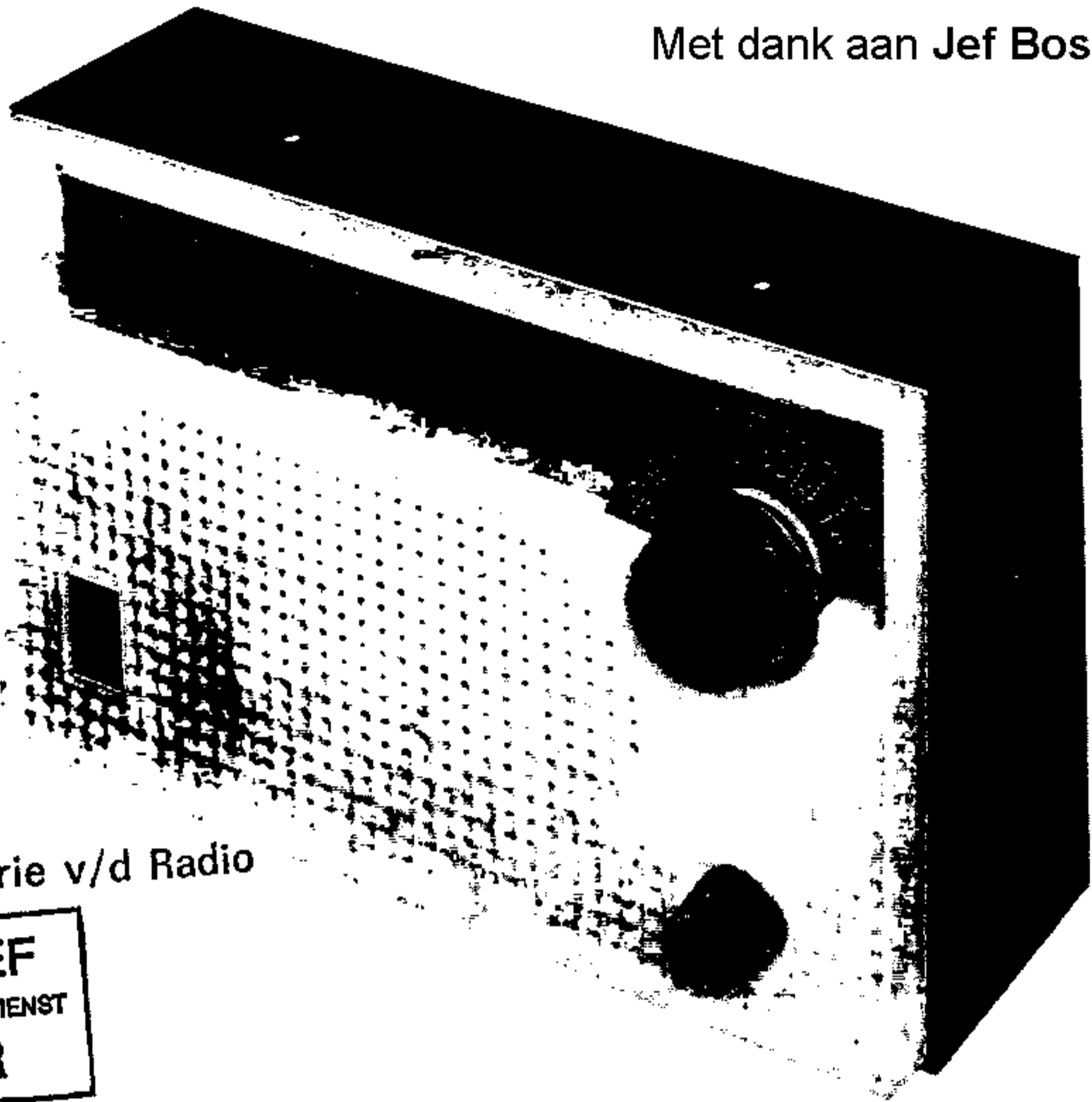
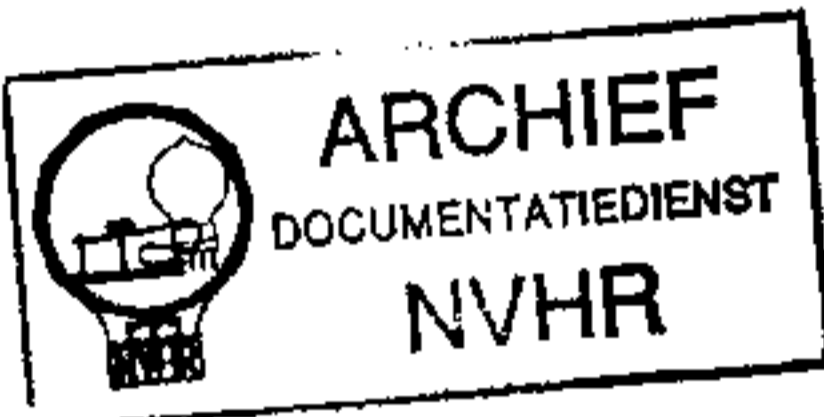


