

RCC TELEVISION RADIO HI-FI SERVICE MANUAL

1972
NUMBER
134

PUBLISHED BY RCC PUBLICATIONS, TORONTO

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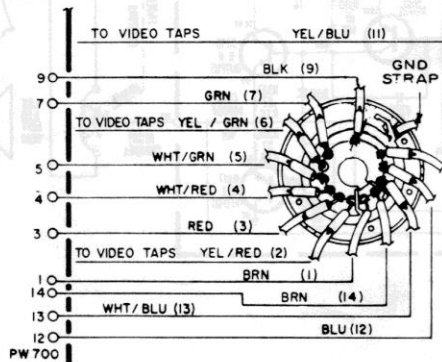
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COILS

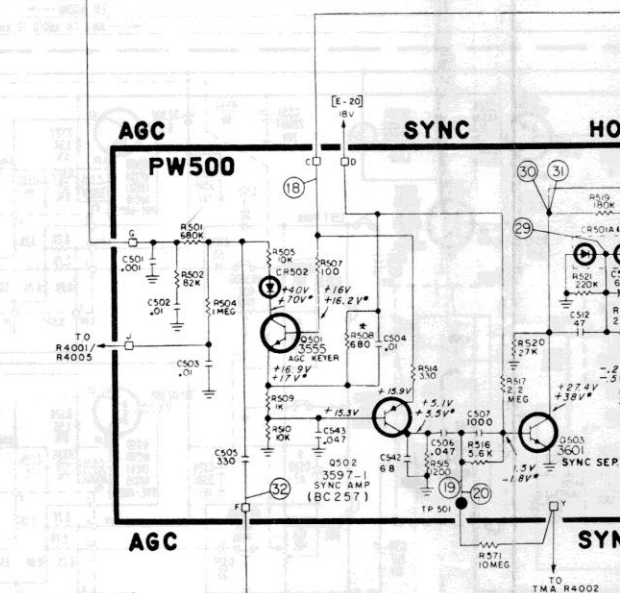
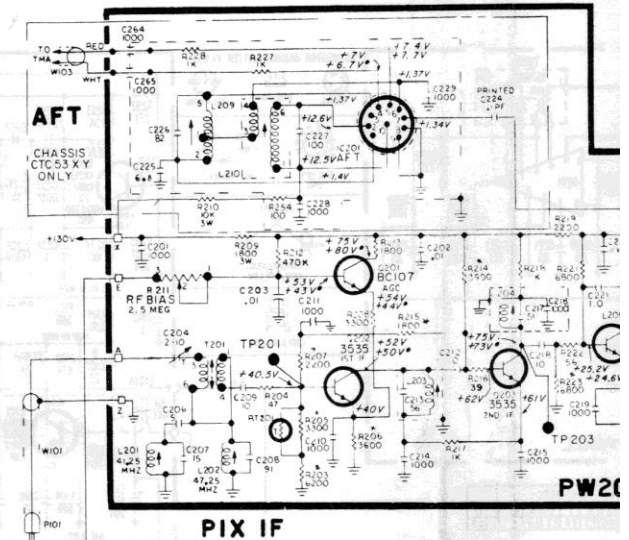
L1,L2	*62-133139	620 uh.
L3	*62-133179	6.8 uh.
L4	*62-131229	8.2 uh.
L105A,B	62-20570	A/C line filter choke
L109	62-124807	degaussing
L110	62-22294	41.25 MHz.
L201	62-18947	41.25 MHz.
L202	62-20226	1st pix IF output
L203	62-21159	2nd pix IF output
L204	62-20228	3rd pix IF output
L205	62-20229	41.25 MHz.
L206	62-22462	12 uh.
L207	62-20230	AFT secondary, CTC53XY
L209	62-122203	AFT primary, CTC53XY
L210	62-21684	1.8 uh.
L211	62-109248	1.8 uh.
L214	62-109248	100 uh.
L216	62-21685	4.5 MHz.
L217	62-20232	36 uh.
L218	62-116056	1.8 uh.
L220	62-109248	sound discriminator
L299	62-21603	horizontal efficiency
L401	62-20438	5.6 uh.
L402	62-109171	5.6 uh.
L403	62-109171	horizontal sinewave pin phase
L501A,B	62-14061	peaker
L601	62-130578	oscillator strength
L701	62-22812	27 uh.
L702	62-19031	220 uh.
L703	62-17739	straighten blue horizontal lines
L709	62-115438	right red/green vertical lines
L801	62-21313	right red/green horizontal lines
L802	62-21313	blue convergence exciter assembly (1463682-2)
L803	62-130719	blue convergence exciter assembly (1463682-2)
L804A,B	62-21543	green convergence exciter assembly (1463682-2)
L804A,B	*62-133106	green convergence exciter assembly (1463682-2)
L805A,B	62-21543	green convergence exciter assembly (1463682-5)
L805A,B	*62-133106	red convergence exciter assembly (1463682-2)
L806A,B	62-21548	red convergence exciter assembly (1463682-2)
L806A,B	*62-133106	red convergence exciter assembly (1463682-6)

TRANSFORMERS

T102	*62-22583	horizontal output
T103	*62-22820	audio output
T104	62-21665	vertical output
T105	*62-22821	filament
T201	62-127244	first pix IF input
T202	62-20266	third pix IF output
T299	62-21504	sound IF input
T601	62-22535	pin cushion
T701	62-21805	burst amplifier
T702	62-21544	1st chroma amplifier
T703	62-121559	3.58 MHz oscillator
T704	62-21602	second chroma amplifier

