



SERVICE MANUAL

MODELS Z430, Z434 & T2546

FM-AM TRANSISTOR AC RADIOS USING CHASSIS 9ZT15

To the Service Technician

GENERAL

Chassis 9ZT15 incorporates a superheterodyne circuit with autodyne converters on both FM and AM bands. There are three IF stages on the FM band and two on the AM band. Diode CR101 acts as a variable load across the wavemagnet antenna, thus preventing the overload of the 1st stage. The AM diode detector CR201, is also a source of AFC voltage for both the FM and AM bands.

Power Supply	120 VAC 60 Hertz, 0.15 Amperes, 10 Watts, FM (88 thru 108 MHz) AM (540 thru 1600 KHz)
Frequency Ranges	FM (10.7 MHz) AM (455 KHz)
Intermediate Frequency	FM (10.7 MHz) AM (455 KHz)
Sensitivity	FM — Approximately 2-microvolts for 0.5 watt output AM — Approximately 80 microvolts/meter for 0.5 watt output above noise
Power Output (Undistorted)	2 Watts
Speaker	6 inch Alnico V-P.M.
Voice Coil Impedance	6.4 ohms at 400 cycles

CAUTION:

1. When adjustments are made on these chassis, a line isolation transformer (120-V input to 120-V output) is recommended in order to avoid a shock hazard. If an isolation transformer is not available, check the AC voltage between chassis and bench ground, and if there is any indication of line voltage, reverse the plug before handling the set.
2. If a power transistor is replaced the insulator between the transistor and the heat sink should also be replaced. Be certain to apply Dow Corning No. 340 heat conductive grease between the transistor and the insulator, and also between the insulator and the chassis.

Do not operate this receiver without proper speaker load.

4. Do not short out the audio output when the receiver is operating.

AUTOMATIC FREQUENCY CONTROL (AFC)

As with all high frequency oscillators, stability is important and as a feature, it is desirable to provide automatic frequency control, which is guided by voltages, directly related to oscillator frequency shift. This is accomplished by taking D.C. voltage from the Ratio Detector and feeding it back to a voltage sensitive variable capacitor (CR1). This capacitor is connected across the oscillator circuit and acts as a frequency controlling device. If the oscillator shifts frequency, it causes ratio detector unbalance and a D.C. voltage is fed back to this capacitor. Its changing capacity will automatically adjust the frequency of the oscillator circuit to compensate for the original oscillator shift. In this manner, we have continuous oscillator automatic frequency control.

The lock-in range of the AFC circuit is approximately 700KHz at 50 micro-volts. Should you desire to receive a weak FM station, within the AFC pull-in range of a strong FM station, an AFC disabling switch has been provided in the receiver circuitry. The AFC voltage is removed from the oscillator when the band switch is placed in FM position.

To obtain proper AFC action, place band switch in FM position and tune to the exact desired station frequency, then place the band switch in the AFC position . . . this will insure proper AFC action.

SIGNAL TRACING

A technique used in radio repair commonly known as "Screw driver testing" in which the B plus at the plate of the tube is shorted to ground to check for "clicks" in the speaker, is definitely not recommended. This practice would be comparable to shorting the collector of a transistor to ground which could damage the transistor. Standard point to point signal checking with the proper RF, IF and audio signals, should only be used.

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A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the Hydrotap Company Ltd text.

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