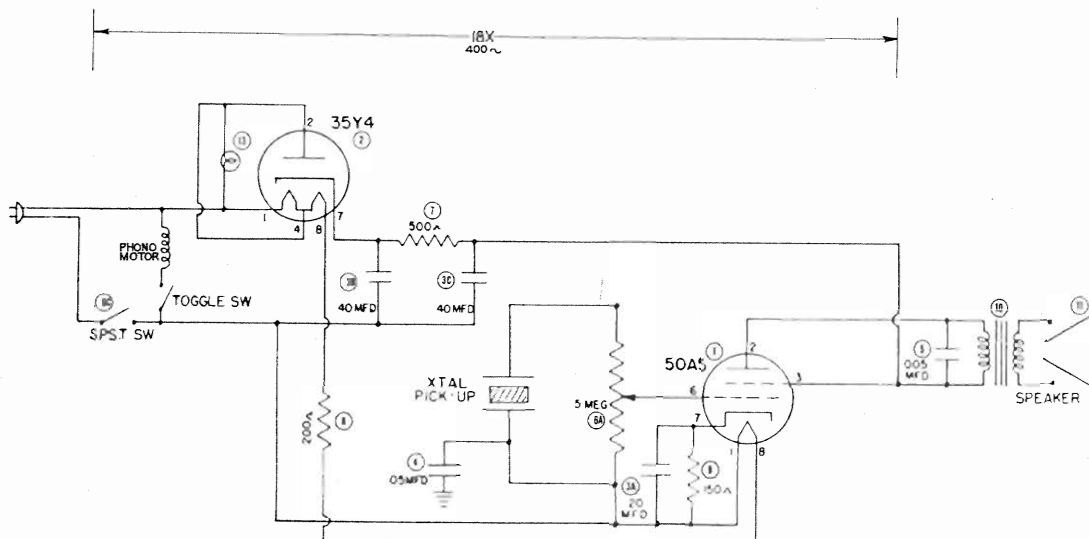




AIRCASTLE MODEL 621

TRADE NAME Aircastle Model 621 (Ch. FJ-91)
 SUPPLIER Spiegel Inc., 1061 W. 35th St., Chicago, Ill.
 TYPE SET AC Operated Portable Phono. with 2 Tube Amplifier & Speaker
 TUBES (TWO) Types, 50A5 Power Amplifier, 35Y4 Rectifier.
 POWER SUPPLY 105-125 Volts AC RATING .235 Amps. @ 117V AC



VOLTAGE READINGS									
Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	50A5	ON	82VDC	97VDC	ON	ON	7.8VDC	55VAC	
2	35Y4	87VAC	103VAC	ON	113VAC	117VAC	ON	123VDC	87VAC

RESISTANCE READINGS									
Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	50A5	ON	35KΩ	35KΩ	ON	INF.	45MΩ	50Ω	50Ω
2	35Y4	272Ω	270Ω	ON	270Ω	272Ω	ON	35KΩ	240Ω

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

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

474-2

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 $\pm 10\%$ in voltage and resistance readings.
6. Volume control at maximum, no signal applied for voltage measurements.

HOWARD W. SAMS & CO., INC.

"The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed."

"Reproduction or use, without express permission, of editorial or pictorial con-

Indianapolis Indiana

tent, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. Copyright 1947 by Howard W. Sams & Co., Inc., Indianapolis, Indiana, U. S. A. Copyright under International Copyright Union. All rights reserved under Inter-American Copyright Union (1910) by Howard W. Sams & Co., Inc."

PARTS LIST AND DESCRIPTIONS
TUBES

ITEM No.	USE	REPLACEMENT DATA			INSTALLATION NOTES
		AIRCRAFTLE PART No.	STANDARD REPLACEMENT	RMA BASE TYPE	
1	Power Output	50A5	50A5	6AA	
2	Rectifier	35Y4	35Y4	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
		AIRCRAFTLE PART No.	SPRAGUE PART No.	AEROVOX PART No.	CORNEILL DUBILIER PART No.	MALLORY PART No.	
3A	40 CAP. VOLT	A-25.020	TA-440	FRE1150-10	BD04115	2N5111	Filter - Red
B	150						
C	250						
4	200						
5	.005						
6	800						
7	100						
8	250						
9	200						
10	200						
11	200						
12	200						
13	200						
14	200						
15	200						
16	200						
17	200						
18	200						
19	200						
20	200						
21	200						
22	200						
23	200						
24	200						
25	200						
26	200						
27	200						
28	200						
29	200						
30	200						
31	200						
32	200						
33	200						
34	200						
35	200						
36	200						
37	200						
38	200						
39	200						
40	200						
41	200						
42	200						
43	200						
44	200						
45	200						
46	200						
47	200						
48	200						
49	200						
50	200						
51	200						
52	200						
53	200						
54	200						
55	200						
56	200						
57	200						
58	200						
59	200						
60	200						
61	200						
62	200						
63	200						
64	200						
65	200						
66	200						
67	200						
68	200						
69	200						
70	200						
71	200						
72	200						
73	200						
74	200						
75	200						
76	200						
77	200						
78	200						
79	200						
80	200						
81	200						
82	200						
83	200						
84	200						
85	200						
86	200						
87	200						
88	200						
89	200						
90	200						
91	200						
92	200						
93	200						
94	200						
95	200						
96	200						
97	200						
98	200						
99	200						
100	200						

CONTROLS

ITEM No.	RATING	REPLACEMENT DATA				INSTALLATION NOTES
		AIRCRAFTLE PART No.	MALLORY PART No.	IRC PART No.	CLAROSTAT PART No.	
1	100	A-2007	Not Req.	Not Req.	Not Req.	Volume Control
2	100	A-2007	Not Req.	Not Req.	Not Req.	Attach to 6A per instructions
3	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
4	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
5	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
6	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
7	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
8	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
9	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
10	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
11	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
12	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
13	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
14	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
15	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
16	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
17	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
18	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
19	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
20	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
21	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
22	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
23	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
24	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
25	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
26	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
27	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
28	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
29	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
30	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
31	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
32	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
33	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
34	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
35	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
36	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
37	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
38	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
39	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
40	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
41	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
42	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
43	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
44	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
45	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
46	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
47	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
48	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
49	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
50	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
51	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
52	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
53	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
54	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
55	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
56	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
57	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
58	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
59	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
60	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
61	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
62	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
63	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
64	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
65	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
66	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
67	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
68	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
69	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
70	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
71	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
72	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
73	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
74	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
75	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
76	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
77	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
78	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
79	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
80	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
81	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
82	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
83	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
84	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
85	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
86	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
87	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
88	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
89	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
90	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
91	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
92	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
93	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
94	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
95	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
96	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
97	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
98	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
99	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A
100	100	A-2007	Not Req.	Not Req.	Not Req.	SW-A

RESISTORS

ITEM No.	RATING	REPLACEMENT DATA		IDENTIFICATION CODES
		AIRCRAFT PART No.	IRC PART No.	
7	500Ω	2	BT-2-500	Grn.-Blk.-Br. Filter
8	200Ω	10	AB-200	Line Dropping
9	150Ω	1/2	BW-4-150	Br.-Grn.-Br. Output Cathode