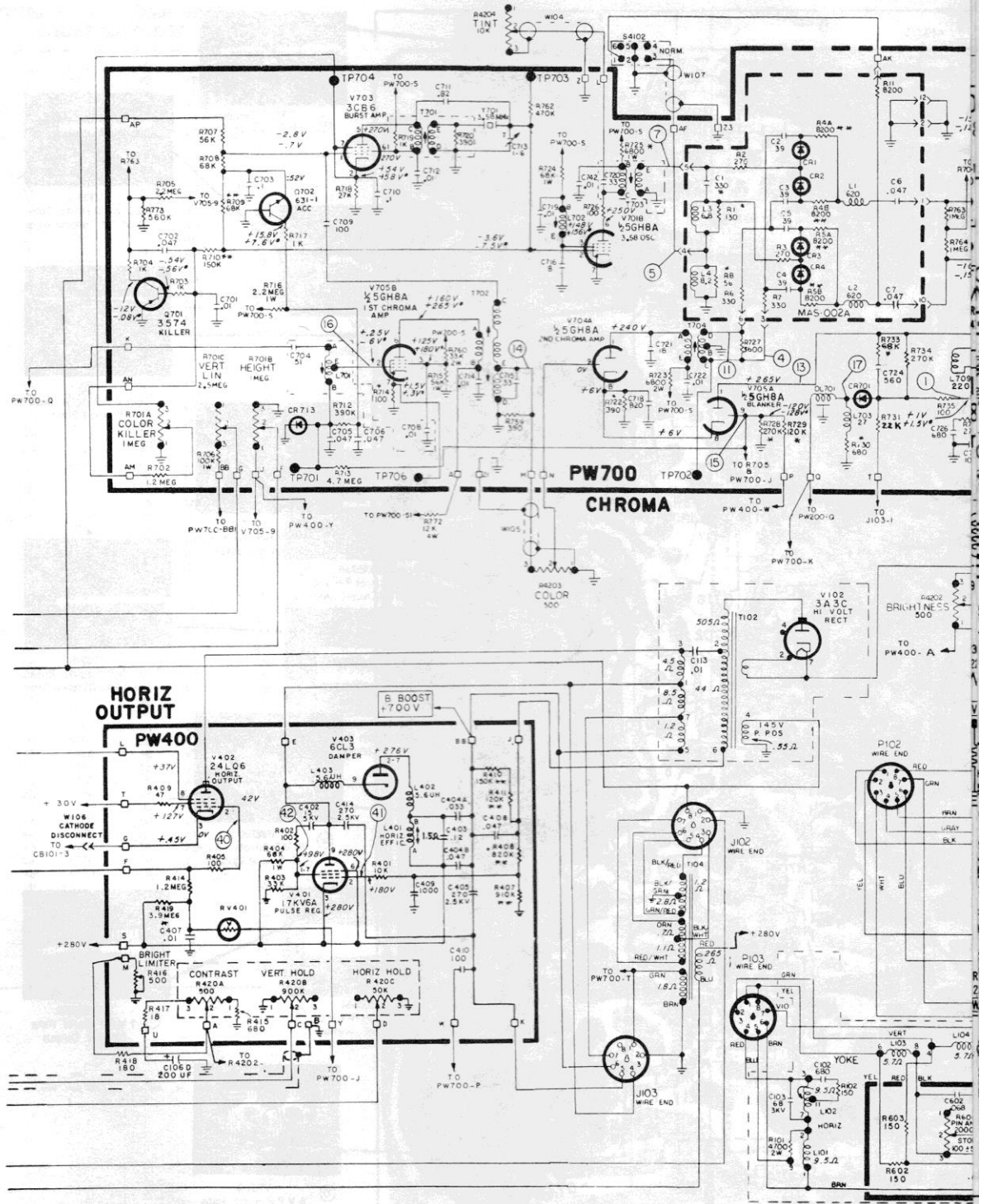


Socket Assembly



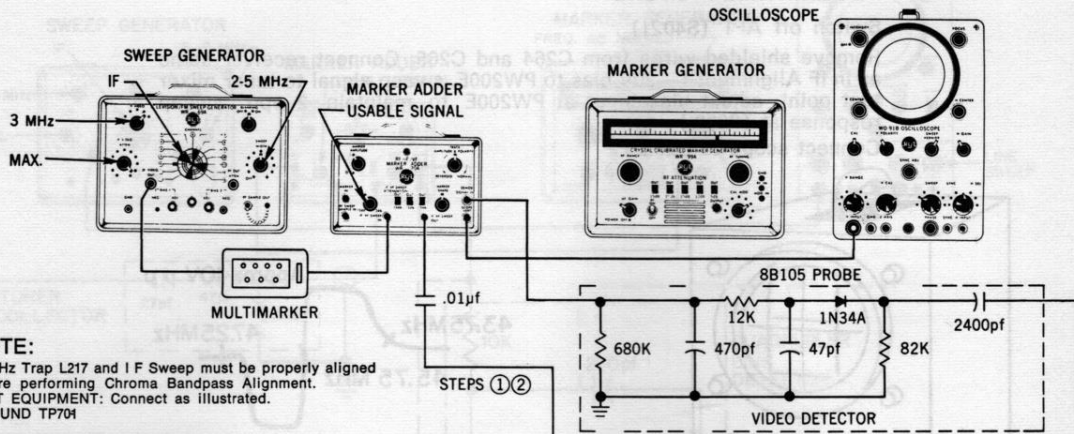
NOTES

1. RESISTANCE VALUE IN OHMS. K = 1000.
2. RESISTORS ARE 1/2 WATT EXCEPT AS NOTED.
3. * INDICATES 5% TOLERANCE (REPLACE ONLY WITH APPROVED PARTS)
4. * INDICATES 2% TOLERANCE
5. CAPACITANCE VALUES 1.0 AND ABOVE ARE IN PF, THOSE BELOW ARE UF EXCEPT AS INDICATED.
6. INDUCTOR VALUES IN uH EXCEPT AS INDICATED.
7. VOLTAGES ARE MEASURED TO CHASSIS GROUND WITH A "VOLTHOMYS (NO SIGNAL) AND SHOULD HOLD WITHIN 20% AT RATED SUPPLY VOLTAGE.
8. BALLOONS (O) ETC. SHOWN ON SCHEMATIC INDICATE POINTS OF OBSERVATION OF WAVEFORMS.
9. V* INDICATES VOLTAGES MEASURED WITH SIGNAL.
10. ALL TUNER SWITCHES ARE SHOWN IN CHANNEL 13 POSITION.
11. FOR CONTINUED X-RADIATION PROTECTION REPLACE TUBE WITH ORIGIN TYPE, INCLUDING SUFFIX LETTER, OR RCA APPROVED TYPE ONLY.



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CHROMA BANDPASS ALIGNMENT



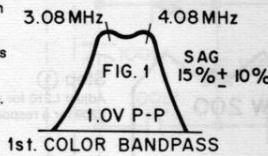
NOTE:
4.5MHz Trap L217 and IF Sweep must be properly aligned before performing Chroma Bandpass Alignment.
TEST EQUIPMENT: Connect as illustrated.
GROUND TP701

PRELIMINARY STEPS.

Do not change IF Bias Voltage as determined in IF Sweep Alignment -20V DC to PW200E. Approx. +45V DC at base of Q201, AGC Transistor.)
Set Color Killer Control maximum CCW, Color Saturation Control and Tint Control to midrange.
Video Det. Probe to PW700-N.
Connect IF/Video (3.0MHz) Sweep to first Bandpass Cathode (TP706)
Calibrate scope on 1.5V P-P range.
Adjust Sweep input to produce 1.0V P-P response on scope.

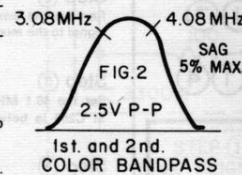
STEP 1

1ST BANDPASS ALIGNMENT
Adjust T702, top and bottom cores for response as illustrated in Fig. 1. (Outside peaks)
Top core determines marker position (equal markers) bottom core sets Tilt (equal amplitude).



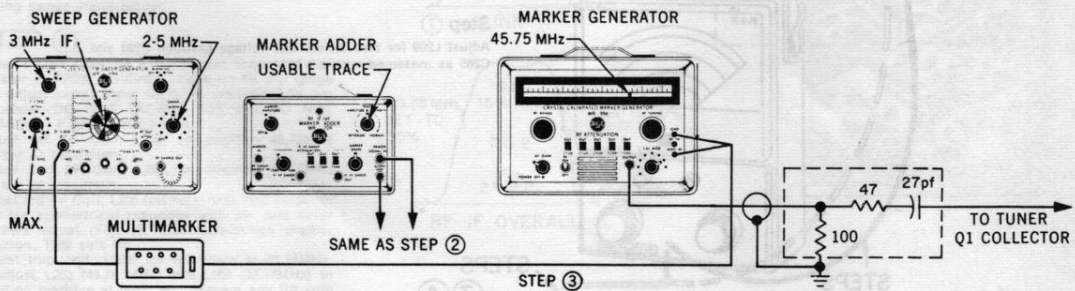
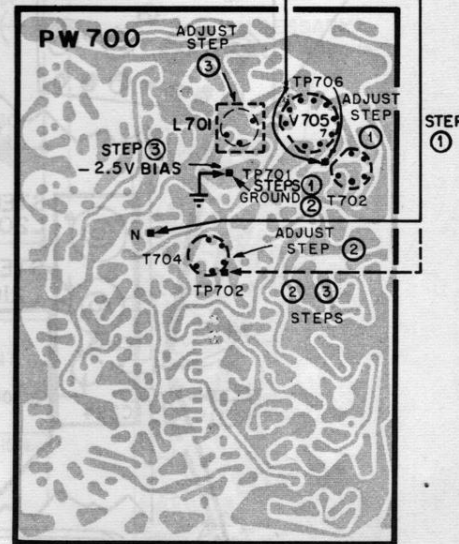
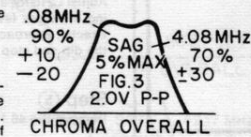
STEP 2

2ND BANDPASS ALIGNMENT
Remove Video Det. probe from PW700-N and connect to TP702.
Calibrate scope on 5.0V P-P range.
Attenuate sweep to produce 2.5V P-P response on scope. DO NOT EXCEED 2.5V P-P
Adjust T704 for response as illustrated in Fig. 2, with core adjusted to outer peak and markers equal.



