

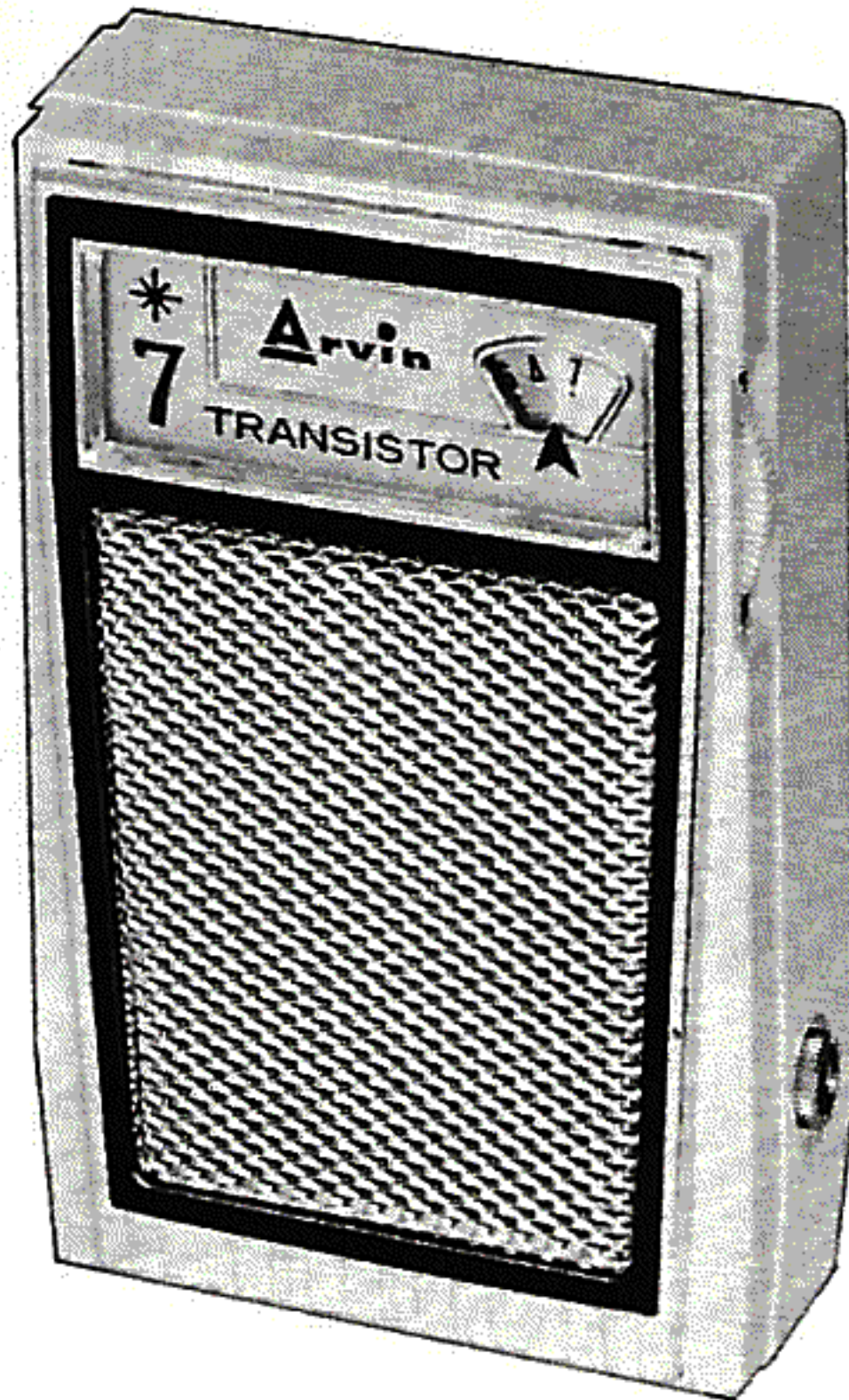
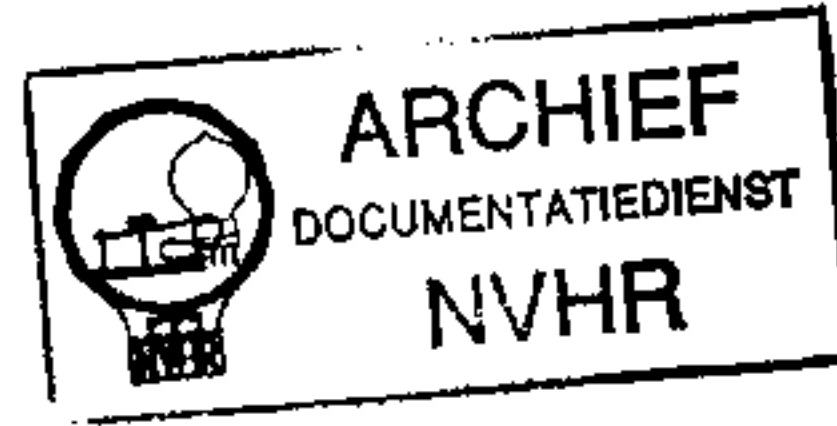
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with CIRCUITRACE<sup>®</sup>

