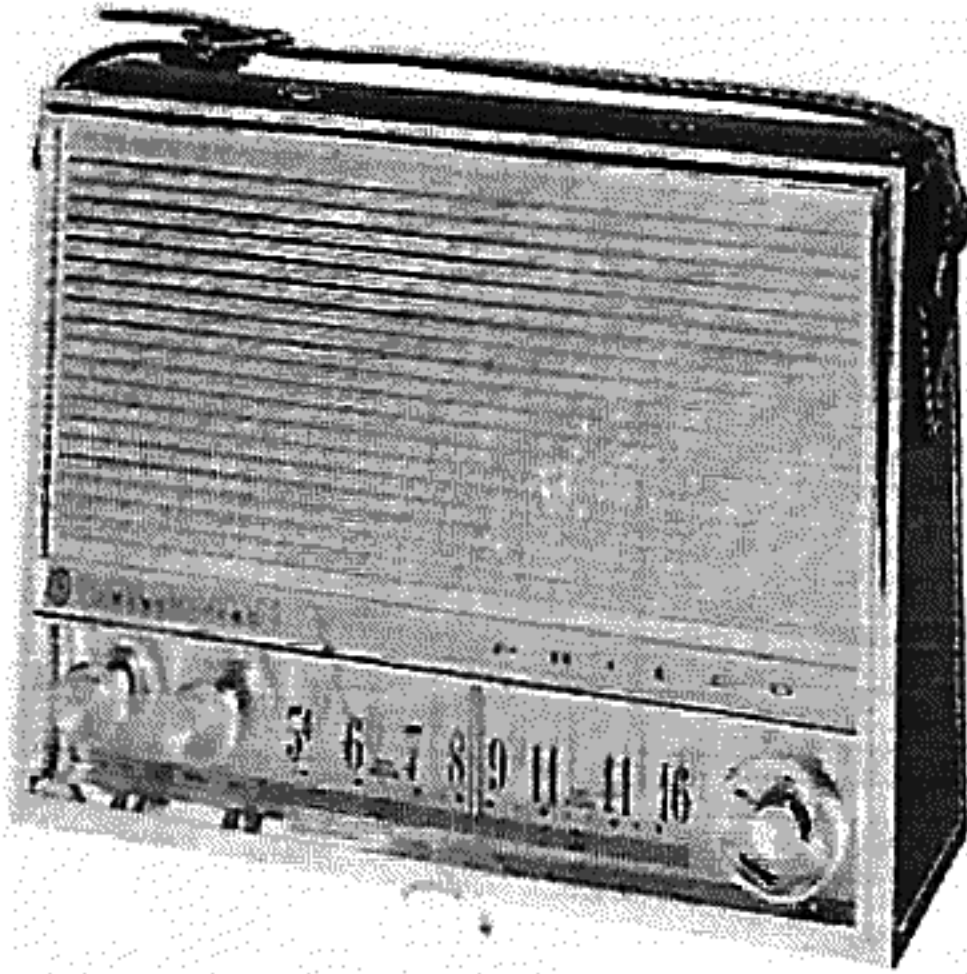




PHOTOFACT[®] with

CIRCUITRACE[®]



Met dank aan Jef Bos

TRADE NAME: Philco Models T-902BK, T-902BR
(Codes 124, 126)

SUPPLIER: Philco Corp.
Subsidiary of Ford Motor Co.
Tioga & C Streets, Philadelphia, Pa.

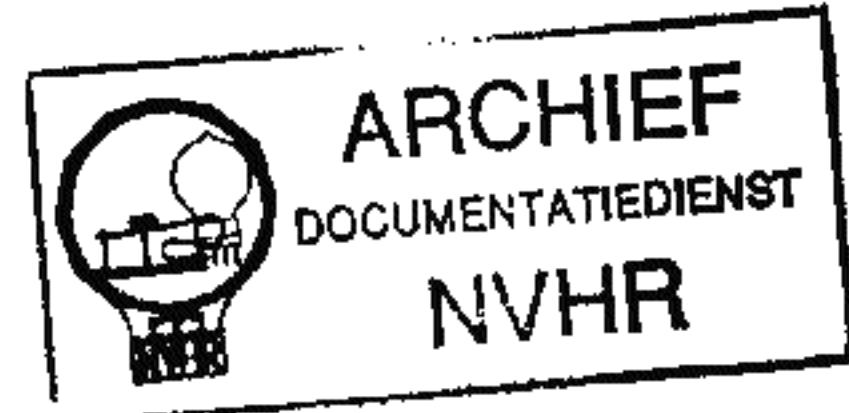
TYPE SET: 9 Transistor AM Receiver

POWER SUPPLY: 6 Volts DC

RATING: 17 MA@ 6VDC (No Signal, Min. Volume)
35 MA@ 6VDC (Signal, Normal Volume)

TUNING RANGE: BROADCAST 535 - 1620KC

Ned. Ver. v. Historie v/



ALIGNMENT INSTRUCTIONS

Check for specified source voltage.

