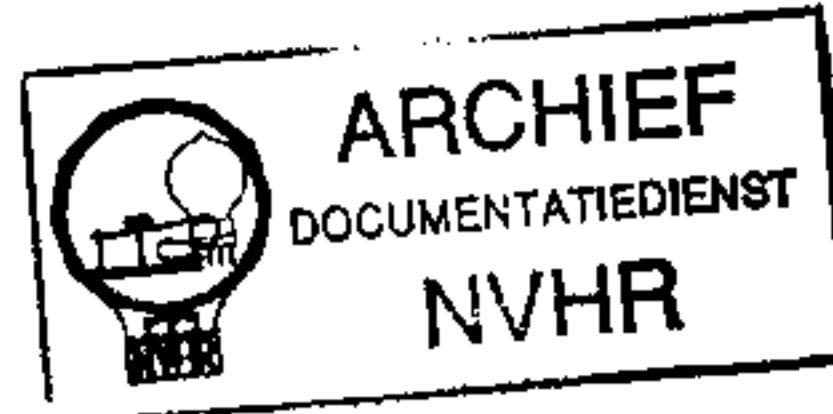


PHOTOFACT® Folder

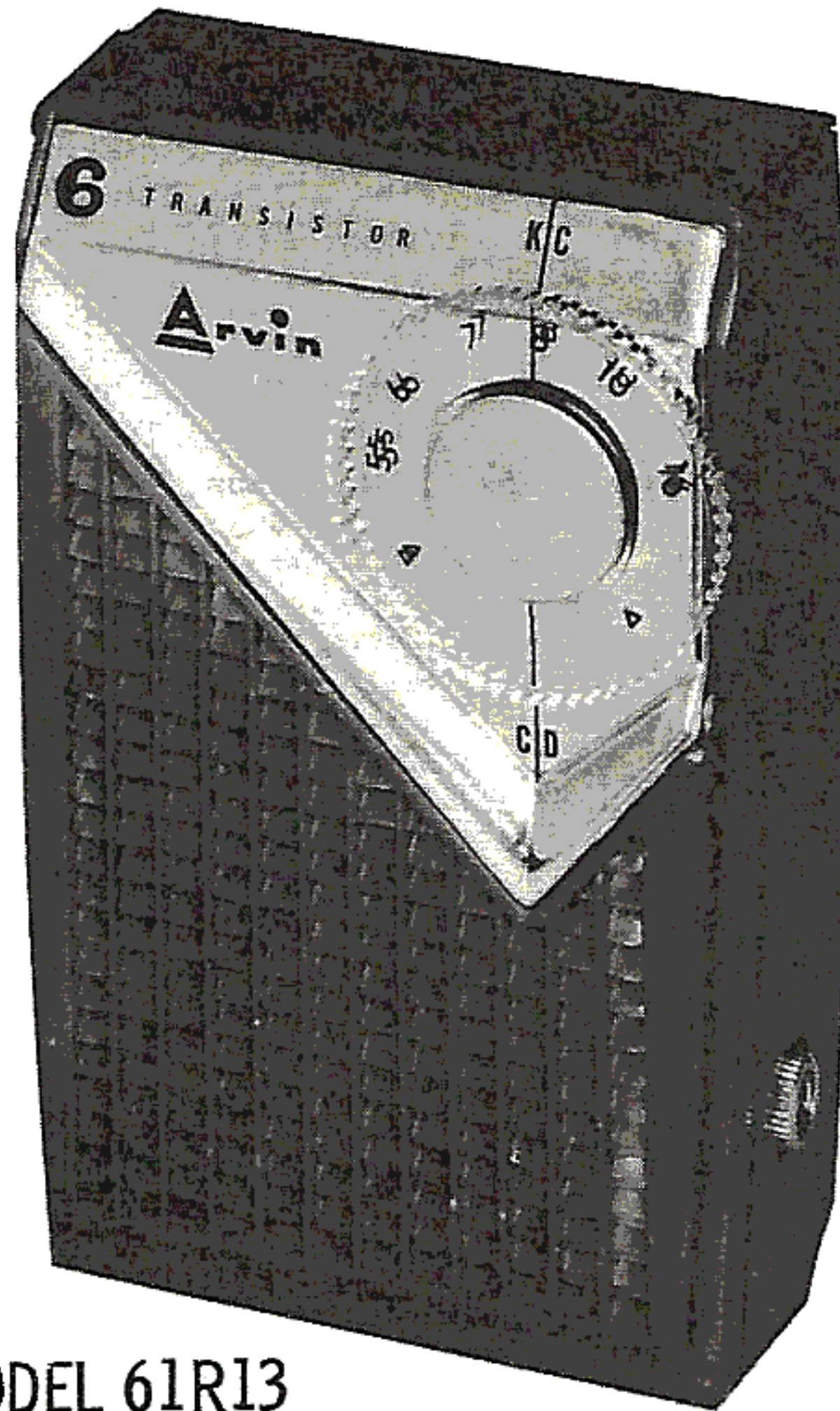
with **CIRCUITRACE®**

**ARVIN MODELS 61R13/16/19/
23/26/29 (Ch. 1.61701)**

Ned. Ver. v. Historie v/



Met dank aan Jef Bos



MODEL 61R13

TRADE NAME	Arvin Models 61R13, 61R16, 61R19, 61R23, 61R26, 61R29 (CH. 1.61701)		
MANUFACTURER	Arvin Industries, Inc., Columbus, Indiana		
TYPE SET	Battery Operated Transistorized Portable AM Receiver		
