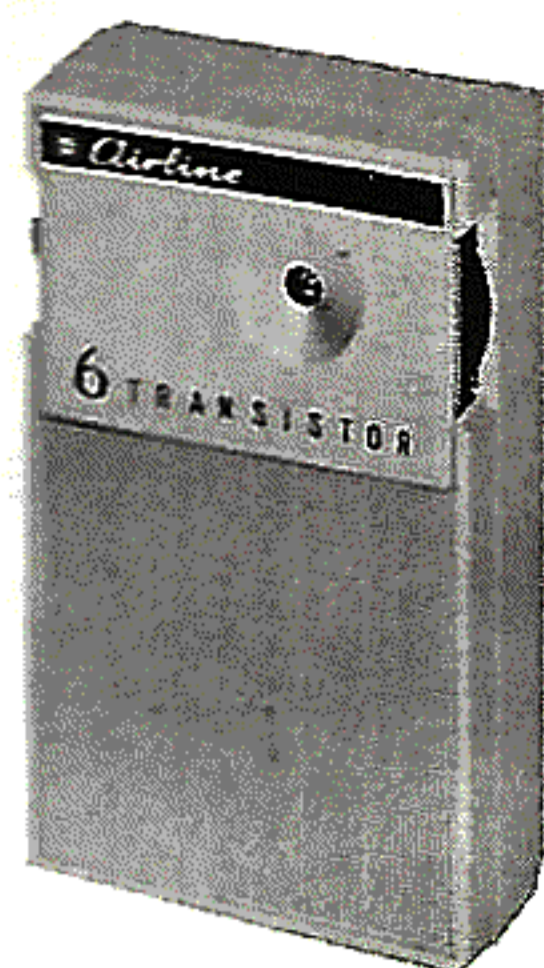
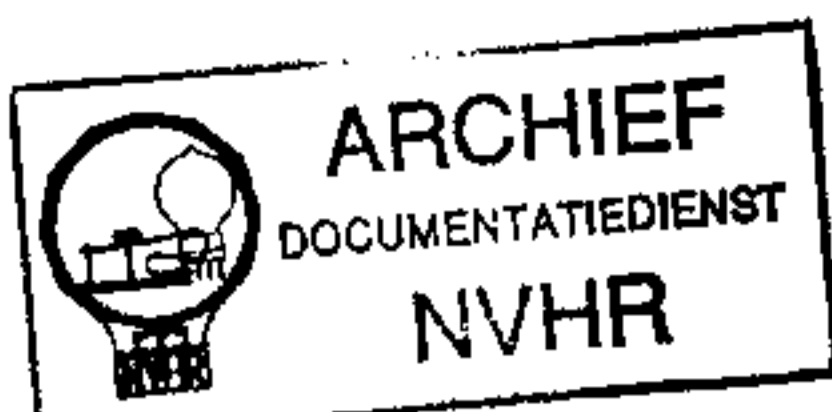




# PHOTOFACT<sup>®</sup> with

# CIRCUITRACE<sup>®</sup>

Ned. Ver. v. Historie v/d Radio



**TRADE NAME:** Airline Model GEN-1225A  
**SUPPLIER:** Montgomery Ward & Co.,  
 619 Chicago Ave., Chicago 7, Illinois  
**TYPE SET:** 6 Transistor AM Receiver  
**POWER SUPPLY:** 9 Volts DC  
**RATING:** 8MA @ 9VDC (No Signal, Min. Volume)  
 30MA @ 9VDC (Signal, Normal Volume)  
**TUNING RANGE:** BROADCAST 535 - 1620KC

