

4813-21

1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltages measured 1,000 ohms per volt.
2. Socket connections are shown at bottom views.
3. Measured values are from socket pins to common negative.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance on component values makes possible a variation of  $\pm 10\%$  in voltage and resistance readings.
6. Volume control at maximum, no signal applied for voltage measurements.

The stage gain measured values listed above are approximate values for an average operative stage, rather than an absolute value. It should be borne in mind that it is possible to introduce so many variables into the measurement operation, such as, type of equipment used for measuring, handling and placement of probes, the accuracy of alignment, etc., that an absolute reading is impractical. AVC is made inoperative and 3-volt battery bias substituted for measurement.

VOLUME READINGS		Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	12SA7GT	OV.	OV.	OV.	OV.	OV.	OV.	OV.	OV.
2	12SK7GT	OV.	OV.	OV.	OV.	OV.	OV.	OV.	OV.
3	12SQ7GT	OV.	OV.	OV.	OV.	OV.	OV.	OV.	OV.
4	50L6GT	OV.	OV.	OV.	OV.	OV.	OV.	OV.	OV.
5	35Z5GT	OV.	OV.	OV.	OV.	OV.	OV.	OV.	OV.

RESISTANCE READINGS		Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	12SA7GT	270K	270K	270K	270K	270K	270K	270K	270K
2	12SK7GT	270K	270K	270K	270K	270K	270K	270K	270K
3	12SQ7GT	270K	270K	270K	270K	270K	270K	270K	270K
4	50L6GT	270K	270K	270K	270K	270K	270K	270K	270K
5	35Z5GT	270K	270K	270K	270K	270K	270K	270K	270K

RESISTANCE READINGS IN THE B1 CIRCUITS MAY VARY WIDELY ACCORDING TO THE CONDITION OF THE FILTER CAPACITORS. THE COOPERATION OF THE MANUFACTURER OF THIS RECEIVER MAKES IT POSSIBLE TO BRING YOU THIS SERVICE

A PHOTOFACT STANDARD NOTATION SCHEMATIC  
© Howard W. Sams & Co., Inc. 1948

# PHOTOFACT\* Folder

## TRUETONE MODEL D2640

### TRUETONE MODEL D2640



TRUETONE MODEL D2640

<b>TRADE NAME</b>	Truetone, Model D2640					
<b>SUPPLIER</b>	Western Auto Supply Co., 2107 Grand Ave., Kansas City, Mo.					
<b>TYPE SET</b>	AC Operated Combination Phono-Radio, Superheterodyne Receiver with Loop Antenna					
<b>TUBES (FIVE)</b>	Types, 12SA7GT Converter, 12SK7GT IF Amp., 12SQ7GT Det.-AVC-AF, 50L6GT Power Output, 35Z5GT Rectifier.					
<b>POWER SUPPLY</b>	110-120 Volts AC		<b>RATING</b>	.27 Amp. @ 117 Volts AC		
<b>TUNING RANGE—BROADCAST</b>	540-1720KC					
<b>ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT</b>						
To set pointer turn tuning cap. fully closed and set pointer to last reference mark at low freq. end of dial.						
Use isolation transformer if available. If not connect a .1 MFD capacitor in series with low side of 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.						
<b>DUMMY ANTENNA</b>	<b>SIGNAL GENERATOR COUPLING</b>	<b>SIGNAL GENERATOR FREQUENCY</b>	<b>RADIO DIAL SETTING</b>	<b>OUTPUT METER</b>	<b>ADJUST</b>	<b>REMARKS</b>
1	.1 MFD High side to Pin 8 (grid) of 12SA7. Low side to B-.	455KC	Tuning cap. fully closed	Across voice coil	A1, A2, A3, A4.	Adjust for maximum output. If isolation transformer is not used reduce dummy ant. to .001 MFD to reduce hum modulation.
2	Loop	1720KC	Tuning cap. fully open.	"	A5	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.
3	"	1500KC	Tune for maximum output.	"	A6	Adjust for maximum output.

- DISASSEMBLY INSTRUCTIONS**
1. Loosen set screws and remove two control knobs.
  2. Remove six snap-in-trimounts holding panel on rear of cabinet. Remove panel from cabinet.
  3. Remove phono-pickup plug from chassis.
  4. Remove phono-motor plug from chassis.
  5. Remove speaker plug from chassis.
  6. Remove two screws holding radio-phono switch in cabinet.
  7. Remove four hex screws holding chassis in cabinet. Remove chassis from cabinet.
  8. Remove four hex nuts holding speaker in cabinet. Remove speaker from cabinet.

**HOWARD W. SAMs & CO., INC.** **Indianapolis 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 the particular type of replacement part listed."

