

SECTION II—TELEVISION (BY MODELS) GROUP 1A

MODEL 49-1075, CODE 121 (MAIN CHASSIS)

RUN NO.	DESCRIPTION OF CHANGE	NEW OR ADDED PART NO.	OLD OR REMOVED PART NO.	REASON FOR CHANGE
3	A 10-mf. condenser added between top of R330 and ground. Physical wiring is as follows: The common tie point (lug) on the terminal strip for R327 and R328 was moved to the next lug at the left. The wire connecting these two lugs was removed. The 10-mf. condenser was then added, between the first lug (from which R327 and R328 were removed) and ground; the ground connection was made at the lug located on the terminal strip immediately beside the 7Z4 rectifier tube. A lead was then connected between the condenser and the top of R330.	30-2417-6		To provide tuner B+ decoupling.

MODEL 49-1075, CODE 122 (MAIN CHASSIS)

2	R329 changed from 4700 ohms to 15,000 ohms.	66-3154340	66-2474340	To reduce interaction between circuits.
2	Power transformer changed.	32-8376	32-8457	To facilitate material procurement.
3	10-mf. condenser added between top of R330 and ground.	30-2417-6		To reduce hum modulation.
4	R543, 10,000-ohm resistor, added in series with movable arm of R502.	66-3103340		To prevent overloading of HEIGHT control.
5	R532 changed from 33,000 ohms to 36,000 ohms (obtained by placing a 56,000-ohm resistor and a 100,000-ohm resistor in parallel).	66-3563340 66-4103340	66-3334340	To improve horizontal control range.

MODEL 49-1076, CODE 122 (MAIN CHASSIS)

6	56-ohm resistor added in cathode circuit of 7Z4.	66-0565340		To reduce surge currents.
6	During run 6, 1800-ohm resistor added in series with C513 and ground.	66-2183340		To improve picture centering.
7	R532 changed to 39,000 ohms.	66-3398340	66-3363340 66-4103340	To improve picture centering.
8	1800-ohm resistor in series with C513 and ground removed. Loose end of C513 grounded.		66-2183340	To increase picture width.

NOTE: Model 49-1076, Code 122, is identical to Model 49-1075, Code 122, run 5, and the run numbers were continued from that point; that is, the first production of Model 49-1076, Code 122 was numbered run 5 so that the first change in circuit design was numbered run 6.

MODEL 49-1240, CODES 121 AND 123 (MAIN CHASSIS)

2	Power transformer changed.	32-8376	32-8357	To facilitate material procurement.
2	10-mf. condenser added between top of resistor R330 and ground. The physical wiring is as follows: The common tie point (lug) on the terminal strip for R327 and R328 was moved to the next lug at the left. The wire connecting these two lugs was removed. The 10-mf. condenser was then added, between the first lug (from which R327 and R328 were removed) and ground; the ground connection was made at the lug located on the terminal strip immediately beside the 7Z4 rectifier tube. A lead was then connected between the condenser and the top of R330.	30-2417-6		To provide tuner B+ decoupling.

SECTION II—TELEVISION (BY MODELS) GROUP 1A

MODEL 49-1240, CODES 121 AND 123 (MAIN CHASSIS) (Cont.)

RUN NO.	DESCRIPTION OF CHANGE	NEW OR ADDED PART NO.	OLD OR REMOVED PART NO.	REASON FOR CHANGE
3	R330 changed from 680 ohms to 10,000 ohms, 10 watts, and wired to 320-volt supply instead of 158-volt supply.	33-1335-47	66-1684340	To reduce drain on 7Z4.
4	C522 changed from .047 mf. to .08 mf.	30-4651-3	61-0122	To improve horizontal linearity.
5	R107, 56-ohm resistor, added in cathode circuit of 7Z4.	66-0565340		To reduce surge currents.

MODEL 49-1275, CODE 121 (MAIN CHASSIS)

3	R330 changed from 680 ohms to 10,000 ohms, 10 watts, and wired to 320-volt supply instead of 158-volt supply.	33-1335-47	66-1684340	To reduce drain on 7Z4.
4	C522 changed from .047 mf. to .08 mf.	30-4651-3	61-0122	To improve horizontal linearity.
5	R532 changed from 33,000 ohms to 36,000 ohms (obtained by placing a 56,000-ohm resistor and a 100,000-ohm resistor in parallel).	66-0565340 66-4103340		To improve horizontal control range.
6	R107, 56-ohm resistor, added in cathode circuit of 7Z4.	66-0565340		To reduce surge currents.
6	During run 6, 1800-ohm resistor added in series with C513 and ground.	66-2183340		To modify width, to center range of WIDTH control.

NOTE: Runs 1 and 2 of the Model 49-1275, Code 121, "main chassis" are identical; the difference in identification is due to an error in marking.

MODEL 49-1278, CODE 122; AND MODEL 49-1280, CODE 122 (MAIN CHASSIS)

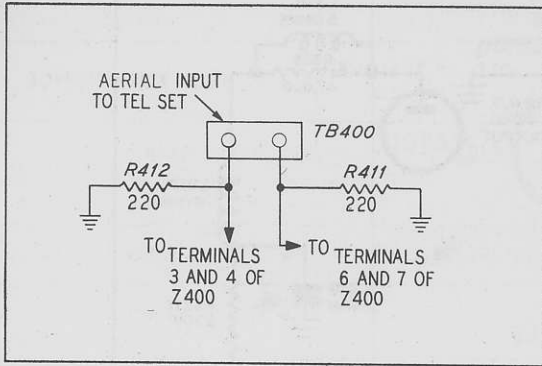
7	R532 changed to 39,000 ohms.	66-3398340	66-3363340 66-4103340	To modify width, to center range of WIDTH control.
8	1800-ohm resistor in series with C513 and ground removed. Loose end of C513 grounded.		66-2183340	To increase picture width.

NOTE: Model 49-1278, Code 122, and Model 49-1280, Code 122, are identical to Model 49-1275, Code 121, run 6, and the run numbers were continued from that point; that is, the first production of these models was numbered run 6 so that the first change in circuit design was numbered run 7.

ALL MODELS (I-F SUBCHASSIS)

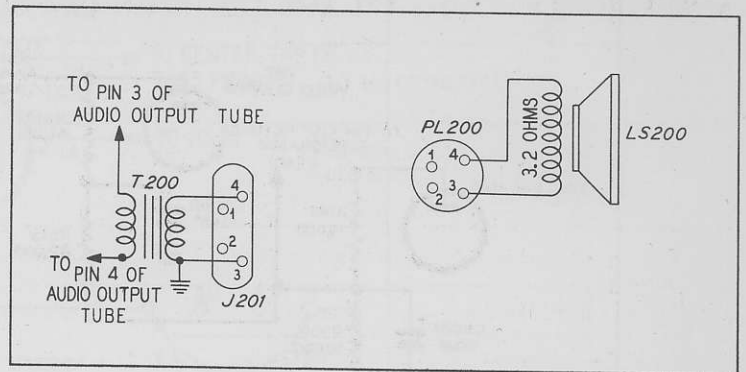
2	470-mmf. condenser added across cathode resistor (R201) of 1st sound-i-f tube.	62-147001001		To increase sound-i-f sensitivity.
3	L300, L301, L302 changed.	32-4359	32-4234-1	To facilitate padding.
4	Z201 changed to improve transformer.	32-4317	32-4236	To increase noise rejection and reduce drift.

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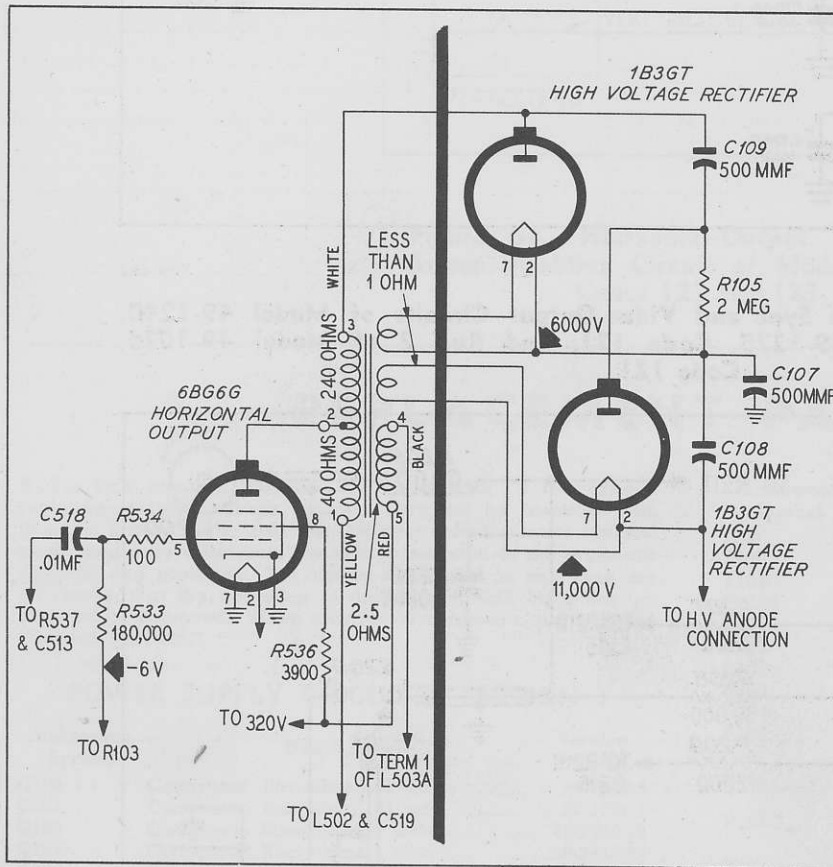
TP-6453M3

