

### Statistical analysis

**GLOBE**

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### TUNING CONTROL

GLOBE MODEL 500

<b>TRADE NAME</b>	Globe, Model 500					
<b>MANUFACTURER</b>	Globe Electronics, Inc., 225 W. 17th St., New York, N.Y.					
<b>TYPE SET</b>	AC-DC Operated Superheterodyne Receiver with Loop Antenna					
<b>TUBES (FIVE)</b>	Types, 7A5 Converter, 7C7 IF Amp., 14B6 Det.-AVC-AF, 35A5 Power Output, 35Z5GT Rectifier.					
<b>POWER SUPPLY</b>	110-120 Volts AC-DC					
<b>TUNING RANGE—BROADCAST</b>	540-1750KC		<b>RATING</b>	.260 Amp. @ 117 Volts AC		
<b>ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT</b>						
Use isolation transformer if available. If not, connect a capacitor in series with low side of signal gen. and chassis. Volume control should be at maximum position, output of signal generator should be no higher than necessary to obtain an output reading. Use an insulated alignment screwdriver for adjusting.						
<b>DUMMY ANTENNA</b>	<b>SIGNAL GENERATOR COUPLING</b>	<b>SIGNAL GENERATOR FREQUENCY</b>	<b>RADIO DIAL SETTING</b>	<b>OUTPUT METER</b>	<b>ADJUST</b>	<b>REMARKS</b>
.1 MFD.	High side to rear stator of tuning cap. Low side to chassis.	455KC	Tuning cap. open completely.	Across voice coil	A1, A2, A3, A4.	Adjust for maximum output. If isolation transformer is not used reduce dummy ant. to .001 MFD. to reduce hum modulation.
	Loop	1750KC	"	"	A5	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.
	"	1400KC	Tune for maximum output.	"	A6	"

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THE COOPERATION OF THE MANUFACTURER OF THIS RECEIVER MAKES IT POSSIBLE TO BRING YOU THIS SERVICE

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.

1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltages are 1000 ohms per volt.
2. Socket connections are shown on 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  $\pm 10\%$  in voltage and resistance readings.
6. Voltage control at maximum, no signal applied for voltage measurement.

Item	Table	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 8
1	7A8	13VAC	100VDC	100VDC	10VDC	100VDC	3.5VDC	20VAC
2	7C7	28VAC	100VDC	100VDC	0V	0V	3.5VDC	0V
3	1A86	0V	55VDC	10VDC	0V	17VDC	1.7VDC	0V
4	62VAC	62VAC	92VDC	100VDC	0V	0V	0V	13VAC
5	35A5	0V	88VAC	100VDC	12.6VDC	17VAC	0V	28VAC
6	35A5	0V	88VAC	100VDC	12.6VDC	17VAC	0V	28VAC

Item	Table	RESISTANCE READINGS					
		Pin 1	Pin 2	Pin 3	Pin 4	Pin 6	Pin 7
1	7AC	12 $\Omega$	150 K $\Omega$	50 K $\Omega$	50 K $\Omega$	1.5 M $\Omega$	0 $\Omega$
2	7AB	26 $\Omega$	150 K $\Omega$	150 K $\Omega$	0 $\Omega$	1.5 M $\Omega$	0 $\Omega$
3	1436	0 $\Omega$	620 $\Omega$	10 M $\Omega$	0 $\Omega$	470 K $\Omega$	0 $\Omega$
4	3545	57 $\Omega$	150 K $\Omega$	150 K $\Omega$	INF.	INF.	110 $\Omega$
5	35252	INF.	85 $\Omega$	150 K $\Omega$	200 $\Omega$	INF.	26 $\Omega$

