

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		NOTES
	OHMS	WATT	ZENITH PART No.	IRC PART No.		OHMS	WATT	ZENITH PART No.	IRC PART No.	
R3	2.2Meg		63-1926	BTS-2.2Meg	R19	100K		63-1870	BTS-100K	
R4	220Ω		63-1758	BTS-220	R20	15K		63-1835	BTS-15K	
R5	220Ω		63-1758	BTS-220	R21	100K		63-1870	BTS-100K	
R6	1000Ω		63-1786	BTS-1000	R22	150K		63-1876	BTS-150K	
R7	10K		63-1828	BTS-10K	R23	150K		63-1876	BTS-150K	
R8	2200Ω		63-1800	BTS-2200	R24	4.7Meg		63-1940	BTS-4.7Meg	
R9	220Ω		63-1758	BTS-220	R25	470K		63-1888	BTS-470K	
R10	4.7Meg		63-1940	BTS-4.7Meg	R26	470K		63-1888	BTS-470K	
R11	2.2Meg		63-1926	BTS-2.2Meg	R27	820Ω		63-1782	BTS-820	
R12	4.7Meg		63-1940	BTS-4.7Meg	R28	470Ω		63-1814	BTS-470	
R13	1Meg		63-1828	BTS-1Meg	R29	150Ω		63-1750	BTS-150	
R14	220Ω		63-1758	BTS-220	R30	470Ω		63-1888	BTS-470	
R15	100K		63-1870	BTS-100K	R31	22Ω		63-3197	BTS-22	
R16	220Ω		63-1758	BTS-220	R32	100K		63-1870	BTS-100K	
R17	100Ω		63-1744	BTS-100	R33	470K		63-1888	BTS-470K	
R18	47K		63-1856	BTS-47K	R34	470K		63-1888	BTS-470K	

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA		ITEM No.	REPLACEMENT DATA		NOTES
	PRI.	SEC.	ZENITH PART No.	Heilderson PART No.		Merit PART No.	Stencor PART No.	
T1	3100Ω	3-4Ω		Z103	A-3336	24S50A	S-16X	

SPEAKER

ITEM No.	RATINGS		REPLACEMENT DATA		NOTES
	SIZE	FIELD V. C. IMP.	ZENITH PART No.	QUAM PART No.	
SP1	5 1/4"	PM 3-4Ω		52A1	
				217S1	

COILS (RF-IF)

ITEM No.	USE	DC RES.		REPLACEMENT DATA		NOTES
		PRI.	SEC.	ZENITH PART No.	MEISSNER PART No.	
L1	FM Ant. Coil	0Ω		20-355		
L2	FM RF Coil	0Ω	0Ω	S-13871		
L3	FM Osc. Coil	0Ω	0Ω	S-15733		
L4	AM Loop Ant.	1.9Ω		S-24383		
L5	AM Osc. Coil	4.6Ω		S-22914		
L6	1st FM IF	.5Ω	.5Ω	95-1150	FM-251	
L7	1st AM IF	4.8Ω	17Ω	95-1230	BC-368	
L8	2nd FM Trans. & AM IF Trans.	1.5Ω	26Ω	95-1251		
L9	3rd FM IF	.5Ω	.5Ω	95-1150	FM-251	
L10	3rd AM IF	17Ω	17Ω	95-1102	BC-355*	
L11	Discriminator	.4Ω	.4ΩCT	95-1153	12-C6*	

"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 content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. Copyright 1956 by Howard W. Sams & Co., Inc., Indianapolis 5, Indiana, U. S. of America. 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

