

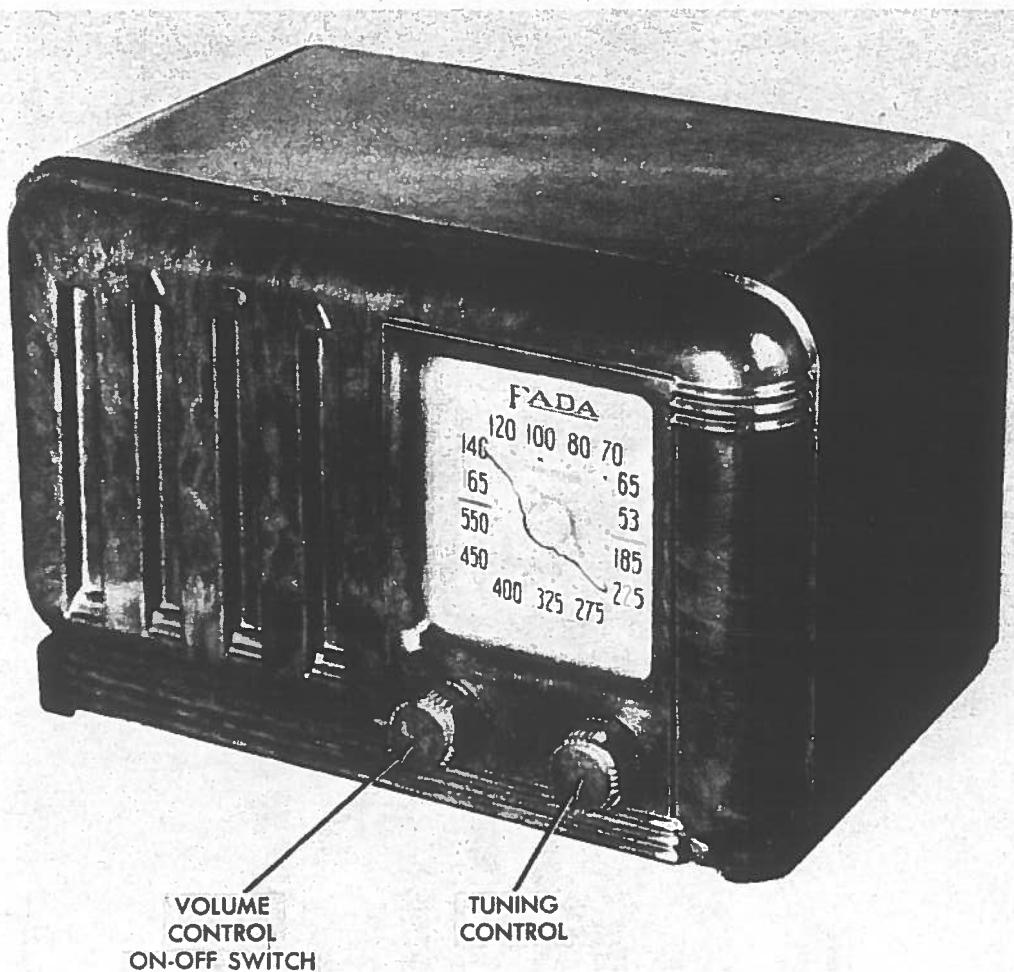
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TRADE MARK

**FADA
MODELS 609, 610 SERIES**

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FADA MODEL 609W

TRADE NAME	Fada, Models 609, 610 Series				
MANUFACTURER	Fada Radio & Electric Co. Inc. - 30-20 Thomson Ave. - Long Island City, New York				
TYPE SET	AC - DC Superheterodyne - Self Contained Loop Antenna				
TUBES (FIVE)	Types 12SA7GT/G Mixer, 12SK7GT/G IF Amp., 12SQ7GT/G Det.-AVC-AF, 50L6GT Power Output, 35Z5GT Rectifier				

