

RESISTANCE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	6SK7	0 $\Omega$	0 $\Omega$	0 $\Omega$	2.7 MEG.	0 $\Omega$	112 K $\Omega$	.2 $\Omega$	105 $\Omega$
2	6SA7	0 $\Omega$	0 $\Omega$	100 K $\Omega$	112 K $\Omega$	21 K $\Omega$	.5 $\Omega$	.2 $\Omega$	27 MEG.
3	6SK7	0 $\Omega$	0 $\Omega$	0 $\Omega$	0 $\Omega$	2.5 MEG.	112 K $\Omega$	.2 $\Omega$	100 K $\Omega$
4	6SQ7	0 $\Omega$	5 MEG.	0 $\Omega$	2.5 MEG.	480 K $\Omega$	570 K $\Omega$	.2 $\Omega$	0 $\Omega$
5	6V6GT	INF.	.2 $\Omega$	100 K $\Omega$	100 K $\Omega$	400 K $\Omega$	INF.	0 $\Omega$	240 $\Omega$
6	6X5GT	INF.	0 $\Omega$	152 $\Omega$	143 $\Omega$	INF.	.2 $\Omega$	.2 $\Omega$	100 K $\Omega$

VOLTAGE READINGS

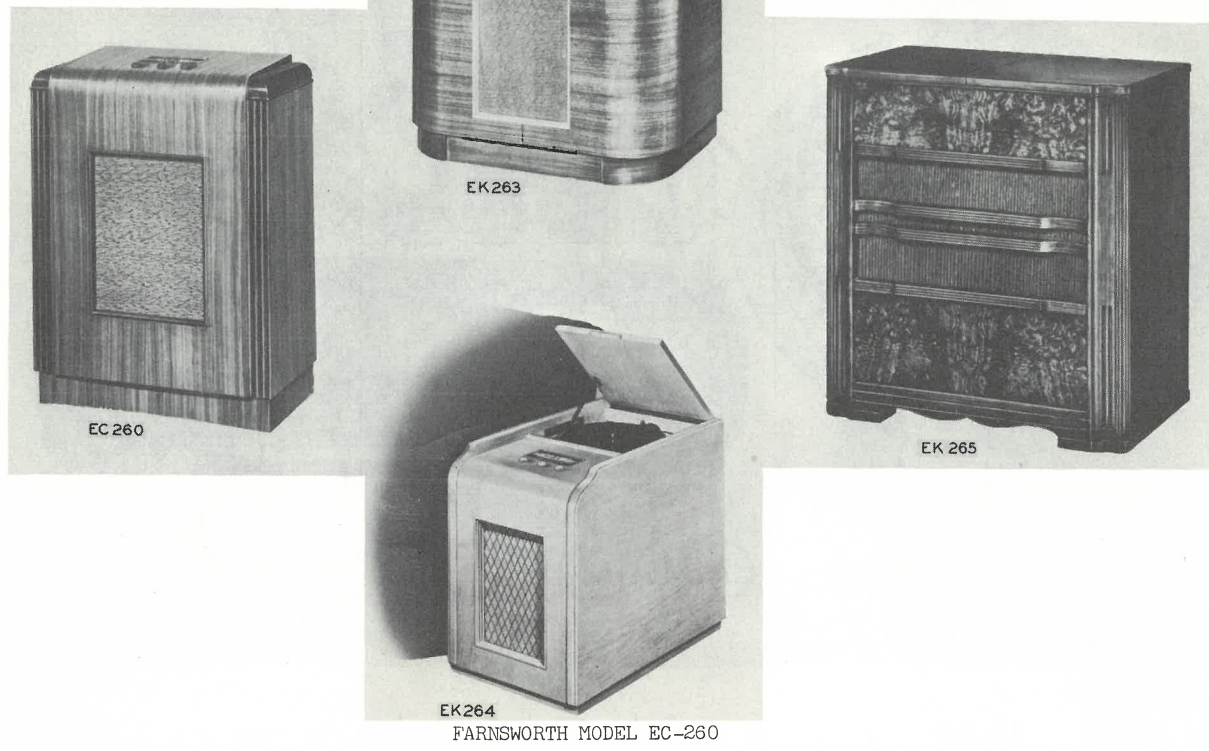
Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	6SK7	OV.	OV.	OV.	-75VDC	OV.	65VDC	6.4VAC	158VDC
2	6SA7	OV.	OV.	OV.	187VDC	-AVDC	OV.	6.4VAC	-35VDC
3	6SK7	OV.	OV.	OV.	-85VDC	OV.	65VDC	6.4VAC	187VDC
4	6SQ7	OV.	OV.	OV.	-8VDC	OV.	-85VDC	-AVDC	78VDC
5	6V6GT	OV.	OV.	OV.	232VDC	187VDC	OV.	OV.	92VDC
6	6X5GT	OV.	OV.	OV.	227VAC	OV.	227VAC	OV.	6.4VAC

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

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.

