

TELEVISION Service Manual

PUBLISHED BY RADIO COLLEGE OF CANADA, TORONTO

1963 Supplement No. 49

GORDON OLIVER TELEVISION ADMIRAL RADIO SERVICE YO 4815 923 CALVERHALL ST. NORTH VANCOUVER, B. C.

Chassis	Page
16A3X All available data	48, 49, 50
16A3Y See 16A3X.	
16A3Z See 16A3X.	
16B3X See 16A3X.	
18E1X All available data	51, 52

CANADIAN GENERAL ELECTRIC

Chassis	Page
M587 (No Code) Circuit	53, 54
M587 Tuner Circuit	6
M587 Alignment	3 to 5
M587 Chassis layout	2
M587 Printed boards	7, 8
M587 Coil identification	3

Model

91T21 Uses chassis M587.
91T22 Uses chassis M587.
97T21 Uses chassis M587.

DUMONT

Chassis

DM19T See Emerson EM19T in Supp. #44.
DM21TB See DM21TA in Supp. #44.

ELECTROHOME

Model

Annapolis B See Courtleigh in Supp. #44.
Derwick B See Courtleigh in Supp. #44.
Lockport B See Courtleigh in Supp. #44.

EMERSON

Model

EM21T, A See Dumont DM21TA in Supp. #44.

MARCONI

Chassis

Chassis	Page
TV-549 Circuit	20, 21
TV-549 Alignment	22 to 24
TV-549 Voltages	25
TV-549 Chassis layout	23
TV-565 Circuit	55, 56
TV-565 Tuner Circuit	19
TV-565 Alignment	15 to 18
TV-565 Chassis layout	17
TV-565 Coil identification	19
TV-566 See TV-565.	
TV-569 Circuit	57, 58
TV-569 Tuner Circuit	30
TV-569 Alignment	26 to 29
TV-569 Chassis layout	28
TV-572 See TV-569.	
TV-575 See TV-569.	

Model

TV-106K24 Uses chassis TV-575.
TV-106T19 Uses chassis TV-549.
TV-131K23 Uses chassis TV-572.
TV-132W23 Uses chassis TV-569.
TV-133W23 Uses chassis TV-569.
TV-134K23 Uses chassis TV-572.
TV-135K23 Uses chassis TV-572.
TV-136K23 Uses chassis TV-572.
TV-137K23 Uses chassis TV-572.
TV-138K23 Uses chassis TV-572.
TV-140K23 Uses chassis TV-572.
TV-141K23 Uses chassis TV-572.
TV-143K23 Uses chassis TV-572.
TV-320K23 Uses chassis TV-565.
TV-321K23 Uses chassis TV-565.
TV-322K23 Uses chassis TV-565.
TV-324W23 Uses chassis TV-566.

PHILCO

Chassis

Chassis	Page
12N31 Circuit	59, 60
12N31 Tuner circuit	34
12N31 Alignment	31, 35, 36
12N31 Layouts	32, 33
12N31 Coil identification	31
12N33 See 12N31.	

PHILIPS

Chassis

Chassis	Page
S-3 Circuit	61, 62
S-3 Tuner circuit	43
S-3 Alignment	37 to 41
S-3 Chassis layout	42
S-3 Printed boards	44, 45

Model

19TC012U Uses S-3 chassis.
19TC022U Uses S-3 chassis.
19TC612U Uses S-3 chassis.
19TC622U Uses S-3 chassis.
23CC042U Uses S-3 chassis.
23CC052U Uses S-3 chassis.
23CC062U Uses S-3 chassis.
23CC072U Uses S-3 chassis.
23TC032U Uses S-3 chassis.

RCA-VICTOR

Chassis

Chassis	Page
CT1905A to D Circuit	63, 64
CT1905 Tuner Circuits	77, 78
CT1905 Radio Circuit	79
CT1905 Alignment See CT2301 in Supp. #48.	
CT2303A, B Circuit	65, 66
CT2303 Tuner Circuit	82
CT2303 Alignment See CT2301 in Supp. #48.	
CT2303 Waveforms, Layout	80
CT2303 Printed Boards	81
CT2303 Coil identification	80

Model

19T363 Uses chassis CT1905C.
19TCR318A to D Uses chassis CT1905A.
19TCR319A, B Uses chassis CT1905B.
19TCR320 Circuit & layout - See CT1903 in Supp. #48.
Other data see CT1905.
23T385 (Ensign) Uses chassis CT2303A.
23T386 (Eden) Uses chassis CT2303B.
23TC620 (Darwin) Uses chassis CT2303A.
23TC622 (Bentley) Uses chassis CT2303A.
23TC623 (Commander) Uses chassis CT2303B.
23TC624 (Ramsey) Uses chassis CT2303B.
23TC625 (Lindsey) Uses chassis CT2303A.

ROGERS-MAJESTIC

Model

23CC642U See S-2 In Supp. #47.
24CC652U See S-2 in Supp. #47.

SIMPSONS-SEARS

Chassis

Chassis	Page
C817.19310 Circuit	67, 68
C817.19310 Tuner Circuit	86
C817.19310 Alignment	83
C817.19310 Layouts	84, 85
C817.19310 Coil identification	84
C817.19310.5 See C817.19310.	
C817.19410 Circuit	69, 70
C817.19410 Layout	87
C817.19410 Other data see C817.19310.	
C817.19411 Circuit	71, 72
C817.19411 Layout	88
C817.19411 Other data see C817.19310.	
C817.19411.5 See C817.19411.	
C817.19415 See C817.19410.	

Model

13380 See Dumont 19DP2 in Supp #48.
(Not applicable in all cases.)
15340 Uses chassis C817.19310.
15345 Uses chassis C817.19310.5.
15360 Uses chassis C817.19410.
15365 Uses chassis C817.19415.
15385 Uses chassis C817.19310.5.
15380 Uses chassis C817.19310.
16390 Uses chassis C817.19411.
16395 Uses chassis C817.19411.5

