



SPARTON MODELS
350, 351, 1300, 1301 (Ch. 6L3)



ON-OFF SWITCH VOLUME CONTROL

RADIO-PHONO SWITCH

TUNING CONTROL

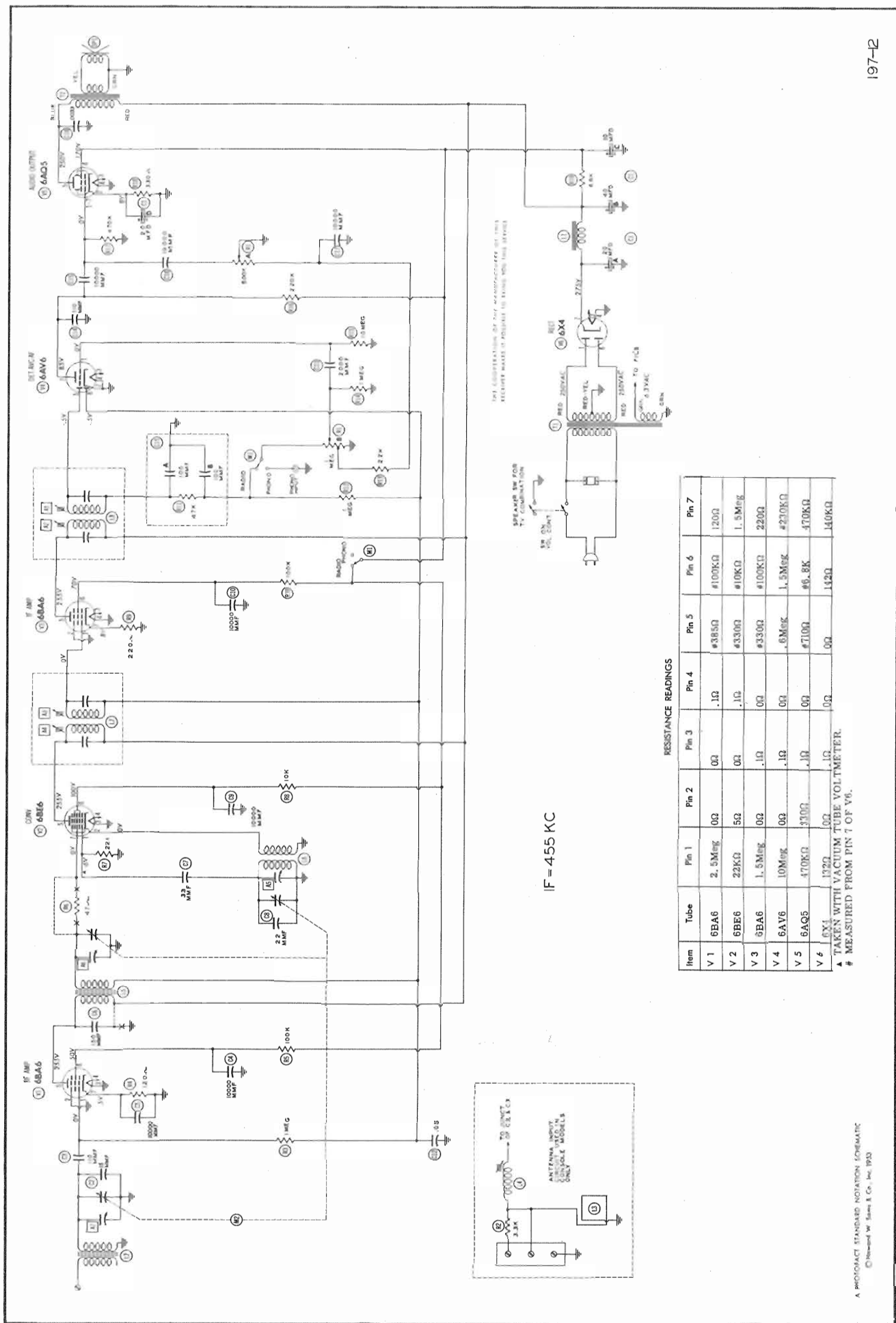
TRADE NAME	Spartan Models 350, 351, 1300, 1301 (Ch. 6L3)					
MANUFACTURER	Sparks-Withington Co., Jackson, Michigan					
TYPE SET	AC Operated AM Superheterodyne Receiver (Models 1300, 1301 Radio-Phono Combinations)					
TUBES (Six)	Types 6BA6 RF Amp., 6BE6 Conv., 6BA6 IF Amp., 6AV6 Det.-AVC-AF Amp., 6AQ5 Audio Output, 6X4 Rectifier					
POWER SUPPLY	110-120 Volts AC - 60 Cycle					
TUNING RANGE—BROADCAST	535-1620 KC		RATING	.32 Amp. @ 117 Volts AC		
ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT						
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
.02MFD	High side to pin 7 (grid) of 6BE6 (V2). Low side to chassis.	456KC	Tuning gang fully open.	Across voice coil.	A1, A2, A3, A4	Adjust for maximum output.
"	"	1620KC	"	"	A5	"
	Loop.	1500KC	Tune to 1500KC signal.	"	A6, A7	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.
Coil L4 has been accurately preset at the factory and should not be adjusted in the field.						
Replace receiver in cabinet, turn tuning gang fully closed and set pointer to index mark at low frequency end of dial.						
FOR SERVICE INFORMATION ON RECORD CHANGER UNIT SEE V-M MODEL 950 - PHOTOFACET SET 107, FOLDER 13 OR RECORD CHANGER MANUAL CM-3.						