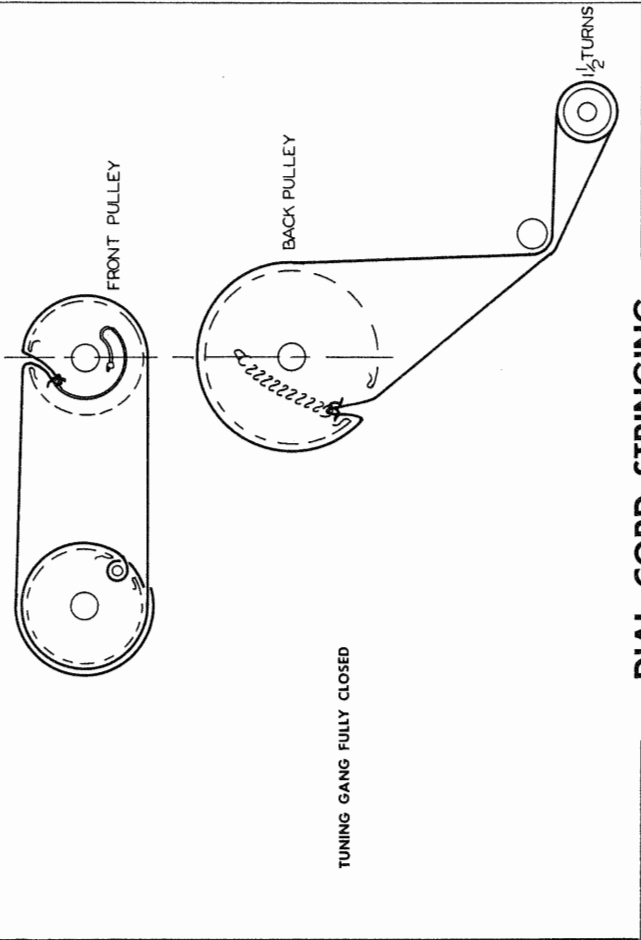
PARTS LIST AND DESCRIPTIONS (Continued)

SELENIUM RECTIFIER

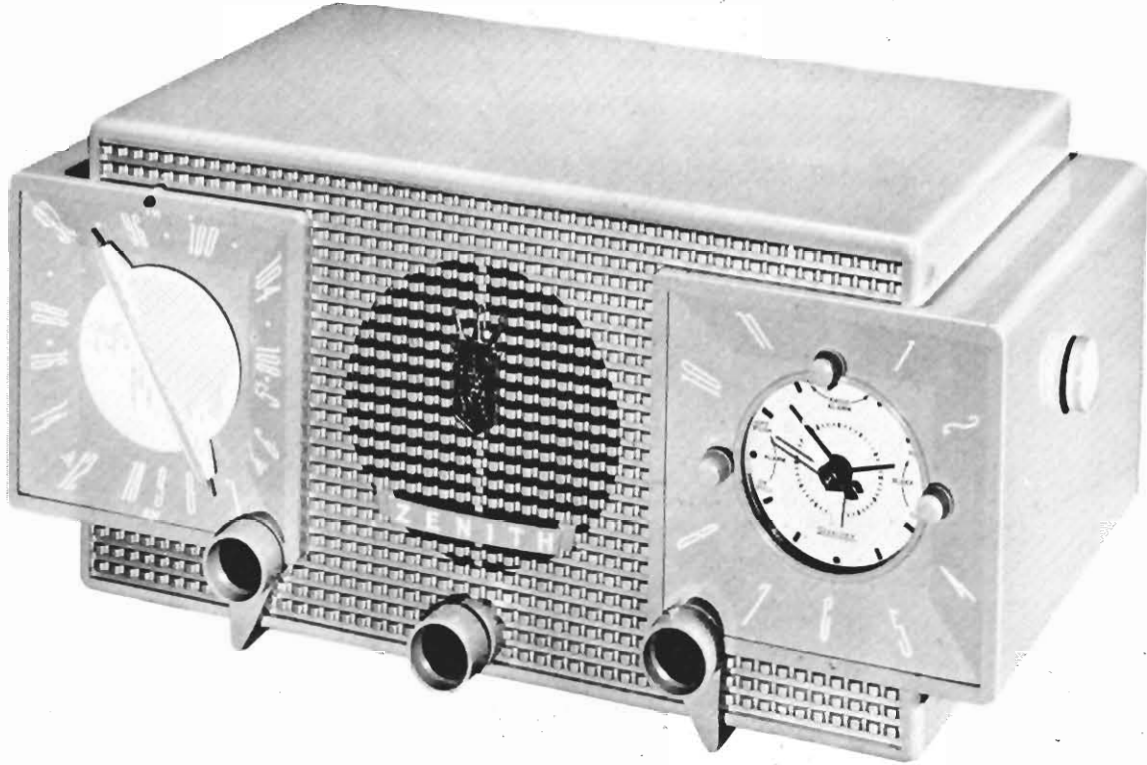
ITEM No.	RATING	REPLACEMENT DATA				NOTES
		ZENITH PART No.	FEDERAL PART No.	INTERNATIONAL PART No.	MALLORY PART No.	
M1	.071A	212-13	1101A	RS100	6S100	100A