STEP 3

Modify test equipment hook-up as illustrated below. Connect a VTVM to TP202 on PW200 (0-50V scale). Remove ground from TP701. Connect a -2.5V DC bias to TP701. Adjust R F attenuation to obtain a DC voltage change of 1V DC at TP202 (video detector) between the presence and absence of signal (switch generator on and off as needed to meet "change" conditions).
Adjust peaker coil, L701, (bottom peak) for response illustrated (Fig. 3). There should be no peak between the 3.08 MHz and 4.08 MHz markers.



AFPC ALIGNMENT

PRELIMINARY STEPS:

Return receiver to normal operating condition.
Adjust receiver for normal viewing.
Connect color bar generator to Antenna Terminals.
Center Tint control to 50% of its mechanical range.
Turn killer control full CCW.
Turn AFT and accu-tint switch off.
Ground TP701 to disable ACC.
Connect TP704 to +280V (PW 700-S), in series with 39K 2w. resistor, to cut off Burst Amplifier.
If 3.58 oscillator is inoperative, use trimmer capacitor C713 to make oscillator run.

STEP ①

Connect VTVM to TP703.
Adjust C713 for zero beat.
Adjust T701 for minimum DC voltage.
If coil adjusts to two (2) dips, use dip away from mounting end of coil. Readjust C713 for zero beat.

STEP ②

Adjust L702 for -3.5V DC. If coil adjusts to two (2) peaks, use peak at mounting end of coil. Readjust C713 for zero beat.

STEP ③

Remove short at TP701 and bias at TP704. Adjust color control to approximately midrange (color must not be in saturation). Connect VTVM to CR2 anode on Demodulator Board. Connect scope to T703-E. Adjust T703 for maximum DC Voltage on VTVM. Observe scope at same time for symmetrical deviation while rocking Tint control. Signal @ TP703E should be equal with tint control fully CW or fully CCW. If coil adjusts to two (2) peaks, use peak at mounting end of coil.

STEP ④

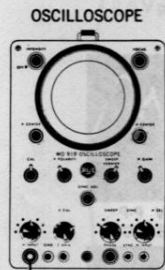
Place scope on R-Y output (PW700-3). Check to see that turning the tint control through its range moves null from 5 bars or less to 7 bars or more. If not, readjust transformer T703.

STEP ⑤

Set the tint control so that the 6th bar is cancelled. Place scope on B-Y output (PW700-12) and check to see that the bars null within $\pm 1/2$ bar at $3 1/2$ and $9 1/2$ bars on the scope. Check that G-Y output (PW700-7) nulls at $1 1/2$ and $7 1/2$ bars.

STEP ⑥

Turn the channel selector to a vacant channel (Snow) and adjust the color killer pot (R701A) until color snow just disappears. Check for optimum performance on all available channels.



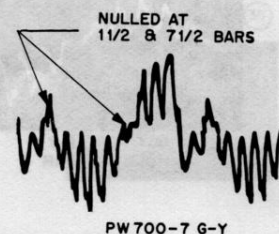
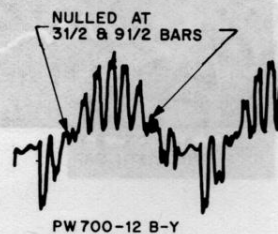
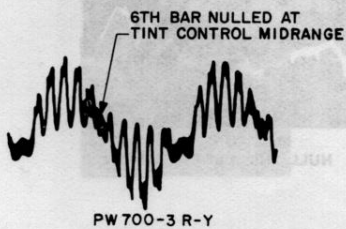
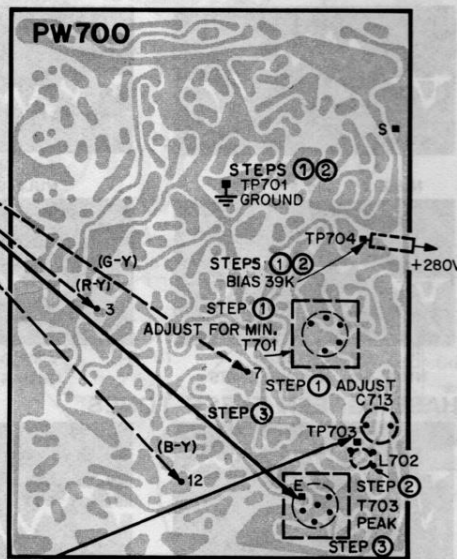
LOW CAP PROBE



VTVM

DIRECT PROBE

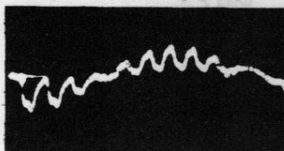
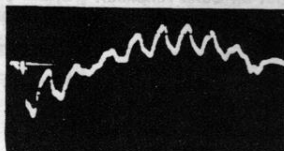
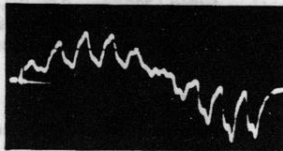
STEP ①



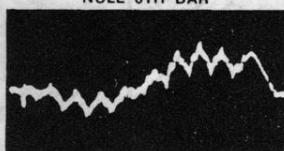
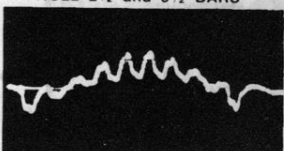
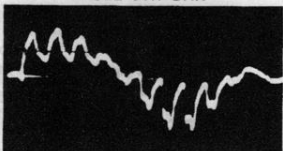
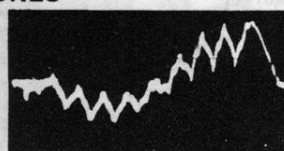
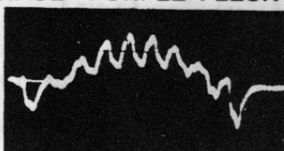
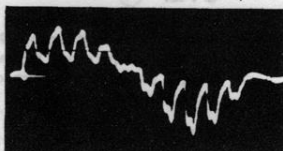
PICTURE TUBE GRID WAVEFORMS

The series of 18 waveforms below illustrate the demodulator gain and phase-angle changes resulting from the ACCU-TINT circuits. These were taken with a color bar pattern furnished by a WR-64B color-bar generator. Conditions of nominal phase, $+30^\circ$ and -30° are represented with the color circuits operating first with A-T "OFF" and second with A-T "ON"

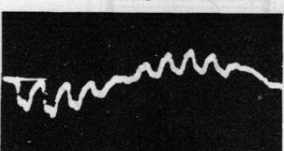
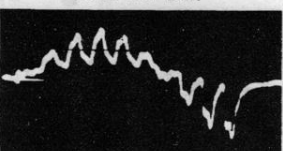
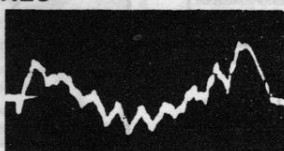
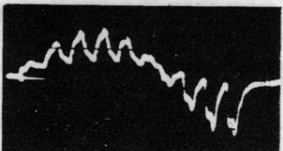
NOMINAL PHASE



