



TELEVISION Service Manual

PUBLISHED BY RADIO COLLEGE OF CANADA, TORONTO

1964 Supplement No. 56

GORDON OLIVER TELEVISION

T.V. RADIO SERVICE

2931 923 CALVERHALL ST.
NORTH VANCOUVER, B.C.

Chassis Page

16D3X Circuit	49, 50
16D3X Alignment	10 to 13
16D3X Layouts	10, 11
16D3X Coil identification	12
5A9X Remote control amplifier	9, 13
17Y1X Circuit	46, 47, 48
17Y1X Alignment	3 to 8
17Y1X Layouts	2, 3, 6
17Y1X Coil identification	2
17Z1X See 17Y1X.	

Model

PS93D11X, 13X, 19X See chassis 16D3X.
TPF582C, W See chassis 16D3X.
VC366 See chassis 17Y1X.
164C1, 2, 31, 32 See chassis 17Y1X.

CANADIAN GENERAL ELECTRIC

Chassis Page

M598 Circuit	51, 52
M598 Tuner circuits	16 to 20
M598 Alignment	14, 15
M598 Coil identification	15

Model

30T41 See chassis M598.
30T42 (Sandhurst) See chassis M598.
32T41, U (Trent) See chassis M598.
33T41 (Snowden) See chassis M598.
33T42 (Brewster) See chassis M598.
33T43, U (Sandford) See chassis M598.
33T44 (Glendale) See chassis M598.
33T45 (Claremore) See chassis M598.
30T41 (Jasper) See chassis M598.
36T43 (Saranac) See chassis M598.
36T44 (Vincent) See chassis M598.
36T45 (Biltmore) See chassis M598.
39T41 See chassis M598.
39T42 See chassis M598.
39T43 See chassis M598.
39T44 See chassis M598.
39T46 See chassis M598.
91T43 See chassis M598.
92T42 (Gilmour) See chassis M598.

DUMONT

Model

DB24T, TA, TB etc. See Fleetwood FA24T.

ELECTROHOME

Model Page

Beaucourt MK II, U, CU Circuit	53, 54
Beaucourt MK II, U, CU Tuner circuits	24
Beaucourt MK II, U, CU Alignment	21, 22, 23
Beaucourt MK II, U, CU Layout	25
Beaucourt MK II, U, CU Coil identification	21
Chancellor TV, U, CU See Beaucourt MK II.	
Serrano, CU See Beaucourt MK II.	
Vermont MK II, U, CU See Beaucourt MK II.	

FLEETWOOD

Model Page

M21T (Revised) Circuit	57, 58
(Early version appeared in Supp. #45).	
M21T Tuner circuits	31, 32
M21T Alignment	30, 33
M21T Coil identification	33
FA24T, TA, TB etc. Circuit	59, 60
FA24T Tuner circuits	36
FA24T Alignment	34
FA24T Layout, Coil identification	35

MARCONI

Chassis Page

TV-586 Circuit	38, 39
TV-586 Tuner circuits	43, 44
TV-586 Alignment	37, 40 to 42
TV-586 Layout, Coil identification	41
TV-587 See TV-586.	
B522-130 Tuner	45

Model

191K23 See chassis TV-586.
192K23 See chassis TV-586.
193K23 See chassis TV-586.
194W23 See chassis TV-587.
195W23 See chassis TV-587.
197W23 See chassis TV-587.

PHILCO

Chassis Page

13J41 Circuit	65, 66
13J41 Layout	67, 68
13J41 Waveforms, coil identification	85
13J41 Alignment	86 to 88
13J42 See 13J41.	
13J43 See 13J41.	
13J45 See 13J41.	
13N40 Circuit	61, 62
13N40 Alignment	86 to 88
13N40 Layout	63, 64
13N40 Waveforms	83
13N40 Resistances, coil identification	84
13N51 Circuit	69, 70
13N51 Alignment	90, 91
13N51 Layout	71, 72
13N51 Waveforms, coil identification	89
13N53 See 13N51.	
13N45, A See 13J41.	

