

MOTOROLA MODELS VT-73, VT-73A  
(Ch. TS-4J LATE)

TRADE NAME	Motorola Model VT-73, VT-73A (Chassis TS-4J Late)	
MANUFACTURER	Motorola Inc., 4545 Augusta Blvd., Chicago 51, Illinois	
TYPE SET	Portable Television Receiver	
TUBES	Sixteen	
POWER SUPPLY	110-120 Volts AC-60 Cycle	RATING: .93 Amp. @ 117 Volts AC
TUNING RANGE	Channels 2 thru 13	

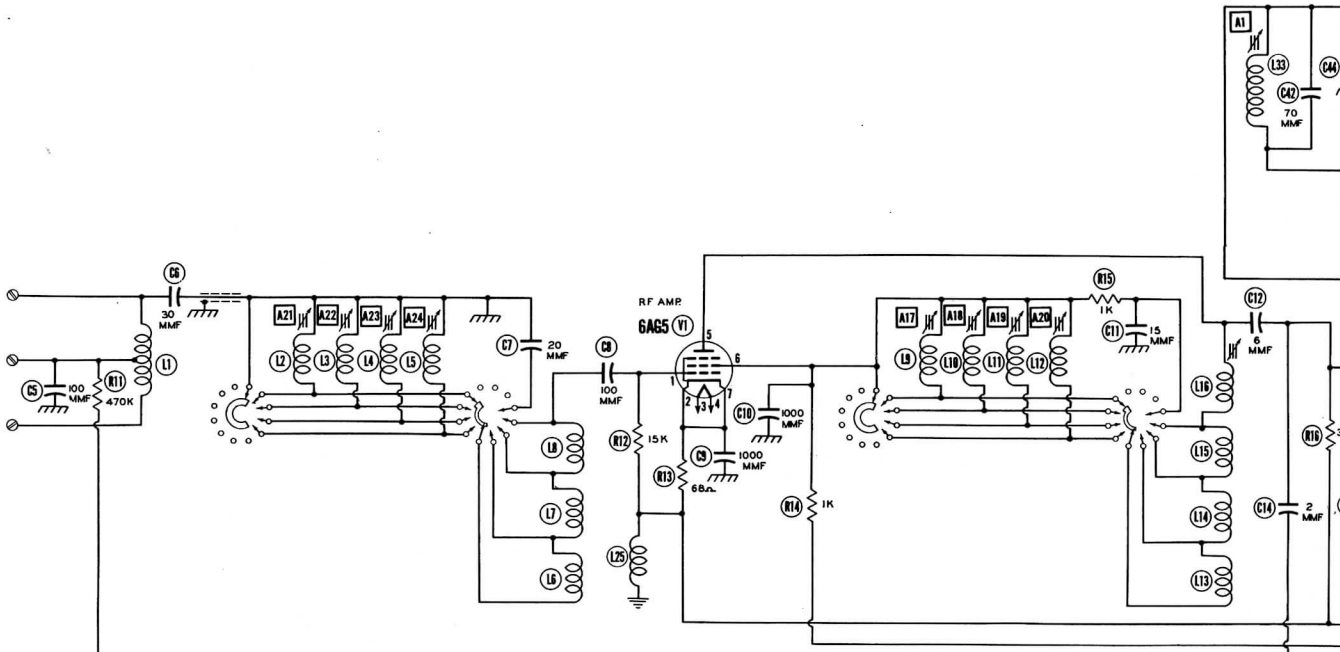
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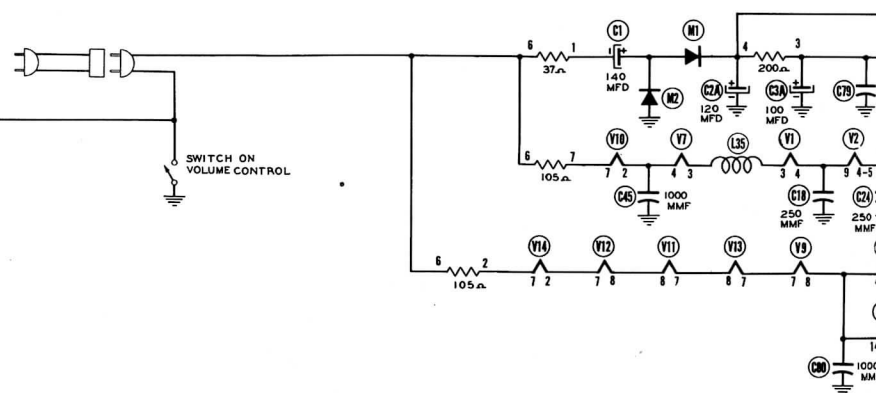
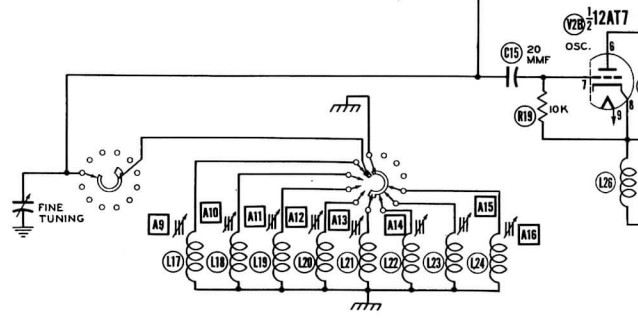
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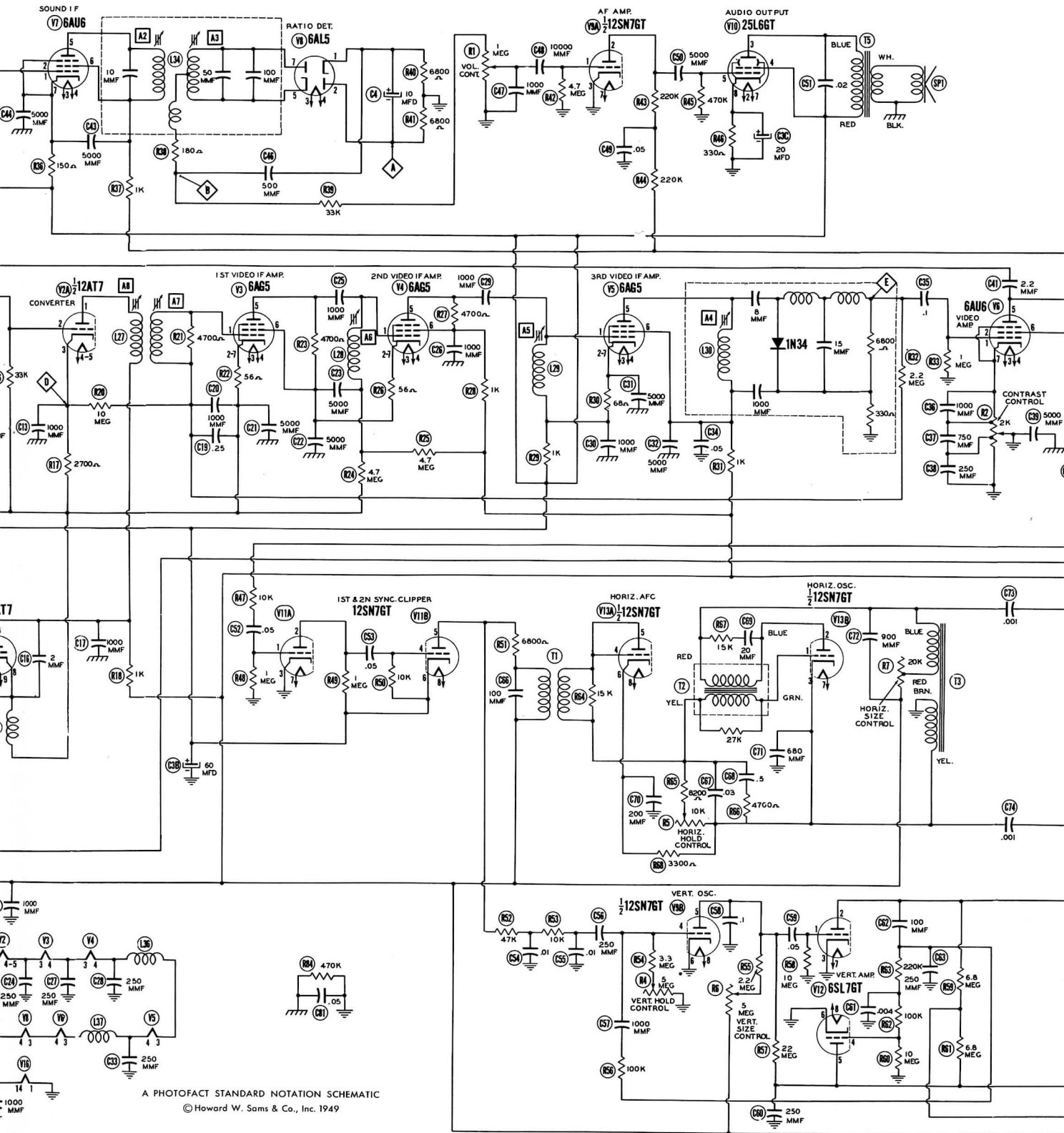
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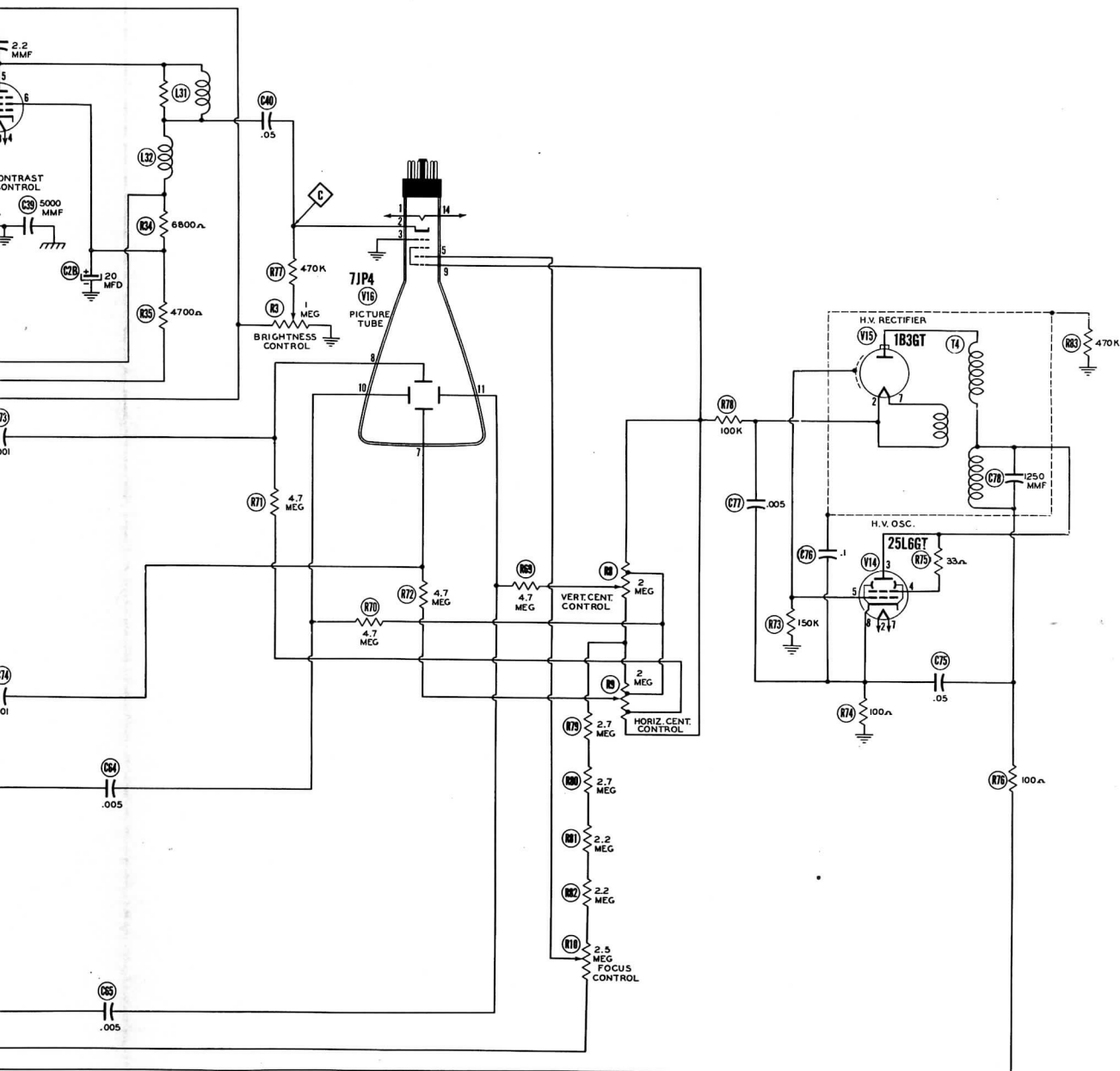


