

DUMONT
MODEL RA-111A

DUMONT MODEL RA-111A "GUILFORD"

TRADE NAME	Dumont Model RA-111A "Guilford" or "Putnam"		
MANUFACTURER	Allen B. Dumont Laboratories, 2 Main Ave., Passiac, New Jersey		
TYPE SET	Television Receiver		
TUBES	Twenty Five		
POWER SUPPLY	110-120 Volts AC-60 Cycle	RATING	2.1 Amp. at 117 Volts AC
TUNING RANGE	44 thru 216MC (Continuous Tuning)		

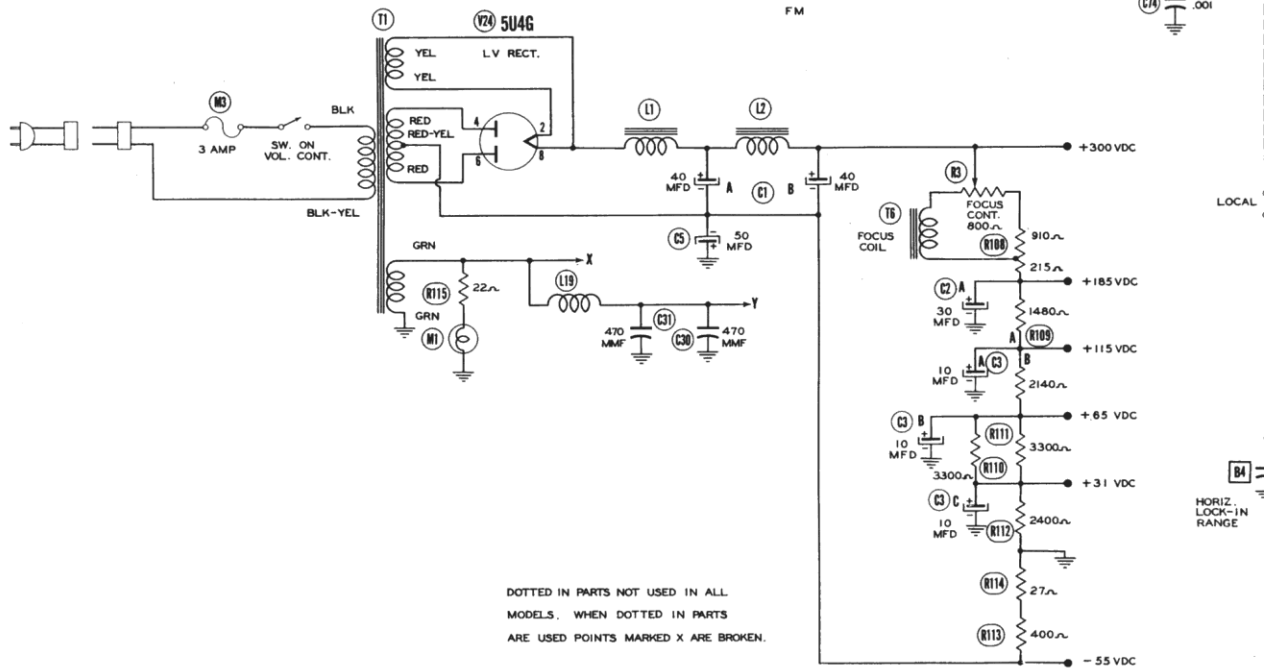
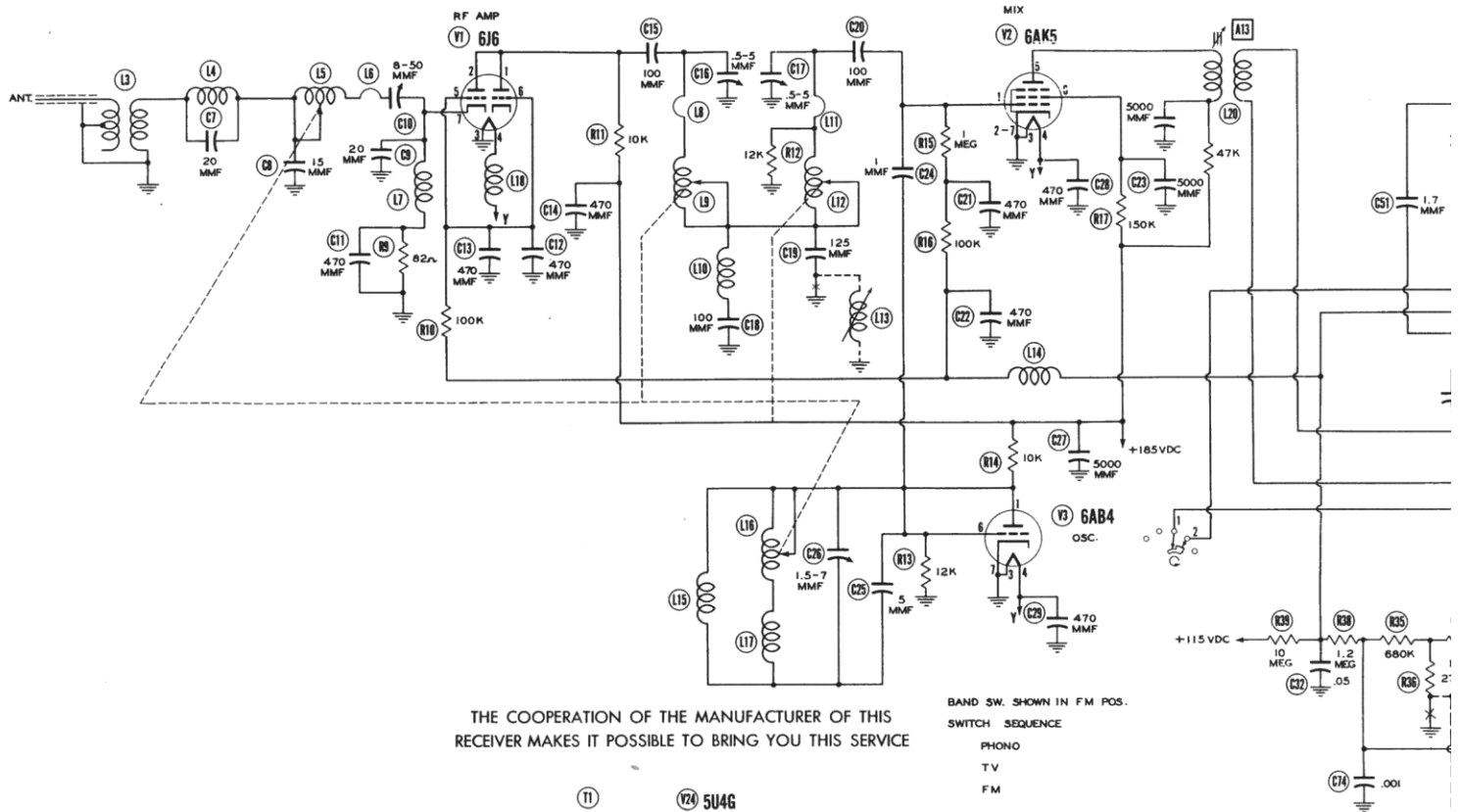
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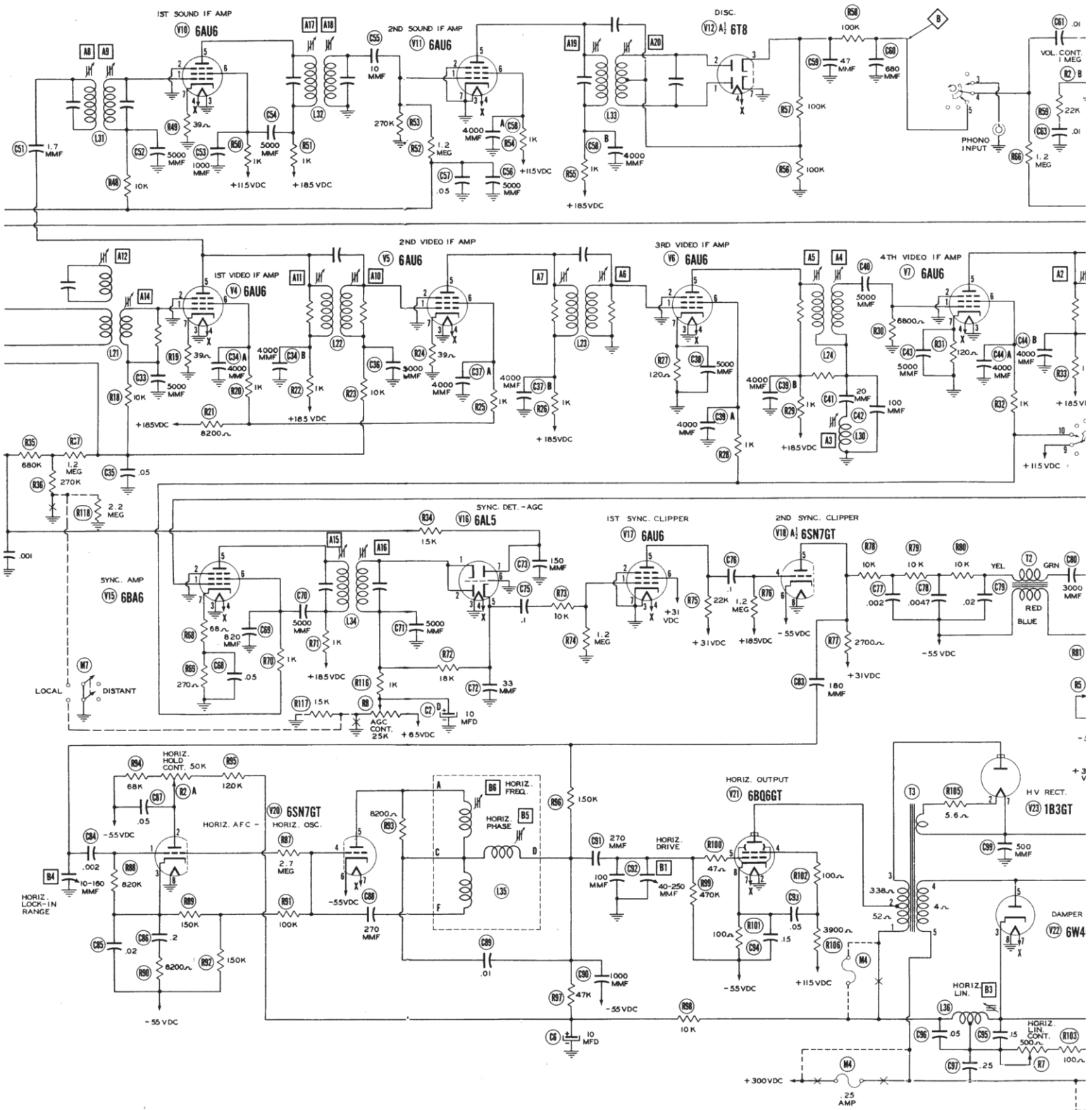
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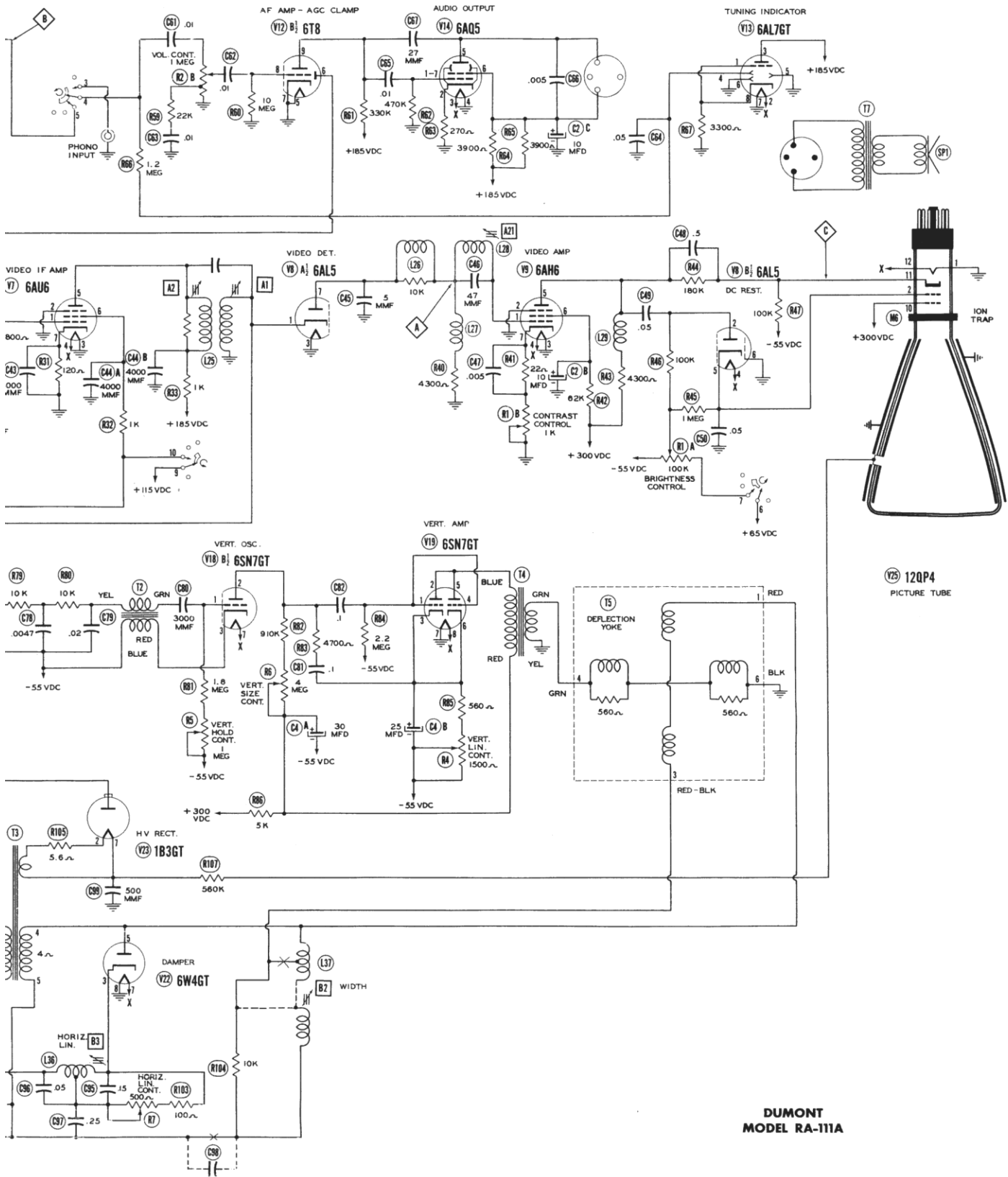
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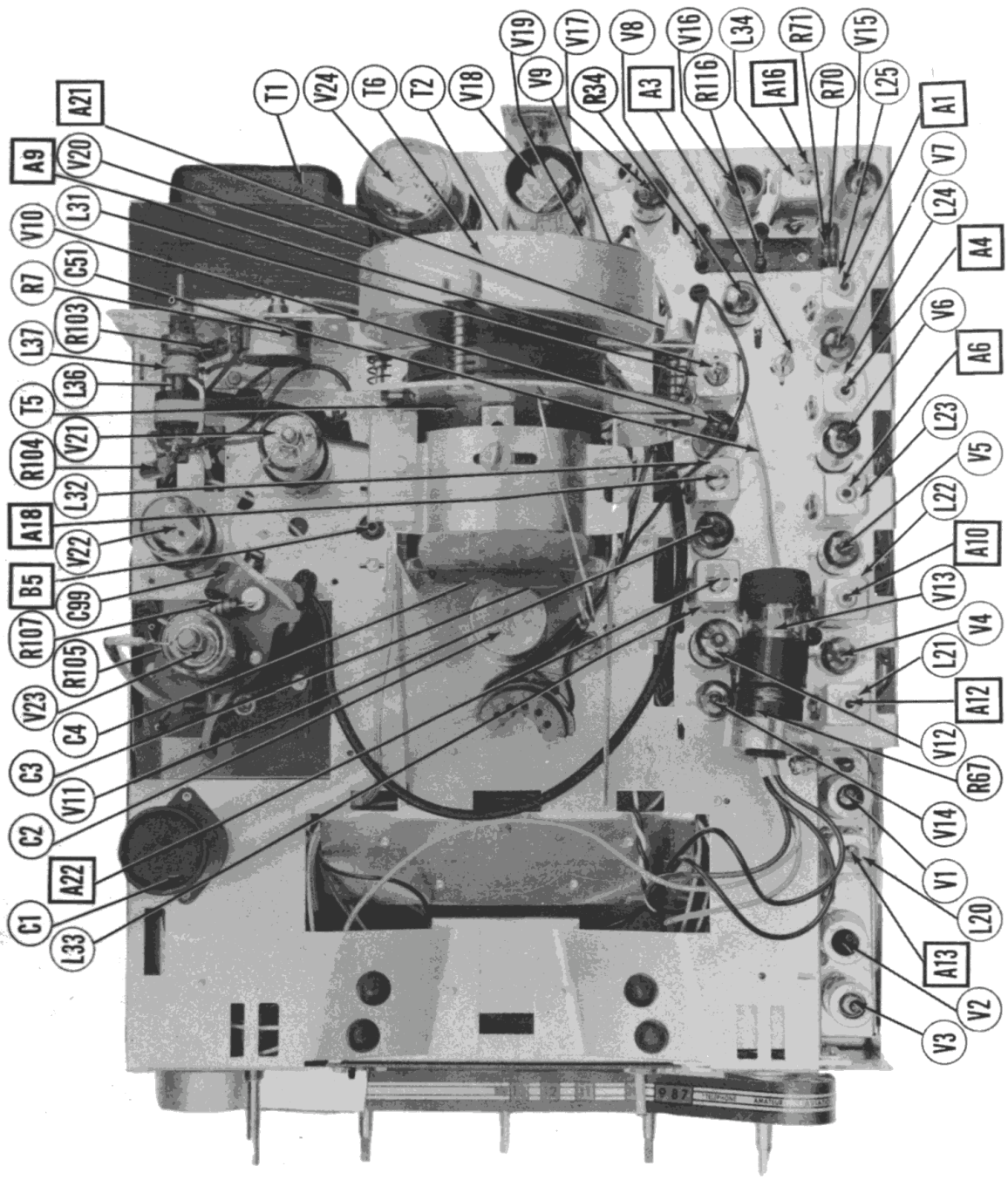