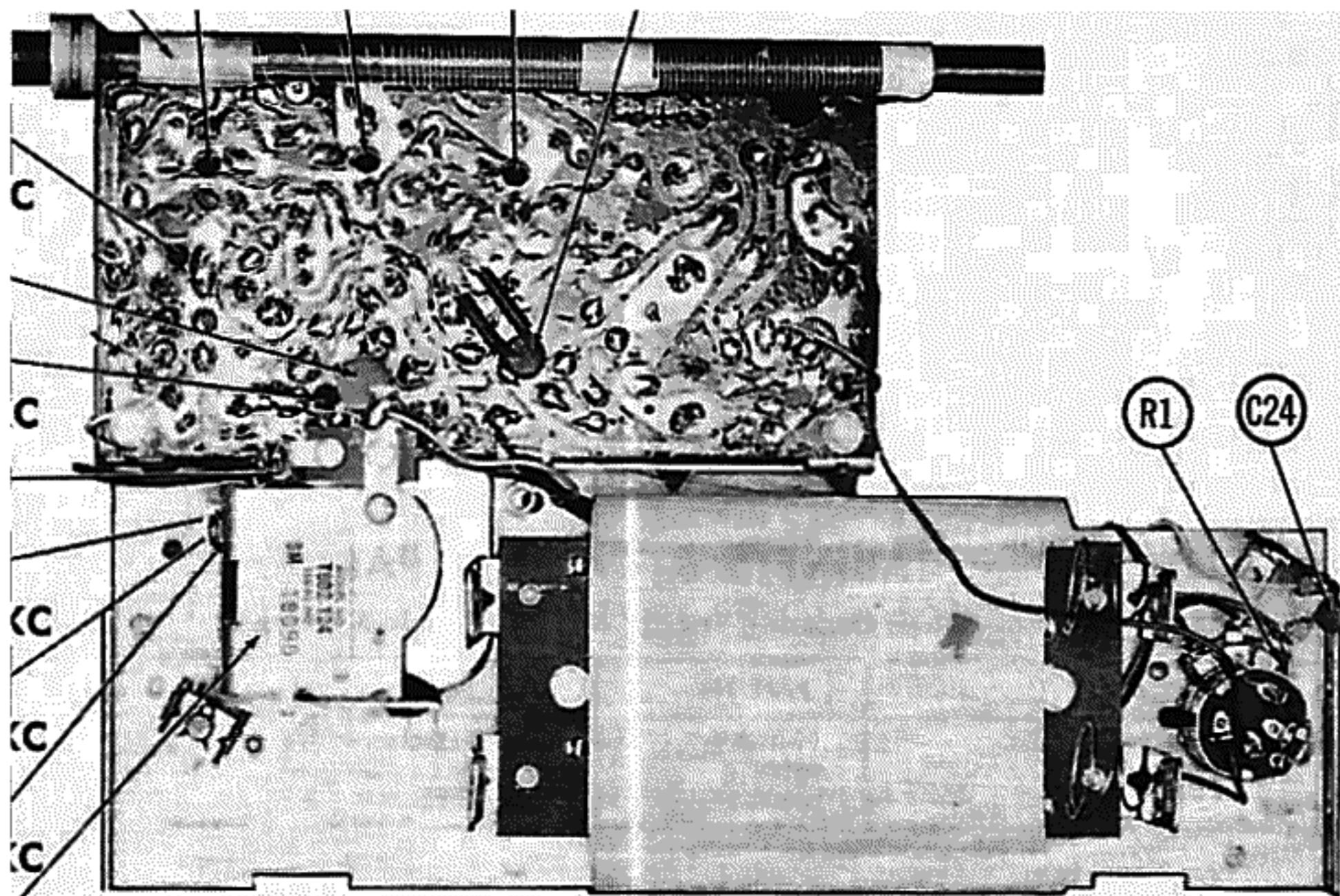
Fashion loop of several turns of wire and connect generator across loop.