Figure 61. Aerial-Input Circuit of Model 49-1240, Codes 121 and 123



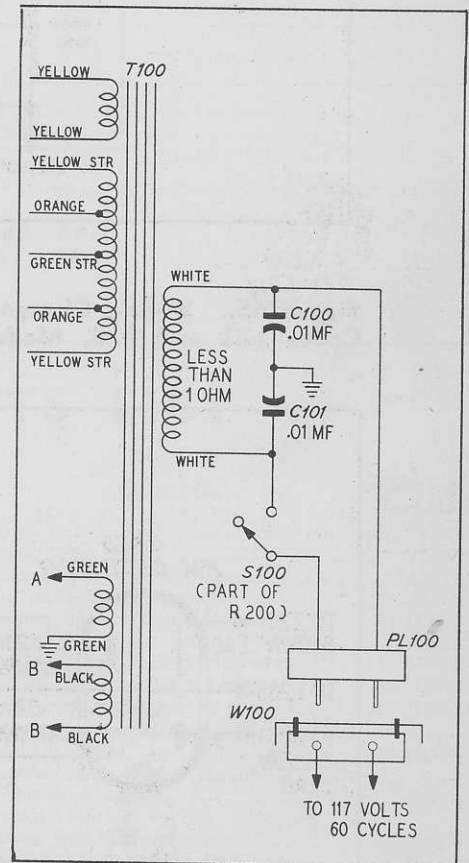
TP-6453M2

Figure 62. Speaker Circuit of Model 49-1240, Codes 121 and 123



TP-6453M

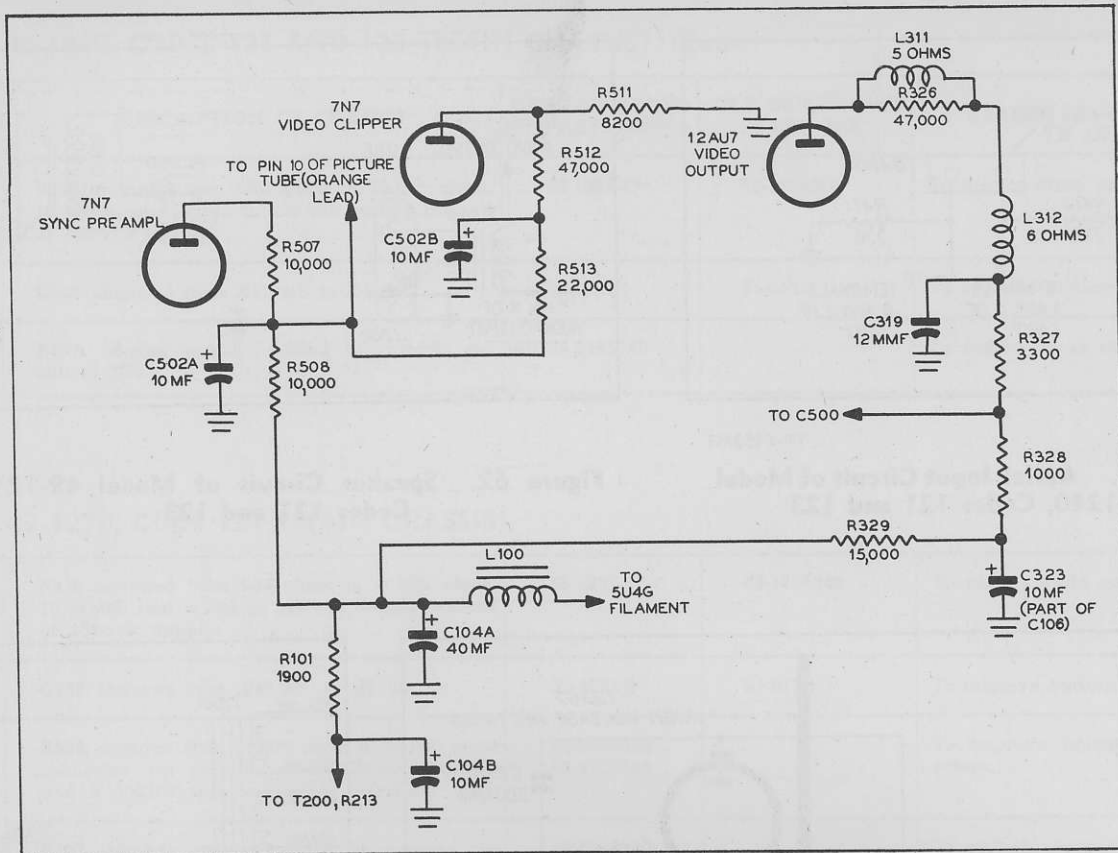
Figure 63. Horizontal-Output Stage and High-Voltage Power Supply of Model 49-1240, Codes 121 and 123, Model 49-1275, Code 121, Model 49-1278, Code 122, and Model 49-1280, Code 122



TP-6453M1

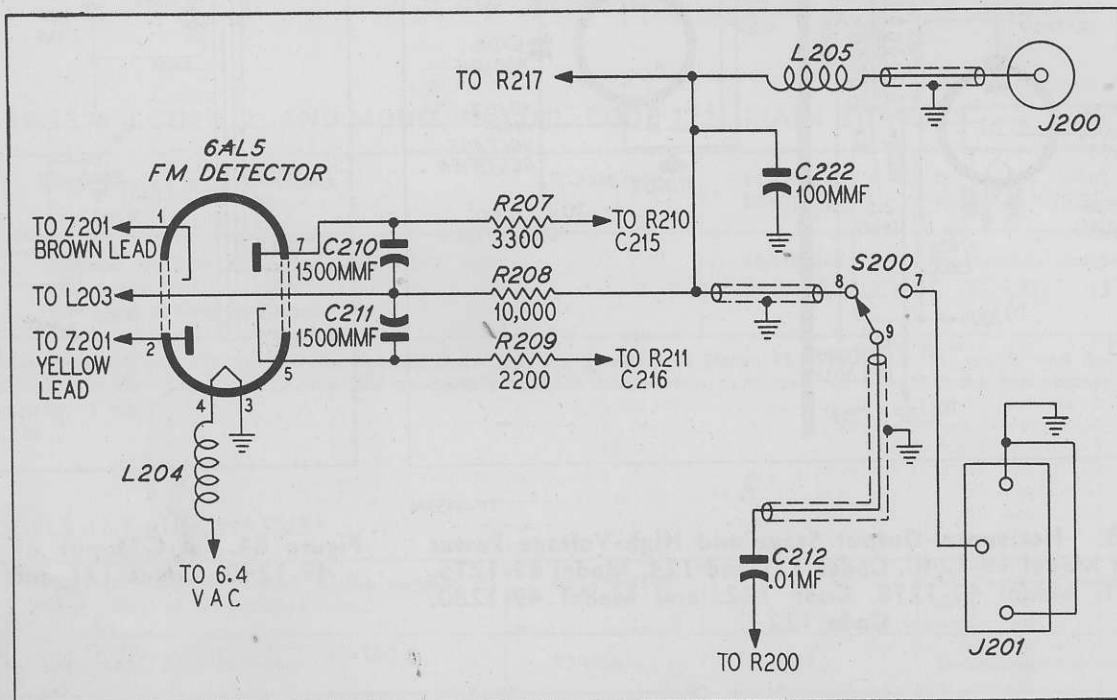
Figure 64. A-C Input of Model 49-1240, Codes 121 and 123

