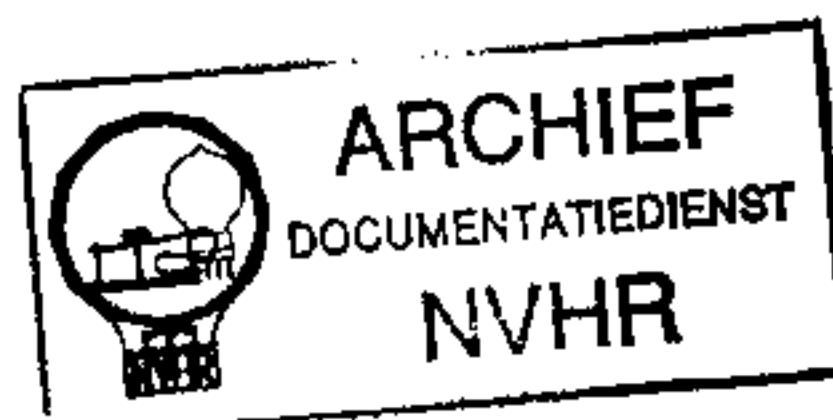


Met dank aan Jef Bos



Ned. Ver. v. Historie v/d

TRADE NAME	Truetone Model DC3084A		
SUPPLIER	Western Auto Supply Co., 2107 Grand Ave., Kansas City 8, Mo.		
TYPE SET	Battery Operated Transistorized Portable AM Receiver.		
POWER SUPPLY	9 Volts DC		
TUNING RANGE—BROADCAST	540 - 1650KC	RATING	16MA@9 Volts DC



ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Volume 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,	GENERAL CEMENT #5097, 8727 WALSCO #2515
A4, A6,	GENERAL CEMENT #5004, 5009, 8195, 8274, 8275, 8607, 8728, 8987, 8988, 8989, 9291 WALSCO #2515, 2520, 2522, 2523, 2531, 2532, 2534, 2537, 2538
A5,	GENERAL CEMENT #8282, 8606, 8606-L, 9295, 9440 WALSCO #2526, 2543, 2544, 2545

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
1.	High side thru .05mfd to base of Converter. Low side of chassis.	455KC (400% Mod.)	Tuning gang fully open.	Across voice coil.	A1, A2, A3	Adjust for maximum output.
2.	Loop	1650KC	"	"	A4	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.
3.	"	540KC	Tuning gang fully closed.	"	A5	"
4.	"	1400KC	1400KC	"	A6	"
5.	"	600KC	Tune to 600KC Signal.	"		Retouch A5 for maximum output while rocking tuning gang.

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 guaranty 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 JF791

the particular type of replacement part listed. Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. © 1960 Howard W. Sams & Co., Inc., Indianapolis 6, Indiana. Printed in U.S. of America

PARTS LIST AND DESCRIPTIONS

TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA				NOTES
			CBS PART No.	RCA PART No.	RAYTHEON PART No.	SYLVANIA PART No.	
X1	2N485	Converter Overload & AVC IF Amplifier Detector Driver Output		2N412	2N485	2N374	PNP
X2	CK879			2N410	CK879	2N406	PNP
X3	2N483			2N410	2N483	2N139	PNP
X4	CK879			2N410	CK879	2N406	PNP
X5	2N482			2N410	2N482	2N410	PNP
X6	2N631*			2N408	2N631	2N408	PNP

* Type 2N632 may be used in this application.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						NOTES
	CAP.	VOLT.	TRUETONE PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.	
C1	25	10	150-133	KPP10025	EC25-10	TT10X25	ML30-15	TE-1118	
C2	50	10	150-134	KPP10050	EC50-10	TT10X50	ML50-15	TE-1119	
C3	10	10		KPP10010	EC10-10	TT12X10	ML10-15	TE-1114	①
C4	25	10	150-133	KPP10025	EC25-10	TT10X25	ML30-15	TE-1118	
C5	80	10		PWE10100	EC100-10	TT15X100	ML100-15	TE-1119.3	②
C6	80	10		PWE10100	EC100-10	TT15X100	ML100-15	TE-1119.3	②

① Some versions may use 12mfd Part #150-132.

