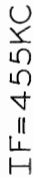


**WESTINGHOUSE MODELS H-153
H-153A, H-155, H-171 (ch. V-2103**

RADIO PHONO SWITCH IN RADIO POSITION.

A PHOTOFACT STANDARD NOTATION SCHEMATIC

485-25

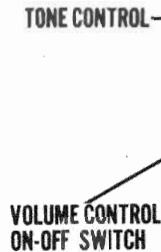
- The stage gain measured values listed above are approximate values for an average operative stage, rather than an absolute value. It should be borne in mind that it is possible to introduce so many variables into the measurement operation, such as, type of equipment used for measuring, handling and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

"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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WESTINGHOUSE MODEL H-171

TRADE NAME	Westinghouse, Models H-153, H-153A, H-155, H-171 (Ch. V-2103)
MANUFACTURER	Westinghouse Electric Corp., Receiver Div., Sunbury, Pa.
TYPE SET	AC Operated Combination Phono-Radio Superhetrodyne Receiver with Loop Antenna
TUBES (SIX)	Types, 6SA7 Converter, 6SF7 IF Amp.-Det.-AVC, 6SC7 AF Amp.-Phase Inv., (2) 25L6GT Power Output, 25Z6GT Rectifier.

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Use isolation transformer if available. If not connect a .1 MFD capacitor in series with low side of signal generator and S-.

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	.1 MFD.	High side to Pin 2 (grid) 6SF7. Low side to B-.	455KC	Tuning cap. fully open.	Across voice coil	A1,A2	Adjust for maximum output. If isolation transformer is not used, reduce dummy ant. to .001 MFD. to reduce hum modulation.
2	.1 MFD.	High side to rear stator of tuning cap. Low side to B-.	455KC	"	"	A3,A4.	Adjust for maximum output.
3	200MMFD	High side to ext. ant. terminal. Low side to B-.	1615KC	"	"	A5	" " " "
4		Loop	1400KC	Tune for maximum output.	"	A6	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.

PARTS LIST AND DESCRIPTIONS

WESTINGHOUSE MODELS H-153, H-153A, H-155, H-171 (Ch. V-2103)

CHASSIS--TOP VIEW

TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	INSTALLATION NOTES
		WESTINGHOUSE PART No.	STANDARD REPLACEMENT		
1	Converter	6SA7	6SA7	8R	
2	1 st Amp. -Det.-	6SF7	6SF7	7A2	
3	AF Amp. -Phase	6SC7	6SC7	8S	
4	Inv. Output	251A07	251A07	7AC	
5	Power Output	251A07	251A07	7AC	
6	Rectifier	251A07	251A07	7A	

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		SOLAR PART No.	SPRAGUE PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	IDENTIFICATION CODES AND INSTALLATION NOTES
		WESTING. PART No.	WESTING. PART No.					
7A	20 CAP.	V-3304	DEB-5000-150	7A-530	TC-15	484-05	EDL3316	Filter-Orn. -Red
8	50 B	RC10A4503	7P1-4-05		TC-11	484-01	D74S5	Rectifier Bypass
9	.01	RC10A4103	8-4-01		TC-11	484-01	D74S1	Output Plate Bypass
10	.01	RC10A4103	8-4-01		TC-11	484-01	D74S1	Audio Coupling
11	.01	RC10A4103	8-4-01		TC-11	484-01	D74S1	RF Bypass Pwr. Supply
12	.01	RC10A4103	8-4-01		TC-11	484-01	D74S1	Tone Compensation
13	.01	RC10A4103	8-4-01		TC-11	484-01	D74S1	Phono Shunt
14	.01	RC10A4103	8-4-01		TC-11	484-01	D74S1	Phono Isolation
15	.01	RC10A4103	8-4-01		TC-11	484-01	D74S1	Conv. Screen Bypass
16	.01	RC10A4103	8-4-01		TC-11	484-01	D74S1	Line Isolation
17	.01	RC10A4103	8-4-01		TC-11	484-01	D74S1	Tuning Cap. Isolation
18	.05	RC10A4503	8-4-05		TC-15	484-05	D74S5	Ext. Ant. Isolation
19	.05	RC10A4503	8-4-05		TC-15	484-05	D74S5	AF Plate Bypass
20	.05	RC10A4503	8-4-05		TC-15	484-05	D74S5	Osc. Grid Cap.
21	.2	RC10A4204	8-4-2		TC-2	484-2	D74E2	
22	.2	RC10A4204	8-4-2		TC-2	484-2	D74E2	
23	.01	RC10A4103	8-4-01		TC-11	484-01	D74S1	
24	300	RC10A3011	10-3-33	1P7-33	1P7-33	1468-0003	5W573	
25	68	RC10A6804	M5S-5-47	5S-47	5S-47	1467-00107	5W597	

CONTROLS

ITEM No.	RATING	REPLACEMENT DATA		CLAROSTAT PART No.	INSTALLATION NOTES
		WESTING. PART No.	WESTING. PART No.		
26A	1 Meg. B Shaft	V-3308	D13-137	N-63-Z	Volume Control
27A	1 Meg. C Shaft	Not Req.	41	Not Req.	Attach to 25A per instructions
27B	1 Meg. B Shaft	V-3303	D13-137	SW-A	Tone Control
		Not Req.	A	Not Req.	Attach to 26A per instructions

