

487-22

Pin	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7
2	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7
3	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7
4	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7
5	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7
6	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7
7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7
8	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7

Pin	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7
2	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7
3	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7
4	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7
5	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7
6	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7
7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7
8	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7

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3	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7
4	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7
5	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7
6	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7
7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7
8	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7	12SK7

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

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

A PHOTOFACT STANDARD NOTATION SCHEMATIC

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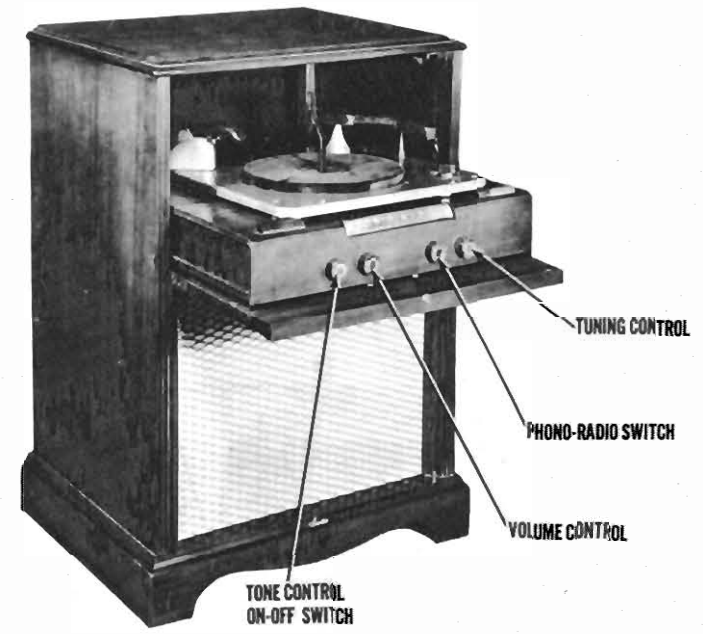
The stage gain measured values listed above are approximate values for an average operative stage, rather than an absolute value. It should be borne in mind that it is possible to introduce so many variables into the measurement operation, such as, type of equipment used for measuring, handling and placement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

1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltages measured at 1,000 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.

SPARTON MODELS 1030, 1030A (Ch. 6L8)

PHOTOFACT* Folder

SPARTON MODELS 1030, 1030A (Ch. 6L8)



SPARTON MODEL 1030

TRADE NAME Sparton, Models 1030, 1030A (Ch. 6L8)

MANUFACTURER Sparks Withington Co., Jackson, Mich.

TYPE SET AC Operated Combination Phono-Radio Superheterodyne Receiver with Loop Antenna

TUBES (SIX) Types, 12SK7 RF Amp., 12SA7 Converter, 12SK7 IF Amp., 12SQ7 Det.-AVC-AF, 35L6GT Power Output, 35Z5GT Rectifier.

POWER SUPPLY 110-120 Volts AC

TUNING RANGE—BROADCAST 540-1600KC

RATING .26 Amp. @ 117 Volts AC

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

There are three calibration marks on dial backplate. Reading from left to right they are: end limit, 600KC and 1500KC. Turn tuning cap. fully closed and set pointer to end limit mark. Use isolation transformer if available. If not connect a .1 MFD capacitor in series with low side of 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 .02 MFD	High side to Pin 6 (grid) 12SA7. Low side to B-.	456KC	Tuning cap. fully open.	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.
2 .02 MFD	High side to ext. ant. clip. Low side to B-.	"	Tuning cap. fully closed	"	A5	Adjust for minimum output.
3	Loop	1500KC	1500KC calibration mark	"	A6	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.
4	"	"	Tune for maximum output.	"	A7	Adjust for maximum output.
5	"	600KC	"	"	A8	Mock tuning cap. and adjust for maximum output. Repeat Steps 3, 4 and 5 until no further improvement can be made.