② Some versions may use 100mfd Part #150-148.

FIXED CAPACITORS

Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic 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	20000		BPD-02	DD-203	BYB6S2	CCD-203	GP120	5HK-S20
C8	10000		BPD-01	DD-103	BYA10S1	CCD-103	GP110	5HK-S10
C9	50000		BPD-05	DD-503	H-05S5	IDP-2-503	GP150	5HK-S50
C10	4.7 NPO ± .25mmf		NPO-DI 4.7	DTZ-4R7	C10V47C	CCTO-4R7	CN7-547	10TCC-V47
C11	20000		BPD-02	DD-203	BYB6S2	CCD-203	GP120	5HK-S20
C12	20000		BPD-02	DD-203	BYB6S2	CCD-203	GP120	5HK-S20
C13	20000		BPD-02	DD-203	BYB6S2	CCD-203	GP120	5HK-S20
C14	3.5 NPO ± .25mmf		NPO-DI 3.3	DTZ-3R3	C10V33C	CCTO-3R3	CNO-533	10TCC-V33
C15	20000		BPD-02	DD-203	BYB6S2	CCD-203	GP120	5HK-S20
C16	20000		BPD-02	DD-203	BYB6S2	CCD-203	GP120	5HK-S20
C17	50000		BPD-05	DD-503	H-05S5	IDP-2-503	GP150	5HK-S50

CONTROLS

ITEM No.	RATING		REPLACEMENT DATA					INSTALLATION NOTES
	RESISTANCE	WATTS	TRUETONE PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.	
RIA	10K	1/2	120-134 ①	B-15	A47-10K-Z	Q13-116	U18	Volume
B	Shaft			Not Req.	FS-3	Not Req.	Not Req.	Power Off-On
C	Switch			KR-1	SWE-12	76-1	US-26	

① Some versions may use 5000Ω (Part #120-164).

