

Ned. Ver. v. Historie



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FADA MODEL 605W

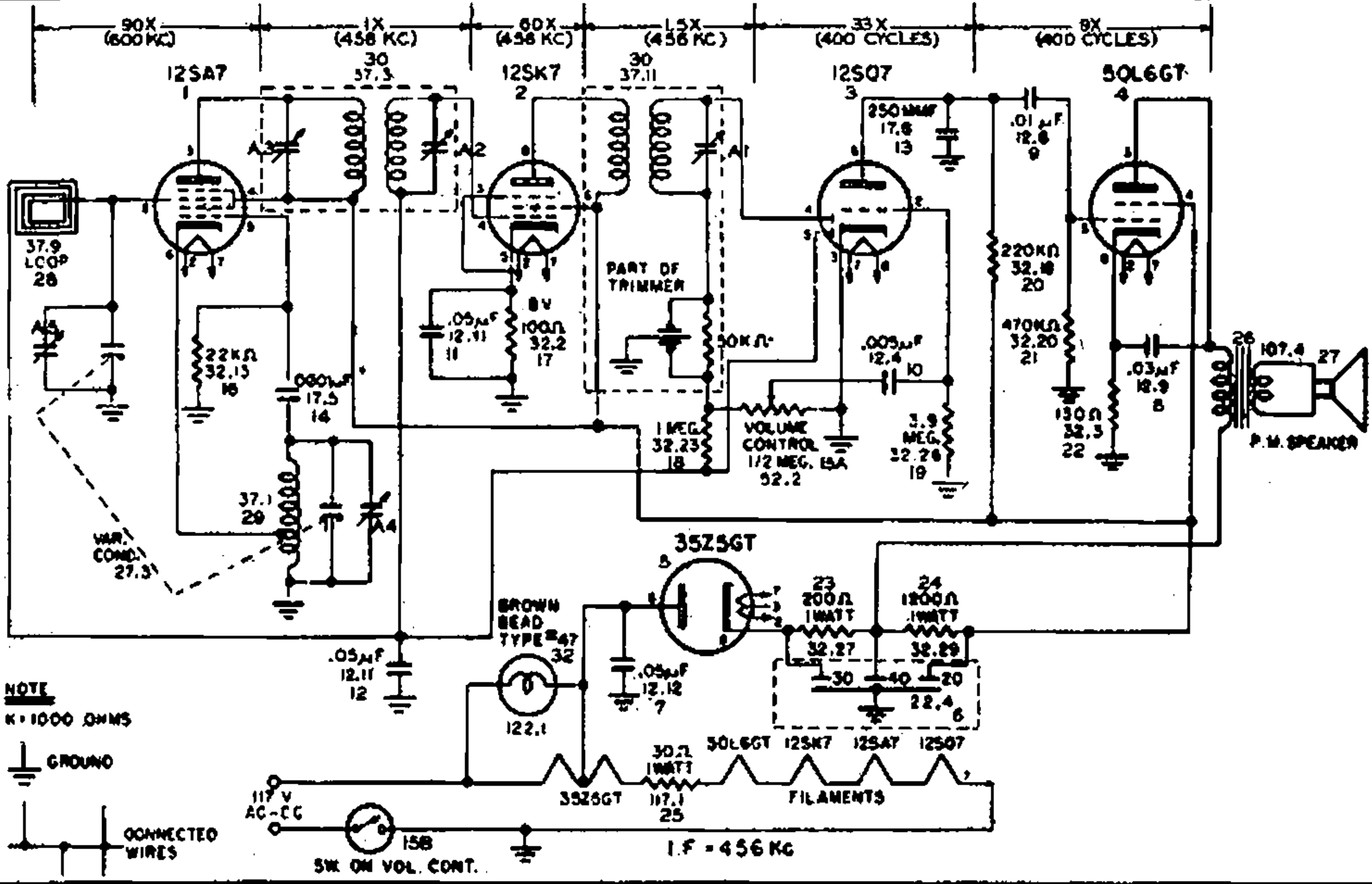
**TRADE NAME** Fada, Models 605 and 606 Series  
**MANUFACTURER** Fada Radio & Electric Co., Inc. - 30-20 Thomson Avenue - Long Island City, New York  
**TYPE SET** AC - DC Superheterodyne - Self Contained Loop Antenna  
**TUBES (FIVE)** Types 12SA7GT 1stDet.-Osc., 12SK7GT IF Amp. 12SQ7GT 2ndDet.-AVC-LAF, 50L6GT Power Output, 36Z5GT Rectifier  
**POWER SUPPLY** 117 Volts AC-DC Rating .250 Amp. at 117 Volts AC  
**TUNING RANGE--BROADCAST** 528-1680KC **SHORT WAVE**