Met dank aan Jef Bos



Ned. Ver. v. Historie v/d Radio



TRADE NAME	Truetone Models DC3085A, DC3085B		
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	21MA@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 .01mfd to base of Converter. Low side to chassis.	455KC (400v 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.	"	600KC	Tune to 1400KC signal.	"	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 names of these parts have been compiled from the manufacturers to Howard W. Sams & Co., Inc., by the manufacturers of JF810

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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		2N412	2N485	2N374	PNP
X2	CK879	Overload & AVC		2N410	CK879	2N406	PNP
X3	2N483	IF Amp.		2N410	2N483	2N139	PNP
X4	CK879	Detector		2N410	CK879	2N406	PNP
X5	2N482	IF Amp. - AF Amp. Detector		2N406	2N482	2N410	PNP
X6	2N631 *	Output		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	BCD10025	EC25-10	TT10X25	ML30-15	TE-1118	
C2	50	10	150-134	XPP10050	EC50-10	TT10X50	ML50-15	TE-1119	
C3	12	10	150-132	XPP10010	EC10-10	TC43	ML10-15	TE-1114	
C4	25	10	150-133	XPP10025	EC25-10	TT10X25	ML30-15	TE-1118	
C5	80	10		BCD10080	EC100-10	TT15X100	ML100-15	TE-1119, 3	①
C6	80	10		PWE10100	EC100-10	TT15X100	ML100-15	TE-1119, 3	①

① 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	BYA1081	CCD-103	GP110	5HK-S10
C9	50000		BPD-05	DD-503	H-05S5	1DP-2-503	GP150	5HK-S50
C10	4.7 NPO 5%		NPO-DI 4.7	DTZ-4R7	DTZ-4R7	C10V47C	CCTO-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	1DP-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	5000Ω	½	120-163	B-11	A47-5000-S	Q13-114	UI2	Volume
B	Shaft			Not Req.	KSS-3	Not Req.	Not Req.	
C	Switch			KR-4	SWE-13	76-1	US-26	Power Off-On

