PHILCO PHILCO SERVICE SERVICE

TELEVISION

SERVICE BULLETIN 50T3

SERVICING PHILCO TELEVISION RECEIVERS

Subjects Covered

PREPRODUCTION AND PRODUCTION CHANGES IN MODELS 50-T1403, 50-T1404, AND 50-T1406, ALL CODE 125

Corrections to Service Manual (PR-1846) Preproduction Changes Production Changes

REPLACEMENT PARTS LIST AND SCHEMATIC FOR MODELS 50-T1403, 50-T1404, AND 50-T1406, ALL CODE 125, RUN 7

PRODUCTION CHANGES IN MODELS 50-T1404, CODE 123, AND 50-T1406, CODE 123; 50-T1404, 50-T1406, AND 50-T1432, ALL CODE 124

Corrections to Service Manual (PR-1844) Production Changes

PRODUCTION CHANGES IN MODELS 50-T1600, 50-T1632, AND 50-T1633

Corrections to Service Manual (PR-1835)
Production Changes
TB-2 Booster Connections
Change in Control-Door Hinge for Model 50-T1600



MODEL 50-T1633

PREPRODUCTION CHANGES IN MODELS 50-T1600, 50-T1632, AND 50-T1633, ALL CODE 122

Corrections to Service Manual (PR-1854) Preproduction Changes

SERVICE HINTS

Models 50-T1104, Code 122, and 50-T1105, Code 122—Built-in Aerial Lead Dress

All Models—Built-in Aerial Performance on Channel 6
All 10", 12", and 16" Models—CRT and Deflection-Yoke Extension Cables
Model 50-T1400 Series, Runs I and 2—Reduction of Vertical Jitter
Model 50-T1400 Series—Preventing Horizontal-Sync Tear at Minimum Contrast-Control Setting

Subjects Covered — Continued

All Models-Alignment Practices

All Models-Intermittent Picture Tubes

All Models—Barkhausen Oscillations (Vertical Black Line)

Model 48-2500—Grounding Keystoning Magnets

CORRECTIONS AND ADDITIONS TO SERVICE MANUALS AND BULLETINS

Models 50-T1400 Series, 50-T1404, and 50-T1105 (PR-1793, PR-1822)—Correction of Part Number

Model 7050 Tube Tester—Correction to 6W4GT Setting

Model 50-T1403 (PR-1829)—Additional Replacement Part

Model 50-T1481 (PR-1787)—New Part

Part No. 76-5433 Series Tuner—Additional Replacement Part

GENERAL

Substituting Part No. 76-5433-1 Tuners for Part No. 76-4402-6 and Part No. 76-5433 Tuners

Model 7050 Tube Tester—Revised IB3GT Setting

Model 7050 Tube Tester—Revised 6AG5 Setting

Television Service Publications

PREPRODUCTION AND PRODUCTION CHANGES IN MODELS 50-T1403, 50-T1404, AND 50-T1406, ALL CODE 125

Corrections to Service Manual (PR-1846)

- 1. Delete step 5 of Horizontal-Sweep Adjustment.
- 2. The correct part number of the horizontal-blocking-oscillator transformer, T7, is 32-4470-3.
- 3. For corrections to Tuner Alignment Procedure, see Corrections to Service Manual (PR-1844).

PREPRODUCTION CHANGES

The following changes were made between the printing of PR-1846 and first production.

- Resistor R118 was changed to 390,000 ohms, Part No. 66-4394240*.
- Condenser C83 was changed to .001 μf., Part No. 45-3505-52.
- The blocking condenser (C71) in the horizontaloutput circuit was rewired as shown in figure 1.

PRODUCTION CHANGES

RUN NO.	DESCRIPTION OF CHANGE	REMOVED PART NO.	NEW OR ADDED PART NO.	REASON FOR CHANGE
2	R108 changed to 56,000 ohms. C73 changed to 390 μμf.	66-3824240 60-10685401	66-3564240 30-1220-35	To increase width and reduce interaction between width and linearity controls.
3	C67 increased in voltage rating.	60-00105407	30-1224	To reduce possibility of breakdown.
4	Video amplifier, sync take-off point, and sync separator changed as shown in figure 2.	Refer to following Parts List.	Refer to fol- lowing Parts List.	To improve sync per- formance, and to im- prove picture quality with weak signal input.
4Z	A 33-μμf. condenser was added, across R32, and L19 was shorted out.		62-033009001	An inductive resistor was used for R32 (see note below.)
5 and 4X	R32 changed to 2000 ohms, non-inductive. The 33-µµf condenser and the short across L19 were removed.	62-03330001		Circuit changed to use non-inductive resistor.
6	C74 changed to .0047 μf.	60-01825401	45-3505-90	To reduce parasitic oscillations in the 6BG6G.
7	A 680,000-ohm resistor was added, in series with R113.		66-4684340*	To increase width, and reduce squeeze on right side.

NOTE: When Part No. 33-1335-94 (220 ohms, non-inductive) is used as a replacement, the circuit should be wired as shown in figure 2.

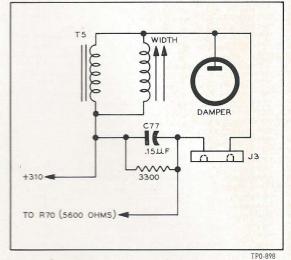


Figure 1. Change in Horizontal-Output Circuit, Models 50-T1403, 50-T1404, and 50-T1406, All Code 125

REPLACEMENT PARTS LIST

MODELS 50-T1403, 50-T1404, AND 50-T1406, ALL CODE 125, RUN 7

(Replacement parts for the tapered line tuner are grouped separately at the end of this list.)

NOTE: Part numbers identified by an asterisk (*) indicate general replacement items. These numbers may not be identical with those on factory assemblies; also, the electrical values of some replacement items may differ from the values indicated in the schematic diagram and replacement parts list. The values substituted in any case are so chosen that the operation of the receiver will be either unchanged or improved. When ordering replacements, use only the "Service Part No."

Reference Symbol	Description	Service Part No.
AD1	Built-in dipole (2 used)	56-7635
BB1	Beam bender, p.m.	76-3913-2
Cl	Condenser, r-f by-pass, 2.2 µµf.	30-1221-4
C2	Condenser, fixed trimmer, 51 $\mu\mu f$	30-1224-62