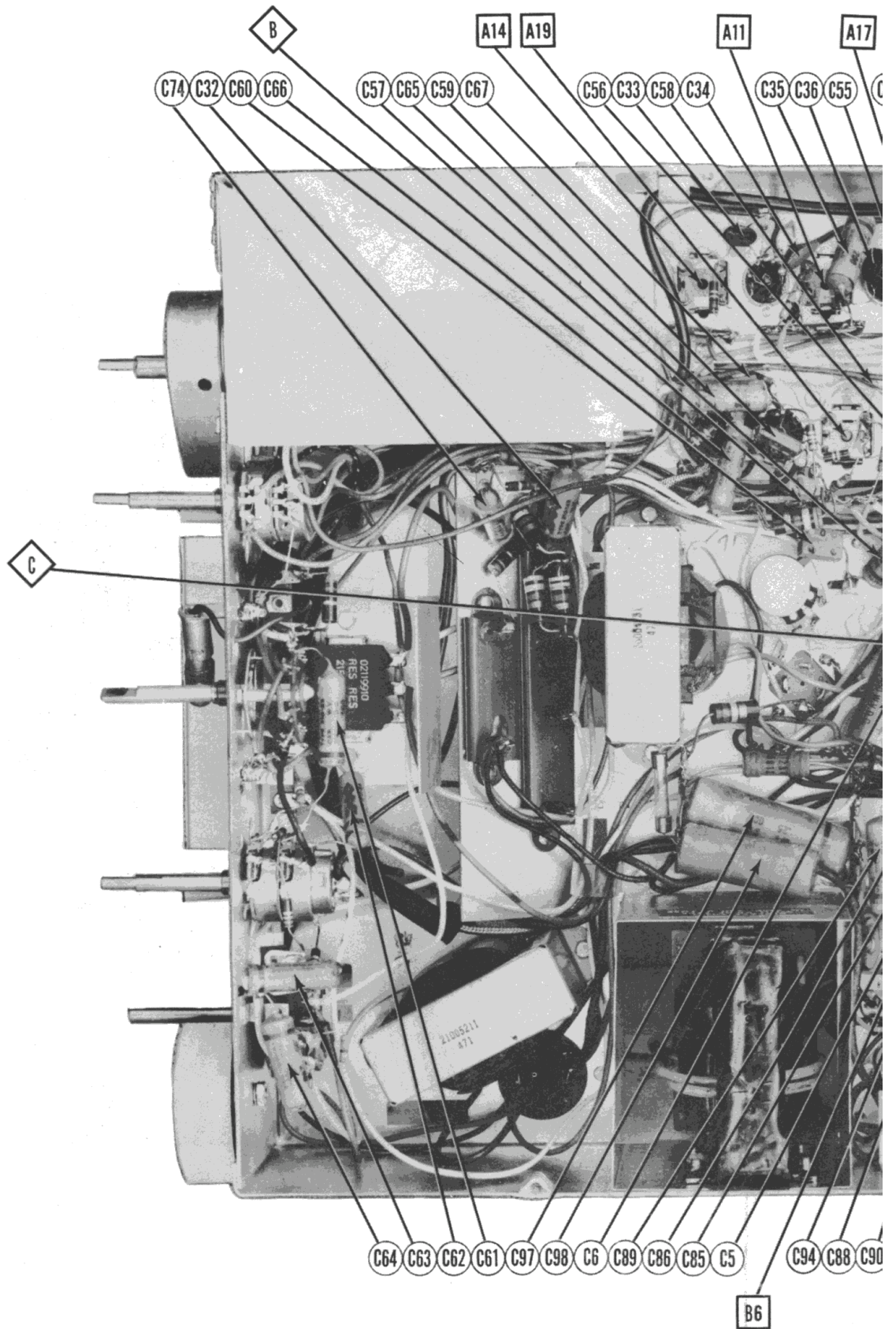
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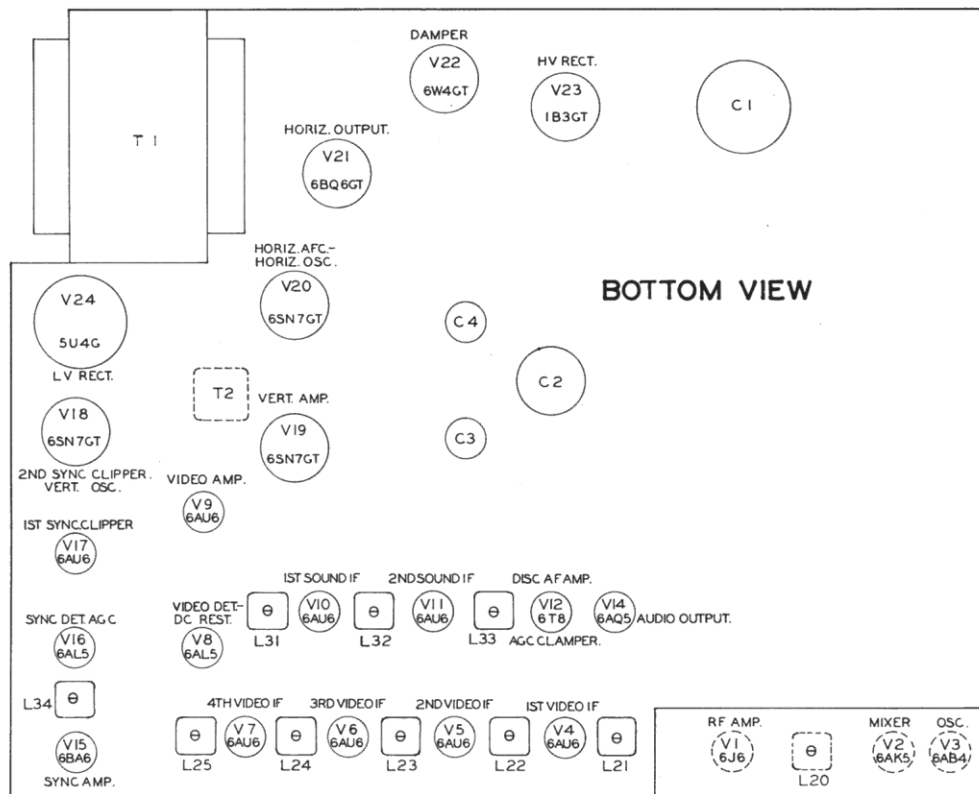
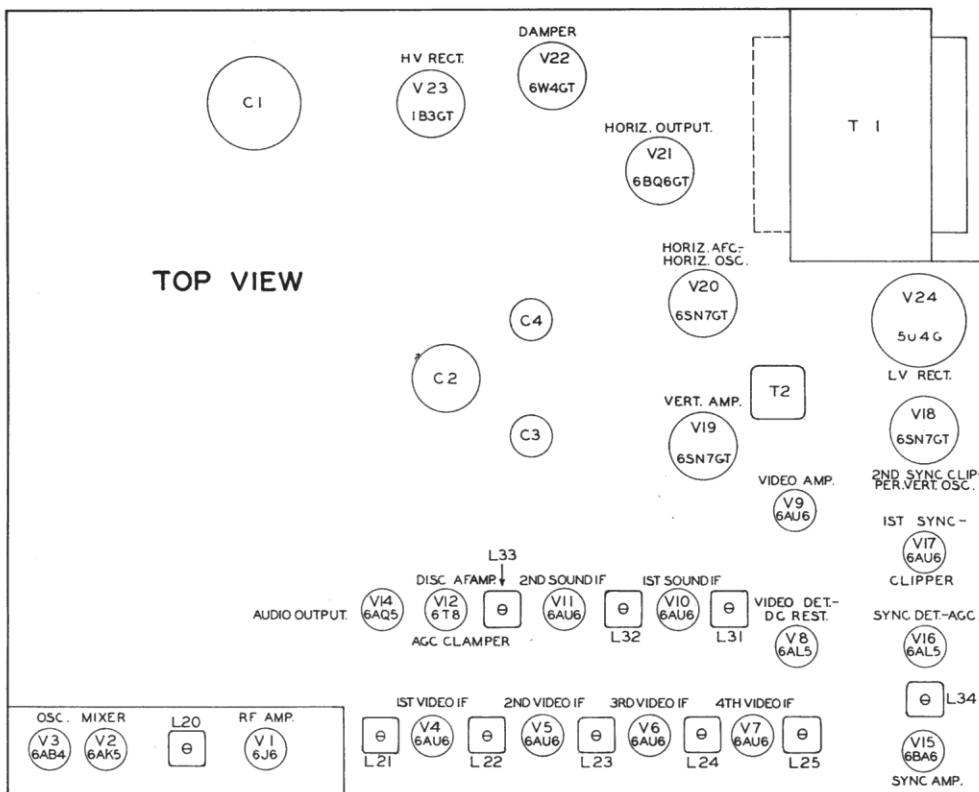