HOWARD W. SAMS & CO., INC. • Indianapolis 5, Indiana

"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-

ment, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. Copyright 1953 by Howard W. Sams & Co., Inc., Indianapolis 5, Indiana, U. S. of America. Copyright under International Copyright Union. All rights reserved under Inter-American Copyright Union (1910) by Howard W. Sams & Co., Inc." Printed in U. S. of America



© Howard W. Sams & Co., Inc. 1983

197-12

CHASSIS—TOP VIEW

ITEM No.	USE	REPLACEMENT DATA		RTMA BASE TYPE	INSTALLATION NOTES
		SPARTON PART No.	STANDARD REPLACEMENT		
V1	RF Amplifier	6BA6	6BA6	7BK	
V2	Converter	6HE6	6BE6	7CH	
V3	IF Amplifier	6BA6	6BA6	7BK	
V4	Det.-AFC-AF Amp.	6AV6	6AV6	7BT	
V5	Audio Output	6AQ5	6AQ5	7B2	
V6	Rectifier	6X4	6X4	5BS	


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		SPARTON PART No.	AEROVOX PART No.	CENTRALAB PART No.	REPLACEMENT DATA		MALLYORY PART No.	SPRAGUE PART No.	NOTES
	CAP.	VOLT				CORNEILL DUBILIER PART No.	ERIE PART No.			
C1A	#20	350	PA4307-32	E4D572					R1298	
B	40	350								
D	200	200								
C	20	25								
C2	15		PA4347-1	SI15NP0	TCZ-15		NP0K-150	2T-5415	5TCC-Q15	
C3	10		CC330H-11A		TCN-110		N7501-111			
C4	10000		PA4334-2	BPD-01	DD-103	TM581	5HK-S1	DC-S11	5HK-S1	
C5	10000		PA4334-2	BPD-01	DD-103	TM581	5HK-S1	DC-S11	5HK-S1	
C6	150				TCN-150		N7501-151	DC-S11	5HK-S1	
C7	150		PA4347-2		TCN-330		N750K-330	5TCC-Q33	5TCC-Q33	
C8	22		PA4347-4	BPD-01	TCN-22		N750K-220	5TCC-Q22	5TCC-Q22	
C9	10000		PA4334-2	BPD-01	DD-103	TM581	5HK-S1	DC-S11	5HK-S1	
C10	10000		PA4334-2	BPD-01	DD-103	TM581	5HK-S1	DC-S11	5HK-S1	
C11A	100		PA4329-1	SI1000	*PC-50	TM571	1403-01	UC-531	100C1	
C12	100			SI1100		TM571		UC-531		
C12	05	400	PC40GR-503	P488-05	DF-503	PT485	801-002	PT415	4TM-85	
C13	2000		PA4334-3	BPD-002	DD-302	TM5D5	N7501-111	DC-522	5HK-D2	
C14	110		CC330H-11A		TCN-110					
C15	10000			BPD-01	DD-103	TM581	5HK-S1	DC-S11	5HK-S1	
C16	10000		PA4334-2	BPD-01	DD-103	TM581	5HK-S1	DC-S11	5HK-S1	
C17	10000		PA4334-2	BPD-01	DD-103	TM581	5HK-S1	DC-S11	5HK-S1	
C18	0033	1000	PC42GN-332	P1088-0033		PT5ED33	821-01	PT10233	MB-D33	

Note 1: Some models use 47MMF NPO in this application (Part No. PA4347-3).
e: Items C1A, C1B, R11 are combined in one unit.

CONTROLS

ITEM No.	RATING		REPLACEMENT DATA				INSTALLATION NOTES
	RESISTANCE	WATTS	SPARTON PART No.	IBC PART No.	CLAROSTAT PART No.	MALLOY PART No.	
RIA B	500KΩ		PA-4459				Tone - Panel, Volume & Switch Tapped 600KΩ - Rear.