ARVIN MODELS 61R35,  
61R39 (Ch. 1.61601)



Ned. Ver. v. Historie v/d Radio



Met dank aan Jef Bos

### MODEL 61R35

TRADE NAME	Arvin Models 61R35, 61R39 (CH. 1.61601)		
MANUFACTURER	Arvin Industries, Inc., Columbus, Indiana		
TYPE SET	Battery Operated Transistorized Portable AM Receiver		
POWER SUPPLY	9 Volts DC	RATING	7MA @ 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, 8278, 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 stator Low side of tuning gang. Low side to chassis.	455KC (400% Mod.)	Tuning gang fully open.	Across voice coil.	A1, A2, A3	Adjust for maximum output.
Fasten 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

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# PARTS LIST AND DESCRIPTIONS

## WIRING DATA

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Item No. 101-101-11

Model No. 101-101-11  
 Model No. 101-101-11

### TRANSISTORS

ITEM No.	CONNECTION TYPE	USE	REPLACEMENT DATA		
			RCA PART No.	SARKES TARZIAN PART No.	GENERAL ELECTRIC PART No.
X1	2N212	Converter		2N1366	NPN
X2	2N94	1st IF Amplifier	2N410	2N1367	NPN
X3	2N233A	2nd IF Amplifier		2N1367	NPN
X4	2N1101	AF Amplifier	2N040		NPN
X5	2N1101	Driver	2N040		NPN
X6	2N1059	Output	2N040		NPN
X7	2N1059	Output	2N040		NPN

### POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	CURRENT RATING (Measured)	ORIGINAL Part or Type No.	RECTIFIERS		DIODES		NOTES
			RCA PART No.	SARKES TARZIAN PART No.	GENERAL ELECTRIC PART No.	RAYTHEON PART No.	
X8		48287				1N60	Detector (1N295)

### ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	ARVIN PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.
C1	10	10	49385-2	BCD10010	ECPB408	MT1-5	PET1340	MLV10-10	TE-1114
C2	10	10	49385-2	BCD10010	ECPB408	MT1-5	PET1340	MLV10-10	TE-1114
C3	10	10	49385-2	BCD10010	ECPB408	MT1-5	PET1340	MLV10-10	TE-1114
C4	30	10	49385-3	BCD10025	ECPB412	MT1-16	TT15X30	MLV35-15	TE-1158
C5	50	10	49385-4		NLW50-10	MT1-16	TT10X50	MLV50-10	TE-1119
C6	50	10	49385-4		NLW50-10	MT1-16	TT10X50	MLV50-10	TE-1119

### 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.
C7	.05 25V			DA-503	H-05S5		TA-150	TG-S50
C8	.0047 50V			DDM-503	H-05D5	CCD-472	TA-250	TG-D50
C9	3 NPO 10%		NPO-DI 3.0	DTZ-3R3	C10V3C	CCTO-3R3	CNO-533	10TCC-V33
C10	.02 25V			DA-203	H-05S2		TA-120	TG-S20
C11	.02 25V			DA-203	H-05S2		TA-120	TG-S20
C12	24 NPO 10%		NPO-DI 25	DTZ-25	C10Q24C	CCTO-240	CNO-425	10TCC-Q25
C13	.05 25V			DA-503	H-05S5		TA-150	TG-S50
C14	.02 25V			DA-203	H-05S2		TA-120	TG-S20
C15	.005 25V			DDM-502	H-05D5		TA-250	TG-D50
C16	.0033 50V		BPD-0033	DD-332	BYA10D33	CCD-332	GP233	5HK-D33