CHASSIS TOP VIEW

DUMONT
MODEL RA-111A



CHASSIS BOTTOM VIEW-CAPACITC



TUBE PLACEMENT CHART

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

To eliminate the high voltage shock hazard remove the damper tube (V22) from its socket.

VIDEO IF ALIGNMENT

Remove the local oscillator tube V3 from its socket to prevent erroneous indications.
 Remove the sync amplifier tube V17 and replace with a 6AU6 with pins 3 and 4 removed.
 Turn the function switch to TV position (2nd position clockwise).
 The coupling loop in the mixer transformer L20 controls the bandwidth of the 1st stage of Video IF. This is adjusted and sealed in position at the factory and should not be touched, except when the RF tuner is replaced, in which case it should be adjusted for response curve as in step 8 of alignment.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
1. 100MMF	High side to pin 1 (Grid) of 6AU6 (V7). Low side to chassis.	24MC (10MC SWP)	21.9MC 22.4MC 22.9MC 25.65MC 26.4MC	Any	Vert. Amp. to Point A Low side to chassis.	A1, A2,	Adjust for response curve similar to figure 1 with markers as shown.
2. 100MMF	High side to pin 1 (Grid) of 6AU6 (V6). Low side to chassis.	Not used	21.9MC (400 % Mod.)	"	Vert. Amp. thru detector probe as shown in figure 10. to pin 5 (plate) of 6AU6 (V7). Low side to chassis.	A3	Adjust for MINIMUM 400 % indication on scope.
3. 100MMF	"	24MC (10MC SWP)	22.4MC 22.9MC 25.65MC 26.4MC	"	"	A4, A5	Adjust for response curve similar to figure 2 with marker as shown.
4. 100MMF	High side to pin 1 (Grid) of 6AU6 (V5). Low side to chassis.	"	21.9MC 22.4MC 22.9MC 25.65MC 26.4MC	"	Vert. Amp. thru detector probe to pin 5 (plate) of 6AU6 (V6). Low side to chassis.	A6, A7	Adjust for response curve similar to figure 3 with markers as shown.
5. 100MMF	High side to pin 1 (Grid) of 6AU6 (V4). Low side to chassis.	21.9MC (1MC SWP)	21.8MC 21.9MC 22MC	"	High side thru detector probe to pin 5 (plate) of 6AU6 (V10). Low side to chassis.	A8, A9	Adjust for response curve similar to figure 4 with markers as shown.
6. 100MMF	"	24MC (10MC SWP)	21.9MC 22.4MC 22.9MC 25.65MC 26.4MC	"	High side thru detector probe to pin 5 (plate) of 6AU6 (V5). Low side to chassis.	A10, A11	Adjust for response curve similar to figure 5 with markers as shown.
7. 100MMF	High side to ungrounded tube shield floating over mixer tube (V2). Low side to chassis.	Not used	27.9MC (400 % Mod.)	"	High side thru detector probe to pin 5 (plate) of 6AU6 (V4). Low side to chassis.	A12	Adjust for MINIMUM 400 % indication on scope.
8. 100MMF	"	24MC (10MC SWP)	21.9MC 22.4MC 22.9MC 25.65MC 26.4MC	"	Vert. Amp. thru detector probe to pin 5 (plate) of 6AU6 (V4). Low side to chassis.	A13, A14	Adjust for response curve similar to figure 6 with markers as shown.
9. 100MMF	High side to pin 1 (Grid) of 6AU6 (V7). Low side to chassis.	24MC (2MC SWP)	25.65MC 26.4MC	"	Vert. Amp. to pin 1 (Grid) of 6AU6 (V17). Low side to chassis.	A15, A16	Adjust for response curve similar to figure 7 with markers as shown.

SOUND IF ALIGNMENT

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
10. 100MMF	High side to pin 1 (Grid) of 6AU6 (V10). Low side to chassis.	21.9MC (1MC SWP)	21.8MC 21.9MC 22MC	Any	Vert. Amp. thru detector probe to pin 5 (plate) of 6AU6 (V11). Low side to chassis.	A17, A18	Adjust for maximum amplitude and symmetry as per figure 8.
11. 100MMF	"	"	"	"	Vert. Amp. to Point B Low side to chassis.	A19, A20	Adjust A20 to place 21.9MC at center of diagonal line as per figure 9. Adjust A19 for maximum amplitude and straightness of diagonal line.

4.5MC TRAP ADJUSTMENT

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
12. 100MMF	High side to pin 7 (plate) of 6AL5 (V8). Low side to chassis.	Not used	4.5MC (400 % Mod.)	Any	Vert. Amp. thru detector probe to point C. Low side to chassis.	A21	Adjust for minimum 400 % indication on scope. After alignment is complete, tune in a test pattern and adjust for maximum vertical wedge definition.

THE RF TUNER PORTION OF THIS RECEIVER HAS BEEN ALIGNED AT THE FACTORY AND IS VERY STABLE AND WILL NOT NORMALLY REQUIRE ADJUSTMENT IN THE FIELD.

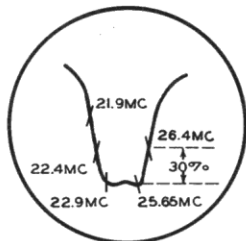


FIG. 1

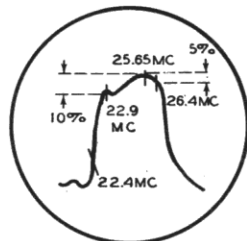


FIG. 2

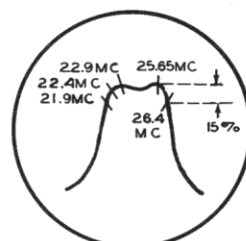


FIG. 3

ALIGNMENT INSTRUCTIONS (CONT.)