**ALIGNMENT INSTRUCTIONS**

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
.001 MFD	High side to signal grid of 12SA7. Low side to chassis.	458KC	Quiet point at 1600KC end of dial.	Across voice coil	A1, A2, A3	Adjust for maximum output. Use isolation transformer if available. If not, isolating capacitor must be connected between signal generator lead and chassis of receiver.
	Loop	1500KC	1500KC	"	A4	Adjust for maximum output. Connect signal generator to loop of few turns of wire and couple loosely to receiver loop by spacing.
	"	"	"	"	A5	" " "

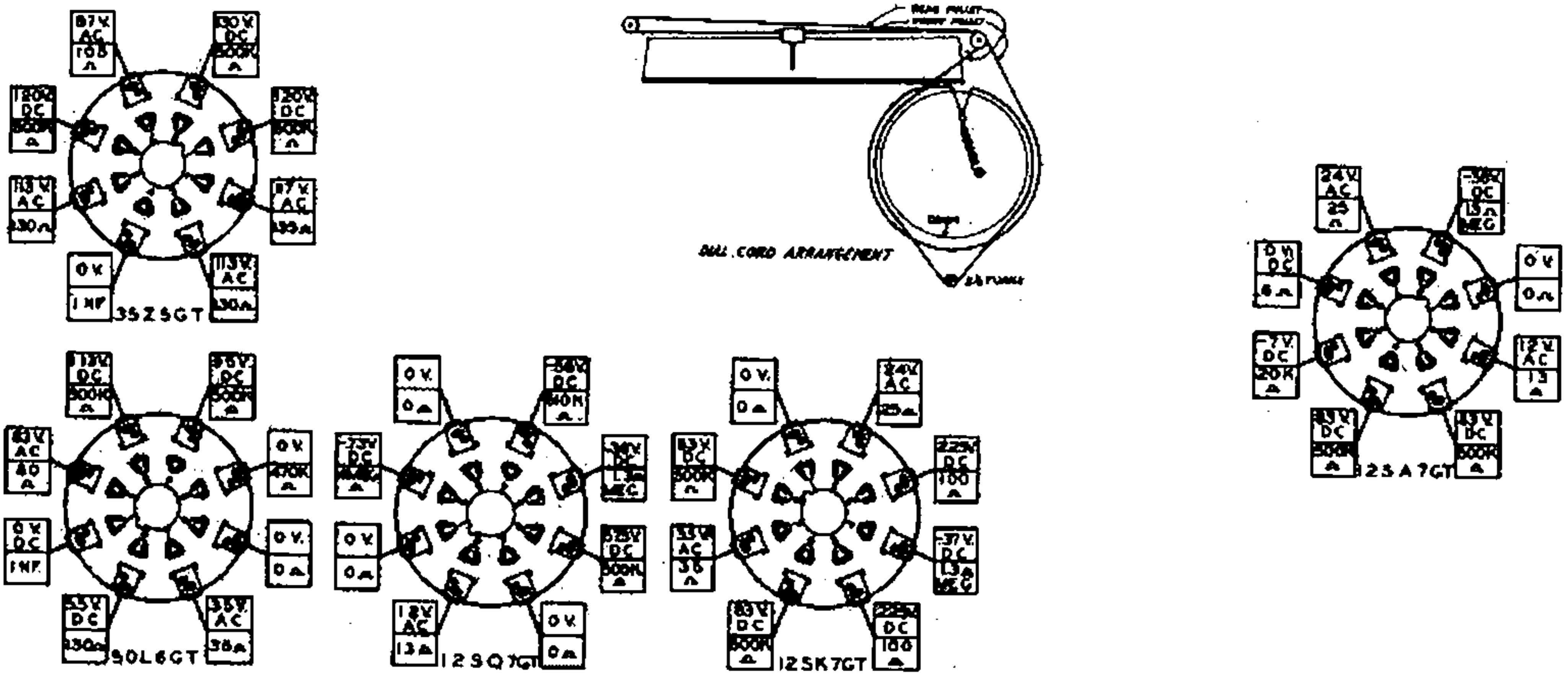
Volume control at maximum and signal generator output as low as possible for all adjustments. Use insulated alignment screwdriver. Check dial calibration by turning rotors to full mesh and dial pointer should be over extreme left mark on dial back plate.

