

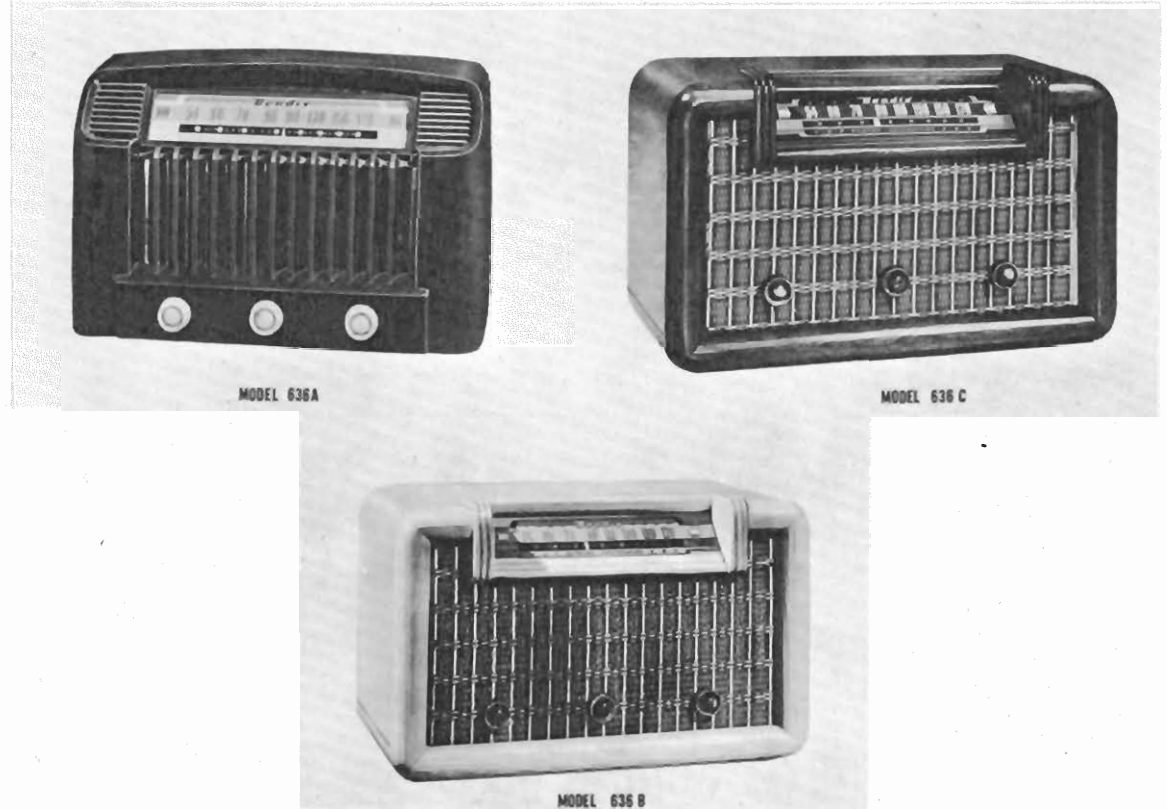
1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltages measured at 1,000 ohms per volt.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common negative.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance on component 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.

