

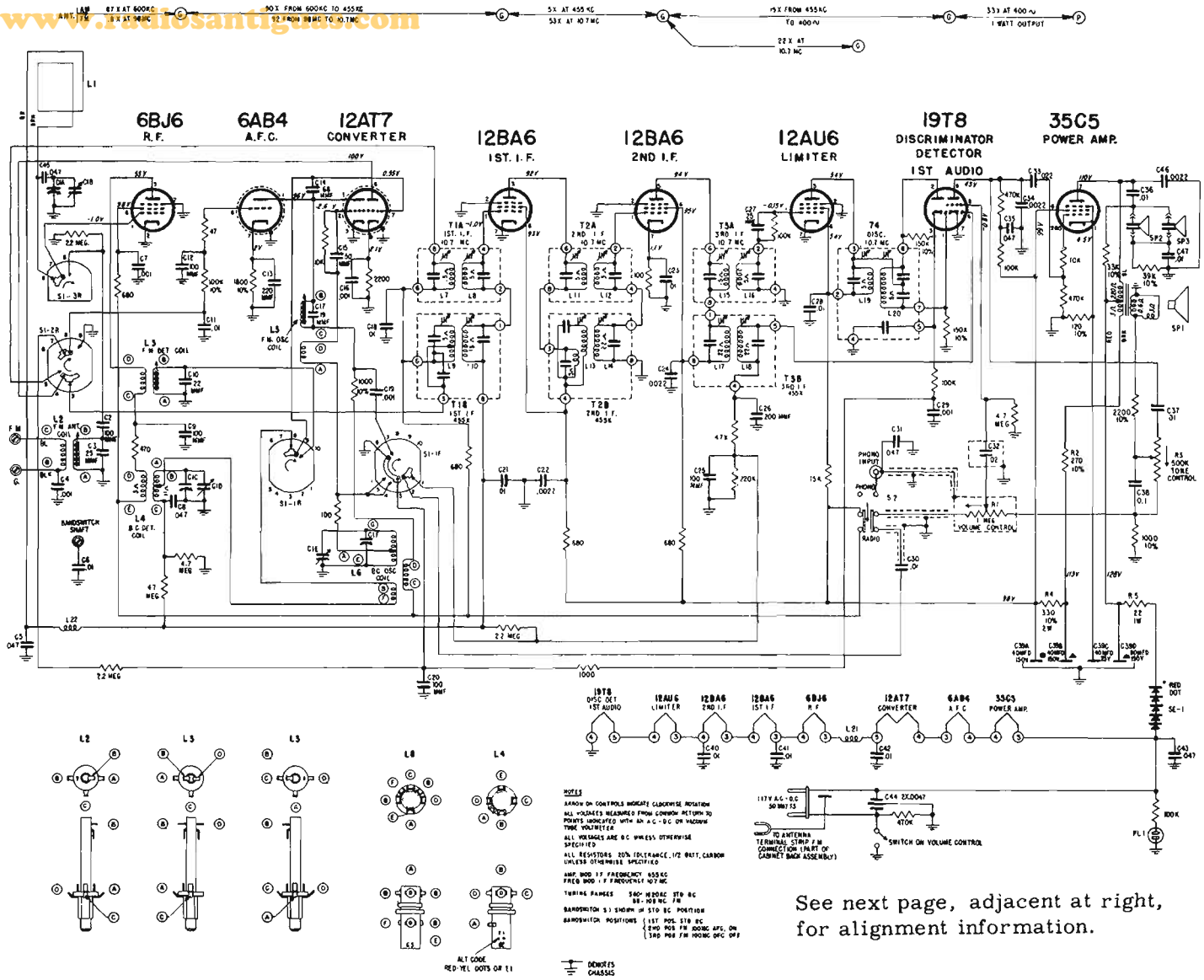
# ZENITH RADIO CORP

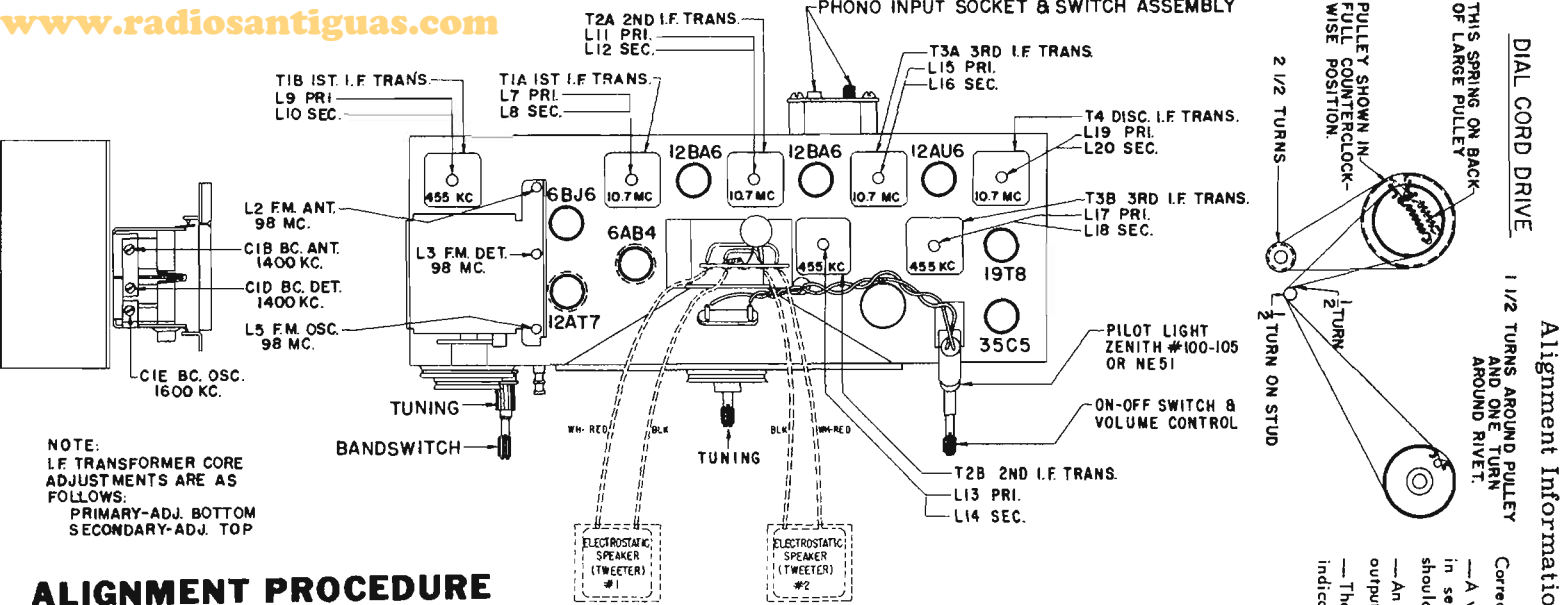
Models Y832E and Y832R  
Chassis 8Y02

(See next page, adjacent at right, for alignment information.)

This receiver features an Automatic Frequency Control which keeps your receiver on the exact station frequency when you are tuned to an FM station. Turn the band switch to (FM A.F.C.) position and tune the receiver. When the desired FM station is a weak station, adjacent in frequency to a strong station, the A.F.C. may pull the tuning into the stronger station. Under these conditions, place the band switch in FM position and tune the receiver.

See next page, adjacent at right, for alignment information.





NOTE:  
 L.F. TRANSFORMER CORE  
 ADJUSTMENTS ARE AS  
 FOLLOWS:  
 PRIMARY-ADJ. BOTTOM  
 SECONDARY-ADJ. TOP

## ALIGNMENT PROCEDURE

OPERATION	CONNECT OSCILLATOR TO	DUMMY ANTENNA	INPUT SIGNAL FREQUENCY	BAND	SET DIAL TO	ADJ. TRIMMERS	PURPOSE
1	Pin 7 12AT7 Converter	.05 Mfd.	455Kc Modulated	BC	600 Kc	L-9, 10, 13, 14, 17 and 18.	Align I.F. channel for maximum output
2	2 turns loosely coupled to wavemagnet		1600 Kc Modulated	BC	1600 Kc	CIE	Set Oscillator to dial scale
3	2 turns loosely coupled to wavemagnet		1400 Kc Modulated	BC	1400 Kc	CID and CIB	Align det. and ant. stages