Deference		Service	Reference		Service
Reference Symbol	Description	Part No.	Symbol	Description	Part No.
C3	Condenser, fixed trimmer, 51 $\mu\mu f$	-1224-62	C65B	Not used	Dont of C65
C4	Condenser, a-a-c by-pass, 1500 µµJ62-21	2001001	C65C	Condenser, d-c blocking, .0022 μf .	45-3505-54*
C5	Condenser, a-a-c by-pass, 1500 µµ]62-21	2001001	C66	Condenser, weep feedback, $10 \mu \mu f$	30-1224
C6	Condenser, screen by-pass, 1500 µµ/02-21	2001001	C67	Condenser, cathode by-pass, .022 μf	45-3505-43*
C7	Condenser, B+ by-pass, 1500 uuf 62-21	2001001	C68	Condenser, cathode filter, .22 μf .	45-3505-49*
C8	Condenser dec blocking, 470 uut62-14	7001001	C69 C70	Condenser, plate by-pass, .047 \(\mu f\)	45-3505-62
C9	Condenser, a-g-c by-pass, 1500 µµf62-21	5001001	C71	Condenser, d-c blocking, 150 uut.	30-1220-1
C10	Condenser, screen by-pass, 1500 $\mu\mu f$	7001001	C72	Condenser, sweep charging, 1200 µµJ	.60-20125404
C11	Condenser, a-g-c by-pass, 1500 $\mu\mu f$ 62-21	5001001	C73	Condenser, d-c blocking, 390 µµ1.	.60-10395417
C12	Condenser screen by-pass, 1500 µµ102-21	2001001	C74	Condenser, screen by-pass, .0047 µf	45 2505 62*
C13 C14	Condenser, d-c blocking, 470 µµtb2-14	1001001	C75	Condenser, sweep shaping, .047 µf	45-3505-02
C15	Condenser fixed trimmer, 51 µµ/	-1224-02	C76	Condenser, sweep shaping, .22 \(\mu f\) Condenser, d-c blocking, .15 \(\mu f\).	45-3505-31*
C16	Condenser fixed trimmer, 51 uut.	-1224-02	C77	Condenser, high-voltage filter, 500 $\mu\mu f$.	30-1229-2
C17	Condenser cathode by-pass, 1500 uul. 62-21	2001001	C78 C79	Condenser filament by-pass.	
C18	Condenser, screen by pass, 1500 $\mu\mu f$	7001001	0/3	1500 44 f	32-215001001
C19	Condenser, d-c blocking, 470 $\mu\mu f$	5001001	C80A	Condenser trimmer	Part of Al
C20	Condenser, video by-pass, .047 μf .	-3505-62*	C80B	Condenser trimmer	Part of 41
C21	Condenser ref by-noss 4/ UUT.	1009001	C81	Condenser AFRIAL TUNING	31-0313
C22	Condenser a-a-c tilter 4/ III.	7-0-00-0-2	C82	Condenser, feedback delay, 150 µµf	bu-10133407
C23 C24	Condensor r-t hy-ness. III IIII	10409001	C83	Condenser, d-c blocking, .001 μf	45.3505-58*
C25	Condenser dec blocking, U4/ W/	3-3303-04	C84	Condenser, fixed trimmer, .01 μf	62-147001001
C26	Condenser d-c blocking, 22 #1.	3-0000-40	C85	Fuse, B+ protective, ½ ampere,	02 11,00100-
C27	Condenser cathode by-pass, 4/ 4/4	2-0000-04	F1	delayed action	45-2656-17
C28	Condenser d-c blocking, .U4/ #14	3-3303-04	F2	Fuse filament protectiveLength of	No. Ze wire
C29	Condenser, d-c blocking, .01 μf	56409001	J1	Socket FM TEST	
C30	Condenser, fixed trimmer, so $\mu\mu f$	47001001	J2	Socket ALIGN TEST	27-6126
C31	Condenser, screen by-pass, 1500 µµf32-2.	15001001	13	Castrot deflection	27-6174-4
C32	Condenser R+ by-pass, 1500 uul02-2	19001001	J4	Socket, deflection	27 6240
C33 C34	Condenser dec blocking, 56 uut	20403001	J5	Socket, HORIZ. TEST	27-6126
C35	Condonser screen by-pass, 1500 uul04-4	19001001	16	Coil, 28.1-mc. trap	32-4234-8
C36	Condenser fixed trimmer, 18 uul	10000001	Ll	Coil let wif grid tank	32-4233-4
C37	Condenser balancing 2.2 HHT.	30-1771-4	L2	Coil let wif plate tank	32-4359
C38	Condenser, r-f by-pass, 150 $\mu\mu f$. 60-	10155407	L3 L4	Coil 2nd v-i-f plate tank	32-4333
C39	Condenser, r-f by-pass, 150 $\mu\mu f$. 60- Condenser, FM detector filter, 2 μf . 50v	30-2417-7	1.5	Coil 3rd wif plate tank	32-4234-1
C40	Condenser, riff detector lifter, $2 \mu f$. Gov. Condenser, r-f by-pass, 1500 $\mu \mu f$ 62-2	15001001	L6	Coil 22 Lang tran	32-4234-/
C41	Condenser dec blocking, 01 #1.	5-3505-50	L7	C-: 1 Ath - if and tank	
C42	Condenser d-c blocking, .0047 #1.	2-2202-20	I.8	Coil, 4th v-i-f tank	22 4112-15
C43 C44	Condensor higs tilter U47 UT.	3-0000-04	L9	Coil, r-f choke, B+ decoupling	32-4112-15
C45	Condenser, d-c blocking, .01 µJ.	5-3505-58*	L10	Coil, r-f choke, filament decoupling	32-4112-15
C46	Condensor tone compensating, Jubb #1.		L11	Coil rf choke B+ decoupling	32-4112-13
	1000v	0.2568-23	L12 L13	Coil rf choke filament decoupling	32-4112-13
C47	Condenser, filter, 30 μf ., 250v	0-2568-40	L14	Coil ref choke filament decoupling	34-4114-13
C48	Condenser, input filter, 30 μf ., 475v	rt of C48	L15	Coil series negling, 40 uh.	32-4143-10
C48A	Condenser, filter, 40 μf ., 475v	rt of C48	L16	Coil shunt peaking, 250 µh	32-4143-14
C48B	Condensor Asection tilter	0-2010-41	L17	Not used	
C49 C49A	Condonser filter 40 ut., 4/5vPd	ri oi C43	L18	Coil series peaking, 180 μ h.	32-4143-13
C49B	Condenser filter 20 u.t., 4/5VPd	11 01 043	1.19	Coil, shunt peaking, 180 μ h.	32-4143-13
C49C	Condenser filter, 10 ut., 4/5vPo	rt of C49	L20	Coil let e if cutotransformer	32-4303-2
C49D	Candongor low-frequency compensation,		L21 L22	Coil 2nd s-i-f primary	Pari of Zi
	10 "f 475V	15-3505-62*	L23	Coil 2nd slif secondary	Puit Of Zi
C50	Condenser, d-c blocking, .047 μf .	30-1224-20*	L24	Coil rf choke filament decoupling	32-4112-13
C51	Candonger de blocking III Juli	10-0000-24	L25	Cail EM detector primary	Pari of ZZ
C52	Condenser integrating, 0022 #1.	10-0000-04	L26	Cail EM detector secondary	Pari of ZZ
C54 C55	Condenser integrating, UU4/ 4/1.	10-0000-00	L27	Coil, FM-detector secondary Coil, FM-detector tertiary Coil, filter choke	32-8438
C56	Condenses integrating 0047 ut.	45-3303-30	L28	Coil, focus	Part of Z3
C57	Condenser dec blocking, 01 41.	45-3505-50	L29	Coil horizontal-blocking-oscillator	
C58	Condenser vertical shaping, .1 4/	40-0000-47	L30	transformer	Part of T4
C59	Condenser, d-c blocking, .1 µf.	30-2570-55	L31	Coil WIDTH	32-4413-3
C60	Condenser, 4-section filter	00-2070-00	L32	Coil HORIZ LIN	32-4211-1
C60A	Condenser, cathode by-pass, 40 μf .,	art of C60	L33	Coil wortical deflection	Part of Z4
COOR	Condensor decoupling, 5 ut., 4/5v	art of Con	T.34	Coil horizontal deflection	Part of 24
C60B C60C	Condenser, decoupling, 10 \(\mu f.\), 475v \(\text{Pc}\)	art of C60	L35	Coil, stabilizing	Part of 17
C60D	Condensor cathode by-pass, 80 ut.		LS1	Speaker, p.m., 4" x 6"	41,3860.6
COOD	475-r	art of C60	PL1	Plug-and-cable assembly, deflection Plug, a-c interlock	Part of W1
C61	Condenser dec blocking, .047 ut.	45-3505-62	PL2	Desister isolating 470 ohms	66-14/8340
C63	Condenser de blocking, 100 uut.	J-1010540/	R1 R2	Resistor, terminating, 5600 ohms, ±5	/o66-256824U
C65	Condenser, 3-section trimmer Condenser, HORIZ. LOCK-IN	art of C65	R3	Resistor, loading, 10,000 ohms	66-3108340*
C65A	Condensel, fichile, Lock-iii				

