

CUSTOM SERIES

ALIGNMENT PROCEDURE

CRC 6531A CUSTOM SERIES "30" Chassis #2

AM ALIGNMENT

(1) Push in AM Function Switch

Step	Connect High Side of Gen-erator TO —	Set Sweep Generator TO —	Set Marker Generator TO —	Set Radio Dial TO —	Adjust For Maximum
#1		Connect Oscilloscope to Junction of R-11, C-11 (CRC6531A #2, CRC6532A #3)			
		Connect Oscilloscope to Junction of R-19, R-20 (CRC6533A #4)			
#2	Pin #1, V-2 (6BA6) CRC6531A; CRC6532A	455 KC	455 KC Radiated	Quiet Spot Near 1620 KC	Adjust Top and Bottom Cores Second IF Trans-former AM for Curve of Maximum Gain. See Fig. #2, 5 & 6 Marker in Centre of Curve.
#3	Pin #7, V-4 (6BE6) CRC6531A, CRC6532A Pin #7, V-5 (6BE6) CRC6533A				Adjust Top and Bottom Cores 1st IF Transformer AM for Curve. See Fig. #2, 5 & 6
#4	Repeat Step Nos. #2 and #3				
#5			1620 KC (Radiated)	1620 KC	Adjust Oscillator Trimmer for Maximum Output
#6	Short Wire Placed Near AM Antenna		1500 KC (Radiated)	1500 KC	Antenna Trimmer for Maximum Output
#7			600 KC (Radiated)	600 KC	Oscillator Coil L-2 for Maximum Output.
#8	Repeat Step Numbers #5, #6 and #7				

FM MULTIPLEX ALIGNMENT

Step	Connect High Side of Signal Generator TO —	Set Sweep Generator TO —	Set Radio Dial TO —	Adjust for Maximum
#1		Connect oscilloscope through low capacity probe to Pin #2 V-301		
#2	Audio Generator to junction R-302 and R-31	72 KC	FM Stereo	Peak L-301 for minimum deflection on oscilloscope.
#3	Audio Generator to junction R-302 and R-31	Short out L-301 connect oscilloscope through low capacity probe to junction of R-311 and C-309		
#4		67 KC	FM Stereo	Peak L-303 for minimum deflection on oscilloscope.
#5		Short out primary of T-301 oscilloscope connected as step #3		
#6	Antenna Terminals	Composite signal left channel modulated at 1000 cycles	FM Stereo	Peak L-302 until points on curve just meet. See Fig. #8
#7		Remove short T-301. Disconnect oscilloscope. Connect DC voltmyst at Pin #1 V-302		
#8		Same as step #6	FM Stereo	Peak T-301 for maximum output on meter.
#9		Disconnect voltmyst. Relocate oscilloscope through low capacity probe at Pin #2 V-302		
#10		Same as step #6	FM Stereo	Peak T-302 for maximum output on scope.
#11		Relocate oscilloscope to Pin #7 V-301		

FM MULTIPLEX ALIGNMENT (Continued)

#12	Antenna Terminals	Same as step #6	FM Stereo	Adjust cores T-301 inwardly until a clean waveform of maximum gain occurs.
#13		Relocate oscilloscope at junction of C-319 and C-320		
#14		Same as step #6	FM Stereo	Adjust R-31 balance for minimum output on left channel.