VIKING

Model

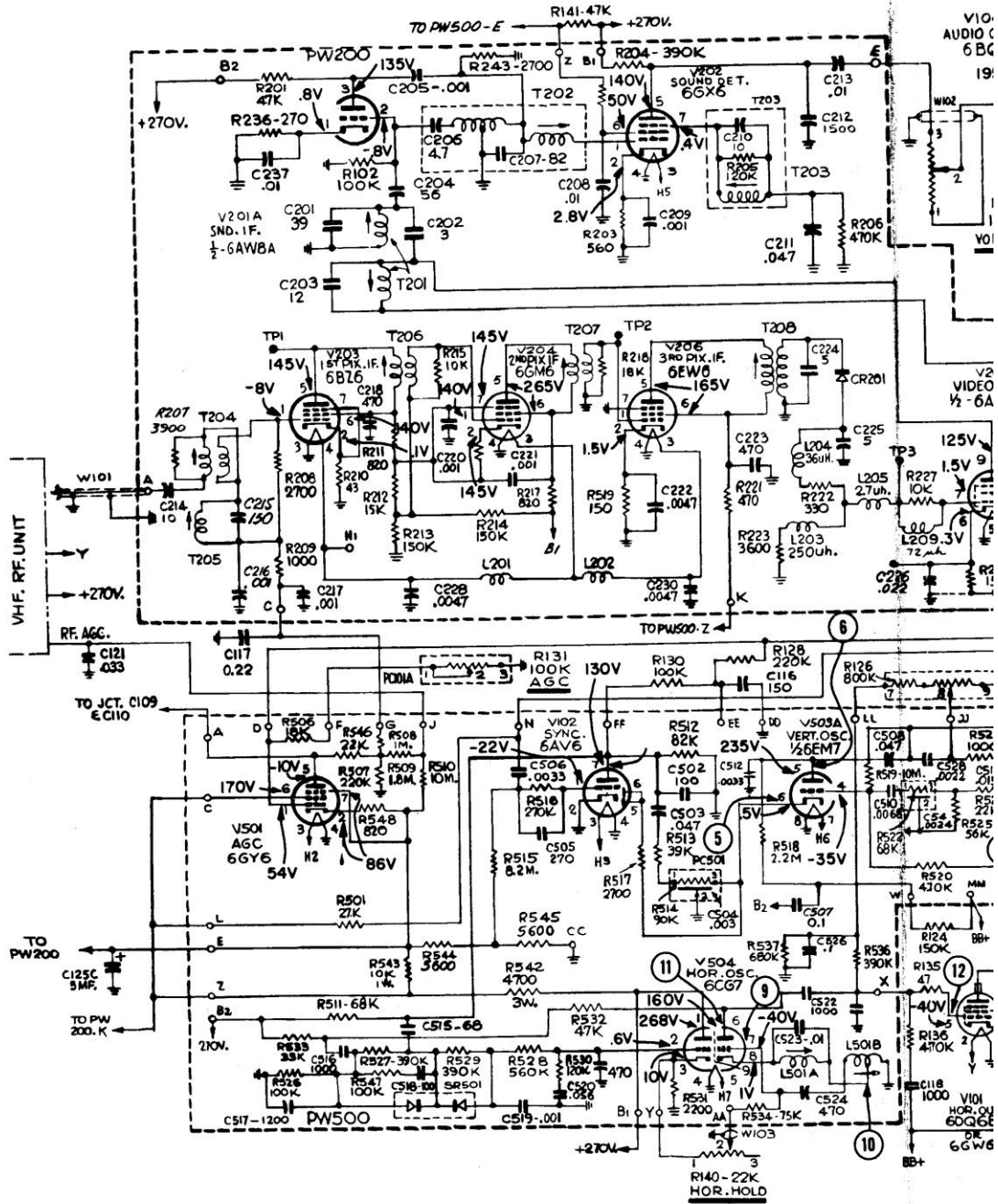
TPF-533 See TRPSE-530.
TPF-561 See Electrohome Decor in Supp. #44.
TRPSE-530 TV Circuit See Electrohome Courtleigh in Supp. #44.
TRPSE-530 Tuner circuits 9, 11
TRPSE-530 Amplifier Circuit 10
TRPSE-530 Alignment (AM/FM) 13
TRPSE-530 Chassis layouts 12, 14

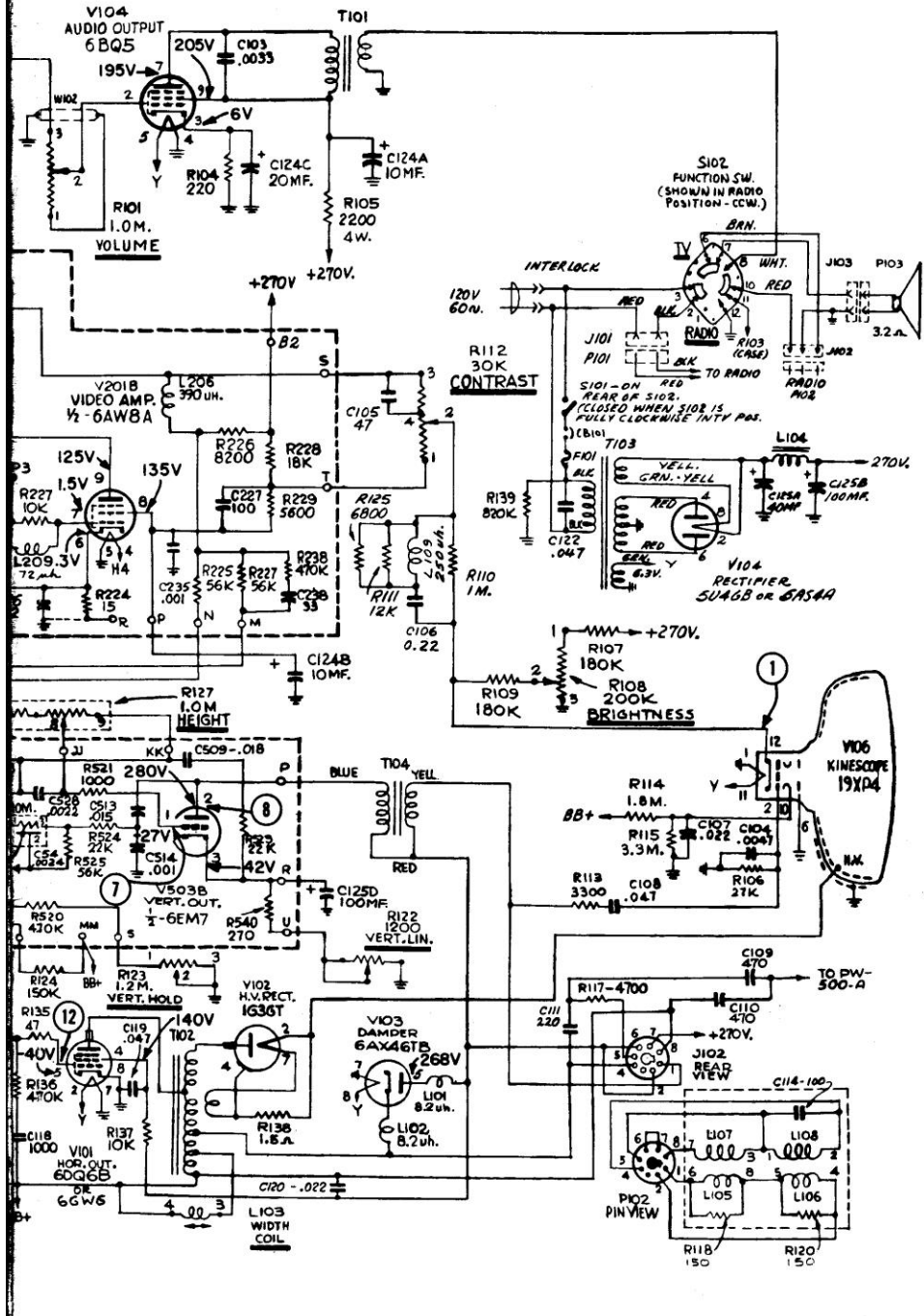
ZENITH

Chassis

Chassis	Page
16J22, Q, QS Circuit	73, 74
16J22 Layouts	89, 90
16J27, Q, T, QT, QS Circuit	75, 76
16J27 Layouts	91, 92
All 1962 tuners	93 to 110