RESISTANCE READINGS IN THE B-6 CIRCUITS MAY VARY WIDELY ACCORDING TO THE CONDITION OF THE FILTER CAPACITORS

**PARTS LIST AND DESCRIPTIONS**  
 TUBES (SYLVANIA or Equivalent)

GLOBE  
 MODEL 500

ITEM No.	USE	REPLACEMENT DATA			RMA BASE TYPE	INSTALLATION NOTES
		GLOBE PART No.	STANDARD REPLACEMENT			
1	Converter	7A8	7A8		8U	
2	IF Amp.	7C7	7C7		8V	
3	Det.-AVC-AF	14B6	14B6		9A	
4	Power Output	35A5	35A5		6AA	
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
		GLOBE PART No.	CORNELL DUBILIER	MALLORY	SOLAR	SPRAGUE	
Cap.	Vol.		Part No.	Part No.	Part No.	Part No.	
6A	30	150	BR10315	2H513	N-2X30-150	7A-230	FRS150-30-30 Filter - Red
7	B	05					
8	05	400	TP426	TP426	S-4-05	TC-15	484-05 Line Filter - Blue
9	02	200	TP432	TP432	S-4-02	TC-12	484-02 Output Plate Bypass
10	01	200	TP431	TP431	S-4-01	TC-11	484-01 Audio Coupling
11	05	200	TP426	TP426	S-4-05	TC-15	484-05 AVC Filter
12	250	500	5A5725	5A5725	NO.5-325	1FM-225	1468-00025 Audio Plate Bypass
13	120	500	5A571	5A571	NO.5-31	1FM-31	1468-00031 IF Bypass Vol. Cont.
14	75	500	5A5475	5A5475	NO.5-475	1FM-475	1468-00075 Osc. Grid Capacitor

**CONTROLS**

ITEM No.	RATING	REPLACEMENT DATA				INSTALLATION NOTES
		GLOBE PART No.	MALLORY	IRC	CLAROSTAT	
RESISTANCE	WATTS		Part No.	Part No.	Part No.	
15A	1		15A48	D13-133	N-60-Z	Volume Control
B			125	41	58-A	Attach to 15A per instructions
C	Switch					

**RESISTORS**

ITEM No.	RATING	REPLACEMENT DATA			IDENTIFICATION CODES
		GLOBE PART No.	IRC	Part No.	
RESISTANCE	WATTS				
16	1/2		16S-17K	VI-17K	VI-17K-Dr. Oscillator Grid
17	1/2		16S-17K	Br.-17K	Br.-17K-Dr. Oscillator Grid
18	1/2		16S-17K	Br.-17K	Br.-17K-Dr. Oscillator Grid
19	1/2		16S-17K	Br.-17K	Br.-17K-Dr. Oscillator Grid
20	1/2		16S-17K	Br.-17K	Br.-17K-Dr. Oscillator Grid
21	1/2		16S-17K	Br.-17K	Br.-17K-Dr. Oscillator Grid
22	1/2		16S-17K	Br.-17K	Br.-17K-Dr. Oscillator Grid

**TRANSFORMER (OUTPUT)**

ITEM No.	RATING	REPLACEMENT DATA			INSTALLATION NOTES
		GLOBE PART No.	STANCOR	THORDAR	
IMPEDANCE	DC RES.		Part No.	Part No.	
23	1700	.50	A-2876	T22545	

**PARTS LIST AND DESCRIPTIONS (Continued)**

**SPEAKER**

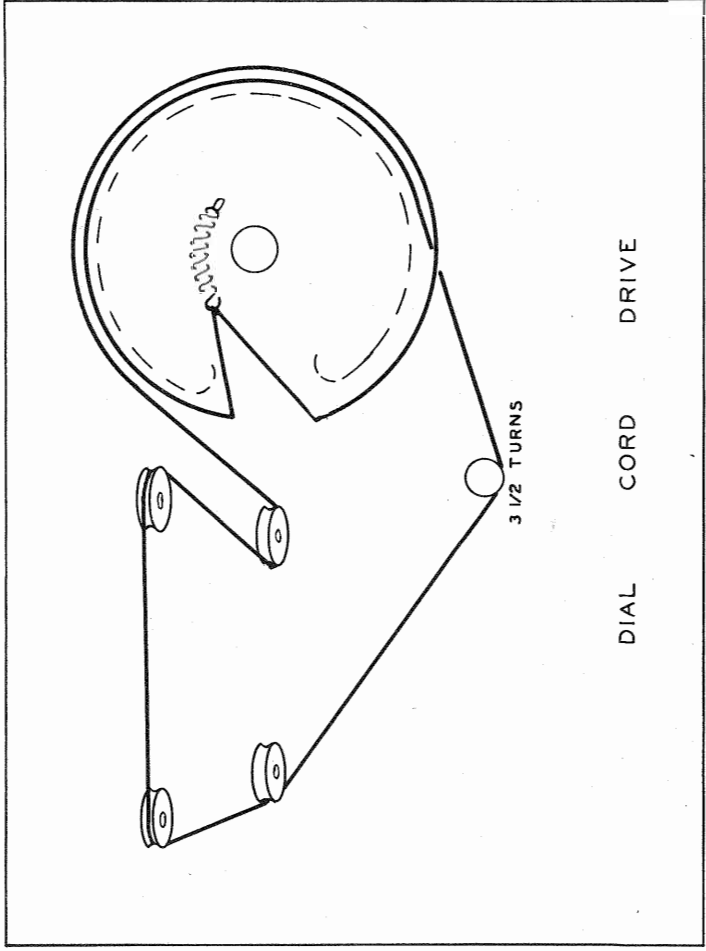
ITEM No.	RATINGS	REPLACEMENT DATA		INSTALLATION NOTES
		GLOBE PART No.	JENSEN PART No.	
24	FIELD RES. 10 IMP. 4500			
25	CONF. DIA. 1/2			NOT READILY REPLACABLE-USE COMPLETE SPEAKER UNIT