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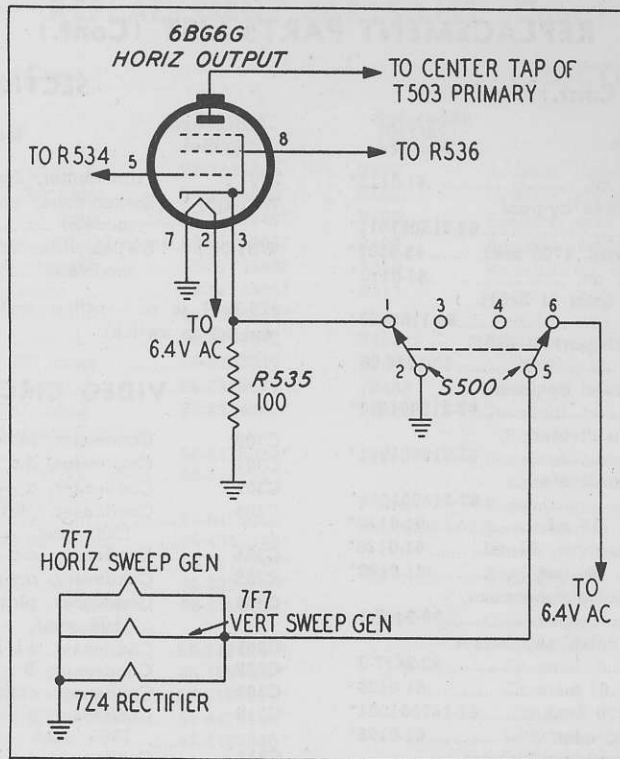
Figure 65. Wiring Changes in Sync and Video-Output Circuits of Model 49-1240, Codes 121 and 123, Model 49-1275, Code 121, and Run 2 of Model 49-1075, Code 121



TP-6473

Figure 66. FM-Detector Output Circuit of Models 49-1240, Codes 121 and 123

SECTION II—TELEVISION (BY MODELS) GROUP 1A



TP-6474

Figure 67. Horizontal-Output Stage and Sweep-Disabling Circuit of Model 49-1240, Codes 121 and 123

REPLACEMENT PARTS LIST

NOTE: Part numbers identified by an asterisk (*) are general replacement items. These numbers may not be identical with those on factory parts; also, the electrical values of some replacement items may differ from the values indicated in the schematic diagram and 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."

POWER SUPPLY CIRCUITS—SECTION 1

Reference Symbol	Description	Service Part No.
C100	Condenser, line filter, .01 mf.	30-1226-1
C101	Condenser, line filter, .01 mf.	30-1226-1
C102	Condenser, filter, 30 mf., 300v	30-2568-19
C103	Condenser, filter, 30 mf., 475v	30-2568-23
C104	Condenser, electrolytic, 4-section	30-2570-41
C104A	Condenser, filter, 40 mf., 475v	Part of C104
C104B	Condenser, filter, 10 mf., 475v	Part of C104
C104C	Condenser, filter, 20 mf., 475v	Part of C104
C105	Condenser, bias filter, .1 mf.	61-0113*
C106	Condenser, electrolytic, 3-section	30-2570-16
C106A	Condenser, filter, 10 mf., 450v	Part of C106
C107	Condenser, high-voltage filter, 500 mmf.	30-1229-2
C108	Condenser, high-voltage filter, 500 mmf. (12-inch models)	30-1229-2
C109	Condenser, d-c blocking, 500 mmf. (12-inch models)	30-1229-2
C110	Condenser, filter, 10 mf.	30-2417-6*
I100	Lamp, telltale (combination models)	34-2068

Reference Symbol	Description	Service Part No.
J100	Socket, radio power (combination models)	76-3931
L100	Choke, filter	32-8366
L101	Choke, filter	32-8355-1
PL100	Plug (receptacle), line cord	27-6240
R100	Resistor, filter, 470 ohms	66-1475340*
R101	Resistor, filter, 1900 ohms, 7 watts	33-3435-15
R102	Resistor, bias filter, 100,000 ohms	66-4103340*
R103	Resistor, bias divider, 12 ohms	66-0125340*
R104	Resistor, bias divider, 12 ohms	66-0125340*
R105	Resistor, current limiting, 1 megohm (10-inch models)	66-5104340*
R105	Resistor, diode load, 2 megohms, 5 watts (12-inch models)	33-1338
R106	Resistor, telltale voltage dropping, 33 ohms (combination models)	66-0333340*
R107	Resistor, B+ dropping, 6800 ohms	66-2684340
S100	Switch, ON-OFF (combination models)	Part of 76-3964†
S100	Switch, ON-OFF (console models)	Part of R200
T100	Transformer, power	32-8357
T100	Transformer, power (49-1275)	32-8376
W100	Line cord	41-3865

SOUND CIRCUITS—SECTION 2

C200A	Condenser, trimmer	Part of Z200
C200B	Condenser, trimmer	Part of Z200
C201A	Condenser, trimmer	Part of Z201
C202	Condenser, fixed trimmer, 56 mmf.	62-056409001*

SECTION II—TELEVISION (BY MODELS) GROUP 1A

REPLACEMENT PARTS LIST (Cont.)

SECTION 2 (Cont.)

Reference Symbol	Description	Service Part No.
C203	Condenser, a-f-c filter, .1 mf.	61-0113*
C204	Condenser, plate and screen by-pass, 1500 mmf.	62-215001011*
C205	Condenser, cathode by-pass, 4700 mmf.	45-3502*
C206	Condenser, a-f-c filter, .1 mf.	61-0113*
C207	Condenser, d-c blocking (part of Z201), 100 mmf.	60-1105407*
C208	Condenser, fixed trimmer, (part of Z201), 10 mmf.	30-1224-26
C209	Condenser, plate and screen by-pass, 1500 mmf.	62-215001011*
C210	Condenser, audio voltage divider, 1500 mmf.	62-215001011*
C211	Condenser, audio voltage divider, 1500 mmf.	62-215001011*
C212	Condenser, d-c blocking, .01 mf.	61-0120*
C213	Condenser, bass compensation, .01 mf.	61-0120*
C214	Condenser, d-c blocking, .01 mf.	61-0120*
C215	Condenser, electrolytic, noise suppressor, 10 mf., 50v	30-2417-3
C216	Condenser, electrolytic, noise suppressor, 10 mf., 50v	30-2417-3
C217	Condenser, d-c blocking, .01 mf.	61-0120*
C218	Condenser, r-f by-pass, 470 mmf.	62-147001001*
C219	Condenser, high cut, 6800 mmf.	61-0105*
C220	Condenser, electrolytic, cathode by-pass, 40 mf., 50v	Part of C509
C221	Condenser, r-f by-pass, 1500 mmf.	62-215001011*
C222	Condenser	62-110009001
J200	Socket, a-f-c test	27-6180
J201	Socket, speaker	27-6214-1
J202	Jack, phono input (49-1240)	27-6126
L202	Coil, 1st sound autotransformer	32-4303
L203	Choke, FM detector balancing	32-4143-1
L204	Choke, filament	32-4112-11
L205	Choke, decoupling, a-f-c test	32-4143-1
LS200	Speaker (combination models)	36-1610-2
LS200	Speaker (console models)	36-1507-3
PL200	Plug, speaker	27-4788
R200	Volume control, 2 megohms (tap at 1 meg- ohm) (combination models)	Part of 76-3964†
R200	Volume control, 2 megohms (tap at 1 meg- ohm) (console models)	33-5564
R201	Resistor, cathode bias, 68 ohms	66-0683340*
R202	Resistor, B+ decoupling, 330 ohms	66-1333340*
R203	Resistor, plate and screen decoupling, 1000 ohms	66-2103340*
R204	Resistor, cathode bias, 68 ohms	66-0683340
R205	Resistor, plate and screen decoupling, 1000 ohms	66-2103340*
R206	Resistor, bass compensation, 47,000 ohms	66-3473340*
R207	Resistor, harmonic suppressor, 3300 ohms	66-2333340*
R208	Resistor, a-f decoupling, 10,000 ohms	66-3103340*
R209	Resistor, harmonic suppressor, 2200 ohms	66-2223340*
R210	Resistor, diode return, 27,000 ohms	66-3273340*
R211	Resistor, diode return, 27,000 ohms	66-3273340*
R212	Resistor, grid return, 4.7 megohms	66-5473340*
R213	Resistor, plate load, 330,000 ohms	66-4334340*
R214	Resistor, grid return, 1 megohm	66-5103340*
R215	Resistor, cathode bias, 470 ohms	66-1475340*
R216	Resistor, a-f-c filter, 470,000 ohms	66-4473340*
R217	Resistor, a-f-c filter, 470,000 ohms	66-4473340*
R218	Resistor, cathode bias, 33 ohms	66-0333340*
S200	Switch, phono-television (49-1240)	42-1863
T200	Transformer, audio output	32-8356
TC200	Core, tuning	Part of L202
TC201	Core, tuning	Part of Z201
TC202	Core, tuning	Part of Z201
Z200	Transformer, 1st i-f, sound	32-4236

SECTION 2 (Cont.)

Reference Symbol	Description	Service Part No.
Z201	Transformer, 2nd i-f, sound	32-4214-4*
WS1-1(R)	Switch-wafer section (combination models)	Part of 76-3964†
WS1-2(F)	Switch-wafer section (combination models)	Part of 76-3964†

†76-3964 is a 2-section wafer switch (including volume control and off-on switch).

