

PHOTOFACT[®] with CIRCUITRACE[®]



TRADE NAME : General Electric Models P820A, P821A
 SUPPLIER : General Electric Co.
 Product Service, Radio Receiver Dept.
 1001 Broad Street, Utica, N. Y.
 TYPE SET : 6 Transistor AM Receiver
 POWER SUPPLY : 3 Volts DC
 RATING : 14MA @3VDC (No Signal, Min. Volume)
 20MA @3VDC (Signal, Normal Volume)
 TUNING RANGE : BROADCAST 540 - 1620KC

ALIGNMENT INSTRUCTIONS

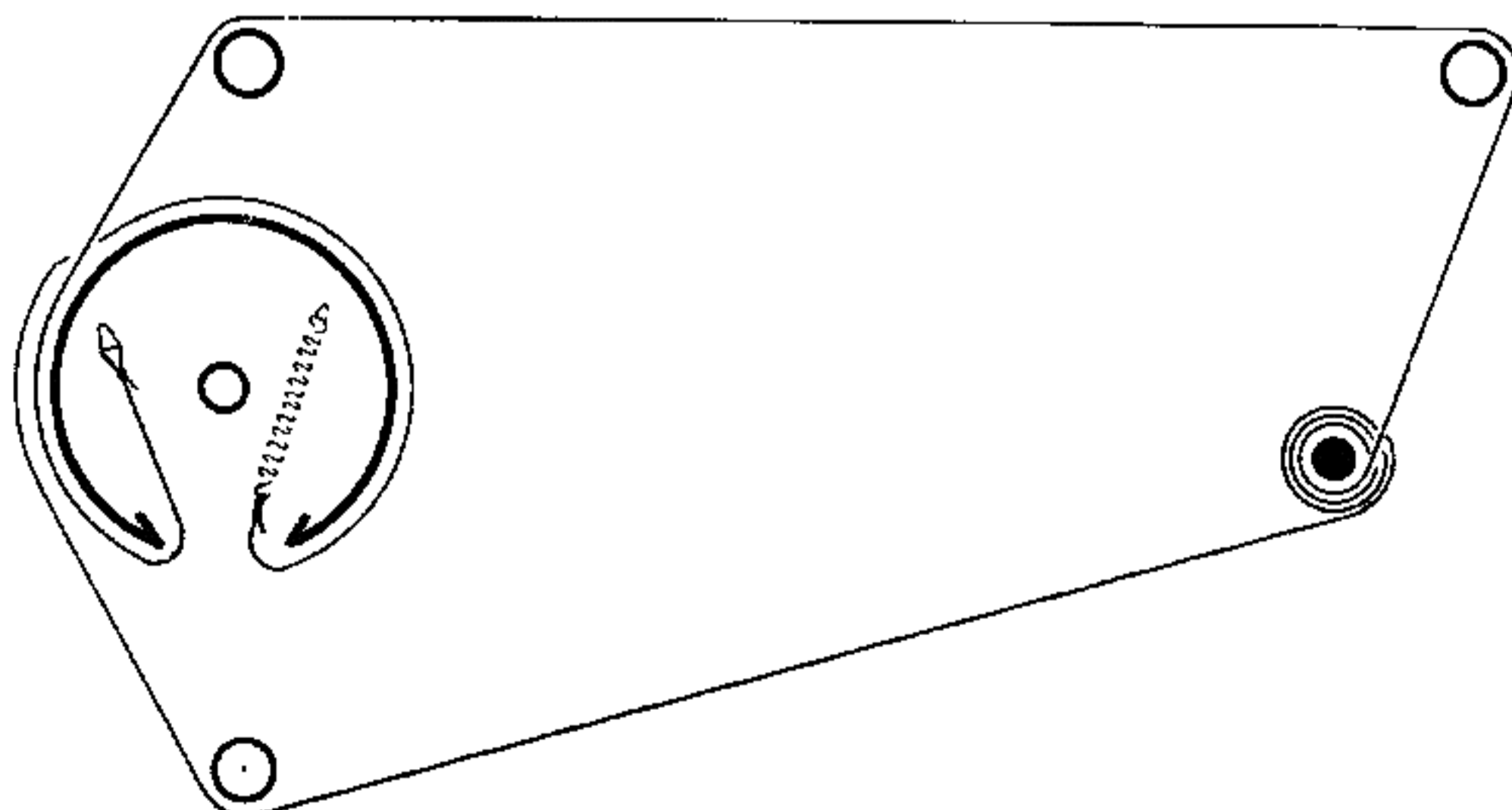
Check for specified source voltage.
 Fashion loop of several turns of wire and connect generator across loop.
 Adjust output of generator to radiate only enough signal into receiver to obtain a suitable indication.