Model

3740BE See chassis 13J45.
3748 See chassis 13J45.
3804BE See chassis 13J41.
3808BK, WH See chassis 13J43.
3810WA See chassis 13J43.
4875 See chassis 13N40.
4879 See chassis 13N40.
4880 See chassis 13N40.
4882 See chassis 13N45A.
4884W, SW See chassis 13N51.
4888 See chassis 13N53.
4890 See chassis 13N45.

PHILIPS

Chassis Page

X-1 Circuit	73, 74
X-1 Tuner circuits	98, 100
X-1 Alignment	94 to 97
X-1 Layouts	92, 93, 101
X-1 Coil identification	101

Model

19TC013U See chassis X-1.
19TC023U See chassis X-1.
19TC033U See chassis X-1.
19TC613U See chassis X-1.
19TC633U See chassis X-1.
23CC053U See chassis X-1.
23CC153U See chassis X-1.
23CC163U See chassis X-1.
23CC173U See chassis X-1.
23CC233A See chassis X-1.
23CC643U See chassis X-1.
23CC653U See chassis X-1.
23CC693A See chassis X-1.
23TC043U See chassis X-1.
23TC623U See chassis X-1.

RCA-VICTOR

Model

23TC738 (Bosworth II) See chassis CT2305C in Supp. #54.
23TC802A (Bronte II) See chassis CT2304D in Supp. #55.

ROGERS-MAJESTIC

Chassis

X-1 See Philips X-1.

Model

See Philips Listing.

SIMPSON-SEARS

Chassis Page

C817, 19131 Circuit	75, 76
C817, 19131 Tuner circuits	104
C817, 19131 Alignment	102
C817, 19131 Layout, coil identification	103
C817, 19132 See C817, 19131.	
C817, 19132.5 See C817, 19131.	

Model

15430 See chassis C817, 19132.
15435 See chassis C817, 19132.5
16420 See chassis C817, 19131.
16430 See chassis C817, 19131.

SPARTON

Chassis Page

23N2 All data	77, 78
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VIKING

Model Page

TPF-561R, RR Circuit	55, 56
TPF-561R, RR Tuner circuits	29
TPF-561R, RR Alignment	26, 27
TPF-561R, RR Layouts	26, 28
TPF-561R, RR Coil identification	28

WESTINGHOUSE

Chassis Page

X-2438-11 Circuit	79, 80
X-2438-11 Tuner circuit	107
X-2438-11 Alignment	106 to 108
X-2438-11 Layout, resistances	105

Model

P3001 See chassis X-2438-11.
P3002 See chassis X-2438-11.

