TRUETONE
MODELS D3603A, D3604A

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TRADE NAME	Truetone Models D3603A, D3604A
SUPPLIER	Western Auto Supply Co., 2107 Grand Ave., Kansas City, Mo.
TYPE SET	Three Power Portable AM Receiver
TUBES (Four)	Types 1R5 Converter, 1U4 IF Amplifier, 1U5 Det.-AVC-AF Amp., 3V4 Output
POWER SUPPLY	105-125 Volts AC-DC (or) 3 Volts "A" Supply & 90 Volts "B" Supply
RATING	.15 Amp. @ 117 Volts AC (or) 150MA @ 3 Volts DC & 7.5MA @ 90 Volts DC
TUNING RANGE—BROADCAST	535KC - 1630KC

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Use battery power, if possible. If AC power is used, use an isolation transformer when available. If not, connect a .1MFD capacitor in series with low side of the signal generator and B-.
Volume control should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading. Use an insulated alignment screwdriver for adjusting.

	DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
1.	.1MFD	High side to antenna lug on tuning gang. Low side to B-.	455KC (400~Mod)	Tuning gang fully open	Across voice coil	A1, A2, A3	Adjust for maximum output. If AC power is used without an isolation transformer, reduce dummy antenna to 200MMF to reduce hum modulation.
2.	"	"	1630KC	"	"	A4	"
3.	"	"	535KC	Tuning gang fully closed	"	A5	"
4.		Loop	1400KC	Tune to 1400KC signal	"	A6	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.

HOWARD W. SAMS & CO., INC. • Indianapolis 5, Indiana

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PARTS LIST AND DESCRIPTIONS

TRUETONE MODEL D3603A

TUBES (GENERAL ELECTRIC, SYLVANIA)

ITEM No.	USE	TYPE	NOTES
V1	Converter	1R5	
V2	IF Amplifier	1U4	
V3	Det.-AVC-AF Amp.	1U5	
V4	Output	3V4	

ELECTROLYTIC CAPACITORS

ITEM No.	RATING CAP.	RATING VOLT.	REPLACEMENT DATA TRUETONE PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SANGAMO PART No.	SPRAGUE PART No.
C1A	▲40	150	EC-32	AFH3-09	CO080	FP210	TMT-8	T-040	R2312 *
B	■40	150				TC48			
C	20	150							
C2	70	15	EC-6	PRS15V100	BBR100-15		TD-100-15		TVA-1160

* Non-catalog item.

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 CAP.	RATING VOLT	REPLACEMENT DATA TRUETONE PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	MALLORY PART No.	SPRAGUE PART No.	NOTES
C3	220		CC-33	SI220	D6-221	TP39	GP2K-221	UC-5322	5GA-T22	Note 1
C4	10000		CC-4	BPD-01	DD-103	K082	811-01	DC511	5HK-S1	
C5	100		CC-5	NP0-SI100	D6-101	TZ30	801-101	ZT-531	5TCC-T1	
C6	10000		CC-4	BPD-01	DD-103	K082	811-01	DC511	5HK-S1	
C7	10000		CC-4	BPD-01	DD-103	K082	811-01	DC511	5HK-S1	
C8	1500		CC-20	SI1500	D6-152	TP54	GP2L-152	UC-5215	5GA-D15	
C9	.1	200	PC-3	P288N-1	DF-104	CUB2P1		PT401	2TM-P1	
C10	.047	400	PC-5	BPD-05	DF-503	CUB4S47		PT4147	4TM-S47	
C11	.1	400	PC-8	P488N-1	DF-104	CUB4P1		PT401	4TM-P1	
C12	220		CC-33	SI220	D6-221	TP39	GP2K-221	UC-5322	5GA-T22	

Note 1. Not used in some versions.

CONTROLS

ITEM No.	RATING RESISTANCE	RATING WATTS	REPLACEMENT DATA TRUETONE PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	IRC PART No.	MALLORY PART No.	INSTALLATION NOTES
R1	1.5Meg	½	VC-47					Volume & switch

