



PHOTOFACT[®] with

CIRCUITRACE[®]



TRADE NAME : Midland Model 10-136B

SUPPLIER : For Current Address, see Annual Index

TYPE SET : 6-Transistor AM Receiver

POWER SUPPLY : 9 Volts DC

RATING : 10ma @ 9VDC (No Signal, Min. Volume)
20ma @ 9VDC (Signal, Normal Volume)

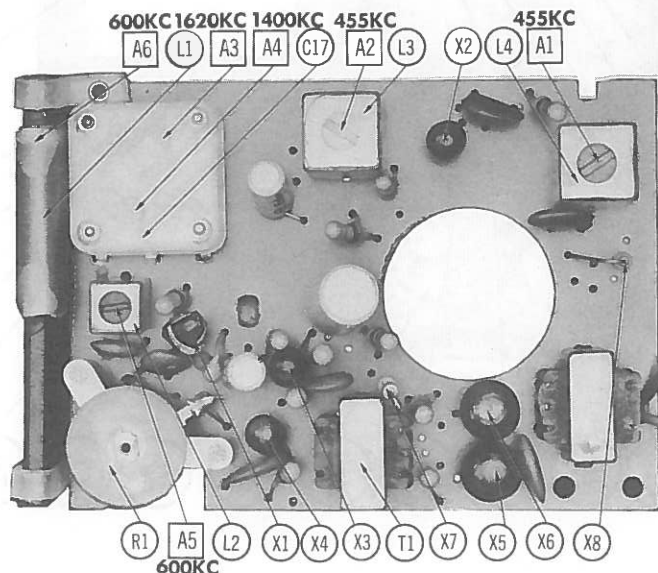
TUNING RANGE: BROADCAST 540 — 1620KC

ALIGNMENT INSTRUCTIONS

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

A1, A2..... GENERAL CEMENT #9087..... WALSCO #2528
A3, A4, A5.... GENERAL CEMENT #8868, 9089.... WALSCO #2541, 2587

GENERATOR FREQUENCY	DIAL SETTING	INDICATOR	ADJUST	REMARKS
1. 455KC (400% Mod.)	Tuning gang fully open.	Output Meter across Voice coil.	A1, A2	Adjust for maximum. Repeat until no further improvement can be made.
2. 1620KC	"	"	A3	Adjust for maximum.
3. 1400KC	Tune to signal.	"	A4	Adjust for maximum.
4. 600KC	"	"	A5, A6	Rock tuning gang and adjust for maximum. Repeat steps 2 thru 4 until no further improvement can be made. Adjust A6 by sliding coil on ferrite core.



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.	ORIG. TYPE	USE	REPLACEMENT DATA			NOTES
			DELCO PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	
X1		Converter	DS-75			NPN
X2		IF Amp.	DS-75	GE-10		NPN
X3		AF Amp.	DS-66	GE-10	SK-3020	NPN
X4		Driver	DS-66	GE-10	SK-3020	NPN
X5		Output	DS-66	GE-10	SK-3020	NPN
X6		Output	DS-66	GE-10	SK-3020	NPN

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MEASURED CURRENT	ORIGINAL Part or Type No.	RECTIFIERS & DIODES		RECTIFIERS		
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	RCA PART No.	SARKES TARZIAN PART No.
X7			1N34AS	1N34A			
X8			1N34AS	1N34A			

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		MIDLAND PART No.	REPLACEMENT DATA				
	CAP.	VOLT.		AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	50	10		BCD10050	NLW50-10	MT1-16	PET1575	VL-1134
C2	10	6		BCD6010	NLW10-6B	MT1-5	PET1340	VL-1087
C3	2	3		BCD3002	NLW2-50B	MT1-1	TT3X2	VL-1032

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C10	.01		TTD-01	CK-103	HOY101ZV103P		TA110	TG-S10
C11	.01		TTD-01	CK-103	HOY101ZV103P		TA110	TG-S10
C12	.02		TTD-02	CK-203	HOR101ZV203P		TA120	TG-S20
C13	.02		TTD-02	CK-203	HOR101ZV203P		TA120	TG-S20
C14	.005		TTD-005	CK-502	HOY101ZV502P		TA250	TG-D50
C15	.02		TTD-02	CK-203	HOR101ZV203P		TA120	TG-S20
C16	.05		TTD-05	CK-503	HOY101ZV503Z		TA150	TG-S50

CONTROLS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	USE	RESISTANCE	REPLACEMENT DATA			
			MIDLAND PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.
R1	Volume & Switch	5000Ω		B16-214		

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA				
		MIDLAND PART No.	MEISSNER Part No.	MERIT PART No.	MILLER PART No.	WORKMAN PART No.
L1	Loopstick			2010		
L2	Osc.					
L3	1st IF		16-9026	BC-574	2066	
L4	2nd IF		16-9028	BC-576	2068	

TRANSFORMER (DRIVER)

ITEM No.	TURNS RATIO		REPLACEMENT DATA					NOTES
			MIDLAND	MERIT	STANCOR	THORDARSON	TRIAD	
	PRI.	SEC.	PART No.	PART No.	PART No.	PART No.	PART No.	
T1	1	1						

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
			MIDLAND PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
	PRI.	SEC.						
T2	200Ω CT	8Ω						

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MIDLAND PART No.	QUAM PART No.	
SP1	2 1/4" PM 6-8Ω			

BATTERIES

ITEM No.	VOLTAGE	MIDLAND PART No.	REPLACEMENT DATA			NOTES
			BURGESS	EVEREADY	MALLORY	
M1	9V		2U6 or H146 or 2MN6	216 or E146X	M1604 or TR146X	

WIRING DATA

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

MIDLAND MODEL 10-136B



A PHOTOFACT STANDARD NOTATION SCHEMATIC
with **CIRCUITRACE™**

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- ③ See parts list
1. Voltage measurements taken with vacuum tube voltmeter.
2. All controls set for normal operation, no signal applied.
3. Measured values are from socket pin or terminal to common ground.
4. All terminals viewed from bottom unless otherwise designated.
5. Numbers assigned to terminals may not be found on the unit.
6. Supply voltage maintained at rated value for voltage readings.
7. Resistance measurements not given because of the wide variation in internal resistance of transistor.

NC NO CONNECTION

Resistors are 1/2 watt or less and rated 10% or 20% unless otherwise indicated.