VIDEO CIRCUITS—SECTION 3

C300	Condenser, plate by-pass, 1500 mmf.	62-215001011*
C301	Condenser, d-c blocking, 470 mmf.	62-147001001
C302	Condenser, a-v-c filter, 1500 mmf.	62-215001011*
C303	Condenser, plate and screen by-pass, 1500 mmf.	62-215001011*
C304	Condenser, d-c blocking, 470 mmf.	62-147001001
C305	Condenser, a-v-c filter, 1500 mmf.	62-215001011*
C306	Condenser, plate and screen by-pass, 1500 mmf.	62-215001011*
C307	Condenser, d-c blocking, 470 mmf.	62-147001001
C308	Condenser, B+ by-pass, 1500 mmf.	62-215001011*
C309	Condenser, cathode by-pass, .0047 mf.	45-3502*
C310	Condenser, plate and screen by-pass, 1500 mmf.	62-215001011*
C311	Condenser, d-c blocking, 470 mmf.	62-147001001
C312	Condenser, d-c blocking, 100 mmf.	62-110009001*
C313	Condenser, r-f by-pass, 1500 mmf.	62-215001011*
C314	Condenser, fixed trimmer, 10 mmf.	62-010009001*
C315	Condenser, fixed trimmer, 56 mmf.	62-056409001*
C316	Condenser, d-c blocking, .047 mf.	61-0122*
C317	Condenser, electrolytic, low-frequency compensation, 10 mf., 475v	Part of C502
C318	Condenser, d-c blocking, .22 mf.	45-3500-9*
C319	Condenser, high-frequency compensation, 12 mmf.	30-1223-2
C320	Condenser, video by-pass, .5 mf.	45-3500-4*
C321	Condenser, d-c blocking, .047 mf.	61-0122*
C322	Condenser, d-c blocking, .0047 mf.	45-3502*
C323	Condenser, electrolytic, low-frequency compensation, 10 mf., 450v	Part of C106
C324	Condenser, electrolytic, a-v-c filter, 10 mf., 25v	30-2417-3*
J300	Socket, tuner test	27-6126
J301	Socket, video alignment	27-6180
L300	Coil, plate tank	32-4234-1
L301	Coil, plate tank	32-4234-1
L302	Coil, plate tank	32-4234-1
L303	Coil, plate tank	32-4234-1
L304	Coil, diode return	32-4143-1
L305	Choke, filament	32-4112-11
L306	Coil, series peaking	32-4143
L307	Coil, shunt peaking	32-4143-7
L308	Coil, sound trap	32-4302
L309	Coil, series peaking	32-4143-7
L310	Coil, shunt peaking	32-4143-7
L311	Coil, series peaking	32-4143-5
L312	Coil, shunt peaking	32-4143-7
L313	Choke, harmonic oscillation suppression	32-4112-11
R300	Contrast control, 5000 ohms	33-5546-11
R301	Brightness control, 100,000 ohms	33-5539-43
R302	Resistor, grid return, 15,000 ohms	66-3153340*
R303	Resistor, a-v-c filter, 3300 ohms	66-2333340*
R304	Resistor, cathode bias, 68 ohms	66-0683340*
R305	Resistor, B+ decoupling, 3300 ohms	66-2333340*
R306	Resistor, plate and screen decoupling, 330 ohms	66-1334340*
R307	Resistor, cathode bias, 68 ohms	66-0683340*
R308	Resistor, grid return, 5600 ohms	66-2563340*
R309	Resistor, a-v-c filter, 3300 ohms	66-2333340*
R310	Resistor, plate and screen decoupling, 330 ohms	66-1333340*

SECTION II—TELEVISION (BY MODELS) GROUP 1A

REPLACEMENT PARTS LIST (Cont.)

SECTION 3 (Cont.)

Reference Symbol	Description	Service Part No.
R311	Resistor, loading, 15,000 ohms	66-3153340*
R312	Resistor, grid return, 47,000 ohms	66-3473340*
R313	Resistor, cathode bias, 100 ohms	66-1103340*
R314	Resistor, α-v-c diode load, 120,000 ohms	66-4123340*
R315	Resistor, i-f filter, 27,000 ohms	66-3273340*
R316	Resistor, loading, 47,000 ohms	66-3473340*
R317	Resistor, diode return, 3300 ohms	66-2333340*
R318	Resistor, grid return, 1 megohm	66-5103340*
R319	Resistor, α-v-c filter, 10,000 ohms	66-3103340*
R320	Resistor, loading, 47,000 ohms	66-3473340*
R321	Resistor, plate load, 3300 ohms	66-2334340*
R322	Resistor, low-frequency compensation, 4700 ohms	66-2474340*
R323	Resistor, cathode limiter, 100,000 ohms	66-4103340*
R324	Resistor, minimum cathode bias, 47 ohms	66-0473340*
R325	Resistor, grid return, 330,000 ohms	66-4333340*
R326	Resistor, loading, 47,000 ohms	66-3473340*
R327	Resistor, plate load, 3300 ohms	66-2334340*
R328	Resistor, voltage divider, 1000 ohms	66-2103340*
R329	Resistor, low-frequency compensation, 4700 ohms	66-2474340*
R330	Resistor, B+ decoupling, 680 ohms	66-1684340*
R331	Resistor, isolating, 10,000 ohms	66-3103340*
R332	Resistor, grid return, 470,000 ohms	66-4473340*
R333	Resistor, diode load, 1 megohm	66-5103340*
S300	Switch, AVC ON-OFF	42-1683
TC300	Core, tuning	Part of L300
TC301	Core, tuning	Part of L301
TC302	Core, tuning	Part of L302
TC303	Core, tuning	Part of L303
TC304	Core, tuning	Part of L308

R-F CIRCUITS—SECTION 4

C400A	Condenser, fixed padder	Part of Z400
C400B	Condenser (distributed capacitance), fixed padder	Part of Z400
C401	Condenser, fixed padder, 10 mmf.	62-010009001*
C402	Condenser, r-f by-pass, 470 mmf.	62-147001001*
C403	Condenser, d-c blocking, 22 mmf	62-022009001*
C404	Condenser, r-f by-pass, 470 mmf.	62-147001001*
C405	Condenser, r-f by-pass, 220 mmf.	62-122001001*
C406	Condenser, neutralizing, 3.3 mmf.	30-1221
C407	Condenser, d-c blocking, 220 mmf.	62-122001001*
C408	Condenser, fil. by-pass, 470 mmf.	62-147001001*
C409	Condenser, fil. by-pass, 470 mmf.	62-147001001*
C410	Condenser, d-c blocking, 220 mmf.	62-122001001*
C411	Condenser, trimmer	31-6493-1
C412	Condenser, d-c blocking, 220 mmf.	62-122001001*
C413	Condenser, r-f by-pass, 470 mmf.	62-147001001*
C414	Condenser, screen by-pass, 470 mmf.	62-147001001*
C415	Condenser, screen by-pass, 10 mmf.	62-010009001*
C416	Condenser, trimmer	31-6493-1
C417	Condenser, screen by-pass, 10 mmf.	62-010009001*
C418	Condenser, screen by-pass, 470 mmf.	62-147001001*
L400A	Coil, aerial coupling	Part of Z400
L400B	Coil, r-f coupling	Part of Z400
L400C	Coil, aerial	Part of Z400
L400D	Coil, r-f	Part of Z400
L401A	Coil, osc.	Part of Z401
L401B	Coil, mixer	Part of Z401
L402	Choke, plate	32-4112-2
L403	Choke, filament	32-4112-11
L404	Choke, filament	32-4112-4
R400	Resistor, voltage divider, 22,000 ohms	66-3224340*
R401	Resistor, grid return, 22,000 ohms	66-3223340*
R402	Resistor, grid return, 22,000 ohms	66-3223340*
R403	Resistor, cathode bias, 220 ohms	66-1223340*
R404	Resistor, phase shifter, 560 ohms	66-1563340*
R405	Resistor, grid return, 100,000 ohms	66-4103340*

SECTION 4 (Cont.)