RCC
TELEVISION
Supplement
No. 49





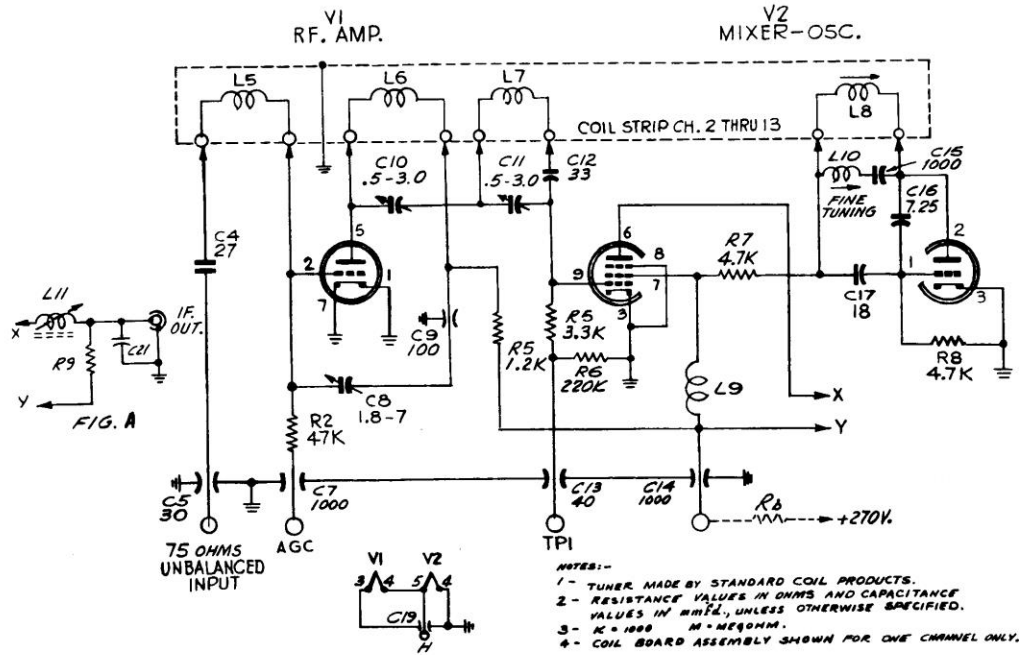


Figure 7—Schematic Diagram For 70-13882 Tuner.

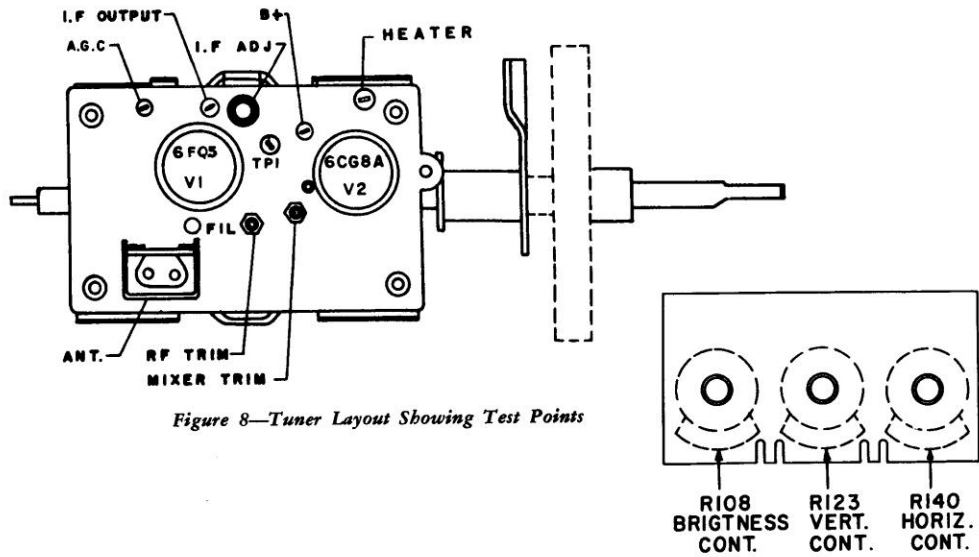
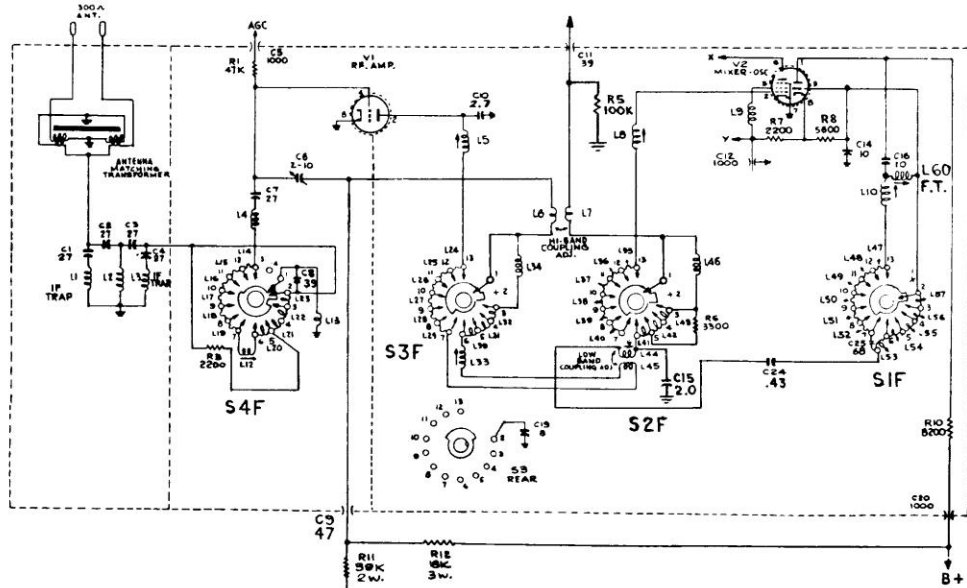


