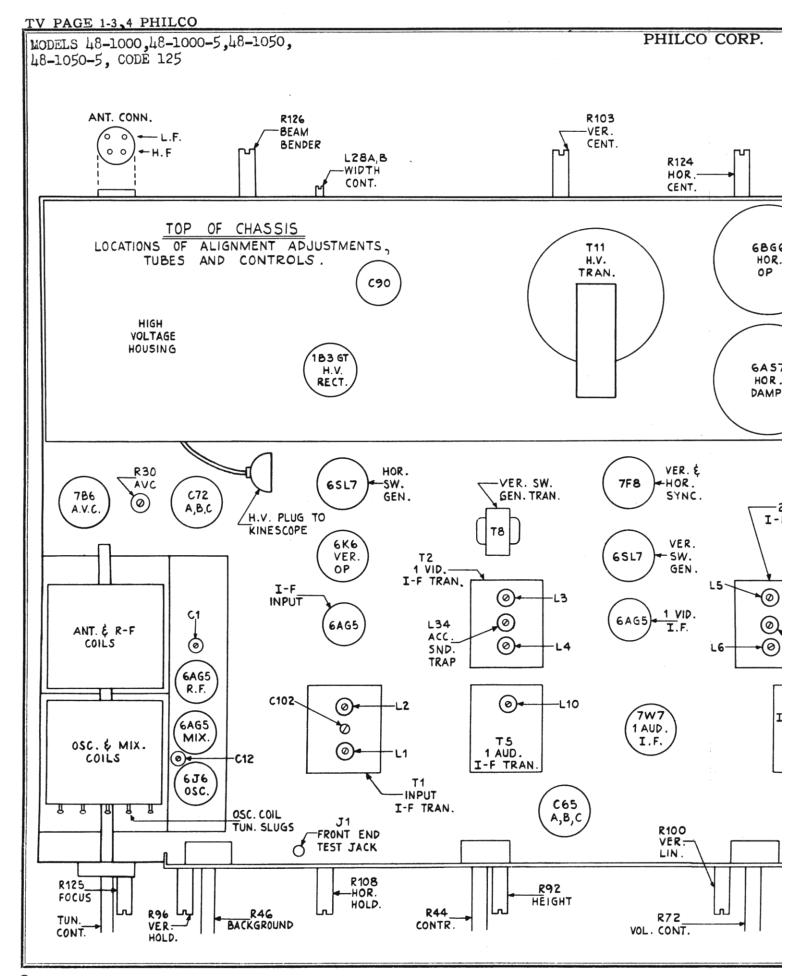
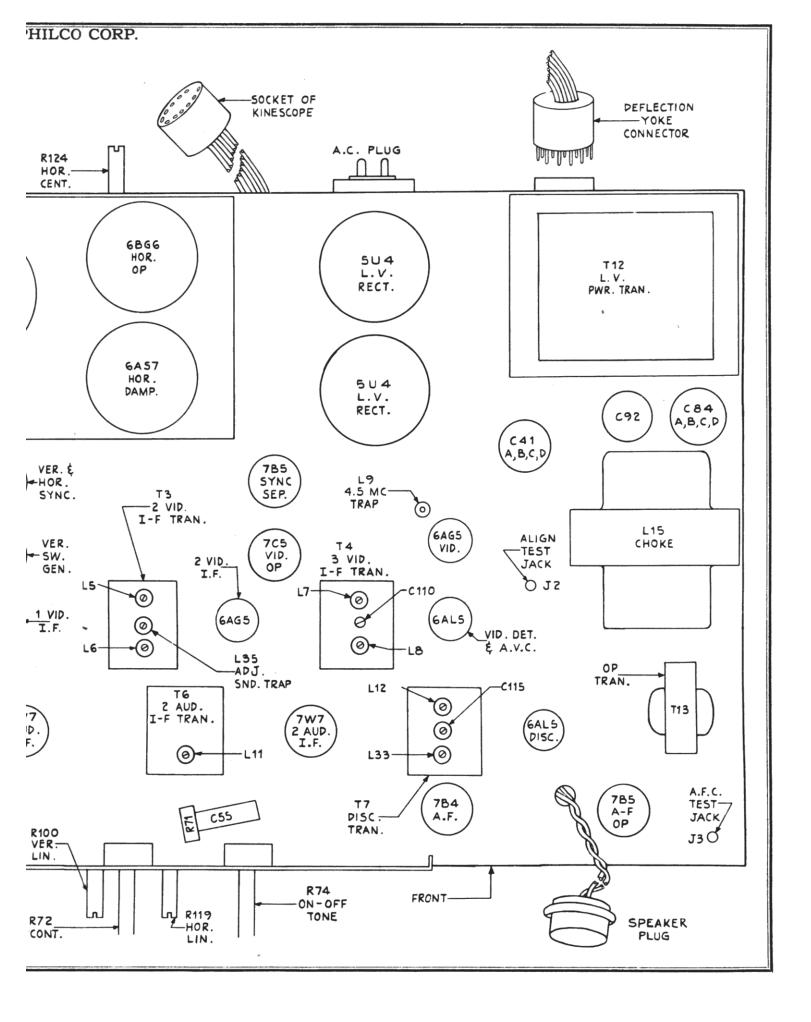
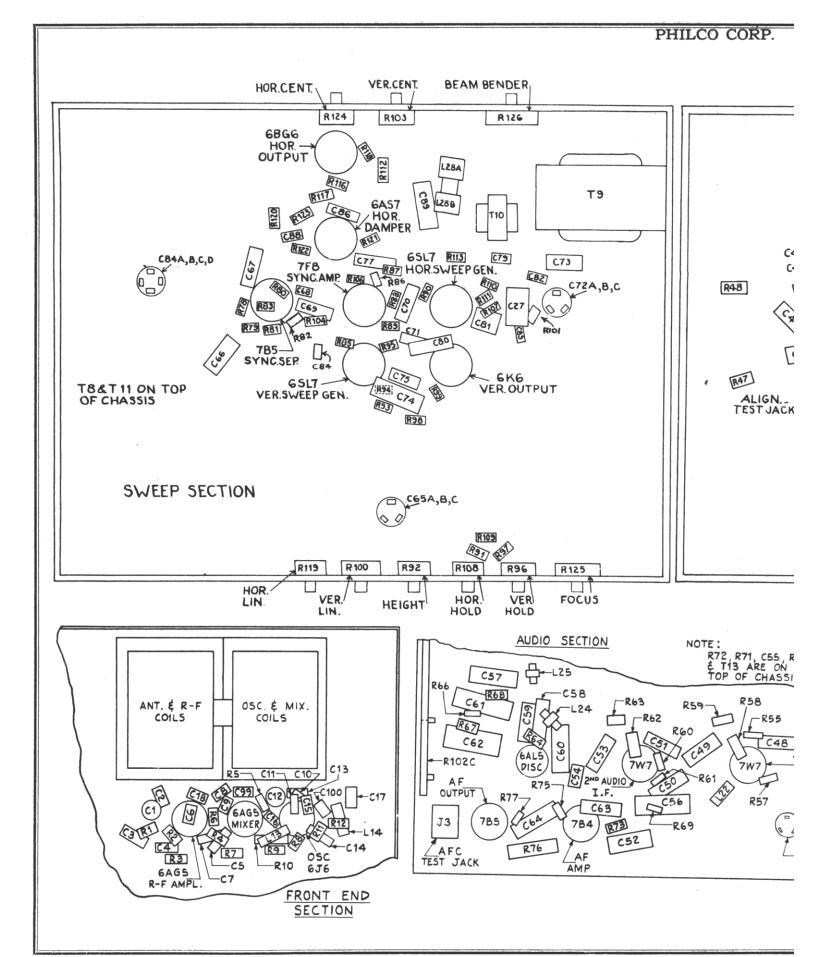