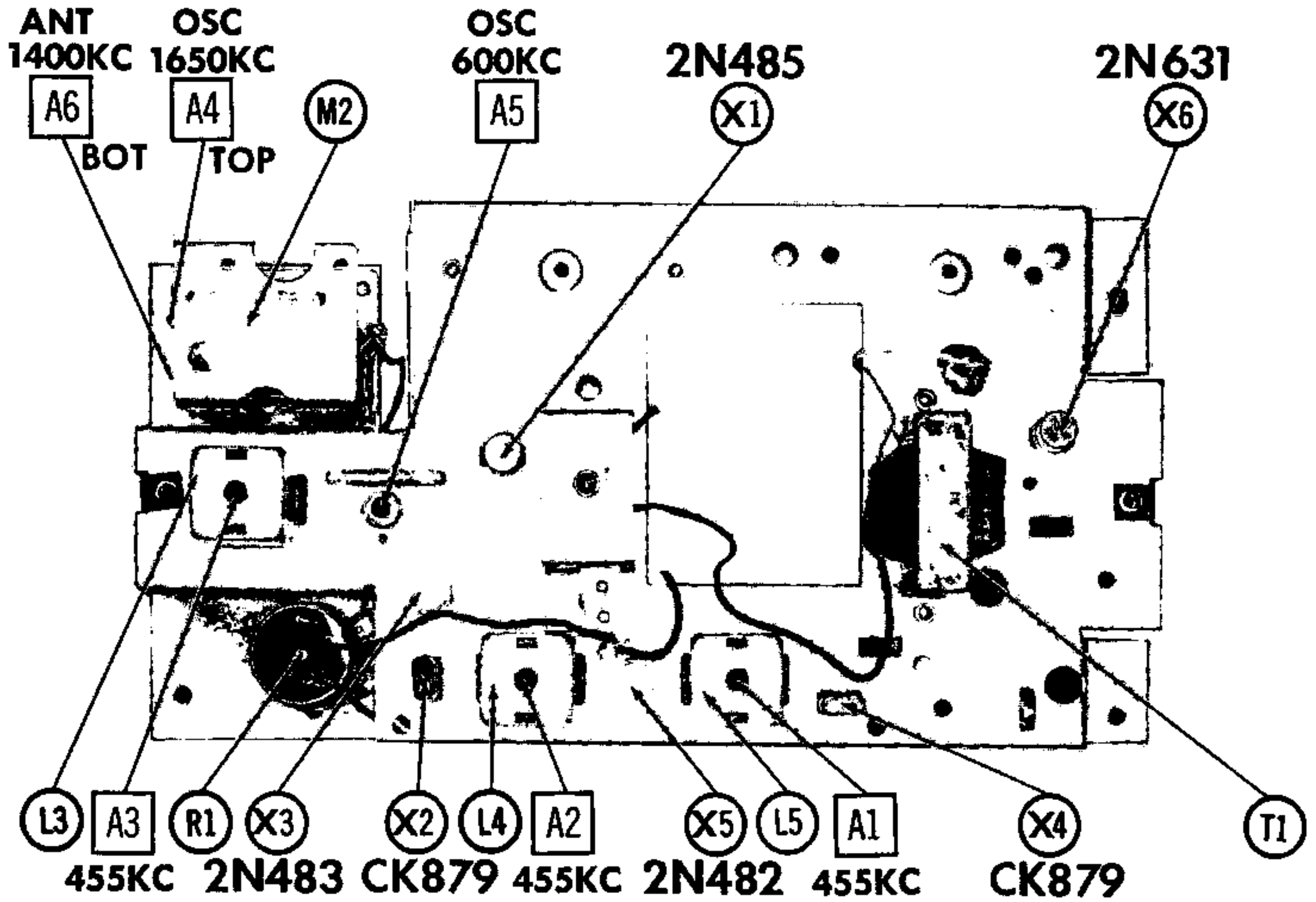
RESISTORS

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	1500Ω		R14	470Ω	
R3	33K 1W		R9	12K		R15	10K	
R4	1000Ω		R10	10K		R16	1500Ω	
R5	1000Ω		R11	1500Ω		R17	68Ω	
R6	100K	(220K) *	R12	220Ω	(470Ω) *			
R7	220Ω		R13	2200Ω				

* Alternate Value.

CHASSIS—TOP VIEW



**ANT
1400KC**

**OSC
1650KC**

**OSC
600KC**

2N485

2N631

A6

A4

M2

A5

X1

X6

BOT

TOP

L3

A3

R1

X3

X2

L4

A2

X5

L5

A1

X4

T1

455KC

2N483

CK879

455KC

2N482

455KC

CK879

PARTS LIST AND DESCRIPTIONS (Continued)

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA						NOTES
		TRUETONE PART No.	Gramer PART No.	Meissner PART No.	Merit PART No.	Miller PART No.	Ram PART No.	
L1	Loopstick	132-145C ①						
L2	Osc. Coil	136-146B ②						
L3	1st IF Trans.	130-139						
L4	2nd IF Trans.	130-140						
L5	3rd IF Trans.	130-141						

- ① Part #132-145 used in Model DC3085A.
 ② Part #136-146 used in Model DC3085A.

