

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

485-4

Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7
1 12BE6	-10VDC	OV.	12.5VAC	25VAC	75VDC	75VDC	-10VDC
2 12BA6	-10VDC	OV.	25VAC	25VAC	75VDC	75VDC	-10VDC
3 12AT6	-10VDC	OV.	12.5VAC	OV.	-10VDC	-10VDC	35VDC
4 50B5	OV.	4.8VDC	85VAC	38VAC	110VDC	75VDC	OV.
5 35W4	117VAC	OV.	85VAC	117VAC	110VAC	114VAC	125VDC

VOLTAGE READINGS

Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7
1 12BE6	220Ω	.02	150	500	40KΩ	40KΩ	3 1MΩ
2 12BA6	3 1MΩ	.02	240	350	40KΩ	40KΩ	100Ω
3 12AT6	5 1MΩ	.02	120	0Ω	40KΩ	40KΩ	500KΩ
4 50B5	40KΩ	150Ω	80Ω	25Ω	40KΩ	40KΩ	40KΩ
5 35W4	100Ω	130	80Ω	100Ω	100Ω	50Ω	45KΩ

RESISTANCE READINGS

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.

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.

PHOTOFACT* Folder

DEWALD
MODEL B-512

DEWALD
MODEL B-512



VOLUME CONTROL
ON-OFF SWITCH

TUNING CONTROL

DEWALD MODEL B-512

TRADE NAME	Dewald, Model B-512					
MANUFACTURER	Dewald Radio Mfg. Corp., 35-28 49th St., Long Island City, N.Y.					
TYPE SET	AC Operated Superheterodyne Receiver with Electric Clock					
TUBES (FIVE)	Types, 12BE6 Converter, 12BA6 IF Amp., 12AT6 Det.-AFC-AF, 50B5 Power Output, 35W4 Rectifier.					
POWER SUPPLY	105-125 Volts AC					
TUNING RANGE—BROADCAST	535-1700KC		RATING .25 Amp. @ 117 Volts AC			
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 chassis.						
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 MFD.	High side to rear stator of tuning cap. Low side to chassis.	455KC	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.
	Loop	1720KC	"	"	A5	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.
	"	1500KC	Tune for maximum output.	"	A6	Adjust for maximum output.

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DATE-3/48-#485-4 SET #35-FOLDER #4

CHASSIS—TOP VIEW

DEWALD
MODEL B-512

TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	INSTALLATION NOTES
		DETAILED PART No.	STANDARD REPLACEMENT		
1	Converter	12BE6	12BE6	7CH	
2	Amplifier	12BA6	12BA6	7BK	
3	Def. YC-AF	12BA6	12BA6	7BT	
4	Power Output	50B5	50B5	702	
5	Rectifier	35W4	35W4	59C	

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
	CAP.	VOLT	DEMAND PART No.	SOLAR PART No.	SPRAGUE PART No.	AEROVOX PART No.	CORNELL DUNLAP PART No.		
6A	30	150	2002	DSB-2X350-150	T-330	FRSAL50-30-	E23315	Filter - YL - Red	
B	30	150					30	Line Output	
7	.05	400		MPH 4-05	TC-15	494-05	D7485	Output Plate Bypass	
8	.02	400		S-4-02	TC-12	484-02	D7482	Audio Coupling	
9	.01	400		S-4-01	TC-11	484-01	D7481		
10	.005	600		S-6-005	TC-26	684-005	D7481		
11	.05	400		S-4-05	TC-15	484-05	D7605	RF Bypass Pwr. Supply	
12	.05	400		S-4-05	TC-15	484-05	D7485	AV Filter	
13	.05	400		NO. 8-295	1F7-325	1468-00025	SA5725	AF plate Bypass-Cor.	
14	220	300		NO. 8-295	1F7-325	1468-00025	SA5725	D'Pos RF Filter-Cor.	
15	220	300		NO. 8-295	1F7-325	1468-00025	SA5725		