RESISTORS

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

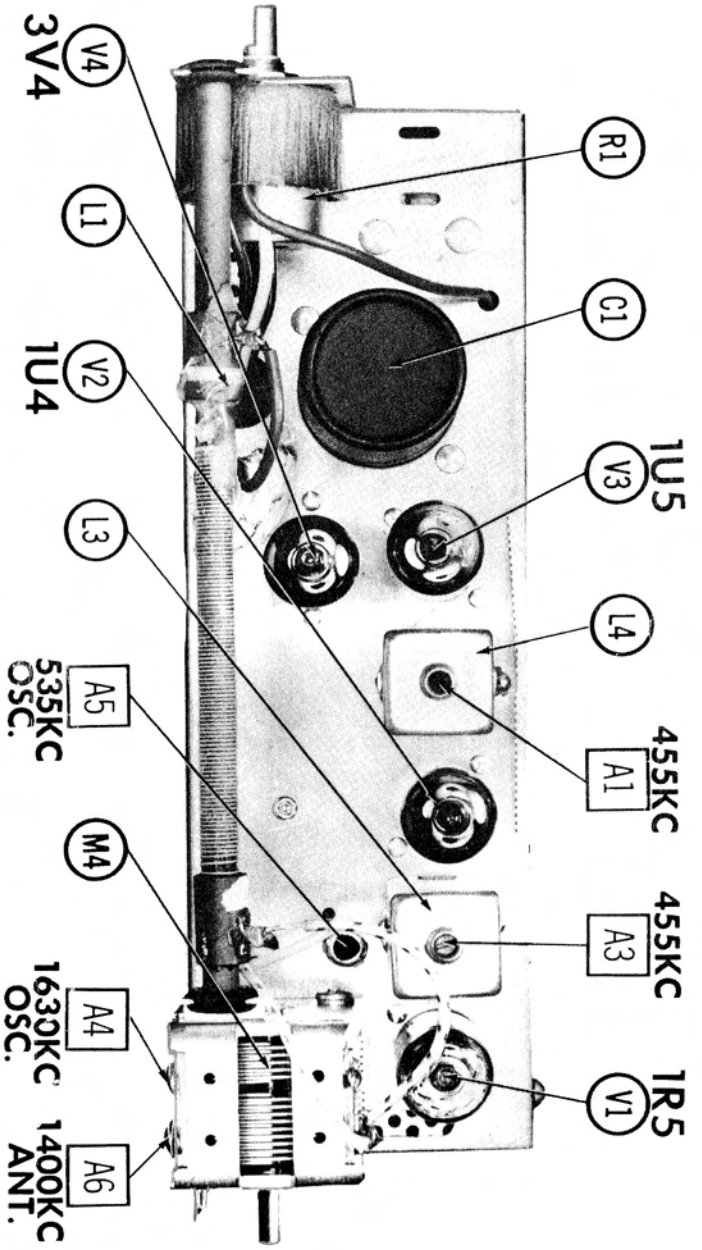
ITEM No.	RATING OHMS	RATING WATT	REPLACEMENT DATA TRUETONE PART No.	REPLACEMENT DATA IRC PART No.	NOTES
R2	1Meg			BTS-1Meg	Note 1
R3	15K		IR-63	BTS-15K	
R4	100K		IR-43	BTS-100K	
R5	3.3Meg		IR-23	BTS-3.3Meg	
R6	10Meg		IR-3	BTS-10Meg	
R7	470Ω		IR-1	BTS-470	
R8	2.2Meg		IR-13	BTS-2.2Meg	
R9	33Ω		IR-17	BTS-33	
R10	270Ω		IR-33	BTS-270	
R11	620Ω 5%		IR-39	BTS-620 5%	
R12	220K		IR-20	BTS-220K	
R13	620Ω 5%		IR-39	BTS-620 5%	
R14	2200Ω	1	IR-25	BTA-2200	
R15A	1050Ω	10	WR-7	1 3/4A-2000	
B	1050Ω	10			
R16	47Ω	1	IR-41	BTA-47	
R17	33Ω		IR-17	BTS-33	
R18	220K		IR-20	BTS-220K	

Note 1. Not used in some versions.

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE PRI.	IMPEDANCE SEC.	REPLACEMENT DATA TRUETONE PART No.	Halldorson PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	NOTES
T1	1050Ω	3-4Ω	Part of Spkr.	Z1117 ①	A-2998	A-3329	24S49	S-11X	① Drill one new mounting hole.

CHASSIS—TOP VIEW



PARTS LIST AND DESCRIPTIONS (Continued)

SPEAKER

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	SIZE	FIELD	V. C. IMP.	TRUETONE PART No.	QUAM PART No.	RCA TYPE No.	
SP1	4"	PM	3-4Ω	SPK-29	4A07	223S1	

COILS (RF-IF)

ITEM No.	USE	DC-RES.		REPLACEMENT DATA				NOTES
		PRI.	SEC.	TRUETONE PART No.	MEISSNER PART No.	MERIT PART No.	MILLER PART No.	
L1	Loop Stick	1.9Ω		LL-30				
L2	Osc. Coil	1Ω	8.5Ω	LO-18			71-OSC	
L3	Input IF	30Ω	30Ω	LI-10	16-6780	BC-356	13-PC1	
L4	Output IF	40Ω	40Ω	LI-11		BC-357		