HI.VOLT. RECT. (1B3)



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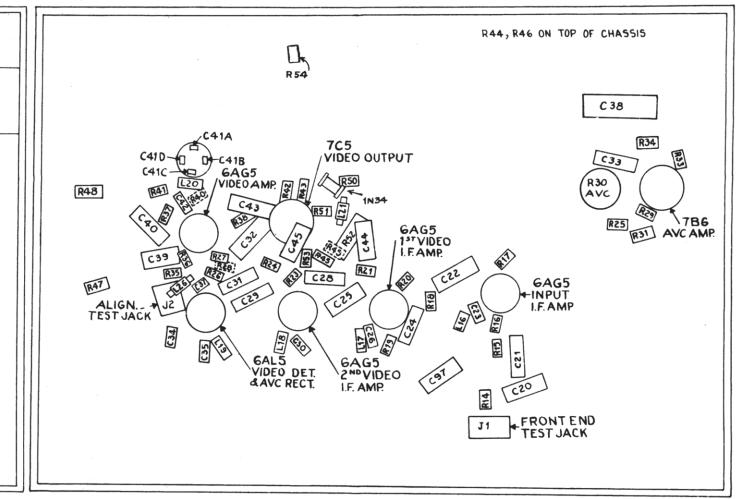




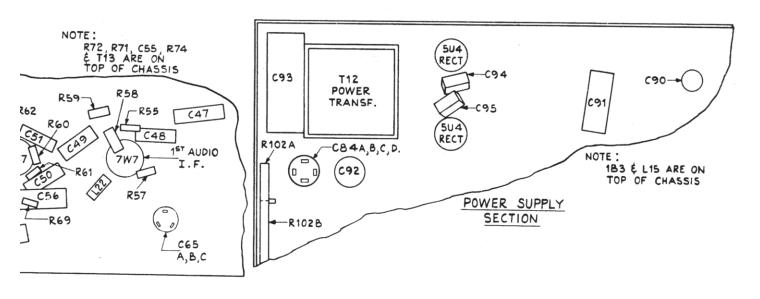
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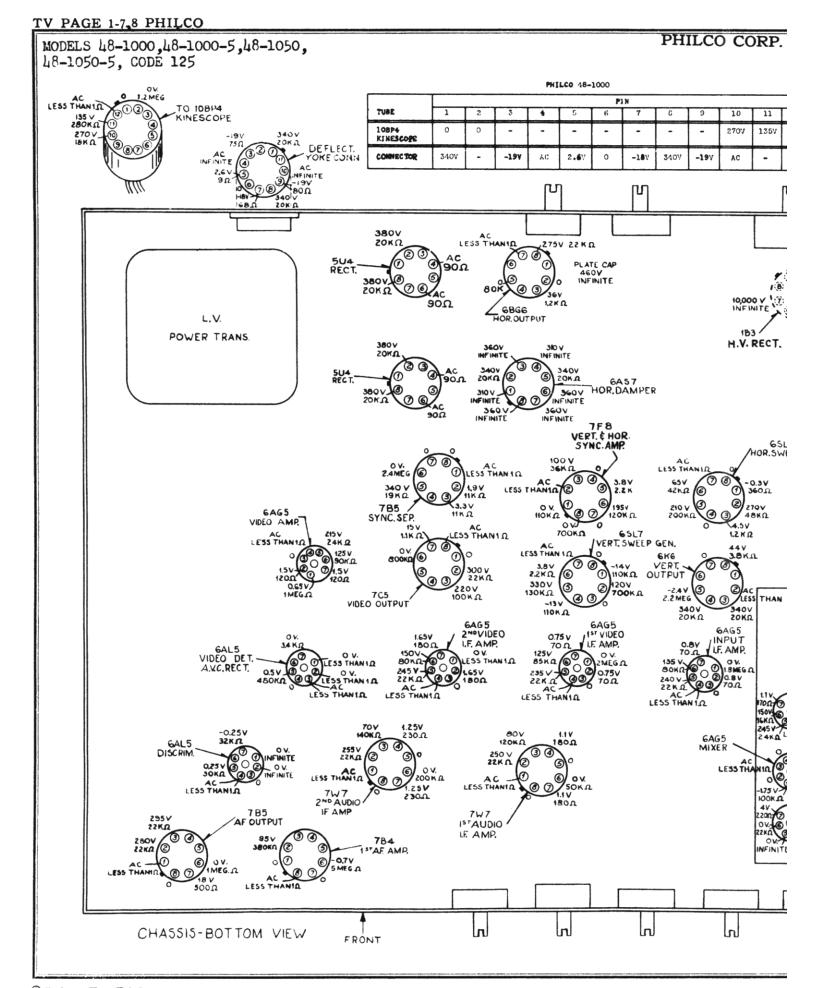
PHILCO CORP.