POWER SUPPLY	117 Volts AC-DC Rating .245 Amp., @ 117 Volts AC				
TUNING RANGE-BROADCAST	528-1680 KC SHORT WAVE				

ALIGNMENT INSTRUCTIONS

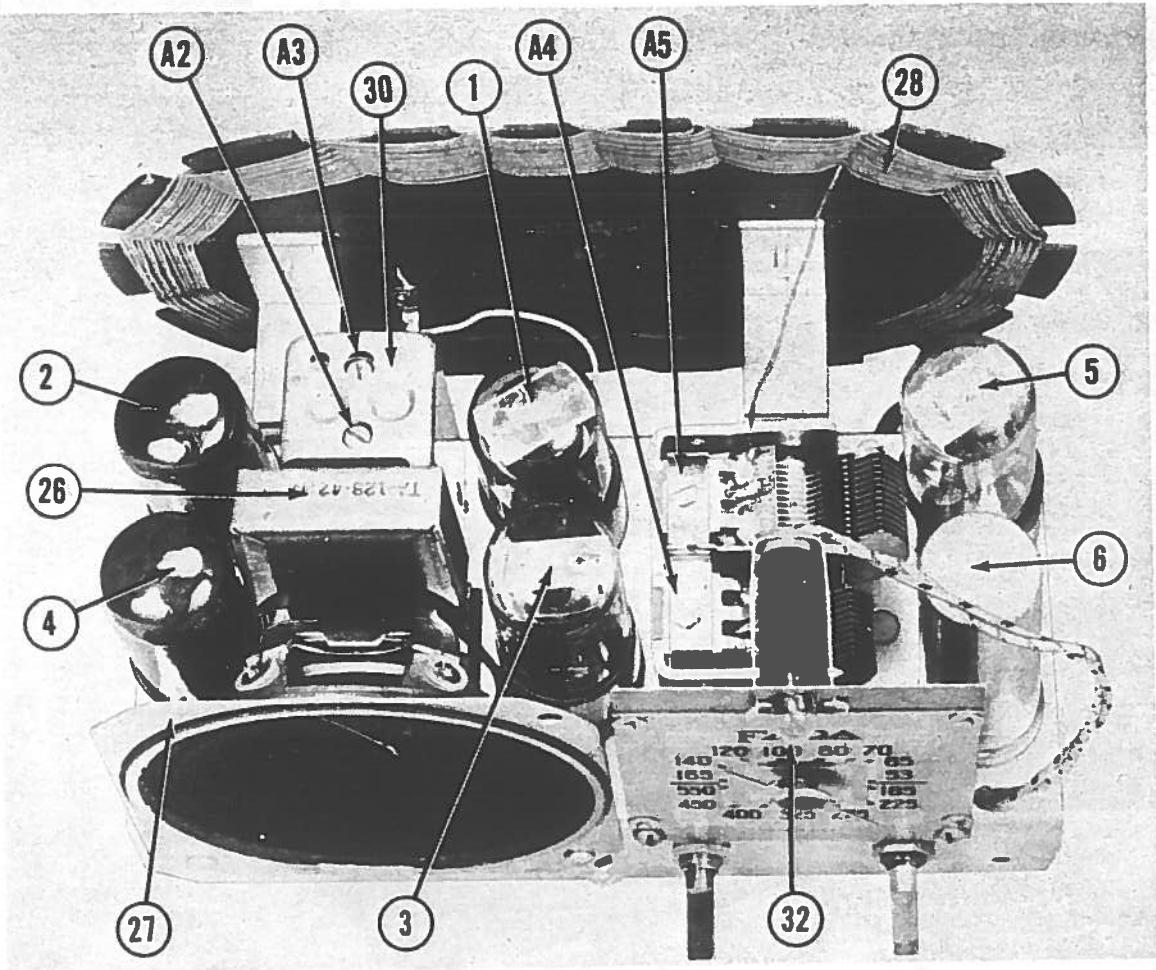
DUMMY ANTENNA *	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
.001	High side to signal grid of 12SA7. Low side to chassis	456KC	Quiet point at high end of dial	Across voice coil	A1, A2 A3	Adjust for maximum output. See Note A
	Loop	1680KC	Full C.C.W. (min. cap.)	"	A4	Adjust for maximum output. See Note B
	"	1400KC	Tune to signal	"	A5	Adjust for maximum output See Note B.
						Note A - Use isolation transformer if available. If not, isolating capacitor must be connected between receiver chassis and signal generator ground lead. Note B - Connect signal generator to loop of few turns of wire and couple loosely to receiver loop by spacing.

