Service data for these models is the same as RA-103, TV1 page 1-58 through 1-80.

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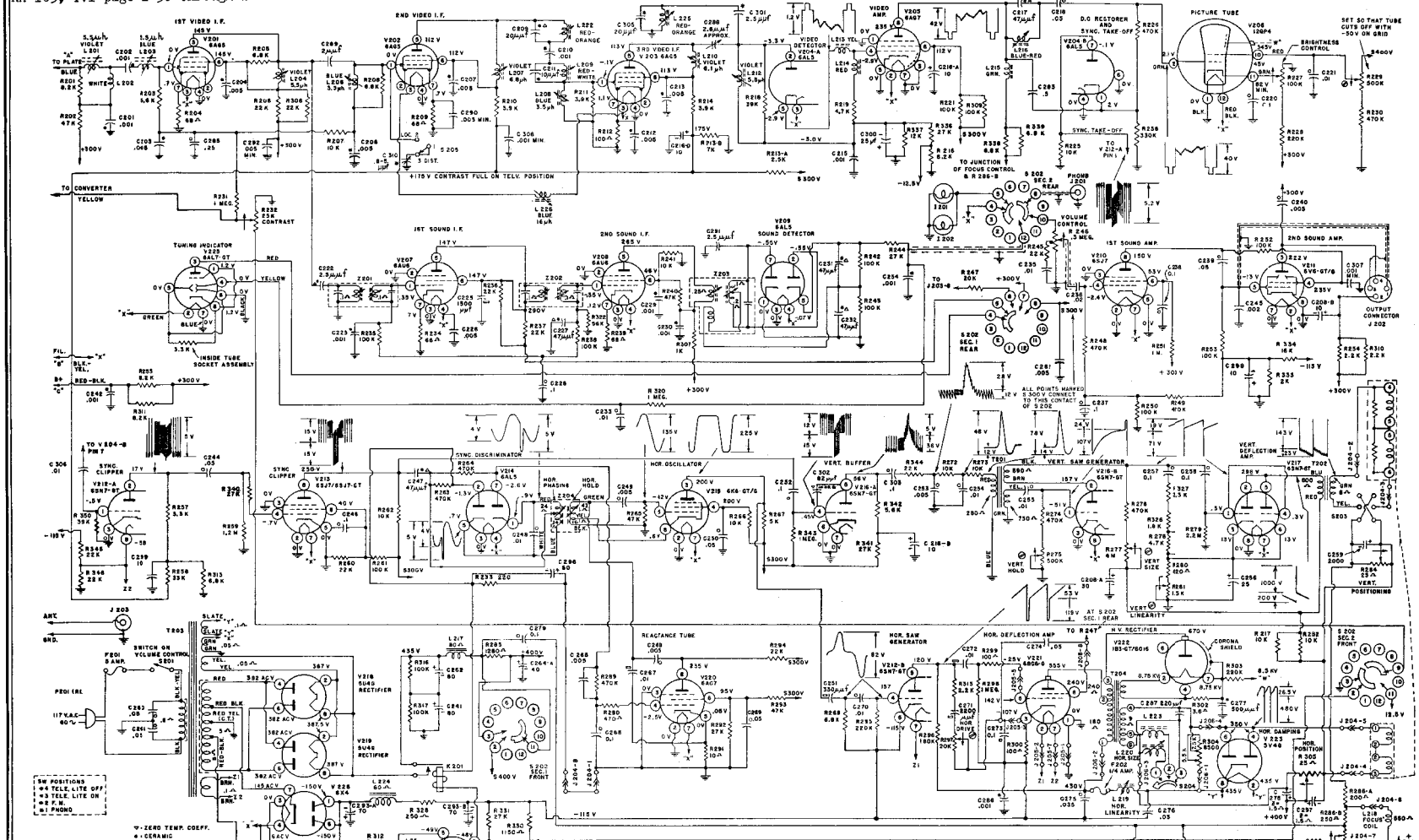
MODELS RA-103D, RA-104A, RA-110A



MODEL RA-103-D TELESET
MAIN CHASSIS

ALSO USED IN RA-104-A AND RA-110-A* TELESETS

RESISTANCE READINGS OF COILS

(All readings in ohms)

All coil readings shown were taken with coils disconnected.