Suggested Alignment Tools:

A1, A2, A3, A5..... GENERAL CEMENT #5067, 8282, 8606
 WALSCO #2526, 2543
 A4, A6..... GENERAL CEMENT #5000, 5066, 8290
 WALSCO #2512, 2525, 2528

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

DIAL CORD STRINGING



TRANSISTORS

ITEM No.	MFGR. PART No.	USE	REPLACEMENT DATA			NOTES
			DELCO PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	
X1	RS-327	Converter	DS-25	GE-9		PNP
X2	RS-3311	1st IF Amplifier	DS-25	GE-9		PNP
X3	RS-5301	2nd IF Amplifier	DS-25	GE-9		PNP
X4	RS-5504	Driver			2N408	PNP
X5	RS-3285	Output	DS-26		2N408	PNP Note 1
X6	RS-3285	Cutput	DS-26		2N408	PNP Note 1

Note 1. Some versions may use NPN transistors.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	G. E. PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	GENERAL INSTRUMENT PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	90	5	RS-3412						
C2	8	25	RS-2285		NLW8-25				

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	.05 10V		TTD-05	CK-503	H5		TA-150	TG-S50
C11	.01 100V		TTD-01	CK-103	H2		TA-110	TG-S10
C12	10 NPO 10%		NPO-DI 10	DTZ-10	C10Q1C	CCTO-100	CNO-410	10TCC-Q10
C13	.05 10V		TTD-05	CK-503	H5		TA-150	TG-S50
C14	.47 3V			UK10-404	HCC10474Z			HY-330
C15	.005 100V		TTD-005	CK-502	H1		TA-250	TG-D50
C16	.05 10V		TTD-05	CK-503	H5		TA-150	TG-S50

CONTROLS

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

ITEM No.	USE	RESIST-ANCE	REPLACEMENT DATA				
			G. E. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1	Volume & Switch	10K	RS-3354				

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		G. E. PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	WORKMAN PART No.	
L1	Loopstick	RS-3410					
L2	Osc.	RS-3409					
L3	1st IF	RS-2977					
L4	2nd IF	RS-2978					
L5	3rd IF	RS-2979					

DESCRIPTION

TRANSFORMER (DRIVER)

ITEM No.	TURNS RATIO		REPLACEMENT DATA				NOTES
			G. E. PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	
	PRI.	SEC.					
T1	1	1	RS-3421				

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		G. E. PART No.	QUAM PART No.	
SP1	2 5/ 8" Magnetic 130Ω CT	RB-1233		

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	G. E. PART No.	REPLACEMENT DATA
K1	Blas - Bypass	150Ω, 220Ω, 1500Ω, .01mfd, .01mfd, .01mfd	RS-3411 (154A3019-1)	Centralab PC-422

BATTERIES

ITEM No.	VOLTAGE	G. E. PART No.	REPLACEMENT DATA			NOTES
			BURGESS	EVEREADY	MALLORY	
M1	3		930 (or AL-9, Hg-9)	1015 (or E91, E9)	M-15R (or MN1500, ZM-9)	2 Required

MISCELLANEOUS

ITEM No.	PART NAME	G. E. PART No.	NOTES
M2 M3	Tuning Cap. Detector	RS-2972 RS-1811	