RESISTORS

ITEM No.	RATING	REPLACEMENT DATA		IRC PART No.	IDENTIFICATION CODES
		WESTINGHOUSE PART No.	WESTINGHOUSE PART No.		
28	22KΩ	RC10A2203	BTS-22K	BTS-22K	Red-Red-Or. Oscillator Grid
29	22KΩ	RC10A2203	BTS-22K	BTS-22K	Red-Red-Or. AVC Network
30	22KΩ	RC10A2203	BTS-22K	BTS-22K	Red-Red-Yl. Line Isolation
31	2.2 Meg.	RC10A2203	BTS-2.2 Meg.	BTS-2.2 Meg.	Red-Red-Grn. AVC Network
32	10 Meg.	RC10A1003	BTS-10 Meg.	BTS-10 Meg.	Br.-Blk.-Blue AF Grid
33	220KΩ	RC10A2203	BTS-220K	BTS-220K	Red-Red-Yl. AF Plate Load
34	180KΩ	RC10A1803	BTS-180K	BTS-180K	Br.-Gray-Yl. Phase Inverter Grid
35	82KΩ	RC10A8203	BTS-82K	BTS-82K	Gray-Red-Or. Phase Inverter Grid
36	270KΩ	RC10A2703	BTS-270K	BTS-270K	Or.-Or.-Yl. Output Grid
37	330KΩ	RC10A3303	BR-1-100	BR-1-100	White-Br.-Blk. Output Cathode
38	91Ω	RC10A9103	BR-1-100	BR-1-100	Br.-Orn.-Red Filter
39	500Ω	RC10A5003	BR-1-100	BR-1-100	Br.-Orn.-Red Filter
40	22Ω	RC10A2203	BR-1-22	BR-1-22	Red-Red-Blk. Rectifier Ballast
41	12Ω	V-3311	ABA-75	ABA-75	Line Dropping
42	330Ω	RC10A3303	BTS-330	BTS-330	Or.-Or.-Red Converter Screen Dropping

*Set slider at 128 from one end.

TRANSFORMER (OUTPUT)

ITEM No.	RATING	REPLACEMENT DATA		STANCOR PART No.	THORNDYKE PART No.	MERIT PART No.	INSTALLATION NOTES
		WESTINGHOUSE PART No.	WESTINGHOUSE PART No.				
42	IMPEDANCE 48000 3.3Ω 2600 1.5Ω CT	V-3307	V-3307	A-3823	T23546	A-2800	

SPEAKER

ITEM No.	RATINGS	REPLACEMENT DATA		JENSEN PART No.	QUAM PART No.	INSTALLATION NOTES
		WESTINGHOUSE PART No.	WESTINGHOUSE PART No.			
43	FIELD VC IMP. 3.3Ω	V-3822	Mod. P6-X	ST-110	6A15	
44	CONV DIA. VC DIA. 1/2"	NOT READILY REPLACEABLE-USE COMPLETE SPEAKER UNIT.				

R F COILS

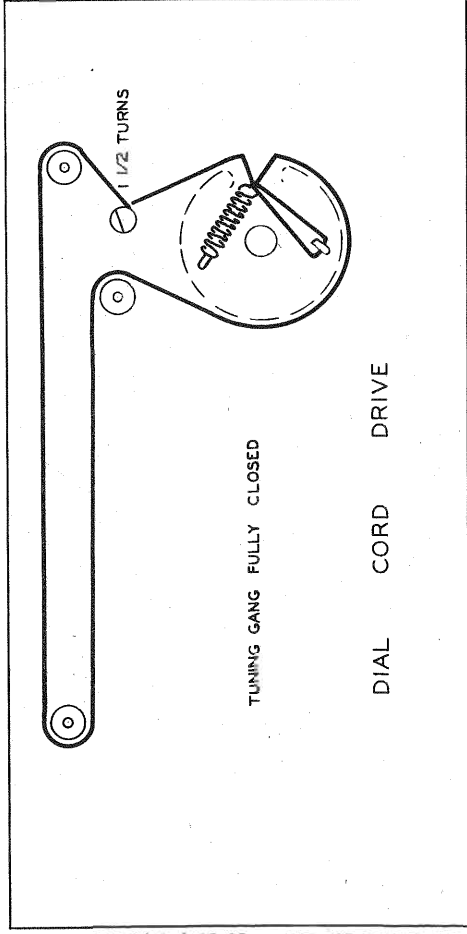
ITEM No.	USE	REPLACEMENT DATA		WESTINGHOUSE PART No.	MEISSNER PART No.
		DC RES. PRI. SEC.	DC RES. PRI. SEC.		
45	Loop Ant.	15 15	15 15	V-2650	14-1040
46	Osc. Coil	4.3Ω 29Q	4.3Ω 27Q	V-3328	10-6958
47	Input IF	29Q 21Q	27Q 21Q	V-3329	16-6670
48	Output IF				

DIAL LIGHT

ITEM No.	BASE TYPE	REPLACEMENT DATA		WESTING. PART No.	INSTALLATION NOTES
		VOLTS	AMPS.		
49	Bayonet	6-8	0.15	Brown No. 47	Type 47

MISCELLANEOUS

ITEM No.	PART NAME	WESTINGHOUSE PART No.	NOTES
50	Switch	V-3301	Radio-Phono (12-290075, 21-120125)
51	2 Gang Var. Cap.	V-3335	



CHASSIS--BOTTOM VIEW