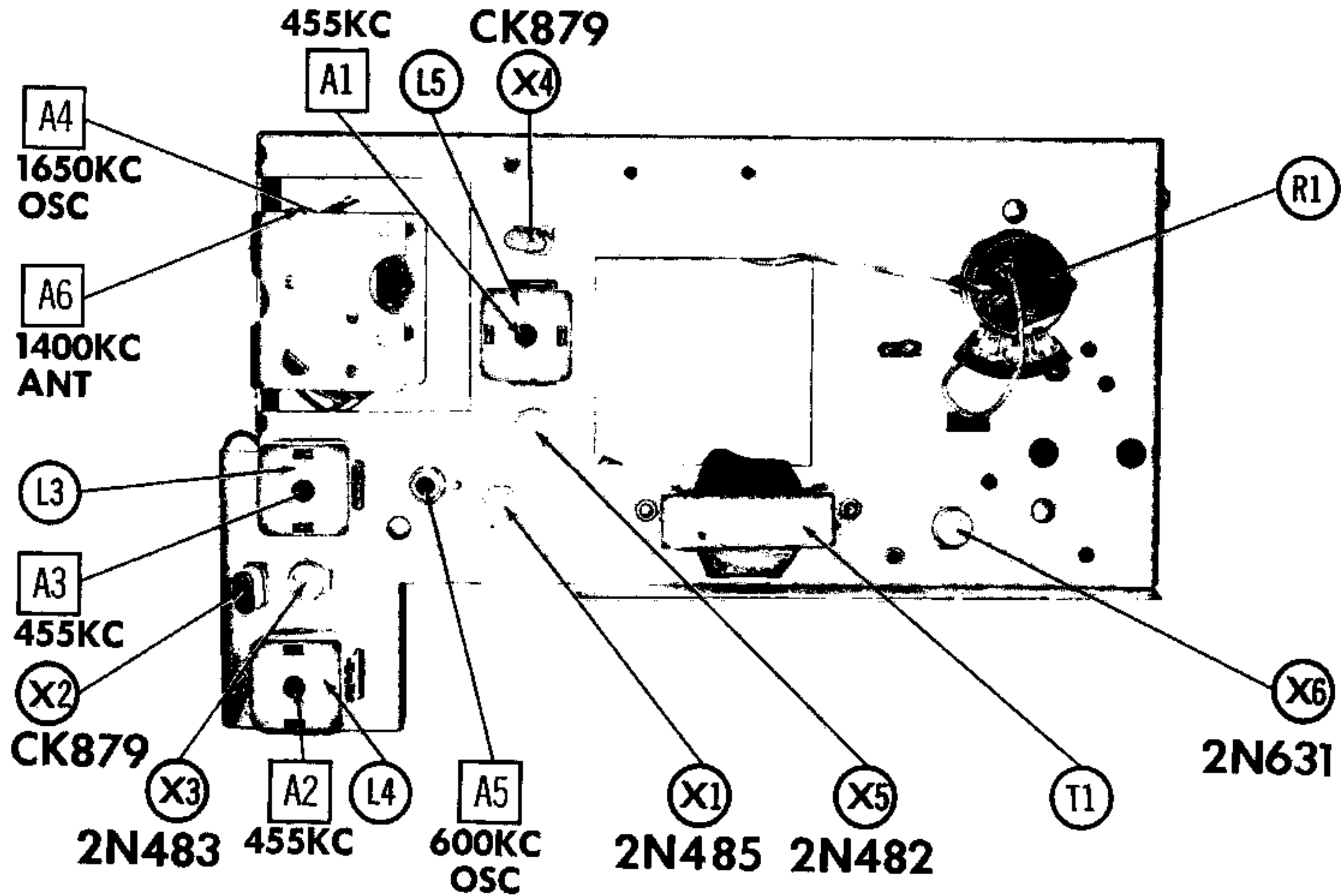
RESISTORS

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

ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS
R2	2200Ω		R8	220Ω		R14	470Ω	
R3	33K		R9	1500Ω		R15	1500Ω	
R4	1000Ω		R10	12K		R16	10K	
R5	1000Ω		R11	220Ω	(470Ω) *	R17	68Ω	
R6	180K	(120K) *	R12	1500Ω				
R7	10K		R13	2200Ω				

* Alternate Value.

CHASSIS—TOP VIEW



PARTS LIST AND DESCRIPTIONS (Continued)

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		TRUETONE PART No.	Gramer PART No.	Moissner PART No.	Merit PART No.	Miller PART No.	
L1	Loopstick	132-134			BC-419		
L2	Osc. Coll	136-140					
L3	1st IF Trans.	130-130					
L4	2nd IF Trans.	130-140					
L5	3rd IF Trans.	130-141					

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE	TRUETONE PART No.	Hofelson PART No.	REPLACEMENT DATA					NOTES
				Merit PART No.	Ram PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
M1	8Ω	130-127							

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		TRUETONE PART No.	QUAM PART No.	
M1	4" PM	3-4Ω	175-112	4A07

BATTERIES

ITEM No.	VOLTAGE	TRUETONE PART No.	REPLACEMENT DATA						NOTES
			BURGESS		EVEREADY		MALLORY		
			"A"	"B"	"A"	"B"	"A"	"B"	
M1	1.5V	3B6731 *		1*		835 *		M-14R*	* 6 Required

MISCELLANEOUS

ITEM No.	PART NAME	TRUETONE PART No.	NOTES
M2	Tuning Cap. Earphone	180-129A 3DW5300	2 Gang (Ant. 23-270mmf, Osc. 23-126mmf)