Volume control at maximum volume and output from signal generator as low as possible for all adjustments. Use insulated alignment screwdriver.

PARTS LIST AND DESCRIPTIONS

CHASSIS—TOP VIEW

TUBES			
ITEM No.	USE	FADA PART No.	RMA BASE TYPE REPLACEMENT
1	Mixer	12SA7EN/G	12SA7GT/G
2	IF Amp.	12SR7GT/G	12SR7GT/G
3	Det.-AVC-AP	12SQ7GT/G	12SQ7GT/G
4	Power Output	50L6GT/G	50L6GT/G
5	Rectifier	35Z5GT/G	35Z5GT/G



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 CAP. VOLT	REPLACEMENT DATA				IDENTIFICATION CODES AND INSTALLATION NOTES
		FADA PART No.	MALLORY PART No.	SOLAR PART No.	SPRAGUE PART No.	
6(A)	40	22.1	FF357	DY-3X40-150	EL-340	AERVOX PART No. UPSCJ44
(B)	30	150				Filter
(C)	20	150				"
7	.05	400	12.12	TP426	S-4-.05	DT455 Line Bypass
8	.05	400	12.9	TP424	S-6-.03	5016 Plate Bypass
9	.02	400	12.8	TP423	S-4-.02	DT453 Audio Coupling
10	.005	600	12.4	TP408	S-6-.005	DT452 12SK7 Cath. Bypass
11	.005	200	12.11	TP426	S-4-.05	AVC Filter
12	.05	200	12.11	MC240	M-60-Z	12S47 Plate Bypass
13	.250	500	17.8	MC235	SH-A	5W5P26 Osc. Grid Cond.
14	100	500	17.5	MC235	M-31	5R5P1

CONTROLS

ITEM No.	RATING WATTS	FADA PART No.	MALLORY PART No.	REPLACEMENT DATA		INSTALLATION NOTES
				CLAROSTAT PART No.	PIECES	
15(A)	500K	1	58.1	DS13-133	M-60-Z	Volume
(B) Switch			Not Req.	41	SH-A	Attach to 15A per instr.

