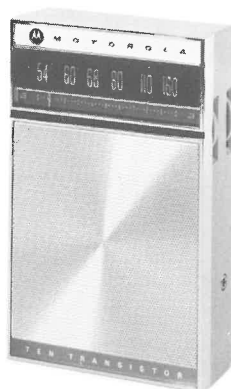




# PHOTOFACT<sup>®</sup> with

# CIRCUITRACE<sup>®</sup>

For Supplier Address See PHOTOFACT Index



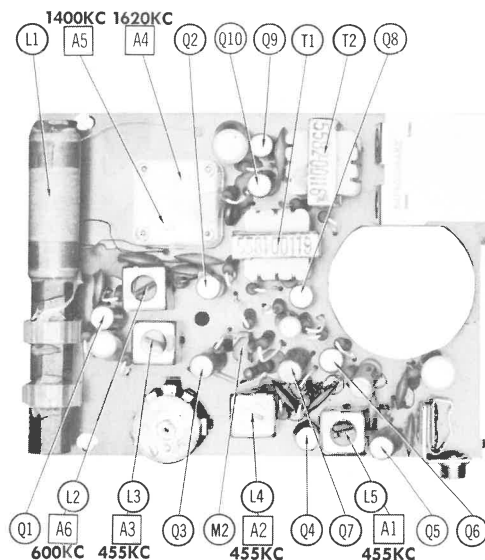
MOTOROLA MODELS XP23DE,  
XP23DL,  
XP23DN

## ALIGNMENT INSTRUCTIONS

Check for specified source voltage. Set volume control at maximum.  
Fashion loop of several turns of wire and connect generator across loop.  
Use only enough generator output to obtain a suitable indication.  
Suggested Alignment Tools:

