

TELEVISION Service Manual

PUBLISHED BY RADIO COLLEGE OF CANADA, TORONTO

1965 Supplement No. 61

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P1110 Uses one of above chassis.
P1112 Uses one of above chassis.
P1113 Uses one of above chassis.
P1119 Uses one of above chassis.
VAP364B Uses one of above chassis.
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MODEL SERIES

MODEL SERIES	CHASSIS	NAME
FF-567	CTC16A	"DONLEY"
FF-567R	CTC16B	"DONLEY"
GF-611	CTC16A	"BAILEY"
GF-631	CTC16E	"FIELDING"
GF-631R	CTC16F	"FIELDING"
GF-641	CTC16E	"LONGPORT"
GF-681	CTC16E	"DRISCOLL"
GF-701	CTC16E	"ALBORG"
GF-701R	CTC16F	"ALBORG"
GF-703	CTC16E	"MONROE"
GF-703R	CTC16F	"MONROE"
GF-705	CTC16E	"VENETIAN"
GF-705R	CTC16F	"VENETIAN"
GF-707	CTC16E	"DUBOIS"
GF-707R	CTC16F	"DUBOIS"
GF-711	CTC16E	"GILBERTSON"
GF-711R	CTC16F	"GILBERTSON"
GF-713	CTC16E	"WHITMAN"
GF-731	CTC16L	"CASTELTON"
GF-737	CTC16L	"ENGBERG"
GF-739	CTC16L	"CUMBERLAND"
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Model

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Model

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KV300/10 See X-2474-32.
KV400/10/20/30 See X-2474-33.
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RCC
TELEVISION
Supplement
No. 61

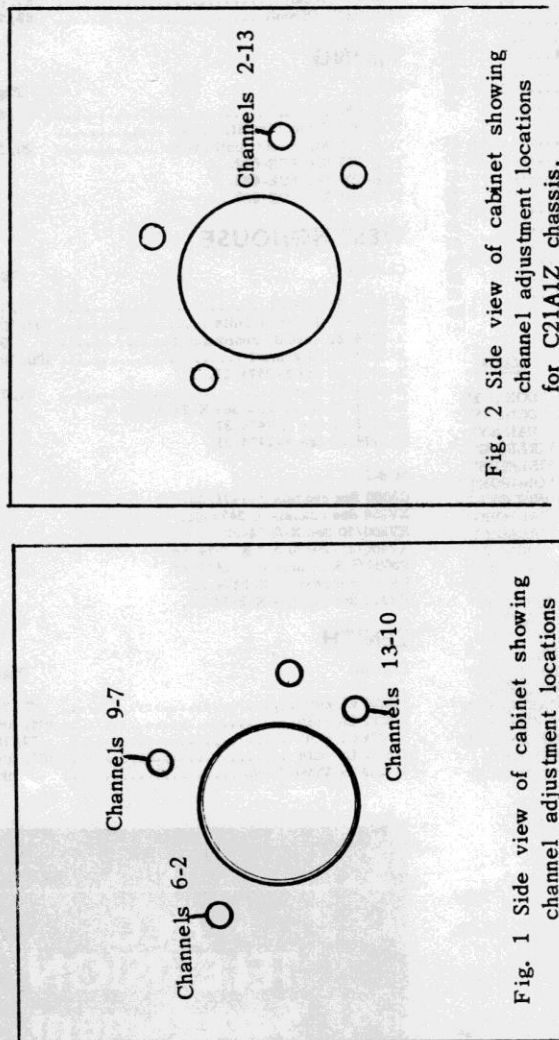


Fig. 1 Side view of cabinet showing channel adjustment locations for C21A1X chassis.

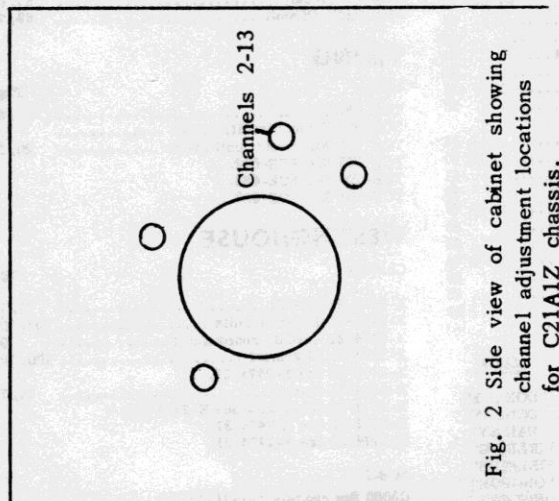


Fig. 2 Side view of cabinet showing channel adjustment locations for C21A1Z chassis.