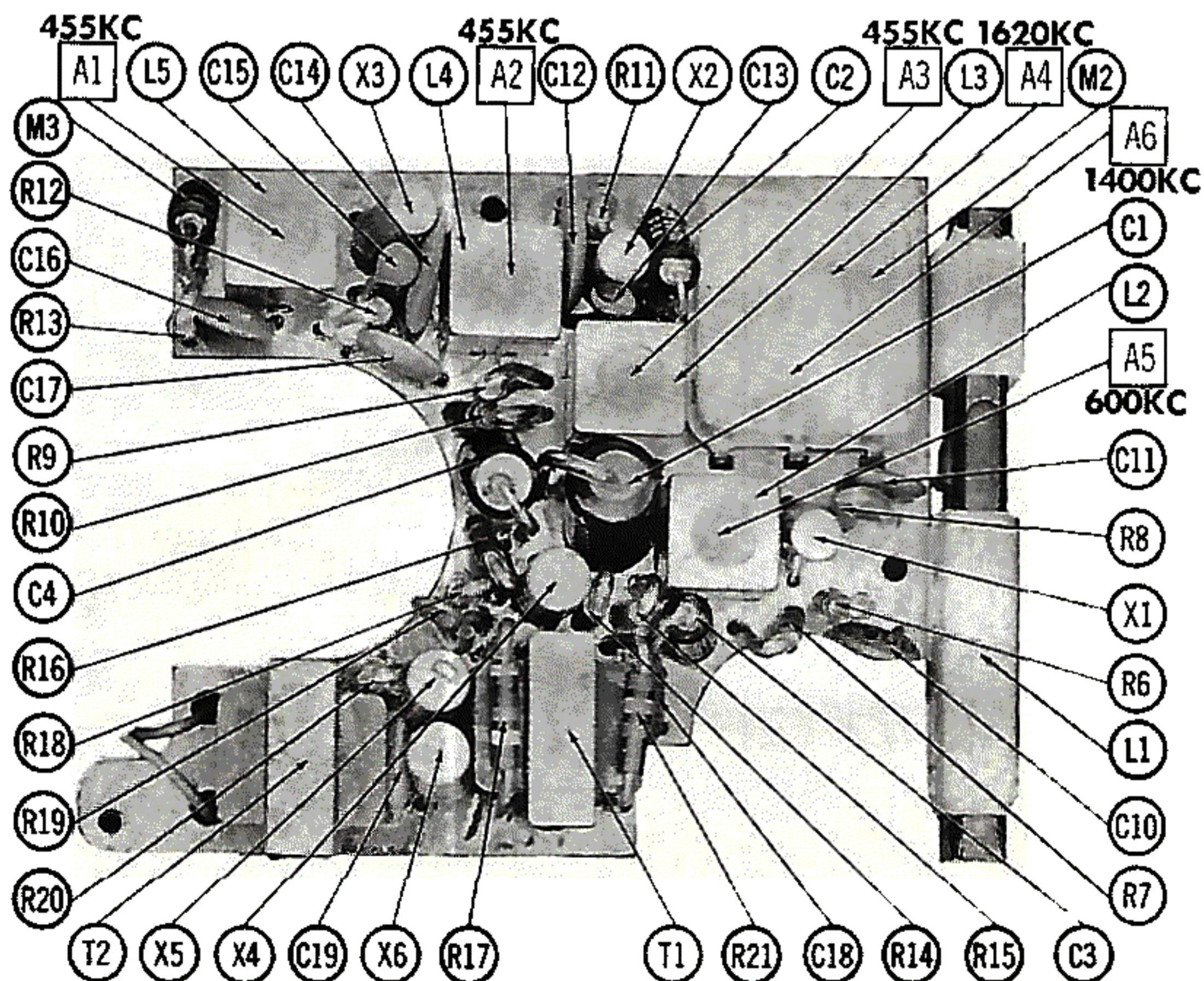
Met dank aan Jef Bos

## ALIGNMENT INSTRUCTIONS

Check for specified source voltage.  
 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 thru A6.....GENERAL CEMENT #5000, 5066, 8290.....WALSCO #2512, 2525, 2528

	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
1.	455KC (400% Mod.)	Tuning gang fully open.	Output Meter across voice coil.	A1, A2, A3	Adjust for maximum. Repeat as required.
2.	1620KC	"	"	A4	Adjust for maximum.
3.	600KC	Tune to Signal.	"	A5	Rock tuning gang and adjust for maximum. Repeat steps 2 and 3.
4.	1400KC	"	"	A6	Adjust for maximum.