FM ALIGNMENT

(1) Push in FM selector switch

Step	Connect High Side of Generator TO —	Set Sweep Generator TO —	Set Marker Generator TO —	Set Radio Dial TO —	Adjust For Maximum
#1		Connect Voltmyst to Junction R-25 and R-26. CRC6531A #2; CRC6532A #3.			
		Connect Voltmyst to Junction R-30 and R-31. CRC6533A #4.			
#2		10.7 MC		Quiet Spot Near 108 MC	Adjust Bottom Core Ratio Detector For Maximum Output.
#3	Pin #1, V-2 (6BA6) CRC6531A; CRC6532A	Relocate Voltmyst to Junction R-22 and R-23. CRC6531A; CRC6532A			
#4	Pin #1, V-3 (6BA6) CRC6533A	Relocate Voltmyst to Junction R-29 and C-21. CRC6533A.			
		10.7 MC		Quiet Spot Near 108 MC	Adjust Top Core Ratio Detector For Absolute Zero.
#5	Repeat Steps #2 and #4				
#6	Connect Oscilloscope to Limiter Grid Through Test Jig. See Fig. #1				
#7	Pin #1, V-2 (6BA6) CRC6531A; CRC6532A				Adjust T-1 (CRC6531A, CRC6532A) or T-2 (CRC6533A) Top and Bottom Cores for Maximum Symmetrical Curve. See Fig. #3 with Marker in Centre.
	Pin #1, V-3 (6BA6) CRC6533A. Low Side to Centre Ground Pin of Tube CRC6533A Only	10.7 MC	10.7 MC (Radiated)	Quiet Spot Near 108 MC	
#8	Pin #1, V-2 (6BA6) CRC6533A only. Low Side to Ground Pin of Tube.	10.7 MC	10.7 MC	Quiet Spot Near 108 MC	Adjust T-1 (CRC6533A) Top and Bottom Cores For Curve. See Fig. #3
#9	Remove Sweep Step Nos. #7 and #8				
#10	Antenna Terminals CRC6531A, CRC6532A	89 MC	10.7 MC	89 MC	Adjust FM Tuner IF Transformers Top and Bottom Core for Curve. See Fig. #3 T-1 May Require Touch Up.
#11	Antenna Terminals CRC6533A	97 MC	10.7 MC	97 MC	Adjust FM Tuner IF Transformers Top and Bottom Core for Curve. See Fig. #3 T-2 may Require Touch Up.
#12	Repeat Step No. #7, #8, #10 and #11.				
#13	Remove Sweep, Marker and Oscilloscope				
#14	Antenna Terminals		106 MC	106 MC	Adjust Antenna and Oscillator Trimmers for Maximum.
#15	Antenna Terminals		89 MC	89 MC	Adjust Antenna and Oscillator Trimmers for Maximum Output.
#16	Repeat Step Nos. #14 and #15.				