- DISASSEMBLY INSTRUCTIONS
1. Remove speaker leads from speaker.
 2. Remove loop leads from loop antenna.
 3. Roll changer and chassis drawer out. Lift up on front of drawer and remove from cabinet.
 4. Lift up changer and disconnect phono-motor plug. Remove phono-pickup plug from chassis. Remove changer from mounting board.
 5. Remove three hex head screws holding chassis in cabinet. Slide chassis out of drawer.
 6. Remove two hex nuts holding speaker in cabinet. Remove speaker from cabinet.
 7. Remove two wood screws holding loop in cabinet. Remove loop from cabinet.

HOWARD W. SAMs & CO., INC.

Indianapolis Indiana

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DATE 3/48-#487-22 SET #37-FOLDER #22

Printed in U. S. of America

SPARTON MODELS 1030, 1030A (Ch. 6L8)

SPARTON MODEL 1030

PARTS LIST AND DESCRIPTIONS
TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	INSTALLATION NOTES
		SPARTON PART No.	STANDARD REPLACEMENT		
1	RF Amp.	12SK7	12SK7	8N	
2	Converter	12SA7	12SA7	8R	
3	IF Amp.	12SK7	12SK7	8N	
4	Det.-AVC-AF	12S70T	12S70T	84	
5	Power Output	35L6GT	35L6GT	7AC	
6	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
		SPARTON PART No.	SPRAGUE PART No.	AEPOVOX PART No.	
7A	40 CAP. 150V	PC4304-1	EL-35	AF300D	Filter
B	50				
8	150	PC400L-403	7C-15	484-05	Rectifier Bypass
9	.05	PC400L-303	7C-15	484-05	Output Plate Bypass
10	.03	PC400L-102	7C-11	484-01	Tone Comp.
11	.01	PC400L-102	7C-11	484-01	RF Stage Power Supply
12	.01	PC400L-102	7C-11	484-01	RF Stage Power Supply
13	.01	PC400L-102	7C-11	484-01	RF Stage Power Supply
14	.05	PC400L-503	7C-15	484-05	AVC Coupling
15	.05	PC400L-503	7C-15	484-05	AVC Coupling
16	.05	PC400L-503	7C-15	484-05	AVC Coupling
17	.01	PC400L-102	7C-11	484-01	RF Cathode Bypass
18	510	PC400L-511	17F-25	1468-0005	510 Ohm Res.
19	510	PC400L-511	17F-25	1468-0005	510 Ohm Res.
20	100	PC400L-101	17F-21	1468-0001	100 Ohm Res.
21	150	PC400L-151	17F-21	1468-0001	150 Ohm Res.

CONTROLS

ITEM No.	RATING	REPLACEMENT DATA			INSTALLATION NOTES
		SPARTON PART No.	IRC PART No.	CLAROSTAT PART No.	
21A	1/2 WATT	PC400L-503	7C-15	484-05	Volume Control
21B	1/2 WATT	PC400L-503	7C-15	484-05	Volume Control
22A	1/2 WATT	PC400L-503	7C-15	484-05	Tone Control
22B	1/2 WATT	PC400L-503	7C-15	484-05	Tone Control
22C	1/2 WATT	PC400L-503	7C-15	484-05	Tone Control

RESISTORS

ITEM No.	RATING	REPLACEMENT DATA			IDENTIFICATION CODES
		SPARTON PART No.	IRC PART No.	SPARTON PART No.	
23	500K	PC400L-503	7C-15	484-05	Grn.-Blk.-Yl. RF Grid
24	470K	PC400L-473	7C-13	484-03	Yl.-Blk.-Gr. RF Cathode
25	10 M.	PC400L-103	7C-11	484-01	Br.-Blk.-Blue AVC Network
26	50K	PC400L-503	7C-15	484-05	Blue-Gray-Or. Converter Grid
27	24K	PC400L-243	7C-11	484-01	Red-Red-Or. Oscillator Grid
28	510K	PC400L-513	7C-15	484-05	Grn.-Red-Red Rf. Plate Load
29	1 M.	PC400L-103	7C-11	484-01	Grn.-Blk.-Grn. AVC Network
30	50K	PC400L-503	7C-15	484-05	Grn.-Blk.-Blue AF Grid
31	10 M.	PC400L-103	7C-11	484-01	Br.-Blk.-Yl. AF Plate Load
32	270K	PC400L-273	7C-13	484-03	Br.-Gray-Gr. Output Cathode
33	100K	PC400L-103	7C-11	484-01	Br.-Red-Red Filter
34	100K	PC400L-103	7C-11	484-01	Gray-Red-Blk. Pilot Light Shunt
35	100K	PC400L-103	7C-11	484-01	