MARKET STATES

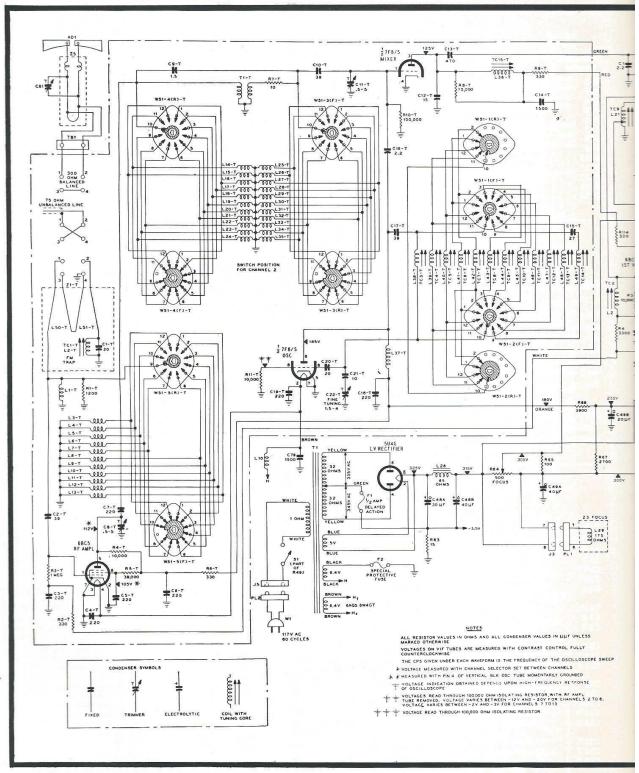
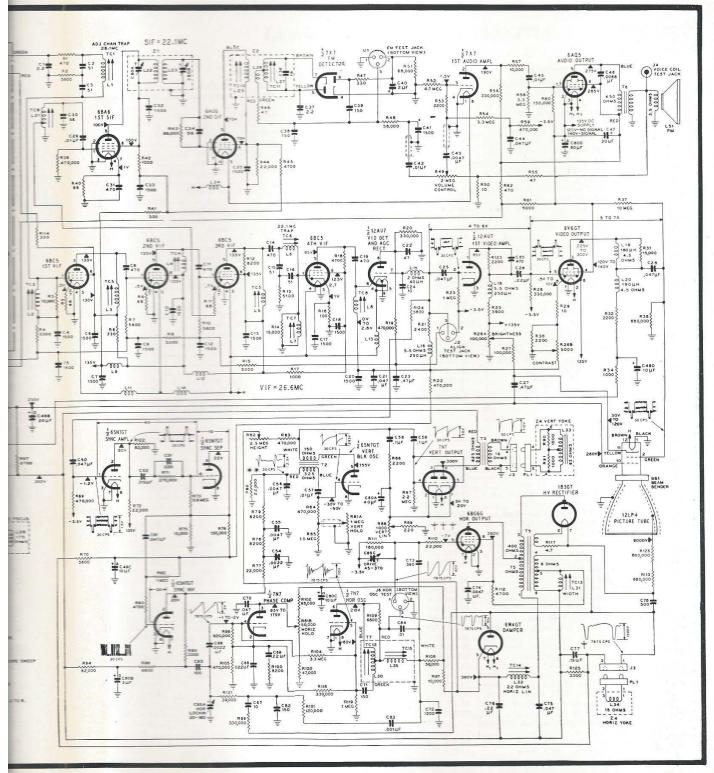