CONTROLS

ITEM No.	RATING		REPLACEMENT DATA			INSTALLATION NOTES
	RESIST-ANCE	WATTS	DEMOLD PART No.	IRC PART No.	CLAROSTAT PART No.	
15A	500KΩ	½	3002	D13-133	A7-60-Z	Volume Control Attach to ISA per instructions " " " " " "
B	Switch			41	RS-2	
C	Switch			A	SW-A	

RESISTORS

ITEM No.	RATING		REPLACEMENT DATA		IDENTIFICATION CODES
	RESISTANCE	WATTS	DEMAND PART No.	IRC PART No.	
16	22KΩ	1		B7S-22K	Red-Red-Or. Oscillator Grid
17	660Ω	1		B7S-680	Blue-Gray-Br. Control Cathode
18	100Ω	1		BW-100	Br. Blk. Br. I ₁ Cathode
19	2.2 Meg.	1		B7S-2.2 Meg.	Red-Red-Grn. AVC Network
20	4.7 Meg.	1		Y1-V1-Grn. AF Grid	
21	510KΩ	1		Grn.-Br.-Y1. AF Plate Load	
22	470KΩ	1		Y1-V1-V1. Output Grid	
23	150Ω	1		Br.-Grn.-Br. Output Cathode	
24	2700Ω	1		Red-V1.-Red Filter	
25	18Ω	1		Br.-Gray-Blk. Rectifier Ballast	

TRANSFORMER (OUTPUT)

ITEM No.	RATING				REPLACEMENT DATA				INSTALLATION NOTES
	IMPEDANCE		DC RES.		DEWALD PART No.	STANCOR PART No.	THORDARN PART No.	MERIT PART No.	
	PRI.	SEC.	PRI.	SEC.					
26	2000Ω	3.4Ω	165Ω	.6Ω	Part of 7006-1	A-3976*	T23945*	A-2028*	*Bend mounting tabs down, file out slots and mount on original bracket.

PARTS LIST AND DESCRIPTIONS (Continued)

SPEAKER

ITEM No.	RATINGS	REPLACEMENT DATA			INSTALLATION NOTES
		DEMOLD PART No.	JENSEN PART No.	QUAM PART No.	
27	FIELD PM VC IMP. 3.43 CONE DIA. 1/2"	7006-1	ST-1131 Mod. P4-X		17"im Flange
28	4"				NOT READILY REPLACEABLE-USE COMPLETE SPEAKER UNIT

RF COILS

ITEM No.	USE	DC RES.		REPLACEMENT DATA	
		PRI.	SEC.	PART No.	MEISSNER PART No.
29	Loop Ant.	112		1001	
30	Osc. Coil	42		1003	14-10404
31	Input IF	224		1000	16-6658
32	Output IF	242		1002	16-4660
		23	96		

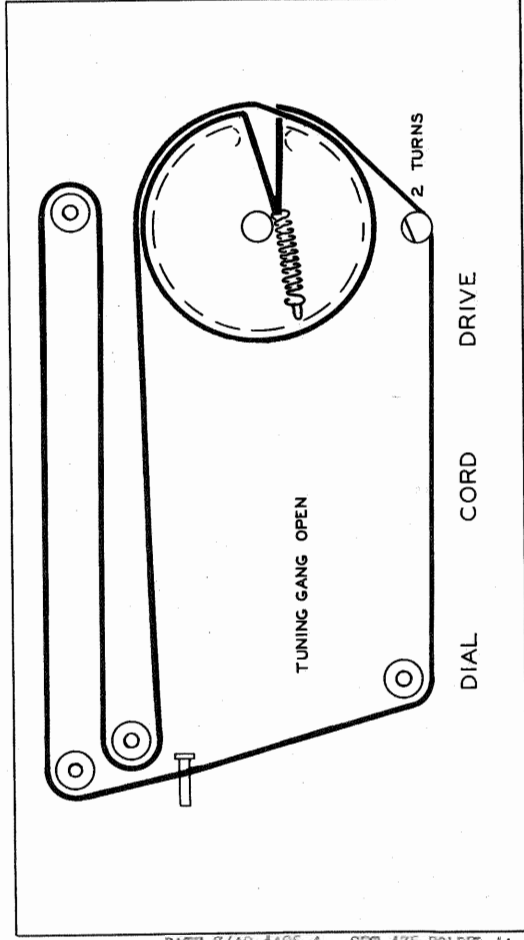
*Add 50 MFD from osc. grid to high side tuning cap.