RESISTORS

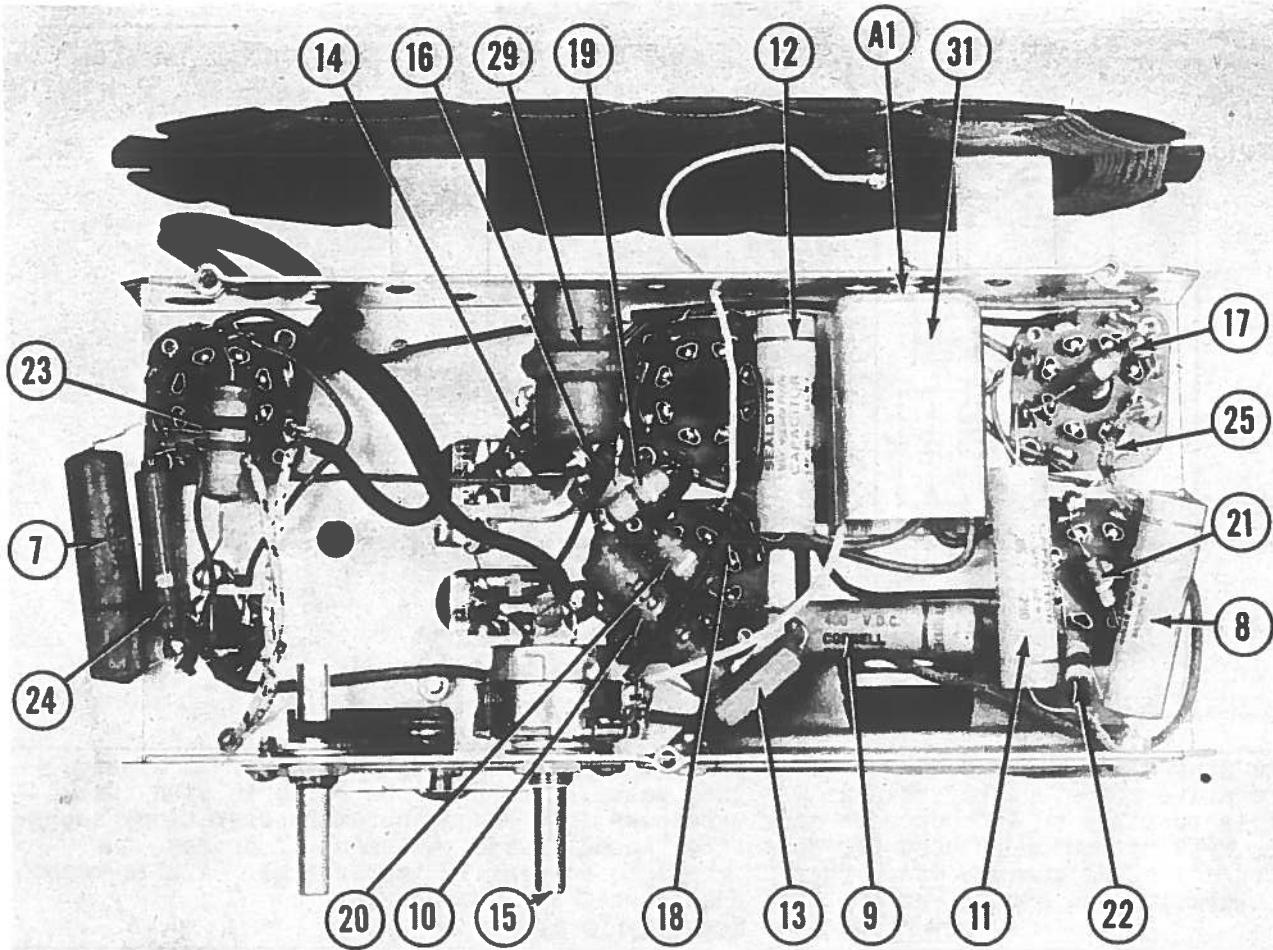
ITEM No.	RATING RESISTANCE WATTS	FADA PART No.	REPLACEMENT DATA INC. PART No.	IDENTIFICATION CODES	
				BR	OR
16	220K	1/2	32.13	BTS-22K	Red-Red-Or. USC. Grid
17	100K	1/2	32.2	BTS-1100	Br-Blk-Br. IF Cathode
18	1 Meg.	1/2	32.23	BTS-1 Meg.	Br-Blk-Br. AVC Network
19	3.9 Meg.	1/2	32.25	BTS-3.9 Meg.	Or-Br-Br. 1st AF Grid
20	220K	1/2	32.18	BTS-220K	Red-Red-Yl. Plate Lead
21	470K	1/2	32.20	BTS-470K	Yl-Vl.-Yl. Output Grid
22	150K	1/2	32.23	BTS-150K	Br-Or-Br. Output Cathode
23	200K	1	32.27	BTS-200K	Red-Blk-Br. Filter
24	1200K	1	32.29	BTS-1200K	Br-Red-Red. Line Dropping
25	30s	1	117.1	BTS-130	Or-Blk-Blk. Line Dropping

