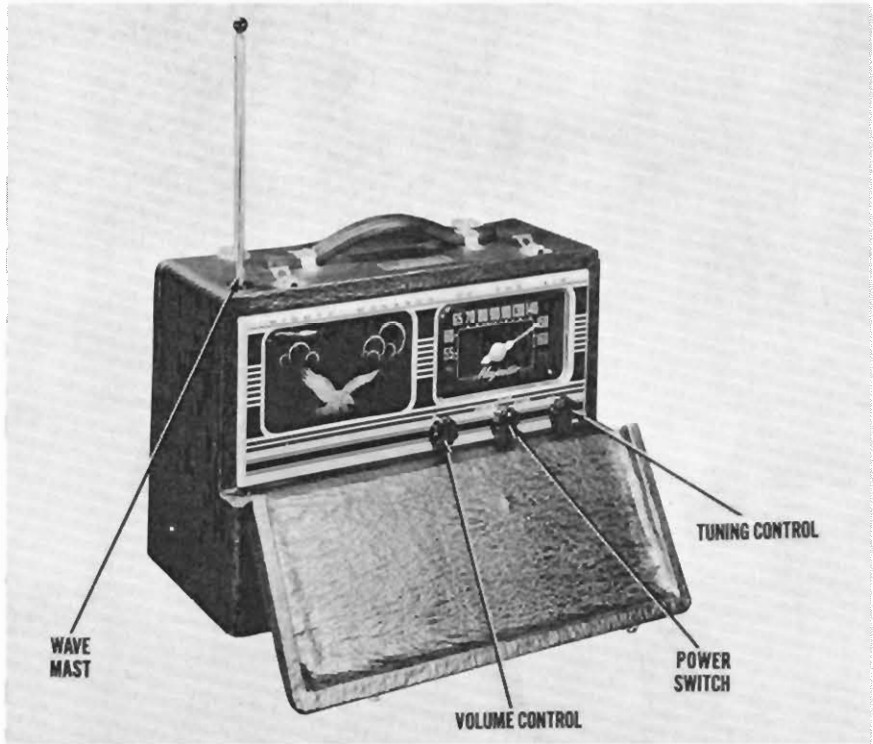


4716-17

MAJESTIC MODEL 7P420
(Ch.4705) BATTERY OPERATED



MAJESTIC MODEL 7P420
(Ch.4705) BATTERY OPERATED

TRADE NAME Majestic, Model 7P420 (Ch. 4705)
MANUFACTURER Majestic Radio & Tel. Corp., ST. Charles, Ill.
TYPE SET Three Power Portable Superheterodyne with Loop Antenna
TUBES (SEVEN) Types, 1U4 RF Amp., 1R5 Converter, 1U4 IF Amp., 1S5 Det.-AVC-AF, 35W4 Power Output (Battery), 50B5 Power Output (AC), 35W4 Rectifier.
POWER SUPPLY 110-120 Volts AC-DC or 9V "A" Supply and 90V "B" Supply
RATING .250 Amps. @ 117V AC or 48MA @ 9V DC and 14MA @ 90V DC
TUNING RANGE—BROADCAST 550-1670KC

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

To set pointer, turn tuning cap. fully closed and set pointer parallel with base of dial. Use battery power when available. If AC power is used, use an isolation transformer when available. If not, connect a .1 MFD capacitor in series with the low side of the signal generator and B-. Loop should be maintained in same relative position to chassis as when receiver is in cabinet. 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.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
1 .01 MFD	High side to Pin 6 (grid) 1R5. Low side to B-.	455KC	High freq. end of dial at a point of non-interference.	Across voice coil	A1,A2, A3,A4.	Adjust for maximum output. If AC power is used without an isolation, transformer reduce dummy ant. to 200MFD to reduce hum modulation.
2	Loop	1500KC	1500KC	"	A5	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output. The trimmer opposite A5 on the osc. section is a factory adjustment and need not be adjusted unless receiver will not calibrate.
3	"	"	Tune for maximum output.	"	A6	Adjust for maximum output. Replace in cabinet.
4	"	"	"	"	A7	Adjust for maximum output.