RESISTORS

ITEM No.	RATING OHMS WATT	REPLACEMENT DATA		ITEM No.	RATING OHMS WATT	REPLACEMENT DATA		ITEM No.	RATING OHMS WATT	REPLACEMENT DATA	
		SPARTON PART No.	IRC PART No.			SPARTON PART No.	IRC PART No.			SPARTON PART No.	IRC PART No.
R2	3300Ω	BR12N-332	BTS-3300	R11	47KΩ	BR12N-47K	BTS-47K				
R3	1MΩ	BR12N-105	BTS-1MΩ	R12	1MΩ	BR12N-105	BTS-1MΩ				
R4	120Ω	BR12S-121	BTS-120	R13	22KΩ	BR12N-223	BTS-22K				
R5	100KΩ	BR12S-104	BTS-100K	R14	1MΩ	BR12N-106	BTS-1MΩ				
R6	47Ω			R15	10MΩ	BR12N-106	BTS-10MΩ				
R7	27KΩ	BR12N-223	BTS-22K	R16	220KΩ	BR12N-224	BTS-220K				
R8	10KΩ	BR12S-103	BTS-10K	R17	470KΩ	BR12N-474	BTS-470K				
R9	220Ω	BR12S-221	BTS-220	R18	330Ω	CR12S-331	BTS-330				
R10	100KΩ	BR12S-104	BTS-100K	R19	6800Ω	CR12S-682	BTS-6800				

Note 1: Used only in console models.

•: Items RII, CIIA, CIIIB are combined in one unit.

PARTS LIST AND DESCRIPTIONS (Continued)

TRANSFORMER (POWER)

ITEM No.	RATING				REPLACEMENT DATA				
	PRI.	SEC. 1	SEC. 2	SEC. 3	SPARTON PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	TRIAD PART No.
TI	117V	485VCT	6.3V		AB44031-1	PM-8419	P-3047		R-8B
③. 32A									
Drill new mounting holes.									

① Drill new mounting holes.

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING				REPLACEMENT DATA					NOTES
	IMPEDANCE		DB RES.		SPARTON PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	TRIAD PART No.	
	PRI.	SEC.	PRI.	SEC.						
T2	0500	3.40	3900	.480	AE444007-1	A-3877 ①	A-2920 ①	RO-301 ①	S-3X ①	

① Drill one new mounting hole.

SPEAKER

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	SIZE	FIELD	V. C. IMP.	SPARTON PART No.	JENSEN PART No.	QUAM PART No.	
		PM	3.4Ω				
SP1	5"	PM	3.4Ω	PC-4300047	ST-105 Mod. PS-X	5A07	

FILTER CHOKE

RATINGS			REPLACEMENT DATA					
ITEM No.	TOTAL DIRECT CURRENT	D. C. RESISTANCE	INDUCTANCE TO CURRENT (1000 μ)	SIPARTON PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	TRIAD PART No.
L1	.045	3150	6HY	AB47011-1	C-1708 ①			C-6X ①

① Drill one new mounting hole.

① Drill one new mounting hole.

COILS (RF-IF)

ITEM No.	USE	DC RES.		REPLACEMENT DATA		NOTES
		PRI	SEC.	SPARTON PART No.	MERIT PART No.	
L2	Loop Antenna	00	.20	AB43502-2		Used only in console models.
L3	Loop Antenna			PA3250-11		
L4	Ant. Loading					
L5	RF Coil	700	3.10	AA6618-3		
L6	Osc. Coil	.60	50	AA6412-1	BC-382	
L7	Input IF	130	13.50	AA6411-1	BC-397*	
L8	Output IF	130	13.50	AB42201-3	BC-382	
				AB42201-3	BC-353	
						Used only in console models.

* Drill mounting hole.

MISCELLANEOUS

ITEM No.	PART NAME	SPARTON PART No.	NOTES
M1	Switch	PB40415	Radio - Photo.
M2	Tuning Capacitor	PA5659-1	48-473 Microhenries; 48-473 Microhenries.
	Knob	PA5659-2	Off/On Volume (Maroon) Models 350 & 1300.
	Knob	PA5660-1	Off/On Volume (Green) Models 351 & 1301.
	Knob	PA5660-2	Tone (Maroon) Models 350 & 1300.
	Knob	PA5660-3	Tone (Green) Models 351 & 1301.
	Knob	PA5661-1	Switch & Dial (Maroon) Models 350 & 1300 (2 Used).
	Knob	PA5661-2	Switch & Dial (Green) Models 351 & 1301 (2 Used).

SET 197

FOLDER 12

SPARTON
MODEL 350 (Ch. 6L3)