Coils	
L201	Interstage Coil
L202	Quad Coil
L302	I F Input Coil
L303	Irep Coil
L307	Vid Peaking Coil
L308	Vid Peaking Coil
L309	Vid Peaking Coil
L310	Peaking Coil
L311	Filament Choke (Red)
L312	Filament Choke (Red)
L401	Horiz Osc Coil
L403	R F Choke
L501	R F Choke
L502	Filter Choke
TRANSFORMERS	
T201	Audio Xfmr
T301	Interstage
T302	Last I F
T303	Sound Coil
T401	Vert Xfmr
T402	Deflection Yoke
T403	Horizontal Xfmr

72C208-5
72C132-61
72C132-67
72C132-65
73B31-4
73C5-42
73C5-44
73C5-40
73X37-2
73X37-2
94M15-7
73B37-17
73B31-1
74C16-53

79M9-26
72C132-42
72B261-2
72C185-2
79D100-7
94N16-5
79D82-18

C21A1Z Chassis is the same as C21A1X Chassis with the following exceptions:

Bracket, Tuner Mtg
Tuner
Delete
M592 & M593 Couplate.

C21A1Y Chassis is the same as C21A1X Chassis with the following exceptions:

Bracket, Tuner Mtg.
Tuner.

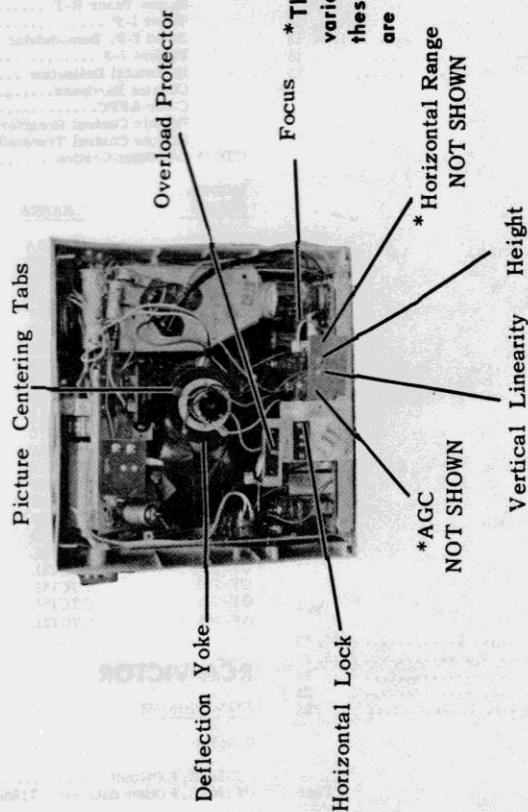


Fig. 3 Rear View of Chassis Showing Adjustment Locations

*The AGC Control and Horizontal Range Control were variable from Run 1 through Run 3. Run 4 and later these Controls were incorporated into the circuit and are not variable.