PARTS LIST AND DESCRIPTIONS

TRANSFORMER (OUTPUT)

ITEM No.	RATING			REPLACEMENT DATA			INSTALLATION NOTES		
	IMPEDANCE PRN.	DC. RES. PRN.	SEC.	FADA PART No.	THORDARN PART No.	UTAH PART No.			
26	2370 ohms	.956a	1632a	.718	42-1	A38764	T135424#	8775*	# Mounting Bracket must be fair fitted. * Bend mounting tabs down and mount by original bracket.

CHASSIS—BOTTOM VIEW



SPEAKER

ITEM No.	RATING			REPLACEMENT DATA			INSTALLATION NOTES
	RATINGS	FADA PART No.	UTAH PART No.	JENSEN PART No.	MESSNER PART No.	UTAH PART No.	
27	FIELD IN. CONE DIA. 4"	1/2 IMP. 3.650 1/2" DIA.	107-11	ST-540	4PZ		Special cone adjustment feature. Replace with duplicate part.

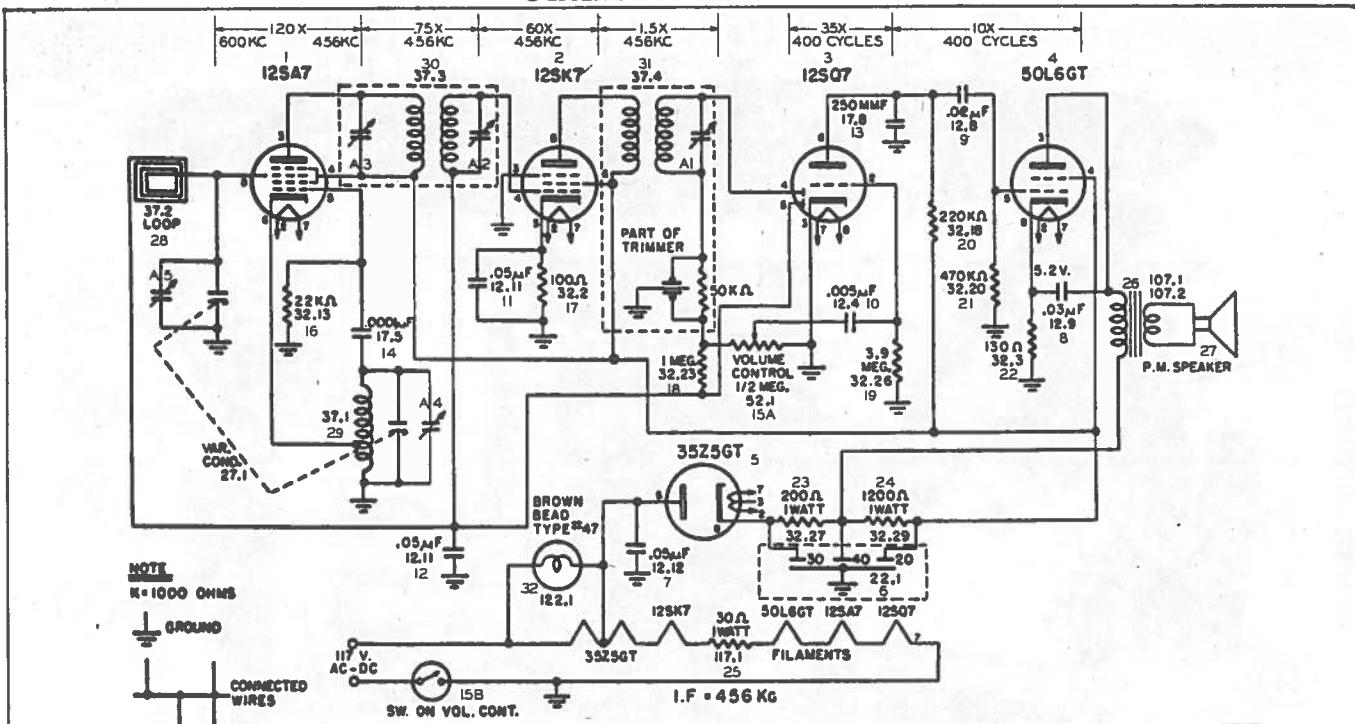
R F COILS