MISCELLANEOUS

ITEM No.	PART NAME	ZENITH PART No.	NOTES
M2	Dial Light	100-105	
M3	Tuning Cap.	22-1742	#NE51
M4	Switch	85-481	2 Gang (9-460MMF, 15-185MMF)
M5	Lock	S-24363	AM-FM (6 Pole - 2 Position Rotary, Wafer Type)
	Cabinet	14-1890	Model Y733R
	Cabinet	14-1891	Model Y733G
	Cabinet	14-1892	Model Y733Y
	Knob	46-901	Tone, Model Y733R
	Knob	46-1407	Tone, Model Y733G
	Knob	46-1408	Tone, Model Y733Y
	Knob	46-972	AM-FM Switch, Tuning & Volume, Model Y733R
	Knob	46-984	AM-FM Switch, Tuning & Volume, Model Y733G
	Knob	46-989	AM-FM Switch, Tuning & Volume, Model Y733Y
	Knob	46-904	Alarm, Radio & Auto Off Switch, Model Y733R
	Knob	46-905	Alarm, Radio & Auto Off Switch, Model Y733G
	Knob	46-985	Alarm, Radio & Auto Off Switch, Model Y733Y
	Dial Pointer	59-270	Model Y733R
	Dial Pointer	59-289	Model Y733G
	Dial Pointer	59-290	Model Y733Y
	Crystal	192-202	Clock



ZENITH MODELS
Y733G, R, Y (Ch. 7Y03)