"Reproduction or use, without express permission, of editorial or pictorial con-

tent, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. Copyright 1948 by Howard W. Sams & Co., Inc., Indianapolis, Indiana, U. S. A. Copyright under International Copyright Union. All rights reserved under Inter-American Copyright Union (1910) by Howard W. Sams & Co., Inc."

Printed in U. S. of America

TRUETONE MODEL D2640

PARTS LIST AND DESCRIPTIONS  
TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA			INSTALLATION NOTES
		TRUETONE PART No.	STANDARD REPLACEMENT	RMA BASE TYPE	
1	CONVERTER	128A707	128A707	B3D	
2	IF AMP.	128A707	128A707	9N	
3	Det.-AVC-AF	128A707	128A707	9N	
4	Power Output	54L007	54L007	7A0	
5	Rectifier	22Z07	22Z07	5A0	

CAPACITORS

Capacity values given in the rating column are in mfd. for Electrolytic and Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING	REPLACEMENT DATA				IDENTIFICATION CODES AND INSTALLATION NOTES
		TRUETONE PART No.	AEROVOX PART No.	CORNELL-DUBIER PART No.	SOLAR PART No.	
6A	CAP. 15C	2072	PR3A0002	12422104	DSR-305	7A-440 Filter-Red
6B	40 150					7A-440
7	400 400	484-05	D7480	ST-4-05	7A-440	7A-440
8	400 400	484-01	D7481	ST-4-01	7A-440	7A-440
9	400 400	484-01	D7481	ST-4-01	7A-440	7A-440
10	400 400	484-01	D7481	ST-4-01	7A-440	7A-440
11	400 400	484-01	D7481	ST-4-01	7A-440	7A-440
12	400 400	484-01	D7481	ST-4-01	7A-440	7A-440
13	400 400	484-01	D7481	ST-4-01	7A-440	7A-440
14	400 400	484-01	D7481	ST-4-01	7A-440	7A-440
15	400 400	484-01	D7481	ST-4-01	7A-440	7A-440
16	400 400	484-01	D7481	ST-4-01	7A-440	7A-440
17	400 400	484-01	D7481	ST-4-01	7A-440	7A-440
18	400 400	484-01	D7481	ST-4-01	7A-440	7A-440
19	400 400	484-01	D7481	ST-4-01	7A-440	7A-440
20	400 400	484-01	D7481	ST-4-01	7A-440	7A-440
21	400 400	484-01	D7481	ST-4-01	7A-440	7A-440

\*Parallel sections to obtain desired capacity.

CONTROLS

ITEM No.	RATING	REPLACEMENT DATA			INSTALLATION NOTES
		TRUETONE PART No.	IRC PART No.	CLAROSTAT PART No.	
20A	500K 5	2203	D13-130X	8-79	Volume control tapped @ 100%
20B	500K 5	2203	D13-130X	8-79	Volume control tapped @ 100%
20C	500K 5	2203	D13-130X	8-79	Volume control tapped @ 100%

RESISTORS

ITEM No.	RATING	REPLACEMENT DATA			IDENTIFICATION CODES
		TRUETONE PART No.	IRC PART No.	STANCOX PART No.	
21	22K 1/2W	2203	D13-130X	8-79	Volume control tapped @ 100%
22	2.2 Meg.	2203	D13-130X	8-79	Volume control tapped @ 100%
23	4.7 Meg.	2203	D13-130X	8-79	Volume control tapped @ 100%
24	270K 1/2W	2203	D13-130X	8-79	Volume control tapped @ 100%
25	470K 1/2W	2203	D13-130X	8-79	Volume control tapped @ 100%
26	150K 1/2W	2203	D13-130X	8-79	Volume control tapped @ 100%
27	180 1/2W	2203	D13-130X	8-79	Volume control tapped @ 100%
28	75K 1/2W	2203	D13-130X	8-79	Volume control tapped @ 100%
29	270K 1/2W	2203	D13-130X	8-79	Volume control tapped @ 100%
30	270K 1/2W	2203	D13-130X	8-79	Volume control tapped @ 100%
31	470K 1/2W	2203	D13-130X	8-79	Volume control tapped @ 100%

FILTER CHOKE

ITEM No.	RATING	REPLACEMENT DATA			INSTALLATION NOTES
		TRUETONE PART No.	STANCOX PART No.	THORNDEN PART No.	
32	30MA 3100	3100	B Henries	3568	Attach to 20A per instructions

PARTS LIST AND DESCRIPTIONS (Continued)

TRANSFORMER (OUTPUT)

ITEM No.	RATING	REPLACEMENT DATA			INSTALLATION NOTES
		TRUETONE PART No.	STANCOX PART No.	THORNDEN PART No.	
33	25000 3.70 1500 .50	1335	A-3-761	7228451	A-20287

SPEAKER

ITEM No.	RATING	REPLACEMENT DATA			INSTALLATION NOTES
		TRUETONE PART No.	JENSEN PART No.	QUANA PART No.	
34	4-5/8" 1/2W	5973	5973	5A16	