Figure 2. Schematic Diagram, Models 50-7140



50-T1403, 50-T1404, and 50-T1406, All Code 125 Run 7

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Reference Symbol	Description	Service Part No.	Reference Symbol	Description	Service Part No.
R4 R5	Resistor, a-g-c decoupling, 3300 ohms		R72	Resistor, plate load, 22,000 ohms	
R6	Resistor, cathode bias, 68 ohms		R73 R74	Resistor, grid return, 6.8 megohms	
R7	Resistor, B+ decoupling, 330 ohms Resistor, grid return, 5600 ohms		R75	Not used	
R8			R76	Resistor, voltage divider, 15,000 ohms	
R9	Resistor, a-g-c decoupling, 3300 ohms Resistor, cathode bias, 68 ohms		R77	Resistor, plate load, 150,000 ohms	
R10	Resistor, grid return, 5600 ohms	DD-UD8834U	R78	Resistor, integrating, 22,000 ohms	
R11			R79	Resistor, integrating, 8200 ohms	
R12	Resistor, cathode bias, 68 ohms Resistor, loading, 8200 ohms		R80	Resistor, integrating, 8200 ohms	
R13	Resistor, terminating, 5100 ohms, ±5%		R81	Resistor, terminating, 22,000 ohms	
R14	Resistor, loading, 15,000 ohms		1101	Potentiometer assembly, dual, 1 megoh and 50,000 ohms	
R15	Resistor, a-g-c decoupling, 3300 ohms		R81A		33-3303-23
R16			noin	Potentiometer, VERT, HOLD control,	D PO1
R17	Resistor, cathode bias, 100 ohms		DOID	1 megohm	Part of R81
R18	Resistor, B+ decoupling, 1000 ohms		R81B	Potentiometer, HORIZ. HOLD control,	D / DO1
	Resistor, loading, 4700 ohms		Doo	50,000 ohms	Part of R81
R19	Resistor, a-g-c filter, 470,000 ohms		R82	Potentiometer, HEIGHT control,	
R20	Resistor, a-g-c diode load, 330,000 ohms.		Doo	2.5 megohms	
R21	Resistor, diode load, 2400 ohms, ±5%		R83	Resistor, limiting, 470,000 ohms	
R22	Resistor, voltage divider, 470,000 ohms .		R84	Resistor, limiting, 470,000 ohms	
R23	Resistor, grid return, 1 megohm		R85	Resistor, shunt, 1.5 megohms	
R24	Resistor, loading, 2200 ohms		R86	Resistor, shaping, 2200 ohms	66-2228340*
R25	Resistor, plate load, 3900 ohms	66-2394340*	R87	Resistor, grid return, 2.2 megohms	66-5228340*
R26	Potentiometer assembly, dual, 100,000		R88	Potentiometer, VERT. LIN. control,	
	ohms and 5000 ohms	33-5563-22		1000 ohms	33-5546-31
R26A	Potentiometer, BRIGHTNESS control,		R89	Resistor, limiting, 220 ohms	66-1228340*
	100,000 ohms	Part of R26	R90	Resistor, damping, 1000 ohms	
R26B	Potentiometer, CONTRAST control,		R91	Resistor, damping, 1000 ohms	66-2108340*
	5000 ohms	Part of R26	R92	Resistor, grid return, 1 megohm	
R27	Resistor, limiting, 100,000 ohms		R93	Resistor, video filter, 4700 ohms	
R28	Resistor, grid return, 330,000 ohms		R94	Resistor, dropping, 82,000 ohms	
R29	Resistor, limiting, 10 ohms		R95	Resistor, plate load, 3300 ohms	
R30	Resistor, shunt, 2200 ohms		R98	Resistor, plate load, 6800 ohms	
R31	Resistor, loading, 15,000 ohms		R97	Resistor, decoupling, 10,000 ohms	
R32	Resistor, plate load, 2200 ohms		R98	Resistor, grid return, 560,000 ohms	
R33	Not used		R99	Resistor, sweep feedback, 330,000 ohms	
R34	Resistor, low-frequency compensating,		1100	±5%	66-4338240*
1101	1000 ohms	66 2100240*	R100	Resistor, cathode filter, 8200 ohms	
R35	Not used		R101	Resistor, sweep feedback, 120,000 ohm	
R36			R102	Resistor, voltage divider, 68,000 ohms,	.500-4120040
R37	Not used		HIUZ	±5%	66 2694240*
R38			R103	Not used	
R39	Resistor, grid return, 680,000 ohms			Resistor, grid return, 3.3 megohms	
R40	Resistor, grid return, 470,000 ohms		R104 R105	Resistor, cathode return, 470,000 ohms	
2000	Resistor, cathode bias, 68 ohms				
R41	Resistor, B+ decoupling, 330 ohms		R106	Not used	
R42	Resistor, dropping, 1000 ohms		R107	Not used FC 000 above	
R43	Resistor, grid return, 68,000 ohms		R108	Resistor, sweep charging, 56,000 ohms,	CC 0504040*
R44	Resistor, voltage divider, 22,000 ohms		7144	±5%	00-3304240
R45	Resistor, voltage divider, 4700 ohms		R109	Resistor, loading, 6800 ohms	
R46	Resistor, decoupling, 47 ohms		R110	Resistor, suppressor, 22,000 ohms	
R47	Resistor, isolating, 330 ohms		RIII	Resistor, grid return, 180,000 ohms	
R48	Resistor, r-f filter, 56,000 ohms	66-3568340*	R112	Resistor, screen dropping, 4700 ohms	
R49	Potentiometer, VOLUME control,	en lastronia	R113	Resistor, limiting, 680,000 ohms	
200	2 megohms		R114	Resistor, B+ decoupling, 330 ohms	
R50	Resistor, voltage divider, 10 ohms		R115	Not used	
R51	Resistor, FM detector, 68,000 ohms		R116	Not used	
R52	Resistor, grid return, 4.7 megohms	66-5478340*	R117	Resistor, filament dropping, 4.7 ohms	66-9478340*
R53	Resistor, isolating, 2200 ohms	66-2228340*	R118	Resistor, coupling, 330,000 ohms, ±5%	66-4334240*
R54	Resistor, voltage divider, 3.3 megohms .		R119	Resistor, grid return, 1 megohm, ±5%	66-5104240*
R55	Resistor, voltage divider, 47 ohms	66-0478340*	R120	Resistor, voltage divider, 47,000 ohms	66-3474340*
R56	Resistor, plate load, 330,000 ohms		R121	Resistor, sweep feedback delay,	
R57	Resistor, isolating, 10,000 ohms			39,000 ohms	66-3398340*
R58	Resistor, grid return, 3.3 megohms		R122	Resistor, voltage divider, 82,000 ohms	66-3828340*
R59	Resistor, bias decoupling, 470,000 ohms		R123	Resistor, compensating, 2200 ohms	
R60	Resistor, voltage divider, 150,000 ohms		R124	Resistor, isolating, 5600 ohms	
RS1	Resistor, bleeder, 5000 ohms, 8 watts		R125	Resistor, shunting, 3300 ohms	
R62	Resistor, decoupling, 470 ohms		R126	Resistor, limiting, 680,000 ohms	
R63	Resistor, bias, 15 ohms		S1	Switch, OFF-ON	
R64	Potentiometer, FOCUS control, 500 ohms		T1	Transformer, power	
R65			T2	Transformer, vertical blocking osc	
RAG	Resistor, limiting, 100 ohms		T3	Transformer, vertical output	
				Transformer, horizontal blocking osc,	
R67	Resistor, dropping, 2700 ohms		T4		
R68		CC 4470040*	T5	Transformer, horizontal output Transformer, audio output	
R69	Resistor, arid return, 470,000 ohms		T6	Terminal board, aerial	
R70	Resistor, decoupling, 5600 ohms		TB1	Tuning core	
R71	Resistor, compensating, 270,000 ohms		TC1		

Reference Symbol		Description	Service Part No.	Reference Symbol	Description	Service Part No.
TC2	Tuning core		Part of L2	TC15	Tuning core	Part of T7
TC3				WI	Line cord	41-3865
TC4				Z1	Transformer, 2nd s-i-f	32-4236
TC5				Z2	Transformer, FM detector	32-4317-2
TC6			120 (1302)	Z3	Focus-coil assembly	76-2622-3
TC7				Z4	Deflection-coil assembly	32-9622
TC8				Z5	Loop assembly, aerial tuning	76-5413-2
TC9						
TC10	Tuning core		Part of L25		MISCELLANEOUS	
TC11				Description	14110022271112000	Service Part No.
TC12	Tuning core		Part of T7	5.0		
TC13		WIDTH		Grommet, 7	N7 shock mtg.	27-4099-3
TC14		HORIZ, LIN,		Socket, 7N7	shock mtg.	27-6207

TAPERED LINE TUNER PART NO. 76-5433-1

IMPORTANT -

For most of the common troubles, the above tuners may be repaired in the field. Tuners of this type, under warranty, may be returned for repair through Philco distributors at no cost except for missing parts and out-of-warranty tubes. Damaged or mutilated tuners are considered out-of-warranty. A small handling charge will be made for tuners returned under warranty, but found to be operating normally.

If it is not desired to repair out-of-warranty tuners, they may be returned for repair through your Philco distributor, at a reasonable cost. There will be an extra charge for missing parts or damaged tuners. For detailed service information, refer to PR-1858, Service Manual for Philco 12-Channel Turret Tuner and 12-Channel Wafer-Switch Tuners, Part Nos. 76-5411-Series, 76-4402- Series, and 76-5433- Series.

Parts identified by † in the following list may be replaced in the field without disturbing the tuned circuits.

CAUTION: The lead dress and lead lengths of some of these components are critical. When replacing components, duplicate the original wiring as closely as possible.