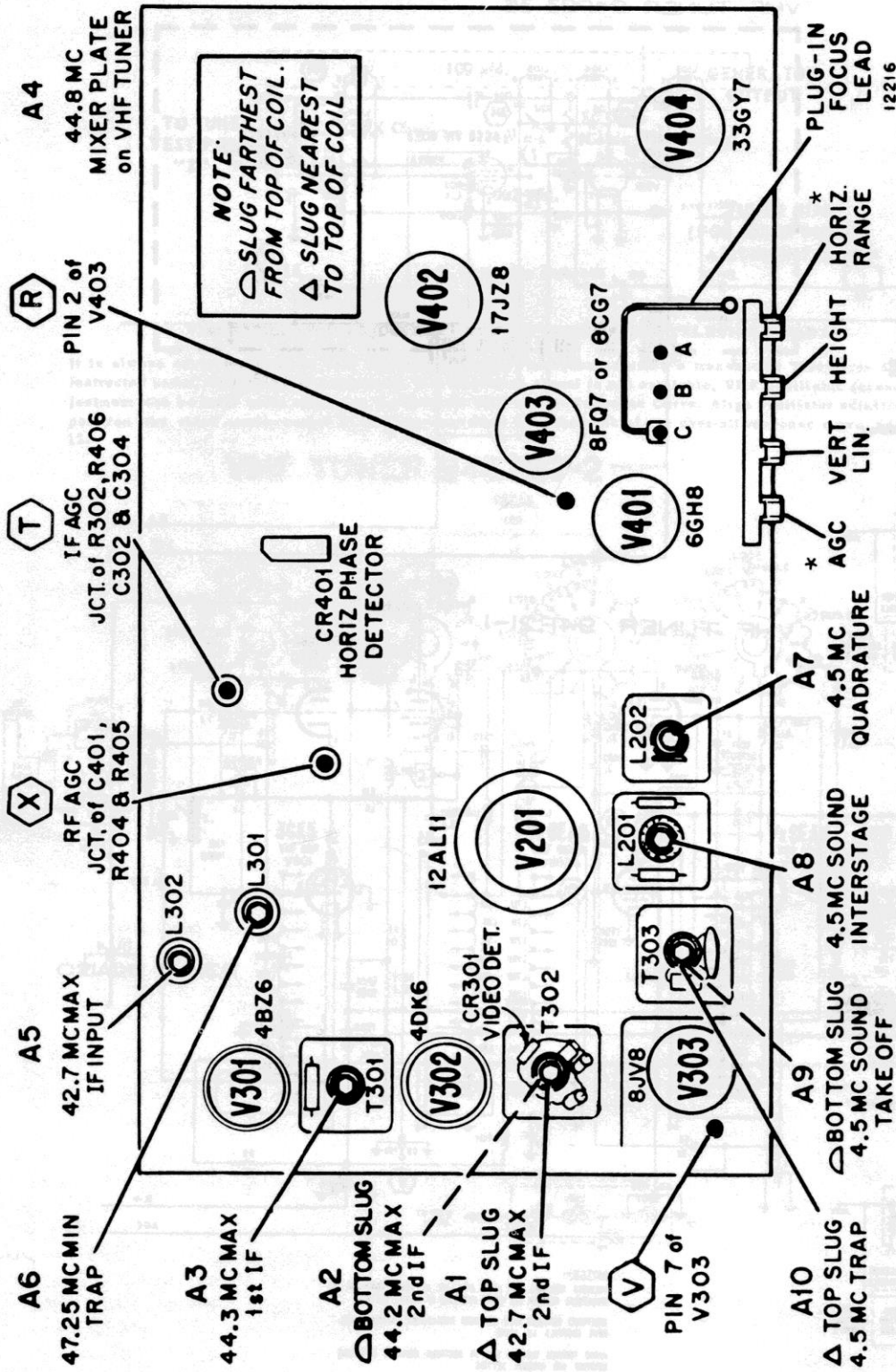
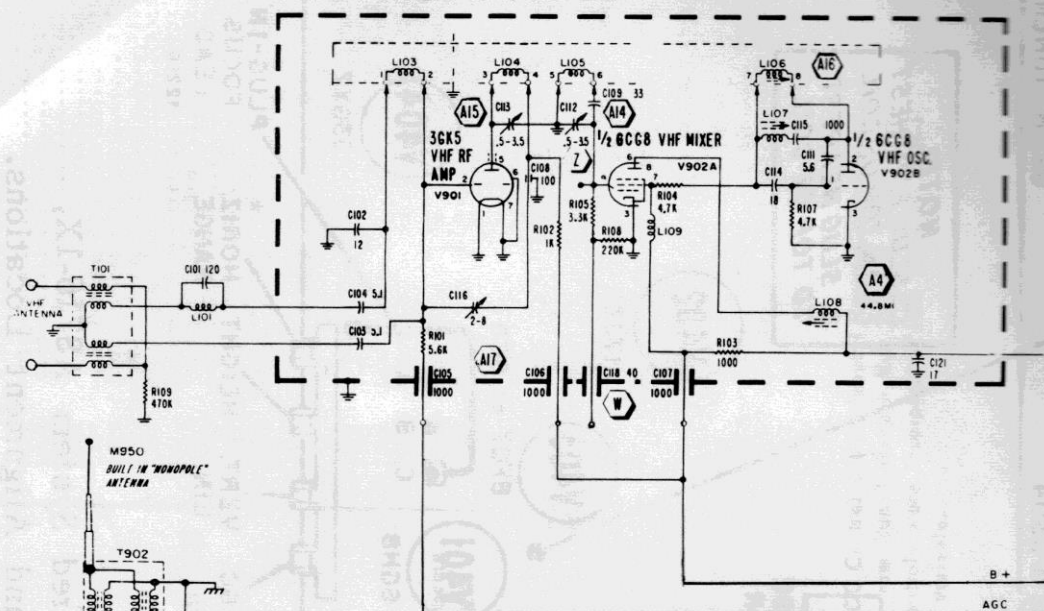