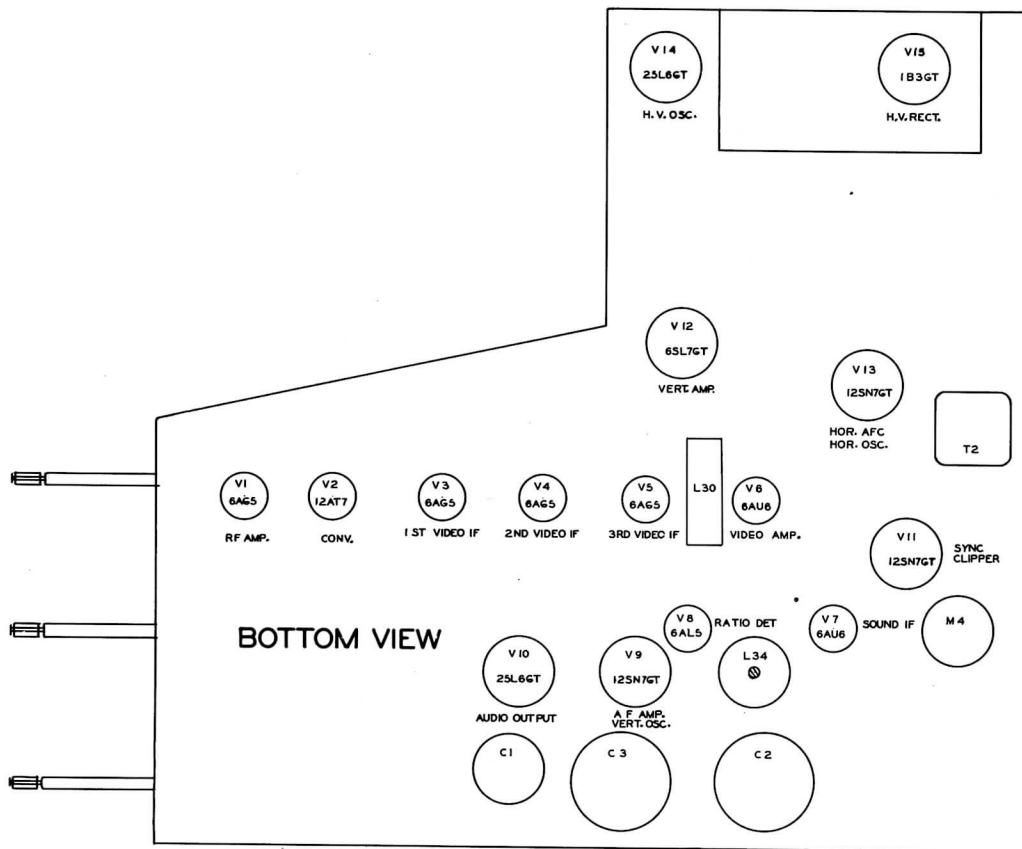
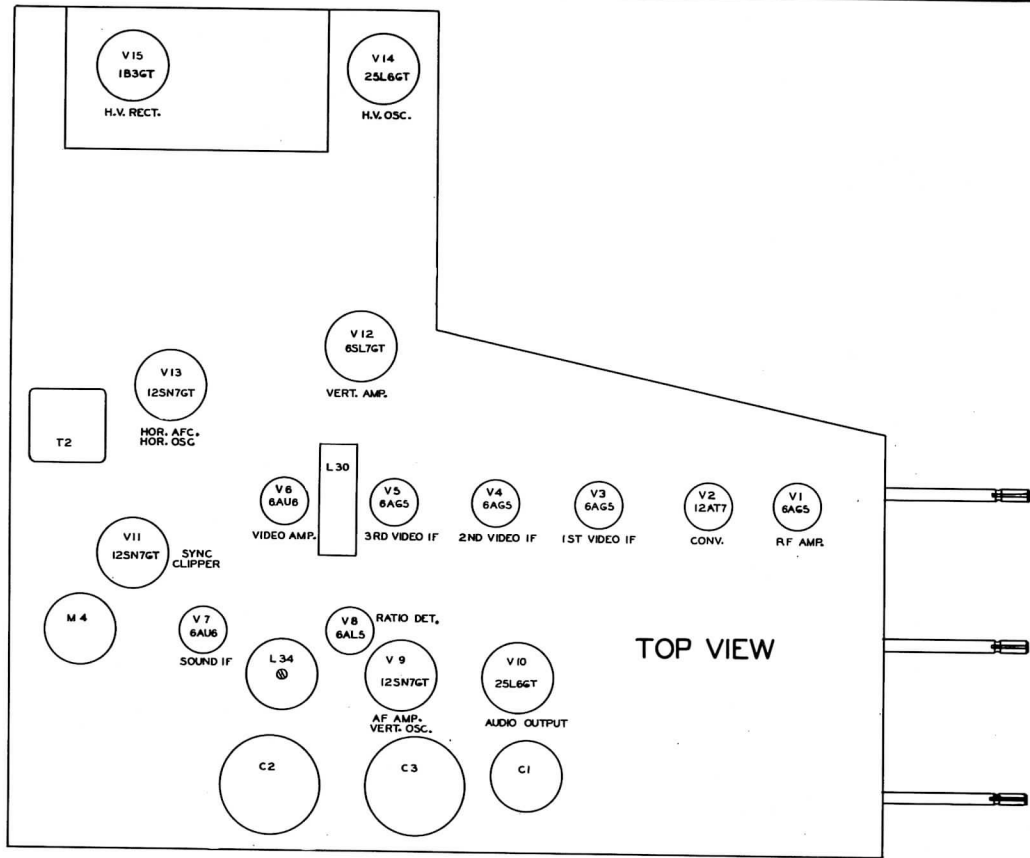
THE COOPERATION OF THE MANUFACTURER OF THIS RECEIVER MAKES IT POSSIBLE TO BRING YOU THIS SERVICE





MOTOROLA MODELS VT-73, VT-73A  
(Ch. TS-4J LATE)





TUBE PLACEMENT CHART

# ALIGNMENT INSTRUCTIONS

## PRE-ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

If set is to be aligned with picture tube removed, it will be necessary to short pins 1 and 14 on the picture tube socket.

It is recommended the following circuits changes be made during alignment of the receiver to prevent erroneous indications which might result in mis-alignment.

1. Unsolder one end of resistor R74 connected between pins 6 and 8 of V14 (High voltage Oscillator.)
2. Disconnect the yellow lead connected to the horizontal output transformer (T3).
3. Disconnect one end of RF choke L26 to disable the local oscillator.

When using an oscilloscope, a 1000MFD capacitor should be connected across the vertical input terminals. Use isolation transformer if available. If not connect a .1MFD capacitor in series with low side of signal generator and B-.