Figure 8—Tuner Layout Showing Test Points



HEATER CONNECTIONS

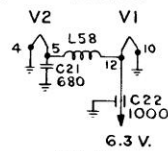


FIG. 2

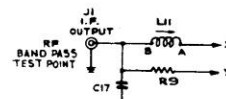
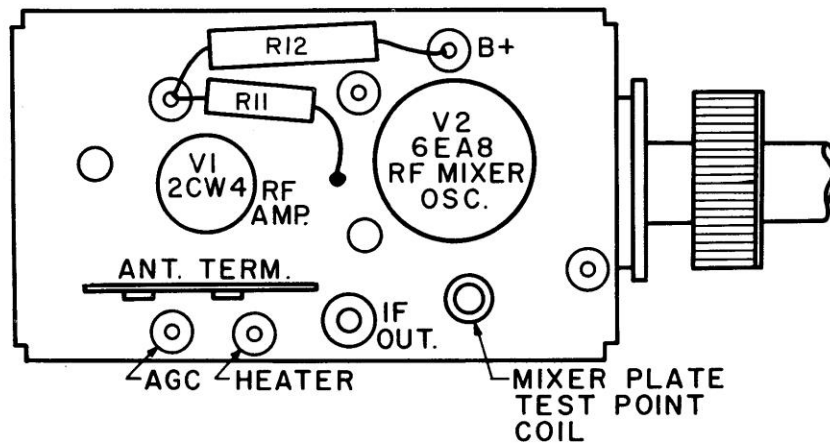
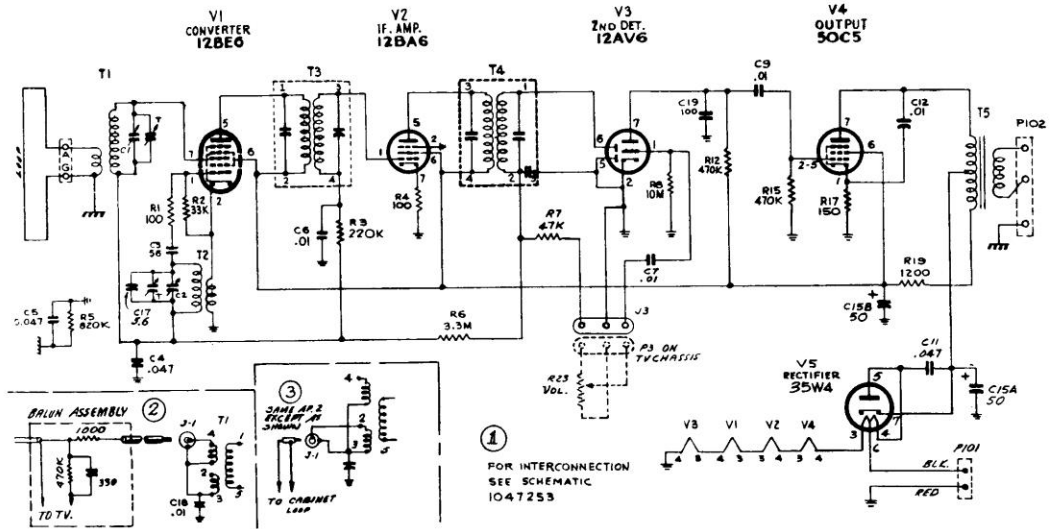


FIG. A

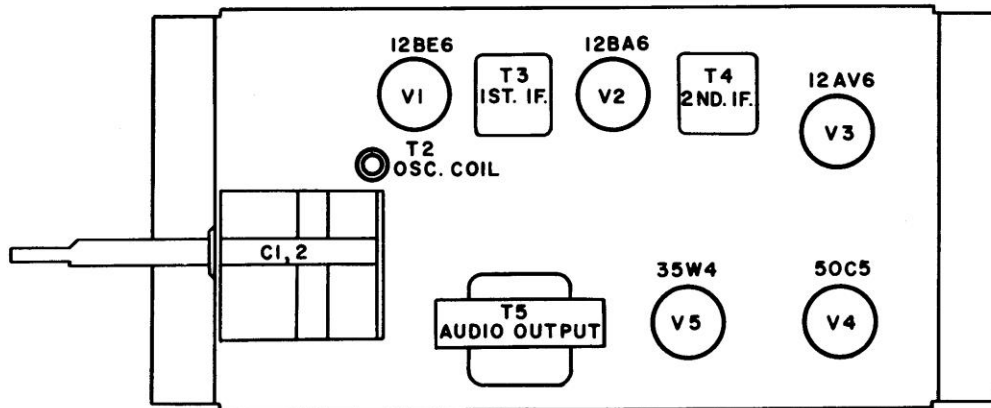
TUNER SCHEMATIC DIAGRAM FOR CHASSIS CT1905A, B & C.



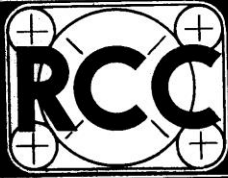
TUNER LAYOUT SHOWING COMPONENTS AND
TEST POINTS FOR CHASSIS CT1905A, B & C.



RADIO SCHEMATIC FOR MODELS 19TCR318A, B, C & D, 19TCR318 & 19TCR319A, B



RADIO CHASSIS LAYOUT



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1962 Supplement No.48

INDEX

ADMIRAL

Chassis	Page
18A1X All data.....	45 to 48
18B1X All data.....	45 to 48
18C1X All data.....	42 to 44
20A8X All data.....	49 to 52

CGE

Chassis	Page
M579 No Code Circuit.....	53, 54
M579 Code W 19" Circuit.....	57, 58
M579 Code W 23" Circuit.....	55, 56
M579 Tuner circuits.....	3, 4
M579 Alignment.....	2, 5
M579 Voltages.....	7
M579 Production changes.....	6
M579 Coil identification.....	7

The following use the M579 chassis:

30T11	
32T12 (Fulham)	
32T13 (Gatineau)	
33T10 (Forsythe)	
33T13	
33T14 (Fairport)	
33T15 (Grayson)	
33T16 (Fairview)	
33T17 (Glendale)	
33T21	
33T22	
36T14 (Fenwick)	
36T15 (Forest)	
36T17 (Gainford)	
36T23	
39T11	
39T14	
92T11 (Designer)	
92T12 (Custom Designer)	
92T16 (Custom Designer II)	
98T11 (H. M. L. Model)	
98T18 (H. M. L. Model)	

DUMONT

Model	Page
19DP2 Circuit.....	61, 62
19DP2 Tuner Circuit.....	16
19DP2 Alignment.....	15
19DP2 Resistances.....	14
19DP2 Layouts.....	13, 14