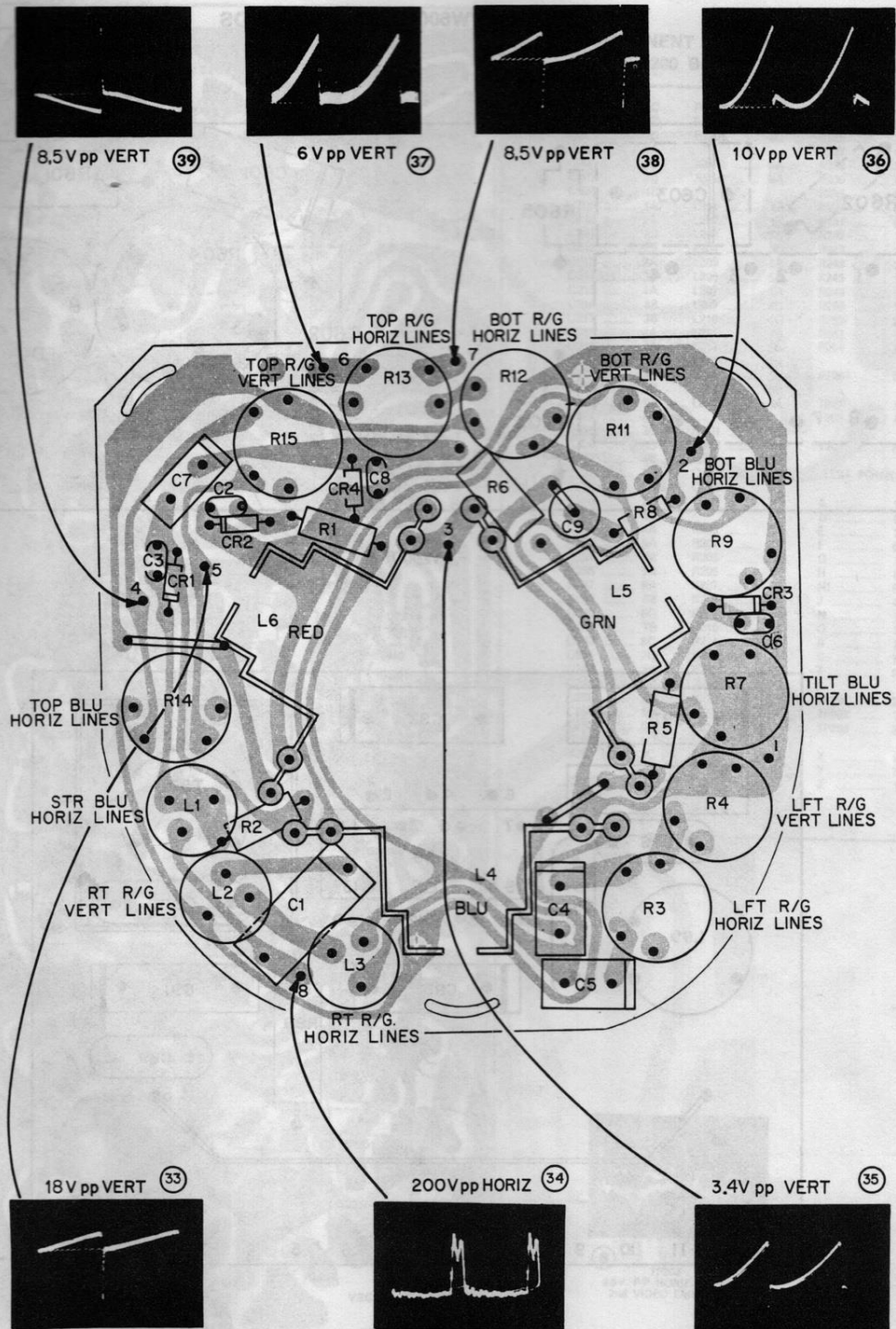
$+30^\circ$ PHASE—PURPLE FLESH TONES



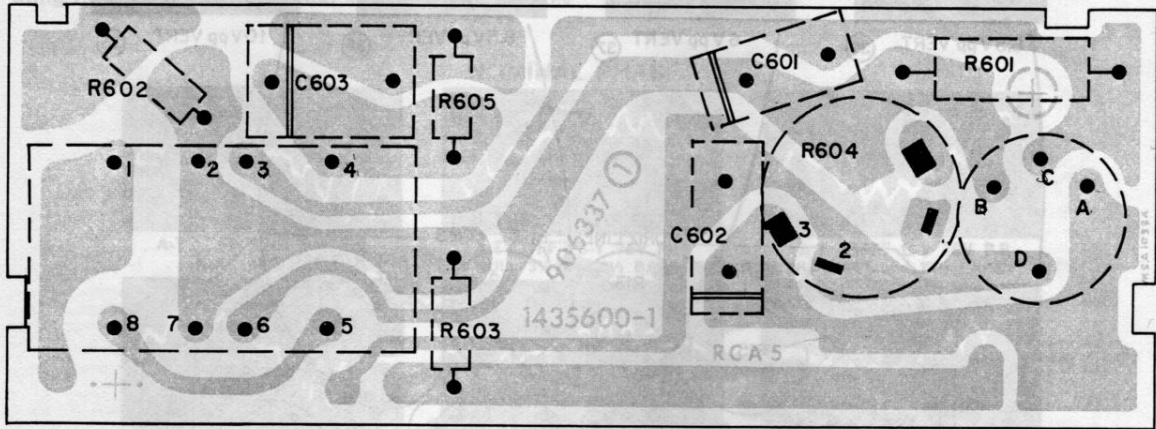
-30° PHASE—GREEN FLESH TONES



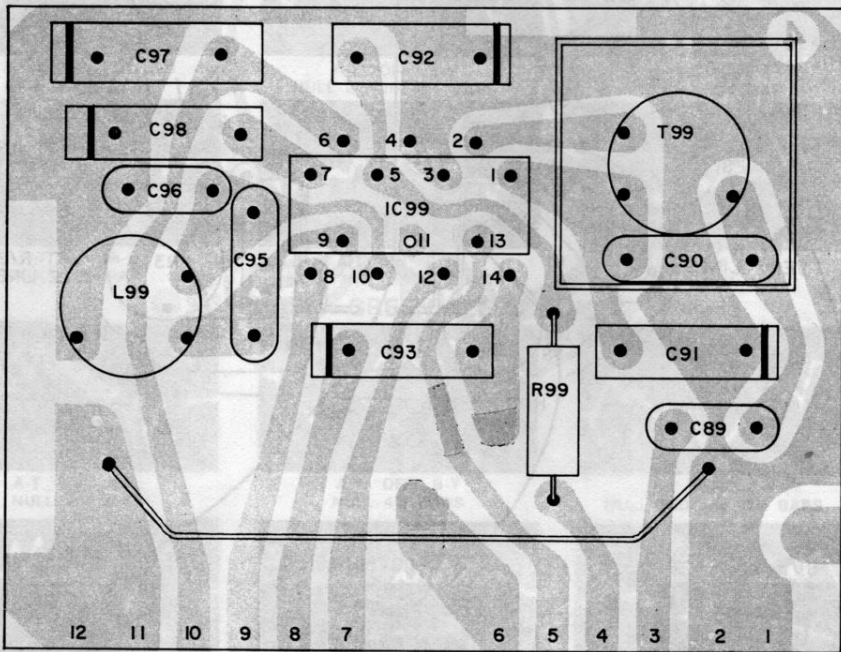
PW800 CONVERGENCE CIRCUIT BOARD



PM200 AND PW600 CIRCUIT BOARDS

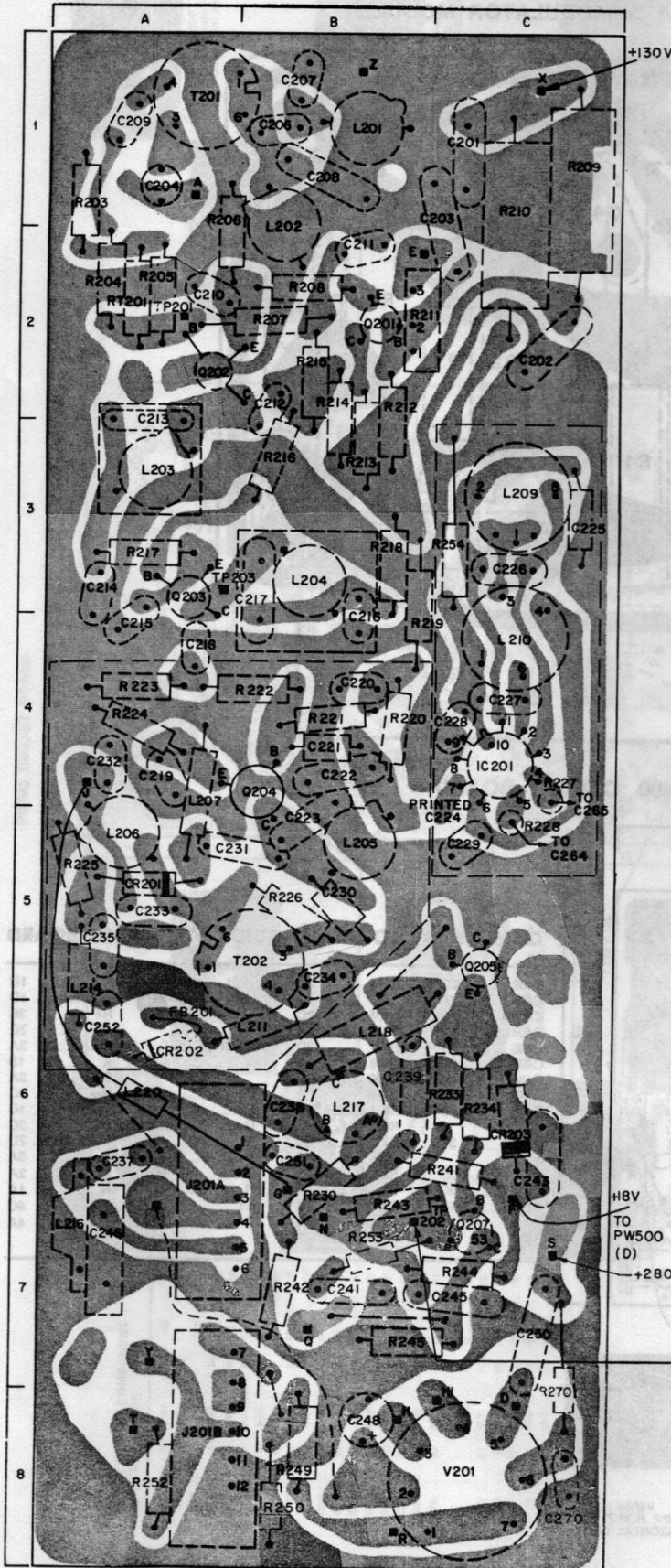


PW600



PM200

PW200 CIRCUIT BOARD



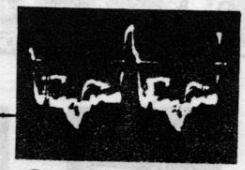
COMPONENT LOCATION GUIDE
FOR PW200 BOARD

C201	..... 1C	FB201	..... 6A	R224	..... 4A
C202	..... 2C	FB202	..... 6B	R225	..... 5A
C203	..... 1C	IC201	..... 4C	R226	..... 5B
C204	..... 1A			R227	..... 4C
C206	..... 1B	J201A	..... 6A	R228	..... 5C
C207	..... 1B	J201B	..... 8A	R230	..... 6B
C208	..... 1B			R233	..... 6C
C209	..... 1A	L201	..... 1B	R234	..... 6C
C210	..... 2A	L202	..... 1B	R241	..... 6C
C211	..... 2B	L203	..... 3A	R242	..... 7B
C212	..... 2B	L204	..... 3B	R243	..... 7B
C213	..... 2A	L205	..... 5B	R244	..... 7C
C214	..... 3A	L206	..... 5A	R245	..... 7B
C215	..... 4A	L207	..... 4A	R249	..... 8B
C216	..... 4B	L209	..... 3C	R250	..... 8B
C217	..... 3B	L210	..... 4C	R252	..... 8A
C218	..... 4A	L211	..... 6B	R253	..... 7B
C219	..... 4A	L214	..... 5A	R254	..... 3C
C220	..... 4B	L216	..... 7A		