ZENITH

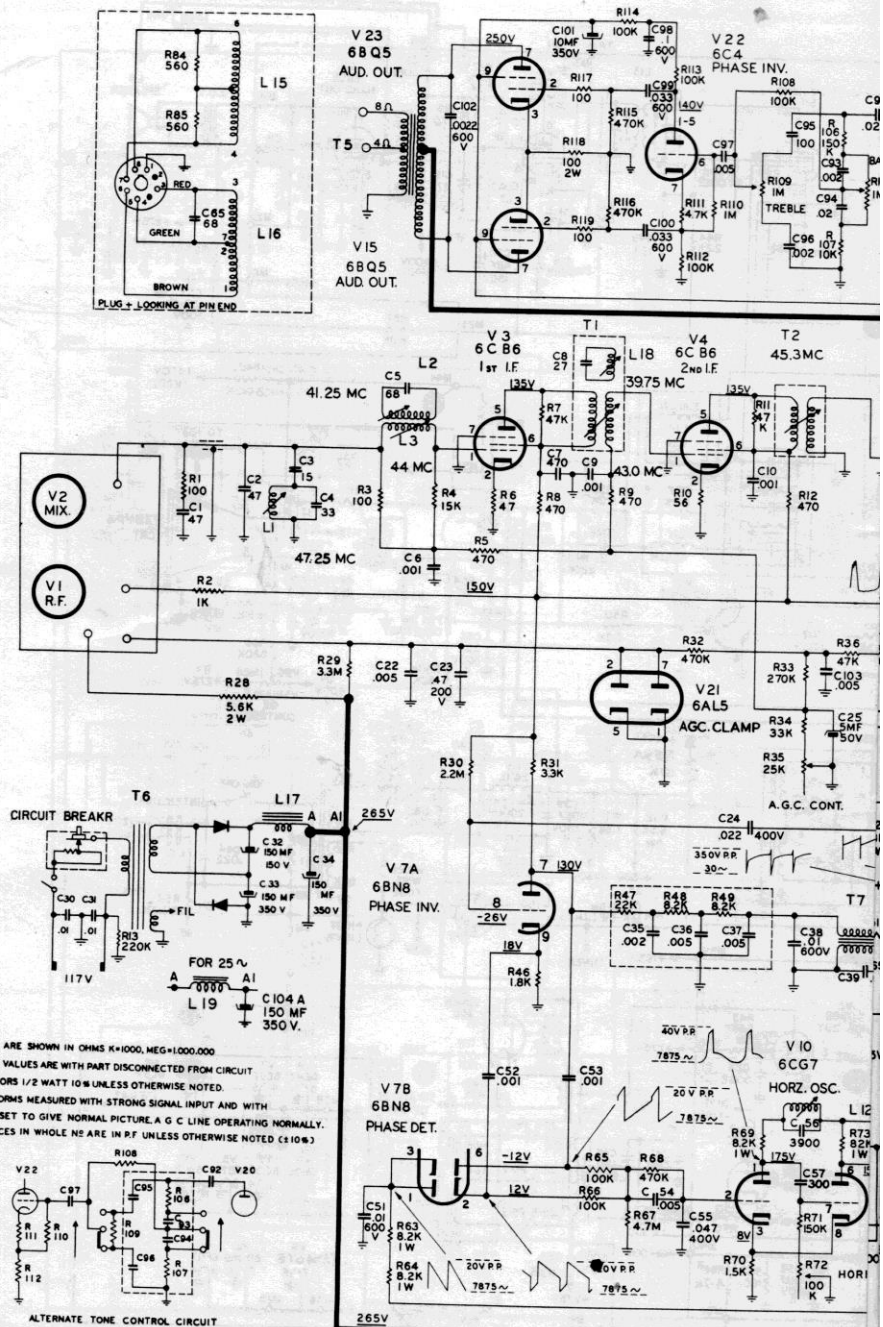
Chassis Page

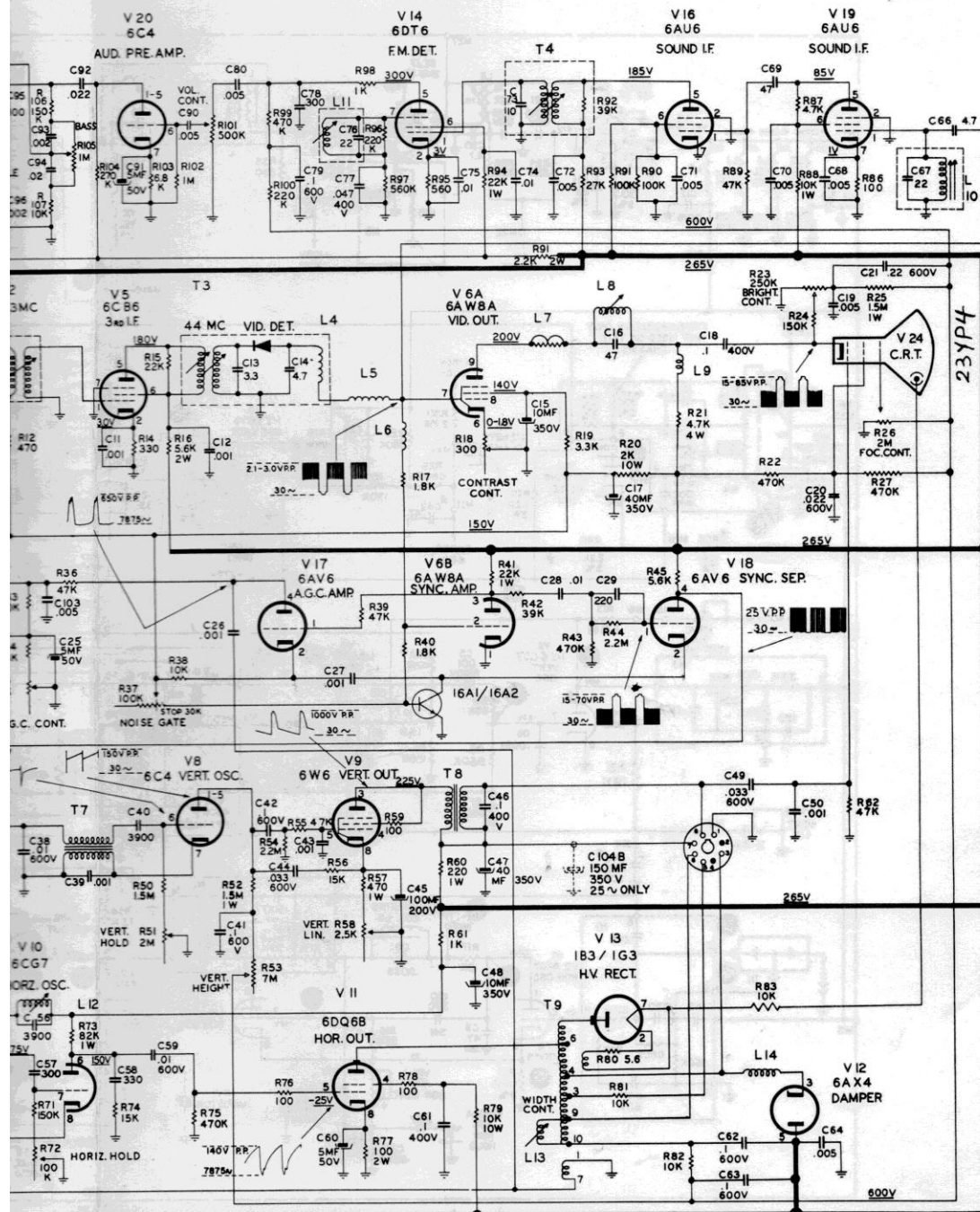
15L33 Circuit	81, 82
15L33 Layouts	109, 110
15L33 Coil identification	110

RCC
TELEVISION
Supplement