Symbol	Reading
L201	0.6
L202	0.2
L203	0.8
L204	1
L205	1
L206	0.75
L207	1
L208	0.5
L209	0.9
L210	1.4
L211	1.4
L212	0.9
L213	0.8
L214	11.
L215	5.9
L216	1
L219	85
L220	0.4
L222	0.2
L223	0.15
L225	0.2
L226	0.2

For the RA-104A Teleset make the following changes:

Add:

J304	50201832	Cable Assembly
J306	50816831	Cable Asy 4 prong
J307	34001908	Socket Assembly
	34081913	
P205	50018821	Cable Asy 8 prong
P206	50016841	Cable Asy 4 prong
	45061291	Knob Disc

Delete:

L218	2108435 2	Assembly Focus Coil
L221	21042421	Yoke Deflection
V306	25900339	Tube Elec 12QP4
	34001902	Socket Assembly
	34001912	
	36096351	Support Defl Foc Coil
	38000671	Cushion CRT
	21044472	Magnet Ion Trap
	21044852	

* CHANGES IN DIAGRAM FOR RA-110A

(RA-110A USES 19 AP 4 CRT)

1. Delete C245.
2. Change R304 from 8.5K tapped to 50K fixed.
3. Delete terminal 6 on T204 and connect lead from S204-3 to T204-8.
4. Delete C287.
5. Delete L223.
6. Change R302 from 3.6 ohms to 7.5 ohms.

NOTES:

1. Switch viewed from knob end. Rotor moves clockwise #1 — #4. Shown in Phono. position.
2. All capacitor values are microfarad unless otherwise specified.
3. All resistors 10% tolerance unless otherwise specified.
4. J204 and J206 are used only on RA-104-A and RA-110A.
5. 6BG6 (V221) tube socket is used as J205 on RA-104-A and RA-110A.
6. Issue #18 Date 8/25/49.

MISCELLANEOUS PARTS LIST

Rumson and Sheffield Teleset RA-103D

(8/24/49)

Part Number	Description
64002111	Bezel
45000046	Window
64001101	Mask CRT
45000021	Knob Control
45000022	Knob Control
35000871	Plate AC Interlock
50002900	Cable Assembly Power
64005581	Clamp Back Panel
45901001	Knob Tuner
45901011	Knob Tuner
67002581	Tube Location Label
37001221	Plate Bezel Mtg
09002780	Connector Male 1 Contact
06003871	Lever Switch (L-D)

HASTINGS TELESET RA-104A

Miscellaneous Parts List

(8/25/49)

Symbol	Part Number	Description
	18002761	Loud Speaker Asy (6")
L601	21042421	Deflection Yoke
L602	21042254	Asy Focus Coil
	26501500	Tube CRT 15DP4
	38000671	Cushion CRT
	45901811	Knob Dial Main
	45000021	Knob Control
	45000022	Knob Control
	64002111	Bezel Dial
	09007410	Connector Male 8 Contact
	09002260	
	60000130	Screw Thumb 8/8
	61001680	Nut Tee 4 28
	35001090	Grommet Rubber 9/16
	35000410	Grommet Rubber 3/8
	32001901	Cushion Strap
	43000115	Cushion Rubber
	35001871	Gasket CRT Support
	35000371	Plate CRT Rear Mtg
	35000221	Mounting Coil/Yoke
	35000151	Stw 15 CRT Rear Mtg
	35003011	Strap CRT Mtg
	35000331	Angle 15 CRT Mtg RH
	35000332	Angle 15 CRT Mtg LH
	38000252	Cushion Front Tube
	35000391	Strap Mtg
	38000681	Cushion Safety Glass
	67002582	Label Tube Location
	42001403	Shield Light
	38000681	Bracket Retainer
	35000871	Plate AC Interlock
	35002021	Bracket AC Interlock
	37000641	Clamp Back Panel
	45003900	Cable Assembly Power
	45000047	Window Safety Glass
	32000671	Back Panel
	35000121	Plate 15 CRT Front Mtg
	35000101	
	38001441	Grommet Rubber
	35000411	Plate Hanger
	09002709	Connector Male 1 Contact
	45001301	Knob Dial Vernier
	37001231	Clamp Bezel
	21044472	Magnet Ion Trap
	21044852	
	45001912	Knob Dial Main
	45001902	Knob Dial Vernier
	45000901	Knob Control
	45000902	Knob Control
	06003671	Lever Switch

WESTWOOD TELESET RA-110A

Miscellaneous Parts List

(8/12/49)