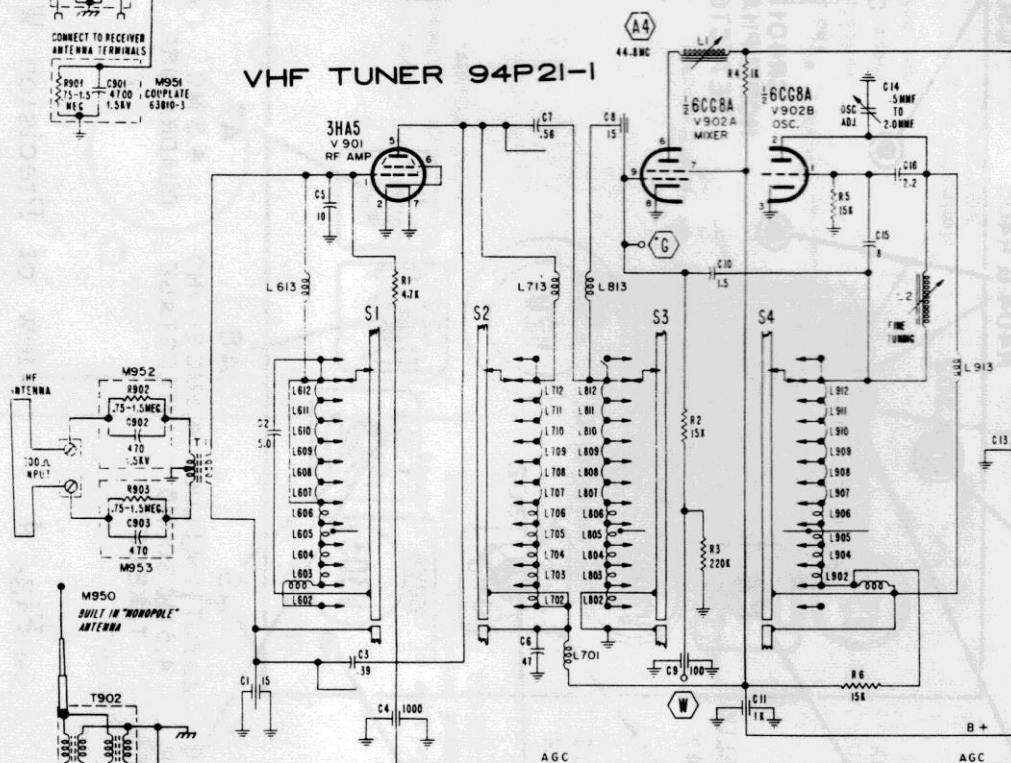