Adjust output of generator to radiate only enough signal into receiver to obtain a suitable indication.

Suggested Alignment Tools:

A1, A2, A3, A6.....GENERAL CEMENT #5067, 8282, 8606.... WALSCO #2526, 2543
 A5.....GENERAL CEMENT #8282, 8606..... WALSCO #2526, 2543
 A4, A7, A8.....GENERAL CEMENT #5000, 5066, 8290.... WALSCO #2512, 2525, 2528

	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
1.	455KC (400v 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, A6	Rock tuning gang and adjust for maximum. Repeat steps 2 and 3.
4.	1400KC	"	"	A7, A8	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	T1233	RF Amplifier	DS-25	GE-1		PNP
X2	T1033	Mixer	DS-25	GE-1		PNP
X3	T1306	Oscillator	DS-25	GE-1		PNP
X4	T1233	1st IF Amplifier	DS-25	GE-1		PNP
X5	T1232	2nd IF Amplifier	DS-25	GE-1		PNP
X6	T1033	Detector-AVC	DS-25	GE-1	2N406	PNP
X7	T1001①	Driver	DS-26	GE-2	2N406	PNP
X8	T1003②	Output	DS-26	GE-2	2N408	PNP
X9	T1003②	Output	DS-26	GE-2	2N408	PNP

① Alternate Type HR7.

② Alternate Type T1007, HR2

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	PHILCO PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	GENERAL INSTRUMENT PART No.	MALLORY PART No.	SPRAGUE PART No.
C1A	400	6	30-2602-3	PRS2020			BL2121	PET2320	VLS-2165*
B	200	6							
C2	50	6	30-2588-11	PTT29	NLW50-6	MT1-15	MLV50-6	TT6X50	TE-1100
C3	10	6	30-2591-9	PTT23	NLW10-6	MT1-5	MLV10-6	TT6X10	TE-1087

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

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	2, 7 10%	#30-1221-18							
C11	.0082			DD-822		CCD-822	B-282		
C12	.0082			DD-822		CCD-822	B-282		
C13	.0082			DD-822		CCD-822	B-282		
C14	.0082			DD-822		CCD-822	B-282		
C15	.0082			DD-822		CCD-822	B-282		
C16	.0082			DD-822		CCD-822	B-282		
C17	.0082			DD-822		CCD-822	B-282		
C18	.0082			DD-822		CCD-822	B-282		
C19	.0082			DD-822		CCD-822	B-282		
C20	.0082			DD-822		CCD-822	B-282		
C21	.05 10V			TTD-05	CK-503	H5		TA-150	TG-S50
C22	.01		(.025) †	TTD-01	CK-103	H2		TA-110	TG-S10
C23	.025 50V		Note 1	TTD-025	CK-253	H4		TA-125	TG-S25
C24	.22 3V				UK20-204	HCC25224Z			HY-325

Note 1. Not used in some versions.

† Alternate Value.

Philco Part Number.

CONTROLS

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

ITEM No.	USE	RESISTANCE	REPLACEMENT DATA					
			PHILCO PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.	
R1	Volume & Switch	4000Ω	33-5588-18①	(B-11, KR-2) or (F2-5000, KR-2, SU204)			Q13 114, 76-2	(UA53A, US42, SL3500) or (RU53A, US42, SL3500, SL38) or (U-12, US27)
R2	Tone	15K	33-5572-50					

① Part #33-5588-19 used in later productions.

DESCRIPTION

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		PHILCO PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	WORKMAN PART No.	
L1	Loopstick	32-4688-12				TB505	
L2	RF	32-4793-1				T538	
L3	Osc.	32-4689-8				T538	
L4	1st IF	32-4738-1				TA614	
L5	2nd IF	32-4738-11				TA615	
L6	3rd IF	32-4738-12				TA616	
L7	Choke	32-4685-1		8136			

TRANSFORMER (DRIVER)

ITEM No.	TURNS RATIO		REPLACEMENT DATA					NOTES
	PRI.	SEC.1	PHILCO PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
		SEC.2						
T1	1.9	1	32-8946-1					
		I						

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		PHILCO PART No.	QUAM PART No.	
SP1	4" PM 10-12Ω	36-1675-20①	4A15	① Alternate Part #36-1675-13