Part Number	Description
18002788	Speaker Asy 10" 4 watt
21042421	Deflection Yoke
21042254	Coil Focus Asy
45000021	Knob Control (mahogany)
45000901	Knob Control (blonde)
45000022	Knob Control (mahogany)
45000902	Knob Control (blonde)
64002111	Bezel Dial
45001181	Window Safety Glass
50003970	Tube CRT 10AP4
35000891	Mtg Coil and Yoke
38000671	Cushion CRT
50003900	Cable Asy Power
09001410	Connector Male, 8 contact
09002260	
09002700	Connector Male 1 contact
09007491	Connector Pin
39011012	Spring Cont Cab
39011011	
45001901	Knob Dial Vernier (mahogany)
35002721	Plate 10 CRT
38004203	
35000551	Plate Clamp
45001902	Knob Dial Vernier (blonde)
38000560	Clip Tube contact
37000641	Clamp Back Panel
37001981	Clamp CRT
45001911	Knob Dial Main (mahogany)
45001912	Knob Dial Main (blonde)
64001291	Mask CRT 19
44005311	
62000601	Washer Felt
21044472	Magnet Ion Trap
21044852	
32000741	Back Panel
06003671	Lever Switch
37001281	Clamp Bezel

For the RA-110A Teleset make the following changes:

Add:		
J304	50201832	Cable Asy 8 pin
L226	21005901	Inductor Hor Size
P206	50016842	Cable Asy 4 prong
R302	02100860	Res F W 7.5 ohm 10% ½W
R304	02100150	Res 2 W 50K 5% 10W
T204	20004251	Trans Hor Output
	38000650	Chip Tube Contact
	35000581	Bracket Coil Mtg
Delete:		
C287	02014748	Cap 220 mmf 20% 1500V
L218	21042252	Asy Focus Coil
L220	21042741	Inductor Hor Size
L221	21042242	Yoke Deflection
L223	21042761	Inductor Fixed Hor Size
R304	02015861	Res F W 8.5K Tap 25W
T204	20004261	Trans Hor Output
V306	25900350	Tube Elec 12QP4
	37000651	Clamp CRT
	38001421	Cushion Tube Holder
	38001481	Cushion Tube Holder
	35000500	Bracket Deflection Yoke
	60130002	Cable Asy
	34001902	Socket Asy
	35000351	Support Deflection Focus Coil
	35001251	Support CRT lower
	21044472	Magnet Ion Trap

Sheffield Teleset RA-103D

18002791	Speaker Assembly (10")
32000504	Back Panel Assembly

Rumson Teleset RA-103D

18002761	Speaker Assembly (6")
32000506	Back Panel Assembly

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MODELS RA-103D, RA-104A, RA-110A

RECEIVER PARTS LIST RA-103D AND RA-104A

(8/25/49)

Unless otherwise stated, the tolerance shown is plus and minus of the indicated value. Where two or more part numbers are shown, the second and third numbers, if any, are alternate parts. This applies to all parts lists on this sheet.

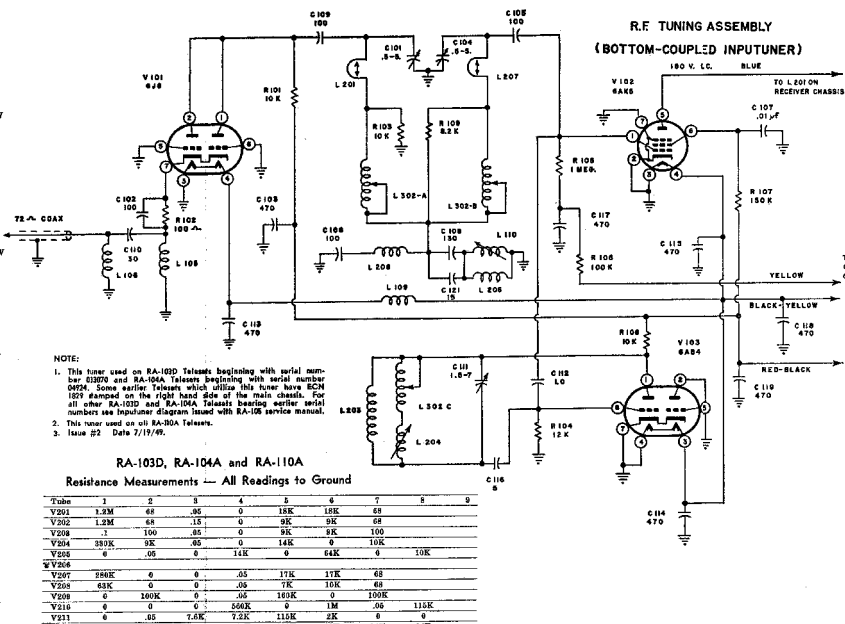
Abbreviations used: C Cap Capacitor; Composition; E Elec Electronic; Electrolytic; F Pa Paper; Fixed; Res W Wire Wound; Resistor