# SCHEMATIC DIAGRAM



The stage gain measured values listed above are approximate values for an average operative stage, rather than an absolute value. It should be borne in mind that it is possible to introduce so many variables into the measurement operation, such as type of equipment used for measuring, handling and placement of probes, the accuracy of alignment, etc., that an absolute reading is impractical. AVC is made inoperative and 3 volt battery bias is substituted for measurement.

## VOLTAGE AND RESISTANCE ANALYSIS CHART



- 1 - DC Voltage measurements are at 20,000 ohms per volt; AC Voltages measured at 1000 ohms per volt.
- 2 - Socket connections are shown as bottom views.
- 3 - Measured values are from socket pin to common negative.
- 4 - Line voltage maintained at 117 volts for voltage readings.
- 5 - Nominal tolerance on component values makes possible a variation of + 10% in voltage and resistance readings.
- 6 - Volume control at maximum, no signal applied for voltage measurements.

**HOWARD W. SAMS & CO., INC.**

2924 EAST WASHINGTON STREET • INDIANAPOLIS 6, INDIANA

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# PARTS LIST AND DESCRIPTIONS

## TUBES

ITEM No.	USE	REPLACEMENT DATA		EAA BASE TYPE	INSTALLATION NOTES
		FADA PART No.	STANDARD REPLACEMENT		
1	Mixer	12SA7GT	12SA7GT	8AD	
2	IF Amp.	12BK7GT	12BK7GT	8N	
3	Det-AVC-AF	12SQ7GT	12SQ7GT	8Q	
4	Power Output	50L6GT	50L6GT	7AC	
5	Rectifier	35Z5GT	35Z5GT	6AD	

## 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	FADA PART No.	MALLOY PART No.	SOLAR PART No.	SPRAGUE PART No.	AEROVOX PART No.		CORNELL-DUBILIER PART No.
6(A)	40	150	22.4	TN129	DSB 40/30/20-150	TA-430	PRS150-40-40	EZ42215	Filter - Blue
(B)	30	150							Filter - Red
(C)	20	150				UT-201	PRS150-20		Filter - Yellow
7	.05	400	12.12	TP428	S-4-05	TC-15	484-.05	DT485	Line Filter
8	.03	400	12.9	TP424	S-6-03	TC-13	484-.03	DT483	50L6 Plate Bypass
9	.01	400	12.8	TP421	S-4-01	TC-11	484-.01	DT481	Audio Coupling
10	.005	600	12.4	TP408	S-6-005	TC-25	684-.005	DT6D5	"
11	.05	200	12.11	TP426	S-4-05	TC-15	484-.05	DT485	12SK7 Cath. Bypass
12	.05	200	12.11	TP426	S-4-05	TC-15	484-.05	DT485	AVC Filter
13	250	500	17.8	MC240	MO.5-325	1FM-325	1468-.00025	5W5T25	12SQ7 Plate Bypass
14	100	500	17.5	MC235	MO.5-31	1FM-31	1468-.0001	5W5T1	12SA7 Osc. Grid Cond.