FIG. 4

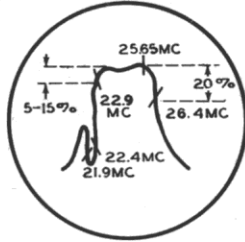


FIG. 5

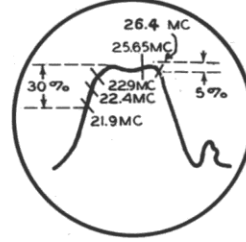


FIG. 6

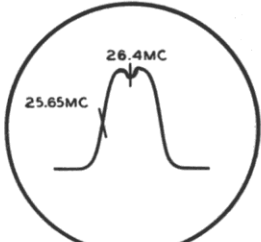


FIG. 7

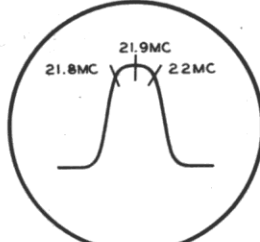


FIG. 8

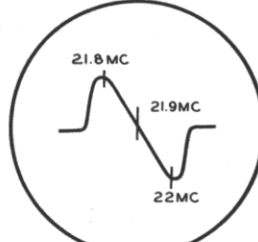


FIG. 9

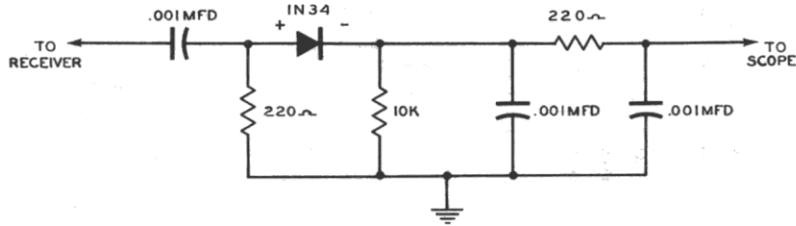
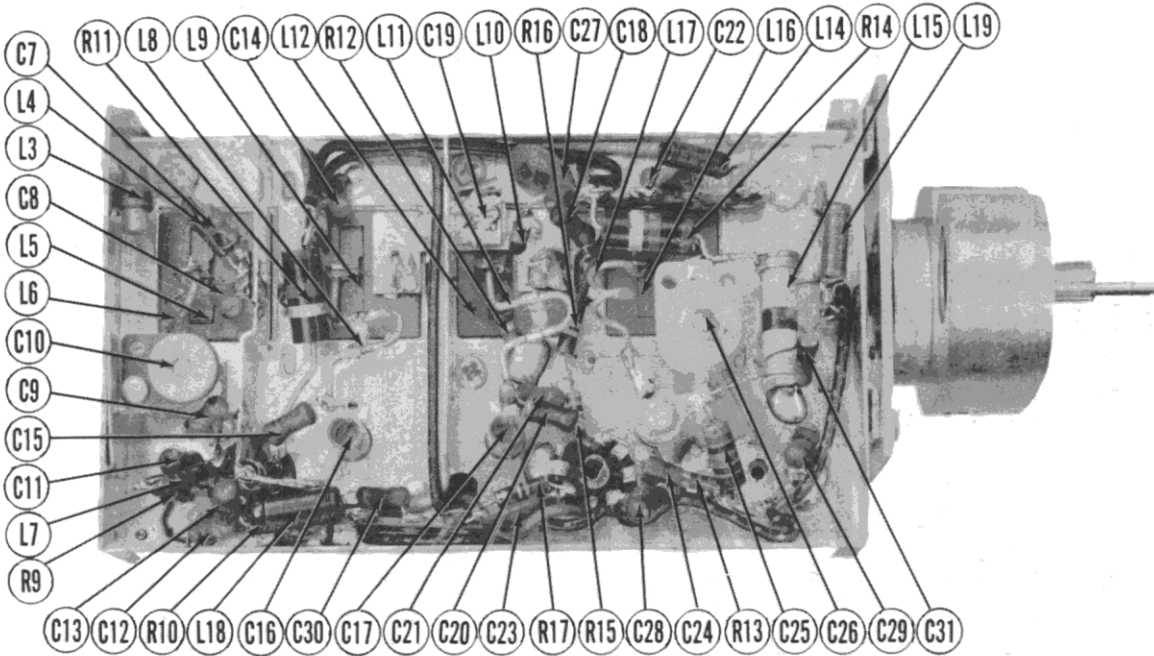


FIG. 10

DUMONT
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RF TUNER

VOLTAGE AND RESISTANCE MEASUREMENTS

VOLTAGE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	6B6	90VDC	90VDC	0V.	6.3VAC	-2VDC	-2VDC	.8VDC		
V 2	6AK5	-2VDC	0V.	0V.	6.3VAC	55VDC	60VDC	0V.		
V 3	6AB4	130VDC	0V.	0V.	6.3VAC	0V.	§-4.4VDC	0V.		
V 4	6AU6	-4VDC	0V.	0V.	6.3VAC	185VDC	135VDC	.3VDC		
V 5	6AU6	-4VDC	0V.	0V.	6.3VAC	185VDC	135VDC	.5VDC		
V 6	6AU6	0V.	0V.	0V.	6.3VAC	175VDC	115VDC	.9VDC		
V 7	6AU6	0V.	0V.	0V.	6.3VAC	185VDC	115VDC	1VDC		
V 8	6AL5	0V.	-50VDC	0V.	6.3VAC	-30VDC	0V.	-6VDC		
V 9	6AH6	-6VDC	0V.	0V.	6.3VAC	280VDC	250VDC	4.8VDC		
V 10	6AU6	-4VDC	0V.	0V.	6.3VAC	185VDC	115VDC	.4VDC		
V 11	6AU6	-3.4VDC	0V.	0V.	6.3VAC	185VDC	115VDC	0V.		
V 12	6T8	-2VDC	-2VDC	.3VDC	6.3VAC	0V.	-4VDC	0V.	-.6VDC	65VDC
V 13	6AL7GT	.8VDC	6.3VAC	160VDC	0V.	0V.	0V.	.8VDC		
V 14	6AQ5	0V.	6.2VDC	6.3VAC	0V.	130VDC	135VDC	0V.		
V 15	6BA6	0V.	0V.	0V.	6.3VAC	180VDC	115VDC	3VDC		
V 16	6AL5	60VDC	60VDC	2VDC	6.3VAC	70VDC	0V.	-1VDC		
V 17	6AU6	-3.8VDC	0V.	0V.	6.3VAC	25VDC	32VDC	0V.		
V 18	6SN7GT	-80VDC	110VDC	-55VDC	-55VDC	15VDC	-55VDC	6.3VAC	0V.	
V 19	6SN7GT	-90VDC	2VDC	-40VDC	-40VDC	280VDC	-45VDC	0V.	6.3VAC	
V 20	6SN7GT	-30VDC	280VDC	-45VDC	-30VDC	280VDC	-45VDC	0V.		
V 21	6SN7GT	-65VDC	45VDC	-75VDC	-130VDC	210VDC	-55VDC	6.3VAC	0V.	TOP CAP
V 22	6W4GT	0V.	0V.	0V.	70VDC	-57VDC	-57VDC	6.3VAC	-45VDC	*
V 23	6W4GT	0V.	0V.	370VDC	370VDC	300VDC	370VDC	6.3VAC	0V.	
V 24	6B3GT									
V 25	5U4G	0V.	325VDC	0V.	320VAC	0V.	320VAC	0V.	325VDC	
V 25	12QP4	0V.	-30VDC	300VDC	65VDC	6.3VAC				

* DO NOT MEASURE.

§ TAKEN WITH VACUUM TUBE VOLTMETER.

* DO NOT MEASURE.

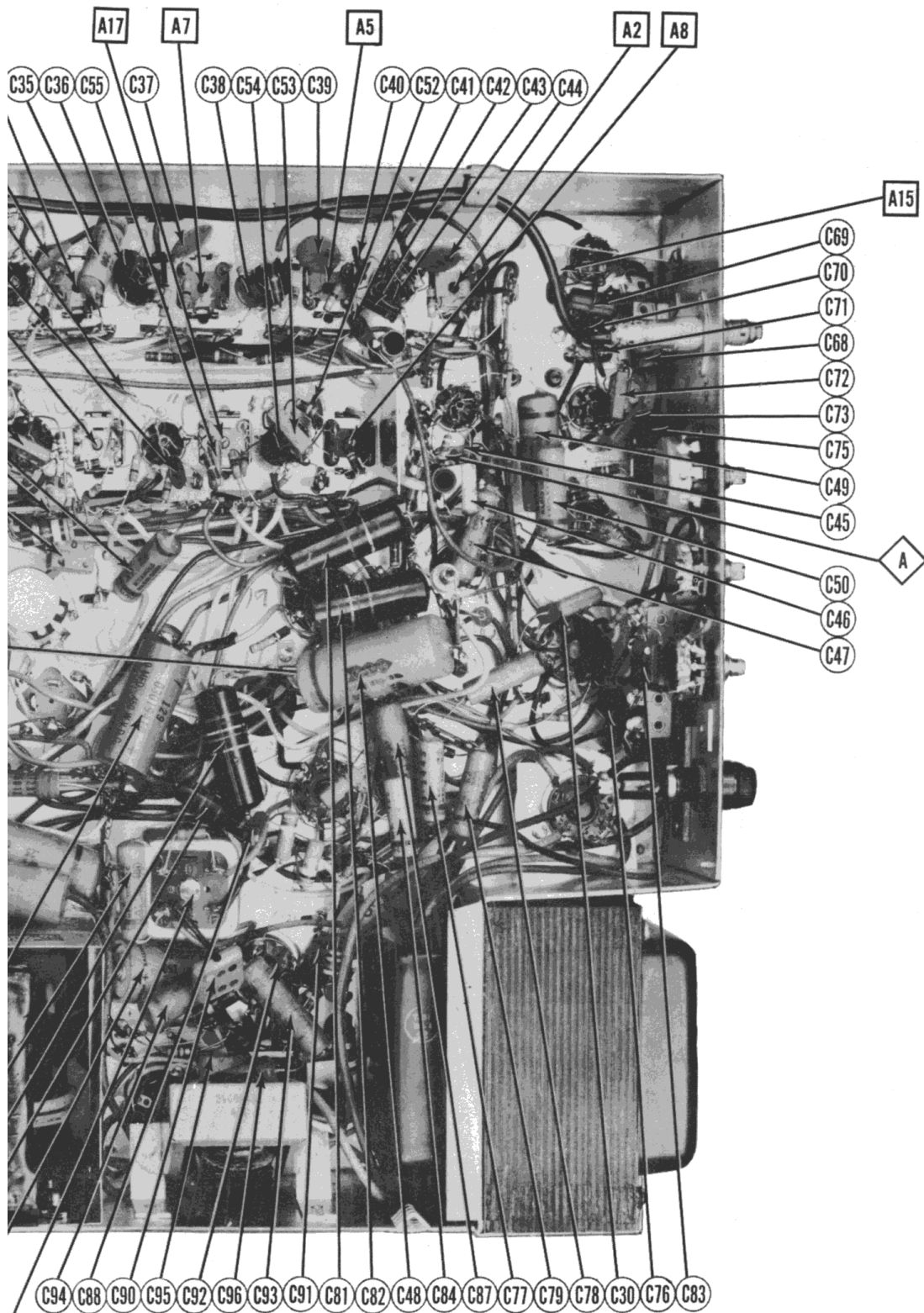
RESISTANCE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	6B6	11KΩ	11KΩ	0Ω	.1Ω	1.5 Meg.	1.5 Meg.	82Ω		
V 2	6AK5	2.5 Meg.	10Ω	0Ω	.1Ω	148KΩ	150KΩ	0Ω		
V 3	6AB4	11KΩ	Inf.	0Ω	.1Ω	Inf.	12KΩ	0Ω		
V 4	6AU6	1.5 Meg.	0Ω	0Ω	.1Ω	11.8KΩ	110KΩ	39Ω		
V 5	6AU6	1.5 Meg.	0Ω	0Ω	.1Ω	11.8KΩ	110KΩ	39Ω		
V 6	6AU6	.7Ω	0Ω	0Ω	.1Ω	13.5KΩ	13.2KΩ	120Ω		
V 7	6AU6	6.8KΩ	0Ω	0Ω	.1Ω	11.8KΩ	13.2KΩ	120Ω		
V 8	6AL5	.5Ω	100KΩ	0Ω	.1Ω	1 Meg.	0Ω	4.3KΩ		
V 9	6AH6	4.3KΩ	0Ω	0Ω	.1Ω	14.4KΩ	166KΩ	1000Ω		
V 10	6AU6	800KΩ	0Ω	0Ω	.1Ω	11.8KΩ	13.2KΩ	39Ω		
V 11	6AU6	270KΩ	0Ω	0Ω	.1Ω	11.8KΩ	13.2KΩ	0Ω		
V 12	6T8	100KΩ	100KΩ	200KΩ	.1Ω	0Ω	1.7 Meg.	0Ω	10 Meg.	1350KΩ
V 13	6AL7GT	3.3KΩ	.1Ω	1800Ω	1.5 Meg.	0Ω	0Ω	0Ω	3.3KΩ	
V 14	6AQ5	470KΩ	270Ω	.1Ω	0Ω	13KΩ	12.7KΩ	470KΩ		
V 15	6BA6	.5Ω	0Ω	0Ω	.1Ω	11.8KΩ	13.2KΩ	340Ω		
V 16	6AL5	4.5KΩ	4.5KΩ	0Ω	.1Ω	19KΩ	0Ω	800KΩ		
V 17	6AU6	1.2 Meg.	0Ω	0Ω	.1Ω	128KΩ	15.9KΩ	0Ω		
V 18	6SN7GT	1.7 Meg.	110KΩ	590Ω	1.2 Meg.	18.6KΩ	430Ω	.1Ω	0Ω	
V 19	6SN7GT	2.2 Meg.	14.9 Meg.	2.5KΩ	2.2 Meg.	2.5KΩ	1000Ω	0Ω	.1Ω	
V 20	6SN7GT	850KΩ	#180KΩ	300KΩ	250KΩ	#60KΩ	430Ω	.1Ω	0Ω	TOP CAP #80Ω
V 21	6BQ6GT	Inf.	0Ω	Inf.	16.2KΩ	470KΩ	470KΩ	.1Ω	530Ω	TOP CAP #400Ω
V 22	6W4GT	Inf.	Inf.	160KΩ	#2.9Ω	180Ω	#2.9Ω	.1Ω	0Ω	
V 23	1B3GT	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	
V 24	5U4G	Inf.	8000Ω	Inf.	450Ω	Inf.	450Ω	Inf.	8000Ω	
V 25	12QP4	0Ω	1 Meg.	170Ω	80KΩ	.1Ω				

† MEASURED FROM PIN 8 OF V24.