Symbol No.	Part No.	Description
C201	68013940	Cap F Ce 1000 mmf 350 V
C202	Same as C201	
C203	68015510	Cap F Ce 5000 mmf 450 V
C204	Same as C203	
C205	Same as C203	
C206	Same as C203	
C207	Same as C203	
C208	68014110	Cap E 30/10 mf 450 V
C209	68014010	Cap F Ce 20 mmf 500 V
	68015790	
C210	Same as C201	
C211	68013088	Cap F Ce 10 mmf 500 V
C212	Same as C208	
C213	Same as C208	
C214	Same as C201	
C216	68016900	Cap E 10/10/10 mf
C217	68015780	Cap F Ce 47 mmf 500 V
	68014200	
	68015760	
C218	68014020	Cap Pa .05 mf 25% 400 V
C220	68013910	Cap Pa .1 mf 25% 200 V
C221	68012660	Cap Pa .01 mf 25% 600 V
C222	68014570	Cap F Ce 2.5 mmf 500 V
	68014280	
	68015720	
C223	Same as C201	
C225	68013760	Cap M 1660 mmf 10% 600 V
C226	Same as C208	
C227	68014200	Cap F Ce 47 mmf 500 V
	68015760	
C228	Same as C220	
C229	Same as C201	
C230	Same as C201	
C231	Same as C227	
C232	Same as C227	
C233	68014450	Cap Pa .01 mf 25% 400 V
C234	Same as C201	
C235	Same as C233	
C236	68001460	Cap Pa .02 mf 25% 400 V
C237	Same as C220	
C238	68014940	Cap Pa .1 mf 25% 400 V
C239	Same as C218	
C240	68001570	Cap Pa .005 mf 25% 600 V
C241	68014080	Cap E 80 mf 350 V
	68016620	
C242	Same as C201	
C244	68000960	Cap Pa .01 mf 25% 600 V
C245	68014430	Cap Pa .002 mf 10% 600 V
C246	Same as C220	
C247	68013860	Cap F Ce 47 mmf 5% 350 V
	68014180	
C248	68003410	Cap Pa .01 mf 10% 400 V
C249	Same as C240	
C250	Same as C218	
C251	68002180	Cap M 330 mmf 10% 500 V
C252	Same as C220	
C253	Same as C240	
C254	Same as C238	
C255	Same as C248	
C256	68013890	Cap E 25 mf 50 V
C257	68003400	Cap Pa .1 mf 10% 400 V
C258	Same as C238	
C259	03012250	Cap E 2000 mf 6 V
	68014370	
C260	68016500	Cap Pa .05 mf 20% 600 V
	68014190	
C261	Same as C260	
C262	Same as C241	
C264	68016050	Cap E 40/40 mf 475/400 V
C265	Same as C249	
C266	Same as C250	
C267	03033860	Cap M 10000 mmf 10% 500 V
C268	Same as C240	
C269	Same as C244	
C270	Same as C238	
C271	03029960	Cap M 2200 mmf 10% 500 V
C272	Same as C221	
C273	Same as C223	
C274	Same as C218	
C276	68014040	Cap Pa .035 mf 10% 1000 V
C276	68014070	Cap Pa .05 mf 10% 1000 V
C277	68014410	Cap F Ce 500 mmf 10 KV
C278	68016851	Cap E 1.6 imp 150 CPS.
C279	Same as C238	
C281	Same as C238	
C282	68014299	Cap Pa .5 mf 25% 400 V
C284	68016851	Cap E 1.6 imp 150 CPS.
C285	03000420	Cap F Ce 20 mmf 2000 V
C286	Same as C291	
C287	03014740	Cap 220 mmf 20% 1500 V
C288	68016851	Capacitor coupling
C289	68018851	Capacitor coupling
C290	Same as C288	
C291	68016411	Cap coup 2.5 mmf 10%
C292	Same as C288	
C293	03014049	Cap E 70/70 175 V
C294	Same as C288	
C295	Same as C220	
C296	03000020	Cap E 50 mf 25 V
C297	Same as C278	
C298	03016730	Cap E 10 mf 25 V
C299	03014160	Cap E 10 mf 50 V
C300	03013510	Cap E 25 mf 25 V
C301	Same as C222	
C302	03017420	Cap Ce 82 mmf NPO 500 V
	03020420	
C303	Same as C220	
C305	68013868	Cap F Ce 20 mmf 5% 500 V
	03016220	
C306	Same as C233	
C307	Same as C201	
C308	Same as C201	
C310	03017710	Cap V Ce .8/6 mmf
F201	11000110	Fuse Cart ½ amp 250 V
F202	11001100	Fuse Cart ¼ amp
I201	12000840	Lamp Inc .25 amp 6.3 V
J202	Same as I201	
J201	03002760	Connector Fem 1 contact
J202	00506482	Connector Asy 4 contact
	00615561	
J203	Same as J201	
K201	03002410	Relay armature SPST
	65002260	
	03003860	
L201	21004187	Coil 21.9 mc
L202	21004421	Coil Video Coupling
L203	21004186	Coil 21.9 mc
L204	Same as L201	
L206	Same as L203	
L207	Same as L201	
L208	Same as L203	
L209	21004501	Coil Video IF Trap
L210	Same as L201	
L212	Same as L201	
L213	21004467	Coil Video Peaking
L214	21004461	Coil Video Peaking
L215	21004464	Coil Video Peaking
L216	21004421	Coil 4.5 mc trap
L217	21004882	Choke Filter
L218	21004283	Assembly Focus Coil
L219	21004771	Inductor variable
L220	21004741	Inductor hor size
L221	21004242	Yoke Deflection
L222	21004802	Coil Video IF Trap
L223	21004761	Inductor fix hor size