Reference Symbol	Description	Service Part No.
R406	Resistor, cathode bias, 47 ohms	66-0473340*
R407	Resistor, plate load, 2700 ohms	66-2273340*
R408	Resistor, grid return, 100,000 ohms	66-4103340*
R409	Resistor, screen dropping, 56,000 ohms	66-3563340*
R410	Resistor, B+ decoupling, 1000 ohms	66-2103340*
R411	Resistor, balancing and matching, 220 ohms	66-1223340*
R412	Resistor, balancing and matching, 220 ohms	66-1223340*
TB400	Terminal board, aerial	38-8689
TB401	Terminal board with rivets, 7-connection, aerial and r-f contacts	45-9519
TB402	Terminal board with rivets, 4-connection, osc. and mixer contacts	45-9520
TC400	Tuning core, osc.	Part of L401A
WS1-2(R)	Switch-wafer section (combination models)	Part of 76-3964†
WS1-1(F)	Switch-wafer section (combination models)	Part of 76-3964†
Z400	Coil assembly, snap-in, aerial and r-f	
	Channel 2	32-4115-2
	Channel 3	32-4115-3
	Channel 4	32-4115-4
	Channel 5	32-4115-5
	Channel 6	32-4115-6
	Channel 7	32-4115-7
	Channel 8	32-4115-8
	Channel 9	32-4115-9
	Channel 10	32-4115-10
	Channel 11	32-4115-11
	Channel 12	32-4115-12
	Channel 13	32-4115-13
Z401	Coil assembly, snap-in, osc.	
	Channel 2	32-4222-2
	Channel 3	32-4222-3
	Channel 4	32-4222-4
	Channel 5	32-4222-5
	Channel 6	32-4222-6
	Channel 7	32-4222-7
	Channel 8	32-4222-8
	Channel 9	32-4222-9
	Channel 10	32-4222-10
	Channel 11	32-4222-11
	Channel 12	32-4222-12
	Channel 13	32-4222-13

†76-3964 is a 2-section wafer switch (including volume control and off-on switch).

SWEEP CIRCUITS—SECTION 5

BB500	Permanent magnet, beam bender	76-3913
C500	Condenser, d-c blocking, .047 mf.	61-0122*
C501	Condenser, d-c blocking, .047 mf.	61-0122*
C502	Condenser, electrolytic, 4-section	30-2570-10
C502A	Condenser, filter, 10 mf., 475v	Part of C502
C502B	Condenser, filter, 10 mf., 475v	Part of C502
C502C	Condenser, filter, 10 mf., 475v	Part of C502
C503	Condenser, d-c blocking, .047 mf.	61-0122*
C504	Condenser, integrating, .0033 mf.	61-0109*
C505	Condenser, integrating, .0033 mf.	61-0109*
C506	Condenser, integrating, .001 mf.	45-3500-5*
C507	Condenser, d-c blocking, .01 mf.	61-0120*
C508	Condenser, differentiating, 820 mmf.	60-10825401*
C509	Condenser, electrolytic, 3-section	30-2570-16
C509A	Condenser, filter, 10 mf., 450v	Part of C509
C509B	Condenser, filter, 10 mf., 450v	Part of C509
C510	Condenser, grid blocking, .1 mf.	61-0113*
C511	Condenser, d-c blocking, .1 mf.	61-0113*
C512	Condenser, vertical-sweep charging, .1 mf.	61-0113*

SECTION II—TELEVISION (BY MODELS) GROUP 1A

REPLACEMENT PARTS LIST (Cont.)

SECTION 5 (Cont.)

Reference Symbol	Description	Service Part No.
C513	Condenser, horizontal-sweep charging, 680 mmf., 10-inch models	60-10685401*
C513	Condenser, horizontal-sweep charging, 560 mmf., 12-inch models	60-10565401*
C514	Condenser, cathode by-pass, .1 mf	61-0113*
C515	Condenser, plate by-pass, .1 mf	61-0113*
C516	Condenser, fixed trimmer, 2000 mmf.	Part of L501
C517	Condenser, d-c blocking, 560 mmf.	60-10565307*
C518	Condenser, d-c blocking, .01 mf	61-0120*
C519	Condenser, cathode by-pass, 680 mmf., 10-inch models	60-10685401*
C520	Condenser, cathode by-pass, 10 mf., 25v, 10-inch models	Part of C104
C521	Condenser, linearity shaping, .08 mf.	30-4651-3
C522	Condenser, linearity shaping, .047 mf.	61-0122*
C523	Condenser, d-c blocking, .47 mf.	45-3500-10*
C524	Condenser, cathode by-pass, 40 mf., 50v	Part of C106
J500	Socket, sync test	27-6180
J501	Socket, deflection-yoke cable	27-6174-4
L500A	Horizontal-deflection coil (yoke)	Part of Z500
L500B	Vertical-deflection coil (yoke)	Part of Z500
L500C	Vertical-deflection coil (yoke)	Part of Z500
L501	Choke and condenser, plate tank	32-4284-1
L502	Linearity control, horizontal	32-4211
L503	Width-adjustment coils	32-4318
L503A	Width-adjustment coils	Part of L503
L503B	Width-adjustment coils	Part of L503
L504	Focus coil	Part of Z501
PL500	Deflection-plug-and-cable assembly	41-3860
PL501	Plug-and-cable assembly, picture-tube socket	41-3772-2
R500	Horizontal hold control, 25,000 ohms	33-5563
R501	Vertical hold control, 100,000 ohms	Part of R500
R502	Height control, 250,000 ohms	33-5539-42
R503	Vertical linearity control, 5000 ohms	33-5546-10
R504	Focus control, 200 ohms (10-inch models)	33-5546-13
R504	Focus control, 500 ohms (12-inch models)	33-5547-4
R505	Resistor, cathode bias, 220 ohms	66-1223340*
R506	Resistor, grid return, 1 megohm	66-5103340*
R507	Resistor, plate load, 10,000 ohms	66-3105340*
R508	Resistor, plate decoupling, 10,000 ohms	66-3105340*
R509	Resistor, video filter, 8200 ohms	66-2823340*
R510	Resistor, grid return, 1 megohm	66-5103340*
R511	Resistor, voltage divider, 8200 ohms	66-2823340*
R512	Resistor, plate load, 47,000 ohms	66-3474340*
R513	Resistor, plate decoupling, 22,000 ohms	66-3224340*
R514	Resistor, plate limiting, 100,000 ohms	66-4104340*
R515	Resistor, integrating, 22,000 ohms	66-3223340*
R516	Resistor, integrating, 22,000 ohms	66-3223340*
R517	Resistor, integrating, 33,000 ohms	66-3333340*
R518	Resistor, grid return, 1.2 megohms	66-5124340*
R519	Resistor, plate decoupling, 10,000 ohms	66-3105340*
R520	Resistor, plate load, 10,000 ohms	66-3104340*
R521	Resistor, differentiating, 330 ohms	66-1333340*
R522	Resistor, grid decoupling, 10,000 ohms	66-3103340*
R523	Resistor, grid decoupling, 10,000 ohms	66-3103340*
R524	Resistor, vertical charging, 470,000 ohms	66-4474340*
R525	Resistor, limiting, 27,000 ohms	66-3274340*
R526	Resistor, linearity (vert.), 2200 ohms	66-2223340*
R527	Resistor, grid return, 2.2 megohms	66-5223340*
R528	Resistor, cathode bias, 1000 ohms	66-2104340*
R529	Resistor, limiting, 68,000 ohms	66-3684340*
R530	Resistor, plate load, 2200 ohms	66-2224340*
R531	Resistor, plate decoupling, 22,000 ohms	66-3224340*
R532	Resistor, limiting, 33,000 ohms	66-3334340*
R533	Resistor, grid return, 180,000 ohms	66-4184340*
R534	Resistor, parasitic suppressor, 100 ohms	66-1103340*
R535	Resistor, cathode bias, 100 ohms (10-inch models)	66-1105340*
R536	Resistor, screen dropping, 3900 ohms	66-2395340*

SECTION 5 (Cont.)

Reference Symbol	Description	Service Part No.
R537	Resistor, damping, 33,000 ohms (10-inch models)	66-3335340*
R537	Resistor, damping, 120,000 ohms (12-inch models)	66-4125340*
R538	Resistor, horizontal charging, 100,000 ohms	66-4103340*
R539	Resistor, cathode bias, 1000 ohms	66-2103340*
R540	Resistor, damping, 1000 ohms	66-2103340*
R541	Resistor, damping, 1000 ohms	66-2103340*
T500	Transformer, vertical-sweep generator	32-8304*
T501	Transformer, vertical-sweep output	32-8306-1
T502	Transformer, horizontal-sweep generator	32-8307-2
T503	Transformer, horizontal-sweep output (10-inch models)	32-8331
T503	Transformer, horizontal-sweep output (12-inch models)	32-8358
TB500	Bracket and panel assembly (width adjustment)	76-4239
TC500	Tuning core	Part of L502
TC501	Tuning core	Part of L503
Z500	Deflection-coil assembly	32-9604
Z501	Focus-coil assembly (10-inch models)	76-2622-1
Z501	Focus-coil assembly (12-inch models)	76-2622-3

MISCELLANEOUS

NOTE: Items marked 49-1075 apply to Codes 121 and 122 of that model. Items marked 49-1240 apply to Codes 121 and 123 of that model unless otherwise specified.