REPLACEMENT PARTS LIST

Reference Symbol	Ser Description Part	vice Reference No. Symbol	Description Part 1
C1-T†	Condenser, fixed trimmer, 20 µµf62-020309	011 C22-T**	Condenser, FINE TUNING, 1.5-4 μμf31-6517
C2-T	Condenser, d-c blocking, 39 µµfNot replaced		Coil, r-f grid tank
C3-T†	Condenser, a-g-c by-pass, 220 µµf30-122		Coil, FM trap32-4438
C4-T†	Condenser, filament by-pass, 220 $\mu\mu f$ 30-122		5.394 N 184
C5-T	Condenser, screen by-pass,	L13-T	Coils, r-f tank
	220 µµfNot replaced	ble L14-T thru	
C6-T†	Condenser, B+ by-pαss, 220 μμf30-122	5-11 L24-T	Coils, r-f plate tankNot replaceab
C7-T	Condenser, d-c blocking, 220 µµfNot replaced		
C8-T	Condenser, trimmer, r-f plate,	L35-T	Coils, mixer grid tankNot replaceab
00-1	.5-5 µµf. Not replaced	ble L36-T†	Coil, 1st v-i-f tank
C9-T	Condenser, coupling, 1.5 $\mu\mu f$ Not replaced	ble L37-T†	Coil, r-f plate feed32-4112
C10-T	Condenser, d-c blocking, 39 $\mu\mu f$ Not replaced		Coil, oscillator, Channel 232-4357
C11-T	Condenser, trimmer, mixer grid,	L39-T†	Coil, oscillator, Channel 332-4357
011-1	.5-5 μμfNot replaced	ble L40-T†	Coil, oscillator, Channel 432-4357
C12-T†	Condenser, r-f by-pass, 15 \(\mu\mu f\)62-015409	011 L41-T†	Coil, oscillator, Channel 532-4357
C13:T	Condenser, d-c blocking, 470 $\mu\mu f$ Not replaced		Coil, oscillator, Channel 632-4357
C14-T†	Condenser, r-f by-pass, 1500 µµf30-122		Coil, oscillator, Channel 732-4357
C15-T	Condenser, fixed padder, 27 µµfNot replaced	ble L44-T†	Coil, oscillator, Channel 832-4357
C16-T	Condenser, oscillator injection,	L45-T†	Coil, oscillator, Channel 932-4357
010-1	2.2 µµf		Coil, oscillator, Channel 1032-4357-
C17-T	Condenser, fixed padder, 39 µµfNot replaced	ble L47-T†	Coil, oscillator, Channel 1132-4357-
C18-T	Condenser, r-f by-pass, 220 $\mu\mu f$ 30-122		Coil, oscillator, Channel 1232-4357-
C19-T	Condenser, filament by-pass,	L49-T†	Coil, oscillator, Channel 1332-4537-
013-1	220 µµf		Coil, tapered line32-44
C20-T†	Condenser, d-c blocking, 20 $\mu\mu f$ 30-122	1-67 L51-T†	Coil, tapered line32-44
C21-T	Condenser, fixed padder, $10 \mu\mu f$ Not replaced		Resistor, input loading, 1200 ohms

Reference Symbol	Service Description Part No.	Reference Symbol	Description	Service Part No.
R2-T† R3-T†	Resistor, a-g-c decoupling, 330 ohms	C1-T IC2-T thru	Tuning core FM trap	Part of L2-T
R4-T† R5-T† R6-T†	Resistor, plate feed, 10,000 ohms	TC14-T TC15-T WS1-T	Tuning cores, oscillator	Not replaceable
R7-T R8-T†	Resistor, suppressor, 10 ohms	Z1	Tapered line transformer assembly.	
R9-T† R10-T† R11-T† T1-T	Resistor, B+ decoupling, 330 ohms	L39-T (C) pressing	made accessible by first moving L38.5 hannel 3) oscillator coils. This may the coil mounting clips, then carefully the Tuner, out of the way.	be done by com-

PRODUCTION CHANGES IN MODELS 50-T1404, CODE 123, AND 50-T1406, CODE 123; 50-T1404, 50-T1406, AND 50-T1432, ALL CODE 124

Corrections to Service Manual (PR-1844)

- 1. Figure 5, page 6, caption should read, "Top View of Chassis (without Tuner), etc."
- 2. Figure 6, page 7, caption should read, "Top View of Chassis, Showing Locations of Adjustments."
- 3. The Bandpass and R-F Response Adjustment Procedure for Tapered Line Tuner (Code 123), page 12, is superseded by the following procedure (refer to PR-1858 for complete tuner information):
 - 1. Connect the outputs of the AM and FM signal generators through the aerial-matching network (figure 1) to terminals 1 and 2 of Z1-T. Terminals 3 and 4 of Z1-T should be connected together, for a 300-ohm input.
 - 2. Connect a 3300-ohm resistor in series with the 150-volt (red) B+ lead to R9-T. Connect the vertical input of the oscilloscope to the junction of the 3300-ohm resistor and R9-T.
 - 3. Turn the CHANNEL SELECTOR to Channel 10, and remove the 1st v-i-f tube. Connect a 470-ohm resistor from the v-i-f output (green) lead to ground.
 - 4. Set the FM signal generator to 195 mc., with sufficient sweep to give the complete response curve.
 - 5. Set the AM signal generator (unmodulated) to produce marker pips at the video and sound carriers for Channel 10.

- 6. Adjust C8-T and C11-T for maximum symmetrical response within Channel 10. If there is one weak station in the local area, the adjustment of C8-T and C11-T may be made on that channel, to improve its performance, provided that the response on other channels is not sacrificed too much.
- 4. The Bandpass and R-F Response Adjustment Procedure for 12-Position Turret Tuner (Code 124), page 13, step 2, should read, "Short the v-i-f output lead of the tuner to ground through a 470-ohm resistor."
- 5. The connection of C15-T and L17-T, R10-T should be interchanged in figure 13, page 13.
- 6. In figure 14, pages 16 and 17, terminal 4 of the tapered line input terminals should be grounded.
- 7. In figure 14, pages 16 and 17, the connections to pins 1 and 3 of the 6T8 (Code 124) should be reversed.
- 8. In figure 14, pages 16 and 17, the value of R94 should be 82,000 ohms.
- 9. In figure 14, pages 16 and 17, and in the Replacement Parts List, the values of R3-T and R2-T should be interchanged.
- 10. In figure 14, the peak-to-peak voltage on the grid of the 6BG6G tube should be 35v.
 - 11. The correct part number of C24 is 62-01049001.
 - 12. The correct part number of R26 is 33-5563-22.

PRODUCTION CHANGES IN MODELS 50-T1404, CODE 123, AND 50-T1406, CODE 123

RUN NO.	DESCRIPTION OF CHANGE	REMOVED PART NO.	NEW OR ADDED PART NO.	REASON FOR CHANGE
2	R85 changed to 1.5 megohms.	66-5108340	66-5158340	To center range of VERT. HOLD control.
3	R68 removed. Pin 6 of video output tube was connected directly to the 135-volt source.	66-2565340		To simplify wiring.
4	L17 and R24 removed. Plate of 1st video amplifier was connected directly to L18.	32-4143-14 66-3158340		To improve video response.