Symbol No.	Part Number	Description
L224	21004722	Choke filter
L225	Same as L222	
L226	21004961	Coil 21.9 mc choke
R201	62030790	Res F C 3.2K 5% ½ W
	62067090	
	62040790	
R202	62031970	Res F C 47K 10% ½ W
	62031970	
	62041970	
R203	62030660	Res F C 5.6K 5% ½ W
	62030660	
	62040660	
R204	62031630	Res F C 68 ohm 10% ½ W
	62031630	
R205	62030680	Res F C 6.8K 5% ½ W
	62030680	
	62040680	
R206	62037930	Res F C 22K 10% 2 W
R207	62031830	Res F C 10K 10% ½ W
	62031890	
	62041890	
R208	Same as R205	
R209	Same as R204	
R210	62037840	Res F C 3.9K 10% 2 W
R211	62030820	Res F C 3.3K 5% ½ W
	62060820	
	62040820	
R212	62031650	Res F C 160 ohm 10% ½ W
	62061650	
R213	62018990	Res F W 2600/7000
R214	Same as R210	
R216	Same as R201	
R217	62037890	Res F C 10K 10% 2 W
R218	62030860	Res F C 39K 5% ½ W
	62060860	
	62040860	
R219	62030640	Res F C 4.7K 5% ½ W
	62030640	
	62040640	
R220	62038910	Res F C 100K 10% 2 W
R221	62030860	Res F C 39K 5% ½ W
R222	62032090	
	62042090	
R223	62031900	Res F C 100K 10% ½ W
R224	62061900	
	62042090	
R225	62032050	Res F C 220 ohm 5% ½ W
	62062050	
	62042050	
R226	61060690	Res W C 500K 20% ½ W
	61060710	
R230	Same as R226	
R231	62032690	Res F C 1 meg 20% ½ W
	62062690	
	62042690	
R232	61052502	Res V C 25K SPDT
R233	62030290	Res F C 220 ohm 5% ½ W
	62050529	
R234	Same as R204	
R235	61060690	Res F C 100K 10% ½ W
	62052010	
R236	62034010	Res F C 22K 10% 1 W
	62034930	
	62044930	
R237	Same as R236	
R238	Same as R235	
R239	Same as R204	
R240	62037970	Res F C 47K 10% 2 W
R241	Same as R207	
R242	Same as R235	
R243	Same as R235	
R244	62031940	Res F C 27K 10% ½ W
	62031940	
	62041940	
R245	62031930	Res F C 22K 10% ½ W
	62051940	
	62041930	
R246	61060910	Res V C 500K SPST
R247	61010930	Res F W 20K 5% 10 W
R248	Same as R226	
R249	Same as R232	
R250	Same as R235	
R251	62032180	Res F C 1 meg 10% ½ W
	62052180	
	62042180	
R252	Same as R235	
R253	Same as R235	
R254	62037810	Res F C 2.2K 10% 2 W
R255	62037880	Res F C 8.2K 10% 2 W
R256	62032870	Res F C 390K 10% ½ W
	62032870	
	62042870	
R257	62031830	Res F C 3.3K 10% ½ W
	62031830	
	62041830	
R258	62037950	Res F C 33K 10% 2 W
R259	62032140	Res F C 1.2 meg 10% ½ W
	62062140	
	62042140	
R260	Same as R245	
R261	62035010	Res F C 100K 10% 1 W
	62056010	
	62045010	
R262	Same as R237	
R263	Same as R226	
R264	Same as R226	
R265	Same as R203	
R266	62034890	Res F C 10K 10% 1 W
	62054890	
	62044890	
R267	62197060	Res F W 5K 5% 10 W
R268	62061650	Res F C 6.8K 10% ½ W
	62051870	
	62041870	
R272	Same as R207	
R275	Same as R207	
R274	Same as R226	
R276	61057500	Res V C 500K 20% ¼ W
	61052140	
	61011740	
R276	Same as R226	
R277	61057600	Res V C 4 meg 20% ¼ W
	61011760	
R278	Same as R219	
R279	62032170	Res F C 2.2 meg 10% ½ W
	62052170	
	62042170	
R280	62034760	Res F C 820 ohm 10% 1 W
	62054760	
	62044760	
R281	61012460	Res V C 1.5K 20% 2 W
	61012460	
R282	Same as R217	
R284	61062410	Res V W 255 ohm 10% 2 W
R285	62037610	Res F W 1.28K 10% 25 W
R286	62017600	Res F W 280/250
R288	61006680	Res V W 1K 10% 25 W
R289	Same as R226	