MODELS 48-1000,48-1000-5,48-1050, 48-1050-5 CODE 125

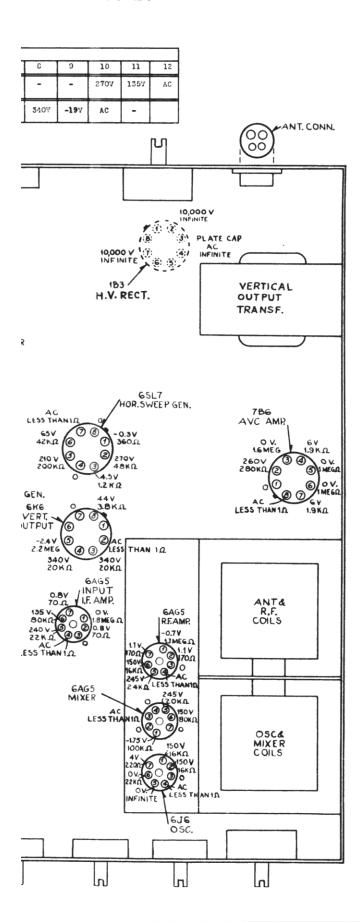


VIDEO SECTION





PHILCO CORP.



VOLTAGES IN TABULAR FORM ARE TAKEN WITH A 20,000 OHM PER VOLT METER

NOTES ÷
VOLTAGES SHOWN ON DRAWING ARE YTYM

READINGS.

BLANK PINS SHOW NO CONNECTIONS.

ALL VOLTAGE AND RESISTANCE MEASUREMENTS

ARE MADE WITH RESPECT TO CHASSIS GROUND AND

WITH A LINE VOLTAGE OF 117 VOLTS.

ALL OPERATING CONTROLS ARE SET AT MAXIMUM COUNTER CLOCKWISE, EXCEPT ON-OFF SWITCH ON TONE CONTROL WHICH IS SET AT "ON" POSITION.

SET IS TUNED ON CHANNEL 3.
ALL SCREW DRIVER ADJUSTMENTS ARE IN NORMAL OPERATING POSITIONS.

TUBE	1	2	3	PIN 4	5	6	7	8	PLATE CAP.
6A65 RF AMP	0	0.5v	0	AC	245V	1507	0.57		
6J6 08C	1000	100V	0	AC	0	0	3.6V		
6AG5 1'IXER	-0.67	100V	0	AC	0	0	3.6V		
GAGS INFUT IF	0	0.87	0	AC	240V	135V	0.87		
6AG5 lst 7IDEO IF ALP	0	0.75V	0	AC .	2357	125V	o.75v		
6AG5 2nd VIDEO IF AMP	0	1.5V	0	AC	245V	150V	1.57		
6AL5 VIDEO DET & AVC RECT	0	0	DA	0	0.237	-	0		
756 AVC AMF	0	260V	0	173	0	0	67	AC	
GAG5 VIDEC Al'P	0	1.5V	0	AG	2150	1257	1.57		
7C5 VIDEG CUTTUT	0	3007	220V	-	-	0	157	AC	
7H7 1st AUDIC IF ATP	AC	250	807	1.17	0	0	1.17	D	
7.77 2nd AUDIO IF AMP	AC	255	7 0V	1.25V	0	0	1.257	0	
SALS DISCRIMINATOR	0	0	0	AC	0.17	-	-0.17		
7B4 lst AF AL'P	0	95V	-	-	-	-0.26V	0	AC	
7B5 AUDIO OUTFUT	AC	260V	2957	-	-	0	187	0	
735 SYNC SEP.	AC.	1.67	3.0V	-	340V	0	9	0	
7F8 VERT & HOR SYNC ALP.	0	AC	1007	0	3.87	1957	0	0	
CSL7 VERT SWEEF GEN.	-147	120V	0	-13V	330V	3.87	AC	0	
GGL7 HOR. SWHEP GEN.	-0.37	270¥	4.5V	0	2107	G 5V	VC.	0	
SH6 VERT OUTPUT	-	AC	340V	340V	0	-	0	441	
6BG6 FOR. OUTPUT	-	0	26V	-	0	-	AC	2757	460
GAS7 FOR DAUFTR	3107	34CV	3607	310V	3407	3607	360	3607	
5U4 RECT.	-	380V	-	AC	-	AC	-	350V	
5U4 RECT.	-	3809	-	AC	-	AC	-	380V	
183 HV.HECT.	-	100000	-	-	-	-	100007	-	AC

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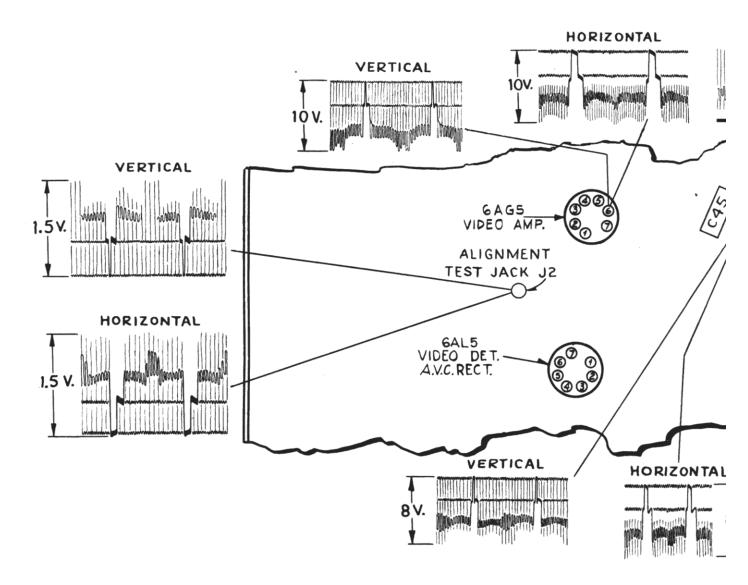
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pictu

mitte

pulse

helpf



The waveforms shown were taken with an RCA WO-79A Oscilloscope. This oscilloscope has a wide-band vertical amplifier which is desirable when observing waveforms. An antenna was connected to the receiver and the receiver was tuned to a station on the air at the time.

The voltages given for the different waveforms are those obtained when the input signal is sufficient to produce a 1.5 volt signal at the output of the video detector. All voltages given with reference to waveforms are peakto-peak voltages. For several test-points, two waveforms are shown, one marked horizontal and the other vertical. These are the same signal, but the oscil-

PHILCO TV PAGE 1-9-10

PHILCO CORP.