CABINETS & CABINET PARTS

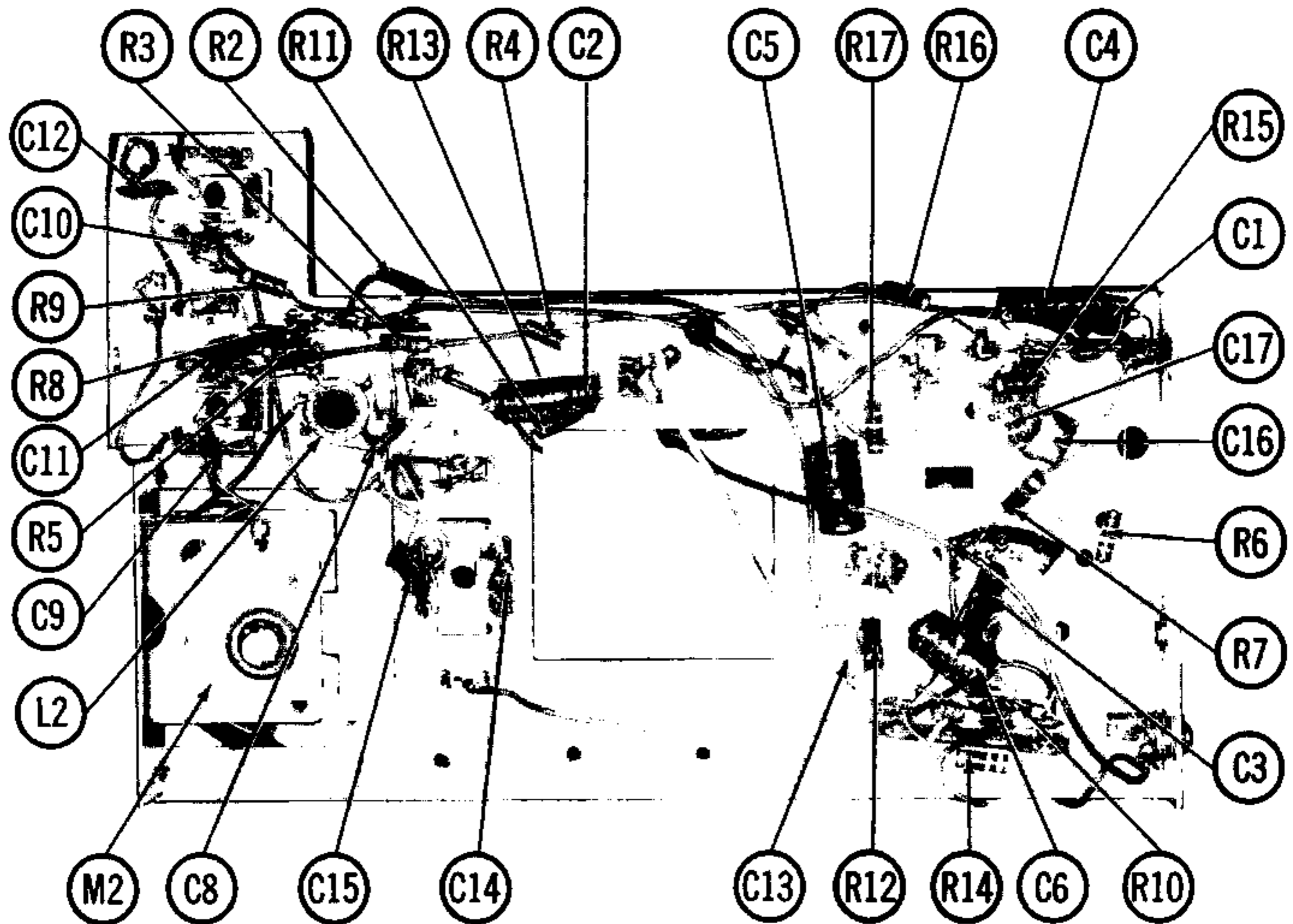
(When Ordering Cabinets & Cabinet Parts, Specify Model, Chassis & Color)