ITEM No.	USE	REPLACEMENT DATA			INSTALLATION NOTES	
		DC. RES. PRN.	SEC.	FADA PART No.	MESSNER PART No.	
28	Loop Ant.	18		37-2		
29	Osc.	.68		58	37-1	
30	Input IF	200		208	37-3	
31	Output IF	236		239	37-4	
					16-6658	

DIAL LIGHT

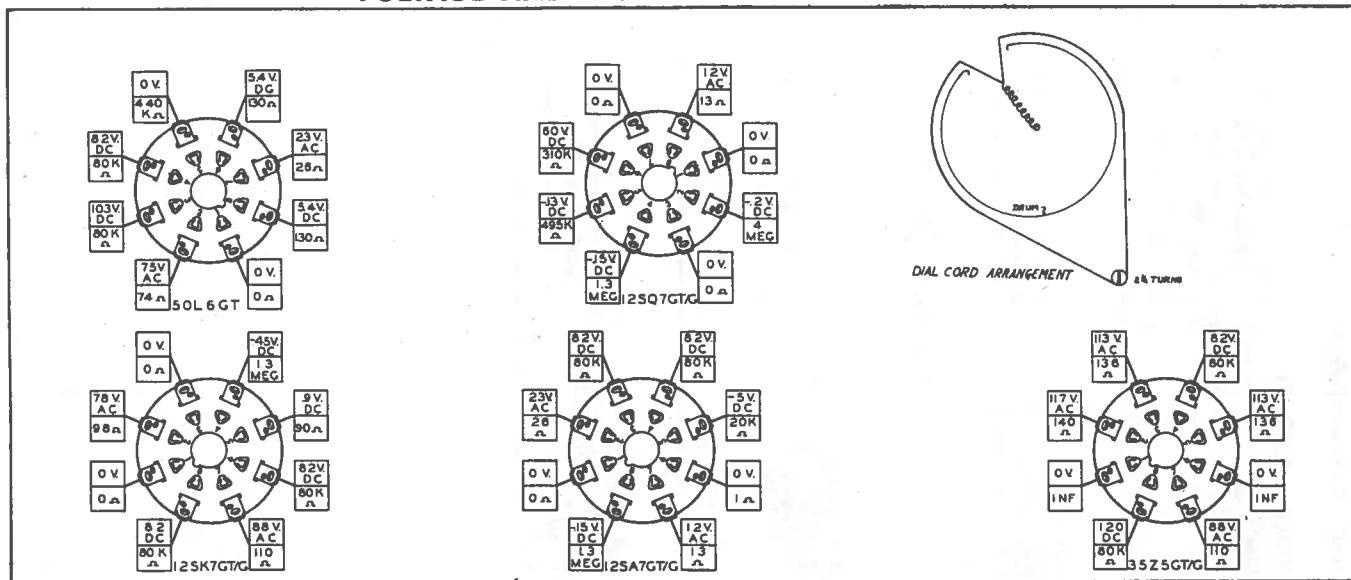
ITEM No.	BASE TYPE	REPLACEMENT DATA			INSTALLATION NOTES	
		VOLTS	AMPS.	BEAD COLOR		
32	Brown	6-8	0.15	Brown	122-1	#47

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 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 make possible a variation of $\pm 10\%$ in voltage and resistance readings.
- 6 - Volume control at maximum, no signal applied for voltage measurements.

HOWARD W. SAMS & CO., INC.

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