

PHILCO
MODEL CR-501

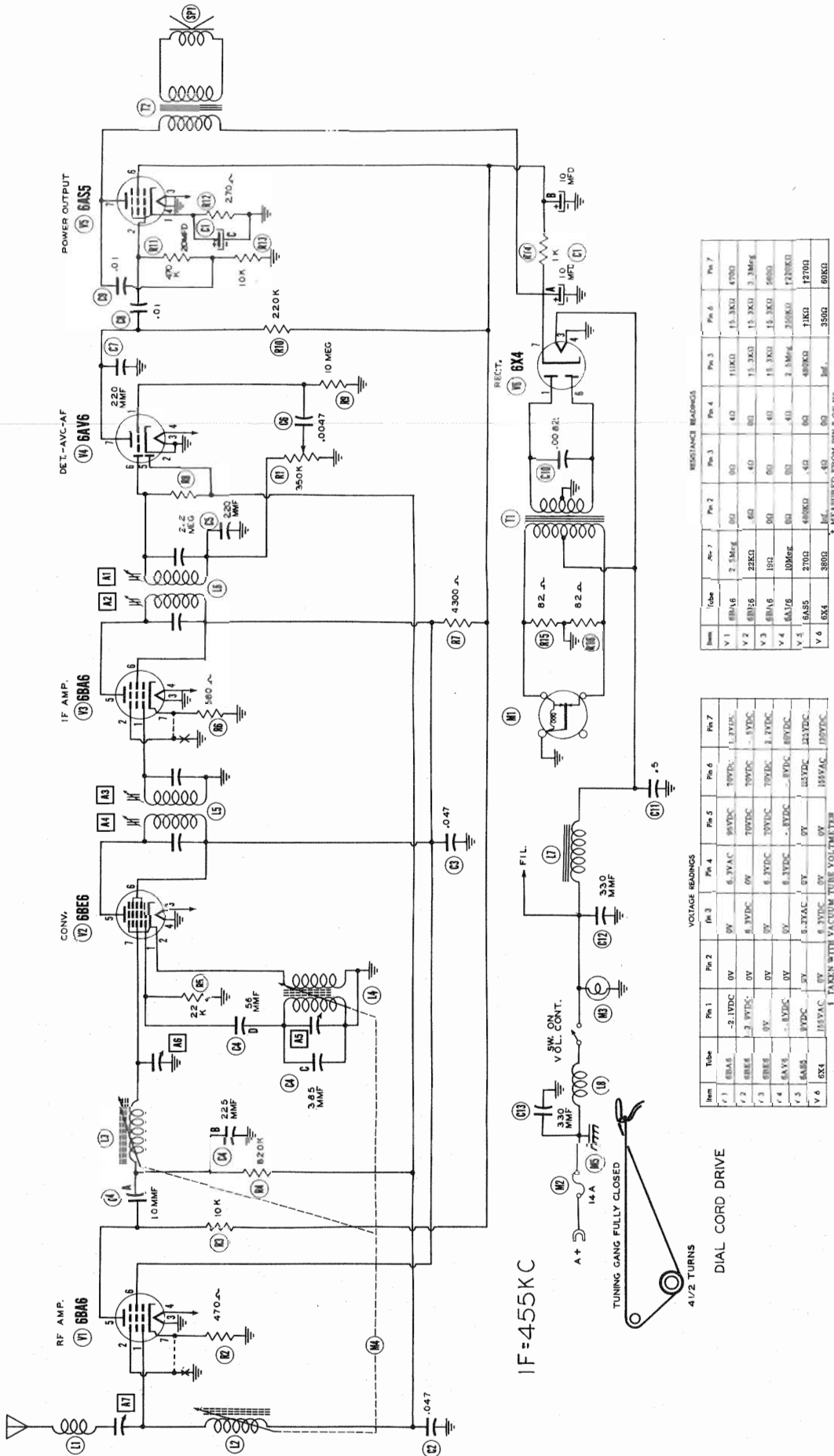
PHILCO
MODEL CR-501

- 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 - Battery voltage maintained at 6.3 volts for voltage readings.
- 5 - Nominal tolerance on component values makes possible a variation of $\pm 15\%$ in voltage and resistance readings.
- 6 - Volume control at maximum, no signal applied for voltage measurements.

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

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142-9



RESISTANCE READINGS						
Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 7
V 1	6BA6	2	5	6	4	1
V 2	6BE6	2	5	6	4	1
V 3	6BE6	2	5	6	4	1
V 4	6AV6	2	5	6	4	1
V 5	6BA6	2	5	6	4	1
V 6	6X4	2	5	6	4	1

VOLTAGE READINGS						
Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 7
V 1	6BA6	2	5	6	4	1
V 2	6BE6	2	5	6	4	1
V 3	6BE6	2	5	6	4	1
V 4	6AV6	2	5	6	4	1
V 5	6BA6	2	5	6	4	1
V 6	6X4	2	5	6	4	1

MEASURED FROM PIN 1 OF V6

TAKEN WITH VACUUM TUBE VOLTMETER

DIAL CORD DRIVE

4 1/2 TURNS

IF=455KC

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."