MEASURED FROM PIN 3 OF V22.

1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltage measured at 1,000 ohms.
2. Pin numbers are counted in a clockwise direction on bottom of socket.
3. Measured values are from socket pin to common negative unless otherwise stated.
4. Line voltage maintained at 117 volts for voltage readings.
5. Front panels controls set at minimum.
6. Where readings may vary according to the setting of the service controls, both minimum and maximum readings are given.



APACITOR AND ALIGNMENT IDENTIFICATION

HORIZONTAL OSCILLATOR ADJUSTMENTS

Turn the horizontal locking range trimmer (B4) fully clockwise. Turn the horizontal waveform slug B5 fully counter-clockwise and then four turns clockwise.

Turn the horizontal hold control fully clockwise and adjust horizontal frequency slug B6 until the picture "syncs."

Connect the vertical input lead of an oscilloscope to terminal C of L35. The pattern on the scope should be similar figure 11. Adjust B5 until the broad and narrow peaks are of the same amplitude.

Remove the scope and with the hold control still fully clockwise, adjust B6 until picture is phased as far to the right as possible without instability or "geartooth" effect appearing. Some blanking must appear at left side of picture.

Check to see if picture holds "sync" while turning the hold control fully counter-clockwise. If it does not hold sync over the full range of the control it may be necessary to repeat this procedure. Momentarily remove signal by tuning to another channel and back to original again. It is normal in this circuit to lose "sync" when this is done.

There should be 4 or 5 slanting horizontal blanking bars visible. If there are more than 5 bars present, turn B4 slightly clockwise. If less than 4 bars are present, turn B5 slightly counter-clockwise. Momentarily remove signal and recheck number of bars present at the pull-in point. Repeat this procedure until 4 or 5 bars are present just before synchronization occurs.

Turn the horizontal hold control fully clockwise. The picture should be just out of synchronization to the extent that the horizontal blanking bar appears as a single vertical or diagonal bar in the picture. Retouch B6 until this condition exists.

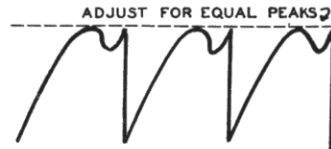
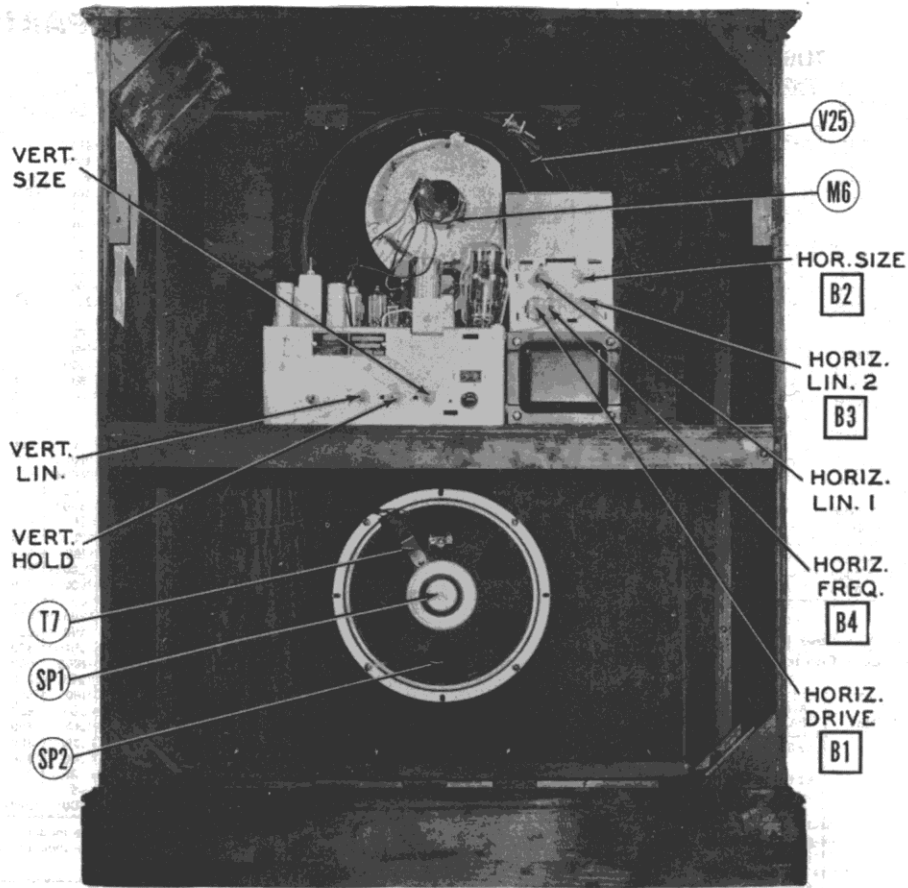


FIG. 11

AGC ADJUSTMENT

Remove the AGC detector tube V16 from its socket. Connect the DC probe of a VTVM to pin 2 of V16 and adjust the AGC control R8 so that a reading of 18 volts is made.



CABINET-REAR VIEW

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HORIZONTAL LINEARITY, DRIVE AND SIZE ADJUSTMENTS

Turn the set on and tune in a TV station preferably a test pattern, and sync picture if possible with horizontal hold.

Turn the horizontal drive trimmer (B1) clockwise as far as possible without crowding the right side of the picture.

Adjust the horizontal size slug (B2) until picture fills the mask horizontally.

Turn the horizontal linearity (2) slug (B3) all the way out of coil. Turn the horizontal linearity (1) control R7 fully counter-clockwise. Adjust the horizontal hold control until the leading edge of the sync pulse is at the extreme right side of side of the raster.

Turn horizontal linearity B3 in until "squeezing" of the right edge of picture is observed. Adjust horizontal linearity control R7 for best linearity from left to right. Turn linearity slug B3 in another turn or until "squeezing" is just seen in the right side of the picture. A slight adjustment of B1 may be necessary for optimum results.

PARTS LIST AND DESCRIP

TUBES (SYLVANIA or Equivalent)

CAPACITORS

ITEM No.	USE	REPLACEMENT DATA			RMA BASE TYPE	NOTES
		DUMONT PART No.	STANDARD REPLACEMENT			
V1	RF Amp.	25000190	6J6	7BF		
V2	Mixer	25000180	6AK5	7BD		
V3	Oscillator	25001760	6AB4	5CE		
V4	1st Video IF	25000050	6AU6	7BK		
V5	2nd Video IF	25000050	6AU6	7BK		
V6	3rd Video IF	25000050	6AU6	7BK		
V7	4th Video IF	25000050	6AU6	7BK		
V8	Video Det. -DC Rest.	25000020	6AL5	6BT		
V9	Video Amp.	25001510	6AH6	7BK		
V10	1st Sound IF	25000050	6AU6	7BK		
V11	2nd Sound IF	25000050	6AU6	7BK		
V12	Disc. -AF Amp. -AGC Clamp.	25001820	6T8	9E		
V13	Tuning Indicator	25000200	6AL7GT	8CH		
V14	Audio Output	25000340	6AQ5	7BZ		
V15	Sync. Amp.	25000240	6BA6	7BK		
V16	Sync. Det. -AGC	25000020	6AL5	6BT		
V17	1st Sync. Clipper	25000050	6AU6	7BK		
V18	2nd Sync. Clipper					
V19	-Vert. Osc.	25000110	6SN7GT	8BD		
V20	Vert. Amp.	25000110	6SN7GT	8BD		
V21	Hor. AFC -Hor. Osc.	25000110	6SN7GT	8BD		
V22	Hor. Output	25001830	6BQ6GT	6AM		
V23	Damper	25000830	6W4GT	4CG		
V24	HV Rect.	25000150	1B3GT	3C		
V25	LV Rect.	25000060	5U4G	5T		
V25	Picture Tube	25000330	12QP4	12D		