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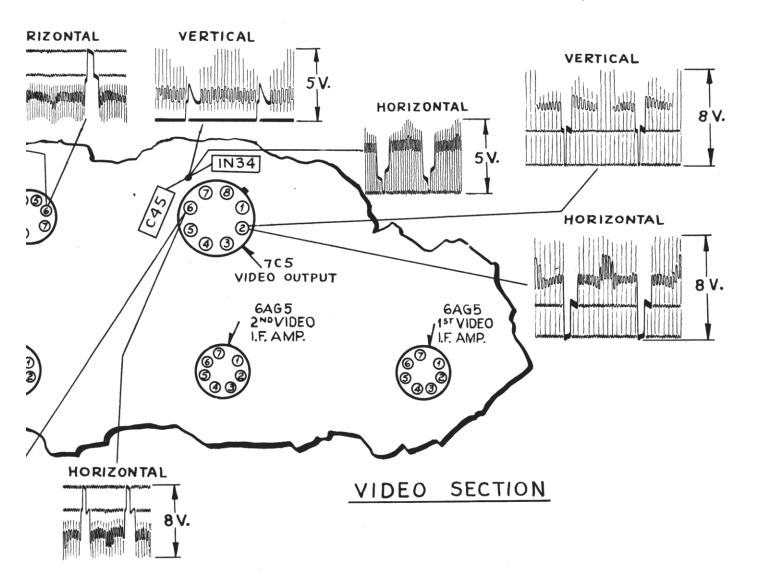
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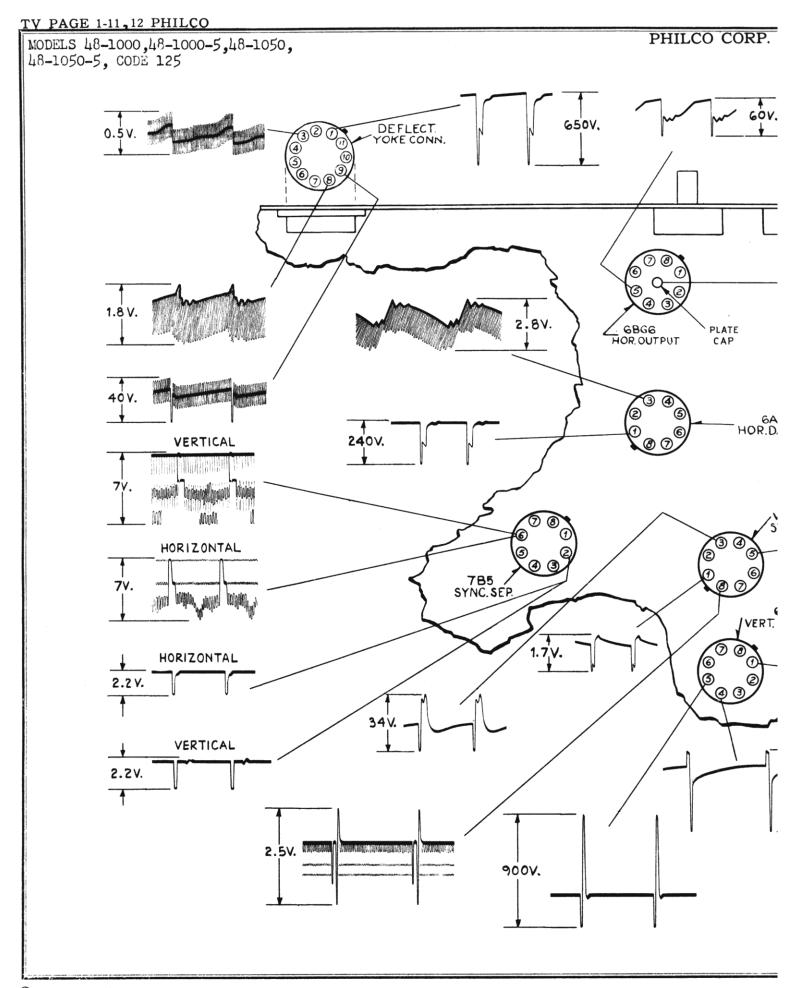
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MODELS 48-1000,48-1000-5,48-1050, 48-1050-5, CODE 125

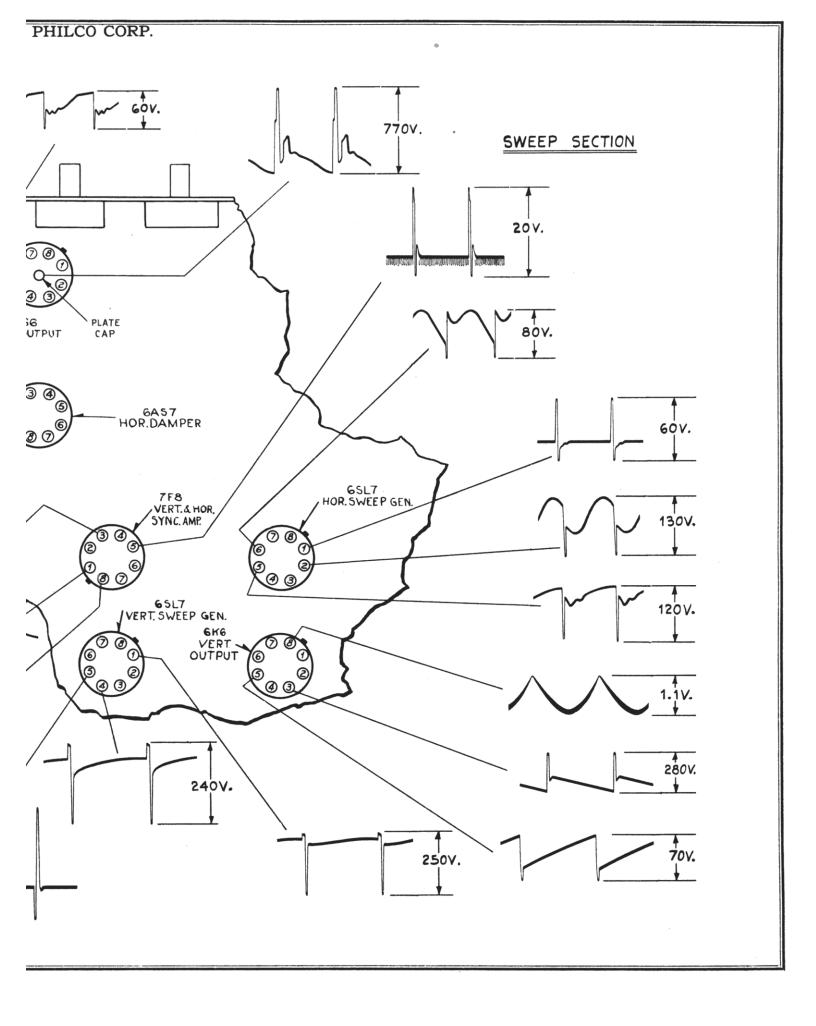


can be observed. For the horizontal pattern, the oscilloscope sweep is set at half the frequency of the horizontal sync pulses (15,750 cps) and for the vertical pattern, the oscilloscope sweep is set at half the frequency of the vertical sync pulses (60 cps). This will produce two cycles of each pulse on the oscilloscope screen

The background pattern observed on some of the waveforms is due to the picture content of the signal. This will change with the picture being transmitted at the time, and is not especially significant. As a rule, the sync pulses and sweep signals at the various points in the circuit will be more belpful in the servicing of a television receiver, than the picture signal.