When using an oscilloscope without an isolation transformer connect a 10MFD capacitor, in parallel with an .005 capacitor, in series with the low side of the oscilloscope and B-.

### SOUND IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
1. .001MFD	High side to pin 1 (Grid) of 6AU6 (V6), Low side to B-.	4.5MC (Unmod.)	Any	DC Probe to Point $\diamond$ Common thru 10K $\Omega$ resistor to B-.	A1,A2	Adjust for maximum deflection.
2. .001MFD	"	"	"	DC Probe to Point $\diamond$ Common thru 10K $\Omega$ to B-.	A3	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.

### SOUND IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE

Connect the synchronized sweep voltage from the signal generator to the horizontal input of the oscilloscope for horizontal deflection.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
1. .001MFD	High side to pin 1 (Grid) of 6AU6 (V6), Low side to B-.	4.5MC (450KC Sweep)	4.5MC	Any	Vert. Amp. to Point $\diamond$ Low side to B-.	A1,A2	Disconnect capacitor C4. Adjust for maximum amplitude and symmetry as per Fig 1.
2. .001MFD	"	"	"	"	Vert. Amp. to Point $\diamond$ Low side to B-.	A3	Reconnect C4. Adjust A3 so marker occurs at center of pattern as per Fig 2. Slightly retouch A2 for maximum amplitude and straightness of diagonal line.

### VIDEO IF ALIGNMENT

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
3. .001MFD	High side to pin 1 (Grid) of 6AG5 (V3), Low side to B-.	25MC (10MC Sweep)	23.5MC 27.0MC	Any	Vert. Amp. to Point $\diamond$ Low side to B-.	A4,A5, A6	Adjust for response curve with markers as shown in Fig 3.
4. .001MFD	High side to pin 2 (Grid) of 12AT7 (V2). Low side to B-.	"	22.4MC 26.4MC	"	"	A7,A8	Adjust for response curve with markers as shown in Fig 4.

### OSCILLATOR ALIGNMENT

Reconnect the RF choke L26 in the oscillator cathode circuit. Set fine tuning control to mid position.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
5. .001MFD	High side to pin 1 (Grid) of 6AG5 (V1), Low side to B-.	81.45MC (Unmod.) or 87.45MC	Not Used	2 or 3	Vert. Amp. to Point $\diamond$ Low side to B-.	A9	Adjust for zero beat. This is indicated by a sharply defined trace that appears between two wide traces as coil is tuned thru resonance.
6. .001MFD	"	93.45MC	"	4	"	A10	"
7. .001MFD	"	103.45MC	"	5	"	A11	"
8. .001MFD	"	109.45MC	"	6	"	A12	"
9. .001MFD	"	152.35MC	"	7	"	A13	"
10. .001MFD	"	158.35MC or 164.35MC	"	8 or 9	"	A14	"
11. .001MFD	"	170.35MC or 176.35MC	"	10 or 11	"	A15	"
12. .001MFD	"	182.35MC or 189.35MC	"	12 or 13	"	A16	"

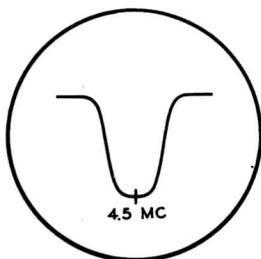


FIG. 1

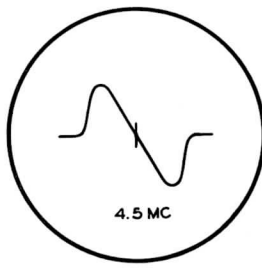


FIG. 2

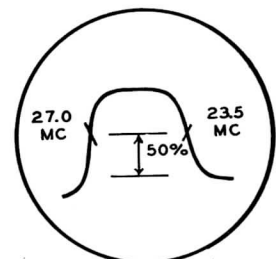


FIG. 3

# ALIGNMENT INSTRUCTIONS (CONT.)

## RF ALIGNMENT

Disconnect RF choke L26 in oscillator cathode circuit. Note that the antenna coils are tuned first to the picture carrier frequency and then the RF coils are adjusted to the sound carrier frequency.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
13A	Direct	High side to lower "A" on antenna terminal strip. Low side to "G".	57MC (10MC Sweep)	55.25MC 59.75MC	2	Vert. Amp to Point $\odot$ Low side to B-.	A17, A18  Alternately adjust A17 (RF coil adj.) and A18 (Ant. coil adj.) for maximum amplitude and symmetry as per Fig 5.
13B	Direct	"	63MC (10MC Sweep)	61.25MC 65.75MC	3	"	"
14.	Direct	"	69MC (10MC Sweep)	67.25MC 71.75MC	4	"	A19, A20  Alternately adjust A19 (RF Coil adj.) and A20 (Ant. Coil Adj.) for maximum amplitude and symmetry as per Fig 5.

CHANNELS 5 AND 6 ARE ALIGNED WITH AM SIGNAL GENERATOR INSTEAD OF SWEEP GENERATOR

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
15.	Direct	High side to lower "A" on antenna terminal strip. Low side to "G".	77.25MC (400 $\sqrt{30\%}$ Mod.) 81.75MC (400 $\sqrt{30\%}$ Mod.)	5	Vert. Amp. to Point $\odot$ Low side to chassis.	A22 A21  Adjust A22 for maximum amplitude at 77.25MC and A21 for maximum amplitude at 81.75MC.
16.	Direct	"	83.25MC (400 $\sqrt{30\%}$ Mod.) 87.75MC (400 $\sqrt{30\%}$ Mod.)	6	"	A24 A23  Adjust A24 for maximum amplitude at 83.25MC and A23 for maximum amplitude at 87.75MC.

17. There are no antenna coil adjustments for channels 7 thru 13. The RF coils for these channels are adjusted as follows, using AM signal generator and oscilloscope as above:  
 A. If channels 8, 10 and 12 are to be set up, adjust A25 for maximum response at 195MC on channel 10.  
 B. If channels 9, 11 and 13 are to be set up, adjust A25 for maximum response at 189MC on channel 9.

## ALTERNATE RF ALIGNMENT

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
13A	Direct	High side to lower "A" on antenna terminal strip. Low side to "G".	55.25MC (Unmod.) 59.75MC (Unmod.)	2	DC Probe to Point $\odot$ Low side to B-.	A18 A17  Alternately align the antenna and RF coils at their designated frequencies for maximum deflection.
B	Direct	"	61.25MC (Unmod.) 65.75MC (Unmod.)	3	"	A18 A17  "
14.	Direct	"	67.25MC (Unmod.) 71.75MC (Unmod.)	4	"	A20 A19  "
15.	Direct	"	77.25MC (Unmod.) 81.75MC (Unmod.)	5	"	A22 A21  "
16.	Direct	"	83.25MC (Unmod.) 87.75MC (Unmod.)	6	"	A24 A23  "

For channels 7 thru 13 follow same procedure as outlined in step 17. Instead of a scope being used as an output indicator, a VTVM, connected as above, may be used.