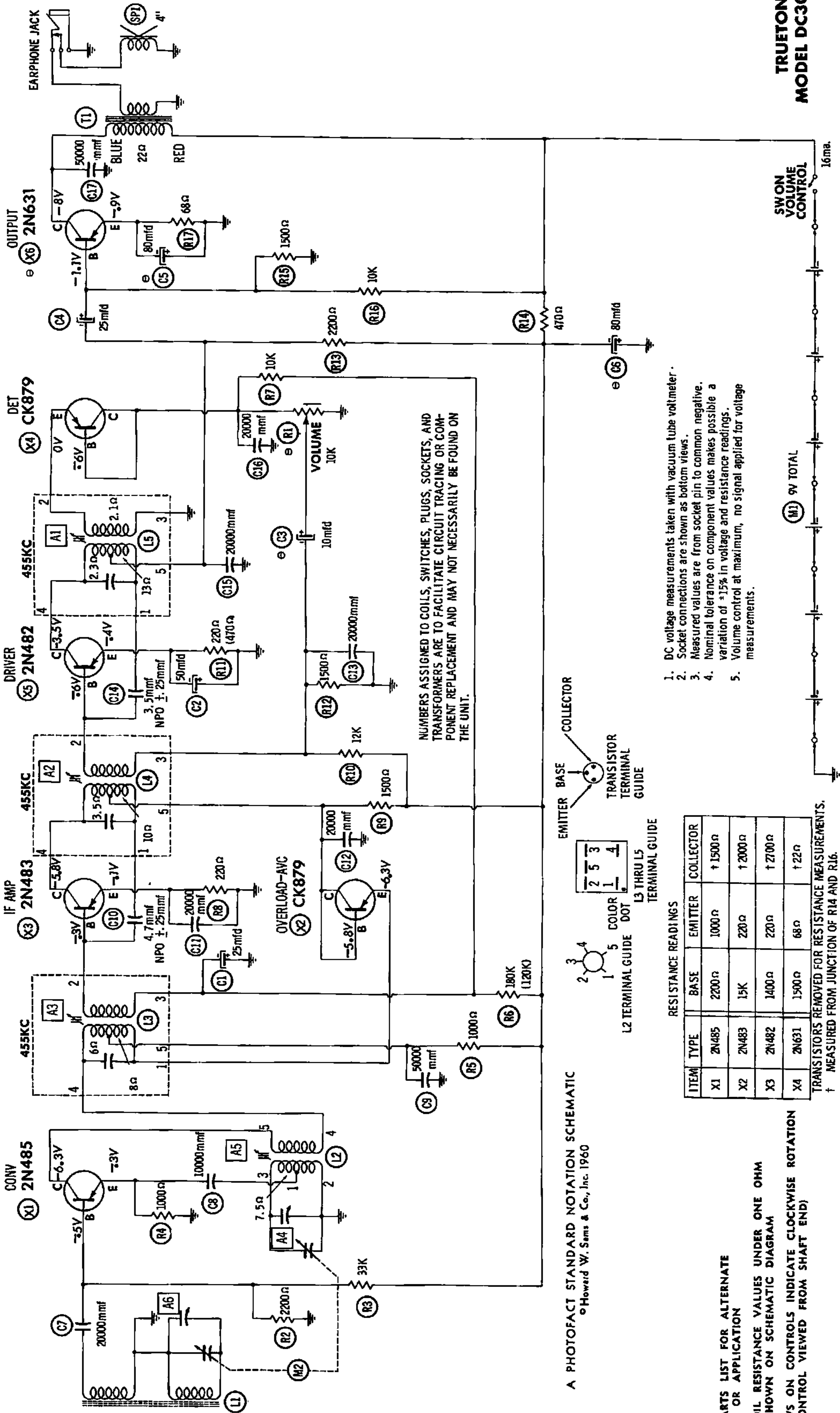
NAME	PART NO.	DESCRIPTION
Knob	220-152B	Tuning Volume
Knob	220-155A	
Cabinet	210-173	

WIRING DATA

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

CHASSIS—BOTTOM VIEW





A PHOTOFACT STANDARD NOTATION SCHEMATIC
 © Howard W. Sams & Co., Inc. 1960

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

RESISTANCE READINGS

ITEM	TYPE	BASE	EMITTER	COLLECTOR
X1	2N485	2200Ω	1000Ω	† 1500Ω
X2	2N483	15K	220Ω	† 2000Ω
X3	2N482	1400Ω	220Ω	† 2700Ω
X4	2N631	1500Ω	68Ω	† 22Ω

TRANSISTORS REMOVED FOR RESISTANCE MEASUREMENTS.
 † MEASURED FROM JUNCTION OF R14 AND R16.

SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION
 DC COIL RESISTANCE VALUES UNDER ONE OHM NOT SHOWN ON SCHEMATIC DIAGRAM
 ARROWS ON CONTROLS INDICATE CLOCKWISE ROTATION (CONTROL VIEWED FROM SHAFT END)