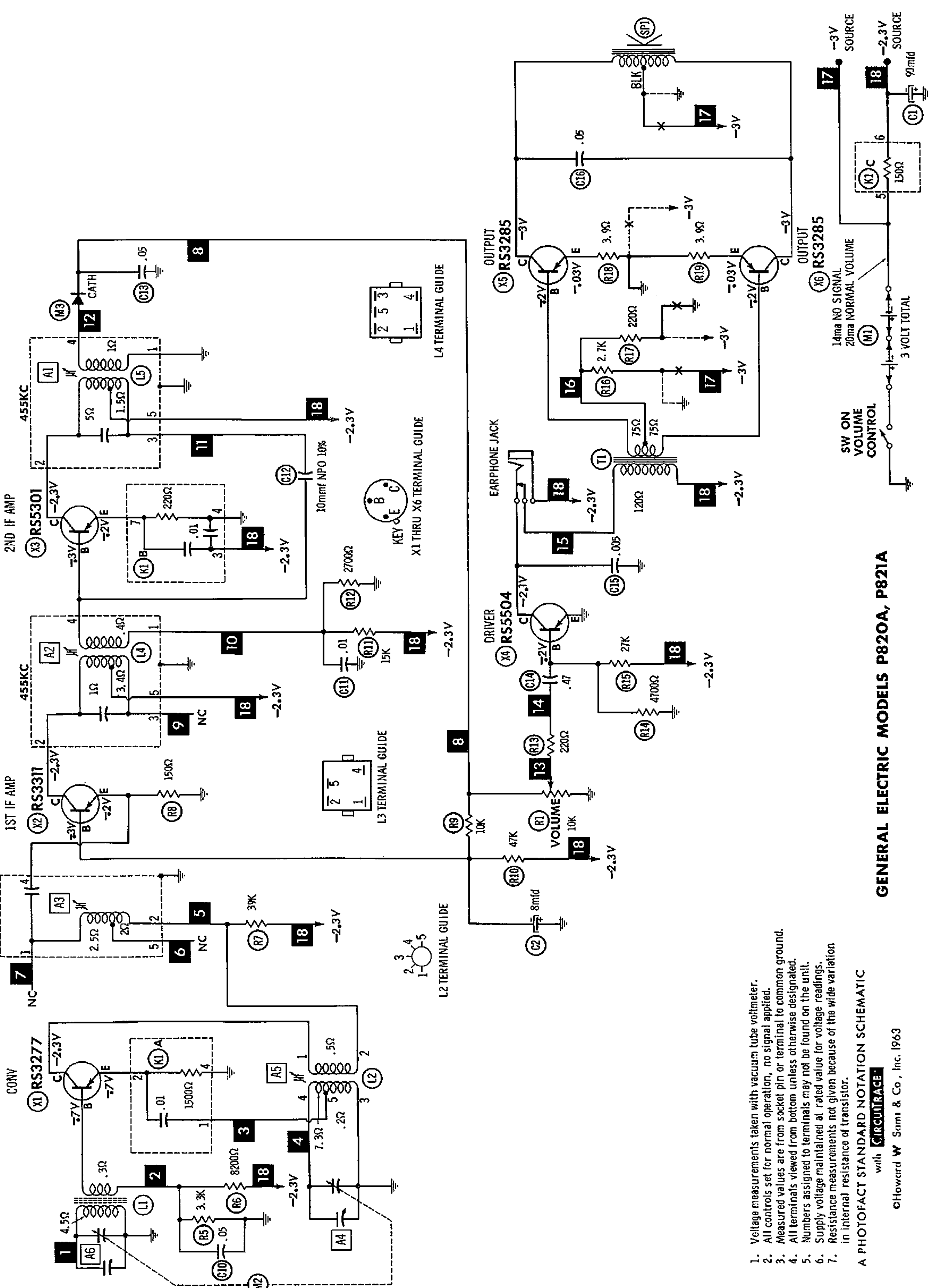
CABINETS & CABINET PARTS

(When Ordering Specify Model, Chassis & Color)

ITEM	PART No.	ITEM	PART No.
Knob - Tuning	RS-3349	Cabinet Front Model P821A	RB-1226
Knob - Volume	RS-3350	Cabinet Back Model P820A	RB-1227
Cabinet Front Model P820A	RB-1225	Cabinet Back Model P821A	RB-1228

WIRING DATA

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



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.

A PHOTOFACT STANDARD NOTATION SCHEMATIC

with **CIRCUITRACE**

©Howard W Sams & Co., Inc. 1963

GENERAL ELECTRIC MODELS P820A, P821A