4	<b>IMPORTANT: Before attempting to align the FM portion of this receiver, the Band Switch must be in FM POSITION.</b>						
5 (a)	Pin 1 (grid) on 12AU6 limiter	.05 Mfd.	10.7 Mc Unmodulated	FM		L19 coil slug Primary discr.	Align primary of discriminator for maximum reading
6 (b)	Pin 1 (grid) on 12AU6 limiter	.05 Mfd.	10.7 Mc Unmodulated	FM		L20 coil slug sec. of discr.	Adjust secondary of discriminator for zero reading
7 (c)	Pin 1 (grid) on 12BA6 2nd. IF.	.05 Mfd.	10.7 Mc Unmodulated	FM		L15 and L16 Pri. and Sec. of 3rd IF transformer	Align 3rd. IF transformer for maximum reading
8 (c)	Pin 1 (grid) on 12BA6 1st. IF.	.05 Mfd.	10.7 Mc Unmodulated	FM		L11 and L12 Pri. and Sec. of 2nd IF transformer	Align 2nd. IF transformer for maximum reading
9 (c)	Pin 7 (grid) on 12AT7 converter tube socket	.05 Mfd.	10.7 Mc Unmodulated	FM		L7 and L8 Pri. and Sec. of 1st IF transformer	Align 1st. IF transformer for maximum reading
10 (c)	<b>REPEAT STEPS 7, 8 AND 9</b>						
11 (c) (d)	Antenna Post F (Remove line ant.)	270 Ohms	98 Mc Unmodulated	FM	98 Mc.	L5 Osc. Coil Slug	Set Oscillator to dial scale
12 (c) (d)		270 Ohms	98 Mc Unmodulated	FM	98 Mc.	L3 and L2 Det. and RF coil Slugs	Align det. and ant. stages to maximum reading

Alignment Information (See preceding page for circuit diagram)

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.
- 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.