Symbol No.	Part No.	Description
R290	62031730	Res F C 470 ohm 10% ½ W
	62061730	
	62041730	
R291	62031590	Res F C 10 ohm 10% ½ W
	62061630	
R292	62034940	Res F C 27K 10% 1 W
	62054940	
	62044940	
R240	Same as R226	
R294	Same as R206	
R295	Same as R228	
R296	62033040	Res F C 180K 10% 2 W
R297	61024530	Res V C 20K 20% 2 W
R298	Same as R261	
R299	Same as R212	
R300	62199220	Res F W 100 ohm 5% 5 W
	62119210	
R302	62199190	Res F W 3.6 ohm 10% ½ W
R303	62035050	Res F C 220K 10% 1 W
	62055050	
	62045050	
R304	62018381	Res F W 9.5K Tap 25 W
R305	61007800	Res V W 25 ohm 10% 4 W
R306	Same as R205	
R307	62031770	Res F C 1K 10% ½ W
	62031770	
	62041770	
R309	Same as R221	
R310	Same as R254	
R311	Same as R255	
R312	62102650	Res F W 6.1 ohm 10% 1 W
R313	Same as R268	
R315	62031850	Res F C 2.2K 10% ½ W
	62041850	
	62061850	
R316	Same as R261	
R317	Same as R261	
R320	Same as R251	
R322	62031580	Res F C 56K 10% ½ W
	62061580	
	62041580	
R326	62031800	Res F C 1.8K 10% ½ W
	62061800	
	62041800	
R327	Same as R237	
R328	62107740	Res F W 250 ohm 5% 5 W
	62107740	
R329	62035740	Res F C 12K 5% 2 W
R330	63116040	Res F W 1.16K 20 W
R331	Same as R244	
R332	62205650	Res F C 2K 5% ½ W
	62040650	
	62056650	
R334	62032070	Res F C 16K 5% ½ W
	62040770	
	62060770	
R244	Same as R244	
R337	62031900	Res F C 12K 10% ½ W
	62061900	
	62041900	
R338	62037870	Res F C 6.8K 10% 2 W
R339	Same as R338	
R340	Same as R244	
R341	62037940	Res F C 27K 10% 2 W
R342	62031890	Res F C 5.6K 10% ½ W
	62041890	
	62051890	
R343	Same as R251	
R344	Same as R245	
R345	Same as R245	
R346	Same as R245	
R347	62038030	Res F C 180K 10% 2 W
R350	62031960	Res F C 39K 10% ½ W
	62051960	
	62041960	
S202	06035221	Switch Selector
S203	65000122	Switch toggle DPDT
	06063060	
S204	05003481	Switch SPST
S205	61052020	Res V C 25K SPDT
T201	20004142	Transformer VHF Osc
T202	20003244	Transformer Ver Output
T203	20004253	Transformer Power
T204	20004281	Transformer Hor Output
V201	20004261	Tube Elec 6AG6
	25000010	
V202	Same as V201	
V203	Same as V201	
V204	26050028	Tube Elec 6AL5
V205	25900039	Tube Elec 6AG7
V206	25906230	Tube Elec 12QP4
V207	25900050	Tube Elec 6AU6
V208	Same as V207	
V209	Same as V204	
V210	25902130	Tube Elec 6SJ7
V211	25900096	Tube Elec 6V6GT/G
V212	25900110	Tube Elec 6SN7 GT
V213	25900280	Tube Elec 6SJ7 GT
	25000070	
V214	Same as V204	
V215	25900100	Tube Elec 6X6 6T/G
V216	Same as V212	
V217	Same as V212	
V218	25900060	Tube Elec 6U4G
V219	Same as V218	
V220	25900120	Tube Elec 6AC7
V221	25000140	Tube Elec 6BD6G
V222	25000150	Tube Elec 12BG7/8016
V223	25900160	Tube Elec 5Y4G
V224	Same as V204	
V225	25900250	Tube Elec 6AL7GT
V226	25900170	Tube Elec 6X4
V227	Same as V226	
	20004101	Transformer IF
	20004111	
Z201	Same as Z201	
Z202	20003201	Transformer
Z203	20004291	
	20004291	Transformer Osc
	20004281	Shield CRT
	42003161	Mounting Capacitor
	25006490	Bracket Antenna
	25006221	Dial Light Ass
	12002792	Shield Light
	45001591	Socket Assembly
	34001292	Socket Assembly
	34001982	
	34001912	
	25006357	Support Defl Foc Coil
	25006241	Bracket Magnet
	25006230	Magnet
	25006671	Cushion CRT
	25006491	Bracket Tube Mtg
	25001782	Inputuner
	21004475	Magnet Ion Trap
	21004852	
	11001100	Fuse Cart ¼ Amp
	12002781	Bracket Dial Light
	25002121	Bracket Tube Mtg