TRANSFORMER (OUTPUT)

ITEM No.	RATING	REPLACEMENT DATA			INSTALLATION NOTES
		SPARTON PART No.	STANCOR PART No.	THORDARN PART No.	
36	2500VA 115V	PC400L-250	AB44059-2	A-25764	*Add extra filter to reduce hum level.

PARTS LIST AND DESCRIPTIONS (Continued)
SPEAKER

ITEM No.	RATINGS	REPLACEMENT DATA			INSTALLATION NOTES
		SPARTON PART No.	JENSEN PART No.	QUAM PART No.	
37	FIELD 3.5W	PC400L-350	ST-1204-1	10M31*	*Drill new mounting holes. Replace output transformer to match 8-82 voice coil.
38	DC DIA. 1"				

R F COILS

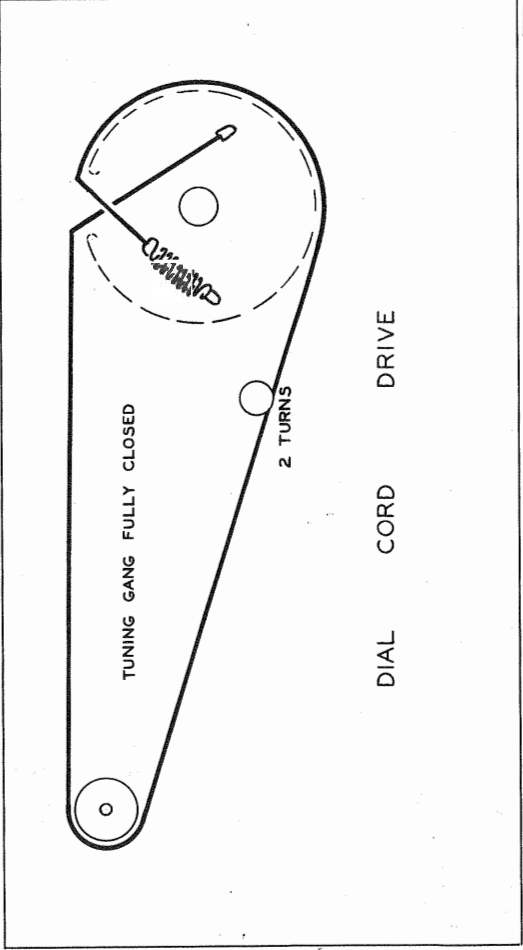
ITEM No.	USE	REPLACEMENT DATA		
		DC RES. PRI. SEC.	SPARTON PART No.	MEISSNER PART No.
39	Loop Ind.	1.2K	ACB701B-1	
40	Coil Load.	1.2K	AA6886-1	14-1080
41	Osc. Coil	.4K	AA6877-2	16-6656
42	Input IF	.5K	AA6800-1	16-6656
43	Output IF	.5K	AA6800-1	16-6656
44	Wave Trap	.25K	AA6877-1	