C221	..... 4B	L217	..... 6B	RT201	..... 2A
C222	..... 4B	L218	..... 6B		
C223	..... 5B	L220	..... 6A	T201	..... 1A
C224	..... 5C			T202	..... 5B
C225	..... 3C	Q201	..... 2B	V201	..... 8C
C226	..... 3C	Q202	..... 2A		
C227	..... 4C	Q203	..... 3A		
C228	..... 4C	Q204	..... 4B		
C229	..... 5C	Q205	..... 5C		
C230	..... 5B	Q207	..... 7C		
C231	..... 5B				
C232	..... 4A	R203	..... 1A		
C233	..... 5A	R204	..... 2A		
C234	..... 5B	R205	..... 2A		
C235	..... 5A	R206	..... 1A		
C237	..... 6A	R207	..... 2B		
C238	..... 6B	R208	..... 2B		
C239	..... 6C	R209	..... 1C		
C241	..... 7B	R210	..... 1C		
C243	..... 6C	R211	..... 2B		
C245	..... 7C	R212	..... 2B		
C246	..... 7A	R213	..... 3B		
C248	..... 8B	R214	..... 2B		
C250	..... 7C	R215	..... 2B		
C251	..... 6B	R216	..... 3B		
C252	..... 6A	R217	..... 3A		
C264	..... 5C	R218	..... 3B		
C265	..... 4C	R219	..... 4B		
		R220	..... 4B		
		R221	..... 4B		
		R222	..... 4B		
		R223	..... 4A		
CR201	..... 5A				
CR202	..... 5A				
CR203	..... 6C				

TEST POINTS

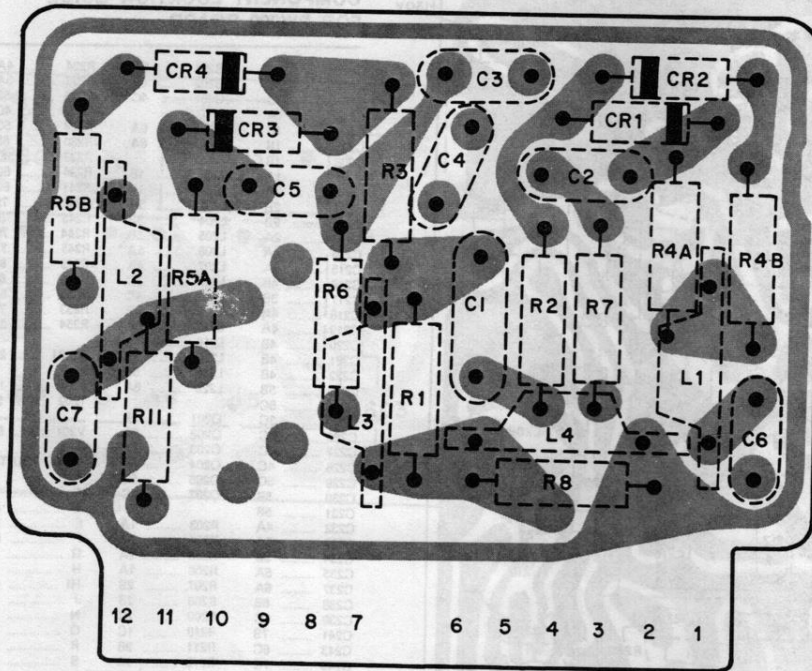
A	..... 1A
D	..... 8C
E	..... 2B
F	..... 6C
G	..... 7B
H	..... 8B
HI	..... 8C
J	..... 4A
N	..... 7B
O	..... 7B
R	..... 8B
S	..... 7C
T	..... 8A