CAPACITORS

Capacity values given in the rating column are in mfd. for Electrolytic and Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING		REPLACEMENT DATA					IDENTIFICATION CODES AND INSTALLATION NOTES	
	CAP.	VOLT	DUMONT PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.		SPRAGUE PART No.
C1A	40	450	03014130	AF88J		UP4445		TVL-2764	▲ Filter
C2A	30	450	03018450	AFH8422J		UPT31145		TVL-4766	▲ Filter
B	10	450							▲ Filter
C	10	450							■ V. Amp. Screen
D	10	250							▲ Output Decoup.
C3A	10	450	03018440	AFH222J		UPI1145		TVL-3776	Decoupling
B	10	350							▲ Filter
C	10	250							Filter
C4A	30	450	03019400	AFH42J8B		UP3045V		TVL-1720	■ Decoupling
B	25	50				2		TVA-1306	▲ Vert. Output Cath.
C5	50	150	03018430	PRS250/40		BR5015A		TVA-1414	Filter
C6	10	450	03019410	PRS450/10		BR1045A		TVA-1705	Decoupling
C7	20		03015790	SI20KNPO	TCZ-20		NPOK-20		Fixed Trimmer
C8	15		03012050	SI15KNPO	TCZ-15		NPOK-15		Fixed Trimmer
C9	20		03015790	SI20KNPO	TCZ-20		NPOK-20		Fixed Trimmer
C11	8-50		03017500				557-N750-8-50		Variable Trimmer
C11	470		03016470	GP470M	D6-471		GP2K-470		RF Cath. Bypass
C12	470		03016470	GP470M	D6-471		GP2K-470		RF Grid Bypass
C13	470		03016470	GP470M	D6-471		GP2K-470		RF Grid Bypass
C14	470		03016470	GP470M	D6-471		GP2K-470		RF Bypass
C15	100		03016700	GP100M	D6-101		GPIK-100		RF Coupling
C16	.5-5		03016650				503-08-.5-5		Variable Trimmer
C17	.5-5		03016650				503-08-.5-5		Variable Trimmer
C18	100		03016700	GP100M	D6-101		GPIK-100		Fixed Trimmer
C19	125		03018020						Fixed Trimmer
C20	100		03016700	GP100M	D6-101		GPIK-100		RF Coupling
C21	470		03016470	GP470M	D6-471		GP2K-470		AGC Filter
C22	470		03016470	GP470M	D6-471		GP2K-470		AGC Filter
C23	5000		03015610	BPD-005	DD-502		811-005	29C1	Mixer Screen
C24	1		03012150		TCZ-1				Osc. Coupling
C25	5		03014730	SI5DNPO	TCZ-4.7		NPOK-5		Osc. Grid Cap.
C26	1.5-7		03016870				TS2A-N300-1.5-7		Variable Trimmer
C27	5000		03015610	BPD-005	DD-502		811-005	29C1	RF Bypass
C28	470		03016470	GP470M	D6-471		GP2K-470		Mixer Fil. Bypass
C29	470		03016470	GP470M	D6-471		GP2K-470		Osc. Fil. Bypass
C30	470		03016470	GP470M	D6-471		GP2K-470		Filament Bypass
C31	470		03016470	GP470M	D6-471		GP2K-470		Filament Bypass
C32	.05	200	03000950	P288-05	DF-503		PTE455	TM-15-2	AGC Filter
C33	5000		03015610	BPD-005	DD-502		ID5D5	29C1	AGC Filter
C34A	4000		03017790	BPD-2x004	DD-2-502		ID5D4	882-2x004	1st V. IF Screen
B	4000						ID5D4		1st V. IF Plate Dec.
C35	.05	2.0	03000950	P288-05	DF-503		PTE455	TM-15-2	AGC Filter
C36	5000		03015610	BPD-005	DD-502		ID5D5	29C1	AGC Filter
C37A	4000		03017790	BPD-2x004	DD-2-502		ID5D4	882-2x004	2nd V. IF Screen
B	4000						ID5D4	36C2	2nd V. IF Plate Dec.
C38	5000		03015610	BPD-005	DD-502		ID5D5	29C1	3rd V. IF Cath.
C39A	4000		03017790	BPD-2x004	DD-2-502		ID5D4	882-2x004	3rd V. IF Screen
B	4000						ID5D4	36C2	3rd V. IF Plate Dec.
C40	5000		03015610	BPD-005	DD-502		ID5D5	29C1	IF Coupling
C41	20	500	03055000	TCZ-20	5R5Q2		NPOM-20	MS-42	Fixed Trimmer
C42	100	500	03055170	1469-0001	TCZ-100		5R5T1	NPOM-100	Fixed Trimmer
C43	5000		03015610	BPD-005	DD-502		ID5D5	811-005	4th V. IF Cath.
C44A	4000		03017790	BPD-2x004	DD-2-502		ID5D4	882-2x004	4th V. IF Screen
B	4000						ID5D4	36C2	4th V. IF Plate Dec.
C45	5	500	03055500	1469-00005	TCZ-4.7		5R5V5	MS-55	V. Diode Filter
C46	47		03012730	GP47K	TCZ-47		5R5Q5	MS-45	Fixed Trimmer
C47	.005	600	03001570	P688-005	D6-502		PTE6D5	TM-25	V. Amp. Cath.
C48	.5	400	03014260	484-5			GT4P5	TM-5-4	Video Coupling
C49	.05	600	03015370	P688-05	DF-503		PTE6S5	TM-15	Video Coupling
C50	.05	200	03000950	P288-05	DF-503		PTE455	TM-15-2	DC Res. Cath. Byp.
C51	2.5		03016897						S. IF Coupling †
C52	5000		03015610	BPD-005	DD-502		ID5D5	811-005	AVC Filter
C53	1000	500	03033180	1467-001	D6-102		1W5D1	1FM-21	1st S. IF Screen
C54	5000		03015610	BPD-005	DD-502		ID5D5	29C1	1st S. IF Plate Dec.
C55	10	500	03020000	1468-00001	D6-100		5W5Q1	MS-41	S. IF Coupling
C56	5000		03015610	BPD-005	DD-502		ID5D5	29C1	AVC Filter
C57	.05	200	03000950	P288-05	DF-503		PTE455	TM-15-2	AVC Filter

ITEM No.	RATING		REPLACEMENT DATA				COIL PART No.
	CAP.	VOLT	DUMONT PART No.	AEROVOX PART No.	CENTRALAB PART No.		
C58A	4000		03017790	BPD-2x004	DD-2-502	ID5	
B	4000					ID5	
C59	47	500	03020080	1468-00005	D6-470	5W	
C60	680	500	03020210	1468-00075	D6-681	1W5	
C61	.01	400	03014900	P488-01	D6-103	PTI	
C62	.01	400	03001450	P488-01	D6-103	PTI	
C63	.01	400	03014900	P488-01	D6-103	PTI	
C64	.05	200	03000950	P288-05	DF-503	PTI	
C65	.01	600	03012560	P688-01	D6-103	PTI	
C66	.005	600	03001570	P688-005	D6-502	PTI	
C67	27	500	03020360	1468-000025	D6-270	5W	
C68	.05	200	03000950	P288-05	DF-503	PT	
C69	820	500	03020560	1467-00075	D6-751	1W	
C70	5000		03015610	BPD-005	DD-502	ID	
C71	5000		03015610	BPD-005	DD-502	ID	
C72	33	500	03020060	1468-00004	D6-330	5W	
C73	150	500	03020140	1468-00015	D6-151	5W	
C74	.001	600	03019440	P688-001	DF-102	PT	
C75	.1	200	03014780	P288-1	D6-104	PT	
C76	.1	400	03014770	P488-1	DF-104	PT	
C77	.002	600	03014430	P688-002	D6-202	PT	
C78	.0047	400	03018640	P688-0047	D6-472	PT	
C79	.02	200	03018470	P488-02	DF-203	PT	
C80	3000	500	03033290	1467-.003	D6-302	1W	
C81	.1	600	03014820	P688-1	DF-104	PT	
C82	.1	600	03014820	P688-1	DF-104	PT	
C83	180	500	03021430	1469-0002	D6-181	5R1	
C84	.002	600	03014430	P688-002	D6-202	PT	
C85	.02	400	03018350	P488-02	DF-203	PT	
C86	.2	400	03018330	P488-22	DF-203	PT	
C87	.05	400	03019640	P488-05	DF-503	PT	
C88	270	500	03021470	1468-00025	D6-271	5W	
C89	.01	400	03003410	P488-01	D6-101	PT	
C90	1000	500	03033180	1467-001	D6-102	1W	
C91	270	500	03021470	1468-00025	D6-271	5W	
C92	100	500	03055170	1468-0001	D6-101	5W	
C93	.05	400	03019640	P488-05	DF-503	PT	
C94	.15	200	03018320	P288-15	DF-503	PT	
C95	.15	200	03018360	P288-15	DF-503	PT	
C96	.05	200	03019590	P288-05	DF-503	PT	
C97	.25	600	03019190	684-25		GT	
C98	.5	200	03002190	P288-5		GT	
C99	500	10000	03014410	HV10A	TV1-501	GT	

* Some models use .005MFD in this application.
† Some models use 1.7MMF in this application.

CONTROL

ITEM No.	RATING		REPLACEMENT DATA		
	RESISTANCE	WATTS	DUMONT PART No.	IRC PART No.	CLAROSTAT PART No.
R1A	100KΩ	1/4	01027000	Concentrikrit	RTV-97
B	1000Ω			B11-128 *	
C	Shaft End			B11-108 *	
R2A	50KΩ	1/4	01028200	Concentrikrit	RTV-96
B	1 Meg.			B13-137 X *	
C	Shaft End			E-202 *	
D	Switch			76-1 *	
R3	800Ω	25	01026710		RTV-95
R4	1500Ω	2	01024620	WK-1500	RTV-22
R5A	1 Meg.		01007520	Q11-137	AG-61-S
B	Shaft		Not Req.	Not Req.	FKS-1/4
R6A	4 Meg.		01008570	01008570	AG-85-S
B	Shaft		Not Req.	Not Req.	FKS-1/4
R7	500Ω	2	01024820	W-500 †	43-500 †
R8A	25KΩ		01007540	Q1-120	AM-40-S
B	Shaft		Not Req.	RQ	FKS-1/4

* Additional parts to be used with "Concentrikrit".
† File slot in shaft to duplicate original.

RESISTOR

ITEM No.	RATING		REPLACEMENT DATA		ALL
	RESISTANCE	WATTS	DUMONT PART No.	IRC PART No.	
R9	82Ω	1/4	02031640		RF
R10	100KΩ		02032010		AGC
R11	10KΩ		2	02037890	
R12	12KΩ		02031900		Mix
R13	12KΩ		02031900		Osc
R14	10KΩ	2	02037890		Osc
R15	1 Meg.		02032130		AGC</

DESCRIPTIONS (Continued)

CAPACITORS (CONT.)

REPLACEMENT DATA					IDENTIFICATION CODES AND INSTALLATION NOTES
OX No.	CENTRALAB PART No.	CORNELL DUBILIER PART No.	ERIE PART No.	SPRAGUE PART No.	
04	DD-2-502	{1D5D4 1D5D4	882-2x004	36C2	Limiter Screen Limiter Plate Dec.
05	D6-470	5W5Q5	GP1K-47	1FM-45	RF Bypass
75	D6-681	1W5T7	GP2K-680	1FM-37	De-emphasis
	D6-103	PTE4S1	811-01	TM-11-4	Audio Coupling
	D6-103	PTE4S1	811-01	TM-11-4	Audio Coupling
	D6-103	PTE4S1	811-01	TM-11-4	Tone Comp.
	DF-503	PTE4S5		TM-15-2	Tuning Ind. Filter
	D6-103	PTE6S1	811-01	TM-11	Audio Coupling
	D6-502	PTE6D5	811-005	TM-25	Output Plate Byp.
325	D6-270	5W5Q25	GP1K-27	MS-425	AF Feedback
	DF-503	PTE4S5		TM-15-2	Sync. Amp. Cath.
175	D6-51	1W5T8	GP2K-750	1FM-38	Sync. Amp. Screen
5	DD-502	1D5D5	811-005	29C1	Sync. Amp. Plate Dec
5	DD-502	1D5D5	811-005	29C1	Decoupling
04	D6-330	5W5Q4	GP1K-33	1FM-44	RF Bypass
15	D6-151	5W5T15	GP2K-150	1FM-315	RF Bypass
1	D6-102	PTE6D1	GP2L-001	TM-21	AGC Filter
	DF-104	PTE4P1		TM-1-2	Sync. Coupling
	DF-104	PTE4P1		TM-1-4	Sync. Coupling
2	D6-202	PTE6D2	GP2M-002	TM-22	Integrator Net.
47	D6-472	PTE6D5	GP2M-0047	TM-24	Integrator Net.
	DF-203	PTE4S2		TM-12-2	Integrator Net.
13	D6-302	1W5D3	GP2M-003	1FM-23	Vert. Osc. Grid
		PTE6P1		TM-1	Vert. Discharge
	DF-104	PTE6P1		TM-1	Vert. Sweep Coupling
12	D6-181	5R5T2	GP2K-180	MS-32	Hor. Sync. Coupling
2	D6-202	PTE6D2	GP2M-002	TM-22	Hor. Sync. Coupling
	DF-203	PTE4S2		TM-12-4	AFC Filter
		GT4P2		TM-2-4	AFC Filter
	DF-503	PTE4S5		TM-15-4	Hor. AFC Plate
25	D6-271	5W5T25	GP2K-270	1FM-325	Hor. Osc. Grid
		PTE4S1		1FM-21	Hor. Discharge
	D6-102	1W5D1	GP2L-001	1FM-21	Hor. Sweep Coupling
25	D6-271	5W5T25	GP2K-270	1FM-325	Hor. Sweep Coupling
1	D6-101	5W5T1	GP1K-100	1FM-31	Voltage Divider
	DF-503	PTE4S5		TM-15-4	Hor. Output Screen *
		GT2P2		TM-2-2	Hor. Output Cath.
					Damper Filter
	DF-503	PTE4S5		TM-15-2	Damper Filter
		GT6P25		TM-2	Damper Filter
		GT2P5		TM-5-2	Hor. Sweep Coupling
	TV1-501				HV Filter