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MODELS 48-1000,48-1000-5, 48-1050,48-1050-5, CODE 125

ALIGNMENT PROCEDURE

TEST EQUIPMENT

CATHODE RAY OSCILLOSCOPE - Any good scope will be satisfactory for alignment. However for observing waveforms at the different test points in the receivers, an oscilloscope with a wide-band vertical amplifier response (about 2.5 mc's) should be used.

SWEEP GENERATOR - The signal generator should cover the following range of center frequencies with the indicated sweep widths.

18 - 30 mc with a 10 mc sweep

44 - 88 mc with a 10 mc sweep

174 - 216 mc with a 10 mc sweep

4.5 mc with a 2 mc sweep

The output of the signal generator should be continuously variable with a maximum output of at least 0.1 volt.

A horizontal sweep output from the sweep signal generator to the oscilloscope is desirable.

MARKER SIGNAL GENERATOR

This signal generator should cover the following frequency ranges:

18 - 30 mc

44 - 88 mc

174 -216 mc

2 - 6 mc

The output of this signal generator should be continuously variable with a maximum output of at least 0.1 volt.

Any All signal generator with an accurate frequency calibration may be used to obtain the marker required for response patterns.

VACCUM TUBE VOLTMETER - A VTVM with a low d-c volt scale of approximately 3 volt and at least a 10-megohm input resistance is desirable. A VTVM with a zero-center movement is useful.

AUDIO I-F ALIGNMENT

- 1. Set marker generator at 22.1 mc and loosely couple to grid of input IF amp (pin #1 6AG5). Connect VTVM to AFC Test Jack (J3). If necessary to obtain reading unbalance discriminator slightly by adjusting L33.
- 2. Adjust L12, L11 and L10 (in given order) for maximum reading.
- 3. Adjust L33 for zero indication.
- 4. Without changing setting of marker signal generator add AM. Connect scope to Align Test Jack (J2). Adjust accompanying sound trap (L34) for minimum output on scope.
- 5. Set marker generator for 28.1 mc with modulation and adjust adjacent sound trap (L35) for minimum output on scope.
- 6. Loosely couple sweep generator to grid of input IF Amp. (pin #1 6AG5), and set it at 22.1 mc with a 2 mc sweep. Also loosely couple marker generator to same point. (Note: Do not directly connect the two generators) Connect scope to AFC Test Jack (J3). Adjust Cl15 for symmetrical response as shown in Fig. A. If necessary retouch L12 and L53 for proper response.

MODELS 48-1000,48-1000-5, PHILCO CORP. 48-1050,48-1050-5 CODE 125 VIDEO I.F. ALIGNMENT

- 1. Set the sweep generator to 25 mc with a 10 mc sweep and connect to grid of 2nd Video IF Amp. (pin #1 6AG5). Loosely couple marker generator to grid of mixer (pin #1 6AG5). Connect vertical input of oscilloscope to the alignment Test Jack (J2). Connect the sweep output of sweep generator to the horizontal input of scope.
- 2. Adjust CllO to obtain just one peak on response curve.
- 3. Set marker frequency to 27.1 mc and adjust L7 and L8 for peak.
- 4. Set marker to 23.25 mc and adjust CllO for a peak.
- 5. If necessary readjust L7 and L8 for equal peak amplitudes as shown in Fig. B.
- 6. With scope and marker generator connected as in step 1, connect sweep gento grid of 1st Video IF Amp. (pin #1 6AG5). Adjust L5 and L6 to obtain Fig. C.
- 7. With scope and marker generator connected as in step 1, connect sweep generator to grid of Input IF Amp. (pin 1 6AG5) and adjust L3 and L4 to obtain Fig. D.
- 8. With the scope and marker generator connected, as in step 1, connect sweep generator to grid of mixer (pin 11 6AG5) and adjust L1, L2 and C102 to obtain Fig. E. It may be necessary to retouch L3 and L4 to obtain this response.

 VIDEO TRAP ADJUSTMENT

Connect the scope to the plate of the video output tube (pin #2 705). Set marker generator at 4.5 mc with maximum output and connect to grid of video amplifier (pin #1 6AG5). Adjust L9 for minimum signal on scope.