PRODUCTION CHANGES IN MODELS 50-T1404, 50-T1406, 50-T1432, ALL CODE 124

RUN NO.	DESCRIPTION OF CHANGE	REMOVED PART NO.	NEW OR ADDED PART NO.	REASON FOR CHANGE
2	R85 changed to 1.5 megohms.	66-5108340	66-5158340	To center range of VERT. HOLD control.
3	R68 removed. Pin 6 of video output tube was connected directly to the 135-volt source.	66-2565340		To simplify wiring.
4	L17 and R24 removed. Plate of 1st video amplifier was connected directly to L18.	32-4143-14 66-3158340		To improve video response.
4	A 3.3-μμf. condenser was added, from pin 1 of FM detector, 6T8, to ground.		30-1224-30	To improve FM detector AM rejection.

PRODUCTION CHANGES IN MODELS 50-T1600, 50-T1632, AND 50-T1633

Corrections to Service Manual (PR-1835)

- 1. On page 3, under HORIZONTAL SWEEP AD-JUSTMENTS, step 3 should read, "Connect an oscilloscope to pin 3 of J1, etc." Step 5 should read, "Connect the oscilloscope to pin 1 of J1."
- 2. The Replacement Parts List should be corrected according to the following list.

Reference Symbol	Published Part No.	Corrected Part No.
C1	45-9570	31-6519
C33	62-10009001	62-110009001

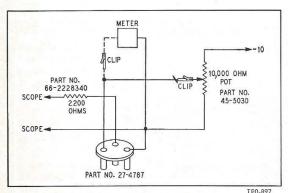


Figure 3. Correct Wiring for ALIGN TEST Jack Adapter, for Models 50-T1600, 50-T1632, and 50-T1633

MISCELLANEOUS

Description	Published Part No.	Corrected Part No.
Knob, FINE TUNING	54-4771	76-5794
Knob, VOLUME	54-5794	76-5795
Screw, picture-tube mtg.	2W5492FA9	1W25492FA9
Cable, chassis connecting (power)	41-3975	41-3975-1
Ring, picture-tube frame assembly	57-7869FA3	56-7869FA3

- 3. The ALIGN TEST jack adapter shown on page 6, figure 5, should be wired as shown in figure 3.
- 4. The FM TEST jack adapter shown on page 6, figure 6, should be wired as shown in figure 4.

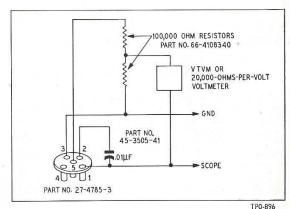


Figure 4. Correct Wiring for FM TEST Jack Adapter, for Models 50-T1600, 50-T1632, and 50-T1633

PRODUCTION CHANGES

The following production changes were made since

the printing of Service Bulletin 50T1 (PR-1853).

The high-voltage supply, the r-f, i-f chassis, and the deflection chassis carry separate run numbers.

RUN NO.	DESCRIPTION OF CHANGE	REMOVED PART NO.	NEW OR ADDED PART NO.	REASON FOR CHANGE
5 (R-f, i-f)	The 100-μμf. condenser from pin 5 of Z3 was replaced by a trimmer (located between the FM-detector transformer, Z7, and the 6AQ5). See ALIGN-MENT NOTE below. 1st s-i-f grid circuit was rewired as in first production.	62-168001001 62-110009001 66-2188340	31-6473-18 trimmer 66-4478340 66-5478340	To improve stability and AM rejection.
5 (Deflection)	C84 changed to silver mica type.	60-10275407	60-10275337	To reduce drift.
6 (Deflection)	C67 increased in ripple-current rating.		30-2568-37*	To reduce heating.
7 (Deflection)	R70 removed. R74 changed to 2700 ohms. R73 changed to 5600 ohms.	66-3228340* 66-2478340* 66-3108340*	66-2278340* 66-2568340*	To simplify wiring.
8 (Deflection)	Fuse holder relocated outside the h-v cage.			To reduce ambient temperature of fuse.
9 (Deflection)	C87 changed to 820 μμf.	60-20125404	60-10825401	To reduce interaction between width and linearity adjustments.
10 (Deflection)	A 250-µf., 50v condenser was added, across focus coil.		30-2417-15	To improve overall focus.
During Run 1 (H-v ass'y.)	Horizontal output transformer changed to 32-8428-1. Wiring of secondary winding changed as shown in figure 5.	32-8428	32-8428-2*	To decrease current in width coil.
(H-v ass'y.)	Physical wiring change.			To simplify wiring.
(H-v ass'y.)	Fuse relocated outside h-v cage.			To reduce ambient temperature of fuse.

NOTE: All Run 1, 2, 3, and 4 chassis that have Run 5 changes incorporated have a "Y" stamped after the run number. In these chassis, the trimmer referred to above is located underneath the chassis, from pin 5 of Z3 to ground.

ALIGNMENT NOTE: When making the alignment, use a station signal, turn the FINE TUNING control clockwise to obtain a slightly smeary picture, and adjust this trimmer for best sound—minimum AM (noise) output.

TB-2 BOOSTER CONNECTIONS

The booster B+ connection is wired to pin 6 of the

audio output tube (6V6GT), and therefore, TB-2 Booster Adapter Cable, Part No. 41-3963, should be used with this series.

CHANGE IN CONTROL DOOR HINGE FOR MODEL 50-T1600

Later production 50-T1600 used a larger hinge, Part No. 56-8442, on the control door. The depth of one leaf of this hinge is approximately ³/₄".

It is recommended that this new hinge be used for all replacements. Due to the larger size, it is necessary to butt this hinge tightly against the ledge. See figure 6.

PREPRODUCTION CHANGES IN MODELS 50-T1600, 50-T1632, AND 50-T1633, ALL CODE 122

Corrections to Service Manual (PR-1854)

1. The Replacement Parts List should be corrected according to the following list.

Reference Symbol	Published Part No.	New or Corrected Part No.
L35	32-4467-3	32-4143-17
Т3	32-4470	32-4470-1
Т5	32-8428	32-8428-2
MISCEL	LANEOUS	
MISCEL Description	Published Part No.	New or Corrected
	Published	New or Corrected Part No.

2. On page 2, Step 11, the Signal-Generator Connection should be, "Connect output of AM generator to pin 3 of J3".

PREPRODUCTION CHANGES

The following changes were made between the printing of PR-1854 and first production:

- Alignment test points G3, G4, and G5 were re-
- 2. C107 was changed to 150 μμf., Part No. 30-1220-1.
- 3. A 15,000-ohm resistor, Part No. 66-3158340, was added, between R129 and the wire from pin 6 of the 12AU7 and R139.
- 4. R131 was replaced by a wire.
- R138 was changed to 180,000 ohms, Part No. 66-4188340.
- 6. R121 was changed to 1,000 ohms, Part No. 66-2108340.
- 7. The positions of L21 and L23 were reversed in the circuit.
- The connections to pins 9 and 4,5 of the 12AU7 video detector and a-g-c rectifier tube were reversed.
- The connections to pin 9 and 4,5 of the 12AU7 1st video amplifier tube were reversed.
- 10. The connections to pins 4 and 5 of the 6T8 FM detector and 1st audio tube were reversed.
- 11. The connections to pins 2 and 7 of the 6V6GT audio-output tube were reversed.
- 12. The filament pins of the 6BF5 tube are 3 and 4, instead of 1 and 4.
- 13. R73 was changed to 5600 ohms, Part No. 66-2568340.

- 14. C87 was changed to 820 μμf., Part No. 60-10825401.
- 15. The width coil was rewired as shown in figure 5.