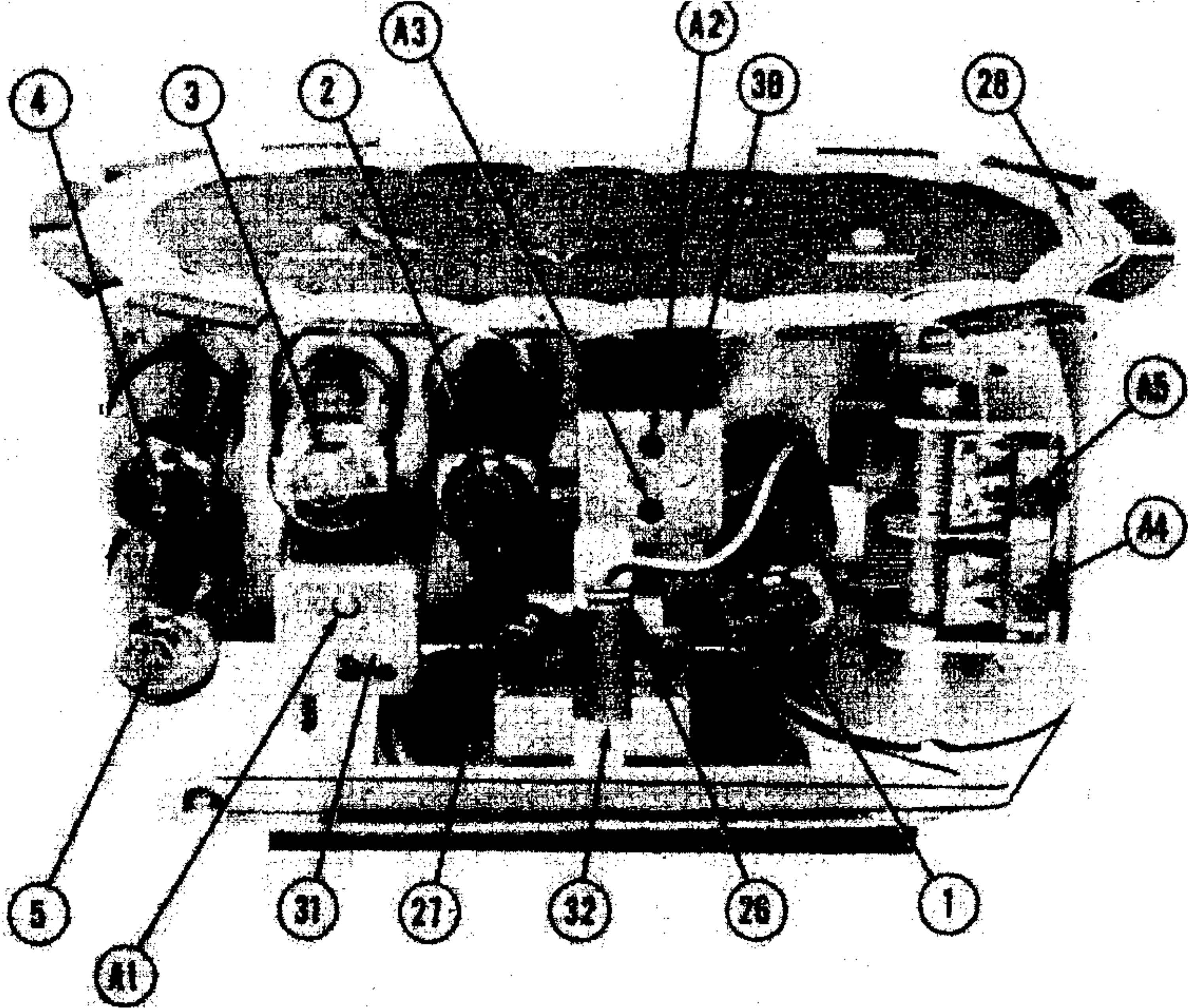
## CONTROLS

ITEM No.	RATING		REPLACEMENT DATA				INSTALLATION NOTES
	RESIST- ANCE	WATTS	FADA PART No.	MALLOY PART No.	IRC PART No.	CLAROSTAT PART No.	
15(A)	500K $\Omega$	1	52.2	MR-48	DS13-133	M-60-Z	Attach to 15A per instructions.
(B)	Switch			M26	41	SW-A	

## RESISTORS

ITEM No.	RATING		REPLACEMENT DATA		IDENTIFICATION CODES
	RESISTANCE	WATTS	FADA PART No.	IRC PART No.	
16	22K $\Omega$	1/4	32.13	BTS-22K	Red-Red-Or. Osc. Grid
17	100 $\Omega$	1/4	32.2	BW-1/4-100	Br.-Blk.-Br. IF Cathode
18	1 Meg.	1/4	32.23	BTS-1 Meg.	Br.-Blk.-Grn. AVC Network
19	3.9 Meg.	1/4	32.26	BTS-3.9 Meg.	Or.-Wh.-Grn. 1st AF Grid
20	220K $\Omega$	1/4	32.18	BTS-220K	Red-Red-Yl. Plate Load
21	470K $\Omega$	1/4	32.20	BTS-470K	Yl.-Vl.-Yl. Output Grid
22	130 $\Omega$	1/4	32.3	BW-1/4-130	Br.-Or.-Br. Output Cathode
23	200 $\Omega$	1	32.27	BW-1-200	Red-Blk.-Br. Filter
24	1200 $\Omega$	1	32.29	BTA-1200	Br.-Red-Red Filter
25	30 $\Omega$	1	117.1	BW-1-30	Or.-Blk.-Blk. Line Dropping

CHASSIS—TOP VIEW



# PARTS LIST AND DESCRIPTIONS

## TRANSFORMER (OUTPUT)

ITEM No.	RATING				REPLACEMENT DATA				INSTALLATION NOTES
