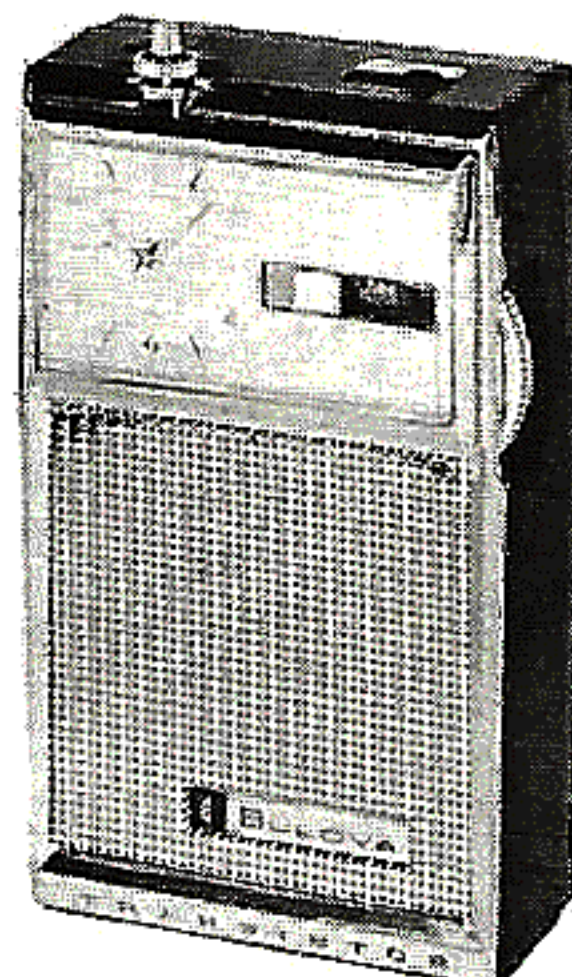




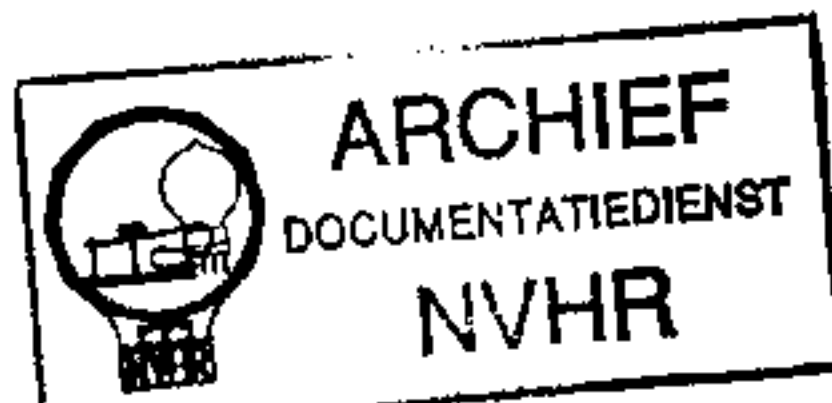
# PHOTOFACT<sup>®</sup> with

# CIRCUITRACE<sup>®</sup>

Met dank aan Jef Bos



Ned. Ver. v. Historie v/d Radio



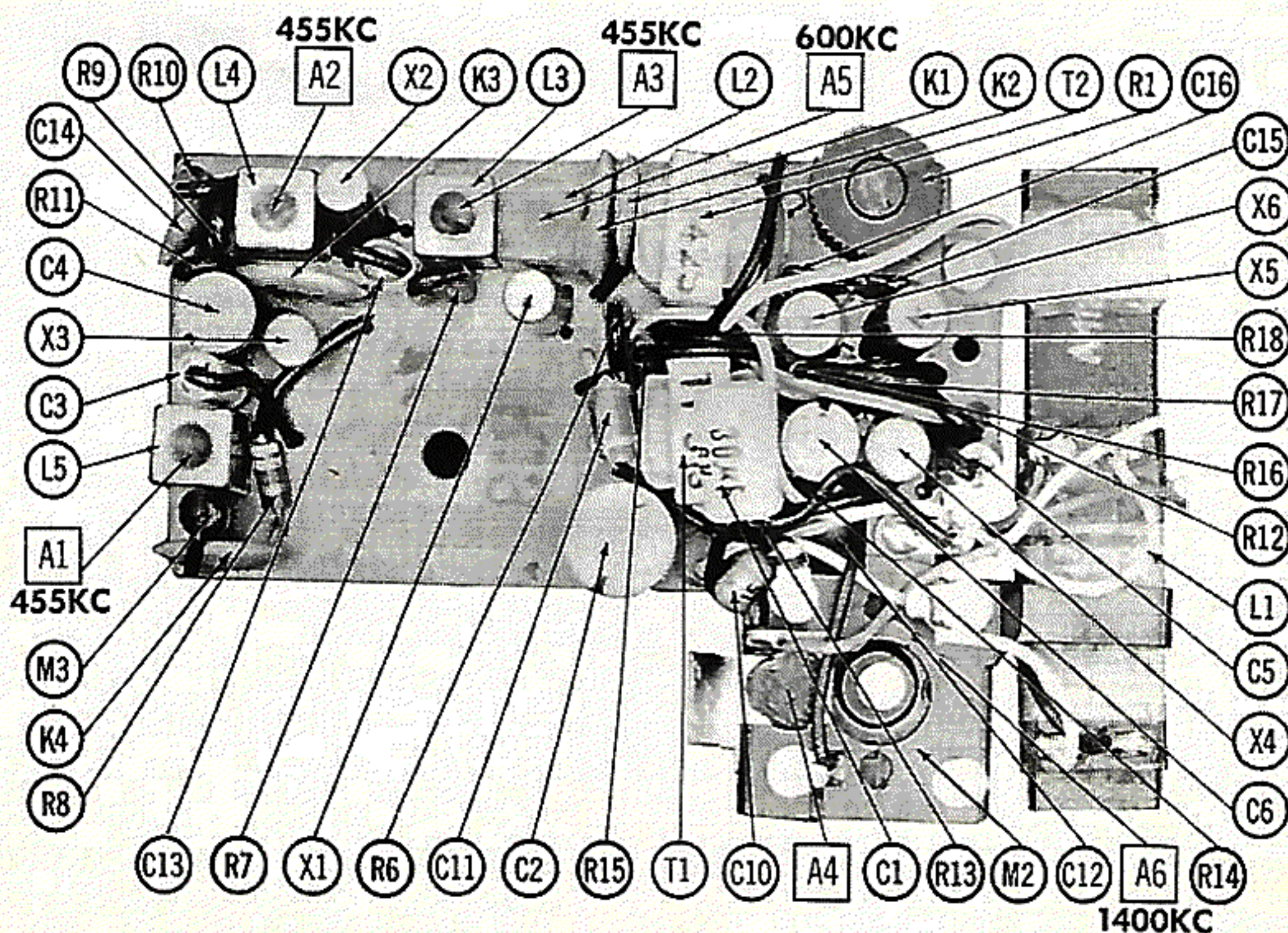
TRADE NAME: **Radio Models 832, 833, 836**  
 SUPPLIER: **Radio Shack Co., Inc.**  
**Radio Shack, Flushing 70, N. Y.**  
 TYPE SET: **1 Transistor AM Receiver with Watch**  
 POWER SUPPLY: **1.5 Volt DC**  
 RATING: **0.1 A 1.5 VDC (No Signal, Min. Volume)**  
**0.1 A 1.5 VDC (Signal, Normal Volume)**  
 TUNING RANGE: **BROADCAST 535 - 1600KC**

## 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
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	2SA103	Converter	DS-25			PNP
X2	2SA103	1st IF Amplifier	DS-25			PNP
X3	2SA102	2nd IF Amplifier	DS-25			PNP
X4	2SB175	Driver				PNP
X5	2SB172	Output			2N408	PNP
X6	2SB172	Output			2N408	PNP

## ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	BULOVA PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	GENERAL INSTRUMENT PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	30	6	99-10						
C2	80	6	99-11						
C3	10	3	99-8	CRE207	NLW10-3				TE-1053
C4	.5	10	99-9	CRE400A	NLW1-50	MT1-1			TE-1120
C5	30	6	99-10						
C6	30	6	99-10						