HOWARD W. SAMs & CO., INC. • 2924 East Washington Street • Indianapolis 6, Indiana

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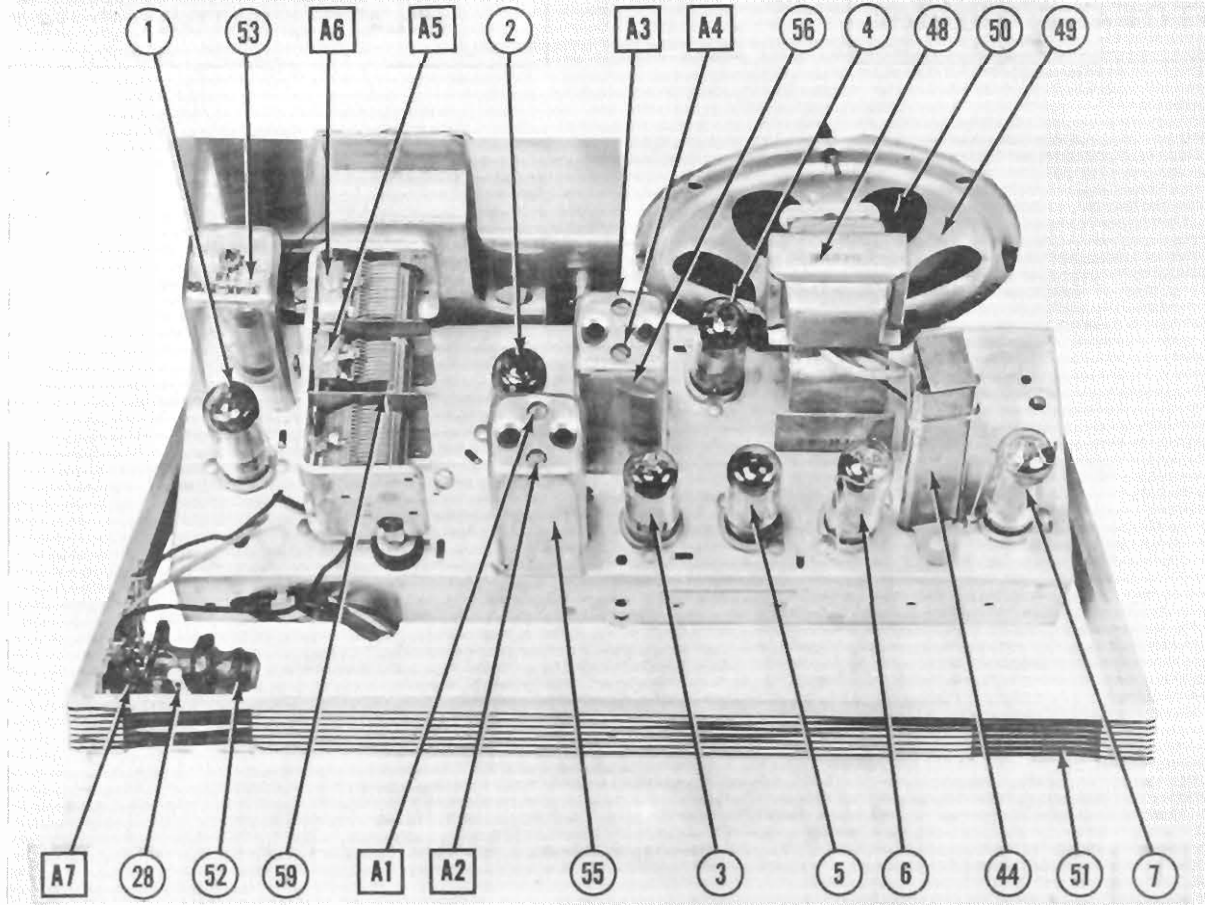
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Printed in U. S. of America
DATE 10/47 SET #26 FOLDER #4716-17

PARTS LIST AND DESCRIPTIONS
TUBES (SYLVANIA or Equivalent)

MAJESTIC MODEL
7F400 (Ch. 4700)
BATTERY OPERATED

CHASSIS—TOP VIEW



PARTS LIST AND DESCRIPTIONS (Continued)
TRANSFORMER (OUTPUT)

ITEM No.	RATING			REPLACEMENT DATA			INSTALLATION NOTES	
	IMPEDANCE	DC RES.	SEC.	MAJESTIC PART No.	STANCOR PART No.	THORDAYN PART No.	MERIT PART No.	
48	PRI. SEC. 3.62 4000 .62							
49	PRI. SEC. 3.62 4000 .62							
50	DC RES. 1.0 1.0							