No. 56

FLEETWOOD FA24T, A, B

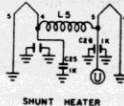
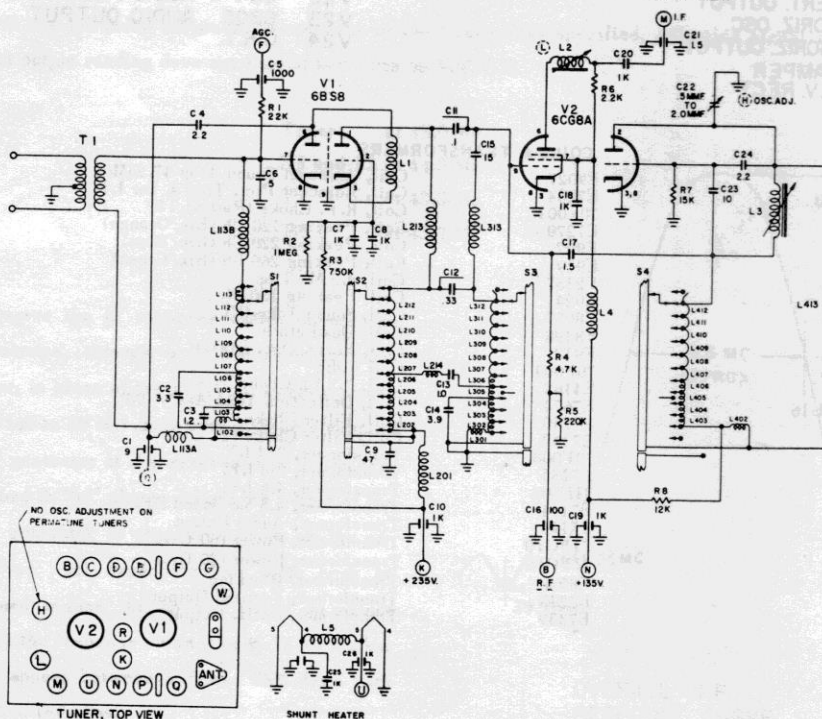
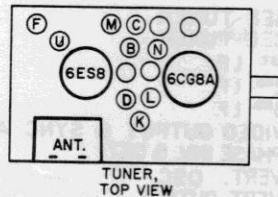
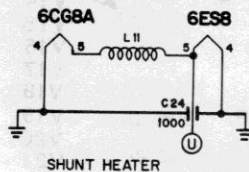
59