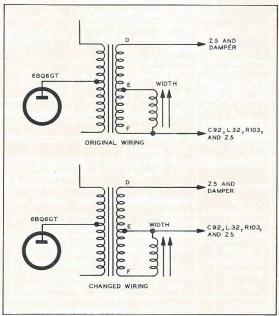


Figure 5. Wiring Changes in Horizontal-Output-Transformer Secondary, Models 50-T1600, 50-T1632, and 50-T1633

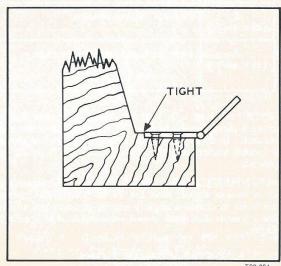


Figure 6. Substituting Hinge, Model 50-T1600

SERVICE HINTS

MODELS 50-T1104, CODE 122, AND 50-T1105, CODE 122 — BUILT-IN AERIAL LEAD DRESS

In some cases, improper performance of the built-in aerial may be traced to the way the lead from the built-in aerial to the aerial-input terminals is dressed. This lead should be kept away from the end of the dipole element nearest the power transformer, and dressed so that it is entirely in the clear.

ALL MODELS—BUILT-IN AERIAL PERFORMANCE ON CHANNEL 6

To make the built-in aerial matching system tune more sharply on Channel 6, one of the dipole elements was shortened. This change does not affect the reception of the built-in aerial on the other television channels. This change voids previous information stating that the built-in aerial tunes on all channels except 6.

ALL 10", 12", AND 16" MODELS — CRT AND DEFLECTION-YOKE EXTENSION CABLES

To greatly facilitate service bench work, CRT and deflection-yoke extension cables may be prefabricated from the following Accessory parts:

- Deflection plug and cable assembly, Part No. 41-3860-6
 Octal Socket and Cable, Part No. 41-3777
- CRT cable and socket assembly, Part No. 41-3772
 CRT plug, Part No. 54-4571-1

This cable is approximately 28" long.

MODEL 50-T1400 SERIES, RUNS 1 AND 2 — REDUCTION OF VERTICAL JITTER

Vertical jitter in the picture due to line voltage fluctuations in the above models may be greatly reduced or eliminated, in the special cases where necessary, by adding an extra filter network to the B supply feeding the vertical oscillator and discharge tube. This network consists of a 10,000-ohm resistor and a 10-µf. condenser. The circuit is shown in figure 7,

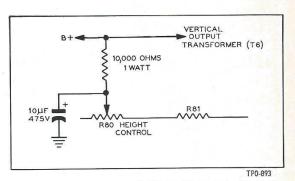


Figure 7. Addition of Filter Network, Model 50-T1400 Series, Runs 1 and 2

MODEL 50-T1400 SERIES PREVENTING HORIZONTAL-SYNC TEAR AT MINIMUM CONTRAST CONTROL SETTING

Horizontal tear at the top of the picture may be caused by a horizontal damper lead radiating energy into the sync separator circuit.

The effect of this radiation may be reduced by redressing these leads (refer to figure 7, page 5, of Service Bulletin 49T3, PR-1822) as follows:

Redress the blue lead on B3-3 to the mounting jack of the high-voltage condenser, under C46, and under T6 to the condenser mounting jack. This wire connects C51 to C79, and radiates some horizontal output signal to the lead connected from B3-2 to B8-3, which is in the sync separator grid circuit. Also redress this wire (from B3-2 to B8-3) on the 6SN7GT side of B8, under R76 to B8-3.

ALL MODELS — ALIGNMENT PRACTICES

As a general rule, the practice of removing the horizontal-oscillator tube during alignment of the r-f and i-f circuits, in order to disable the high-voltage, is detrimental, for the following reasons: the change in B+voltage may be enough to change the response curve. This would be especially detrimental in fringe areas. Second, in some receivers, removing the drive from the horizontal-output tube causes an abnormally high level of plate current to be drawn by this tube. This may eventually damage the output tube, and in some cases, may overload and damage the low-voltage rectifier tube.

3. Adjusting the width coil also changes the amplitude of the plate pulse, and thus affects the oscillations.

The adjustments of linearity, drive, and width are all interrelated; therefore, compromising them to reduce Barkhausen effect should not be allowed to deteriorate the picture width, linearity, or brilliance to any marked degree.

MODEL 48-2500 — GROUNDING KEYSTONING MAGNETS

Before adjusting the keystone magnets, it is advisable to ground the metallic magnet band clamp, to eliminate the static high-voltage charge on the magnets. Where a plastic magnet band clamp is encountered, it is necessary to ground the individual magnets themselves momentarily.

CORRECTIONS AND ADDITIONS TO SERVICE MANUALS AND BULLETINS

Model 50-T1400 Series, 50-T1404 and 50-T1105 (PR-1793, PR-1822) — Correction of Part Number

The correct part number of C74, the 500-µµf., 25-volt filter condenser across the 15-ohm resistor in the negative return of the low-voltage power supply, is 30-2570-40.

Model 7050 Tube Tester — Correction to 6W4GT Setting (Service Bulletin 50T2, PR-1853)

The setting given for the 6W4GT on page 11 should be as follows:

Tube	Filament	Short	Load	Quality
6W4GT	6	cAE	3	AC

Model 50-T1403 (PR-1829) — Additional Replacement Part

A securing clip for the oscillator adjustment cover escutcheon plate is now available for replacement pur-

poses. The part number is 1W57058FA22. It is referred to as a speed clip.

Model 50-T1481 (PR-1787) New Part

A new fiberboard baffle-and-cloth assembly is available for the above model. Its part number is 40-7860-1, and it may be used as a direct replacement for the old type baffle and cloth.

Part No. 76-5433 — Series Tuner — Additional Replacement Part (Supplementary Information to PR-1858)

The FINE TUNING condenser for the above tuners is available for replacement purposes. The part number is 31-6517-1. This condenser is made accessible by first moving L38-T (Channel 2) and L39-T (Channel 3) oscillator coils. This may be done by compressing the coil mounting clips, then carefully pushing the coil back into the tuner, out of the way.

GENERAL

SUBSTITUTING PART NO. 76-5433-1 TUNERS FOR PART NO. 76-4402-6 AND PART NO. 76-5433 TUNERS

Tuner Part No. 76-5433-1 is built only to be shock-mounted; therefore, when using it to replace other tuners, mounting brackets are required. These brackets, including installation instructions, may be ordered by Part No. 45-9591.

MODEL 7050 TUBE TESTER — REVISED 1B3GT SETTING

The following setting for the 1B3GT tube supersedes those previously issued.

Filament	Short Test	Quality	Load
1	kmop	KMOPT	8

MODEL 7050 TUBE TESTER — REVISED 6AG5 SETTING

Filament	Short Test	Quality	Load
6	bnrAGEF	ABGNT	2

TELEVISION SERVICE PUBLICATIONS

As an aid in selecting the proper service information for a particular television model, all '50 Philco television and television-radio-phonograph models built to date, and their corresponding service publications, are listed below. The PR number in *ITALICS* is the basic manual for that particular model.