POWER SUPPLY	9 Volts DC	RATING	8MA @ 9 Volts DC (No Signal, Min. Volume)
TUNING RANGE—BROADCAST	540 — 1670KC		15MA @ 9 Volts DC (Signal, Normal Volume)

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Tuning control should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading.

Suggested Alignment Tools:

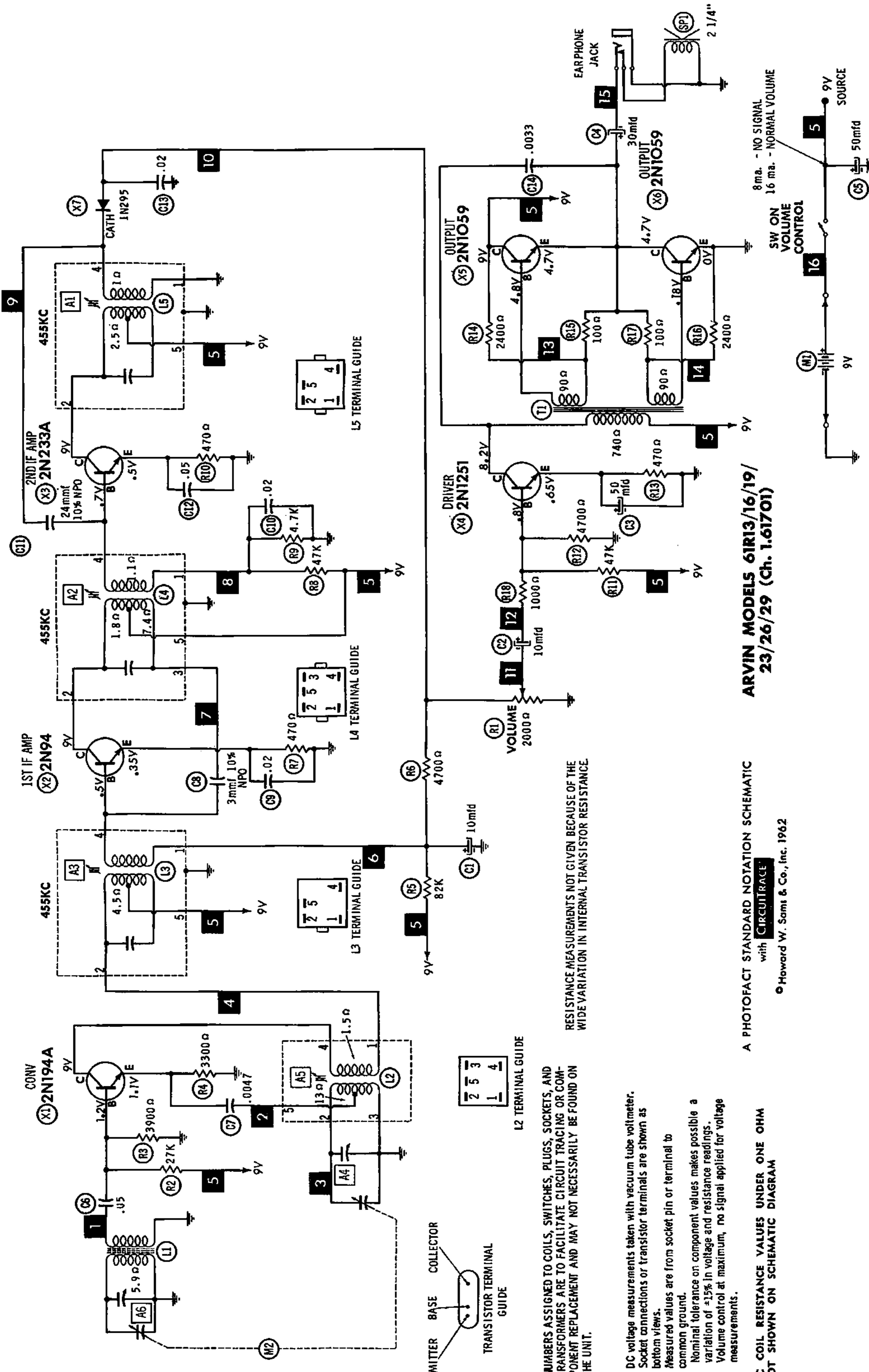
- A1, A2, A3, A5.....GENERAL CEMENT #9440
- A4, A6.....GENERAL CEMENT #5009, 8195, 8274, 8275, 8728, 8729, 8987, 8988, 8989
- WALSCO #2515, 2531, 2532

SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
High side to antenna center leg of tuning gang. Low side to chassis.	455KC (400% Mod.)	Tuning gang fully open.	Across voice coil.	A1, A2, A3	Adjust for maximum output.
Far end of loop of several turns of wire and radiate signal into loop of receiver.	1670KC	"	"	A4	"
"	600KC	600KC	"	A5	Adjust for maximum output while rocking tuning gang.
"	1400KC	1400KC Signal.	"	A6	Adjust for maximum output. Repeat Steps 2, 3 and 4.

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

The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guarantee by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of

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NUMBERS ASSIGNED TO COILS, SWITCHES, PLUGS, SOCKETS, AND TRANSFORMERS ARE TO FACILITATE CIRCUIT TRACING OR COMPONENT REPLACEMENT AND MAY NOT NECESSARILY BE FOUND ON THE UNIT.

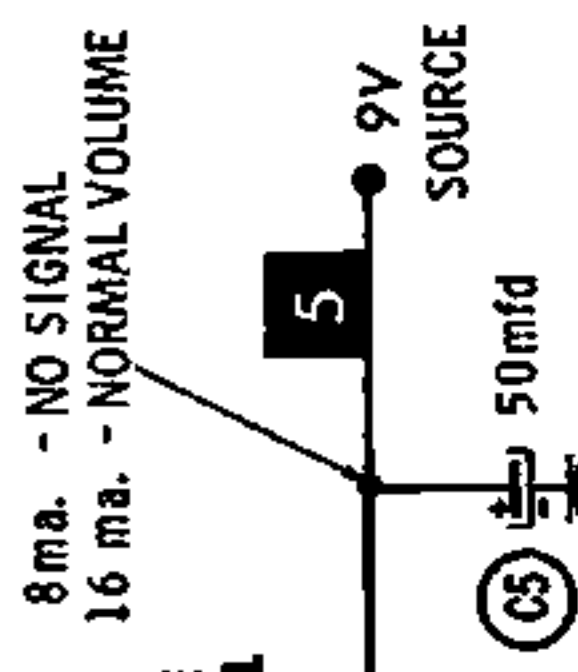
1. DC voltage measurements taken with vacuum tube voltmeter.
2. Socket connections or transistor terminals are shown as bottom views.
3. Measured values are from socket pin or terminal to common ground.
4. Nominal tolerance on component values makes possible a variation of $\pm 15\%$ in voltage and resistance readings.
5. Volume control at maximum, no signal applied for voltage measurements.

RESISTANCE MEASUREMENTS NOT GIVEN BECAUSE OF THE WIDE VARIATION IN INTERNAL TRANSISTOR RESISTANCE.