DIAL LIGHT

ITEM No.	BASE TYPE	VOLTS	AMPS.	BEAD COLOR	REPLACEMENT DATA		INSTALLATION NOTES
					DEWALD PART No.		
33	Bayonet	6-8	0.15	Brown			Type 47

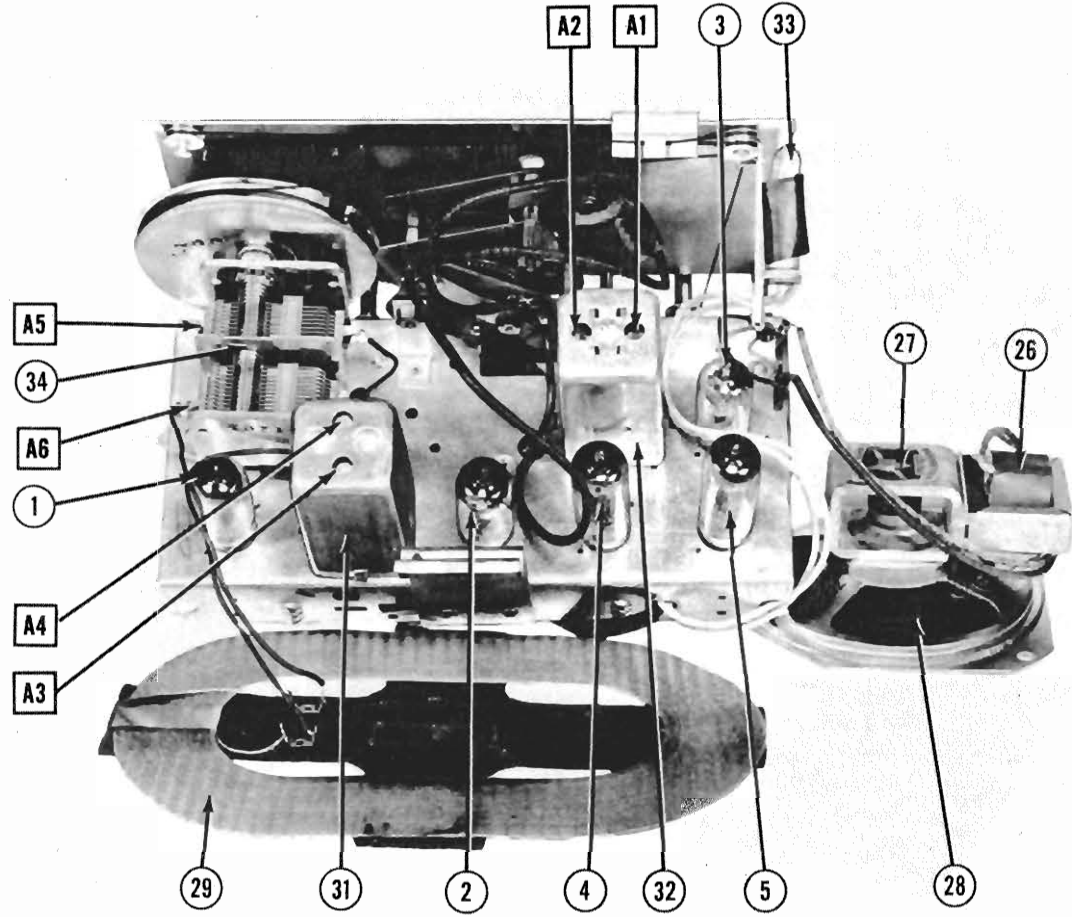
MISCELLANEOUS

ITEM No.	PART NAME	DEMOLD PART No.	NOTES
34	2 Gang Var. Cap. Dial Scale Clock Frac ³	2003 6000 8026 6013	(21-458 MPF, 25-190MPF) Crystal