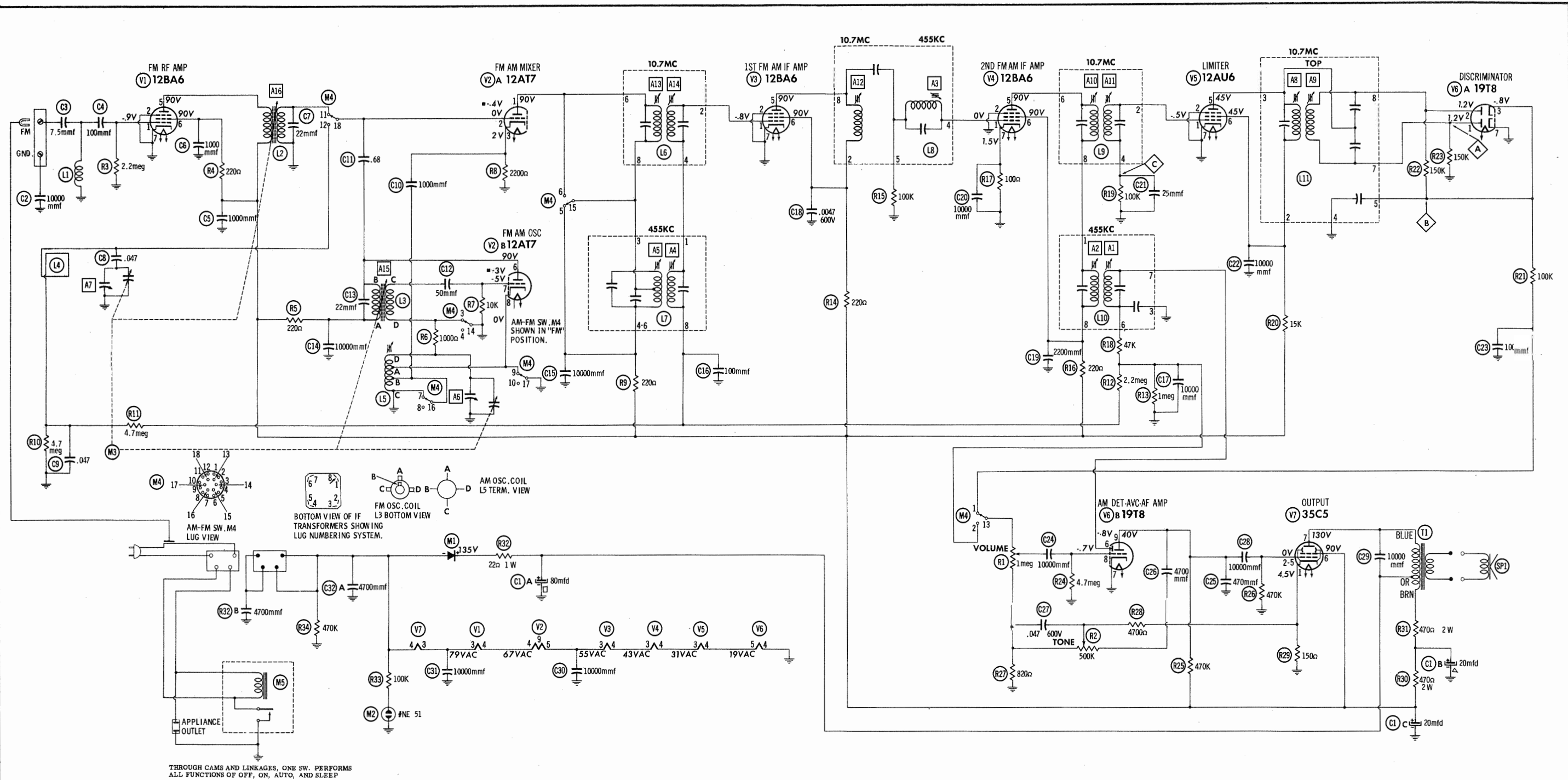


ZENITH MODELS
Y733G, R, Y (Ch. 7Y03)

PHOTOFACT* Folder



ZENITH MODELS
Y733G, R, Y (Ch. 7Y03)