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

## PHOTOFACT\* Folder

## BENDIX MODELS 636 SERIES (A, B, C)



### BENDIX MODELS 636 SERIES (A, B, C)

BENDIX MODEL 636A						
TRADE NAME	Bendix, Model 636 Series (A, C, D)					
MANUFACTURER	Bendix Radio, Div. of Bendix Aviation Corp., Baltimore, Md.					
TYPE SET	AC-DC Operated Superheterodyne-With Loop Antenna & Phonograph Provision <sup>s</sup>					
TUBES (SIX)	Types, 14A7 RF Amp., 14Q7 Converter, 14A7 IF Amp., 14B6 Det.-AVC-AF. 35A5 Power Output. 35Y4 Rectifier.					
POWER SUPPLY	105-125 Volts AC-DC					
TUNING RANGE—BROADCAST	535-1725KC		RATING	.240 Amps. @ 117 Volts AC		
ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT						
To set pointer, turn tuning cap fully closed and set pointer 2-3/16" from left end of dial back-plate. Use isolation transformer if available. If not, connect a capacitor in series with low side of signal generator and B-. Volume control should be at maximum. 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 ext. ant. lead. Low side to chassis.	455KC	Tuning cap open.	Across voice coil	A1, A2, A3, A4.	Adjust for maximum output. If isolation transformer is not used, reduce dummy antenna to .001 MFD to reduce hum modulation.
50MMFD.	"	1475KC	6-3/4" from left end of dial back-plate.	"	A5	Adjust for maximum output.
50MMFD.	"	"	Tune for maximum output.	"	A6, A7.	" " " "

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### BENDIX MODELS 636 SERIES (A, B, C)

PARTS LIST AND DESCRIPTIONS  
 TUBES

BENDIX  
 636 SERIES (A,C,D)

CHASSIS—TOP VIEW

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	INSTALLATION NOTES
		BENDIX PART No.	STANDARD REPLACEMENT		
1	RF Amp.	1447	1447	9V	
2	Converter	1447	1447	9AL	
3	IF Amp.	1447	1447	9V	
4	Det.-AVC-AF	1448	1448	9W	
5	Power Output	3316	3316	6LA	
6	Rectifier	3314	3314	5AL	

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
		BENDIX PART No.	SPRAGUE PART No.	AEROVOX PART No.	CORNELL DUBILIER PART No.	
7A	40 CAP. 150V	CE3A00	FEL-340F	AL7844D	APRCJ44F	DI-604020-150
7B	20 150		LIT-201			
8	.05 400	CP4T40	TC-15	434-05	DT4S5	S-4-05
9	.02 400	CP4T24	TC-12	434-02	DT4S2	S-4-02
10	.01 200	CP2T51	TC-1	434-1	DT4P1	S-4-1
11	.04 400		TC-14	434-04	DT4S4	S-4-04
12	.01 400	CP4T20	TC-11	434-01	DT4S1	S-4-01
13	.006 400	CP4T40	TC-26	434-006	DT4S6	S-4-006
14	.05 400	CP4T40	TC-15	434-05	DT4S5	S-4-05
15	.006 400	CP4T20	TC-23	434-006	DT4S3	S-4-006
16	.1 400	CP4T51	TC-1	434-1	DT4P1	S-4-1
17	.05 400	CP4T40	TC-15	434-05	DT4S5	S-4-05
18	.004 500	CP4T40	TC-15	434-004	DT4S5	S-4-004
19	.004 500	CP4T40	TC-15	434-004	DT4S5	S-4-004
20	.22 500	CP4S05	1P7-32	1468-0002	SW3T2	NO. 8-322
21	.22 500	CP4S14	NS-42	1468-0003	SW4S5	NO. 8-422
22	.47 500		1P7-46	1468-0006	SW4S5	NO. 8-447
23	.47 500		1P7-46	1468-0006	SW4S5	NO. 8-447
24	3-3		CC3A15			NO. 8-447

\*Not used on all models.  
 They be .15 MFD. on some models.  
 may be .05 MFD. on some models.  
 #Parallel sections for desired capacity.

CONTROLS

ITEM No.	RATING	REPLACEMENT DATA				IDENTIFICATION CODES
		BENDIX PART No.	MALLORY PART No.	IRC PART No.	CLAROSTAT PART No.	
25A	1 Meg. Switch		MS53	D13-137	M-52-Z	Volume Control-Later production
25B	1 Meg. Switch		M26	41	Not Req.	Not Req.
25A	1 Meg. Switch	RV4S00	TW234	D17-137X	T-101	Volume Control-Early production
25B	1 Meg. Switch	Not Req.	Not Req.	41	Not Req.	Attach to 25A per instructions
25C	1 Meg. Switch		M26	41	SW-4	Attach to 25A per instructions