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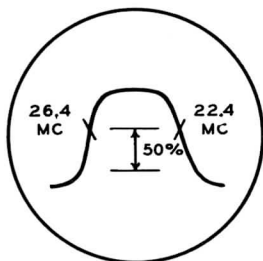


FIG. 4

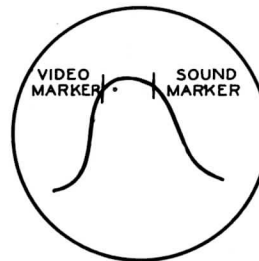


FIG. 5

# VOLTAGE AND RESISTANCE MEASUREMENTS

VOLTAGE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9			
V 1	6AG5	-1.1VDC	.5VDC	54VAC	48VAC	90VDC	90VDC	.5VDC					
V 2	12AT7	220VDC	0V	8VDC	40VAC	40VAC	220VDC	§-.2VDC	.1VDC	48VAC			
V 3	6AG5	.1VDC	.6VDC	40VAC	34VAC	80VDC	120VDC	.6VDC					
V 4	6AG5	77VDC	120VDC	34VAC	27VAC	187VDC	225VDC	120VDC					
V 5	6AG5	11.5VDC	11.3VDC	27VAC	20VAC	1125VDC	1125VDC	113VDC					
V 6	6AU6	0V	5.2VDC	20VAC	13VAC	230VDC	250VDC	5.2VDC					
V 7	6AU6	1 0V	11.4VDC	54VAC	60VAC	1135VDC	1135VDC	11.4VDC					
V 8	6AL5	11VDC	-3.6VDC	13VAC	6.3VAC	0V	.1VDC	4.6VDC					
V 9	12SN7GT	-0.5VDC	18VDC	0V	.7VDC 45VDC	14VDC	0V	20VAC	6.3VAC				
V 10	25L6GT	0V	60VAC	93VDC	100VDC	0V	0V	87VAC	8.6VDC				
V 11	12SN7GT	-1.8VDC	13.5VDC	0V	1-.5VDC	182VDC	10V	35VAC	50VAC				
V 12	6SL7GT	-1.9VDC	*	0V	-1.2VDC	270VDC	0V	56VAC	50VAC				
V 13	12SN7GT	-47.5VDC -43.5VDC	155VDC 245VDC	1.9VDC	-57VDC -52VDC	-57VDC	17VDC	20VAC	35VAC				
V 14	25L6GT	0V	56VAC	245VDC	245VDC	0V	0V	85VAC	3.5VDC				
V 15	1B3GT	* DO NOT MEASURE.											
PINS		1	2	3	4	5	6	7	8	9	10	11	14
V16	7JP4	0V	2V 25VDC	0V	*	*	*	*	*	*	*	*	6.3VAC

† Measured From Pin 6 Of V11.  
\* Do Not Measure.

RESISTANCE READINGS

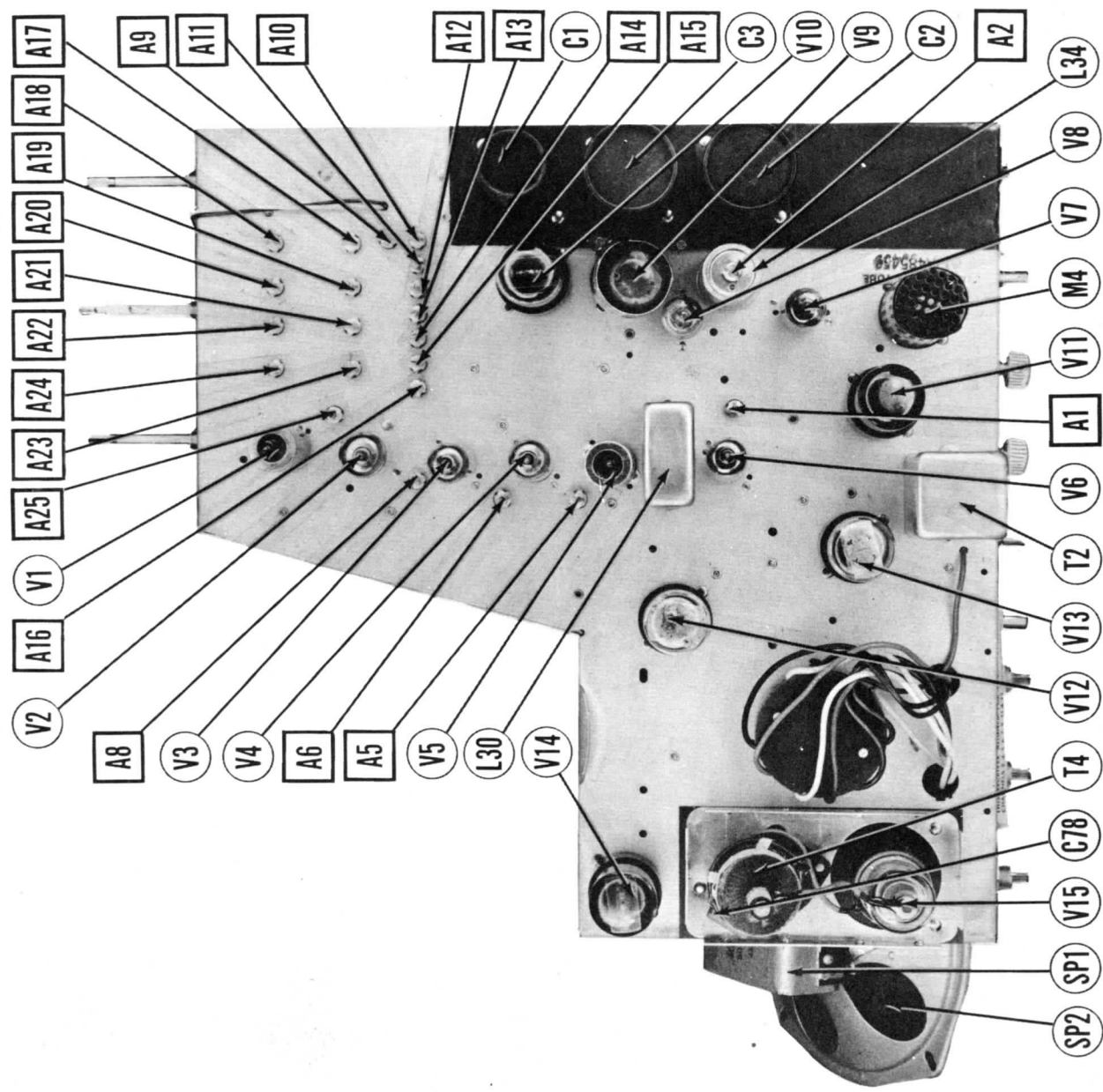
Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9			
V 1	6AG5	15KΩ	68Ω	26Ω	24Ω	11000Ω	11000Ω	68Ω					
V 2	12AT7	#1000Ω	33KΩ	2.7KΩ	21.5Ω	21.5Ω	#1.2KΩ	10KΩ	2.5Ω	24Ω			
V 3	6AG5	2 Meg.	56Ω	21.5Ω	19Ω	Inf.	Inf.	56Ω					
V 4	6AG5	4.7 Meg	Inf.	19Ω	16Ω	#5.5KΩ	#1.2KΩ	Inf.					
V 5	6AG5	11000Ω	11000Ω	15Ω	12Ω	#1.2KΩ	#1.2KΩ	11000Ω					
V 6	6AU6	1 Meg.	2KΩ	11.5Ω	7Ω	#11.5KΩ	#4.5KΩ	2KΩ					
V 7	6AU6	11Ω	1150Ω	27Ω	30Ω	#1.2KΩ	#1.2KΩ	1150Ω					
V 8	6AL5	6.8KΩ	6.8KΩ	7Ω	1Ω	1 Meg.	470KΩ	1 Meg.	1Ω				
V 9	12SN7GT	5 Meg.	#440KΩ	0Ω	8.3 Meg 3.3 Meg	#5.2Meg #2.2Meg	0Ω	11Ω	1Ω				
V 10	25L6GT	Inf.	30Ω	1240Ω	10Ω	470KΩ	Inf.	42Ω	330Ω				
V 11	12SN7GT	1 Meg.	1 1 Meg	0Ω	110KΩ	# 7KΩ	10Ω	17Ω	22Ω				
V 12	6SL7GT	10 Meg.	Inf.	0Ω	10 Meg.	Inf.	0Ω	25Ω	22Ω				
V 13	12SN7GT	18KΩ 6.2KΩ	#20KΩ #500Ω	200Ω	18KΩ 6.2KΩ	3.3KΩ	11Ω	17Ω					
V 14	25L6GT	Inf.	25Ω	#300Ω	#300Ω	150KΩ	0Ω	38Ω	100Ω				
V 15	1B3GT	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	TOP CAP #100Ω			
PINS		1	2	3	4	5	6	7	8	9	10	11	14
V16	7JP4	0Ω	#700KΩ 450KΩ	0Ω	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	1Ω