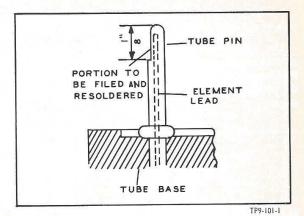


Figure 8. Pin of Picture Tube Filed for Resoldering, All Models

MODEL	CODE	RUN NO.	DESCRIPTION	SERVICE PUBLICATION
50-T702	121	1	7" Table Model	PR-1672
50-T702	121	2	7" Table Model	PR-1765—1672
50-T1104 50-T1105 50-T1106 50-T1104 50-T1104 50-T1104	121 121 121 122 123 123	1 1 1 1 2 to 4	10" Table Model 10" Table Model 10" Table Model 10" Table Model 10" Table Model 10" Table Model	PR-1792—1771 PR-1771 PR-1771 PR-1792—1771 PR-1793 PR-1822—1793
50-T1400	121	1	12" Table Model	PR-1793
50-T1402	121	1	12" Table Model	PR-1793
50-T1400 50-T1402 50-T1401 50-T1430	121 121 121 121	2 to 5 2 to 5 2 to 5 2 to 5 2 to 5	12" Table Model 12" Table Model 12" Table Model 12" Console Model	PR-1822—1793 PR-1822—1793 PR-1822—1793 PR-1822—1793
50-T1400	121	6 and 7	12" Table Model	PR-1823—1822—1793
50-T1401	121	6 and 7	12" Table Model	PR-1823—1822—1793
50-T1402	121	6 and 7	12" Table Model	PR-1823—1822—1793
50-T1430	121	6 and 7	12" Console Model	PR-1823—1822—1793
50-T1400	121	8 to 10	12" Table Model	PR-1825—1823—1822—1793
50-T1401	121	8 to 10	12" Table Model	PR-1825—1823—1822—1793
50-T1402	121	8 to 10	12" Table Model	PR-1825—1823—1822—1793
50-T1430	121	8 to 10	12" Console Model	PR-1825—1823—1822—1793
50-T1403	121	11 to 13	12" Table Model	PR-1829—1825—1823—1822—1793
50-T1404	121	11 to 13	12" Table Model	PR-1829—1825—1823—1822—1793
50-T1406	121	11 to 13	12" Table Model	PR-1829—1825—1823—1822—1793
50-T1400	121	14 to 22	12" Table Model 12" Console Model	PR-1853—1829—1825—1823—1822—1793
50-T1401	121	14 to 22		PR-1853—1829—1825—1823—1822—1793
50-T1402	121	14 to 22		PR-1853—1829—1825—1823—1822—1793
50-T1403	121	14 to 22		PR-1853—1829—1825—1823—1822—1793
50-T1404	121	14 to 22		PR-1853—1829—1825—1823—1822—1793
50-T1406	121	14 to 22		PR-1853—1829—1825—1823—1822—1793
50-T1430	121	14 to 22		PR-1853—1829—1825—1823—1822—1793
50-T1402	122	1	12" Table Model	PR-1829—1825—1823—1822—1793
50-T1406	122	1	12" Table Model	PR-1829—1825—1823—1822—1793
50-T1432	122	1	12" Console Model	PR-1829—1825—1823—1822—1793
50-T1402	122	2 to 6	12" Table Model	PR-1853—1829—1825—1823—1822—1793
50-T1406	122	2 to 6	12" Table Model	PR-1853—1829—1825—1823—1822—1793
50-T1432	122	2 to 6	12" Console Model	PR-1853—1829—1825—1823—1822—1793
50-T1404	123	1	12" Table Model	PR-1844
50-T1406	123	1	12" Table Model	PR-1844
50-T1404	123	2 to 4	12" Table Model	PR-1897—1844
50-T1406	123	2 to 4	12" Table Model	PR-1897—1844

TELEVISION SERVICE PUBLICATIONS (Cont.)

MODEL	CODE	RUN NO.	DESCRIPTION	SERVICE PUBLICATION
50-T1404 50-T1406 50-T1432	124 124 124	1 1 1	12" Table Model 12" Table Model 12" Console Model	PR-1844 PR-1844 PR-1844
50-T1404 50-T1406 50-T1432	124 124 124	2 to 4 2 to 4 2 to 4	12" Table Model 12" Table Model 12" Console Model	PR-1897— <i>1844</i> PR-1897— <i>1844</i> PR-1897— <i>1844</i>
50-T1403 50-T1404 50-T1406	125 125 125	1 1 1	12" Table Model 12" Table Model 12" Table Model	PR-1846— <i>1844</i> PR-1846— <i>1844</i> PR-1846— <i>1844</i>
50-T1403 50-T1404 50-T1406	125 125 125	2 to 7 2 to 7 2 to 7	12" Table Model 12" Table Model 12" Console Model	PR-1897—1846— <i>1844</i> PR-1897—1846— <i>1844</i> PR-1897—1846— <i>1844</i>
50-T1443	122	1	12" Consolette	PR-1774
50-T1443	122	1 Z	12" Consolette	PR-1822—1774
50-T1443	123	1	12" Consolette	PR-1800—1774
50-T1443	123	2 to 4	12" Consolette	PR-1822—1800—1774
50-T1443	123	5 to 6	12" Consolette	PR-1823—1822—1800—1774
50-T1443	123	6Z and 7	12" Consolette	PR-1829—1823—1822—1800— <i>1774</i>
50-T1477 through 50-T1482	121	1	12" Radio-Phono-TV	PR-1787
50-T1477 through 50-T1482	121	2 to 4	12" Radio-Phono-TV	PR-1829—1787
50-T1476 50-T1484	121 121		12" Radio-Phono-TV 12" Radio-Phono-TV	PR-1853—1829— <i>1787</i> PR-1853—1829— <i>1787</i>
50-T1483 50-T1483	121 121	1 1Z to 3	12" Radio-Phono-TV 12" Radio-Phono-TV	PR-1802 PR-1829—1802
50-T1630	121	1	16" Console	PR-1791
50-T1630	121	2 and 3	16" Console	PR-1822—1791
50-T1630	121	1Z and 2	16" Console	PR-1823—1822—1791
50-T1630	121	3	16" Console	PR-1825—1823—1822—1791
50-T1630	121	3X and 4	16" Console	PR-1829—1823—1822—1791
50-T1630	122	- 1	16" Console	PR-1825—1791
50-T1600 50-T1632 50-T1633	121 121 121	1 1 1	16" Table Model 16" Console Model 16" Console Model	PR-1835 PR-1835 PR-1835
50-T1600 50-T1632 50-T1633	121 121 121	2 to 4 2 to 4 2 to 4	16" Table Model 16" Console Model 16" Console Model	PR-1853—1835 PR-1853—1835 PR-1853—1835
50-T1600 50-T1632 50-T1633	121 121 121	5 to 10 5 to 10 5 to 10	16" Table Model 16" Console Model 16" Console Model	PR-1897—1853—1835 PR-1897—1853—1835 PR-1897—1853—1835
50-T1600 50-T1632 50-T1633	122 122 122	Market S. S. L.	16" Table Model 16" Console Model 16" Console Model	PR-1854—1835 PR-1854—1835 PR-1854—1835
76-5411—Series Tuner			Philco 12-Position Turret Tuner	PR-1803
76-4402—Series 76-5433—Series 76-5411—Series Tuners			Philco 12-Channel Turret Tuner and 12-Channel Wafer-Switch Tuner	PR-1803—1858