

BANDSWITCH SHOWN IN STANDARD BROADCAST POSITION. COUNTER, CLOCKWISE POSITION AS VIEWED FROM FRONT OF CASE. BANDSWITCH POSITIONS (1ST POS. STD. BROADCAST)

ARROW ON CONTROLS INDICATE CLOCKWISE ROTATION.

ALL VOLTAGES MEASURED FROM COMMON RETURN TO POINTS INDICATED WITH AN A.C. D.C. VACUUM TUBE VOLTMETER.

ALL VOLTAGES ARE D.C. UNLESS OTHERWISE SPECIFIED.

ALL RESISTORS ARE  $\pm 20\%$  UNLESS OTHERWISE SPECIFIED.

$\perp$  DENOTES CHASSIS.

AMP MOD I.F. FREQUENCY 455 K.C.

FREQ. MOD I.F. FREQUENCY 10.7 M.C.

TUNING RANGES 540 - 1620 K.C. STANDARD BROADCAST. 98 - 108 M.C. FREQUENCY MOD.

TO ANTENNA TERMINAL STRIP FM CONNECTION. FM ANTENNA CAPACITOR ON CABINET BACK

PL1  
SE1  
R8  
R10  
R11  
R12  
R13  
R14  
R15  
R16  
R17  
R18  
R19  
R20  
R21  
R22  
R23  
R24  
R25  
R26  
R27  
R28  
R29

A vacuum tube voltmeter with an isolation resistor of 2,000,000 ohms in series with the hot lead will serve for FM adjustments. This lead should be shielded.

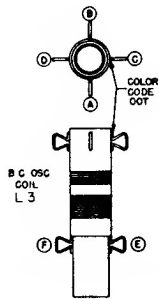
An AC output meter connected across the primary or secondary of the output transformer will be satisfactory for all AM adjustments.

The signal generator output should be kept just high enough to get an indication on the meter.

- Vacuum Tube Voltmeter Lug 7 on discriminator transformer to chassis (half discriminator load).
- Vacuum Tube Voltmeter Lug 5 on discriminator transformer to chassis (full discriminator load).
- Vacuum Tube Voltmeter from Limiter Grid to Chassis.
- Loosen Slugs by applying a hot iron to the cement.

**MODEL H724Z**  
**CHASSIS 7H02Z**

Zenith Radio Corp. Model H724Z, Chassis 7H02Z  
Zenith Model H724, Chassis 7H02, is identical to the "Z" version covered on this page, except for radiation proofing (use of chokes, shielding, etc.).



# ALIGNMENT

	Connect Oscillator to	Dummy Antenna	Input Signal Frequency	Band	Dial	Adj. Trimmers	Purpose
1	Pin 2-12AT7 or 12AU7 Converter	.05 Mfd.	455 KC. Modulated	BC	600 Kc.	L8, 9, 11, 14, 15	Align I. F. channel for maximum output.
2	2 turns loosely cpld. to wavemagnet		1600 Kc. Modulated	BC	1600 Kc.	C3	Set oscillator to dial scale.
3	2 turns loosely cpld. to wavemagnet		1400 Kc. Modulated	BC	1400 Kc.	C2	Align antenna stage.
4 (a)	Pin 1 (grid) on 12AU6 limiter.	.05 Mfd.	10.7 Mc. Unmodulated	FM	100	L16 coil slug Primary discr.	Align primary of discriminator for maximum reading.
5 (b)	Pin 1 (grid) on 12AU6 limiter.	.05 Mfd.	10.7 Mc. Unmodulated	FM	100	L17 coil slug sec. of discr.	Adjust secondary of discriminator for zero reading.
6 (c)	Pin 1 (grid) on 12BA6 2nd IF.	.05 Mfd.	10.7 Mc. Unmodulated	FM	100	L12 and 13 Prim and Sec. of 3rd IF trans.	Align 3rd IF transformer for maximum reading.
7 (c)	Pin 1 (grid) on 12BA6 1st IF.	.05 Mfd.	10.7 Mc. Unmodulated	FM	100	L10 Prim. of 2nd IF transformer.	Align 2nd IF transformer for maximum reading.
8 (c)	Pin 2 (grid) on 12AT7 or 12AU7 converter tube socket.	.05 Mfd.	10.7 Mc. Unmodulated	FM	100	L6 and L7 Prim. and Sec. of 1st IF transformer.	Align 1st IF transformer for maximum reading.
9 (c)	Antenna Post FM (Remove line ant.)	270 ohms	98 Mc. Unmodulated	FM	98 Mc.	C11 Osc. Coil.	Set Oscillator to dial scale.
10 (c) (d)		270 ohms	98 Mc. Unmodulated	FM	98 Mc.	C4 Det. Coil.	Align det. stage to max, reading.