ELECTROHOME

Model	Page
Brewster Circuit.....	59, 60
Brewster Tuner Circuit.....	11
Brewster Alignment.....	8
Brewster Layouts.....	9, 10, 12
Hampton See Brewster.	
Richelieu See Brewster.	
Roxborough See Brewster.	
CHT213-610 See Brewster.	
Kalmar TV See Belmont in Supp. #46	
Kimberley See Belmont in Supp. #46	

EMERSON

Model	Page
E19P Circuit.....	61, 62
E19P Tuner Circuit.....	16
E19P Alignment.....	15
E19P Resistances.....	14
E19P Layouts.....	13, 14

MARCONI

Chassis	Page
TV-535 Circuit.....	18, 19
TV-535 Tuner Circuit.....	24
TV-535 Alignment.....	17, 19 to 22
TV-535 Layout.....	21
TV-535 Voltages.....	23
TV-535 Coil identification.....	23
TV-537 See TV-535.	
Model	
TV-117K23 Uses chassis TV-535.	
TV-122K23 Uses chassis TV-537.	

PHILCO

Chassis	Page
10L31 Run 4 See 11N31.	
11N31 Circuit.....	63, 64
11N31 Tuner Circuit, Coils.....	27
11N31 Alignment.....	25, 26
11N31 Layouts.....	28, 29
11N32 See 11N31.	
11N33 See 11N31.	
11N43 Circuit.....	65, 66
11N43 Layout.....	67, 68
11N43 Other data see 11N31.	
12N43 Circuit.....	69, 70
12N43 Tuner Circuit, Layouts.....	30, 31
12N43 Alignment See 11N31 & Page 30.	
12N44 See 12N43.	
12N45 See 12N43.	
Model	
3700 Uses chassis 11N43.	
3702 L-A-G Uses chassis 11N43.	
3704 GL-PL Uses chassis 11N43.	
3706 BL Uses chassis 11N43.	
3720CB Uses chassis 12N43.	
3722BC Uses chassis 12N43.	
3724WA Uses chassis 12N43.	
4800 Uses chassis 10L31.	
4806 Uses chassis 11N31.	
4812 Uses chassis 11N31.	
4815 Uses chassis 11N31.	
4817 Uses chassis 11N31.	
4818 Uses chassis 11N33.	
4819 Uses chassis 11N33.	
4820 Uses chassis 11N32.	
4828 Uses chassis 11N33.	
4856 Uses chassis 12N44.	
4860 Uses chassis 12N45.	

RCA-VICTOR

Chassis	Page
CT1903 A to D.....	71, 72
CT1903 Radio Circuit.....	37
CT1903 Tuner Circuit.....	34, to 36
CT1903 Alignment see CT1725 in Supp. #47.	
CT1903 Layouts.....	33
CT2301 A to D Circuit.....	73, 74
CT2301 Tuner Circuits.....	88, 91
CT2301 Alignment.....	39, 40, 89, 90
CT2301 Layouts.....	41, 87
Model	
19PT912A Tuner Circuit.....	38
19PT912A Other data see 19PT912 Supp. #46.	
19T361 Uses chassis CT1903C.	
19TC362 Uses chassis CT1903D.	
19TCR316 Uses chassis CT1903A.	
19TCR318 Uses chassis CT1903B.	
23TA606 (Credenza III) Uses CT2301D.	
23TC600 (Gainsborough) Uses CT2301C.	
23TC607 (Winston) Uses chassis CT2301A.	
23TC608 (Royal) Uses chassis 2301A.	
23TC615 (Patrician) Uses chassis CT2301A.	
23TC616 (Hillsborough) Uses CT2301B.	

SIMPSON-SEARS

Chassis	Page
C817.19106 Circuit.....	75, 76
C817.19106 Tuner Circuit.....	92
C817.19106 Alignment, Coils.....	94
C817.19106 Layout.....	93
C817.19106.5 See C817.19106.	
Model	
16330 Uses chassis C817.19106.	
16335 Uses chassis C817.19106.5.	

VIKING

Model
TPF-485R See TCE-481 in Supp. #44.

WESTINGHOUSE

Chassis	Page
X-2377 Rev. "A" Circuit.....	77, 78
X-2377 Rev. "B" Circuit.....	79, 80
X-2377 Tuner, Speaker Circuits...	96, 97
X-2377 Mechanical detail.....	95
X-2377 Other data see X-2377 in Supp. #40.	
Model	
C2600 Uses chassis X-2377-63.	
C2700 Uses chassis X-2377-63.	
C4715 Uses chassis X-2377-25.	
C4715R Uses chassis X-2377-35.	
C3700/02, R Uses chassis X-2377-45.	
C5700 Uses chassis X-2377-55.	
K3720 Uses chassis X-2377-13.	
K3810/20/40 Uses chassis X-2377-13.	
K3830 Uses chassis X-2377-13.	
K3830R Uses chassis X-2377-33.	
K3830X Uses chassis X-2377-33X.	
K3831 Uses chassis X-2377-62.	
K3845 Uses chassis X-2377-34.	
K3847 Uses chassis X-2377-61.	
K3855 Uses chassis X-2377-61.	
K3850/60 Uses chassis X-2377-43.	
K4030 Uses chassis X-2377-34.	
K4040 Uses chassis X-2377-34.	
K4280/90 Uses chassis X-2377-13.	
K4310/15 Uses chassis X-2377-23.	
P3316 See X-2419-11 in Supp. #44.	
P3328 See X-2419-11 in Supp. #44.	
P3330 See X-2419-11 in Supp. #44.	
T3530 Uses chassis X-2377-13.	
T3540 Uses chassis X-2377-13X.	
T3550 Uses chassis X-2377-62.	

ZENITH

Chassis	Page
6J23, Q, QS (1962) Circuit.....	83, 84
6J23, Q, QS Layouts.....	100, 101
6J28QS (1962) Circuit.....	85, 86
6J28QS Layouts.....	102, 103
16J20, Q (1962) Circuit.....	81, 82
16J20, Q Layouts.....	98, 99
Space Command 300.....	104, 105
Space Command 400.....	104, 106

**RCC
TELEVISION
Supplement
No.48**

PICTURE IF TRANSFORMER AND TRAP ADJUSTMENTS
TEST EQUIPMENT CONNECTIONS:

BIAS SUPPLY Connect to terminal "C" of PW200, apply -3.5V.
 SIGNAL GENERATOR Connect to mixer grid injection point on tuner in series with 1000mmf capacitor. Use shortest leads possible. See figure.
 VACUUM TUBE VOLTMETER Connect to 2nd detector output at terminal TP-3 of PW200 using direct probe. Ground lead connected to chassis. Set Tuner to Channel 4.