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE PRI. SEC.	TRUETONE PART No.	Hudson PART No.	REPLACEMENT DATA					NOTES
				Merit PART No.	Ram PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
M1	400Ω 8 Ω	188-144							

SPEAKER

ITEM No.	TYPE SIZE FIELD V.C. IMP.	REPLACEMENT DATA		NOTES
		TRUETONE PART No.	QUAM PART No.	
M3	4" 1" 8-4Ω		4A07	

BATTERIES

ITEM No.	VOLTAGE	TRUETONE PART No.	REPLACEMENT DATA						NOTES
			BURGESS		EVEREADY		MALLORY		
			"A"	"B"	"A"	"B"	"A"	"B"	
M1	1.5V	3D6731*		1*		635*		M-14R*	* 6 Required

MISCELLANEOUS

ITEM No.	PART NAME	TRUETONE PART No.	NOTES
M2	Tuning Cap. Tuning Cap.	160-135B 160-135	2 Gang, Model DC3085B (Ant. 24-272mmf, Osc. 23-125mmf) 2 Gang, Model DC3085A

CABINETS & CABINET PARTS

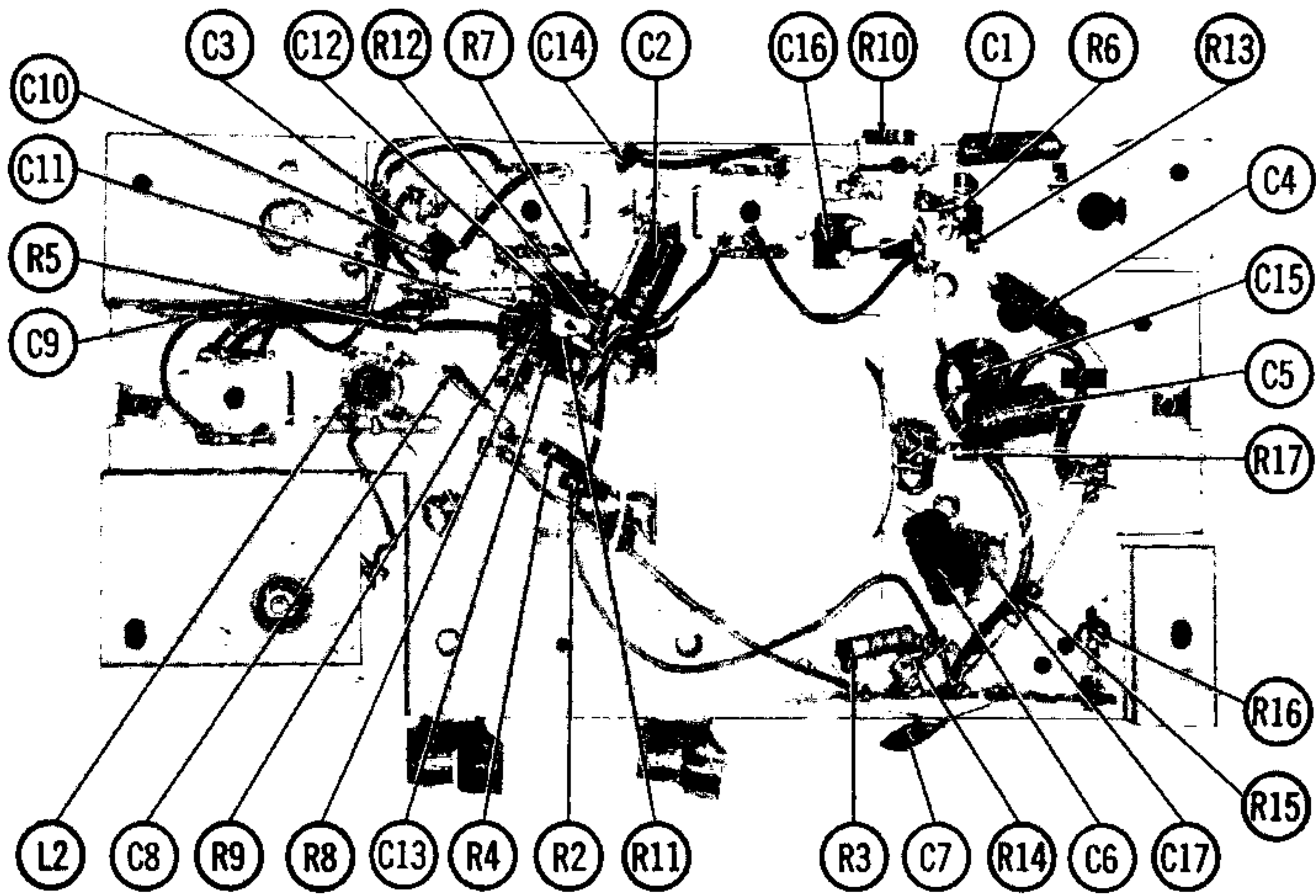
(When Ordering Cabinets & Cabinet Parts, Specify Model, Chassis & Color)