CRC 6531A CUSTOM SERIES "30" Chassis #2

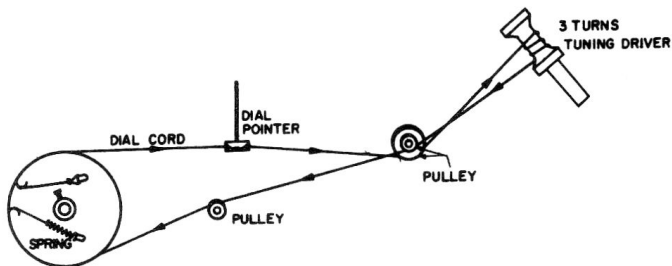


Figure 9—Dial Cord Stringing for all Chassis

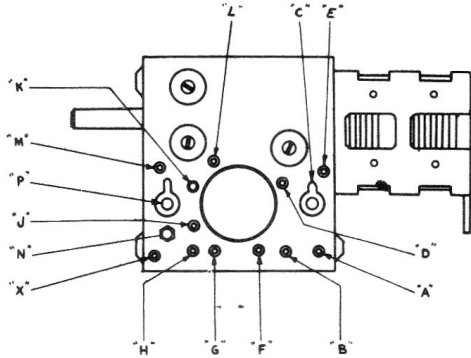


Figure 10—FM Tuner & Variable Capacitor for Chassis #2

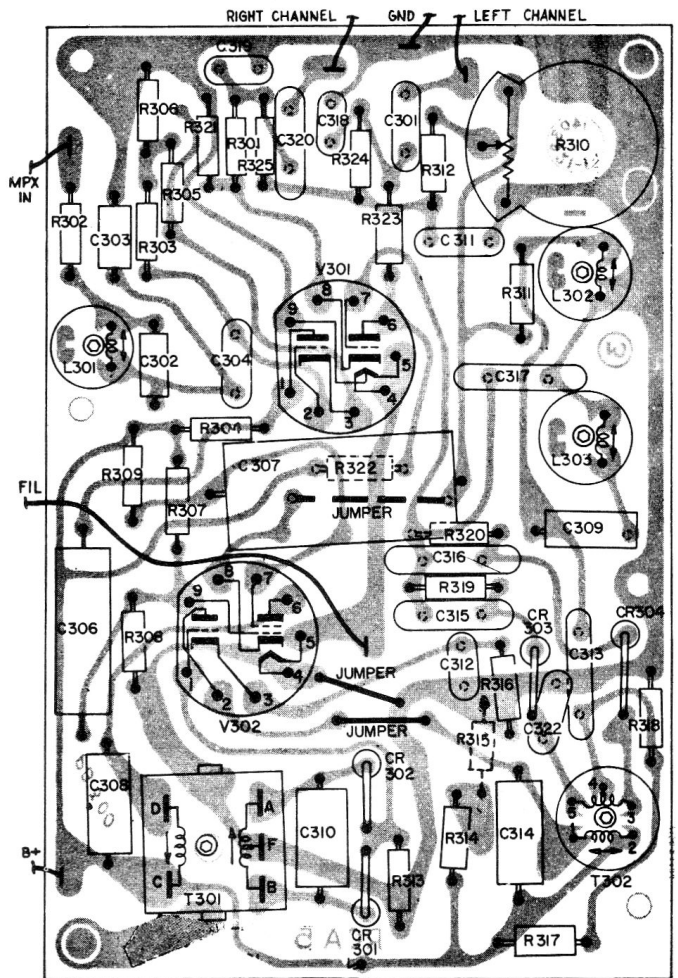
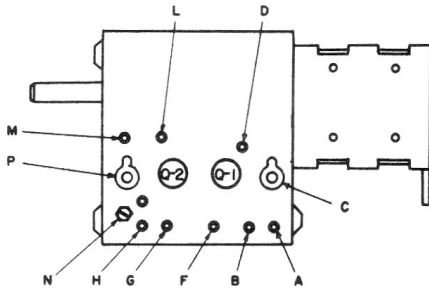


Figure 12—PB300 Layout for Chassis #2

Figure 18—CAC65204 Power Amplifier for Chassis #2

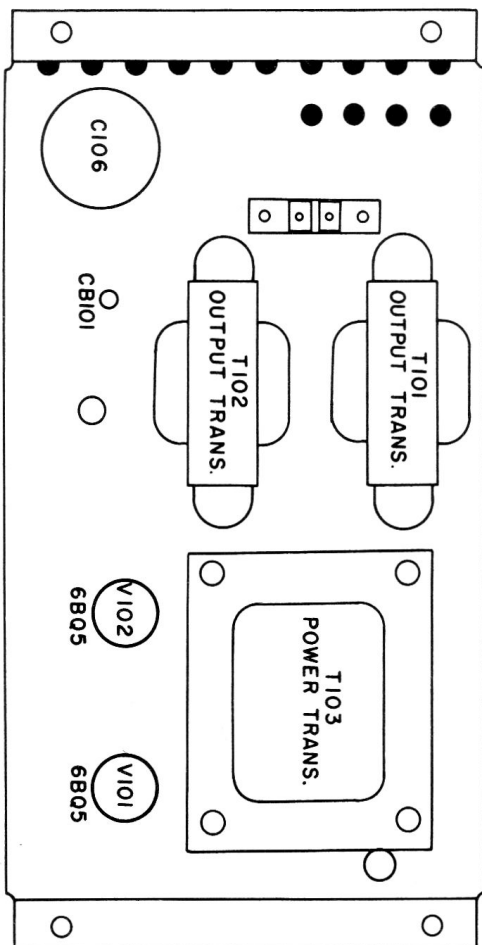
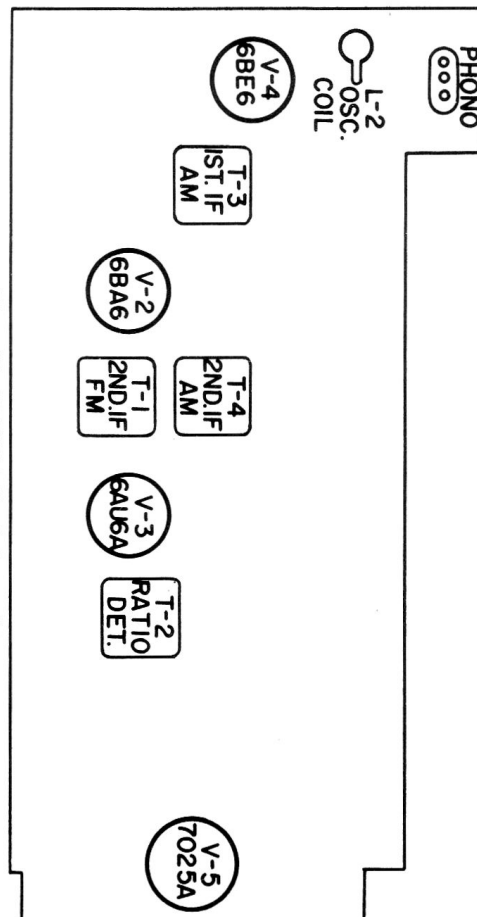