SPEAKER

ITEM No.	RATINGS		REPLACEMENT DATA		INSTALLATION NOTES	
	PRI.	SEC.	MAJESTIC PART No.	JENSEN PART No.		
51	8.00	2.50	22-8	22-8		
52	8.00	2.50	22-8	22-8		
53	8.00	2.50	22-8	22-8		

R F COILS

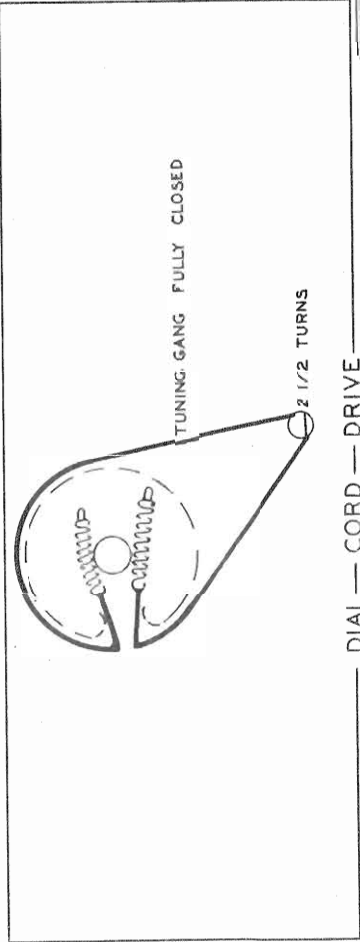
ITEM No.	USE	DC RES.		REPLACEMENT DATA	
		PRI.	SEC.	MAJESTIC PART No.	MESSNER PART No.
54	Loop Ant.	5.00	2.50	20-12	
55	Ant. Coil	5.00	2.50	20-12	
56	RF Coil	2.50	2.50	20-12	
57	Sec. Coil	2.50	2.50	20-12	
58	Input IF	2.50	2.50	20-12	
59	Output IF	2.50	2.50	20-12	

BATTERIES

ITEM No.	VOLTAGE	EVEREADY		INSTALLATION NOTES	
		MAJESTIC PART No.	"A" "B" "A.B."		
60	1.50V				
61	1.50V				

MISCELLANEOUS

ITEM No.	PART NAME	MAJESTIC PART No.	NOTES
59	Switch	11-69 or 11-49	Power
60	3 Gang Var. Cap	7-13	22-465, 22-465, 35-003 192
61	Antenna Plate	20-26	
62	Dial Scale	117-45	
63	Dial Pointer	126-15	
64	Cabinet Knob	116-13	
65	Knob	128-59	(Power Switch) (Tuning & Volume)



DIAL — CORD — DRIVE

MAJESTIC MODEL
7F400 (Ch. 4700)
BATTERY OPERATED

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	
		MAJESTIC PART No.	MALLOY PART No.	SOLAR PART No.	SPRAGUE PART No.	CORNELL-DUBILIER PART No.
66	100 150	10-27		758-3040-150		758-3040-150
67	100 150					
68	100 150					
69	100 150					
70	100 150					
71	100 150					
72	100 150					
73	100 150					
74	100 150					
75	100 150					
76	100 150					
77	100 150					
78	100 150					
79	100 150					
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93	100 150					
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95	100 150					
96	100 150					
97	100 150					
98	100 150					
99	100 150					
100	100 150					

Parallel sections to obtain desired capacity-omit bypass.

