



DIAL CORD DRIVE
SHOWN IN FULL COUNTERCLOCKWISE
POSITION

ARROW ON CONTROL S INDICATES CLOCKWISE ROTATION.
 ALL VOLTAGES MEASURED FROM CHASSIS TO POINTS
 INDICATED WITH AN "X" ON MEDIUM THICK VOLTAGE
 ALL VOLTAGES ARE DC UNLESS OTHERWISE SPECIFIED
 FREQUENCY MODULATION - INTERMEDIATE FREQUENCY
 TUNING RANGES 80-150 MC
 80-150 MC
 ALL RESISTORS ARE 2% TOLERANCE, 1/2 WATT, CARBON
 ALL CONDENSER VALUES IN MICROFARADS UNLESS
 OTHERWISE SPECIFIED
 IDENTIFIES CHASSIS

ZENITH RADIO CORPORATION
MODEL C724L,P,G CHASSIS 7C02

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Models C724L, P, G

Chassis 7C02

ALIGNMENT PROCEDURE

OPERATION	CONNECT OSCILLATOR TO	DUMMY ANTENNA	INPUT SIGNAL FREQUENCY	BAND	SET DIAL TO	ADJUST	PURPOSE
1	Pin 2 12AT7 Converter	.05 Mfd.	455 Kc., 400 Cycle Modulated	BC	600 Kc.	L9,10,11,15,16	Align IF channel for maximum output.
2	2 turns loosely coupled to wavemagnet		1600 Kc., 400 Cycle Modulated	BC	1600 Kc.	C6D	Set oscillator to dial scale.
3	2 turns loosely coupled to wavemagnet		1400 Kc., 400 Cycle Modulated	BC	1400 Kc.	C6B	Align antenna stage
4 (a)	Pin 1 (grid) on 12AU6 limiter	.05 Mfd.	10.7 Mc. Unmodulated	FM		L17 coil slug pri. discr.	Align primary of discriminator for maximum reading.
5 (b)	Pin 1 (grid) on 12AU6 limiter	.05 Mfd.	10.7 Mc. Unmodulated	FM		L18 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		L13 & L14 pri. & 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		L12 2nd IF trans.	Align 2nd IF transformer for maximum reading.
8 (c)	Pin 2 (grid) on 12AT7 converter tube socket	.05 Mfd.	10.7 Mc. Unmodulated	FM		L7 & L8 pri. & sec. of 1st IF trans.	Align 1st IF transformer for maximum reading.
9 (c)	Antenna Post FM (Remove line ant.)	270 Ohms	98 Mc. Unmodulated	FM	98 Mc.	L4 osc. coil slug	Set oscillator to dial scale.
10 (c) (d)		270 Ohms	98 Mc. Unmodulated	FM	98 Mc.	L6 det. coil slug	Align det. stage to maximum reading.

Correct alignment can only be made if the following procedure is followed:

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.

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.

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