CONTROLS

NT DATA			
No.	CLAROSTAT PART No.	CENTRALAB PART No.	INSTALLATION NOTES
trikit *	RTV-97		Brightness control-front Contrast control-rear Attach per instr. in "Concentrikrit".
trikit *			
trikit *	RTV-96		Horiz. hold control-front Volume control-rear Attach per instr. in "Concentrikrit". Focus control-Wire Wound Vert. linearity control-Wire Wound
0			
1	RTV-95	V-129	Vert. linearity control-Wire Wound
	AG-61-S	AN-89	Vert. hold control
	FKS-1/4	AK-1	Attach to R5A per instructions
	AG-85-S	AN-86	Vert. size control
	FKS-1/4	AK-1	Attach to R6A per instructions
	43-500 †	V-127 †	Horiz. linearity #1-Wire Wound
	AM-40-S	AN-26	AGC control
dit".	FKS-1/4	AK-1	Attach to R8A per instructions

RESISTORS

IT DATA		IDENTIFICATION CODES
IRC PART No.	ALL RESISTORS ARE ± 10% UNLESS OTHERWISE STATED	
		RF Amp. Cathode
		AGC Network
		RF Amp. Plate
		Mixer Coil Shunt
		Osc. Grid
		Osc. Plate
		AGC Network
		AGC Network
		Mixer Screen
		AGC Network
BTS-1000		1st Video IF Amp. Cathode
BTS-1000		1st Video IF Amp. Screen
BTS-1000		Decoupling
BTS-1000		1st Video IF Amp. Plate Decoupling
BTS-1000		AGC Network
BTS-1000		2nd Video IF Amp. Cathode
BTS-1000		2nd Video IF Amp. Screen
BTS-1000		2nd Video IF Amp. Plate Decoupling
BTS-1000		3rd Video IF Amp. Cathode
BTS-1000		3rd Video IF Amp. Screen
BTS-1000		3rd Video IF Amp. Plate Decoupling
BTS-1000		4th Video IF Amp. Grid
BTS-1000		4th Video IF Amp. Cathode
BTS-1000		4th Video IF Amp. Screen
BTS-1000		4th Video IF Amp. Plate Decoupling
BTS-15K		AGC Network
BTS-680K		AGC Network
BTS-270K		Voltage Divider
BTS-1.2 Meg.		AGC Network
BTS-1.2 Meg.		AGC Network
BTS-10 Meg.		AGC Network

RESISTORS (CONT.)

ITEM No.	RATING		REPLACEMENT DATA		IDENTIFICATION CODES
	RESISTANCE	WATTS	DUMONT PART No.	IRC PART No.	
R40	4300Ω	5%	02030630		Video Det. Diode Load
R41	22Ω		02031570	BW-1/2-22	Video Amp. Cathode
R42	62KΩ	5%	02036910		Video Amp. Screen
R43	4300Ω	5%	02036630		Video Amp. Plate
R44	180KΩ		02035040	BTA-180K	Video Peaking
R45	1 Meg.		02032130	BTS-1 Meg.	Picture Tube Grid
R46	100KΩ		02032010	BTS-100K	DC Rest. Load
R47	100KΩ		02032010	BTS-100K	Picture Tube Cathode
R48	10KΩ		02031890	BTS-10K	AGC Network
R49	39Ω		02031600		1st Sound IF Amp. Cathode
R50	1000Ω		02031770	BTS-1000	1st Sound IF Amp. Screen
R51	1000Ω		02031770	BTS-1000	1st Sound IF Amp. Plate Decoupling
R52	1.2 Meg.		02032140	BTS-1.2 Meg.	AGC Network
R53	270KΩ		02032060		2nd Sound IF Amp. Grid
R54	1000Ω		02031770	BTS-1000	2nd Sound IF Amp. Screen
R55	1000Ω		02031770	BTS-1000	2nd Sound IF Amp. Plate Decoupling
R56	100KΩ		02032010	BTS-100K	Disc. Diode Load
R57	100KΩ		02032010	BTS-100K	Disc. Diode Load
R58	100KΩ		02032010	BTS-100K	De-emphasis
R59	22KΩ		02031930	BTS-22K	Tone Compensation
R60	10 Meg.		02032250	BTS-10 Meg.	AF Amp. Grid
R61	330KΩ		02032070	BTS-330K	AF Amp. Plate
R62	470KΩ		02032090	BTS-470K	Audio Output Grid
R63	270KΩ		02031700	BTS-270K	Audio Output Cathode
R64	3900Ω		02037840	BT-2-3900	Audio Output Decoupling
R65	3900Ω		02037840	BT-2-3900	Audio Output Decoupling
R66	1.2 Meg.		02032140	BTS-1.2 Meg.	Tuning Indicator Network
R67	3300Ω				Tuning Indicator Grid
R68	68Ω		02031630	BW-1/2-68	Sync. Amp. Cathode
R69	270Ω		02031700	BW-1/2-270	Sync. Amp. Cathode
R70	1000Ω		02031770	BTS-1000	Sync. Amp. Screen
R71	1000Ω		02031770	BTS-1000	Sync. Amp. Plate Decoupling
R72	18KΩ		02031920	BTS-18K	Voltage Divider
R73	10KΩ		02031890	BTS-10K	Isolation
R74	1.2 Meg.		02032140	BTS-1.2 Meg.	1st Sync. Clipper Grid
R75	22KΩ		02031930	BTS-22K	1st Sync. Clipper Plate
R76	1.2 Meg.		02032140	BTS-1.2 Meg.	2nd Sync. Clipper Grid
R77	2700Ω		02031820	BTS-2700	2nd Sync. Clipper Plate
R78	10KΩ		02031890	BTS-10K	Integrator
R79	10KΩ		02031890	BTS-10K	Integrator
R80	10KΩ		02031890	BTS-10K	Integrator
R81	1.8 Meg. 5%		02031260	BTS-1.8 Meg. 5%	Vert. Osc. Grid
R82	910KΩ 5%		02031190		Vert. Osc. Plate
R83	4700Ω 5%		02030640	BTS-4700-5%	Vert. Peaking-See Note 3
R84	2.2 Meg.		02032170	BTS-2.2 Meg.	Vert. Amp. Grid
R85	560Ω		02031740	BTS-560	Vert. Amp. Cathode
R86	5000Ω		02112340	AB-5000	Decoupling-Wire Wound
R87	2.7 Meg. 5%		02034300	BTA-2.7 Meg. 5%	Voltage Divider
R88	820KΩ 5%		02031180	BTS-820K-5%	Horiz. AFC Grid
R89	150KΩ 5%		02031000	BTS-150K-5%	Horiz. AFC Cathode
R90	8200Ω 5%		02030700	BTS-8200-5%	Horiz. AFC Filter Network
R91	100KΩ 5%		02033960	BTA-100K-5%	Horiz. Osc. Grid
R92	150KΩ 5%		02034000	BTA-150K-5%	Horiz. AFC Cathode
R93	8200Ω 5%		02030700	BTS-8200-5%	Horiz. Osc. Transformer Shunt
R94	68KΩ		02031990	BTS-68K	Voltage Divider
R95	120KΩ		02032020	BTS-120K	Voltage Divider
R96	150KΩ		02032030	BTS-150K	Horiz. AFC Filter Network
R97	47KΩ		02034970	BTA-47K	Horiz. Osc. Plate
R98	10KΩ		02034890	BTA-10K	Filter
R99	470KΩ		02032090	BTS-470K	Horiz. Output Grid
R100	47Ω		02031610	BW-1/2-47	Parasitic Suppressor
R101	100Ω		02037650	BW-2-100	Horiz. Output Cathode
R102	100Ω		02031650	BW-1/2-100	Parasitic Suppressor
R103	100Ω		02037650	BW-2-100	Horiz. Linearity Network
R104	10KΩ		02037890	BT-2-10K	Horiz. Size Coil Shunt
R105	5.6Ω		02100830		HV Rect. Filament-Wire Wound
R106	3900Ω		02037840	BT-2-3900	Horiz. Output Screen
R107	560KΩ		02038100		HV Filter
R108A	910Ω		02119910		Focus coil Shunt-Wire Wound
B	215Ω		5		Series Focus Coil-Wire Wound
R109A	1480Ω		5		Filter-Wire Wound
B	2140Ω		5		Filter-Wire Wound
R110	3300Ω 5%		2	02036600	Filter
R111	3300Ω 5%		2	02036600	Filter
R112	2400Ω 5%		2	02036570	Bleeder
R113	400Ω		10	†	Bias Network-Wire Wound-See Note 1
R114	27Ω 5%		1	†	Bias Network-See Note 2
R115	22Ω		1	02034570	Series Dial Lamp
R116	1000Ω		1	02031770	Decoupling
R117	15KΩ		1	02031910	Voltage Divider-See Note 2
R118	2.2 Meg.		1	02032170	Voltage Divider-See Note 2

† Items R113 and R114 in some models are combined into one resistor obtainable under Mfg's Part No. 02120210.
 Note 1. Some models use a 427Ω 10 watt resistor in this application.
 Note 2. Not used in all models.
 Note 13. Some models use a 5100Ω resistor in this application.

SPEAKER

ITEM No.	RATINGS		REPLACEMENT DATA			NOTES
	FIELD RES.	V. C. IMP.	DUMONT PART No.	JENSEN PART No.	QUAM PART No.	
SP1A	PM	4.5Ω	18003061 ②		10A4A	② Used in Gullford model only. ③ Used in Putnam model only.
B	PM		18003041 ③			
SP2A	CONE DIA.	V. C. DIA.				
B	9 1/2"	1"				

TRANSFORMER (POWER)

ITEM No.	RATING				REPLACEMENT DATA			
	PRI.	SEC. 1	SEC. 2	SEC. 3	DUMONT PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.
T1	117VAC ② 2.1A	720VCT .240ADC	5VAC ② 3A	6.3VAC ② 10A	20004771			TP-360

DUMONT
MODEL RA-11A

PARTS LIST AND DESCRIPTIONS (Continued)

TRANSFORMER (SWEEP CIRCUITS)

ITEM No.	RATING		REPLACEMENT DATA				NOTES
	DC RESISTANCE		DUMONT PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
	PRI.	SEC.					
T2	160Ω	1330Ω	20004721	A-8121 ①	A-4000 ①	TBO-2	Vert. Block Osc. Trans Hor. Output Trans.
T3	390Ω	4Ω	20004781			TFB-3	
	Tap @	SEC. 2					
T4	52Ω	0Ω	20004731	A-8112 ①	A-3038 ①	TSO-5 ①	Vert. Output Trans. Hor. Deflection Coil Vert. Deflection Coil Focus Coil
T5A	565Ω	6.4Ω	21005501	DY-7	MD-3		
B	13Ω						
T6	65Ω		21005341		MF-2		

① Drill one new mounting hole.