BATTERIES

ITEM No.	VOLTAGE	PHILCO PART No.	REPLACEMENT DATA			NOTES
			BURGESS	EVEREADY	MALLORY	
M1	6		230 (or AL-2)	A100 (or E95)	M-13R (or MN1300)	4 Required

MISCELLANEOUS

ITEM No.	PART NAME	PHILCO PART No.	NOTES
M2	Tuning Cap.	31-2791-3	2 Gang

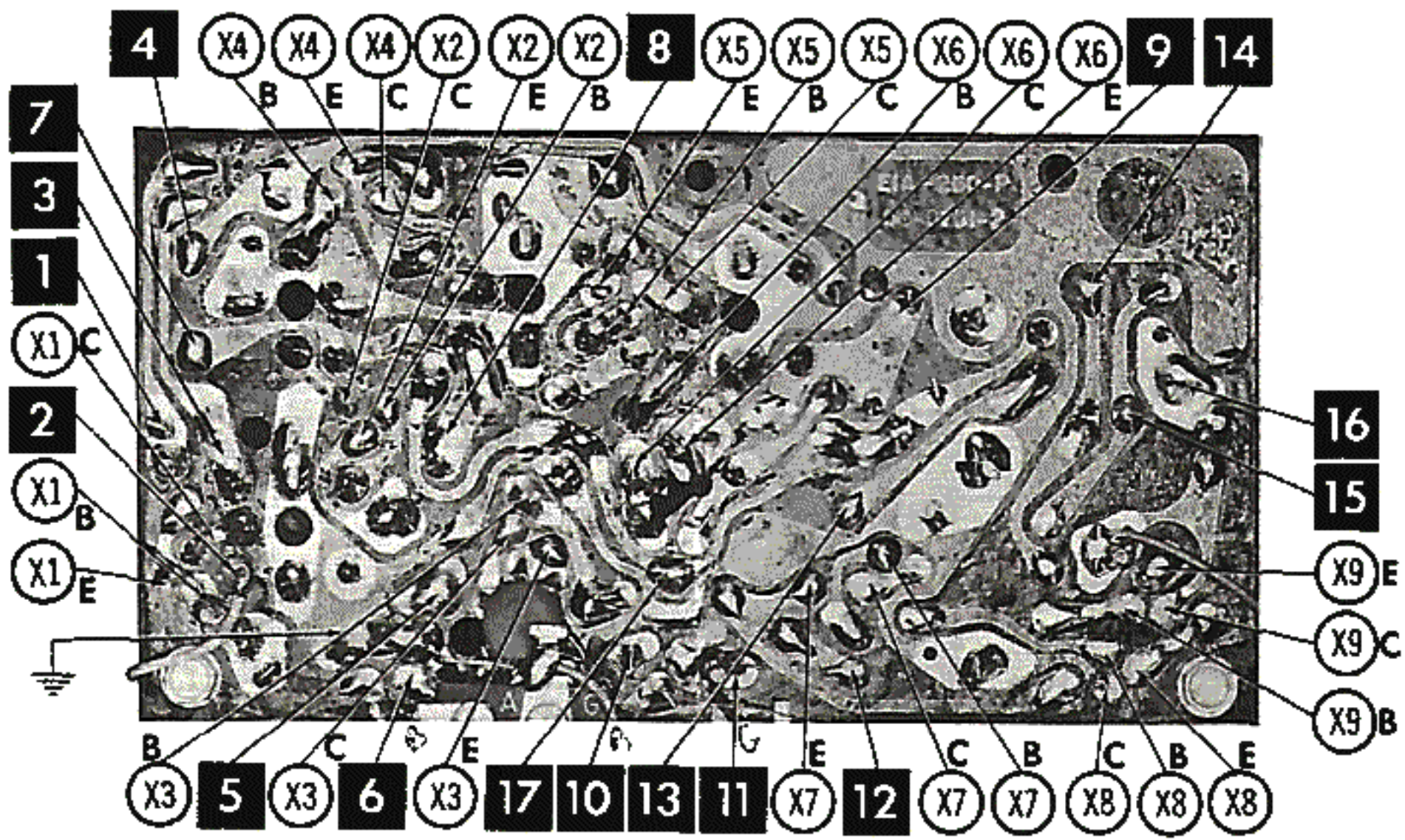
CABINETS & CABINET PARTS

(When Ordering Specify Model, Chassis & Color)