† Measured From Pin 6 Of V11.  
# Measured From Output Of M1.

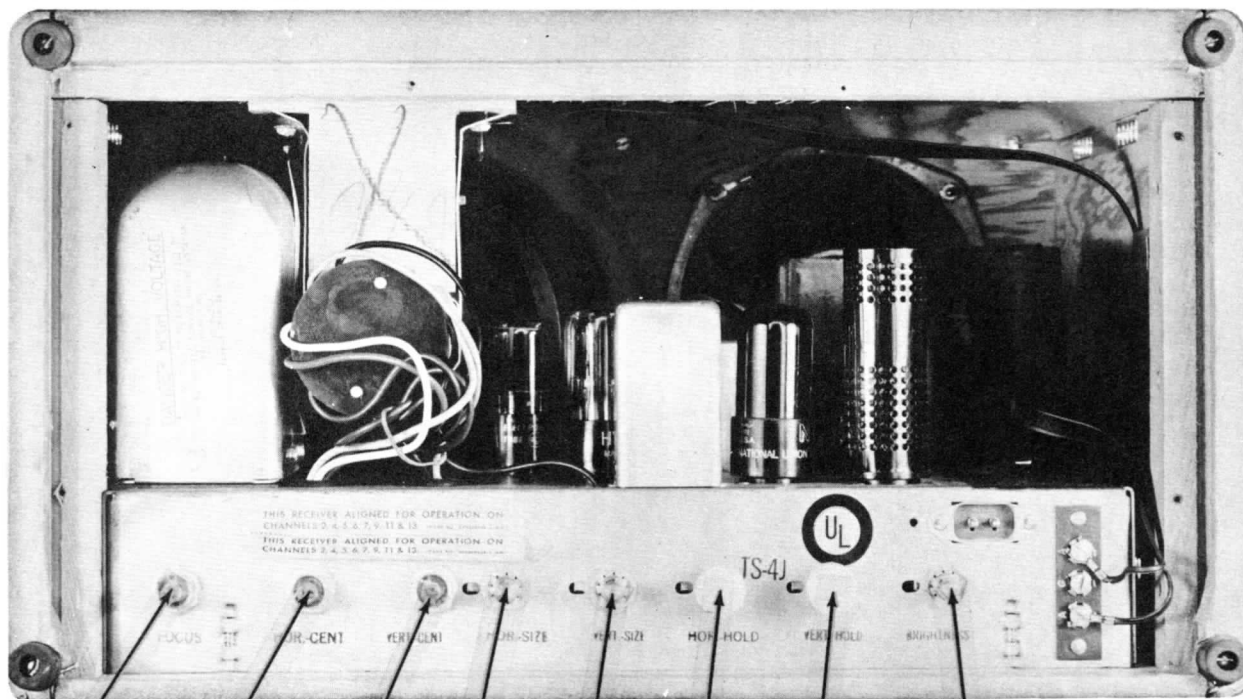
1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltage measured at 1,000 ohms.
2. Pin numbers are counted in a clockwise direction on bottom of socket.
3. Measured values are from socket pin to common negative unless otherwise stated.
4. Line voltage maintained at 117 volts for voltage readings.
5. Front panels controls set at minimum.
6. Where readings may vary according to the setting of the service controls, both minimum and maximum readings are given.