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	TRUETONE PART No.	REPLACEMENT DATA	
K1	Audio Circuit	2000MMF, 150MMF, 10000MMF, 150MMF, 5000MMF, 10Meg, 4.7Meg, 3.3Meg, 1Meg	MC-18	Aerovox Centralab Sprague	PA-521 PC-165 DP-1

SELENIUM RECTIFIER

ITEM No.	RATING	REPLACEMENT DATA						NOTES
	CURRENT	TRUETONE PART No.	FEDERAL PART No.	INTERNATIONAL PART No.	MALLORY PART No.	RADIO RECEPTOR PART No.	SARKES TARZIAN PART No.	
M1	.075A	SR-2	1003A	RS075	6S75	5M4	75	

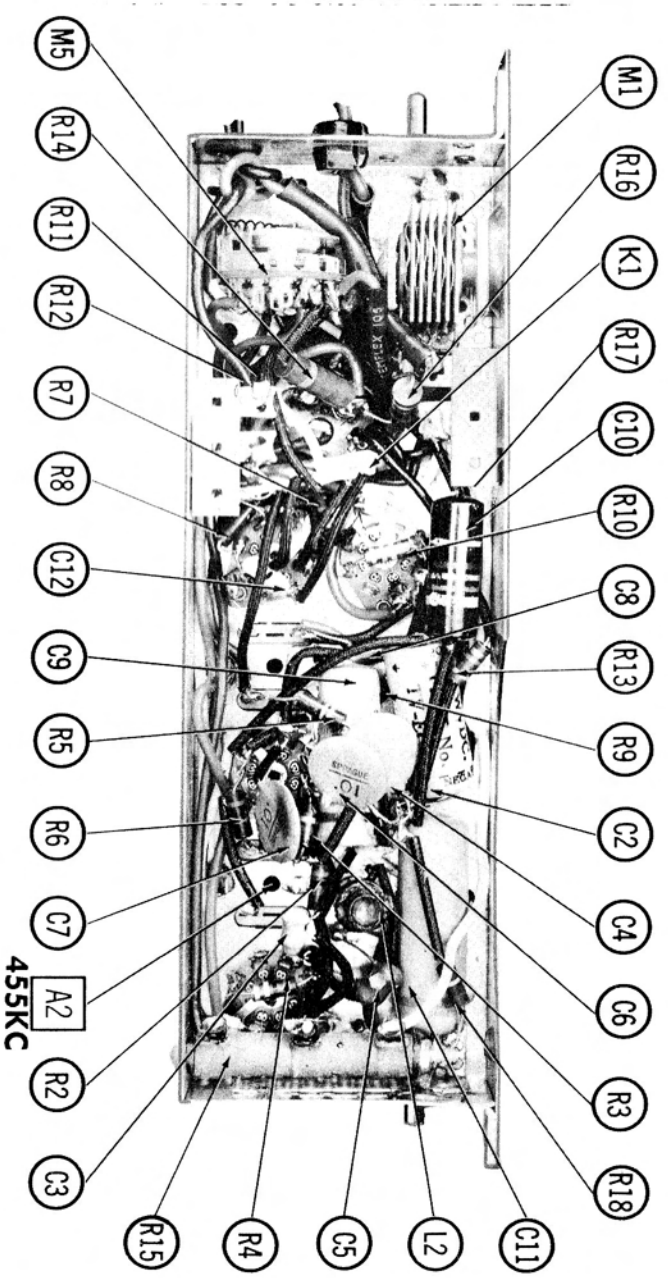
BATTERIES

ITEM No.	VOLTAGE	TRUETONE PART No.	REPLACEMENT DATA						INSTALLATION NOTES
			EVEREADY			BURGESS			
			"A"	"B"	"A-B"	"A"	"B"	"A-B"	
M2	1.5V "A"		964			2IR			Connect 2 in series
M3	45V "B"			455			XX30		Connect 2 in series

MISCELLANEOUS

ITEM No.	PART NAME	TRUETONE PART No.	NOTES
M4	Tuning Cap.	GC-12	2 Gang (13-240MMF, 13-110MMF)
M5	Switch	SW-18	Power Changeover (6 pole - 2 position, rotary, wafer type)
	Cabinet	CA-155	
	Knob	K-153	On-off-volume
	Knob	K-154	Tuning