### COILS (RF-IF)

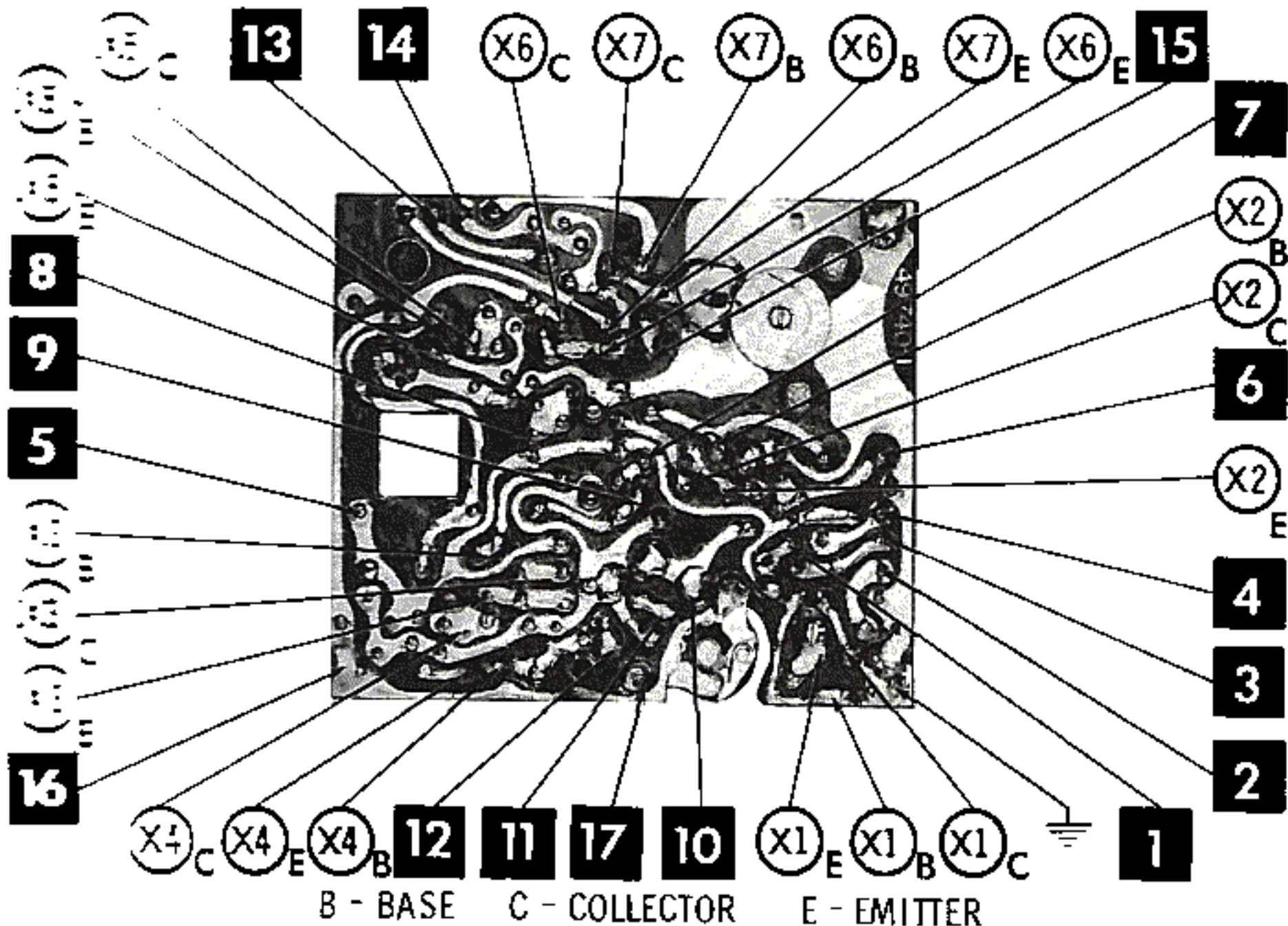
ITEM No.	USE	REPLACEMENT DATA					NOTES
		ARVIN PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	Workman TV PART No.	
L1	Loopstick	44511-13					
L2	Osc.	49382-3					
L3	1st IF	49388-10					
L4	2nd IF	49388-20					
L5	3rd IF	49388-30					

### CONTROLS

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

ITEM No.	USE	RESISTANCE	REPLACEMENT DATA				
			ARVIN PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1	Volume & Switch	2000Ω	49379-1				

**PRINTED BOARD**



# PARTS LIST AND DESCRIPTIONS (Continued)

## RESISTORS

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

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN TV PART No.	REMARKS			IRC PART No.	WORKMAN TV PART No.	REMARKS
R2	27K				R14	100Ω			
R3	3900Ω				R15	3300Ω			
R4	3300Ω				R16	100K			
R5	82K				R17	4700Ω			
R6	4700Ω				R18	100Ω			
R7	470Ω				R19	2700Ω			
R8	47K				R20	100Ω			
R9	4700Ω				R21	2700Ω			
R10	470Ω				R22	100Ω			
R11	1000Ω				R23	22K			
R12	56K				R24	100Ω			
R13	4700Ω								

## 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	1	45804-8					
		SEC. 2						
		1						

## SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
	SIZE	FIELD	V. C. IMP.	ARVIN PART No.	QUAM PART No.	
HPI	2 1/4"	PM	90-110Ω	49508-1		

## BATTERIES

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

## MISCELLANEOUS

ITEM No.	PART NAME	ARVIN PART No.	NOTES
M2	Tuning Cap.	49494-3	2 Gang

## CABINETS & CABINET PARTS

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

NAME	PART NO.	DESCRIPTION
Dial Crystal	48354-3	Tuning
Knob Insert	48315	
Hub Insert	49347-3	Blue
Knob, Tuning	48316-95	
Knob, Tuning	48316-29	Black
Knob, Volume	49472-95	Blue
Knob, Volume	49472-29	Black
Cabinet-Back	49720-95	Blue
Cabinet-Front	49721-95	Blue
Cabinet-Back	49720-29	Black
Cabinet-Front	49721-29	Black

**CHASSIS—TOP VIEW**