Figure 17—CRC6531A Chassis Layout #2



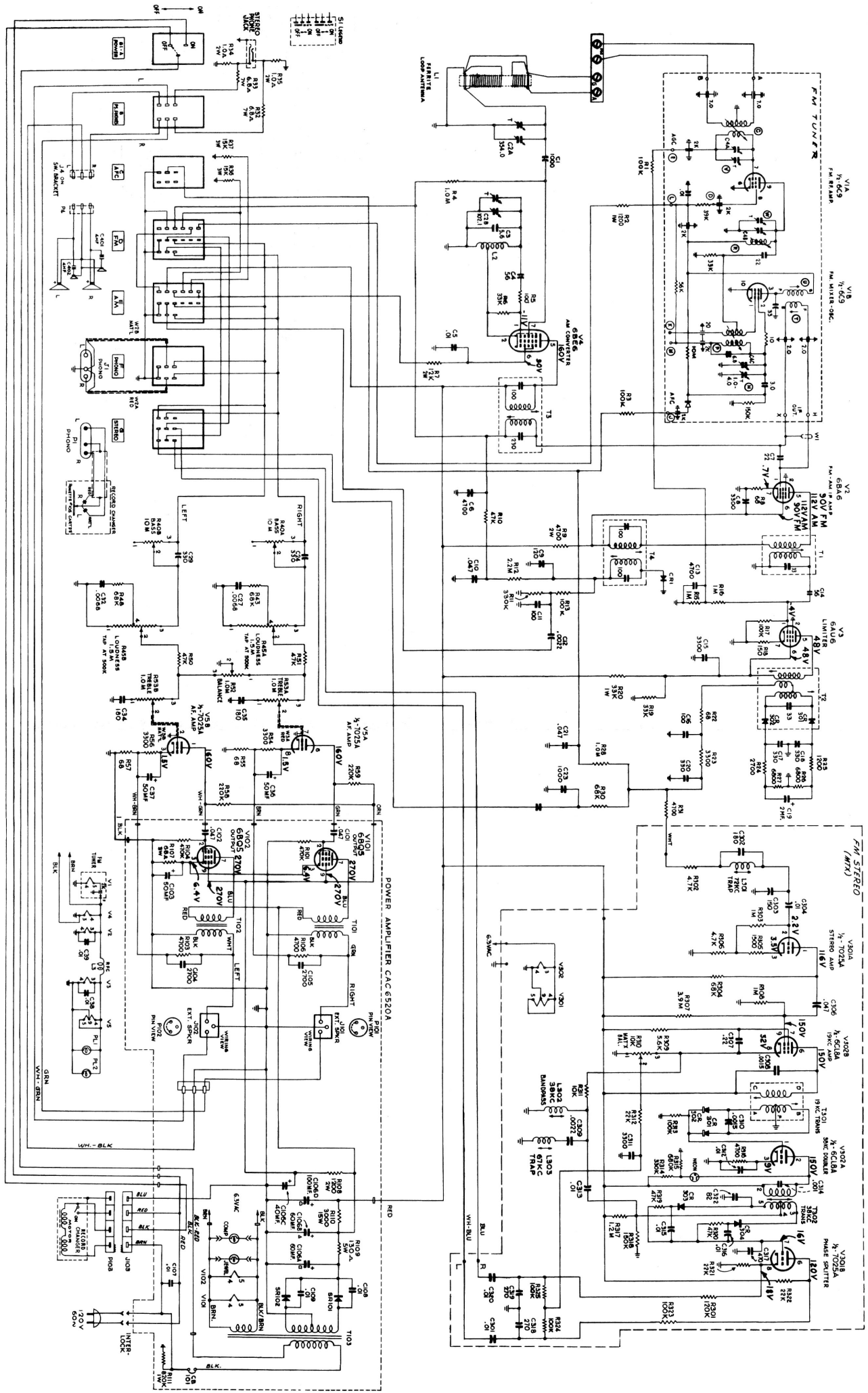


Figure 19—Schematic Diagram Classis #2