**MOTOROLA MODELS VT-73, VT-73A  
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CHASSIS TOP VIEW



FOCUS      HORIZ.      VERT.      WIDTH      HEIGHT      HORIZ.      VERT.      BRIGHTNESS  
                   CENT.      CENT.      CONT.      CONT.      HOLD      HOLD

## CABINET-REAR VIEW

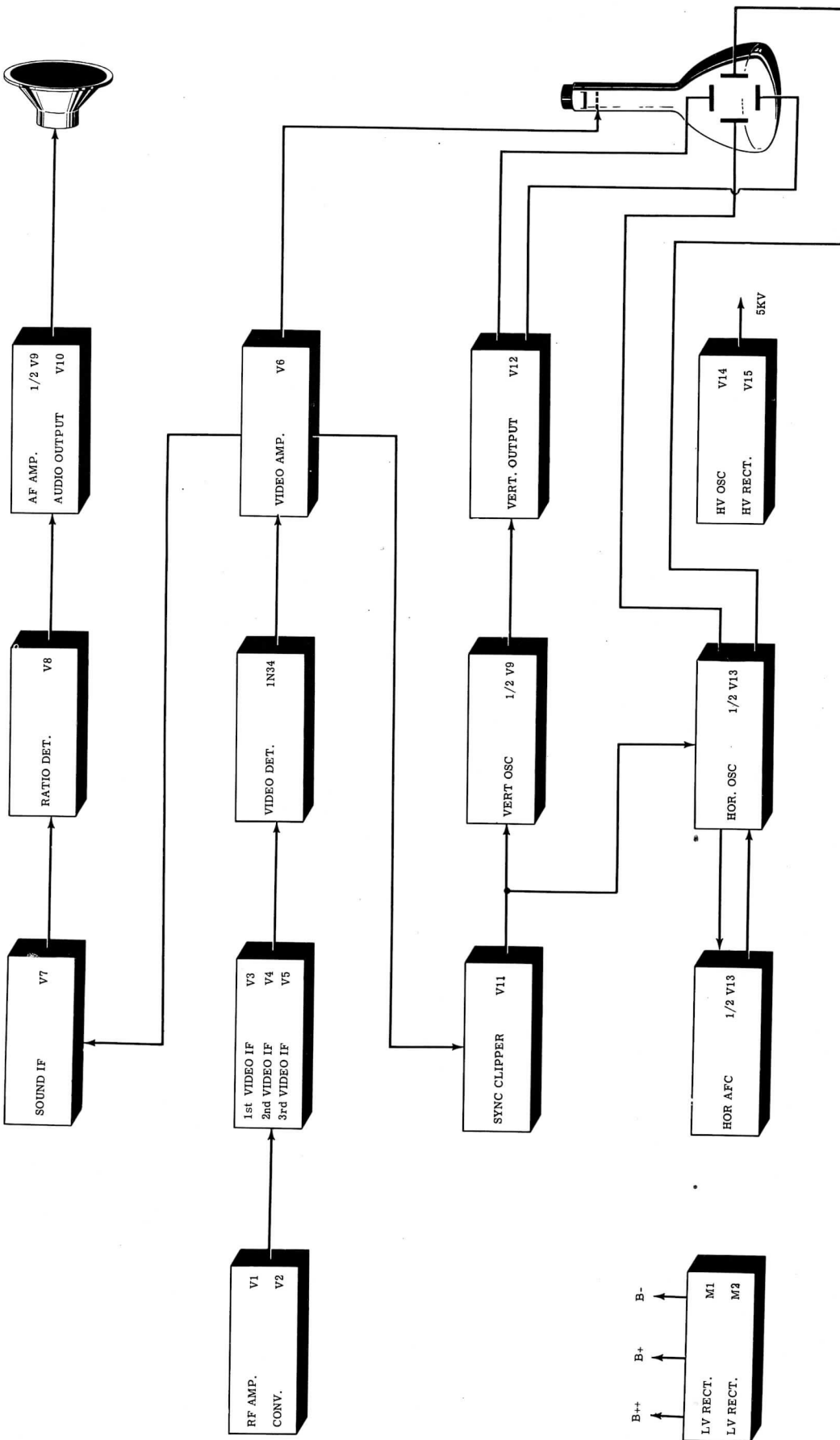
## DISASSEMBLY INSTRUCTIONS

1. Remove 6 screws holding back panel and power interlock and remove.
2. Remove push on type knobs and 2 felt washers on front of receiver.
3. Unplug speaker leads.
4. Remove picture tube socket.
5. Remove 4 chassis bolts from bottom of cabinet.
6. Slide chassis out rear of cab.
7. Remove 4 nuts and lock washers on speaker and remove.

## POSITIONING OF FEEDBACK SPRING ON H.V. RECTIFIER

Feedback to the grid of H. V. Oscillator tube is obtained by a capacitive coupling device consisting of a coil mounted around the envelope of the High Voltage rectifier tube. The position of this spring is very critical and misplacement will result in very low or no high voltage.

Two bottom edge of the spring should be  $\frac{3}{4} \pm \frac{1}{32}$ " from the top of the tube base.



MOTOROLA  
VT-73

## BLOCK DIAGRAM

**MOTOROLA MODELS VT-73, VT-73A**  
(Ch. TS-4J LATE)





**DESCRIPTIONS**

SPRAGUE PART No.	IDENTIFICATION CODES AND INSTALLATION NOTES
1FM-32	AFC Coupling
	Fixed Trimmer
TVM-216	Fixed Trimmer
TVM-216	Hor. Sweep Coupling
TM-15	Hor. Sweep Coupling
TM-1	RF Bypass
TVM-256	HV Filter
	Fixed Trimmer
1FM-21	RF Bypass
1FM-21	Filament Bypass
TM-15	Line Isolation

**RESISTORS (CONT.)**

ITEM No.	RATING		REPLACEMENT DATA		IDENTIFICATION CODES
	RESISTANCE	WATTS	MOTOROLA	IRC	
			PART No.	PART No.	
R69	4.7 Meg.	1/4	6R6446		Vert. Deflection Load
R70	4.7 Meg.	1/4	6R6446		" "
R71	4.7 Meg.	1/4	6R6446		Horiz. Deflection Load
R72	4.7 Meg.	1/4	6R6446		" "
R73	150K $\Omega$	1/4	6R6398	BTS-150K	HV Osc. Grid
R74	100 $\Omega$	1/4	6R6415	BW-1-100	HV Osc. Cathode
R75	33 $\Omega$	1/4	6R2036		Parasitic Suppressor
R76	100 $\Omega$	1/2	6R3963		HV Decoupling
R77	470K $\Omega$	1/4	6R6046	BTS-470K	Picture Tube Cathode
R78	100K $\Omega$	1/4	6R6031	BTS-100K	Voltage Divider
R79	2.7 Meg.	1/4	6R488057		" "
R80	2.7 Meg.	1/4	6R488057		" "
R81	2.2 Meg.	1/4	6R2011		" "
R82	2.2 Meg.	1/4	6R2011		" "
R83	470K $\Omega$	1/4	6R6377	BTS-470K	Isolation
R84	470K $\Omega$	1/4	6R6377	BTS-470K	" "

Note. Some models use 82 $\Omega$  resistor in this application.