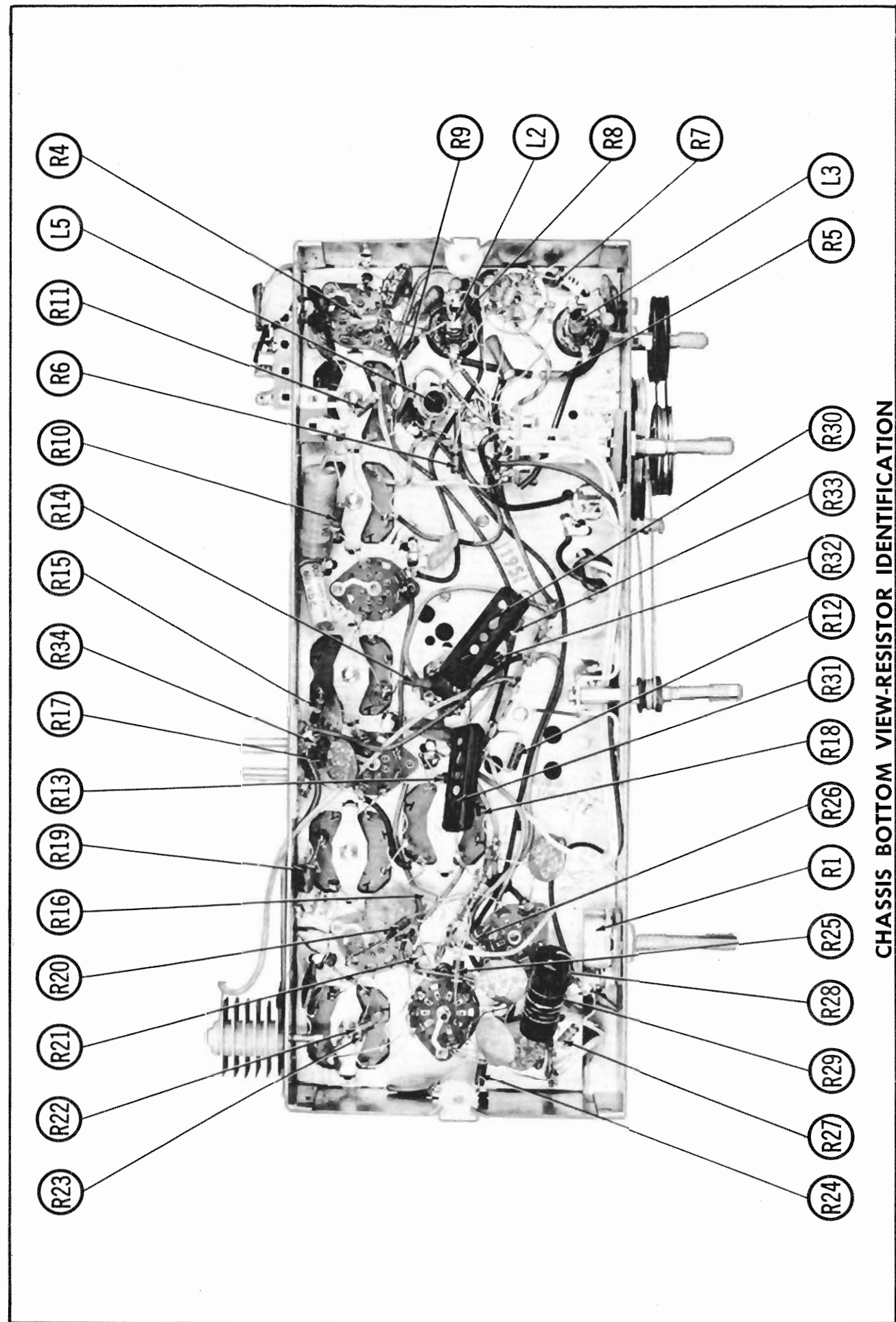


1. DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured at 1000 ohms per volt.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common negative.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance on component values makes possible a variation of $\pm 10\%$ in voltage and resistance readings.
6. Volume control at maximum, no signal applied for voltage measurements.

RESISTANCE READINGS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	12BA6	2.2Meg	0 Ω	75 Ω	65 Ω	\dagger 1000 Ω	\dagger 1200 Ω	0 Ω		
V2	12AT7	\dagger 1200 Ω	2.8Meg	2200 Ω	65 Ω	55 Ω	\dagger 1200 Ω	10K	0 Ω	60 Ω
V3	12BA6	2Meg	0 Ω	55 Ω	40 Ω	\dagger 1200 Ω	\dagger 1200 Ω	0 Ω		
V4	12BA6	100K	0 Ω	40 Ω	30 Ω	\dagger 1200 Ω	\dagger 1200 Ω	100 Ω		
V5	12AU6	100K	0 Ω	30 Ω	18 Ω	\dagger 15K	\dagger 15K	0 Ω		
V6	19T8	150K	150K	220K	0 Ω	18 Ω	500K	0 Ω	4.7Meg	\dagger 470K
V7	35C5	150 Ω	470K	75 Ω	110 Ω	470K	\dagger 1000 Ω	\dagger 260 Ω		

ALL MEASUREMENTS TAKEN IN "FM" POSITION UNLESS OTHERWISE DESIGNATED.
 \dagger MEASURED FROM OUTPUT OF M1.
 ■ MEASURED IN "AM" POSITION.