Description	Service Part No.
Base, shield, miniature socket (all models)	56-3978FA3
Cabinet and cabinet hardware	
Cabinet	
49-1075 (M)	10711
49-1075 (L)	10711B
49-1076 (M)	10711F
49-1076 (L)	10711G
49-1275, 49-1278 (M)	10711A
49-1275, 49-1278 (L)	10711C
49-1240 (M)	10716
49-1240 (L)	10716A
49-1280	10736
Back, radio (**)	54-7608
Back, radio (49-1280)	76-4816
Back, television (**)	56-5728
Back, phonograph (49-1280)	54-7747
Back-and-cup assembly	
49-1240, Code 121	76-3986
49-1280	76-4470
Back-and-cup assembly (49-1240, Code 123)	
Back	54-7712
Cord and plate	76-4456
Cup	56-5171-5FJ31
Washer, flat	1W52020FA3
Washer, spring	28-4522-1
Baffle, speaker (49-1075, 49-1076)	219-118
Baffle, masonite (49-1240)	219-121
Baffle assembly, cardboard	
** (M)	40-7509
** (L)	40-7509-1
Baffle-and-cloth assembly (49-1280)	40-7618
Bezel, radio (49-1280)	56-6375
Bezel, television (49-1280)	56-6481
Bin mechanism (49-1280, **)	
L. H.	76-3223-5
R. H.	76-3223-6
Bolts, speaker (49-1280, **)	W1587
Brace, picture tube	
49-1240, 49-1280, 3½" x 5½"	56-5581-4FA3
49-1240, 3½" x 6⅞"	56-5581-5FA3
49-1280, 3½" x 6¼"	56-5581-10FA3

SECTION II—TELEVISION (BY MODELS) GROUP 1A

REPLACEMENT PARTS LIST (Cont.)

MISCELLANEOUS (Cont.)

Description	Service Part No.
Bracket, lamp, jewel (clamp)	56-3545-5FA3
Jewel (**)	54-4304
Brass pull (**)	56-5673
Bullet catch	
All models (M)	45-6002
All models (L)	45-6002-1
Cord-and-plate assembly (49-1280)	76-4456
Dome	
49-1280, **	45-6042
49-1240	45-6190
Door (49-1240 (M))	45-6439
Door (49-1240 (L))	45-6521
Door, matched set of 3 (**)	45-6440
Door, matched set of 4 (**)	45-6477
Door, matched set of 4 (49-1280)	45-6512
Door pull (**)	219-120
Escutcheon	
49-1275, 49-1278	56-6309
49-1240 (M)	56-6309
49-1240 (L)	56-6309-1
49-1280	56-6586
Screws, escutcheon	2W25238FA9
Frame assembly, record changer	
M-8	76-3222-1
M-9, M9-C, M12-C	76-4104
Hinge, butt (49-1280) (4 used)	56-6491
Hinge, butt, phonograph door (49-1280)	45-6067
Hinge, knife (49-1280)	56-6536
Hinge, knife	
49-1240 (M)	56-5765
49-1240 (L)	56-5765-1
Hinge, pair	
** (M)	56-5643
** (L)	56-5643-1
Hinge, knife, stop, L. H. (radio door)	
** (M)	56-5713
** (L)	56-5713-4
Hinge, knife, stop, R. H. (television door)	
** (M)	56-5713-1
** (L)	56-5713-5
Hinge, knife, L. H. (radio and phonograph door)	
** (M)	56-5713-2
** (L)	56-5713-6
Hinge, knife, stop, R. H. (record storage compartment)	
49-1076, 49-1278 (M)	56-5713-8
49-1076, 49-1278 (L)	56-5713-9
Hinge, knife, R. H. (television, phonograph, and compartment door)	
** (M)	56-5713-3
** (L)	56-5713-7
Knob, mahogany	
49-1240 (4 req.)	54-4376
49-1280 ** (8 req.)	54-4376
Knob, light	
49-1240 (4 req.)	54-4248
** (8 req.)	54-4248
Knob, mahogany (all models) (1 req.)	54-4567
Knob, light (all models) (1 req.)	54-4567-1
Knob, mahogany, HOLD control (all models) (1 req.)	54-4925-1
Knob, mahogany, tuner control (all models) (1 req.)	56-4925-3
Knob, light, HOLD control (all models) (1 req.)	56-4925-5
Knob, light, tuner control (all models) (1 req.)	56-4925-4
Mask	
49-1240 (M)	56-6332
49-1240 (L)	56-6332-1
49-1280	219-146
Nut, tube mtg., special (49-1280, **)	56-5740
Panel, instrument, radio (**)	45-6442

MISCELLANEOUS (Cont.)

Description	Service Part No.
Panel, instrument (television)	
49-1075, 49-1076	45-6475
49-1275, 49-1278	45-6476
Pull, left-hand door (49-1280)	56-6484-1
Pull, right-hand door (49-1280)	56-6484
Pull, phonograph door (49-1280)	56-6493
Scale	
** (M)	54-5009
** (L)	54-5009-1
49-1280	54-5024-1
Strap, scale	
**	56-2234-1
49-1240	56-5825
49-1280	56-2068
Spring, bin mechanism (49-1280, **)	56-4978-1
Strike plate	
All models, mahogany	45-6003
All models, light	45-6003-1
Top, cabinet (** (M))	45-6441
Window	
49-1240	54-7595-1
49-1075, 49-1076	54-7598
49-1275, 49-1278	54-7609
49-1280	54-7739
Window mounting strip	45-6443
Backplate assembly, scale (49-1280, **)	76-3918
Cable assembly, high-voltage	
**	41-3771-2
49-1240, 49-1280	41-3771-3
Cable assembly, picture-tube socket	
49-1240, **	48-3772-2
49-1280	41-3772-3
Clamp, resistor, high-voltage assembly (49-1240, 49-1275, 49-1278)	54-7541
Fastener, snap, diffusing panel (49-1280, **)	28-4342FA3
High-voltage-shield assembly (all models)	76-3841
Mounting-frame assembly, picture tube	
**	76-3796
49-1240, 49-1280	76-3938
Mounting frame, outside, picture (49-1240)	45-6482
Nut, knurled, mounting-frame assembly (all models)	56-4633
Panel-and-bracket assembly, width-adjustment coil	76-4239
Panel, back, high-voltage-shield assembly (all models)	56-5575FA15
Eyelets	2W35731
Plate, base, insulator, high-voltage (all models)	54-4578
Shield, light (**)	54-4614
Shield (6AT6) (all models)	56-5629FA3
Shield (6J6) (all models)	56-3979FA5
Shield, miniature (all models)	56-5629
Shield assembly, i-f, with mtg. clip (all models)	76-3985
Socket assembly, pilot lamp (49-1280, **)	27-6233
Socket assembly, pilot lamp (49-1280, **)	27-6233-21
Socket assembly, telltale (49-1280, **)	27-6233-19
Socket, Loktal (all models)	27-6138*
Socket, miniature (all models)	27-6226
Socket, miniature (12AU7), 9-pin (all models)	27-6203-5
Socket, miniature (6J6) (all models)	27-6203-1
Socket, octal (all models)	27-6174
Socket (1B3GT) (all models)	27-6174-5
Standoff	
49-1075, 49-1076	54-7309-1
49-1240, 49-1275, 49-1278	54-7309-2
Tuner assembly, complete	
With coils for channels 2, 3, 4, 5, 7, 9, 11 and 13	76-5057A
With coils for channels 2, 3, 4, 5, 6, 8, 10 and 12	76-5057B

**This reference symbol is used to indicate Models 49-1075, 49-1076, 49-1275, and 49-1278.

SECTION II—TELEVISION (BY MODELS) GROUP 1A

Refer to
Symb

C513
C513
C514
C515
C516
C517
C518
C519

C520
C521
C522
C523
C524

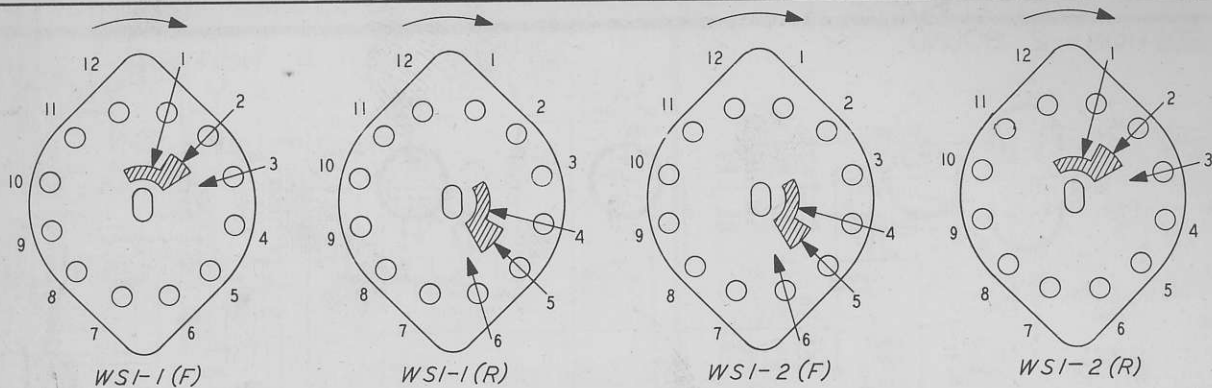
J500
J501
L500A
L500B
L500C
L501
L502
L503