NAME	PART NO.	DESCRIPTION
Knob	220-177C	Tuning Drive, Model DC3085B
Knob	220-177	Tuning Drive, Model DC3085A
Knob	220-174	Calibration Disc.
Handle	240-134	
Cabinet	210-167E	

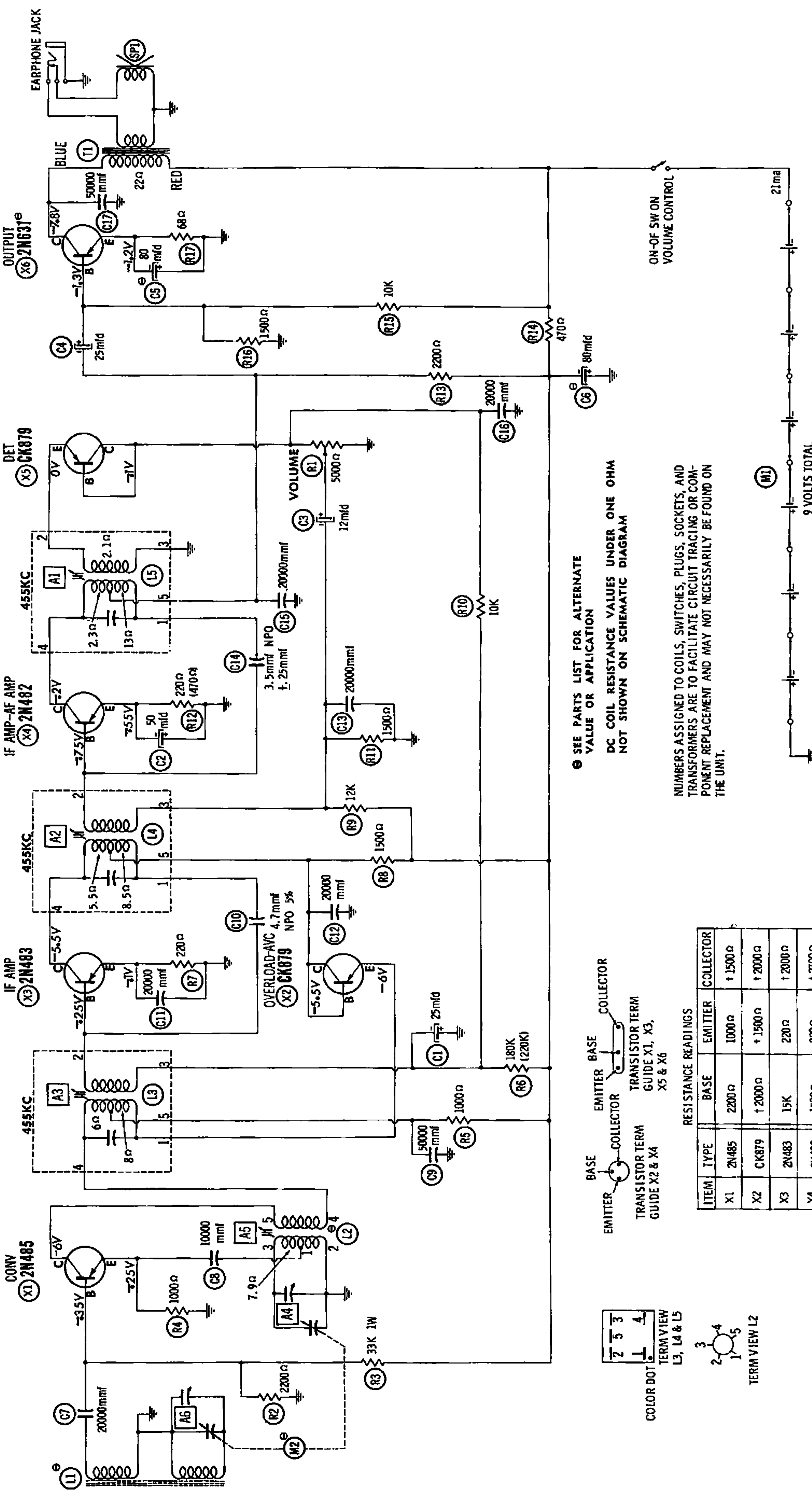
WIRING DATA

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

CHASSIS—BOTTOM VIEW

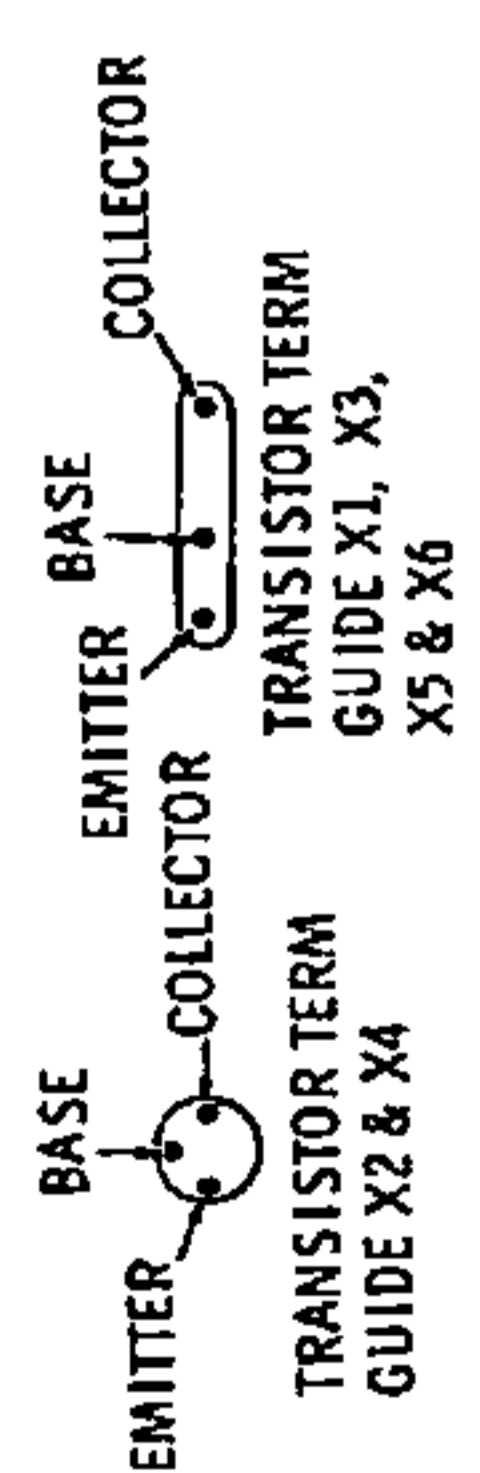


**TRUETONE MODELS
DC3085A, B**



⊕ SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION
DC COIL RESISTANCE VALUES UNDER ONE OHM NOT SHOWN ON SCHEMATIC DIAGRAM

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.



RESISTANCE READINGS

ITEM	TYPE	BASE	EMITTER	COLLECTOR
X1	2N485	220Ω	1000Ω	† 1500Ω
X2	CK879	† 2000Ω	† 1500Ω	† 2000Ω
X3	2N483	15K	220Ω	† 2000Ω
X4	2N482	1500Ω	220Ω	12700Ω
X5	CK879	5000Ω	2.1Ω	5000Ω
X6	2N631	1500Ω	68Ω	122Ω

† MEASURED FROM JUNCTION OF R14 AND R15.

9 VOLTS TOTAL

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.