DIAL LIGHT

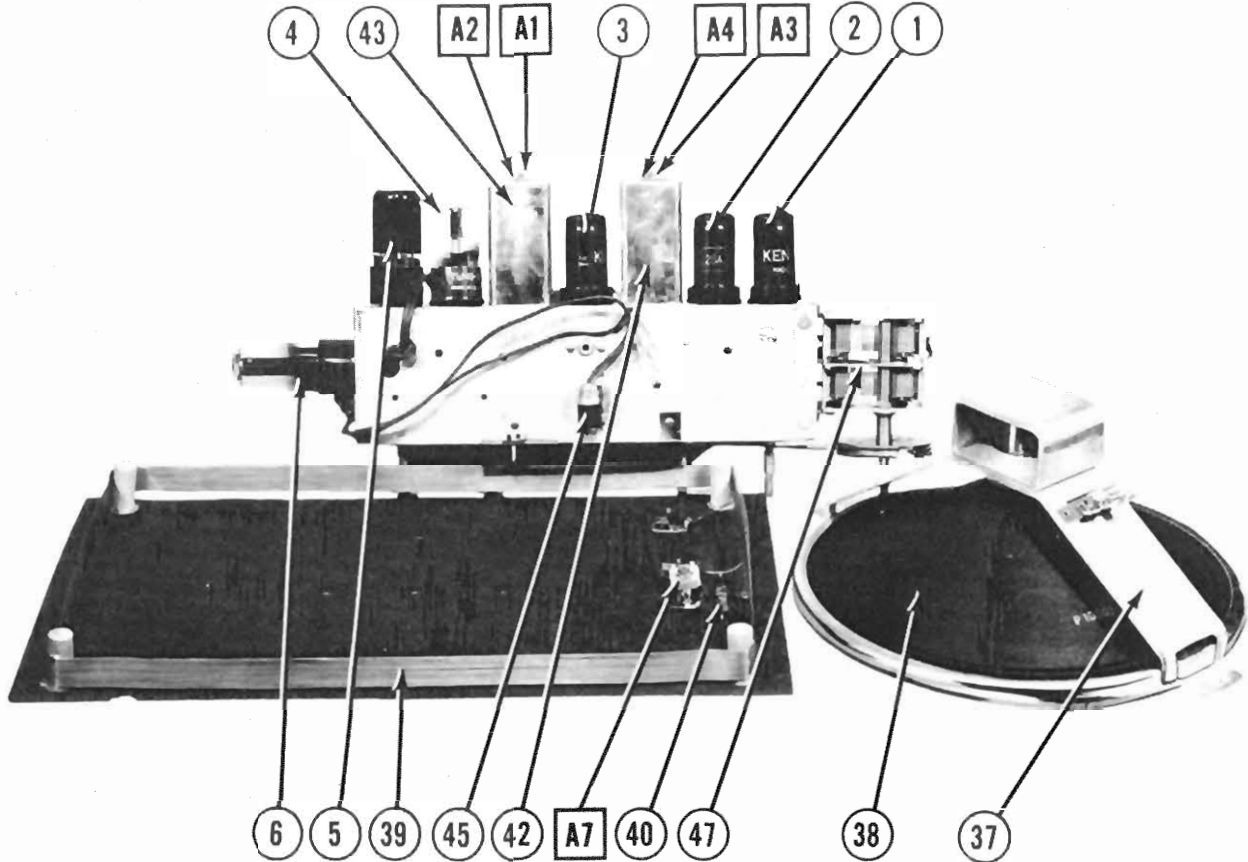
ITEM No.	BASE TYPE	VOLTS	AMPS.	REPLACEMENT DATA		INSTALLATION NOTES
				BEAD COLOR	SPARTON PART No.	
45	Bayonet	7.5	0.2	White		Type 51

MISCELLANEOUS

ITEM No.	PART NAME	SPARTON PART No.	NOTES
46	Switch	PA4002-2	Radio-Phono (12-412 TFF), each section
47	2 Gang Var. Cap.	PA40410	(Osc. Pad.)
48	Trimmer Strip	PA4351	(Osc. Adj.)
49	Dial Pointer	PA4348	



CHASSIS—TOP VIEW



CHASSIS—BOTTOM VIEW