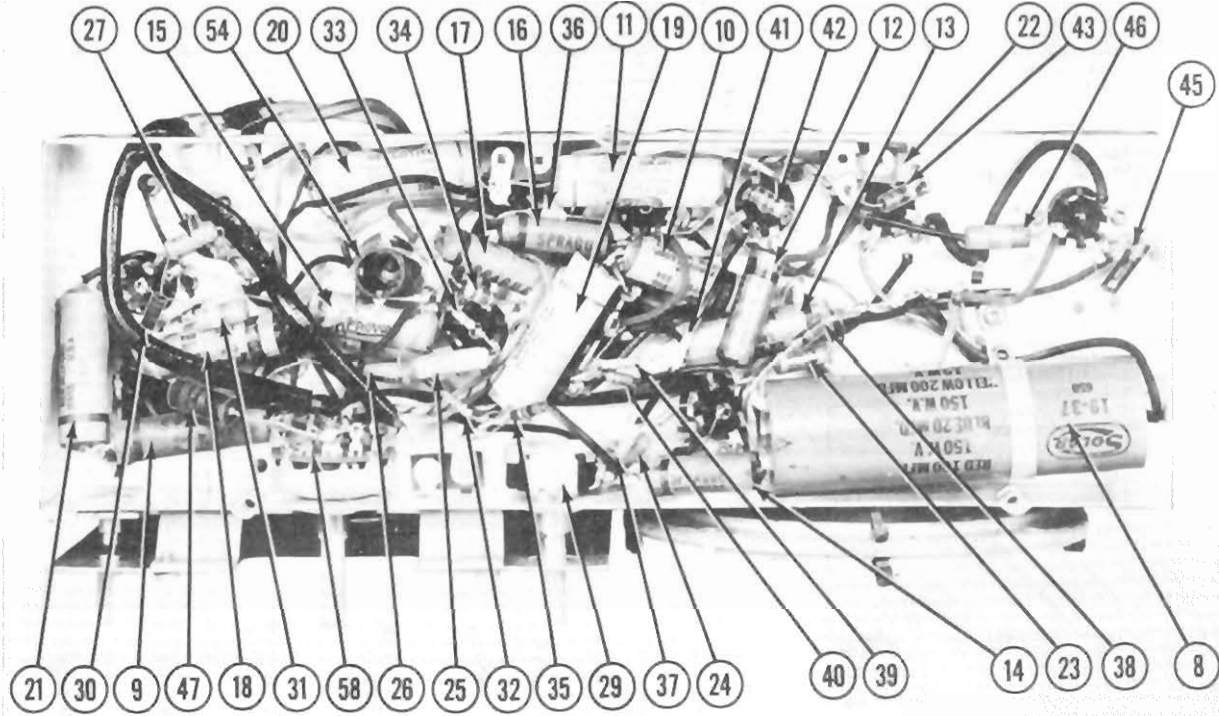
CONTROLS

ITEM No.	RATING	REPLACEMENT DATA			INSTALLATION NOTES	
		MAJESTIC PART No.	MALLOY PART No.	IRC PART No.	CLAROSTAT PART No.	
101	100 150					
102	100 150					
103	100 150					
104	100 150					
105	100 150					
106	100 150					
107	100 150					
108	100 150					
109	100 150					
110	100 150					
111	100 150					
112	100 150					
113	100 150					
114	100 150					
115	100 150					
116	100 150					
117	100 150					
118	100 150					
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120	100 150					
121	100 150					
122	100 150					
123	100 150					
124	100 150					
125	100 150					
126	100 150					
127	100 150					
128	100 150					
129	100 150					
130	100 150					

RESISTORS

ITEM No.	RATING	REPLACEMENT DATA			IDENTIFICATION CODES	
		MAJESTIC PART No.	MALLOY PART No.	IRC PART No.		
131	2.2 Meg.	9-314				
132	2.2 Meg.	9-314				
133	2.2 Meg.	9-314				
134	2.2 Meg.	9-314				
135	2.2 Meg.	9-314				
136	2.2 Meg.	9-314				
137	2.2 Meg.	9-314				
138	2.2 Meg.	9-314				
139	2.2 Meg.	9-314				
140	2.2 Meg.	9-314				
141	2.2 Meg.	9-314				
142	2.2 Meg.	9-314				
143	2.2 Meg.	9-314				
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145	2.2 Meg.	9-314				
146	2.2 Meg.	9-314				
147	2.2 Meg.	9-314				
148	2.2 Meg.	9-314				
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194	2.2 Meg.	9-314				
195	2.2 Meg.	9-314				
196	2.2 Meg.	9-314				
197	2.2 Meg.	9-314				
198	2.2 Meg.	9-314				
199	2.2 Meg.	9-314				
200	2.2 Meg.	9-314				

CHASSIS—BOTTOM VIEW



MAJESTIC MODEL
7F400 (Ch. 4700)
BATTERY OPERATED