ADmiral 1931Y 71
WEB

FLEETWOOD



GENERAL ALIGNMENT NOTES

- Set tuner to highest unused channel and allow both chassis and equipment to warm up for at least ten minutes.
- Connect 3.5 volt bias to A.G.C. line, negative side to C25, positive side to chassis.
- Video alignment requires the use of a shim for signal injection. This can be easily constructed by pasting a thin piece of metal foil (approximately $\frac{1}{2}$ " x 2") on a slightly larger piece of heavy paper. Insert this shim between the tuner mixer tube and its shield in such a manner that the foil side faces the tube.

VIDEO I.F. ALIGNMENT

- Connect signal generator output to metal foil on shim. Ground side to chassis.
- Connect V.T.V.M. (-5 volt range) to video detector junction of R17 and L6, common lead to chassis.
- Tune the following for minimum response, increasing signal generator output and reducing bias if necessary:

L-1 at 47.25 Mc

L-2 at 41.25 Mc

L-18 at 39.75

- Peak the following for maximum response at the frequencies specified, adjusting signal generator so that output reading does not exceed two volts on V.T.V.M.

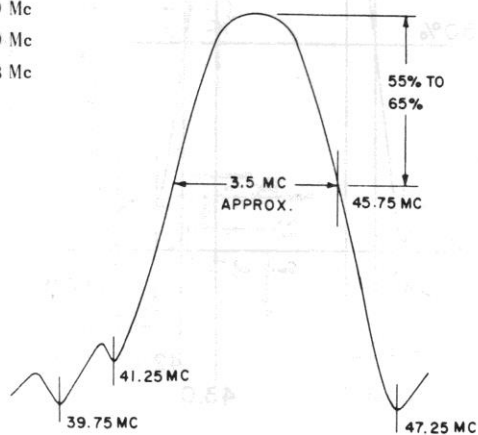
Tuner at 45.0 Mc

L3 and T3 at 44.0 Mc

T1 at 43.0 Mc

T2 at 45.3 Mc

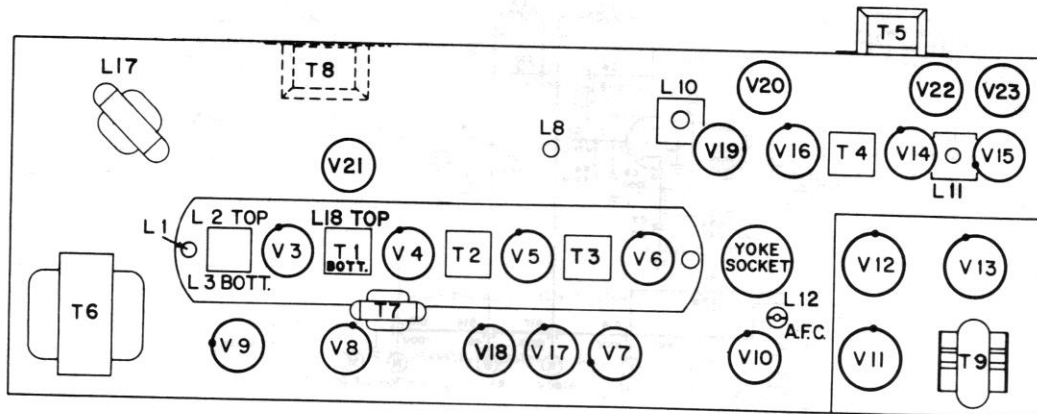
To observe the IF response curve, connect an oscilloscope, through a 10,000 Ohm isolation resistor, in place of the V.T.V.M. Inject a sweep signal (40 to 50 Mc) along with a loosely coupled marker generator at the mixer tube in the manner described in "c" above. Adjust the output of the sweep generator to produce a curve on the oscilloscope not exceeding two volts peak to peak and reduce the marker signal so as not to upset the response curve. The 45.75 Mc marker should appear between 55% and 65% down with respect to the peak.