## 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	1.5 +.5mmf	#99-20	NPO-SI 1.5	TCZ-1R5	C10V15C		CNO-515	10TCC-V15	
C11	220 5%				CPR-220J				
C12	3 +.5mmf	#99-21	NPO-SI 3.0	TCZ-3R3	C10V3C	CCTO-3R3	CNO-533	10TCC-V33	
C13	3 +.5mmf			NPO-SI 3.0	TCZ-3R3	C10V3C	CCTO-3R3	CNO-533	10TCC-V33
C14	.05			TTD-05	CK-503	H5		TA-150	TG-S50
C15	.0015 10%	#99-21							
C16	.0015 10%	#99-21							

# Bulova Part Number.

## CONTROLS

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

ITEM No.	USE	RESISTANCE	REPLACEMENT DATA				
			BULOVA PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1	Volume	2000Ω	99-7				

## COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	BULOVA PART No.	REPLACEMENT DATA
K1	Converter Emitter Bias	.01mfd, 1800Ω	99-12	
K2	Converter Base Bias	.02mfd, 6800Ω	99-13	
K3	IF Emitter Bias	.025mfd, 820Ω	99-14	
K4	I-Mode RF Filter	.01mfd, .01mfd, 470Ω	99-15	

# DESCRIPTION

## COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		BULOVA PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	WORKMAN PART No.	
L1	Loopstick	99-4					
L2	Osc.	99-29					
L3	1st IF	99-30	BC-569	2081	RTC-9262		
L4	2nd IF	99-31	BC-570	2082	RTC-9263		
L5	3rd IF	99-32	BC-571	2083	RTC-9264		

## TRANSFORMER (DRIVER)

ITEM No.	TURNS RATIO		REPLACEMENT DATA					NOTES
			BULOVA PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
	PRI.	SEC.						
T1	1	1.4	99-2					

## TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
			BULOVA PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
	PRI.	SEC.						
T2	200Ω CT	6-8Ω	99-3					

## SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		BULOVA PART No.	QUAM PART No.	
SP1	2" PM 6-8Ω	99-1		

## BATTERIES

ITEM No.	VOLTAGE	BULOVA PART No.	REPLACEMENT DATA			NOTES
			BURGESS	EVEREADY	MALLORY	
M1	4.2V		H133	E193N	TR-133 (or TR-133P, MN1306)	

## MISCELLANEOUS

ITEM No.	PART NAME	BULOVA PART No.	NOTES
M2	Tuning Amp.	99-33	
M3	Detector (OA70)	99-28	

## CABINETS & CABINET PARTS

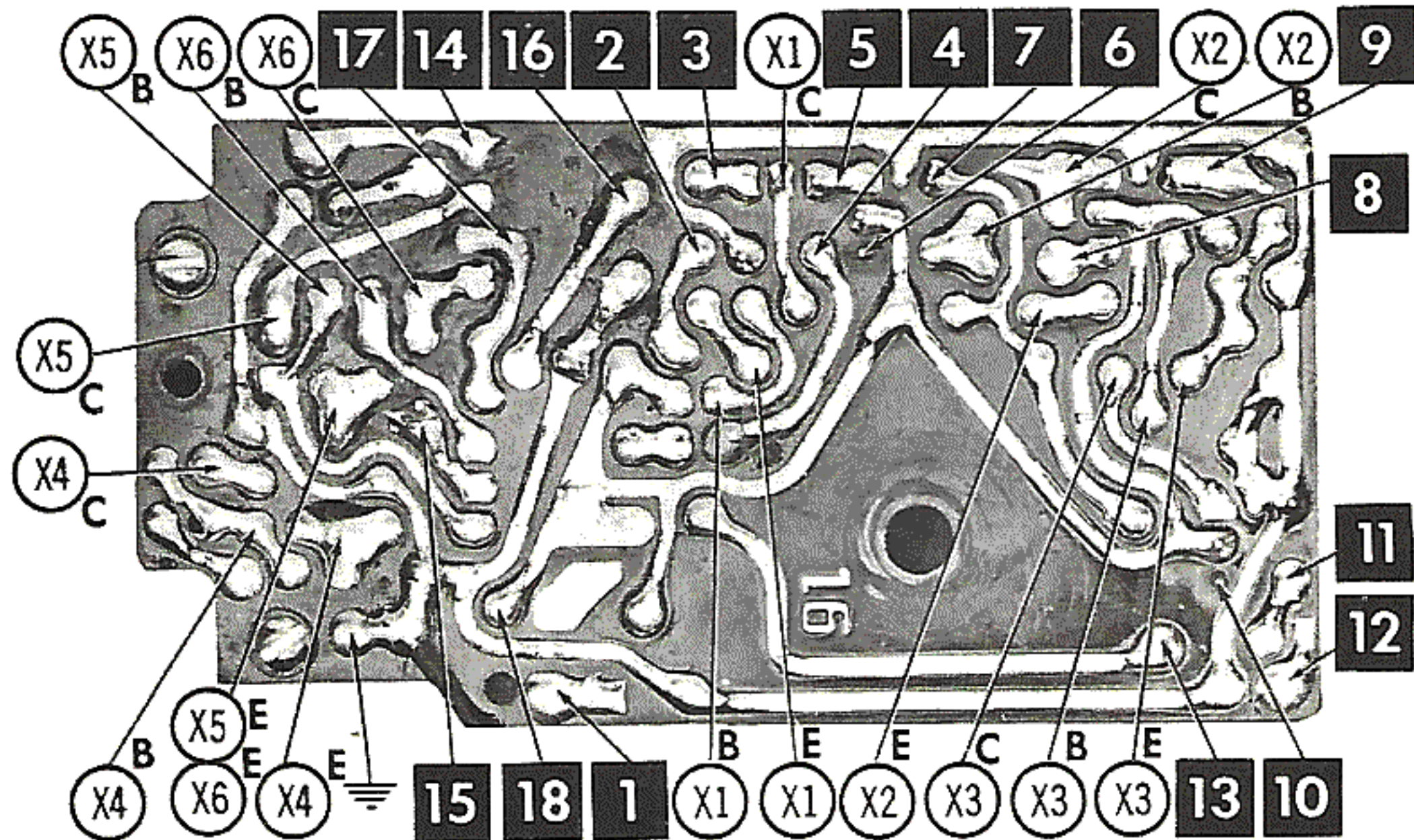
(When Ordering Specify Model, Chassis & Color)

ITEM	PART No.	ITEM	PART No.
Knob - Tuning	99-48	Clock - Complete	RT-61
Cabinet - Complete	99-23		

## WIRING DATA

General-use Unshielded Hook-up Wire ..... Use BELDEN No. 8530 (Solid 22AWG) Available  
 8534 (Stranded 22AWG) In  
 8570 (Stranded 26AWG) 12 Colors





E-EMITTER B-BASE C-COLLECTOR