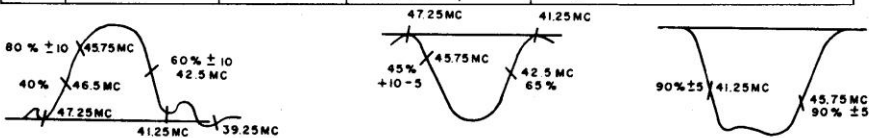
STEP	SIGNAL GENERATOR	ADJUST	REMARKS	
1	Peak mixer plate coil	45.0 Mcs.	T1 on tuner	Max. output on meter
2	Peak 1st IF grid coil	44.6 Mcs.	T-204 bottom coil	Max. output on meter
3	Preset 47.25 Mcs. trap	47.25 Mcs.	T-205 bottom coil	Minimum output indication on meter
4	Preset 41.25 Mcs. trap		T-204 top	Minimum output on meter
5	Preset 39.25 Mcs. trap		T-205 top	Minimum output on meter
6	Peak 2nd pix IF Trans.	45.5 Mcs.	T-207	Peak T-207 and T-206 on frequency for maximum output on meter. Adjust generator output for 3 volts on meter when finally peaked.
7	Peak 1st pix IF Trans.	43.0 Mcs.	T-206	

SWEEP ALIGNMENT OF PICTURE IF

TEST EQUIPMENT CONNECTIONS:

BIAS SUPPLY Same as picture IF transformer and trap adjustment.
 SIGNAL GENERATOR Loosely coupled to sweep cable to provide markers.
 VACUUM TUBE VOLTMETER Connect to TP-3 on PW200. Use DC probe.

STEP	SWEEP GENERATOR	SIGNAL GENERATOR	ADJUST	REMARKS
Connect scope to TP-3 PW200 using direct probe in series with 100K resistor. Set scope sensitivity to 3V P.P. Connect sweep generator to V205-1.				
1	Adjust top and bottom T-208	40-50 Mc (IF)	41.25 Mc. 45.75 Mc.	T-208 top & bott. Adjust for curve shown in Curve "C" bottom core controls frequency top core controls tilt.
Connect sweep to tuner IF injection point. Set tuner on Channel 4. Connect scope to TP-1 on PW200 thru plate loading jig on demod. probe. Ground grid of V-207. Set channel selector to Channel 4 and GRD grid of V-205-1				
2	Adjust mixer plate transformer	40-50 Mc (IF)	42.5 Mc. 45.75 Mc.	T-1 T-204 bott. Set scope sensitivity to 180 MV.P.P. adjust for max. gain and response "A" below.
3	Adjust IF input	40-50 Mc (IF)	42.5 Mc. 45.75 Mc.	
Remove detector jig and ground from V-205-1. Turn sweep generator down, or off frequency for non-indication on meter.				
4	Readjust 47.25 trap		47.25	T-205 bott. Minimum output
Increase bias to 5.5 volts. Remove ground from V-207-1. Connect scope to TP-3 on PW200, using direct probe in series with 100K resistor. Set scope sensitivity to 3 volt P.P. Connect sweep generator to test point on tuner. Adjust AGC control maximum ccw.				
5	Retouch IF Transformers	40-50 Mc (IF)	42.5 Mc. 45.0 Mc. 45.75 Mc.	T-206 T-207 Adjust T-206 and T-207 to obtain curve "B". If necessary retouch T-208 top to adjust tilt but do not adjust more than necessary.
Connect sweep to antenna terminals. Connect bias supply to RF AGC. on tuner, apply -2.5V.				
6	Check overall Channels 13 to 2		42.5 Mcs. 45. Mcs. 45.75 Mcs.	T-208 top Retouch slightly to correct any overall tilt. Maintain response "B". Permissible tilt 15% valley 10%.



SOUND IF, SOUND DETECTOR AND 4.5 Mc. TRAP ALIGNMENT

TEST EQUIPMENT CONNECTIONS:

- BIAS SUPPLY Apply 10 volts to the IF AGC, terminal "C" on PW200
- SIGNAL GENERATOR Connect to terminal TP-3 on PW200
- VACUUM TUBE VOLTMETER Connect to output of diode detector shown in Fig. 7. Set meter for negative voltage reading.
- MISCELLANEOUS Connect test diode detector as shown below.

STEP	SIGNAL GENERATOR	ADJUST	REMARKS
Set contrast control maximum clockwise position. Connect oscilloscope to terminal "A" on PW200, use demodulator probe.			
1	Adjust 4.5 Mc. trap	4.5 AM Modulated 400 cycles	T-201 bott. Adjust for minimum 400 cycle indication on oscilloscope.
2		4.5 Mcs.	T-202 Adjust T-202 for maximum on meter. Set generator for 1.0 to 1.5 volts when peaked. Peak cores at open of coils.
3	Adjust sound take-off trans.	4.5 Mcs.	T-201 top Adjust T-201 for maximum on meter. Set generator for 1.0 to 1.5 volts on meter.
4	Disconnect the diode test detector. Turn off signal generator and remove bias. Connect scope to voice coil terminal. Tune in strongest signal in area by adjusting volume control for normal volume, (¼ turn from C.C.W.) Turn core of T-203 flush with top of coil form.		
5	Adjust sound detector trans.	Observing oscilloscope and listening to audio output adj. T-203 clockwise to a peak. Continue clockwise to second louder peak and adjust for maximum on this peak.	

- L-101 62-12931 Coll-8.2 uh
- L-102 62-12931 Coll-8.2 uh
- L-103 62-12795 Coll-Width
- L-104 *62-14050 Coll-Reactor
- L-105 Coll-In Yoke
- L-106 Coll-In Yoke
- L-107 Coll-In Yoke
- L-108 Coll-In Yoke
- L-109 62-10950 Coll-Peaking-250 uh

- L-201 Coll-Printed
- L-202 62-73477 Coll-18 Turn
- L-203 *62-14071 Coll-250 uh
- L-204 *62-14062 Coll-36 uh
- L-205 62-107483 Coll-2.7 uh
- L-206 *62-14104 Coll-72 uh
- L-207 *62-14105 Coll-390 uh

- L-501 *62-14061 Coll-Horizontal Freq

- T-101 *62-14048 Transformer-Audio Output Transformer
- T-102 *62-14052 Transformer-H.V. Transformer
- T-103 *62-14087 Transformer-Power Transformer-60cyc
- T-104 *62-14051 Transformer-Vertical Output Trans.