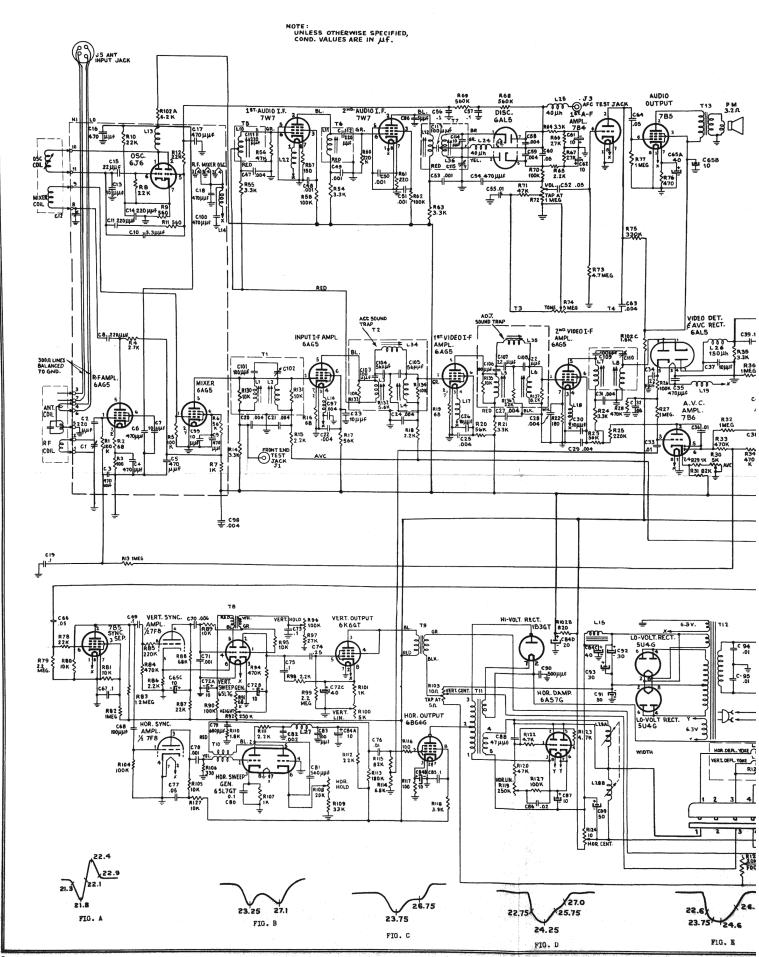
FRONT END ALIGNMENT

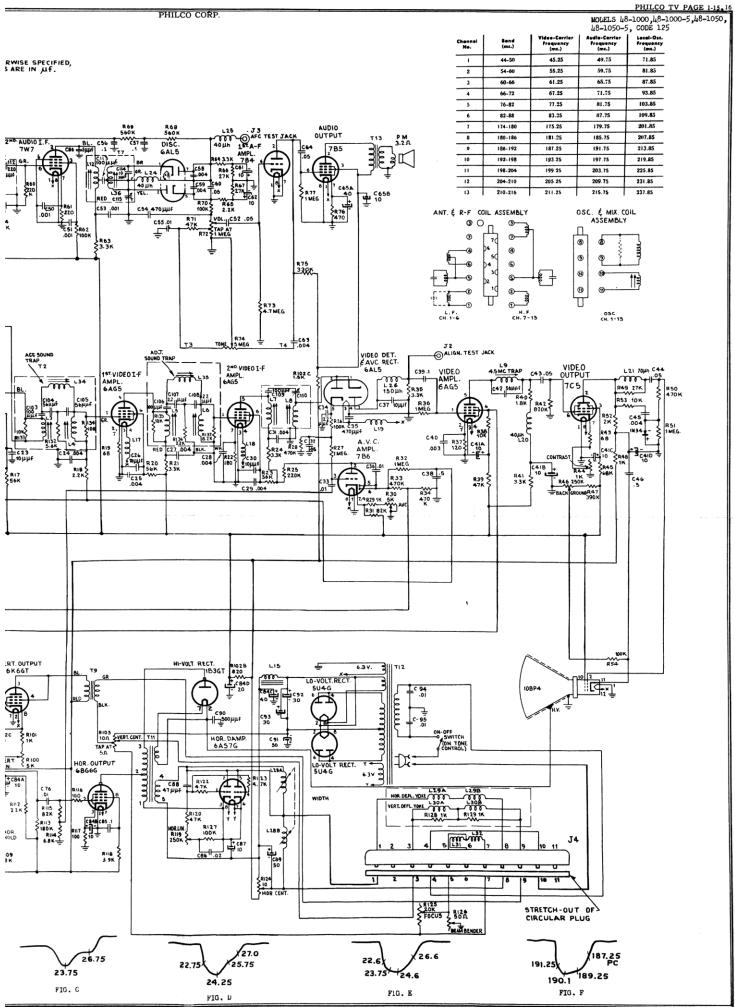
- Set marker generator to sound carrier frequency of channel being aligned and connect to antenna terminals. Connect VTVM to AFC Test Jack (J3). Place a jumper to ground at junction of R68 and C57 to remove AFC from oscillator. Adjust osc. slug for zero indication of VTVM.

 Important: Use least input signal that will give a readable indication on VTVM.
- 2. Set tuning control to channel 9. Connect the sweep generator to antenna terminals and set at 189 mc with a 10 mc sweep. Loosely couple the marker generator to the antenna. Adjust Cl and Cl2 for response shown in Fig. F.

AVC ADJUSTMENT

Set tuning control to channel 9. Set marker generator to 193.25 mc (pix carrier), modulated 30% with 400 cps with 500 uv signal output, and connect to antenna terminals. Connect scope to align test Jack (J2). Adjust R30 for a peak-to-peak signal on scope of 0.6 v.





MODEL 48-1000, CODES 121, 125, PRODUCTION CHANGES

PHILCO CORP.

available because Channel 1 has not been released for commercial broadcasting.

SECTION 4

All Model 48-1000 television receivers are code 121 unless a different code number is stamped next to the model number on the rear of the chassis.

To determine the run number of a set, examine the series of numbers stamped in ink on the rear of the chassis. The last digit of the series gives the run number. For instance, if the number is 1111374, the set is run #4.

CORRECTIONS TO REPLACEMENT PARTS LIST SECTION 2

C211 should be part no. 61-0120*.

SECTION 3

R303 should be part no. 66-3228540*. R304 should be part no. 66-1223340. R307 should be part no. 66-3228540* R308 should be part no. 66-5103340*. R309 should be part no. 66-4108540*. R310 should be part no. 66-063340. R311 should be part no. 66-1103340. R313 should be part no. 66-4108540*.

Channel 1 osc. turret coil, part no. 32-4128-1, and antenna turret coil, part no. 32-4115-1, are not yet

C414 should be part no. 61-0120*. C416 should be part no. 61-0120*.
R405 should be part no. 66-0683340*. R408 should be part no. 66-0683340*. R432 should be part no. 66-0683340*.

SECTION 5

C517 should be part no. 61-0120*. L503 should be part no. 32-4163 (brown dot). 32-4163-1 (black dot), or 32-4163-2 (red dot).

MISCELLANEOUS

CRT socket should be part no. 27-6229.

ADDITIONS TO REPLACEMENT PARTS LIST

SECTION 4

Service Part No. D-c-restorer, crystal, 1N34......54-6001

MISCELLANEOUS

Dust cover, glass, plain (no etching).....54-7340

Production Changes — Code 121

ITEM NO.	DESCRIPTION OF CHANGE	FIGURES OF PR-1103 AFFECTED	CHANGE EFFECTIVE	NEW OR ADDED PART NO.	OLD OR REMOVED PART NO.	REASON
1	R419 removed.	17, 27	Run #2		66-3178540	To allow test-signal input at J401.
2	.004-mf. by-pass condenser (C427) added at B = end of R403.	17, 27	Run #2	61-0179*		To reduce v-i-f oscillation.
3	10-mmf. by-pass condenser (C428) added parallel to C406.	17, 27	Run #2	62-010009001		To reduce v-i-f oscillation.
1	R523 removed.	19, 27	Run #2		66-2105340	To improve vertical sweep.
5	C510 removed:	19, 27	Run #2		30-2417-6	To improve vertical sweep
6	10-mf, condenser (C320) added at plate end of R305.	15, 27	Run #2	30-2417-6		To prevent motorboating or high channels.
7	470-mmf. condenser (C321) added at pin 4 of r-f amplifier.	15, 27	Run #2	62-147001001		To prevent motorboating or high channels.
8	30-mf. condenser (C106) added parallel to C102.	21, 27	Run #3	30-2568-9		To reduce operating tem- perature of C102,
9	R201 changed to 47,000 ohms.	18, 27	Run #4	66-3473340	66-1228540	To improve a-i-f response.
10	Two 100,000-ohm screen resistors (R222 and R223) added at first and second a-i-f types.	18, 27	Run #4	66-4108540 (cach)		To improve a-i-f response.
11	R202 changed to 150 ohms.	18, 27	Run #4	66-1153340	66-0683350	To improve a-i-f response.
12	R206 changed to 220 ohms.	18, 27	Run #1	66-1228340	66-1158340	To improve a-i-f response.
13	C207 changed to .004 mf.	18, 27	Run #4	61-0179*	62-147001001	To improve a-i-f response.
11	Discriminator filament choke (L205) added at pin 4 of discriminator.	18, 27	Run #6 and #7	32-4112-4		To reduce harmonic beat.
15	Z401 changed.	17, 27	Run #6 and #7	32-1213	32-4094	Slug tuning to aid in alignment.
16	Z402 changed.	17, 27	Run #6 and #7	32-4213-1	32-4094-1	Slug tuning to aid in alignment.
17	L503 changed.	19, 27	Run #6 and #7	32-4163-2	32-4163-1	To improve width adjust- ment.