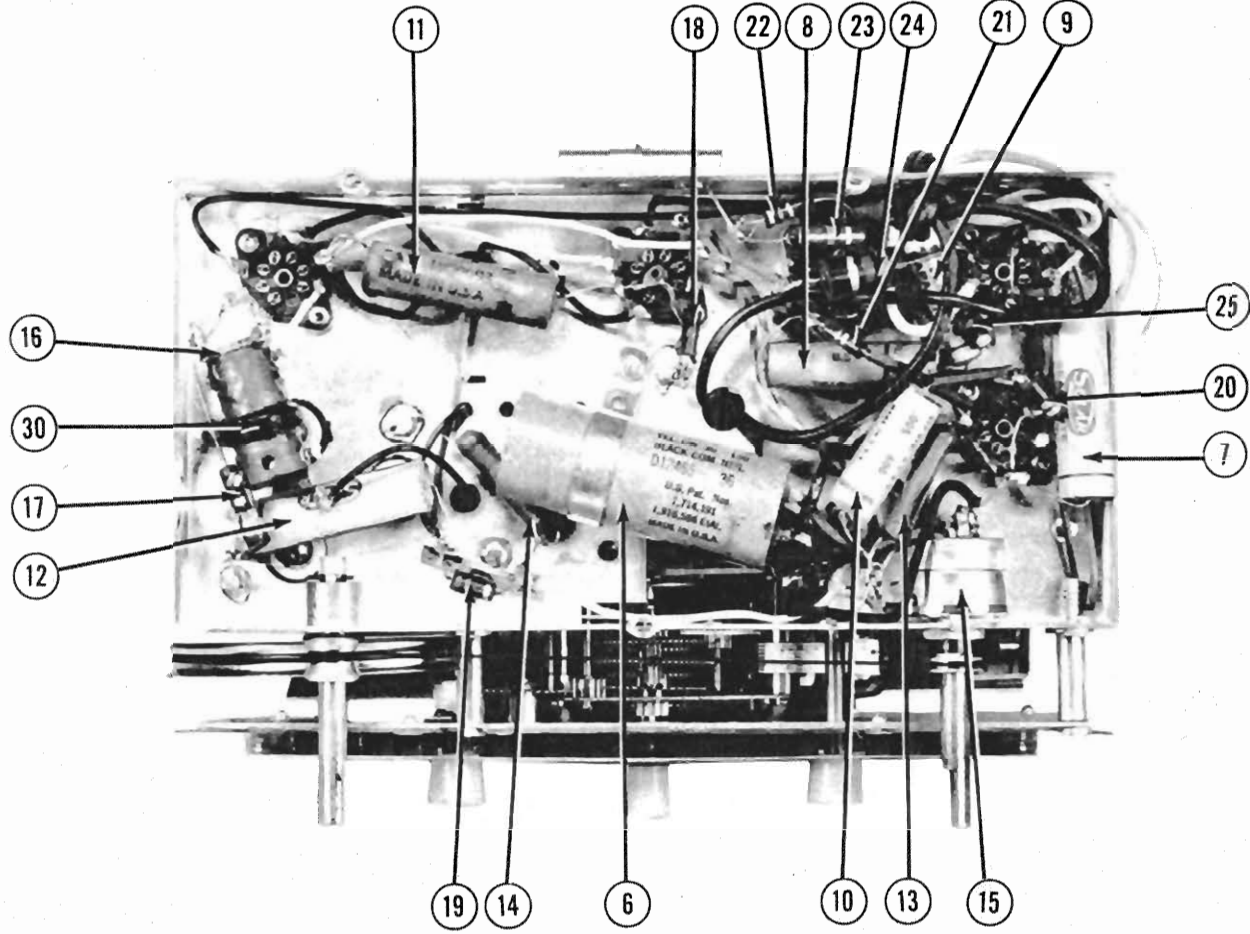


CHASSIS—TOP VIEW

DEWALD
MODEL B-512



CHASSIS—BOTTOM VIEW



DEWALD
MODEL B-512

DEL
NO DEL, B-512

DATE-3/48-#485-4 SET #35-FOLDER #4