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DATE 8-51

SET 142

FOLDER 9

PARTS LIST AND DESCRIPTIONS
 TUBES (SYLVANIA or Equivalent)

PHILCO
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ITEM No.	USE	REPLACEMENT DATA			INSTALLATION NOTES
		PHILCO PART No.	STANDARD REPLACEMENT	RMA BASE TYPE	
V1	RF Amplifier	6BA6	6BA6	TBK	
V2	Converter	6BE6	6BE6	TCH	
V3	IF Amplifier	6BA6	6BA6	TBK	
V4	Det.-AVC-AF	6AV6	6AV6	TBT	
V5	Power Output	6AS5	6AS5	7CV	
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 CAP.	VOLT	REPLACEMENT DATA				IDENTIFICATION CODES AND INSTALLATION NOTES
			PHILCO PART No.	AEROVOX PART No.	CORNELL-DUBIER PART No.	ERIE PART No.	
C1A	10	200	61-0088A	APH3-66	UPL35C		TVL-3628
B	10	150					
C	20	25					
C2	0.047	400	45-3505-45	P488-047	PTE4S5		4TM-S47
C3	0.047	400	45-3505-45	P488-047	PTE4S5		4TM-S47
C4A	10	400	31-6522 *				
B	225						
C	385						
D	56						
C5	220	400	62-122001001	SI220		GP2K-221	5GA-T22
C6	0.0047		45-3505-56	P888-0047	PTE6D5	GP2-333-472	6TM-D47
C7	220	400	62-122001001	SI220		GP2K-221	5GA-T22
C8	0.01	400	45-3505-41	P488-01	PTE4S1	GP2-333-103	4TM-S1
C9	0.01	600	45-3505-58	P888-01	PTE6S1	GP2-333-103	6TM-S1
C10	0.0082	1000	30-4651-2	P885-5	PTE16D8		MB-D8
C11	5	100	61-0137	SI330		GP2K-331	68P20
C12	330		62-133001001	SI330		GP2K-331	5GA-T33
C13	330		62-133001001	SI330		GP2K-331	5GA-T33

* Not used in all models.
 ♦ Items C4A, C4B, C4C, C4D are combined with RF and Osc. trimmers in one unit.

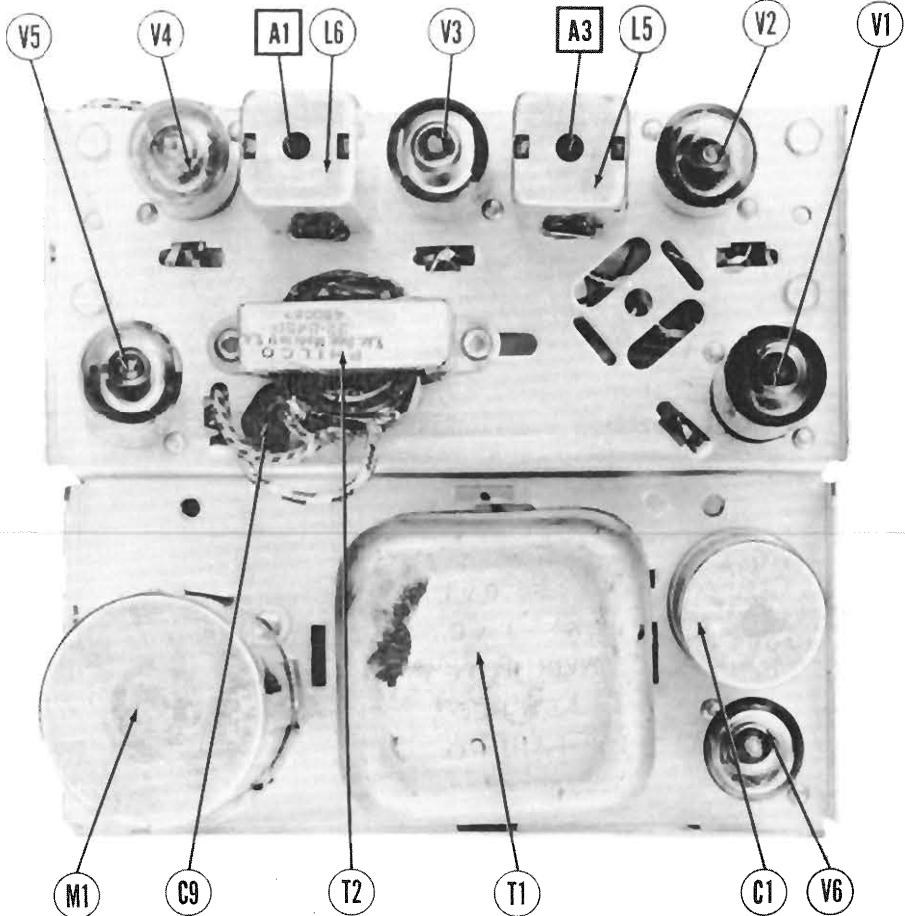
CONTROLS

ITEM No.	RATING RESISTANCE	WATTS	REPLACEMENT DATA			INSTALLATION NOTES
			PHILCO PART No.	IRC PART No.	CENTRALAB PART No.	
R1	350KΩ	1/2	33-5556-7			Volume control and SW