DC COIL RESISTANCE VALUES UNDER ONE OHM NOT SHOWN ON SCHEMATIC DIAGRAM

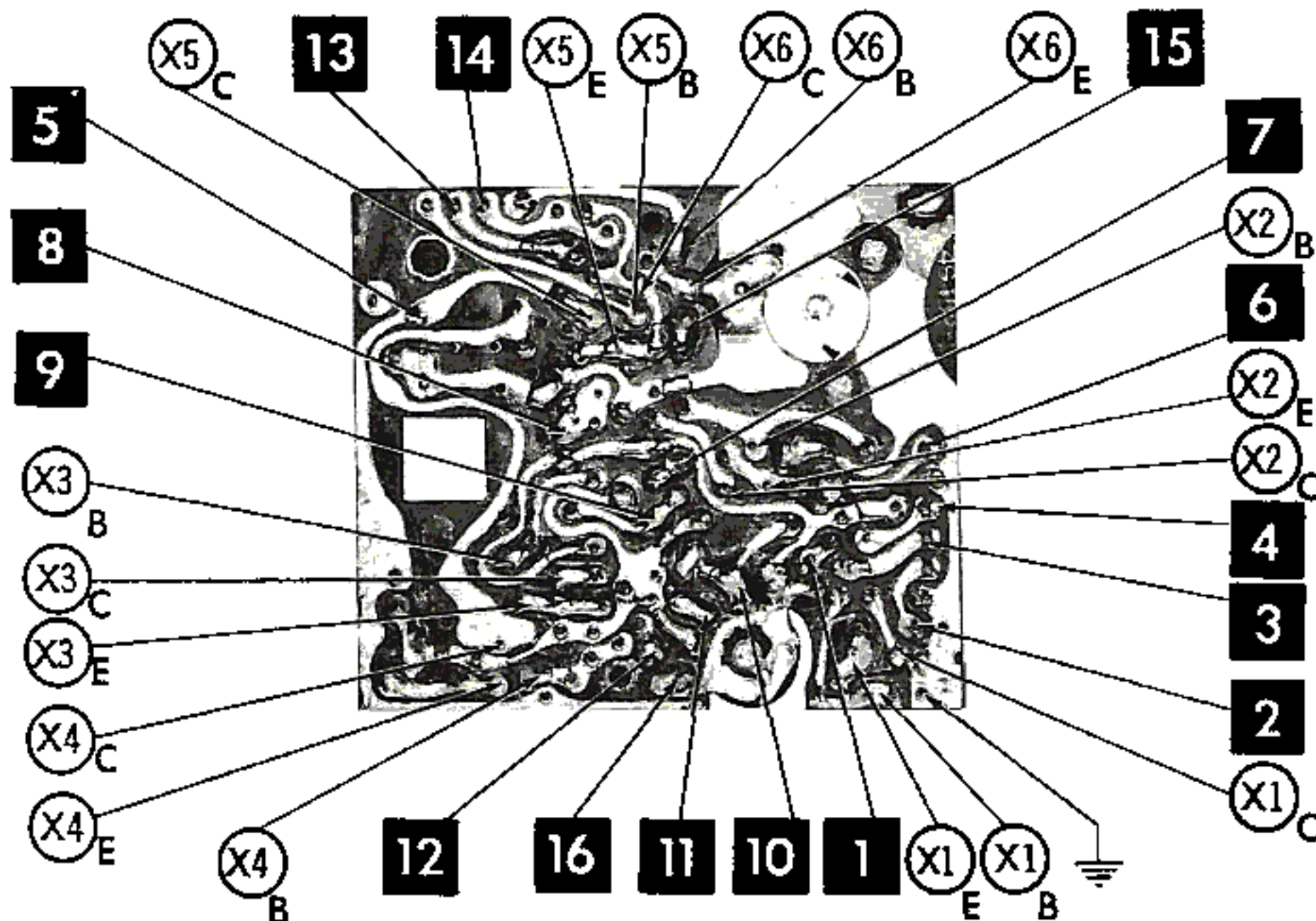
A PHOTOFACT STANDARD NOTATION SCHEMATIC with CIRCUITACE © Howard W. Sams & Co., Inc. 1962

ARVIN MODELS 61R13/16/19/23/26/29 (Ch. 1.61701)



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B - BASE C - COLLECTOR E - EMITTER

PARTS LIST AND DESCRIPTIONS (Continued)

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		ARVIN PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	Workman TV PART No.	
L1	Loopstick	44511-10					
L2	Osc.	49382-2					
L3	1st IF	49388-10					
L4	2nd IF	49388-20					
L5	3rd IF	49388-30					

TRANSFORMER (DRIVER)

ITEM No.	TURNS RATIO	REPLACEMENT DATA					NOTES		
		ARVIN PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.			
T1	3.8	45604-8							
								SEC.1	1
								SEC.2	1

SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
	SIZE	FIELD	V. C. IMP.	ARVIN PART No.	QUAM PART No.	
SPI	2 1/4"	PM	90-110Ω	49506-1		

BATTERIES

ITEM No.	VOLTAGE	ARVIN PART No.	REPLACEMENT DATA						NOTES
			BURGESS		EVEREADY		MALLORY		
			"A"	"B"	"A"	"B"	"A"	"B"	
M1	9V			L8		206		M-1611	

MISCELLANEOUS

ITEM No.	PART NAME	ARVIN PART No.	NOTES
M2	Tuning Cap.	49494-1	2 Gang

CABINETS & CABINET PARTS

(When Ordering Cabinets & Cabinet Parts, Specify Model, Chassis & Color)

NAME	PART NO.	DESCRIPTION
Knob Insert	49347-3	
Knob	49473-1	Tuning, Clear
Knob	49472-199	Volume, Black
Knob	49472-96	Volume, Green
Knob	49472-33	Volume, Red
Cabinet Back	49470-33	Red
Cabinet Front	49471-33	Red
Cabinet Back	49470-96	Green
Cabinet Front	49471-96	Green
Cabinet Back	49470-9	Black
Cabinet Front	49471-9	Black

WIRING DATA

General-use Unshielded Hook-up Wire Use BELDEN No. 8530 (Solid) Available in Ten Colors
8524 (Stranded) Available in Ten Colors

CHASSIS—TOP VIEW