CHASSIS—BOTTOM VIEW



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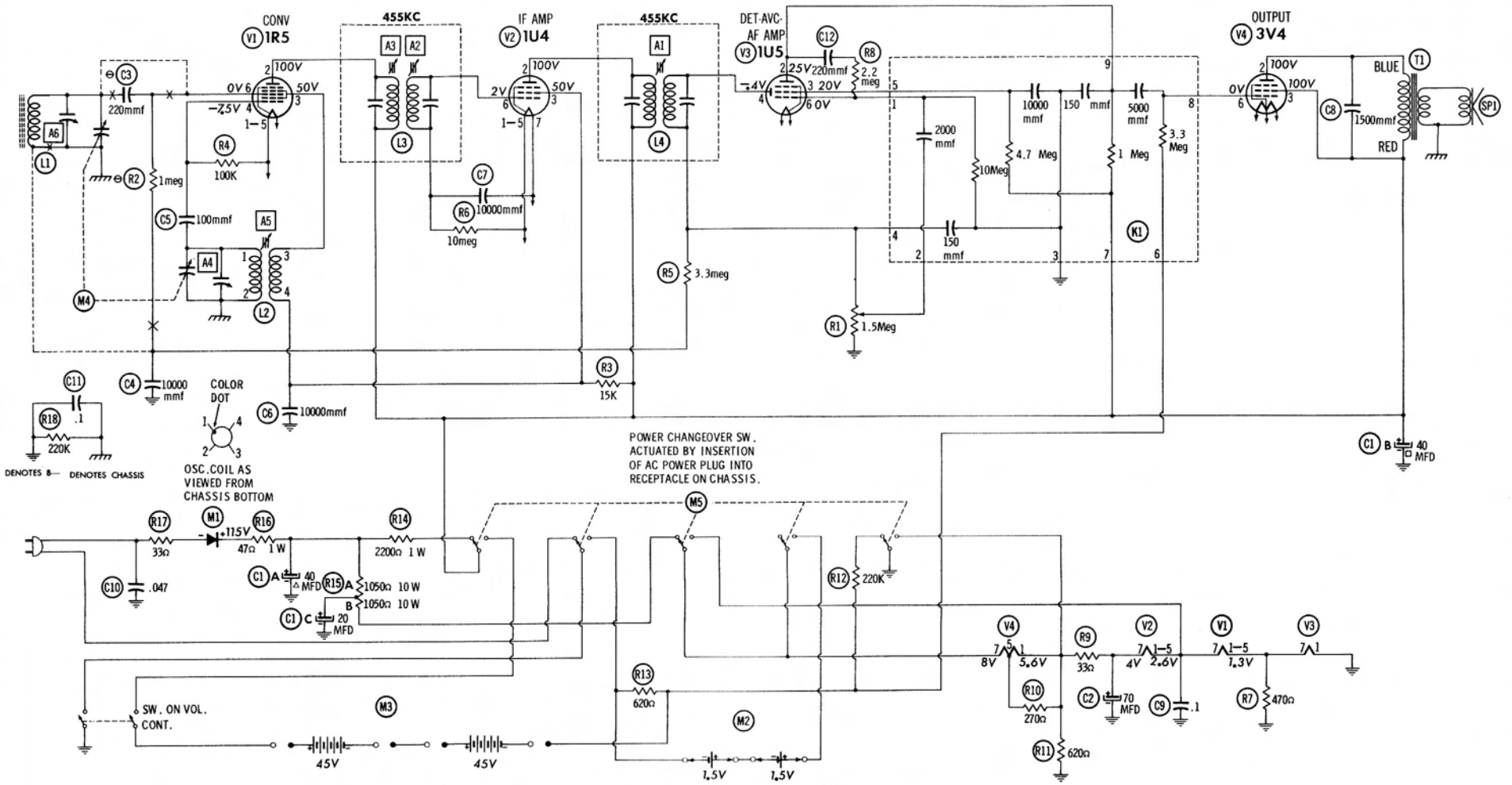

RESISTANCE READINGS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7
V1	1R5	*	†2200Ω	†17K	100K	*	5.8Meg	*
V2	1U4	*	†2200Ω	†17K	TP	*	10Meg	*
V3	1U5	*	†1Meg	†4.7Meg	1.5 Meg	TP	10Meg	*
V4	3V4	*	†2600Ω	†2200Ω	NC	*	3.5 Meg	*

* DO NOT USE OHMMETER TO MEASURE FILAMENT RESISTANCE.
† MEASURED FROM OUTPUT OF M1.
TP TIE POINT
NC NO CONNECTION.

1. DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured at 1000 ohms per volt.
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.

⊖ SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

A PHOTOFACT STANDARD NOTATION SCHEMATIC
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