L503A
L503B

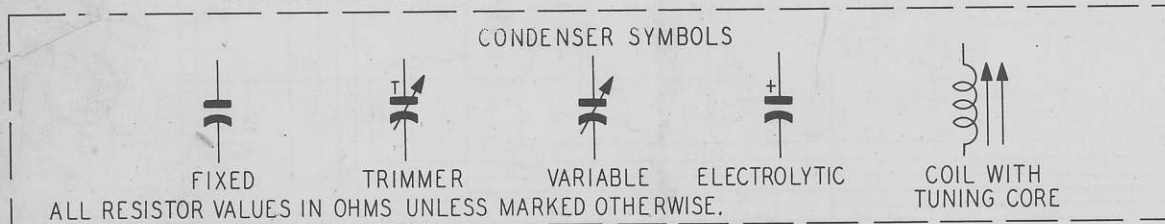
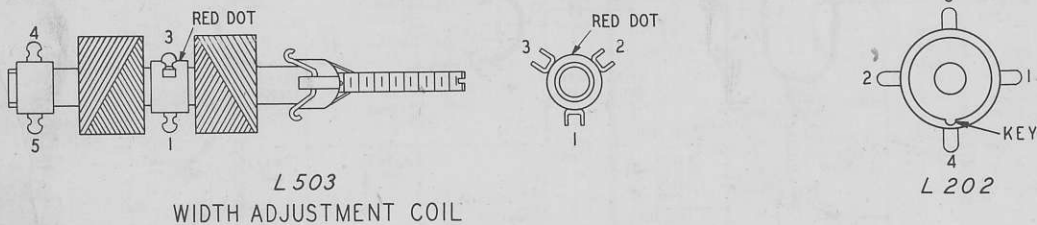
L504
PL500
PL501

R500
R501
R502
R503
R504
R504
R505
R506
R507
R508
R509
R510
R511
R512
R513
R514
R515
R516
R517
R518
R519
R520
R521
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R523
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R525
R526
R527
R528
R529
R530
R531
R532
R533
R534
R535

R536



RADIO-TELEVISION WAFER SWITCH (PART OF OFF-ON VOLUME CONTROL) SHOWN IN RADIO POSITION AS VIEWED FROM FRONT WITH CHASSIS INVERTED. WAFERS SYMBOLIZED WSI-1 AND WSI-2 FROM FRONT TOWARD REAR. (F) INDICATES CONTACTS ON FRONT OF WAFER LOOKING FROM FRONT. (R) INDICATES CONTACTS ON REAR OF WAFER LOOKING FROM FRONT.



SIGNAL PATH LEGEND

RF -RF	AFC -AUTOMATIC FREQUENCY CONTROL
OSC -OSCILLATOR, LOCAL	AVC -AUTOMATIC VIDEO CONTROL
MIXER -MIXER	CS -COMPOSITE VERTICAL AND HORIZONTAL SYNC
C -COMPOSITE VIDEO IF AND SOUND IF	VS -VERTICAL SYNC
SIF -SOUND IF	HS -HORIZONTAL SYNC
VIF -VIDEO IF	H SW -HORIZONTAL SWEEP
S -SOUND	V SW -VERTICAL SWEEP
CVS -COMPOSITE VIDEO AND SYNC	

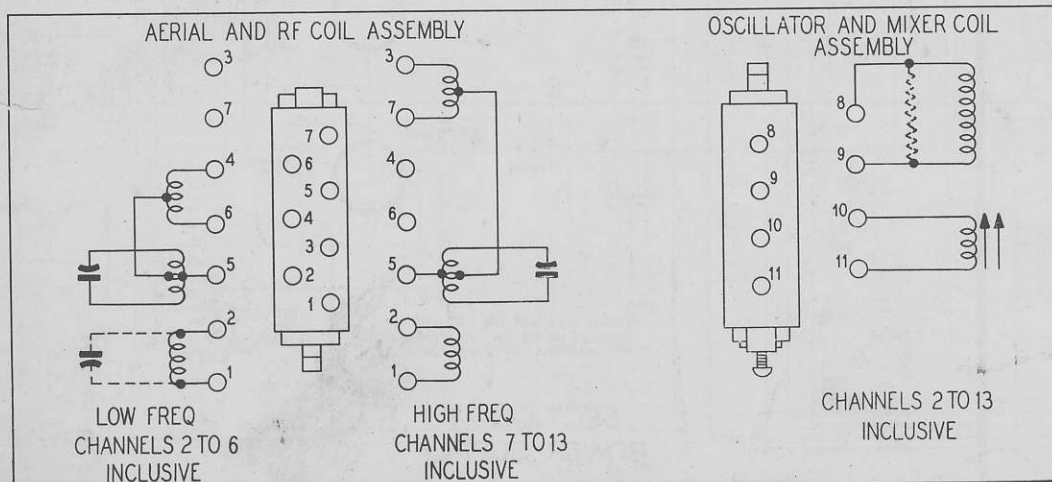


Figure 69. Wafer Switches, Tuners, Notes, Etc., Group 1A Models

TP-6453N

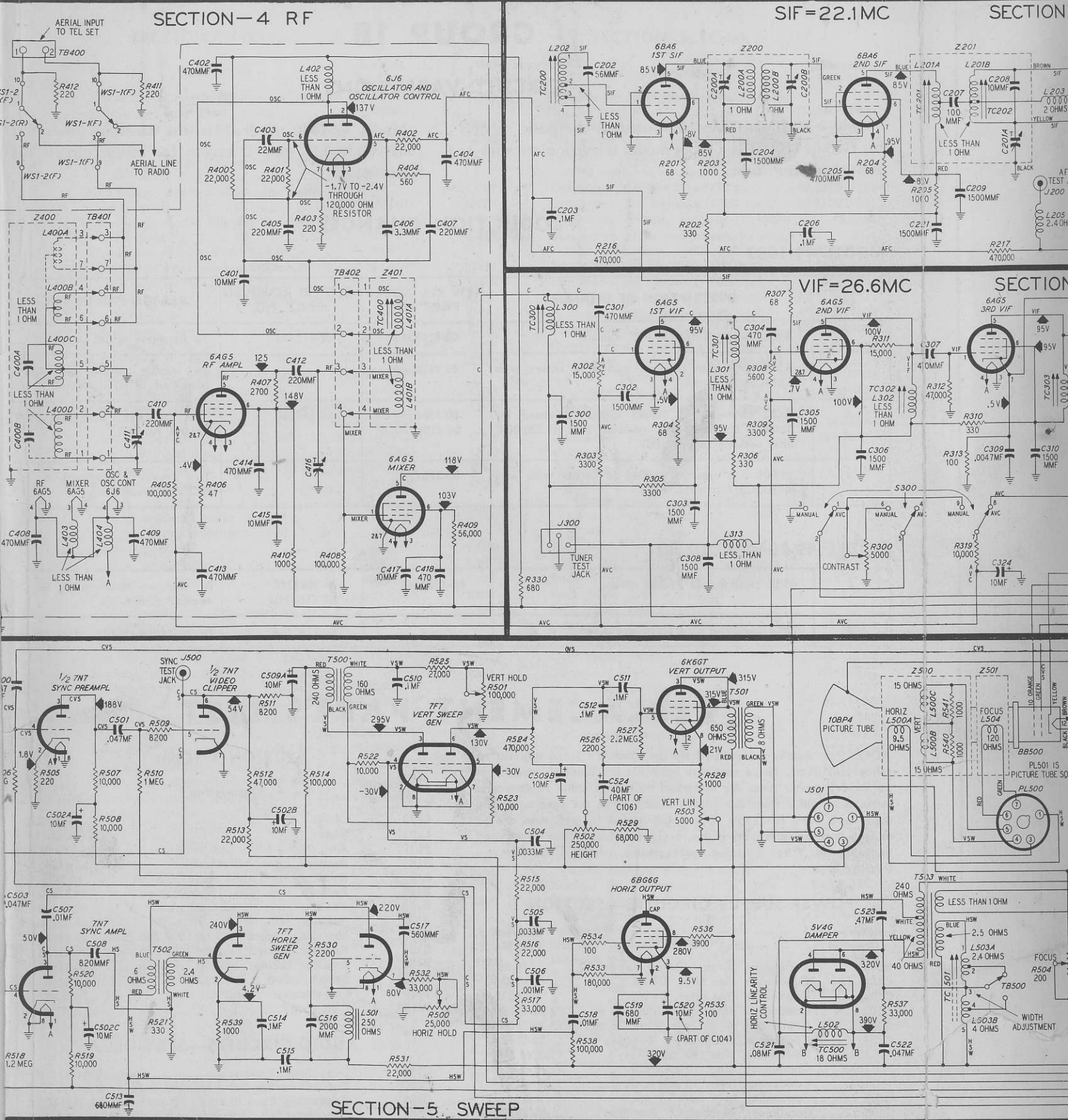
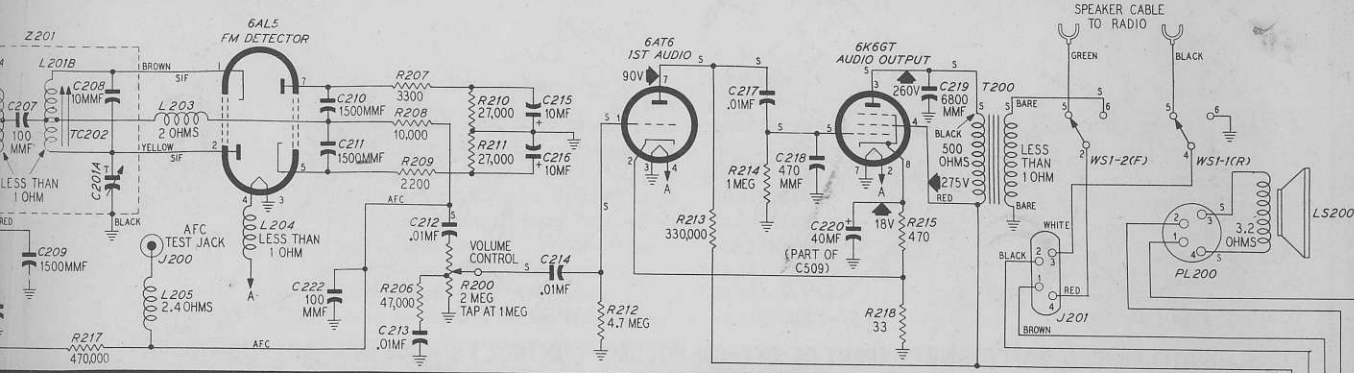