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING				REPLACEMENT DATA				INSTALLATION NOTES
	IMPEDANCE		DC RES.		DUMONT PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
	PRI.	SEC.	PRI.	SEC.					
T7A	5300Ω	4.5Ω	300Ω	.6Ω	Part of SP1A	A-3877 ①	A-3019	RO-9	① Drill one new mounting hole. ② Used in Guilford model only. ③ Used in Putnam model only.
B					② Part of SP1B				
					③				

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA				INSTALLATION NOTES
	TOTAL DIRECT CURRENT	D. C. RESISTANCE	INDUCTANCE (Ø CURRENT 1000 ✓)	DUMONT PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
L1	.240ADC	10Ω	.190 Henries	21005431				① Drill one new mounting hole.
L2	.240ADC	57Ω	3.5 Henries	21005211	C-2326 ①	C-2991 ①	TR-3300 ①	

COILS (RF-IF)

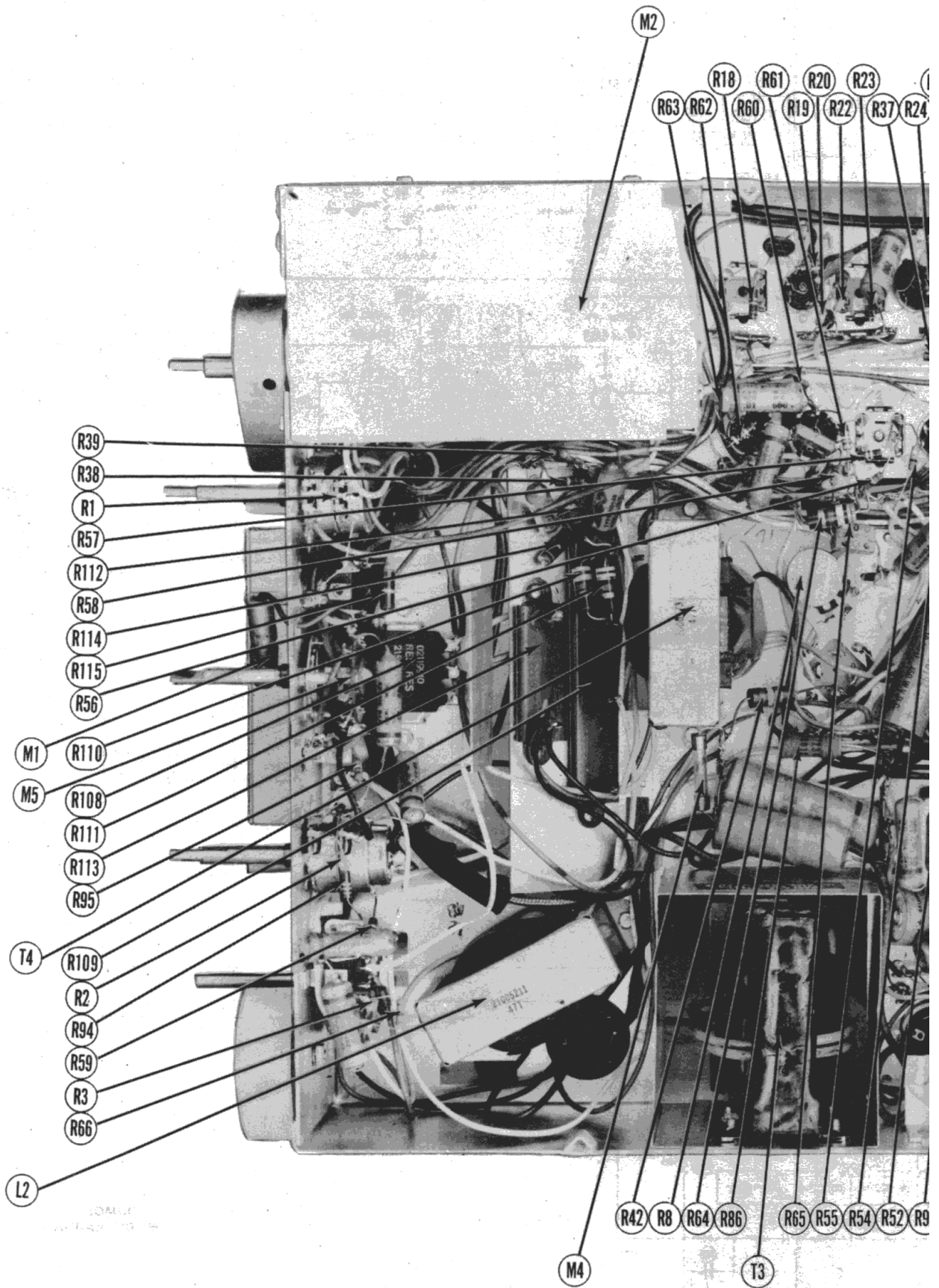
ITEM No.	USE	DC RES.		REPLACEMENT DATA		NOTES
		PRI.	SEC.	DUMONT PART No.	MEISSNER PART No.	
		L3	Ant. Coil	0Ω	0Ω	
L4	Ant. Loading	0Ω		21005801		
L5	Ant. Coil	0Ω				Part of tuner, part #89003801.
L6	Ant. End	0Ω		21005721		
L7	Inductor	0Ω		21005741		Part of tuner, part #89003801.
L8	RF Choke	0Ω		21005722		
L9	RF End	0Ω				Part of tuner, part #89003801.
L10	Inductor	0Ω		21005731		
L11	Band Pass	0Ω				Part of tuner, part #89003801.
L12	Mixer Grid	0Ω		21005722		
L13	End Inductor	0Ω				Part of tuner, part #89003801. Not used in all models.
L14	Mixer Grid	0Ω		21005521		
L15	Band Pass	0Ω		21005421		Part of tuner.
L16	RF Choke	0Ω		21005131		
L17	Osc. Shunt	0Ω				Part of tuner.
L18	Osc. Coil	0Ω		21005111		
L19	Osc. End	0Ω		21005421		Part of tuner, part #89003801.
L20	Inductor	0Ω		21005421		
L21	Fil. Choke	0Ω		21005421		Part of tuner, part #89003801.
L22	Fil. Choke	0Ω		21005421		
L23	Conv. Trans.	.1Ω	.1Ω	20004951		Part of tuner, part #89003801.
L24	1st Video IF	.1Ω	.5Ω	20004701		
L25	2nd Video IF	.7Ω	.7Ω	20004711		Part of tuner, part #89003801.
L26	3rd Video IF	.8Ω	.7Ω	20004741		
L27	4th Video IF	.5Ω	.5Ω	20004751		Part of tuner, part #89003801.
L28	5th Video IF	.8Ω	.5Ω	20004761		
L29	Peaking	12Ω		21004463		May be wound on 10KΩ resistor, part #21004652.
L30	Peaking	10Ω		21004467		
L31	Sound Trap	3Ω		21004831		Yellow dot Brown-Black dot Yellow dot
L32	Peaking	10Ω		21004467		
L33	Video IF					Red-Orange dot
L34	Trap	.2Ω		21004802		
L35	1st Sound IF	.2Ω	.2Ω	20004511		Part of tuner, part #89003801.
L36	2nd Sound IF	.2Ω	.2Ω	20004511		
L37	Disc. Trans.	.3Ω	.3Ω	20004441		Part of tuner, part #89003801.
L38	Sync. Det.					
L39	Trans.	.1Ω	.1Ω	20004671		Part of tuner, part #89003801.
L40	Trans.	.1Ω	.1Ω	20004671		
L41	Horiz. Osc.	75Ω	48Ω	20004611		Primary tapped at 22Ω
L42	Trans.	75Ω	48Ω	20004611		
L43	Horiz. Lin.	7Ω		21005221		Part of tuner, part #89003801.
L44	Horiz. Size	4.2Ω	2.5Ω	21005322		

DIAL LIGHTS

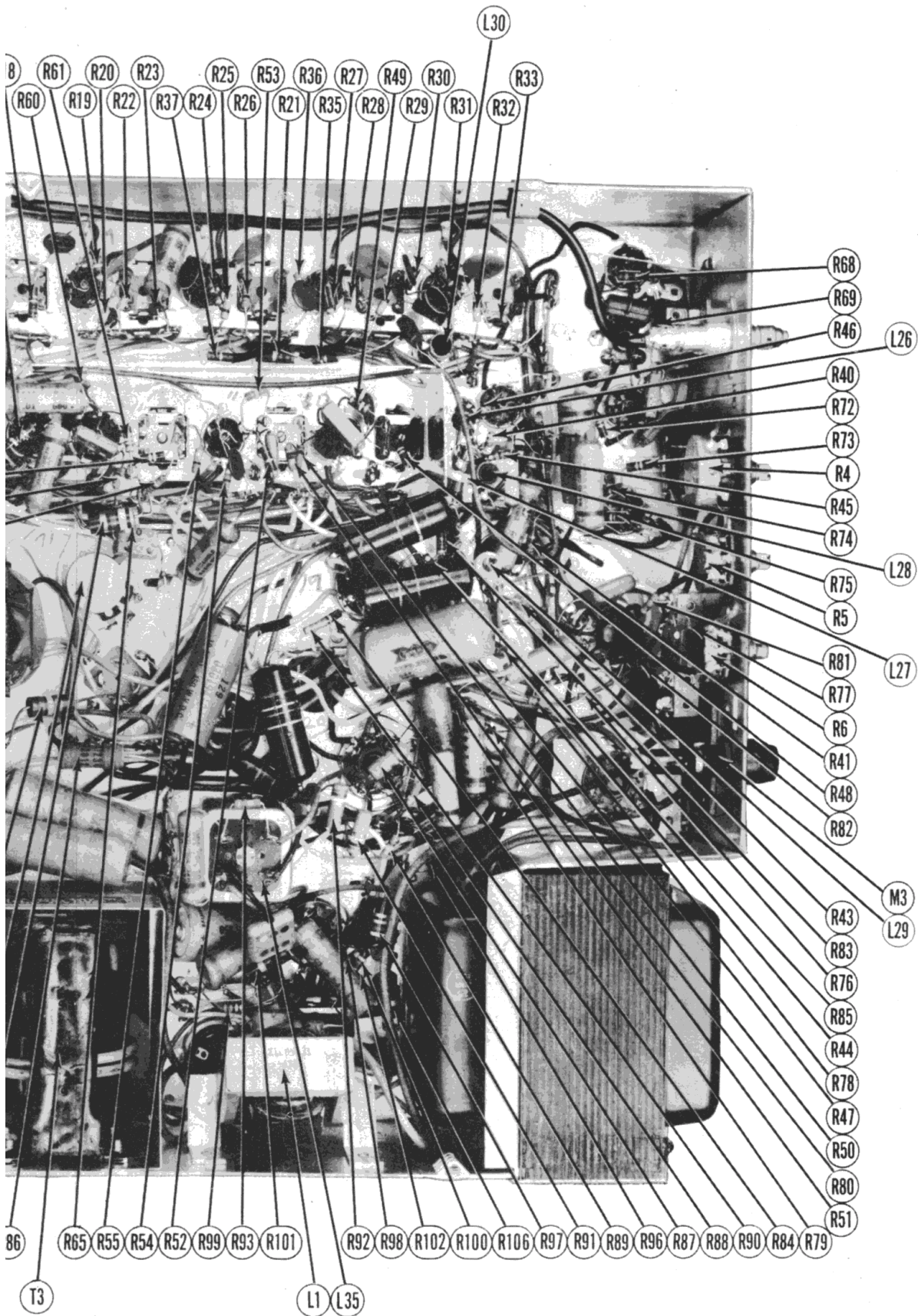
ITEM No.	BASE TYPE	VOLTS	AMPS.	BEAD COLOR	REPLACEMENT DATA		NOTES
					DUMONT PART No.		
M1	Bayonet	6-8	.15	Brown	12001310		Type #47

MISCELLANEOUS

ITEM No.	PART NAME	DUMONT PART No.	NOTES
M2	Tuner	89003301	3A 250V Some models use 4A, part #11000800.
M3	Fuse	11000790	
M4	Fuse	11001100	.25A 250V Type GJV
M5	Switch	05004001	Function Phono-TV-FM
M6	Ion Trap	21004852	
M7A	Switch	05003690	Local-Distant
B	Switch	05003050	Local-Distant
	Trimmer	03019370	2 section Horiz. freq. 10-160MMF, Horiz. drive 40-250MMF
	Safety Glass	45001852	Putnam only
	Safety Glass	45001851	Guilford only
	Knob	45001371	Main dial, mahogany
	Knob	45001431	Vernier dial, mahogany
	Knob	45001811	Focus, mahogany
	Knob	45001372	Main dial, blonde
	Knob	45001433	Vernier dial, blonde
	Knob	45001812	Focus, blonde



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