**HOWARD W. SAMS & CO., INC.** Indianapolis 6, Indiana

## TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA			NOTES
			DELCO PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	
X1	2SA101	Converter	DS-25			PNP
X2	2SA101	1st IF Amplifier	DS-25			PNP
X3	2SA101	2nd IF Amplifier	DS-25			PNP
X4	2SB175	Driver			2N406	PNP
X5	2SB172	Output			2N408	PNP
X6	2SB172	Output			2N408	PNP

## ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	AIRLINE PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	GENERAL INSTRUMENT PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	50	10	J3244						
C2	10	6	J3243	CRE307A	NLW10-6				TE-1087
C3	5	3	J3241	CRE204A	NLW5-15	MT1-3			TE-1052, 2
C4	30	3	J3242	CRE212A	NLW25-3				

## FIXED 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	.005		TTD-005	CK-502	H1		TA-250	TG-D50
C11	.005		TTD-005	CK-502	H1		TA-250	TG-D50
C12	.02		TTD-02	CK-203	H3		TA-120	TG-S20
C13	1 NPO		NPO-D1 1.0	TCZ-1.0	C10V15C		CNO-510	10TCC-V10
C14	.02		TTD-02	CK-203	H3		TA-120	TG-S20
C15	2		NPO-D1 2.2	D'TZ-2R2	C10V22C	CCTO-2R2	CNO-522	10TCC-V22
C16	.01		TTD-01	CK-103	H2		TA-110	TG-S10
C17	.01		TTD-01	CK-103	H2		TA-110	TG-S10
C18	.01	(.005) †	TTD-01	CK-103	H2		TA-110	TG-S10
C19	.01		TTD-01	CK-103	H2		TA-110	TG-S10

† Alternate Value.

## CONTROLS

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

ITEM No.	USE	RESISTANCE	REPLACEMENT DATA				
			AIRLINE PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1	Volume & Switch	5000Ω	J2513	B16-214 ①			

① Use Original Knob.

## COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		AIRLINE PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	WORKMAN PART No.	
L1	Loopstick	J6015					
L2	Ons.	J6133					
L3	1st IF	J6234	IK-874	2086	RTC-0886		
L4	2nd IF	J6236	IK-876	2087	RTC-0887		
L5	3rd IF	J6238	IK-878	2088	RTC-0888		

# DESCRIPTION

## TRANSFORMER (DRIVER)

ITEM No.	TURNS RATIO		REPLACEMENT DATA					NOTES
			AIRLINE PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
	PRI.	SEC.						
T1	2	1	J1123					

## TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
			AIRLINE PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
	PRI.	SEC.						
T2	800Ω CT	6-8Ω	J1124					

## SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		AIRLINE PART No.	QUAM PART No.	
SP1	2 1/4" PM 6-8Ω	J1014		

## BATTERIES

ITEM No.	VOLTAGE	AIRLINE PART No.	REPLACEMENT DATA			NOTES
			BURGESS	EVEREADY	MALLORY	
M1	9	124	2U6 (or H146)	216 (or E146)	M-1604 (or MN1604, TR-146)	

## MISCELLANEOUS

ITEM No.	PART NAME	AIRLINE PART No.	NOTES
M2 M3	Tuning Cap. Detector (OA70)	J3318 J2453	