ITEM	PART No.	ITEM	PART No.
<u>MODEL T-902BR</u>		<u>MODEL T-902BK</u>	
Knob - Tuning	28-11588-10	Knob - Tuning	28-11588-1
Knob - Volume, Tone	424-8438	Knob - Volume, Tone	424-8424
Cabinet Front	27-10317-3	Cabinet Front	27-10317-1
Cabinet - Leather	51-0135-5	Cabinet - Leather	51-0135-4

WIRING DATA

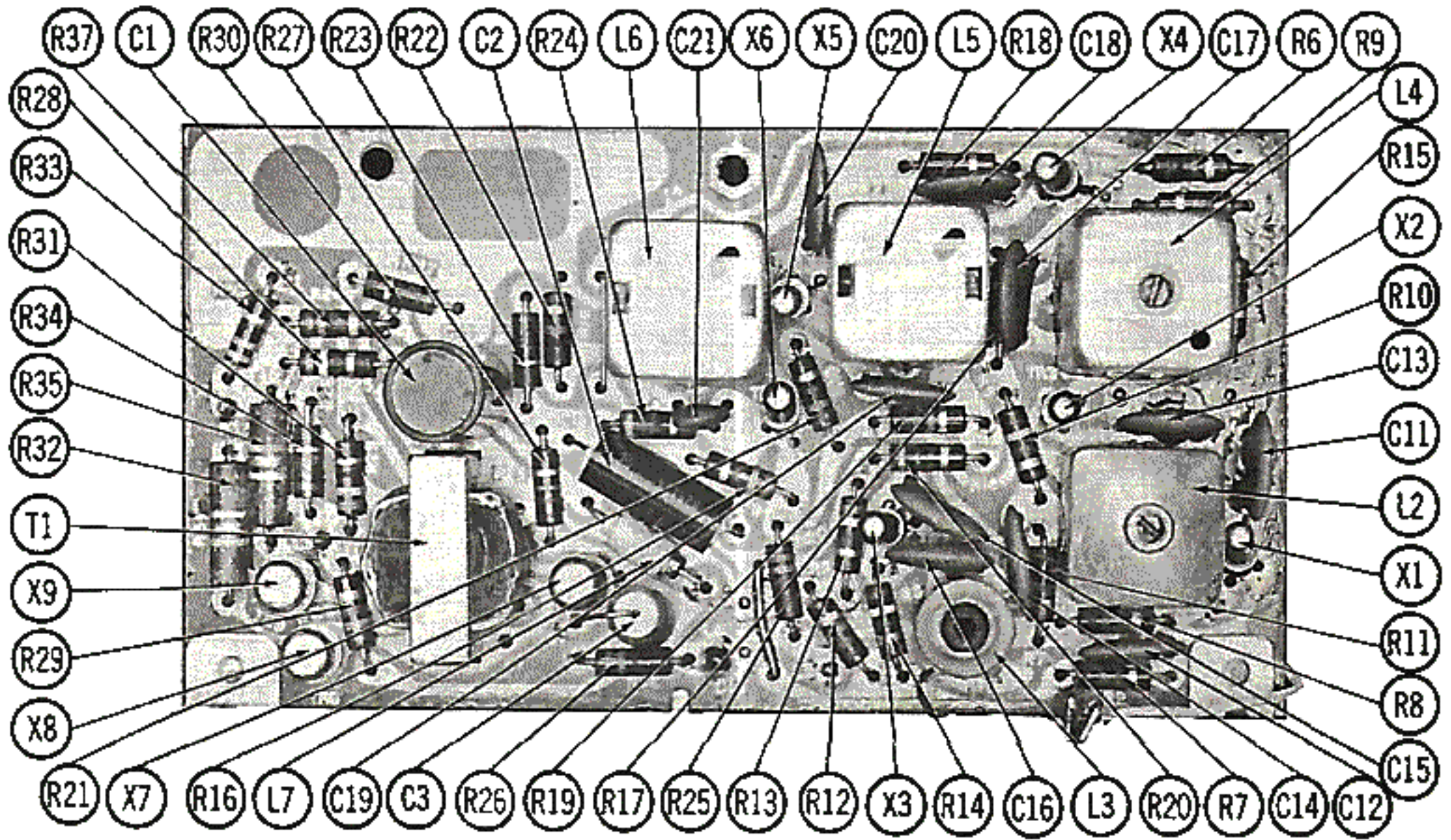
General-use Unshielded Hook-up Wire Use BELDEN No. 8530 (Solid 22AWG) Available
 8524 (Stranded 22AWG) in
 8570 (Stranded 26AWG) 12 Colors