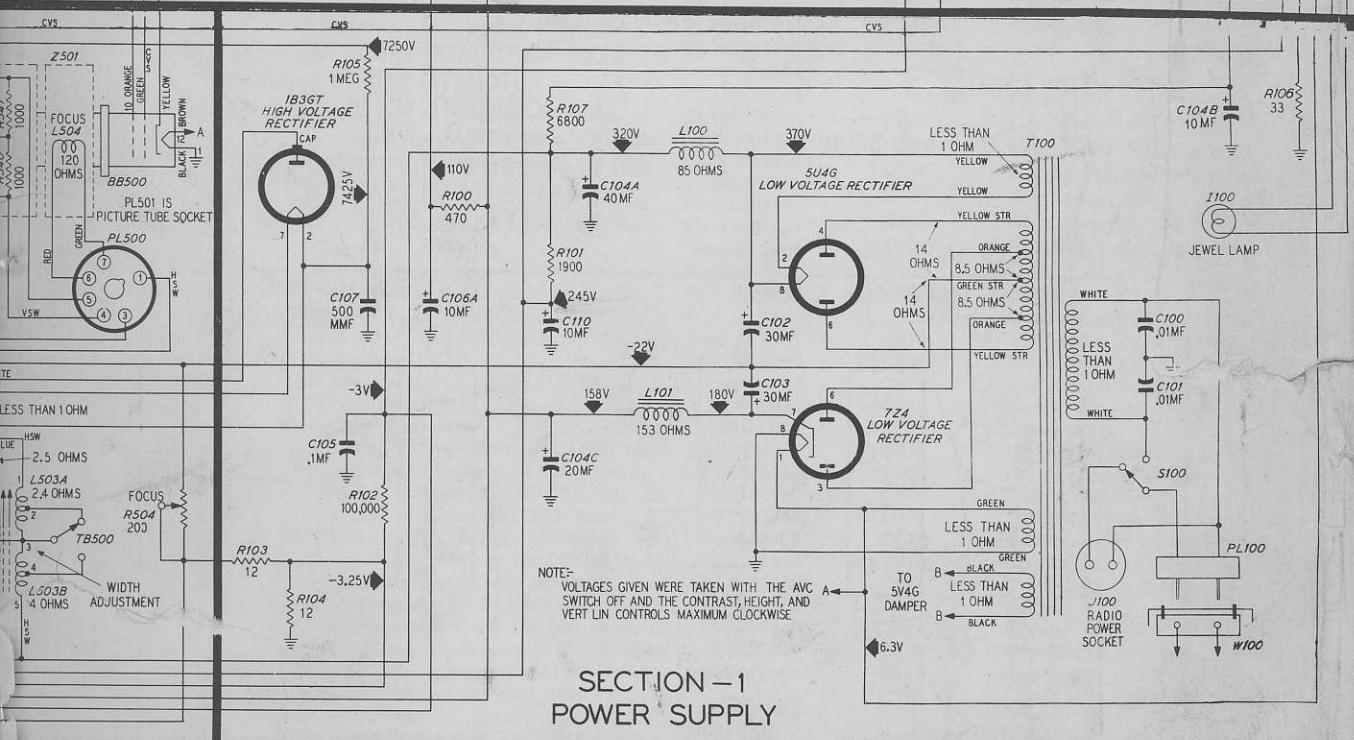
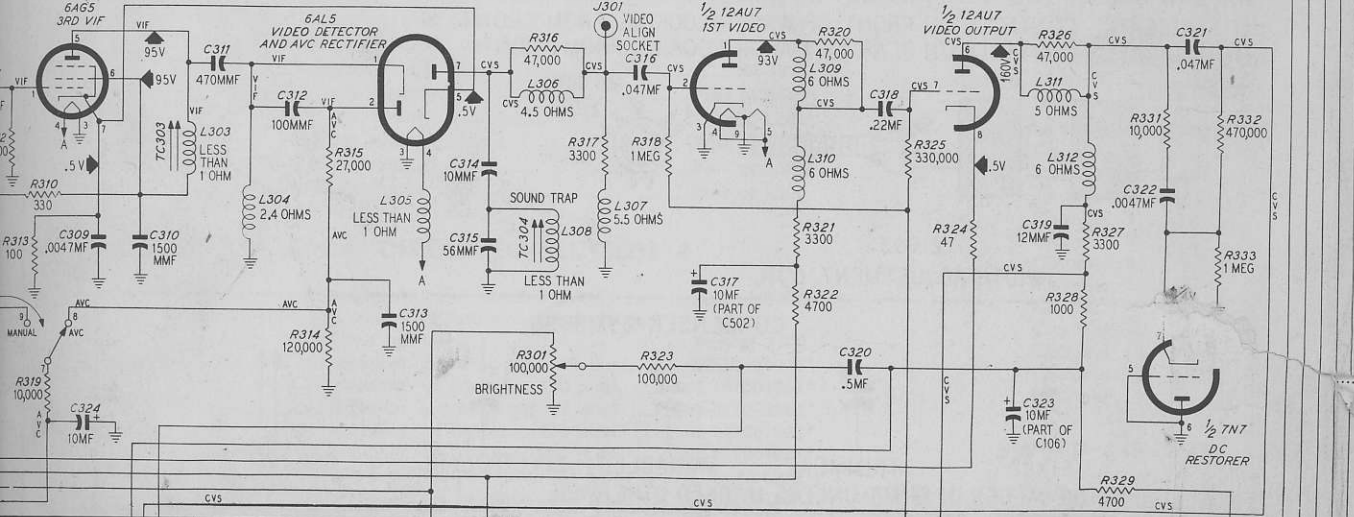
Figure 68. Complete Sectionalized Schematic Diagram, Group 1A

SECTION II—TELEVISION (BY MODELS) GROUP 1A

SECTION—2 SOUND



SECTION-3 VIDEO



SECTION-1 POWER SUPPLY

Service Part No.

-45-9519
-45-9520
- Part of L401A
-32-4115-2
-32-4115-3
-32-4115-4
-32-4115-5
-32-4115-6
-32-4115-7
-32-4115-8
-32-4115-9
-32-4115-10
-32-4115-11
-32-4115-12
-32-4115-13
-32-4222-2
-32-4222-3
-32-4222-4
-32-4222-5
-32-4222-6
-32-4222-7
-32-4222-8
-32-4222-9
-32-4222-10
-32-4222-11
-32-4222-12
-32-4222-13
-61-0122*
-61-0122*
-30-2570-10
- Part of C502
- Part of C502
-61-0122*
-61-0109*
-61-0109*
-45-3500-5*
-61-0120*
-60-10825401*
-30-2570-16
- Part of C509
- Part of C509
-61-0113*
-61-0113*
- mf. 61-0113*
-60-10685401*
-61-0113*
-61-0113*
-61-0120*
-60-10565307*
-61-0120*
-60-10685401*
- Part of C104
-30-4651-3
-30-4651-3
-45-3500-10*
- Part of C106
-27-6180
-27-6174-4
- TP-.....Part of Z500