## PHOTOFACT\* Folder

**FARNSWORTH**  
**MODELS EC-260, EK-262, EK-263BL, EK-263WL, EK-264BL, EK-264WL, EK-265**



<b>TRADE NAME</b>	Farnsworth Models EC260, EK262, EK263BL, EK263WL, EK264BL, EK264WL, EK265					
<b>MANUFACTURER</b>	Farnsworth Television & Radio Corp., Fort Wayne, Indiana					
<b>TYPE SET</b>	AC Operated Combination Automatic Phono. - Superheterodyne Receiver, Self Contained Loop Antenna (Model EC-260 has radio section only)					
<b>TUBES (SIX)</b>	Types, 6SK7 RF Amp., 6SA7 Converter, 6SK7 IF Amp., 6SQ7 Det.-AVC-AF, 6V6GT Power Output, 6X5GT Rectifier.					
<b>POWER SUPPLY</b>	117 Volts AC					
<b>TUNING RANGE—BROADCAST</b>	540-1620KC		<b>RATING</b>	.430 Amps. @ 117V AC		
<b>ALIGNMENT INSTRUCTIONS</b>						
To set pointer, turn variable fully closed and set pointer at last reference mark at left end of dial. Volume control at maximum volume and output from signal generator no higher than is necessary to obtain output reading. Use insulated alignment screwdriver for adjusting.						
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
.1 MFD.	High side to stator of rear section of variable. Low side to chassis.	455KC	High freq. end.	Across voice coil	A1, A2, A3, A4.	Adjust for maximum output.
250 MMF.	High side to ext. ant. lead. Low side to chassis.	1500KC	1500KC	"	A5	" " " "
250 MMF.	"	"	"	"	A6	" " " "
Check pointer calibration		at 600KC				

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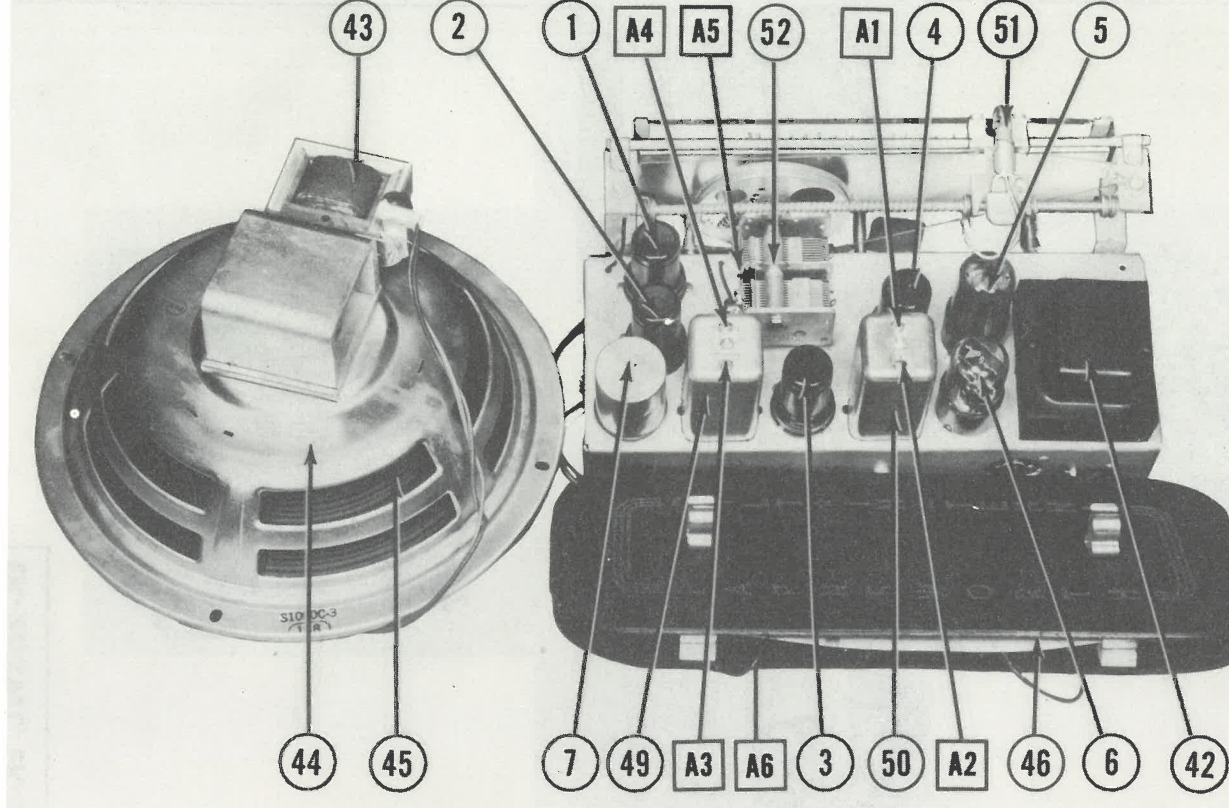
## FARNSWORTH MODELS EC-260, EK-262, EK-263BL, EK-263WL, EK-264BL, EK-264WL, EK-265