**R F COILS**

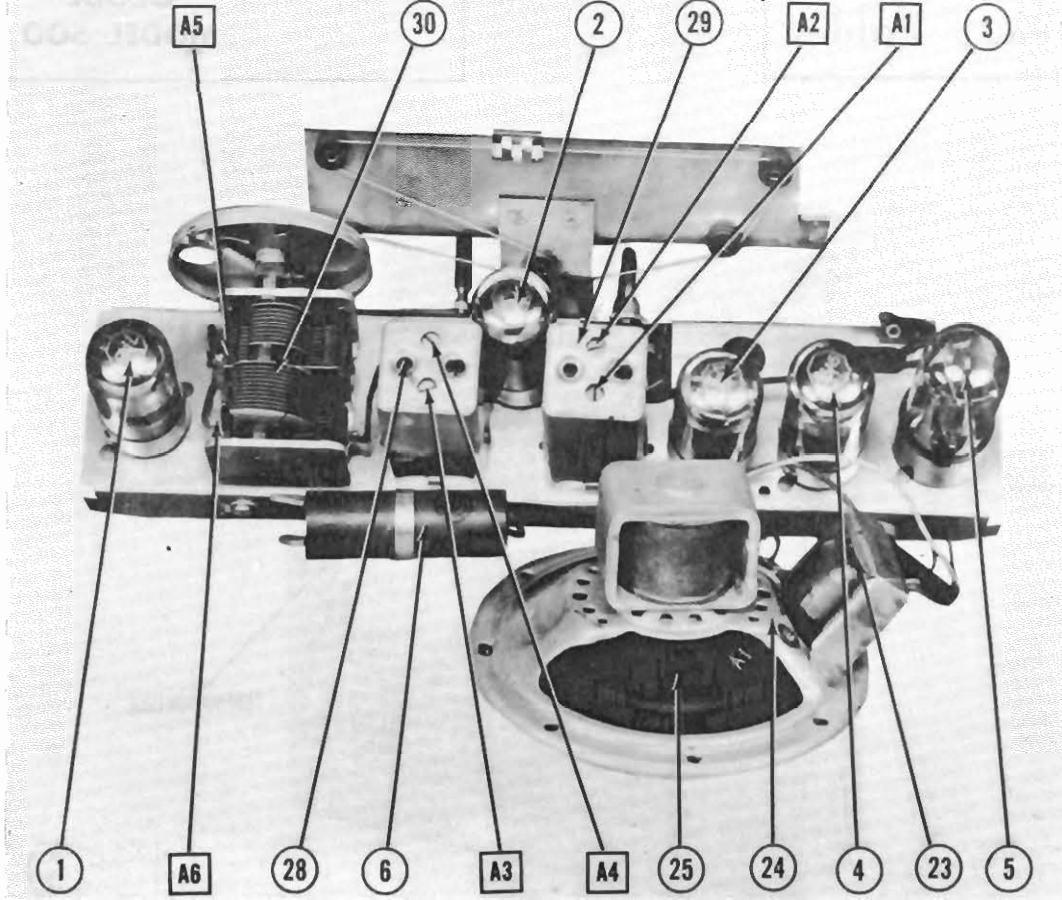
ITEM No.	USE	REPLACEMENT DATA		
		DC RES.	GLOBE PART No.	WEISSNER PART No.
PRI.	SEC.			
26	Loop Ant.	1.50		
27	Dec. Coil	3.50		
28	Input IF	280	171-9	14-1040
29	Output IF	192	675-9	16-6658
				18-6660