H8V
TO
PW500
(D)
+280V

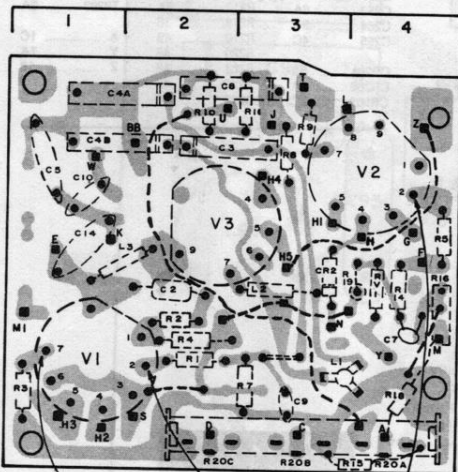


TP202
2.5V P-P HORIZ. RATE
2nd VIDEO EMITTER

MAS002A DEMODULATOR MODULE

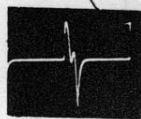


PW400 CIRCUIT BOARD

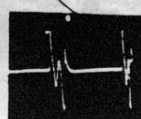


COMPONENT LOCATION GUIDE FOR PW400 BOARD

A	C402 2C	R402 2C	V401 1D	H2 1D
	C403 2A	R403 1D	V402 4B	H3 1D
	C404A 1A	R404 2C	V403 2B	H4 3B
B	C404B 1A	R405 4B		H5 3C
	C405 1A	R407 3D	TEST POINTS	
	C407 4C	R408 3A	A 4D	J 3A
	C408 2A	R409 3A		K 1B
	C410 1B	R410 2A		L 3A
	C414 1B	R411 3A		M 4C
C		R414 4C	BB 2A	N1 1C
	CR402 3C	R415 4D	C 2D	N 3C
		R419 4C	D 2D	S 2D
	L401 3D	R420A 4D	E 1B	T 3A
	L402 3C	R420B 3D	F 4B	U 2A
	L403 1C	R420C 2D	G 4B	W 1A
D			H 4B	X 4C
	R401 2C	RV401 4C	H1 3B	Y 4C
				Z 4A



42 V401-7
900V P-P HORIZ. RATE
PULSE REG. SCREEN

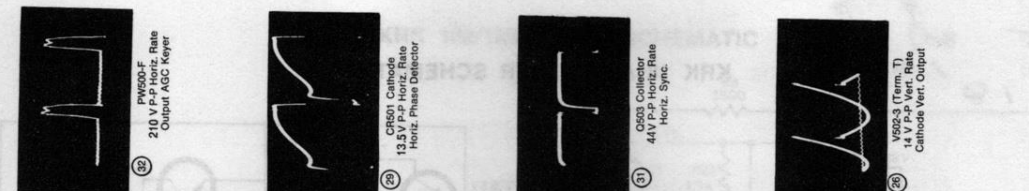
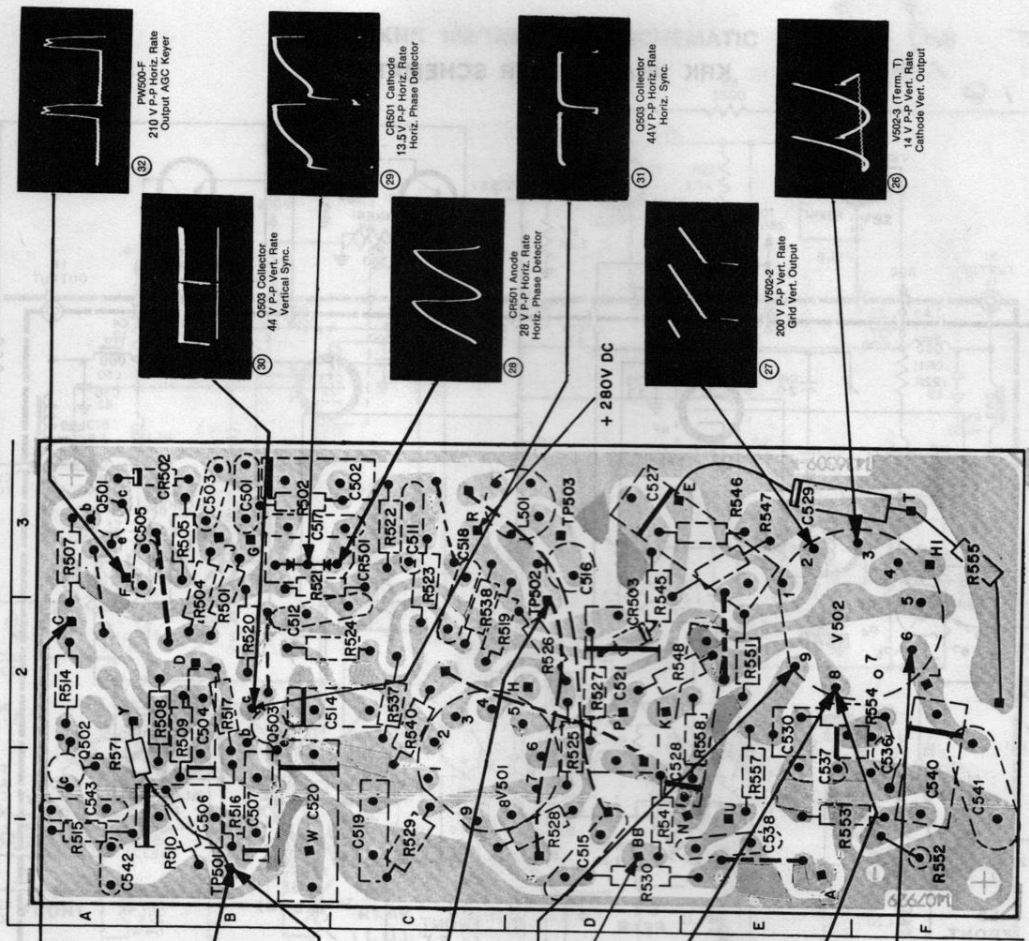