Production Changes—Code 121

ITEM NO.	DESCRIPTION OF CHANGE	FIGURES OF PR-1103 AFFECTED	CHANGE EFFECTIVE	NEW OR ADDED PART NO.	OLD OR REMOVED PART NO.	REASON
18	Z202 changed.	18, 27	Run #6 and #7	32-4214	32-4101-1	To improve a-i-f stability.
19	5-mmf. condenser (C223) added at pin 2 of 2nd a-i-f tube.	18, 27	Run #6 and #7	32-1224-5		To improve a-i-f stability.
20	T503 changed.	19, 27	Run #6 and #7	32-8331	32-8305	To reduce high-voltage breakdown.
21	R528 rewired as in figure 2.	19, 26, 27	Run #6 and #7	No change		To improve horizontal-sync stability.
22	R529 changed to 330,000 ohms.	19, 26, 27	Run #6 and #7	66-4333340*	66-4103340*	To improve horizontal-syne stability.
23	R530 changed to 220 ohms.	19, 26, 27	Run #6 and #7	66-1223340*	66-2223340*	To improve horizontal-sync stability.
24	R531 changed to 33,000 ohms and rewired as in figure 2.	19, 26, 27	Run #6 and #7	66-3333340*	66-4563340*	To improve horizontal-syne stability.
25	R532 changed to 25,000 pot. and rewired as in figure 2.	19, 26, 27	Run #6 and #7	33-5539-28	33-5539-13	To improve horizontal-sync stability.
26	R533 changed to 100,000 ohms and rewired as in figure 2.	19, 26, 27	Run #6 and #7	66-4103340*	66-4393340*	To improve horizontal-syne stability.
27	R549 changed to 1800 ohms.	19, 26, 27	Run #6 and #7	66-2183340*	66-2223340*	To improve horizontal-sync stability.
28	R550, 560.000 ohms, added as in figure 2.	19, 26, 27	Run #6 and #7	66-4563340*		To improve horizontal-sync stability.
29	R551, 1000 ohms, added as in figure 2.	19, 26, 27	Run #6 and #7	66-2103340*		To improve horizontal-sync stability.
30	R552, 2200 ohms, added as in figure 2.	19, 26, 27	Run #6 and #7	66-2223340*		To improve horizontal-sync stability.
31	C514A rewired as in figure 2.	19, 26, 27	Run #6 and #7	No change		To improve horizontal-syne stability.
32	C515 changed to .1 mf. and rewired as in figure 2.	19, 26, 27	Run #6 and #7	61-0113*	60-10825401*	To improve horizontal-sync stability.
33	C516 changed to 680 mmf. and rewired as in figure 2.	19, 26, 27	Run #6 and #7	60-10685401*	60-10825401*	To improve horizontal-sync stability.
34	C517 rewired as in figure 2.	19, 26, 27	Run #6 and #7	No change		To improve horizontal-sync stability.
35	C523, 2000 mmf., added as in figure 2.	19, 26, 27	Run #6 and #7	60-20205304*		To improve horizontal-sync stability.
36	C524, 560 mmf., added as in figure 2.	19, 26, 27	Run #6 and #7	60-10565314*		To improve horizontal-sync stability.
37	L504, 60 mh., added as in figure 2.	19, 26, 27	Run #6 and #7	32-4256		To improve horizontal-sync stability.
38	Wiring panel, four-point, added on bottom of chassis, parallel to sides of chassis, between vertical output (6K6GT) sock- et and C506.	19, 26, 27	Run #6 and #7	12W45661		To improve horizontal-sync stability.
39	R505 changed to 47,000 ohms.	19, 26, 27	Run #6 and #7	66-3473340*	66-4473340*	To improve horizontal-sync stability.

MODEL 48-1000, CODES 121, 125, PRODUCTION CHANGES

Changes in Production from Run #4 of Code 121 to Run #1 of Code 125

ITEM NO.	DESCRIPTION OF CHANGE	FIGURES OF PR-1103 AFFECTED	CHANGE EFFECTIVE	NEW OR ADDED PART NO.	OLD OR REMOVED PART NO.	REASON
1	R443 changed to 100,000 ohms.	17, 27	Run #1	66-4108540	66-5103340	To increase a-v-c stability.
2	R415 changed to 470,000 ohms.	17, 27	Run #1	66-4473340	66-5473340	To increase a-v-c stability.
3	R203 changed to 100,000 ohms.	18, 27	Run #1	66-4108540	66-3473340	To improve a-i-f performance.
4	R207 changed to 100,000 ohms.	18, 27	Run #1	66-4108540	66-3273340	To improve a-i-f performance.
5 -	L502 changed.	19, 27	Run #1	76-2622-2	76-2622	To improve focus. See figure 1.
6	R546 changed.	19, 27	Run #1	33-5547-2	33-5546-5	To improve focus. See figure 1.
7	L502 changed.	19, 27	Run #1	76-2622-1	76-2622	To improve focus. See figure 1.
8	R525 changed.	19, 27	Run #1	33-5546-4	33-5546-2	To improve focus. See figure 1.
9	R545 removed.	19, 27	Run #1	,	66-3105340	To improve focus. See figure 1.