Fig. 4 View of Precision Wired System A8716-1X, Showing Test Point and Alignment Locations.
 *NOT INCLUDED RUN 4 AND LATER.

VHF TUNER 94P23-36



VHF TUNER 94P21-1



NOTES:-

VOLTAGES MEASURED WITH VTVM, 10V LINE, NO SIGNAL CONTRAST AND BRIGHTNESS MAXIMUM. ALL OTHER CONTROLS AT NORMAL SETTING

WAVEFORMS MEASURED WITH WIDE BAND OSCILLOSCOPE. MEDIUM SIGNAL INPUT CONTROLS AS ABOVE

ARROW THROUGH VARIABLE ARM ON CONTROLS INDICATES CLOCKWISE ROTATION AND MAXIMUM SETTING

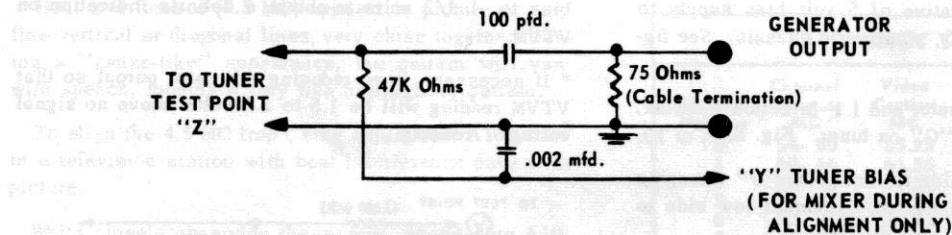
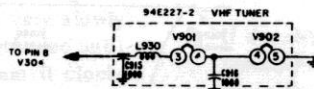
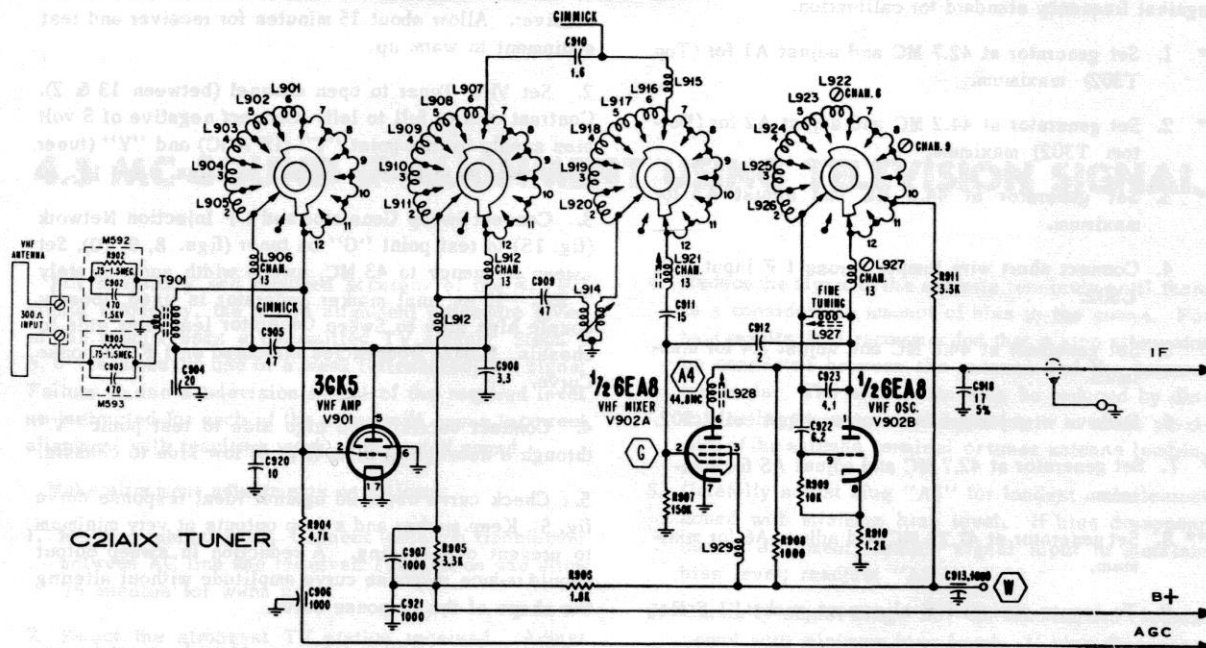


Fig. 15 I.F Injection Network

VHF OSCILLATOR ADJUSTMENT USING A TRANSMITTED TELEVISION SIGNAL

It is always advisable to make VHF oscillator (channel) adjustments using a transmitted Television Signal as instructed under, VHF Channel Adjustment. If a television signal is not available, VHF oscillator (channel) adjustment can be made while observing the Over-all VHF and IF Response Curve. Align oscillator adjustments to position the video carrier marker 50 to 60 percent down from the peak of the over-all response curve, see figure 12.

VHF TUNER 94E227-2 (FOR C21A1X)