41 V401-2
100V P-P HORIZ. RATE
PULSE REG. GRID



40 V402-2
250V P-P HORIZ. RATE
HORIZONTAL DRIVE

PW5000 CIRCUIT BOARD

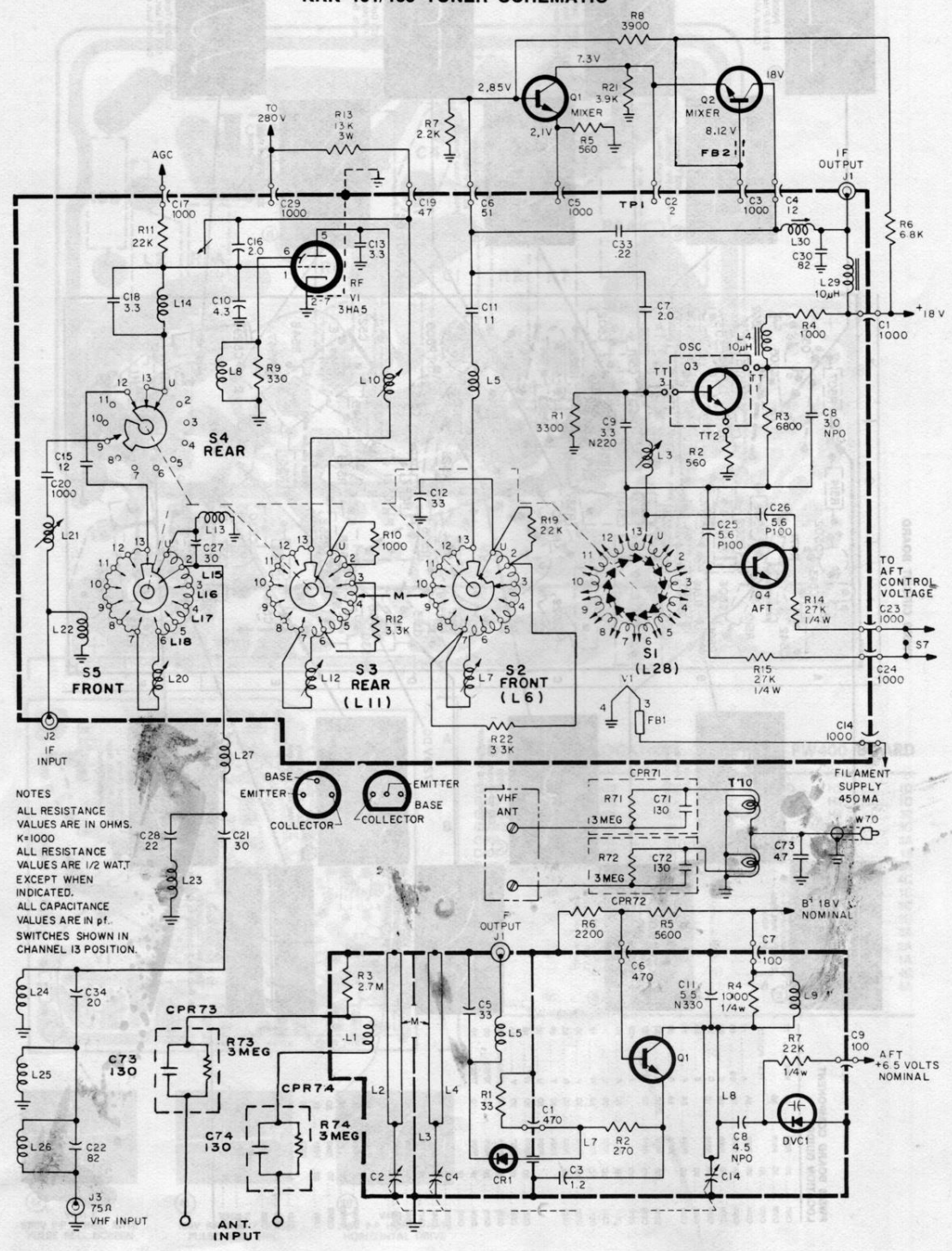


21 Terminal C
2.5 V p-p Vert. Rate
Sync. Input
 22 TP501
7.5 V p-p Vert. Rate
Output Sync. Amp.
 23 TP501
7.5 V p-p Vert. Rate
Output Sync. Amp.
 24 V502-3
12 V p-p Vert. Rate
Grid Vert. Output
with Grid Pin 8 Shorted to Ground
 25 V502-2
200 V p-p Vert. Rate
Grid Vert. Output
 26 V502-3 (Term. T)
14 V p-p Vert. Rate
Cathode Vert. Output
 27 V502-2
200 V p-p Vert. Rate
Grid Vert. Output
 28 CR501 Anode
28 V p-p Horiz. Rate
Horiz. Phase Detector
 29 CR502 Cathode
13 V p-p Horiz. Rate
Horiz. Phase Detector
 30 CR503 Collector
44 V p-p Horiz. Rate
Horiz. Sync.
 31 V502-3 (Term. T)
14 V p-p Vert. Rate
Cathode Vert. Output
 32 PW500-F
210 V p-p Horiz. Rate
Output AGC Keyer

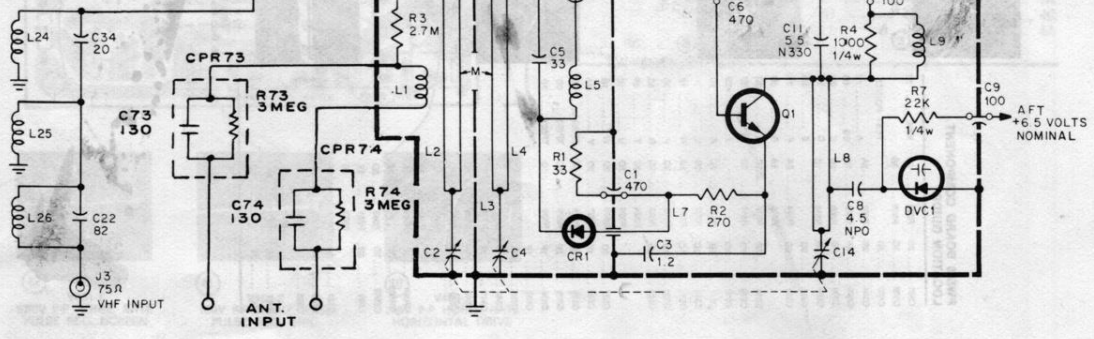
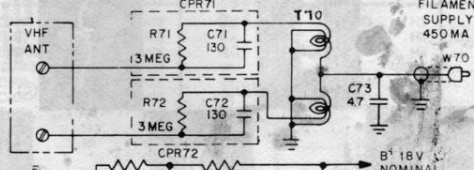
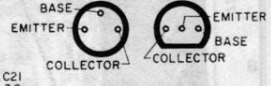
PW5000 BOARD COMPONENT LOCATION GUIDE

Component	Location	Component	Location
C501	3B	R504	2E
C502	3C	R505	3B
C503	3B	R507	3A
C504	2B	R508	2A
C505	3A	R509	2B
C506	1B	R510	1B
C507	3C	R511	3D
C508	2B	R512	2A
C509	1A	R513	3B
C510	1B	R514	3B
C511	1D	R515	3B
C512	1D	R516	3B
C513	1D	R517	3B
C514	1D	R518	3B
C515	1D	R519	3B
C516	1D	R520	3B
C517	1D	R521	3B
C518	1D	R522	3B
C519	1D	R523	3B
C520	1D	R524	3B
C521	1D	R525	3B
C522	1D	R526	3B
C523	1D	R527	3B
C524	1D	R528	3B
C525	1D	R529	3B
C526	1D	R530	3B
C527	1D	R531	3B
C528	1D	R532	3B
C529	1D	R533	3B
C530	1D	R534	3B
C531	1D	R535	3B
C532	1D	R536	3B
C533	1D	R537	3B
C534	1D	R538	3B
C535	1D	R539	3B
C536	1D	R540	3B
C537	1D	R541	3B
C538	1D	R542	3B
C539	1D	R543	3B
C540	1D	R544	3B
C541	1D	R545	3B
C542	1D	R546	3B
C543	1D	R547	3B
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C573	1D	R577	3B
C574	1D	R578	3B
C575	1D	R579	3B
C576	1D	R580	3B
C577	1D	R581	3B
C578	1D	R582	3B
C579	1D	R583	3B
C580	1D	R584	3B
C581	1D	R585	3B
C582	1D	R586	3B
C583	1D	R587	3B
C584	1D	R588	3B
C585	1D	R589	3B
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C772	1D	R776	3B
C773	1D</		