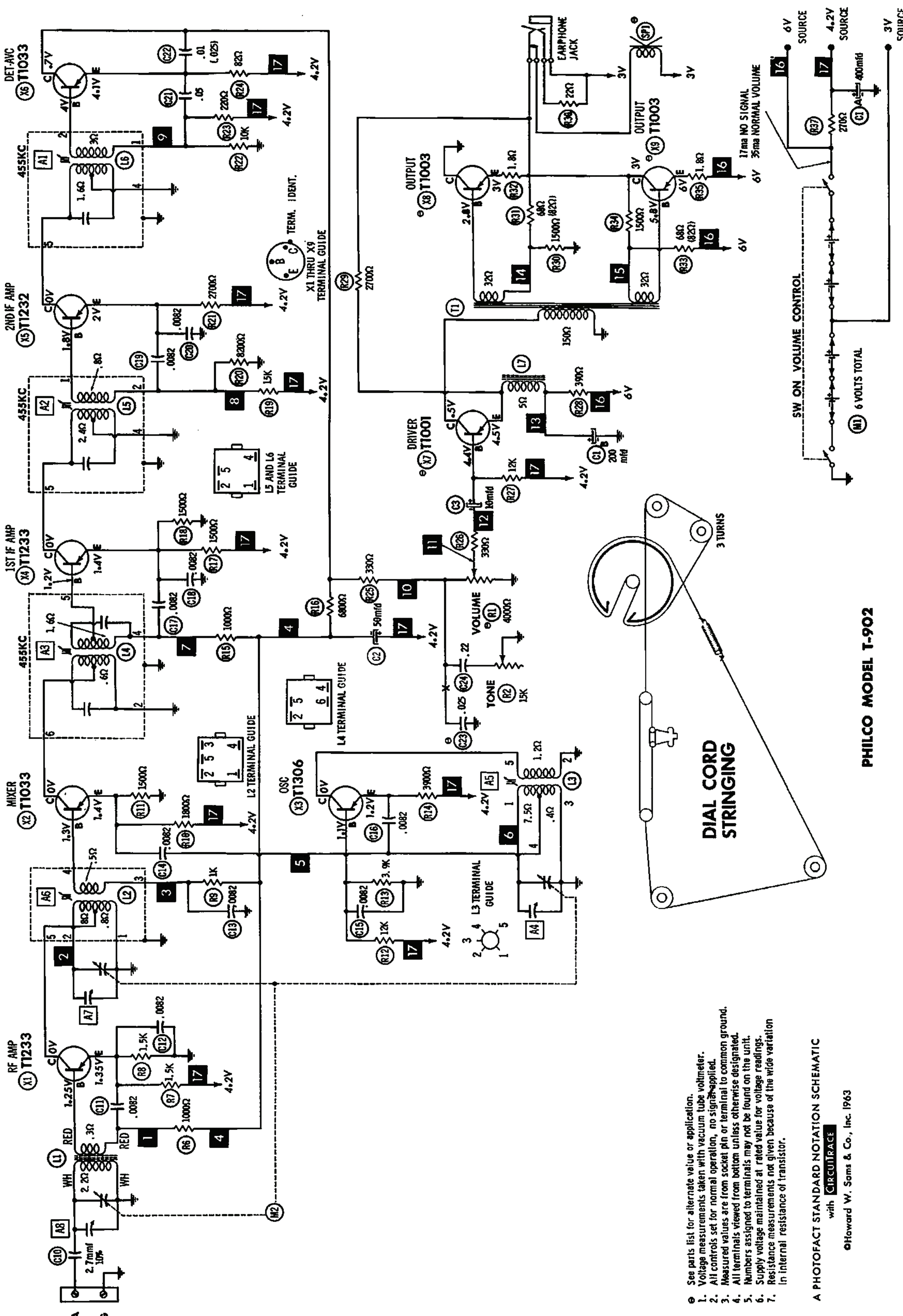


E-EMITTER B-BASE C-COLLECTOR

Edward W. Sams CIRCUITRACE Photo

PRINTED BOARD





- See parts list for alternate value or application.
- 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 PHOTOFAC STANDARD NOTATION SCHEMATIC
with CIRCUITRACE

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PHILCO MODEL T-902