CHASSIS BOTTOM VIEW-RESISTOR IDENTIFICATION

MODELS Y733G (Ch. 7Y03)

ZENITH

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. Use an insulated alignment screwdriver for adjusting. Loop should be maintained in same relative position to chassis as when receiver is in cabinet. Use isolation transformer, if available. If not, connect a .1MFD capacitor in series with low side of signal generator and B-. To set pointer, turn tuning capacitor fully closed and set pointer to last reference mark at low frequency end of dial.						
AM ALIGNMENT						
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	OUTPUT METER	ADJUST
1. .05MFD	High side to pin 2 (grid) of 12AT7 (V2). Low side to chassis.	455KC (400% Mod)	BC	800KC	Across voice coll.	A1, A2, A3, A4, A5
2.	Loop	1600KC	"	1600KC	"	A6
3.	"	1400KC	"	Tune to 1400KC signal.	"	A7
FM IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM						
Use a 2Meg resistor in series with DC probe of VTVM.						
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	CONNECT VTVM	ADJUST
4. .05MFD	High side to pin 1 (grid) of 12AU6 (V5). Low side to chassis.	10.7MC (unmod)	FM	Point of non-interference.	DC probe to point A. Common to chassis.	A8
5.	"	"	"	"	DC probe to point B. Common to chassis.	A9
6.	High side to pin 1 (grid) of 12BA6 (V4). Low side to chassis.	"	"	"	DC probe to point C. Common to chassis.	A10, A11
7.	High side to pin 1 (grid) of 12BA6 (V3). Low side to chassis.	"	"	"	"	A12
8.	High side to pin 2 (grid) of 12AT7 (V2). Low side to chassis.	"	"	"	"	A13, A14
FM IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE						
Use frequency modulated signal with 60% modulation and 450KC sweep. Use 120V sawtooth voltage in scope for horizontal deflection.						
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	CONNECT SCOPE	ADJUST
4. .05MFD	High side to pin 1 (grid) of 12AU6 (V5). Low side to chassis.	10.7MC (450KC Swp)	FM	Point of non-interference.	Vert. amp. to point A. Low side to chassis.	A8
5.	"	"	"	"	Vert. amp. to point B. Low side to chassis.	A9
6.	High side to pin 1 (grid) of 12BA6 (V4). Low side to chassis.	"	"	"	Vert. amp. to point C. Low side to chassis.	A10, A11
7.	High side to pin 1 (grid) of 12BA6 (V3). Low side to chassis.	"	"	"	"	A12
8.	High side to pin 2 (grid) of 12AT7 (V2). Low side to chassis.	"	"	"	"	A13, A14
FM RF ALIGNMENT						
Use a 2Meg resistor in series with DC probe of VTVM.						
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	CONNECT VTVM	ADJUST
9. 270Ω carbon resistor	High side thru 270Ω to FM antenna terminal. Low side to chassis.	98MC (unmod)	FM	98MC	DC probe to point D. Common to chassis.	A15, A16

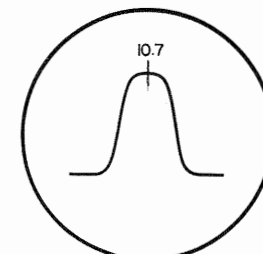


FIG. 1

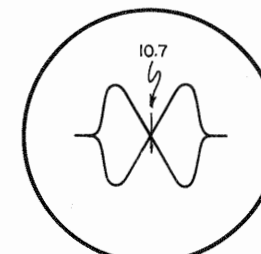


FIG. 2