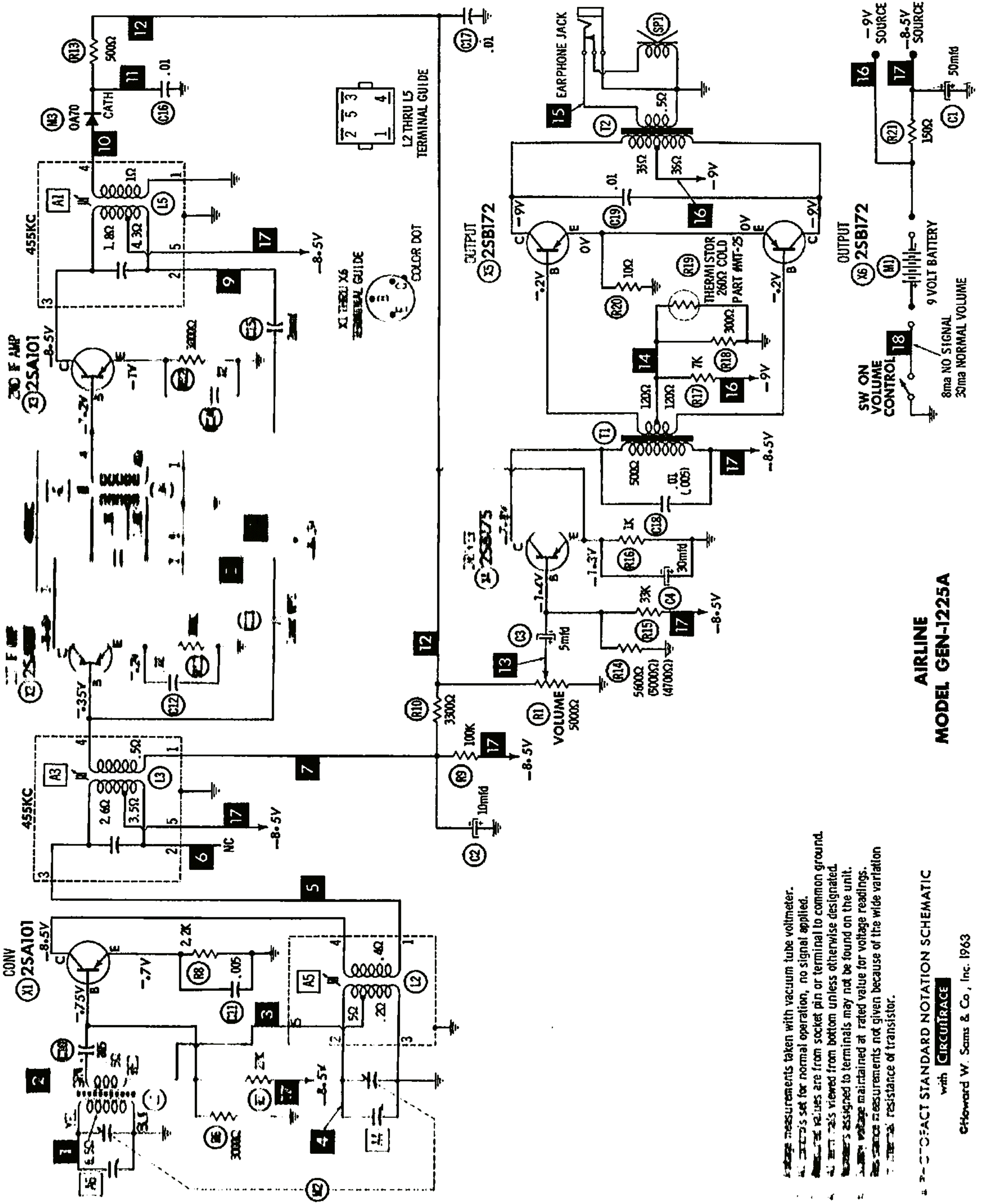
## CABINETS & CABINET PARTS

(When Ordering Specify Model, Chassis & Color)

ITEM	PART No.	ITEM	PART No.
Knob - Tuning Knob - Volume	J5034 J5035	Cabinet - Complete	J985

## WIRING DATA

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



**AIRLINE  
MODEL GEN-1225A**

STANDARD NOTATION SCHEMATIC  
with **CIRCUITACE**  
Edward W. Sams & Co., Inc. 1963

Voltage measurements taken with vacuum tube voltmeter.  
Meter's set for normal operation, no signal applied.  
All values are from socket pin or terminal to common ground.  
Values assigned to terminals may not be found on the unit.  
Voltage maintained at rated value for voltage readings.  
Measurements not given because of the wide variation  
in resistance of transistor.