RESISTORS

ITEM No.	RATING	REPLACEMENT DATA			IDENTIFICATION CODES
		BENDIX PART No.	BENDIX PART No.	IRC PART No.	
26	220Ω	RC1H16		EW-2-220	Red-Red-Br. RF Cathode
27	22KΩ	RC1H40		BTS-22K	Red-Red-Or. Oscillator Grid
28	3-3 Meg.	RC1H68		BTS-3.3 Meg.	Or.-Or.-Grn. AVC Network
29	470Ω	RC1H20		BTS-470	Yl.-Yl.-Br. IF Plate Decoupling
30	220KΩ	RC1H54		BTS-220K	Red-Red-Yl. Line Isolation
31	470KΩ	RC1H54		BTS-470K	Yl.-Yl.-Yl. Diode Load
32	22KΩ	RC1H40		BTS-22K	Red-Red-Or. Tone Compensation-See Note 1
33	100KΩ	RC1H51		BTS-100K	Br.-Blk.-Yl.
34	15KΩ	RC1H33		BTS-15K	Br.-Grn.-Or.
35	6800Ω	RC1H34		BTS-6800	Blue-Gray-Red
36	1000Ω			BTS-1000	Br.-Blk.-Red

PARTS LIST AND DESCRIPTIONS (Continued)

RESISTORS

ITEM No.	RATING	REPLACEMENT DATA			IDENTIFICATION CODES
		BENDIX PART No.	BENDIX PART No.	IRC PART No.	
37	220Ω	RC1H70		BTS-220	Red-Red-Red
38	4-7 Meg.	RC1H54		BTS-4.7 Meg.	Yl.-Yl.-Grn. AF Grid
39	220KΩ	RC1H54		BTS-220K	Red-Red-Yl. AF Plate Load
40	470KΩ	RC1H54		BTS-470K	Yl.-Yl.-Yl. Output Grid
41	15KΩ	RC1B14		EW-1-150	Br.-Grn.-Br. Output Cathode
42	2200Ω	RC4G28		BT-2-2200	Red-Red-Red Filter
43	4700Ω	RC1H32		BTS-4700	Yl.-Yl.-Red
44	33Ω	RC1A08		EW-4-33	Or.-Or.-Blk. Surge Limiter
45	100Ω			EW-1-100	Br.-Blk.-Br. Pilot Light Shunt

Note 1 - Used in early production only.  
 Note 2 - Used in later production only.

TRANSFORMER (OUTPUT)

ITEM No.	RATING	REPLACEMENT DATA			INSTALLATION NOTES
		BENDIX PART No.	STANCOR PART No.	THORDARN PART No.	
46	3300Ω 3.1Ω		TA0001	A-3876 \$	Splice mounting tabs down, file out slots and mount on original bracket.

SPEAKER

ITEM No.	RATINGS	REPLACEMENT DATA		INSTALLATION NOTES
		BENDIX PART No.	JENSEN PART No.	
47	FIELD VC IMP. 3-15			
48A	ONE DIA. VC DIA. 1/2"	SP4000		
B		CS4000		Code 252
C		CS4001		Code 328 Alternate Cone
D		CS4002		Code 270
E		CS4006		Code 191
		CS4007		Code 371

R F COILS

ITEM No.	USE	REPLACEMENT DATA		
		BENDIX PART No.	MEISSNER PART No.	
49	Loop Ant.			
50	RF Coil	AL0003		14-1027
51	Osc. Coil	TR6L00		14-1040
52	Input IF	LO6B00		16-6658
53	Output IF	T10C01		16-6670

DIAL LIGHT

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

MISCELLANEOUS

ITEM No.	PART NAME	BENDIX PART No.	NOTES
55	Switch	SW4C00	Radio-Phono (3 Pole-4 Position)
56	3-Gang Var. Cap.	CV0C00	(27-467 MFT, 27-467 MFT, 31-213 MFT)
	Dial Glass	DS0A01	
	Dial Pointer	IP0M02	

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CHASSIS—BOTTOM VIEW