- T-201 *62-14073 Transformer-4.5 mcs. & Sound Take-off Transformer
- T-202 *62-14070 Transformer-Sound Detector Grid trans.
- T-203 *62-14072 Transformer-Sound Detector-3rd Grid Transformer
- T-204 *62-14085 Transformer-1st IF Grid Transformer
- T-205 *62-14064 Transformer-1st IF Link Transformer
- T-206 *62-14066 Transformer-1st IF Plate Transformer
- T-207 *62-14067 Transformer-2nd IF Plate Transformer
- T-208 *62-14063 Transformer-3rd IF Plate Transformer

All schematics are shown in the latest condition at the time of printing.

All resistance value in ohms, K = 1000.

All capacitance values less than 1 in MF and above 1 in MMF unless otherwise noted.

Continued on page 89

All voltages measured with "Volt-Ohmyst" and with no signal input. Voltages should hold within ±20% with 117 v. a-c supply.

*Measured with 1 megohm, ½ watt resistor in series with meter probe.

Balloons ① ② etc., shown on schematics indicate points of observation of the waveforms shown below the individual schematic.

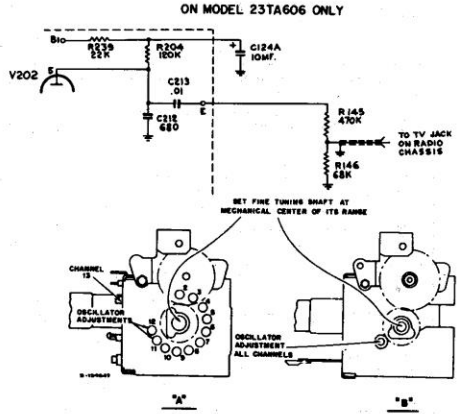
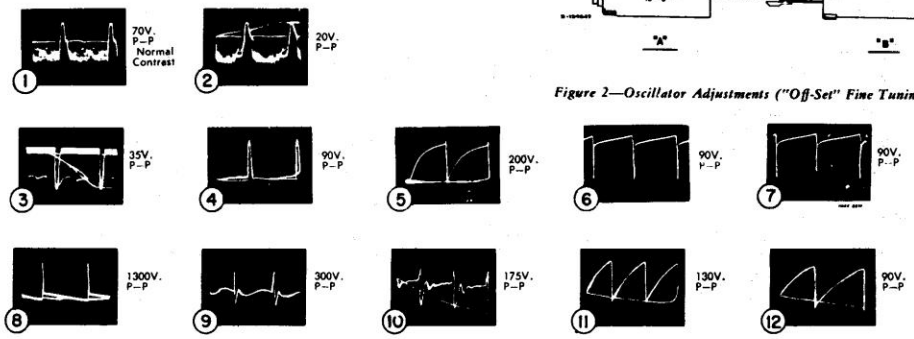


Figure 2—Oscillator Adjustments ("Off-Set" Fine Tuning)



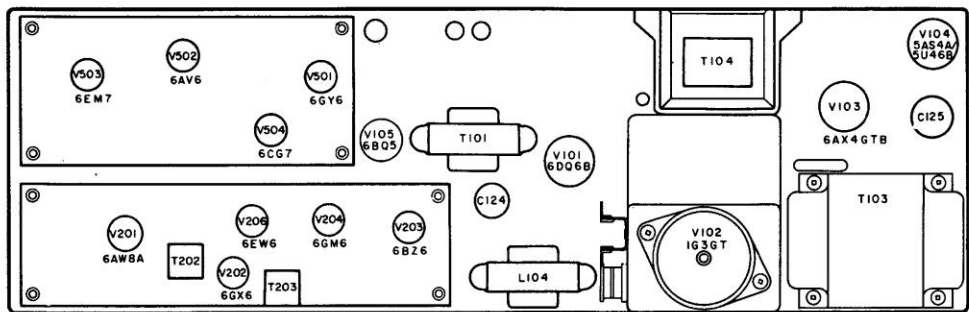


FIG. 12—CHASSIS LAYOUT — TOP VIEW — SHOWING COMPONENTS

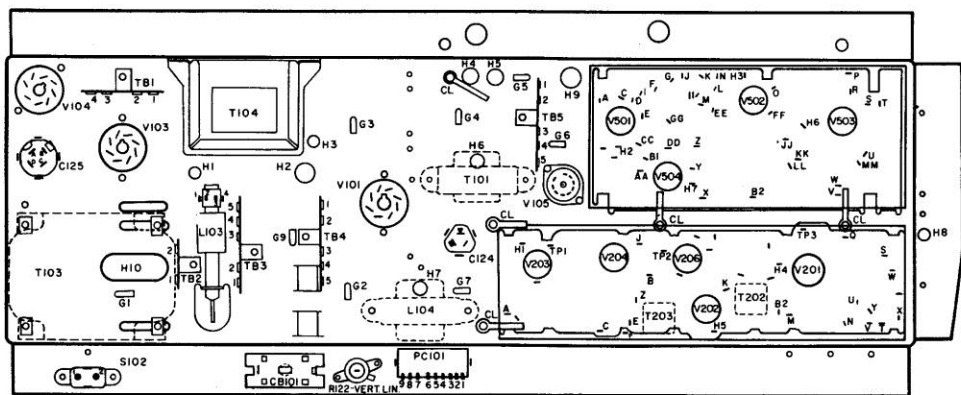
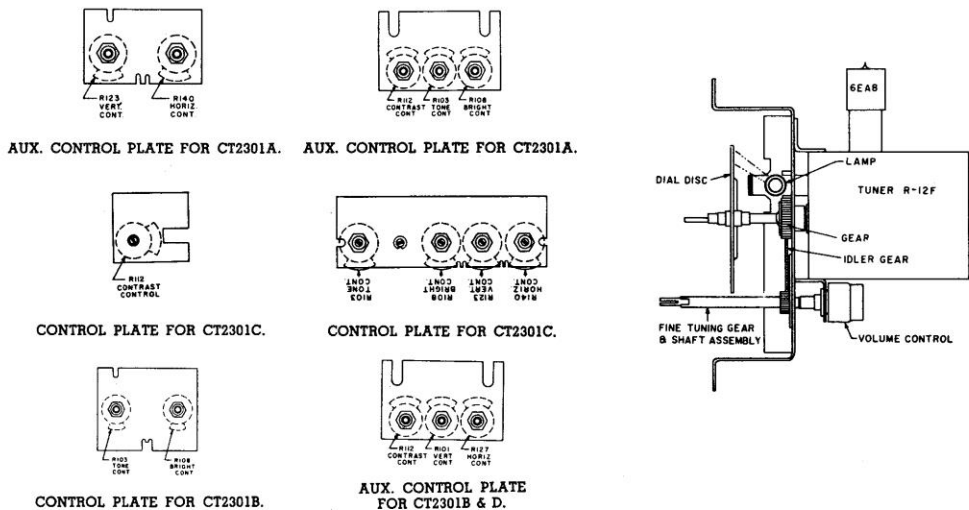