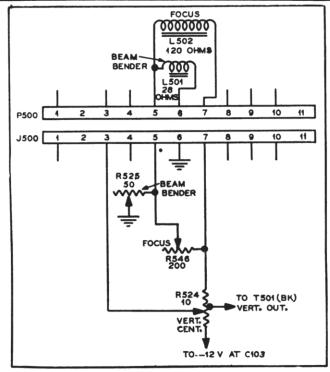


Figure 1. Focus and Beam-Bender Changes

MODEL 48-1000, CODES 121, 125, PRODUCTION CHANGES

Production Changes—Code 125

ITEM NO.	DESCRIPTION OF CHANGE	FIGURES OF PR-1103 AFFECTED	CHANGE EFFECTIVE	NEW OR ADDED PART NO.	OLD OR REMOVED PART NO.	REASON
1	Discriminator filament choke (L205) added at pin 4 of discriminator.	18, 27	Run #2	32-4112-4*		To reduce harmonic beat.
2	Z401 changed.	17, 27	Run #2	32-4213	32-4094	Slug tuning to aid in alignment.
3	Z402 changed.	17, 27	Run #2	32-4213-1	32-4094-1	Slug tuning to aid in alignment.
4	L503 changed.	19, 27	Run #3	32-4163-2	32-4163-1	To improve width adjust ment.
5	Z202 changed.	18, 27	Run #4	32-4214	32-4101-1	To improve a-i-f stability.
6	5-mmf. condenser (C223) added at pin 2 of 2nd a-i-f tube.	18, 27	Run #4	32-1224-5		To improve a-i-f stability.
7	L503 changed.	19, 27	Run #5	32-4163	32-4163-2	To improve width adjustment.
8	T503 changed.	19, 27	Run #5	32-8331	32-8305	To reduce high-voltage breakdown.
9	L503 changed.	19, 27	Run #6	32-4163-2	32-4163	
10	R528 rewired as in figure 2.	19, 26, 27	Run #7	No change		To improve horizontal-syn stability.
11	R529 changed to 330,000 ohms.	19, 26, 27	Run #7	66-4333340*	66-4103340*	To improve horizontal-synstability.
12	R530 changed to 220 ohms.	19, 26, 27	Run #7	66-1223340*	66-2223340*	To improve horizontal-synstability.
13	R531 changed to 33000 ohms and rewired as in figure 2.	19, 26, 27	Run #7	66-3333340*	66-4563340*	To improve horizontal-synstability.
14	R532 changed to 25,000 pot. and rewired as in figure 2.	19, 26, 27	Run #7	33-5539-28	33-5539-13	To improve horizontal-syr stability.
15	R533 changed to 100,000 ohms and rewired as in figure 2.	19, 26, 27	Run #7	66-4103340*	66-4393340*	To improve horizontal-systability.
16	R549 changed to 1800 ohms.	19, 26, 27	Run #7	66-2183340*	66-2223340*	To improve horizontal-synstability.
17	R550, 560,000 ohms, added as in figure 2.	19, 26, 27	Run #7	66-4563340*		To improve horizontal-systability.
18	R551, 1000 ohms, added as in figure 2.	19, 26, 27	Run #7	66-2103340*		To improve horizontal-synstability.
19	R552, 2200 ohms, added as in figure 2.	19, 26, 27	Run #7	66-2223340*		To improve horizontal-systability.
20	C514A rewired as in figure 2.	19, 26, 27	Run #7	No change		To improve horizontal-systability.
21	€515 changed to .1 mf. and rewired as in figure 2.	19, 26, 27	Run #7	61-0113*	60-10825401*	To improve horizontal-systability.
22	C516 changed to 680 mmf. and rewired as in figure 2.	19, 26, 27	Run #7	60-10685401*	60-10825401*	To improve horizontal-systability.
23	C517 rewired as in figure 2.	19, 26, 27	Run #7	No change		To improve horizontal-systability.
24	C523, 2000 mmf., added as in figure 2.	19, 26, 27	Run #7	60-20205304*		To improve horizontal-systability.
25	C524, 560 mmf., added as in figure 2.	19, 26, 27	Run #7	60-10565314*		To improve horizontal-systability.
26	L504, 60 mh., added as in figure 2.	19, 26, 27	Run #7	32-4256		To improve horizontal-sy stability.
27	Wiring panel, four-point, added on bottom of chassis parallel to sides of chassis, be- tween vertical-output (6K6GT) socket and C506.		Run #7	12W45661		To improve horizontal-systability.

Production Changes—Code 125

ITEM NO.	DESCRIPTION OF CHANGE	FIGURES OF PR-1 1 0 3 AFFECTED	CHANGE EFFECTIVE	NEW OR ADDED PART NO.	OLD OR REMOVED PART NO.	REASON			
28	R505 changed to 47,000 ohms.	19, 26, 27	Run #7	66-3473340*	66-4473340*	To improve horizontal-sync stability.			
29	R529 changed to 150,000 ohms.	19, 26, 27	Run #8	66-4154340	66-4333340	To remove vertical blackline.			
30	R550 removed. See Note.	19, 26, 27	Run #8		66-4563340	Toremovevertical black line.			
31	R535 changed to 180,000 ohms.	19, 26, 27	Run #8	66-4183340	66-2683340	Toremovevertical black line.			
32	R435 changed to 18,000 ohms.	19, 26, 27	Run #8	66-3183340	66-3823340	Toremovevertical black line.			
33	R549 changed to 1,000 ohms.	19, 26, 27	Run #8	66-2103340	66-2183340	Toremovevertical black line.			
34	R533 changed to 22,000 ohms.	19, 26, 27	Run #8	66-3223340	66-4103340	To improve horizontal-sync stability.			
35	R530 changed to 330 ohms.	19, 26, 27	Run #8	66-1333340	66-1223340	To improve horizontal-sync stability.			
36	C525, 560 mmf., added from pin #3 of 6BG6G to ground.	19, 26, 27	Run #8	60-10565414		Toremovevertical black line.			

NOTE: In some sets there may be only a 330,000-ohm resistor; later, this resistor was shunted by a 560,000-ohm resistor (R550 above) to bring the resistance down to 270,000 ohms. When available, the 270,000-ohm resistor (Part No. 66-4273340) was used.

Production Changes—Code 125

Run #9 is the same as run #8 except as follows: R529 in run #8 was a 150,000-ohm resistor, Part No. 66-4154340. In run #9 it was changed to a 100,000-ohm resistor, Part No. 66-4104340.

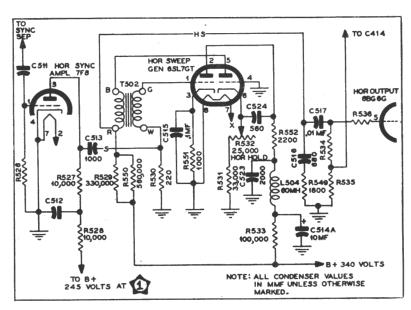


Figure 2. Horizontal-Sweep Changes