**MISCELLANEOUS**

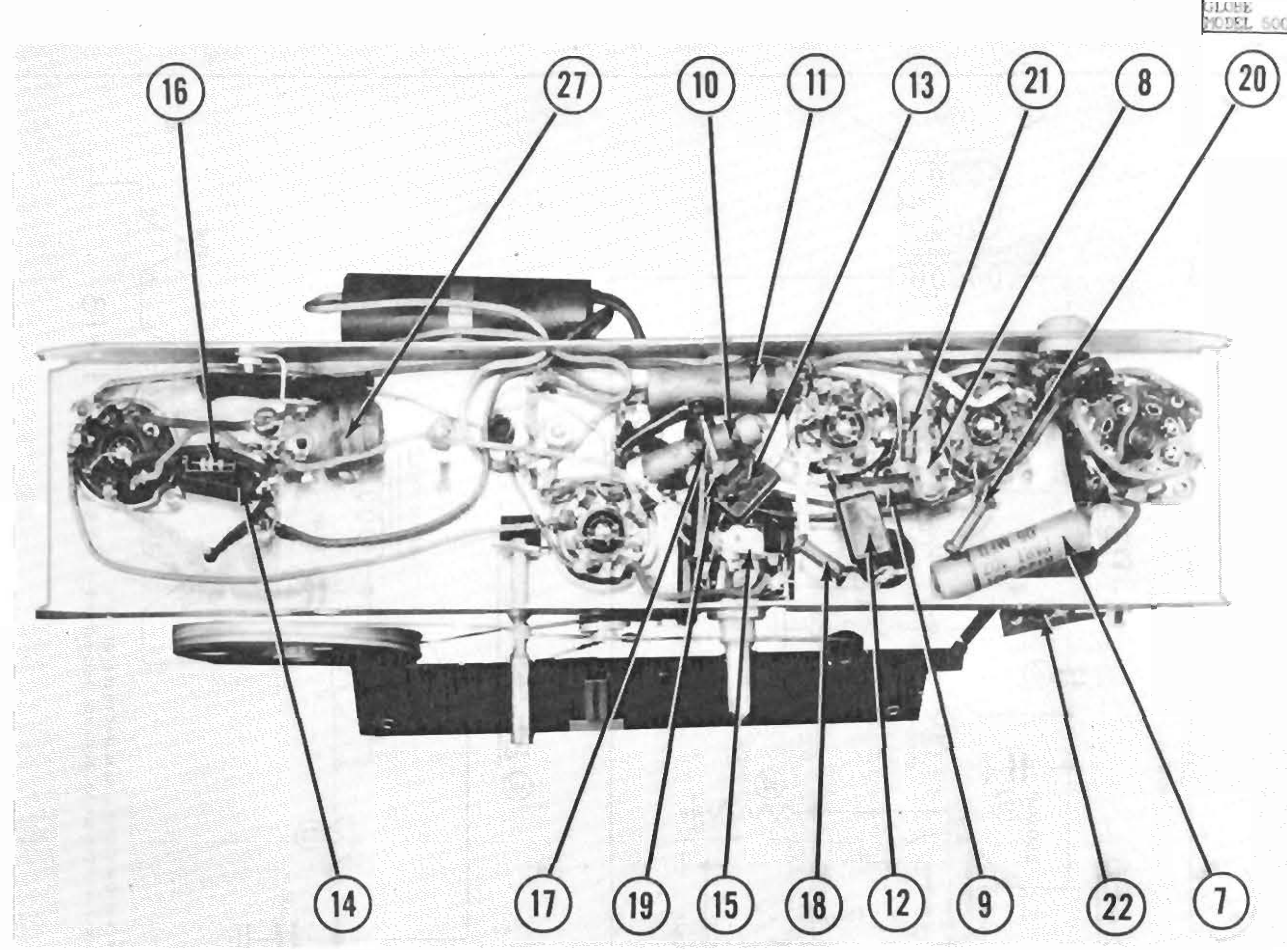
ITEM No.	PART NAME	GLOBE PART No.	NOTES
30	2 Gang Var. Cap		17-350 MFD, 28-102 MFD



**CHASSIS—TOP VIEW**



**CHASSIS—BOTTOM VIEW**



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