FIG. 13—CHASSIS LAYOUT — BOTTOM VIEW



PW200 SECURITY SEALED CIRCUIT ASSEMBLY

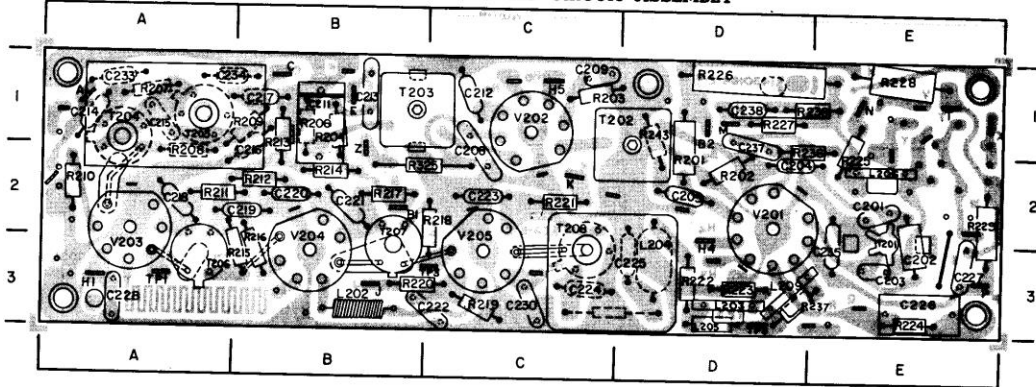


Figure 10—PW200 Sealed Circuit I-F and Video Assembly Composite Diagram

PW200 COMPONENT LOCATION GUIDE

C-201.....E2	C-216.....B2	C-228.....A3	L-206.....E2	R-211.....A2	R-223.....D3	R-243.....D1
C-202.....E2	C-217.....B1	C-230.....C3	L-209.....D3	R-212.....B2	R-224.....E3	T-201.....E2
C-203.....E3	C-218.....A2	C-233.....A1	R-201.....D2	R-213.....B1	R-225.....E2	T-202.....D1
C-204.....D2	C-219.....B2	C-235.....E3	R-202.....D2	R-215.....B2	R-226.....D1	T-203.....B1
C-205.....D2	C-220.....B2	C-237.....D1	R-203.....C1	R-216.....B3	R-227.....D1	T-204.....A1
C-208.....C2	C-221.....B2	C-238.....D1	R-204.....B1	R-217.....B2	R-228.....E1	T-205.....A1
C-209.....C1	C-222.....C3	L-202.....B3	R-205.....B1	R-218.....C2	R-229.....E2	T-206.....A3
C-211.....B1	C-223.....C2	L-203.....D3	R-206.....B1	R-219.....C3	R-230.....E1	T-207.....B3
C-212.....C1	C-224.....C3	L-204.....D3	R-207.....A1	R-220.....B3	R-235.....B2	T-208.....C2
C-213.....B1	C-225.....D3	L-205.....D3	R-208.....A2	R-221.....C2	R-236.....D1	CR-201.....C3
C-214.....A1	C-226.....E3	R-209.....D3	R-209.....B1	R-222.....D3	R-237.....D3	
C-215.....A1	C-227.....E3	R-210.....A2	R-210.....A2	R-223.....D3	R-238.....D1	

PW500 SECURITY SEALED CIRCUIT ASSEMBLY

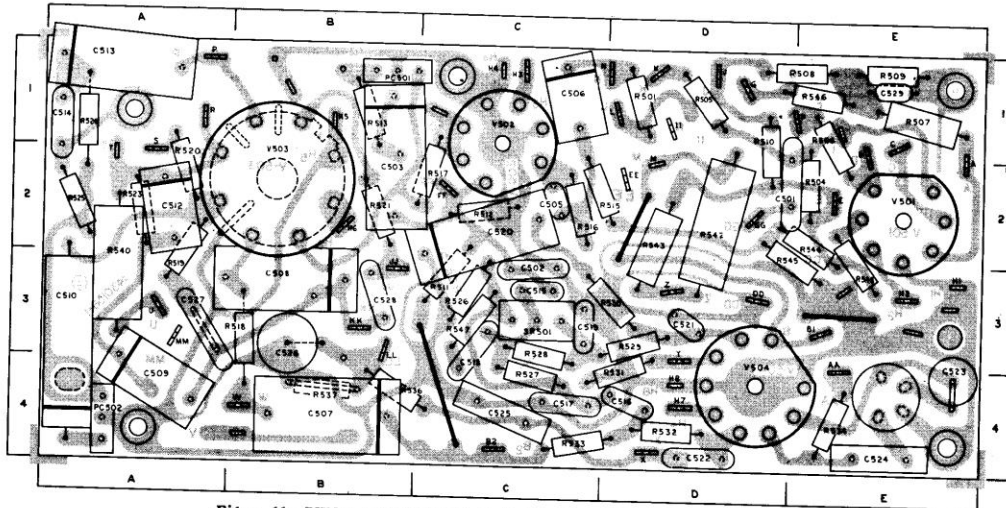


Figure 11—PW500 Sealed Circuit Deflection Assembly Composite Diagram

PW500 COMPONENT LOCATION GUIDE

C-501.....E2	C-515.....C3	C-527.....A3	R-506.....E1	R-518.....B3	R-530.....D3	R-545.....E2
C-502.....C3	C-516.....D4	C-528.....B3	R-507.....E1	R-519.....A3	R-531.....D4	R-546.....E1
C-503.....B2	C-517.....C4	C-529.....E1	R-508.....E1	R-520.....A2	R-532.....D4	R-547.....C3
C-505.....C2	C-518.....C4	C-531.....	R-509.....E1	R-521.....B2	R-533.....D4	R-548.....E3
C-506.....C1	C-519.....C3	PC-501.....B1	R-510.....D1	R-522.....A2	R-534.....E4	
C-507.....B4	C-520.....C2	PC-502.....A4	R-511.....C3	R-523.....A1	R-535.....B4	SR-501.....C3
C-508.....B3	C-521.....D3	R-501.....D1	R-512.....C2	R-524.....A2	R-536.....B4	
C-509.....A4	C-522.....D4	R-504.....E2	R-513.....B1	R-525.....A2	R-537.....A3	
C-510.....A3	C-523.....E4	R-505.....D1	R-515.....C2	R-526.....C3	R-540.....A3	
C-513.....A1	C-524.....E4	R-504.....E2	R-516.....C2	R-527.....C4	R-542.....D2	
C-514.....A1	C-526.....B3	R-505.....D1	R-517.....C2	R-528.....C3	R-543.....D2	
				R-529.....D3	R-544.....E2	