Set Volume control full on.
- Connect output meter across speaker voice coil.
- Use lowest setting of signal generator capable of producing adequate indication on lowest scale of output meter.
- Use a non-metallic alignment tool for IF transformers.
- Repeat adjustments to insure good results.

Step	Dummy Antenna in Series with Signal Generator	Connection of Signal Generator (High Side)	Signal Generator Frequency	Receiver Gang Setting	Adjustment Description	Adjustment Designation	Type of Adjustment
1	.1 mfd. capacitor	Stator of antenna tuning capacitor	455 KC	Gang fully open	2nd IF 1st IF	A, B* C, D*	Maximum output
2	.1 mfd. capacitor	Stator of antenna tuning capacitor	1620 KC	Gang fully open	Oscillator (on gang)	E	Maximum output
Install the metal chassis cover removed during IF Alignment.							
3	Loop of several turns of wire, or place genera- tor lead close to re- ceiver for adequate sig- nal pickup.	No actual connection (signal by radiation)	1400 KC	Tune in generator signal	Antenna (on gang)	F	Maximum output

\*Adjustments B and D are made from underside of chassis. To avoid splitting the slotted head of powdered iron tuning slug in IF transformers, use an alignment tool with a blade 3/32" wide.