R.F. TUNING ASSEMBLY (BOTTOM-COUPLED INPUTUNER)



NOTE:

1. This tuner used on RA-103D Telesets beginning with serial number 813270 and RA-104A Telesets beginning with serial number 04724. Some earlier Telesets which utilize this tuner have ECN 1829 stamped on the right hand side of the main chassis. For all other RA-103D and RA-104A Telesets bearing earlier serial numbers see Inputuner diagram issued with RA-105 service manual.
2. This tuner used on all RA-110A Telesets.
3. Issue #2 Date 7/19/49.

RA-103D, RA-104A and RA-110A

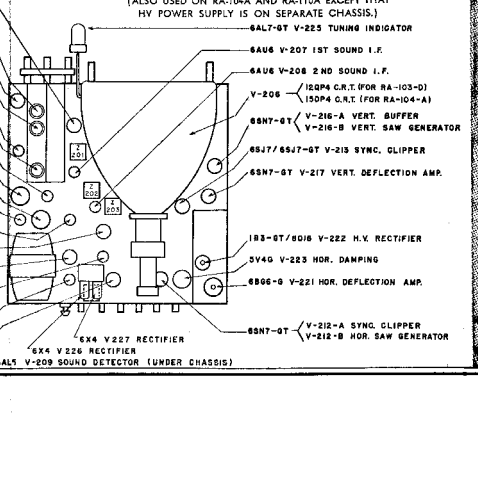
Resistance Measurements — All Readings to Ground

Tube	1	2	3	4	5	6	7	8	9
V201	1.2M	68	.95	0	18K	18K	68		
V202	1.2M	68	.15	0	9K	9K	68		
V208	1	100	.95	0	9K	9K	100		
V204	330K	9K	.05	0	14K	0	10K		
V205	0	.05	0	14K	0	64K	0	10K	
V206									
V207	280K	0	0	.05	17K	17K	68		
V208	63K	0	0	.05	7K	10K	68		
V209	0	160K	0	.05	165K	0	100K		
V210	0	0	0	560K	0	1M	.05	115K	
V211	0	.05	7.6K	7.2K	115K	2K	0	0	
V212	39K	10K	0	250K	190K	10K	14K	14K	
V213	0	0	0	1.2M	0	20K	.05	16K	
V214	500K	240	0	.05	500K	Ne	1M		
V216	0	0	11K	16K	41K	6K	.05	16	
V216	300K	1.6M	0	1M	40K	0	0	.05	
V217	2.2M	12K	1.8K	2.2M	12K	1.8K	.05	0	
V218	Ne	Inf.	10K	12	5	13	9K	Inf.	
V219	0	Inf.	5	12	6K	13	6.5K	Inf.	
V220	0	0	0	1.5M	10	18K	.05	29K	
V221	0	14K	16K	1M	1M	6.1K	14K	28K	Cap 14K
V222	Ne	Inf.	Inf.	Inf.	Ne	Ne	Inf.	Ne	Cap 14K
V223	*15K	14K	**150K	6.5K	6.5K	6.5K	6.5K	14K	
V224	33K	5.7K	5	.05	23K	Ne	5.7K		
V225	3.3K	.05	6.1K	1.1M	0	0	0	3.3K	
V226	10K	10K	0	.05	Ne	10K	5		
V227	10K	Ne	0	.05	16K	10K	5		

Instrument used — RCA Model 195-A Voltohmyst (for voltage and resistance)
All readings in ohms. Line voltage: 117 volts A.C. for voltage readings.
K = thousand M = million
* Varies between 15K and 70K depending on setting of Brightness Control (R227).
** Varies between 7K and 240K depending on setting of CRT Sensitivity Control (R229).