A1,A2,A3,A6.....GENERAL CEMENT #9087.....WALSCO #2528  
A4,A5.....GENERAL CEMENT #8605.....WALSCO #2505

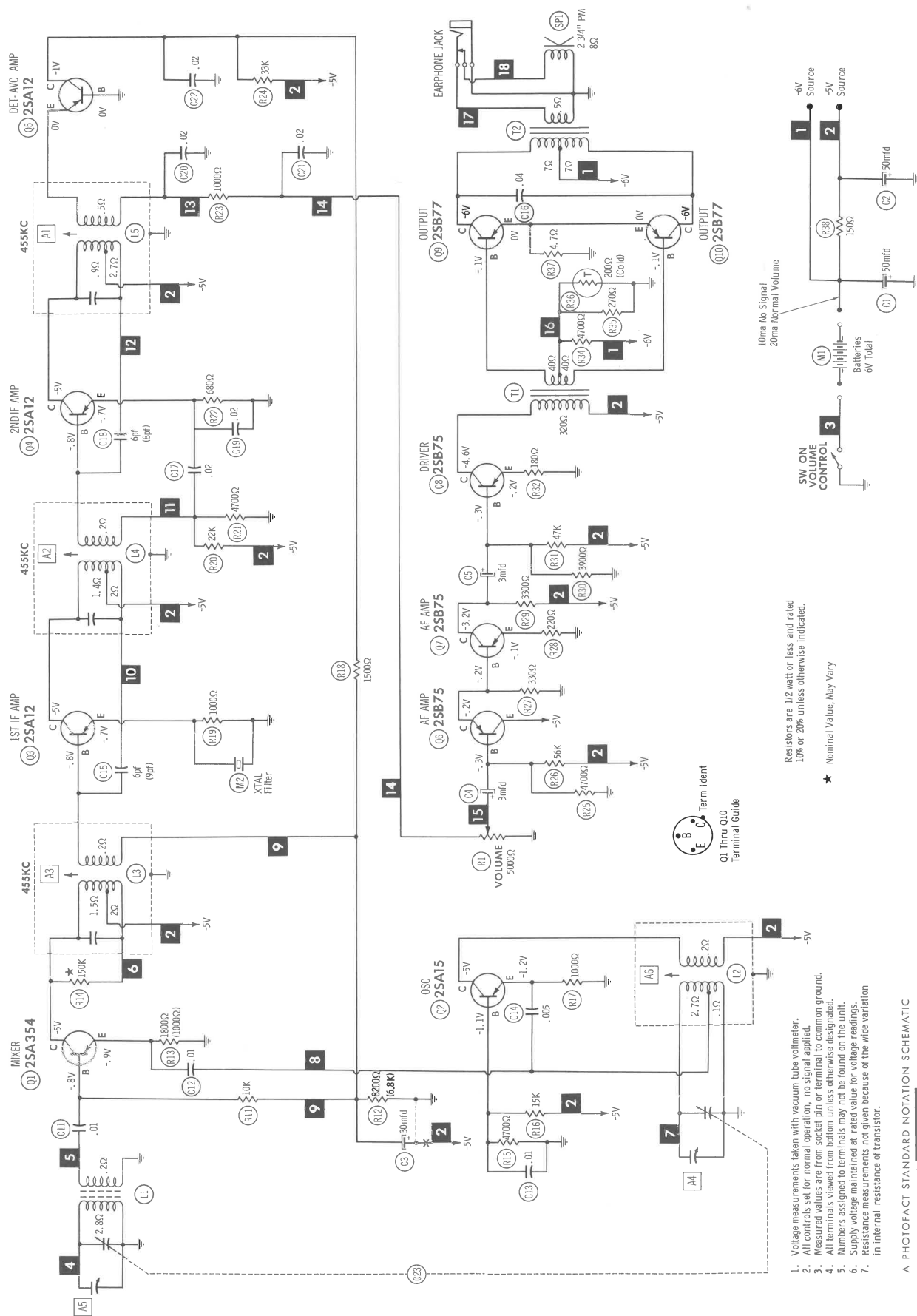
	GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
1.	455KC 400 cycle modulation	Tuning gang fully open.	Output Meter across voice coil.	A1,A2, A3	Adjust for maximum. Repeat until no further improvement can be made.
2.	1620KC	"	"	A4	Adjust for maximum.
3.	1400KC	Tune to signal	"	A5	"
4.	600KC	"	"	A6	Rock tuning gang and adjust for maximum. Repeat steps 2 thru 4 until no further improvement can be made.