## FARNSWORTH MODELS EC-260, EK-262, EK-263BL, EK-263WL, EK-264BL, EK-264WL, EK-265



## PARTS LIST AND DESCRIPTIONS

## CHASSIS—TOP VIEW



## TUBES

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	INSTALLATION NOTES
		FARNSWORTH PART No.	STANDARD REPLACEMENT		
1	Rp Amd.	6SK7	6SK7	8N	
2	12AX7	6SK7	6SK7	8R	
3	6X5GT	6SK7	6SK7	8N	
4	Det.-AVC-AF	6SK7	6SK7	8N	
5	Power Output	6V6GT	6V6GT	7AC	
6	Rectifier	6X5GT	6X5GT	6S	

## 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					CORNELL DUBLIER PART No.	IDENTIFICATION CODES AND INSTALLATION NOTES
	CAP.	VOLT	FARNSWORTH PART No.	MALLORY PART No.	SOLAR PART No.	SPRAGUE PART No.	AEROVOX PART No.		
7A	30	350	25180	F7416*	DY-404*	EL-432*	UP9J55	Filter	
B	20	300						"	
C	20	250						"	
8	.005	600	25031	TP403	S-6-005	TC-25	DT6D5	Line Bypass	
9	.002	600	25184	TP406	S-6-003	TC-23	DT6D3	Tone Compensation	
10	.002	600	25185	TP405	S-6-002	TC-22	DT6D2	"	
11	.01	600	25194	TP410	S-6-01	TC-21	DT6S1	Audio Coupling	
12	.003	600	25184	TP403	S-6-003	TC-23	DT6D3	6V6 Plate Bypass	
13	.01	600	25194	TP410	S-6-01	TC-11	DT6S1	Audio Coupling	
14	.001	600	25183	TP403	S-6-005	TC-25	DT6D5	"	
15	.05	600	25196	TP415	S-6-05	TC-15	DT6S5	AVC Filter	
16	.1	600	25215	TP418	S-6-1	TC-1	DT6P1	Conv. Plate Bypass	
17	.1	600	25215	TP418	S-6-1	TC-1	DT6P1	Screen Bypass	
18	.05	600	25196	TP415	S-6-05	TC-15	DT6S5	AVC Filter	
19	100	500	25188	TC235	M0-5-31	1M-31	SW6T1	Audio Plate Bypass	
20	200	500	25187	TC240	M0-5-325	1M-325	SW6T25	IF Bypass Diode	
21	47	500	25193	TC235	M0-5-45	1M-45	SW6S5	Osc. Grid Capacitor	
22	100	500	25188	TC235	M0-5-31	1M-31	SW6T1	RF Coupling	

## CONTROLS

ITEM	RATING		REPLACEMENT DATA			INSTALLATION NOTES
	RESIST- ANCE	WATTS	EARNSWORTH PART No.	MALLOY PART No.	CLAROSTAT PART No.	
23	3	neg.	1	75071 90146		Volume Control Tone Control & Radio-Phono Switch
24	2	neg.	1			

## RESISTORS

ITEM No.	RATING		REPLACEMENT DATA		IDENTIFICATION CODES
	RESISTANCE	WATTS	PART No.	IRC PART No.	
25	100K $\Omega$		77214	BTS-100K	Br.-Blk.-Yl. AVC Network
26	27 470K $\Omega$		77211	BFS-470K	Yl.-Vi.-Red RF Plate Load
27	27 100K $\Omega$		77214	BFS-100K	Br.-Blk.-Yl. Converter Grid
28	22K $\Omega$		77266	BFS-22K	Red-Red-Or. Osc. Grid
29	470 $\Omega$		77261	BFS-470	Yl.-Vi.-Br. Converter Plate Filter
30	12K $\Omega$		77155	BF-2.12K	Br.-Red-Or. Screen Dropping
31	220K $\Omega$		77216	BFS-220K	Red-Red-Yl. Series Phono.
32	2.2 Meg.		77270	BFS-2.2 Meg.	Red-Red-Grn. AVC Network
33	47K $\Omega$		77213	BFS-47K	Yl.-Vi.-Or. IF Filter
34	470K $\Omega$		77217	BFS-470K	Yl.-Vi.-Yl. Diode Load
35	6.8 Meg.		77273	BFS-6.8 Meg.	Blue-Gray-Grn. 1st AF Grid
36	470K $\Omega$		77217	BFS-470K	Yl.-Vi.-Yl. 1st AF Plate Load
37	220K $\Omega$		77216	BFS-220K	Red-Red-Yl. Tone Compensation
38	470K $\Omega$		77217	BFS-470K	Yl.-Vi.-Yl. Output Grid
39	270 $\Omega$		77174	BW-1.270	Red-Vi.-Br. Output Cathode
40	100 $\Omega$		77258	BW-1.100	Br.-Blk.-Br. Filter
41	220K $\Omega$		77301	BF-2.220K	Red-Red-Red Filter

## TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA		
	PRI.	SEC. 1	SEC. 2	FLUORWORTH PART No.	STANCOR PART No.	THORDARSON PART No.
42	117VAC ③ . 4540A	470VCT	6.6VAC ③ . 063A ③ 2.5A	94025		T-22H02

## PARTS LIST AND DESCRIPTIONS (Continued)

**TRANSFORMER (OUTPUT)**

ITEM No.	BATING				REPLACEMENT DATA			INSTALLATION NOTES
	IMPEDANCE	DC RES.	PRI. SEC.	PRI. SEC.	FARNSWORTH PART No.	STANCOR PART No.	THORDARIN PART No.	
A. 43A	5700Ω	3.8Ω	275Ω	.25Ω	94197	A-38771	T-22S461	Used with models EC-260 EK-265 Use smaller mounting holes provided.
B. 43A					94193			Used with model EK-262
C. 43A					94199			Used with models EK-263 EK-264

**SPEAKER**

ITEM No.	RATINGS		REPLACEMENT DATA		INSTALLATION NOTES
	FARNSWORTH PART No.	JENSEN PART No.			
FIELD PH	VC INF.	81125	Speaker	Used with Models EK-260, EK-265	
44A	3-32	81124	Mod. P10-S	Used with Models EK-263, EK-264	
B		81123		Used with Model EK-262	
C					
CONE DIA.	VC DIA.				
45A	9-3/4"	15716"		NOT READILY REPLACEABLE-USE COMPETE SPEAKER UNIT.	

## RF COILS

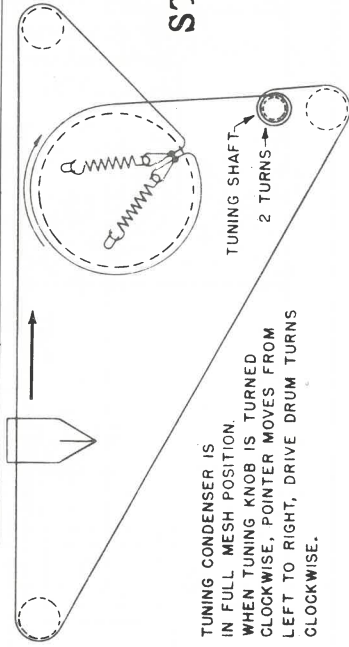
ITEM NO.	USE	DC RES.		REPLACEMENT DATA		INSTALLATION NOTES
		PRI.	SEC.	FARNSWORTH PART No.	MEISSNER PART No.	
46A	Loop Ant.	0Ω	1Ω	365535		Used in models EK262, EK264
47	Loop Ant.			365545		" " " " " "
48	Wave Trap	†		38494		EC260, EK263, EK265
49	Osc. Coll	5Ω	5.5Ω	38483	14-1040	" " " " " "
50	Input IF	12.2Ω	12.1Ω	38536	16-6658	#No continuity through trap,
50	Output IF	12.6Ω	12.2Ω	38537	16-6660	

## DIAL LIGHT

ITEM No.	BASE TYPE	VOLTS	AMPS.	BEAD COLOR	REPLACEMENT DATA		INSTALLATION NOTES
					FARNSWORTH PART No.		
51	Bayonet	6-8	0.25	Blue	42185		Type 44

## MISCELLANEOUS

ITEM No.	PART NAME	PARNSWORTH PART No.	NOTES
52	Tuning Cap.	15136	2 Gang Variable Cap.
A6	Trimmer Cap.	26032	Antenna Adj.
	Dial Pointer	07348	
	" "	31318	EC-260, EK-264
	" "	31280	EK-282, EK-283
	" Escutocheon	59211	EC-260, EK-264
	" "	59199	EK-262, EK-263
	" Background	58006	EK-282, EK-283
	" "	58039	EC-260, EK-264
	Knob	59134	EC-262, EK-263WL, EK-264WL, EK-265
		59243	EK-283BL, EL-264BL



## CHASSIS—BOTTOM VIEW