RESISTORS

ITEM No.	RATING RESISTANCE	WATTS	REPLACEMENT DATA		IDENTIFICATION CODES
			PHILCO PART No.	IRC PART No.	
R2	470Ω		66-1478340	BTS-470	RF Amp. Cathode
R3	10KΩ		66-3108340	BTS-10K	RF Amp. Plate
R4	820KΩ		66-4828340	BTS-820K	AVC Network
R5	22KΩ		66-3228340	BTS-22K	Osc. Grid
R6	560Ω		66-1508340	BTS-560	IF Amp. Cathode
R7	4300Ω		66-2403340	BTS-2.2Meg	Decoupling
R8	2.2Meg		66-5228340	BTS-10Meg	AVC Network
R9	10Meg		66-6108340	BTS-220K	AF Amp. Grid
R10	220KΩ		66-4228340	BTS-470K	AF Amp. Plate
R11	470KΩ		66-4478340	BTS-270	Output Grid
R12	270Ω		66-1274340	BTS-10K	Output Cathode
R13	10KΩ		66-3108340	BTA-1000	Feedback
R14	1000Ω		66-2104340		Hash Suppressor
R15	82Ω		66-0824340		Hash Suppressor

CHASSIS—TOP VIEW



PARTS LIST AND DESCRIPTIONS (Continued)
 TRANSFORMER (VIBRATOR)

ITEM No.	RATING	REPLACEMENT DATA			INSTALLATION NOTES
		PHILCO PART No.	STANCOR PART No.	CHICAGO PART No.	
T1	6.3VDC 325VCT 2.7A 1.045ADC		32-8451		

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING	REPLACEMENT DATA			INSTALLATION NOTES
		PHILCO PART No.	STANCOR PART No.	CHICAGO PART No.	
T2	3KΩ 3Ω 270Ω 35Ω 270Ω 35Ω	32-8450	A-3332	RO-9	Drill one new mounting hole.

SPEAKER

ITEM No.	RATINGS	REPLACEMENT DATA		INSTALLATION NOTES
		PHILCO PART No.	JENSEN PART No.	
SP1	FIELD 4" PM 33	36-1636-1	ST113	
SP2	CONF. DIA. 4"		Model P4-X	4A07

COILS (RF-IF)

ITEM No.	USE	DC RES.	REPLACEMENT DATA			NOTES
			PHILCO PART No.	MEISSNER PART No.	IRC PART No.	
L1	Ant. Choke	4Ω	32-4422-24		CL-1	5.6 Microhenries
L2	Ant. Coil	12Ω				Part of Tuner Part # 76-6011
L3	RF Coil	12Ω				Part of Tuner Part # 76-6011
L4	Osc. Coil	2.8Ω				Part of Tuner Part # 76-6011
L5A	1st. IF	19Ω	32-4160-6			Alternate Part
B	1st. IF	13Ω	32-4160A			
L6	2nd. IF	16Ω	32-4170			
L7	Hash Choke	.1Ω				
L8	Hash Choke	0Ω	32-1374			

VIBRATOR

ITEM No.	TYPE	INPUT VOLTS	FREQUENCY	REPLACEMENT DATA			INSTALLATION NOTES
				PHILCO PART No.	CORNELL-DUBIER PART No.	RADIART PART No.	
M1	INT	6.3V	115%	32-8451	5342	5326	

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA			REMARKS
			PHILCO PART No.	LITTEL FUSE PART No.		
M2	SFE	14A	45-2559	307014	155014A	

DIAL LIGHTS

ITEM No.	BASE TYPE	VOLTS	AMPS.	REPLACEMENT DATA		NOTES
				BEAD COLOR	PHILCO PART No.	
M3	Bayonet	6-8	.15	Brown	34-3068	Type #47

MISCELLANEOUS

ITEM No.	PART NAME	PHILCO PART No.	NOTES
M4	Tuning unit	76-6011	
M5	Spark Plate	31-6522	Osc. Adj.
A5	Deal Trimmer		RF Adj.
A6			Ant. Adj.
A7	Trimmer	31-6502	
	Dial Scale	54-5096	
	Knob	27-4687-15	
	Dial Pointer	54-4362-10FCP	

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CHASSIS—BOTTOM VIEW