TUBE LOCATION RA-103D

(ALSO USED ON RA-104A AND RA-110A EXCEPT THAT HV POWER SUPPLY IS ON SEPARATE CHASSIS.)

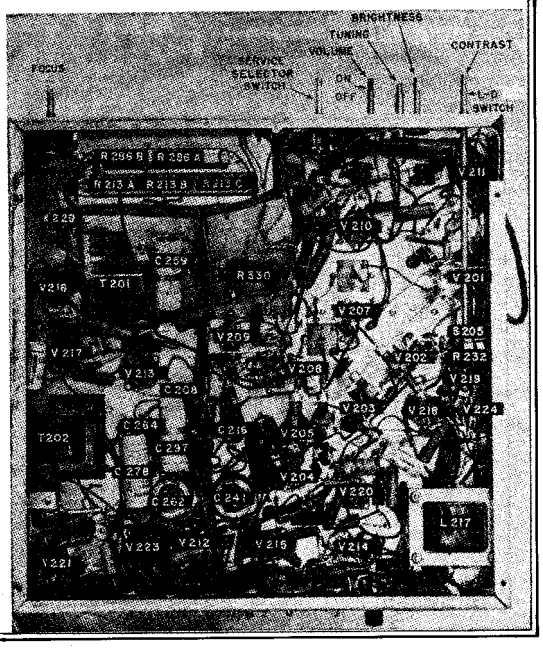


*APPLIES TO BOTTOM COUPLED INPUTUNER

RF TUNING ASSEMBLY PARTS LIST

(7/20/49) (8/24/49)

Symbol No.	Part No.	Description
		Inputuner and Dial Assembly
		Dial Mechanism
		Dial
		Pointer
		RF Assembly
C101	03016550	Cap V P .5/5 mmf 500 V
C102	03016790	Cap F Ce 100 mmf 500 V
C103	03014490	Cap F Ce 470 min 600 V
	03014690	
C104	Same as C101	
C105	Same as C102	
C106	Same as C102	
C107	03015770	Cap F Ce .01 min 600 V
	03016760	
C108	03016660	Cap F M 180 mmf 5%
C109	Same as C102	
C110	03013070	Cap F Ce 30 mmf 5%
C111	03015870	Cap F Ce 1.8/7 N3000
C112	03015150	Cap F Ce 1 mmf 500 V
C113	03016470	Cap F Ce 470 min 350 V
	03014590	
C114	Same as C113	
C115	Same as C113	
C116	03015650	Cap F Ce 5 mmf N150
C117	Same as C113	
C118	Same as C113	
C119	Same as C103	
C121	03014850	Cap F Ce 15 mmf 5%
L185	21004571	Coil antenna
L186	Same as L105	
L189	Same as L105	
L110	21004601	Inductor bandwidth
L201	21004581	Inductor end place
L203	21004041	Coil shunt
L204	21004491	Inductor end osc
L206	21004951	Inductor ground strap
L207	21004921	Inductor end grid
L208	21004941	Coil bandpass coupling
L302	21004051	Inductuner 7.5 turn
R101	62037950	Res F C 33K 10% 2 W
R102	62033240	Res F 100 ¼ W 5%
R103	62031860	Res F 10K ½ W 10%
R104	62041890	
	62031900	Res F 12K ½ W 10%
	62041900	
R105	62032130	Res F 1 meg ½ W 10%
	62042130	
R106	62032010	Res F 100K ½ W 10%
	62042010	
R107	62032030	Res F 150K ½ W 10%
	62042030	
R108	Same as R191	
R109	62031880	Res F 8.2K ½ W 10%
	62041880	
V101	25002190	Tube 6J6
V102	25002180	Tube 6AK5
V103	25001760	Tube 6AB4
X101	34002216	Socket Black Phenolic
X102	Same as X101	
X103	34002068	Socket Ceramic
	85003021	Strap Connector
	41003300	Insulator Standoff
	42001240	Shield Tube
	42001256	Shield Tube



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