KRK 181/185 TUNER SCHEMATIC

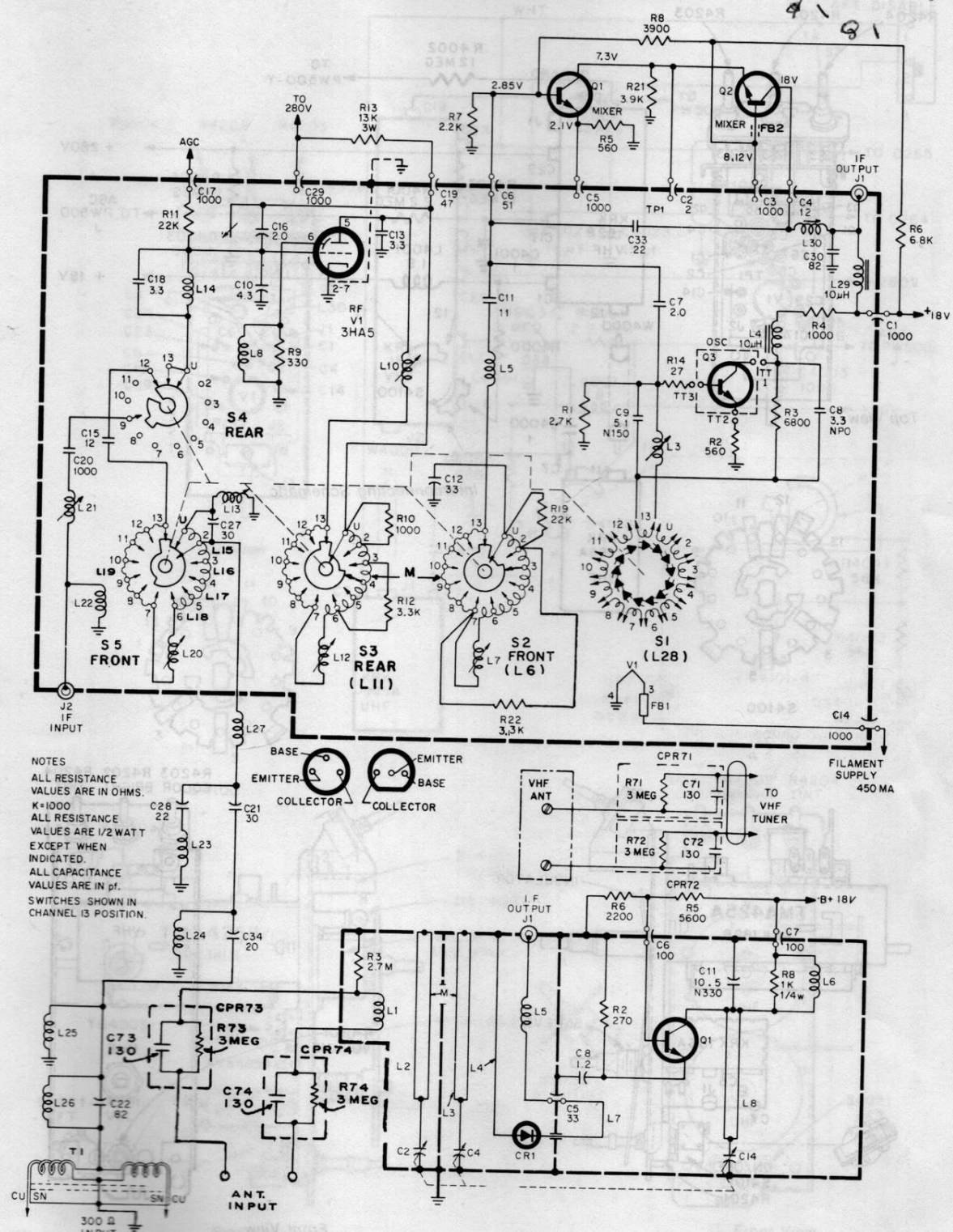


NOTES
ALL RESISTANCE
VALUES ARE IN OHMS.
K=1000
ALL RESISTANCE
VALUES ARE 1/2 WATT
EXCEPT WHEN
INDICATED.
ALL CAPACITANCE
VALUES ARE IN pF.
SWITCHES SHOWN IN
CHANNEL 13 POSITION.

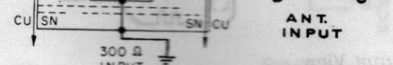
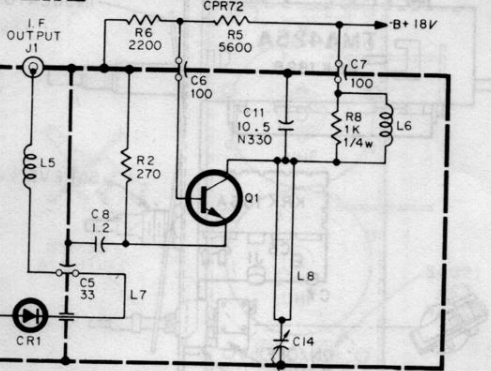
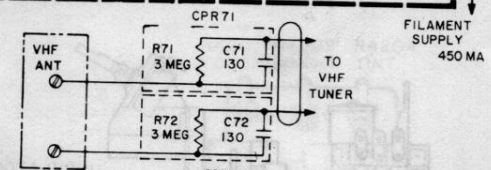
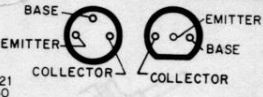


KRK 182/186 TUNER SCHEMATIC

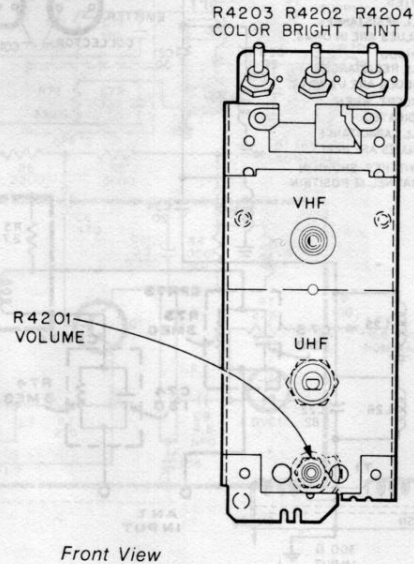
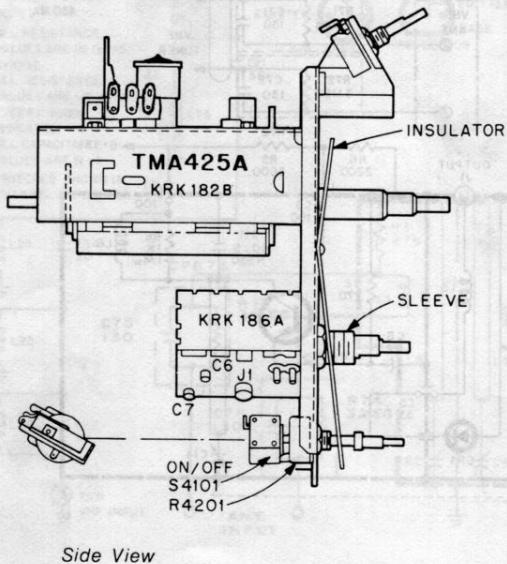
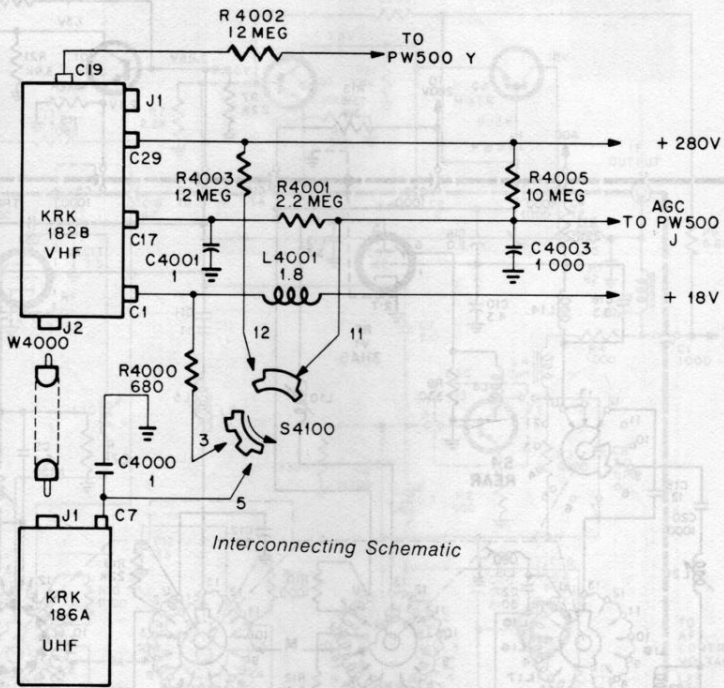
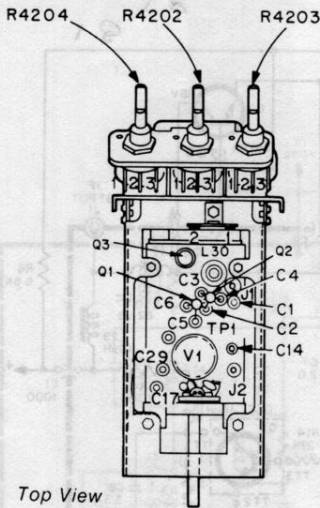
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NOTES
ALL RESISTANCE
VALUES ARE IN OHMS.
K=1000
ALL RESISTANCE
VALUES ARE 1/2 WATT
EXCEPT WHEN
INDICATED.
ALL CAPACITANCE
VALUES ARE IN pf.
SWITCHES SHOWN IN
CHANNEL 13 POSITION.



TUNER MOUNTING ASSEMBLY 425A



TUNER MOUNTING ASSEMBLY 425B