	IMPEDANCE		DC RES.		FADA PART No.	STANCOR PART No.	THORDARN PART No.	UTAH PART No.	
	PRI.	SEC.	PRI.	SEC.					
26	2150g	3.4g	190g	.69g	42.1	A3876†	T13942†	8775*	*Bend Mounting tabs down and file out holes. Mount same as original transformer. †Improvisation of new mounting bracket is necessary.

## SPEAKER

ITEM No.	RATINGS		REPLACEMENT DATA			INSTALLATION NOTES
			FADA PART No.	JENSEN PART No.	UTAH PART No.	
27	FIELD	VC IMP.	107.4	ST-540*	4FY*	*Improvisation is necessary for mounting the escutcheon in the same position as originally used.
	PM	3.4g				
	CONE DIA.	VC DIA.	NOT REPLACEABLE—USE COMPLETE SPEAKER UNIT.			
	4"	2"				

## R F COILS

ITEM No.	USE	DC RES.		REPLACEMENT DATA		INSTALLATION NOTES
		PRI.	SEC.	FADA PART No.	MEISSNER PART No.	
28	Loop Ant.	1.2g		37.9		
29	Osc.	.5g	5g	37.1		
30	Input IF	20g	20g	37.3	16-8658	
31	Output IF	25g	25g	37.11		

## DIAL LIGHT

ITEM No.	BASE TYPE	VOLTS	AMPS.	BEAD COLOR	REPLACEMENT DATA		INSTALLATION NOTES
					FADA PART No.		
32	Min. Bayonet	6-8	0.16	Brown	122.1		#47



CHASSIS—BOTTOM VIEW