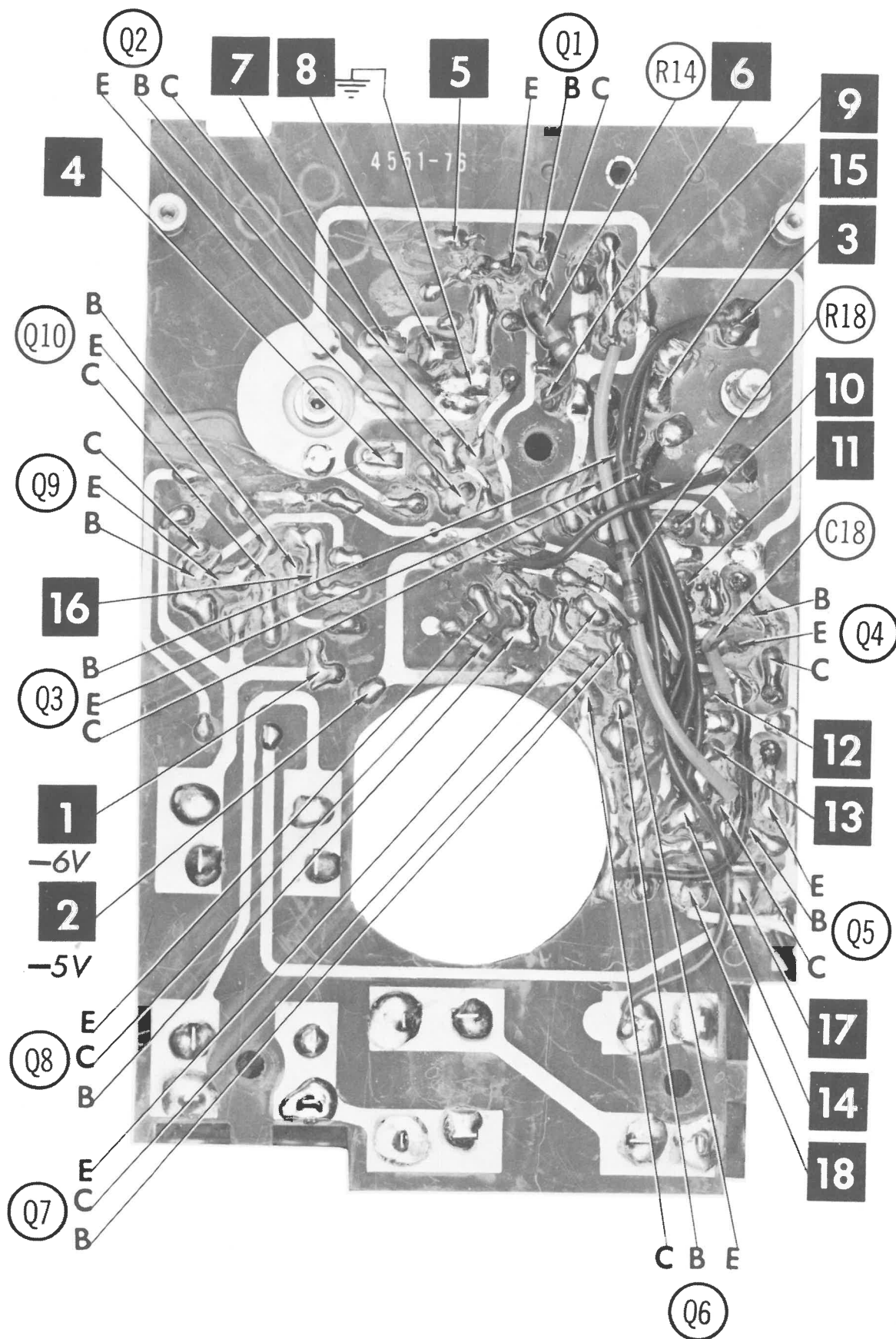


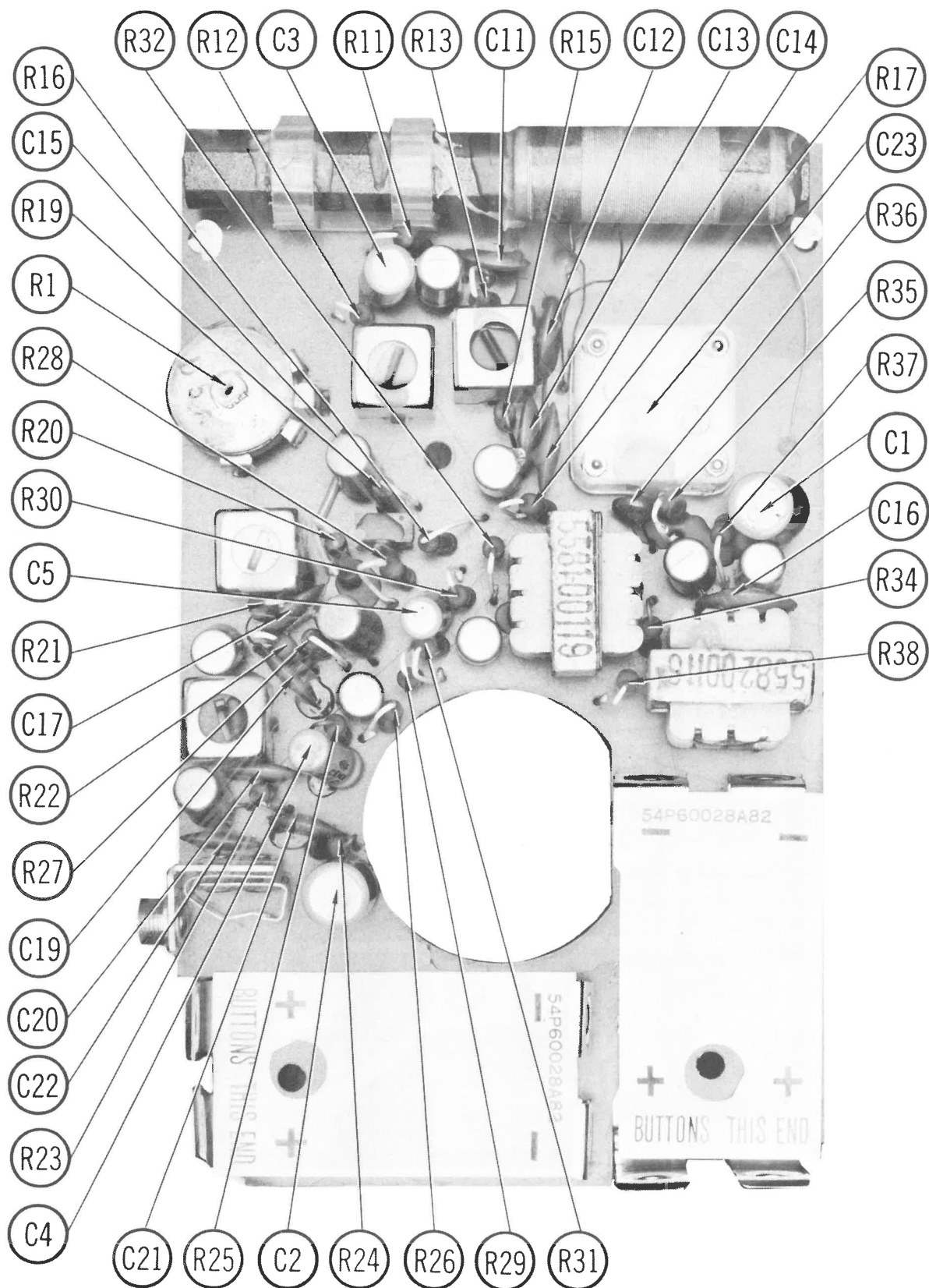
MOTOROLA MODELS XP23DE/DL/DN

**HOWARD W. SAMS & CO., INC.** Indianapolis, Indiana 46206

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# PARTS LIST AND DESCRIPTION

(When ordering parts, state Model, Part Number, and Description.)

## TRANSISTORS

ITEM No.	TYPE No.	FUNCTION	REPLACEMENT DATA						
			MFGR. PART No.	DELCO PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MOTOROLA PART No.	RCA PART No.	SYLVANIA PART No.
Q1	2SA354	Mixer	48P63029A90	DS-25	GE-9	TR-11		SK-3008	ECG 126
Q2	2SA15	Oscillator	48P63029A91	DS-25	GE-9	TR-11		SK-3008	ECG 126
Q3	2SA12	1st IF Amplifier	48P63029A92	DS-25	GE-9	TR-11		SK-3008	ECG 126
Q4	2SA12	2nd IF Amplifier	48P63029A92	DS-25	GE-9	TR-11		SK-3008	ECG 126
Q5	2SA12	Det-AVC Amplifier	48P63029A92	DS-26		TR-14		SK-3004	ECG 126
Q6	2SB75	AF Amplifier	48P63029A93	DS-26		TR-14		SK-3004	ECG 126
Q7	2SB75	AF Amplifier	48P63029A93	DS-26		TR-14		SK-3004	ECG 126
Q8	2SB75	Driver	48P63029A93	DS-26		TR-14		SK-3004	ECG 126
Q9	2SB77	Output	48P63029A94	DS-26		TR-14		SK-3004	ECG 126
Q10	2SB77	Output	48P63029A94	DS-26		TR-14		SK-3004	ECG 126

## ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA						
		PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	50 6V	23P60022A94	BCD6050	EP6-50	NLW50-10		TT6X50	
C2	50 6V	23P60022A94	BCD6050	EP6-50	NLW50-10		TT6X50	
C3	30 6V	23P63076A57		EP6-25	NLW30-6		TT6X30	
C4	3 6V	23P63075A41	BCD6003	EP6-2	NLW3-25		TT6X3	TE-1082
C5	3 6V	23P63075A41	BCD6003	EP6-2	NLW3-25		TT6X3	TE-1082

## CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENDO PART No.	MALLORY PART No.	SPRAGUE PART No.
C11	.01		TTP-01	CK-103	HOY101ZV103P	CCD-103	TA110	TG-S10
C12	.01		TTP-01	CK-103	HOY101ZV103P	CCD-103	TA110	TG-S10
C13	.01		TTP-01	CK-103	HOY101ZV103P	CCD-103	TA110	TG-S10
C14	.005		TTP-005	CK-502	HOY101ZV502P	CCD-502	TA250	TG-D50
C15	6							10TCC-V56
C16	.04			DD-403			GP140	
C17	.02		TTP-02	CK-203	HOR101ZV203P	CCD-203	TA120	TG-S20
C18	6							10TCC-V56
C19	.02		TTP-02	CK-203	HOR101ZV203P	CCD-203	TA120	TG-S20
C20	.02		TTP-02	CK-203	HOR101ZV203P	CCD-203	TA120	TG-S20
C21	.02		TTP-02	CK-203	HOR101ZV203P	CCD-203	TA120	TG-S20
C22	.02		TTP-02	CK-203	HOR101ZV203P	CCD-203	TA120	TG-S20
C23	.02	#19P63024A22						

# Motorola Part Number

## CONTROLS (All wattages 1/2 watt, or less, unless listed)

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA			
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.
R1	Volume & Switch	5000	18P63075A39			

## RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	MFGR. PART No.
R36	200 (Cold)			6P63029A95 (23D27)

ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	MFGR. PART No.

## COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
L1	Loopstick	24P63075A36			
L2	Oscillator	24P63029A98		2069	
L3	Input IF	24P63029A99	16-9026	2066	
L4	Interstage IF	24P63029A26	16-9027	2067	
L5	Output IF	24P63029A63	16-9028	2068	

MOTOROLA MODELS XP23DE/DL/DN

# PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

## TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA					NOTES
	PRI.	SEC. 1	SEC. 2	PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD Part No.	
T1	2	1 CT		25P63076A44					

## TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	MFGR. PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T2	242	8	25P63076A43					

## SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA			NOTES
		PART No.	JENSEN PART No.	QUAM PART No.	
SP1	2 3/4" PM 8 ohms	50P63075A37			

## BATTERIES

ITEM No.	VOLTAGE	MFGR. PART No.	REPLACEMENT DATA		NOTES
			EVEREADY	MALLORY	
M1	6V		1015 or E91 or E9	M15R or MN1500 or ZM9	4 Required

## CABINETS & CABINET PARTS (When ordering specify model, chassis & color)

ITEM	PART No.	ITEM	PART No.
Cabinet, Front (Complete)	16P63076A30	Cabinet, Back (Model XP23DN)	16P63075A11
Cabinet, Back (Model XP23DE)	16P63075A14	Knob, Tuning	36P63075A20
Cabinet, Back (Model XP23DL)	16P63075A12	Knob, Volume	36P63075A21

## WIRING DATA

General-use Unshielded Hook-up Wire .....	Use BELDEN No. 8530 (Solid 22AWG) 8524 (Stranded 22AWG) 8570 (Stranded 26AWG)	Available in 12 Colors
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## DIAL CORD—FRONT VIEW