OVERALL I.F.
RESPONSE CURVE

FLEETWOOD

FA24T, A, B

35



- | | |
|-----|--------------------------------|
| V1 | SEE TUNER |
| V2 | SEE TUNER |
| V3 | 6CB6 1 ST I.F. |
| V4 | 6CB6 2 ND I.F. |
| V5 | 6CB6 3 RD I.F. |
| V6 | 6AW8 VIDEO OUTPUT & SYNC. AMP. |
| V7 | 6BN8 PHASE INV. & DET. |
| V8 | 6C4 VERT. OSC. |
| V9 | 6W6 VERT. OUTPUT |
| V10 | 6CG7 HORIZ. OSC. |
| V11 | 6DQ6B HORIZ. OUTPUT |
| V12 | 6AX4 DAMPER |
| V13 | 1B3 H.V. RECT |

- | | |
|-----|----------------------|
| V14 | 6DT6 F.M. DETECTOR |
| V15 | 6BQ5 AUDIO OUTPUT |
| V16 | 6AU6 SOUND I.F. |
| V17 | 6AV6 A.G.C. AMP. |
| V18 | 6AV6 SYNC SEP. |
| V19 | 6AU6 SOUND IF. |
| V20 | 6C4 AUDIO PRE. AMP. |
| V21 | 6AL5 A.G.C. CLAMP |
| V22 | 6C4 AUDIO PHASE INV. |
| V23 | 6BQ5 AUDIO OUTPUT |
| V24 | C.R.T. |

COILS & TRANSFORMERS

- | | | |
|----------|--------|--------------------------------------|
| L1 | E9027 | Coil, Adjacent Sound Trap 47.25Mc |
| L2, L3 | E7234 | Coil, Adjacent Pict. Trap & 1st I.F. |
| L4 | 70F001 | Coil, R.F. Choke (Part of T3) |
| L5 | E7279 | Coil, Peaking 120 Uh (Blk/Orange) |
| L6 | E922 | Coil, Peaking 220 Uh (Blk/Blue) |
| L7 | E919 | Coil, Peaking 269 Uh (Blk/Green) |
| L8 | E2337 | Coil, 4.5 Mc Trap |
| L9 | E924 | Coil, Peaking 150 Uh |
| L10 | E8937 | Coil, Sound Take-Off |
| L11 | E8498 | Coil, Quadrature |
| L12 | E918 | Coil, Horiz. Osc. (AFC) |
| L13 | 70F004 | Coil Width |
| L14 | E4188 | Coil, 7.5 Uh Choke |
| L15, L16 | E7674 | Coil, Deflection Yoke Ass'y (90°) |
| L17 | E7240 | Coil, Filter Choke |
| L19 | E7349 | Coil, Filter Choke (25 Cy.) |
| T1 | 70F008 | Transformer, 2nd I.F. |
| T2 | E7235 | Transformer, 3rd I.F. |
| T3 | 71F006 | Transformer, 4th I.F. |
| T4 | E7114 | Transformer, 4.5 Mc Sound I.F. |
| T5 | E7115 | Transformer, Audio Output |
| T6 | 71F010 | Transformer, Power (60 Cv.) |
| T7 | 71F016 | Transformer, Power (25 Cy.) |
| T8 | E8938 | Transformer, Blocking |
| T9 | E7213 | Transformer, Vertical Output |
| | E7339 | Transformer, Horiz. Output |