R F COILS

ITEM No.	USE	REPLACEMENT DATA			INSTALLATION NOTES
		TRUETONE PART No.	MEISSNER PART No.	QUANA PART No.	
35	Loop Ant.	20140-4	20140-4	14-1000	
36	Imp. Ant.	20140-4	20140-4	14-1000	
37	Imp. Ant.	20140-4	20140-4	14-1000	
38	Output IF	20140-4	20140-4	14-1000	

DIAL LIGHT

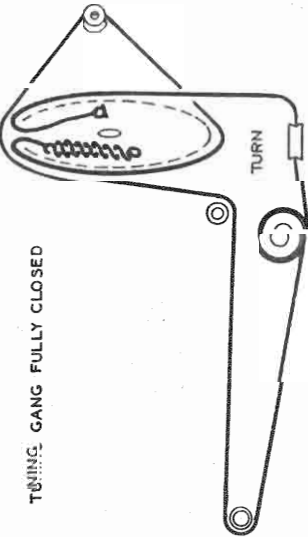
ITEM No.	BASE TYPE	VOLTS	AMPS	READ COLOR	REPLACEMENT DATA		INSTALLATION NOTES
					TRUETONE PART No.	MEISSNER PART No.	
40	500000	6-8	0.15	Brown			
41	500000	6-8	0.15	Brown			

PHONO CARTRIDGE

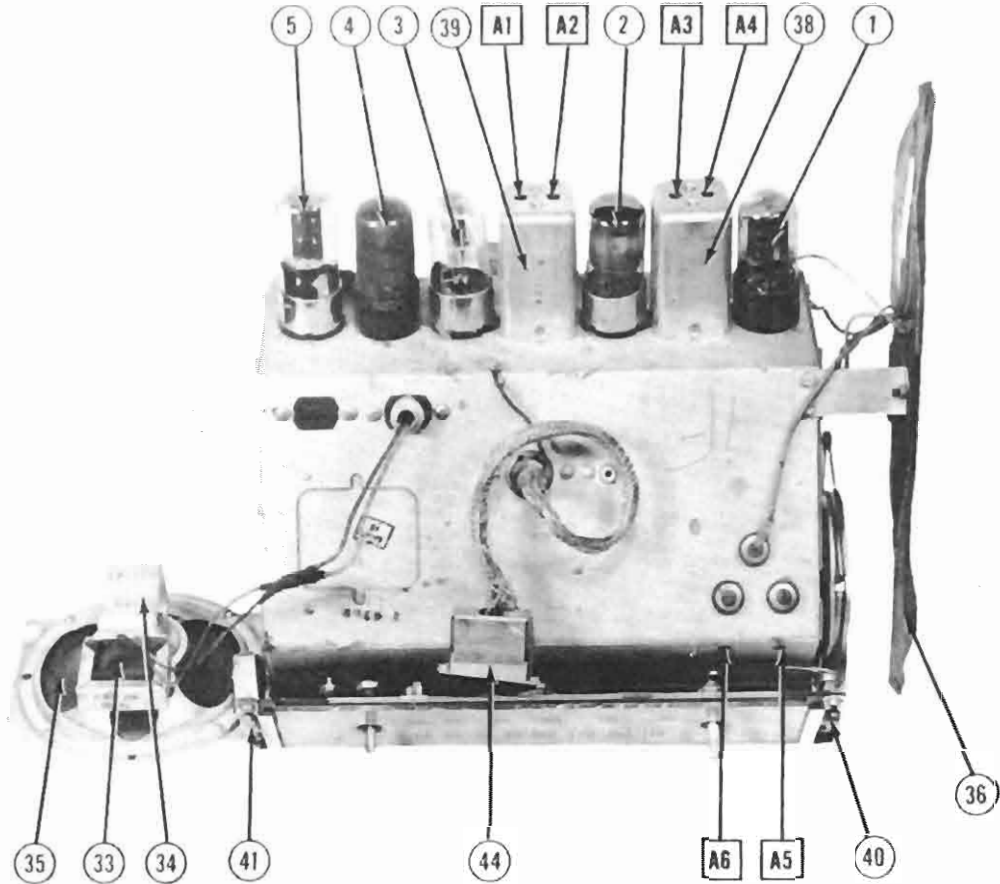
ITEM No.	REPLACEMENT DATA	REMARKS
	TRUETONE PART No.	ASTATIC PART No.
42	1-70-4	1-70-4 Original Part

MISCELLANEOUS

ITEM No.	PART NAME	TRUETONE PART No.	NOTES
43	Switch	1003	
44	2.0M Var. Cap.	1003	
45	2.0M Var. Cap.	1003	



CHASSIS—TOP VIEW



CHASSIS—BOTTOM VIEW