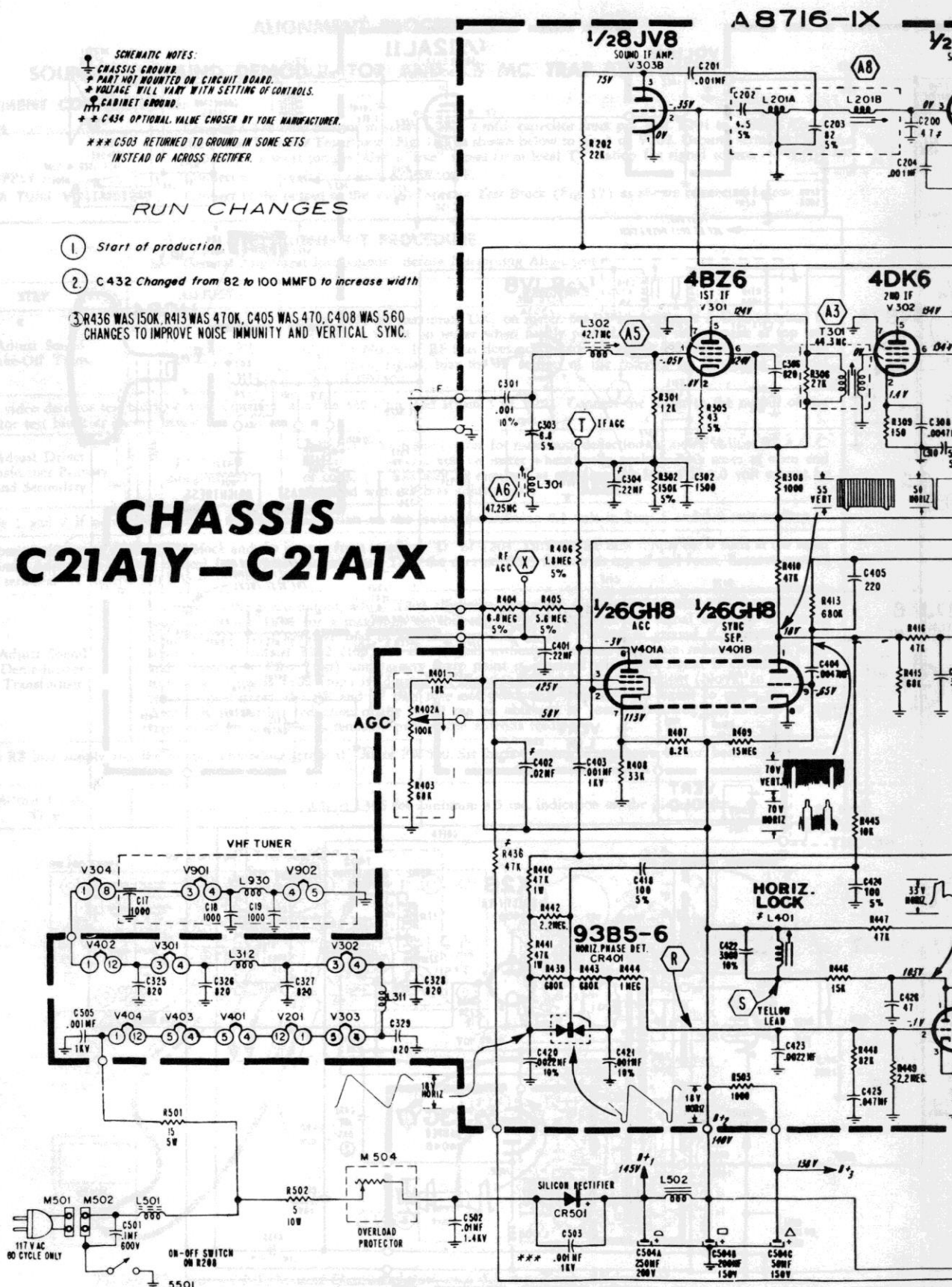


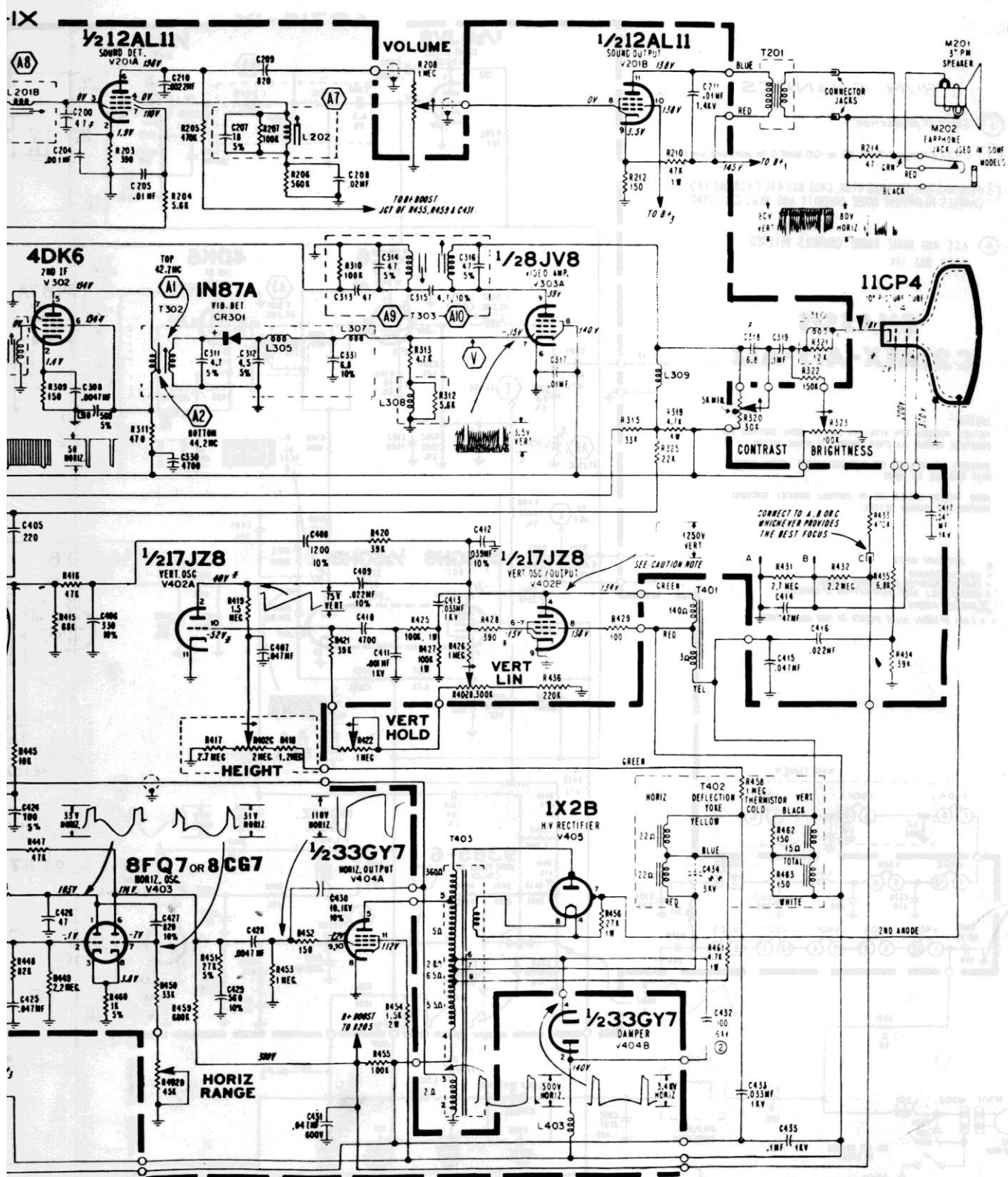
ADMIRAL
C21A1Y, 1X

RUN CHANGES

- ① Start of production.
- ② C432 Changed from 82 to 100 MMFD to increase width
- ③ R436 WAS 150K, R413 WAS 470K, C405 WAS 470, C408 WAS 560
CHANGES TO IMPROVE NOISE IMMUNITY AND VERTICAL SYNC.

CHASSIS C21A1Y – C21A1X





RUN CHANGES

- ① Start of production
- ② C432 Changed from 82 to 100 MMFD to increase width
- ③ R436 WAS 150K, R413 WAS 470K, C405 WAS 470, C408 WAS 560 CHANGES TO IMPROVE NOISE IMMUNITY AND VERTICAL SYNC
- ④ AGC AND HORIZ RANCE CONTROLS DELETED
R450 WAS 33K

CHASSIS
C21A1X-A1Y-A1Z

NOTES:-

VOLTAGES MEASURED WITH VTVM, 117V LINE, NO SIGNAL CONTRAST AND BRIGHTNESS MAXIMUM ALL OTHER CONTROLS AT NORMAL SETTING

WAVEFORMS MEASURED WITH WIDE BAND OSCILLOSCOPE, MEDIUM SIGNAL INPUT CONTROLS AS ABOVE

ARROW THROUGH VARIABLE ARM ON CONTROLS INDICATES CLOCKWISE ROTATION AND MAXIMUM SETTING

SCHEMATIC NOTES:

- ⊕ CHASSIS GROUND
- ⊕ PART NOT MOUNTED ON CIRCUIT BOARD
- VOLTAGE WILL VARY WITH SETTING OF CONTROLS
- ⊕ CABINET GROUND
- ⊕ C434 OPTIONAL VALVE CHOSEN BY TUBE MANUFACTURER