**TRANSFORMER (SWEEP CIRCUITS)**

ITEM No.	RATING		REPLACEMENT DATA				NOTES
	DC RESISTANCE	PRI. SEC.	MOTOROLA	STANCOR	CHICAGO	MERIT	
			PART No.	PART No.	PART No.	PART No.	
T1	55 $\Omega$	180 $\Omega$	24B480209				AFC Coupling Trans.
T2	60 $\Omega$	170 $\Omega$	24B480209				Hor. Block Osc. Trans.
T3A	255 $\Omega$		25B484819				Hor. Output Trans.
T3B	200 $\Omega$		25B90138				" " " (Alt.)

**TRANSFORMER (H.V.) OSC.**

ITEM No.	RATING		REPLACEMENT DATA				NOTES
	DC RESISTANCE	PRI. SEC.	MOTOROLA	STANCOR	CHICAGO	MERIT	
			PART No.	PART No.	PART No.	PART No.	
T4	870 $\Omega$ Tap @ 4.5 $\Omega$	0 $\Omega$	1X471212				

**TRANSFORMER (AUDIO OUTPUT)**

ITEM No.	RATING				REPLACEMENT DATA				INSTALLATION NOTES
	IMPEDANCE		DC RES.		MOTOROLA	STANCOR	CHICAGO	MERIT	
	PRI.	SEC.	PRI.	SEC.	PART No.	PART No.	PART No.	PART No.	
T5	2300 $\Omega$	3.3 $\Omega$	245 $\Omega$	.8 $\Omega$	25K470392	A-3876	RO-2	A-2928	

**COILS (RF-IF)**

ITEM No.	USE	DC RES.		REPLACEMENT DATA		NOTES
		PRI.	SEC.	MOTOROLA	MEISSNER	
				PART No.	PART No.	
L1	Ant. Input	0 $\Omega$		24A482232		
L2	Ant. Coil	0 $\Omega$		24K484872		Channels 2 and 3. Less Core.
L3	Ant. Coil	0 $\Omega$		24K478293		Channel 4. Less Core
L4	Ant. Coil	0 $\Omega$		24K478294		Channel 5. Less Core
L5	Ant. Coil	0 $\Omega$		24K478294		Channel 6. Less Core
L6	Ant. Coil	0 $\Omega$		24A471374		Channel 7. Loop of #18 Bare Wire
L7	Ant. Coil	0 $\Omega$		24A471374		Channels 8 and 9. Loop of #18 Bare Wire
L8	Ant. Coil	0 $\Omega$		24A471374		Channels 10 & 11. Loop of #18 Bare Wire
L9	RF Coil	0 $\Omega$		24K484873		Channels 2 & 3. Less Core
L10	RF Coil	0 $\Omega$		24K478292		Channel 4. Less Core
L11	RF Coil	0 $\Omega$		24K90185		Channel 5. Less Core
L12	RF Coil	0 $\Omega$		24K90185		Channel 6. Less Core
L13	RF Coil	0 $\Omega$		24A471373		Channel 7. Loop of #18 Bare Wire
L14	RF Coil	0 $\Omega$		24A471373		Channels 8 & 9. Loop of #18 Bare Wire
L15	RF Coil	0 $\Omega$		24A471373		Channels 10 & 11. Loop of #18 Bare Wire
L16	RF Coil	0 $\Omega$		24A780142		Channels 12 & 13. Less Form and Core
L17	Osc. Coil	0 $\Omega$		24K484874		Channels 2 & 3. Less Core
L18	Osc. Coil	0 $\Omega$		24K489003		Channel 4. Less Core
L19	Osc. Coil	0 $\Omega$		24K489004		Channel 5. Less Core
L20	Osc. Coil	0 $\Omega$		24K489004		Channel 6. Less Core
L21	Osc. Coil	0 $\Omega$		24A489188		Channel 7. Less Core and Form
L22	Osc. Coil	0 $\Omega$		24A485442		Channels 8 & 9. Less Core and Form
L23	Osc. Coil	0 $\Omega$		24A489067		Channels 10 & 11. Less Core and Form
L24	Osc. Coil	0 $\Omega$		24A485443		Channels 12 & 13. Less Core and Form
L25	RF Choke	.1 $\Omega$		24A90064		1 Microhenry
L26	RF Choke	2.5 $\Omega$		24A90193		2 Microhenries
L27	1st Video					
L28	2nd Video	.5 $\Omega$	.4 $\Omega$	24B90192		Less Core
L29	3rd Video	.1 $\Omega$		24A90197		Less Core
L30A	4th Video	.1 $\Omega$		24A90197		Less Core
L30B	RF Choke			24A470314		Less Core. Part of Video Detector.
L30C	RF Choke			24A90169		Part of Video Detector.
L31	Peaking	11 $\Omega$		24A780602		" " " "
L32	Peaking	14 $\Omega$		24A780601		Wound on 18K $\Omega$ resistor.
L33	Sound IF	1 $\Omega$		24A470159		
L34	Ratio Det. Trans.	3 $\Omega$	.4 $\Omega$	24B470316		
L35	Fil. Choke	1 $\Omega$		24A90064		1 Microhenry
L36	Fil. Choke	1 $\Omega$		24A90064		1 Microhenry
L37	Fil. Choke	1 $\Omega$		24A90064		1 Microhenry

**INSTALLATION NOTES**

Control to RLA Per Instructions  
 to RLA Per Instructions  
 Control, Tapped @ 1000 $\Omega$  & 1500 $\Omega$   
 Control  
 Control  
 Control  
 Control  
 Control  
 Control, Tapped @ 1 Meg.  
 Control, Tapped @ 400K $\Omega$  & 1 Meg.  
 Control

Control, no additional shaft is  
 low tongue of insulator shaft to be

**IDENTIFICATION CODES**

RESISTORS ARE  $\pm$  10% UNLESS OTHERWISE STATED.

Transformer Shunt  
 Cathode  
 Plate  
 Cathode  
 Plate  
 Decoupling  
 Grid  
 Cathode  
 Decoupling  
 Grid  
 Plate  
 Cathode See Note  
 Decoupling  
 Diode Load  
 Grid  
 Plate  
 Grid  
 Plate  
 Grid  
 Plate  
 Wider  
 Transformer Shunt  
 Grid  
 Filter Network  
 Transformer Shunt  
 Cathode

**MOTOROLA MODELS VT-73, VT-73A (Ch. TS-4J LATE)**

# PARTS LIST AND DESCRIPTIONS (Continued)

## SPEAKER

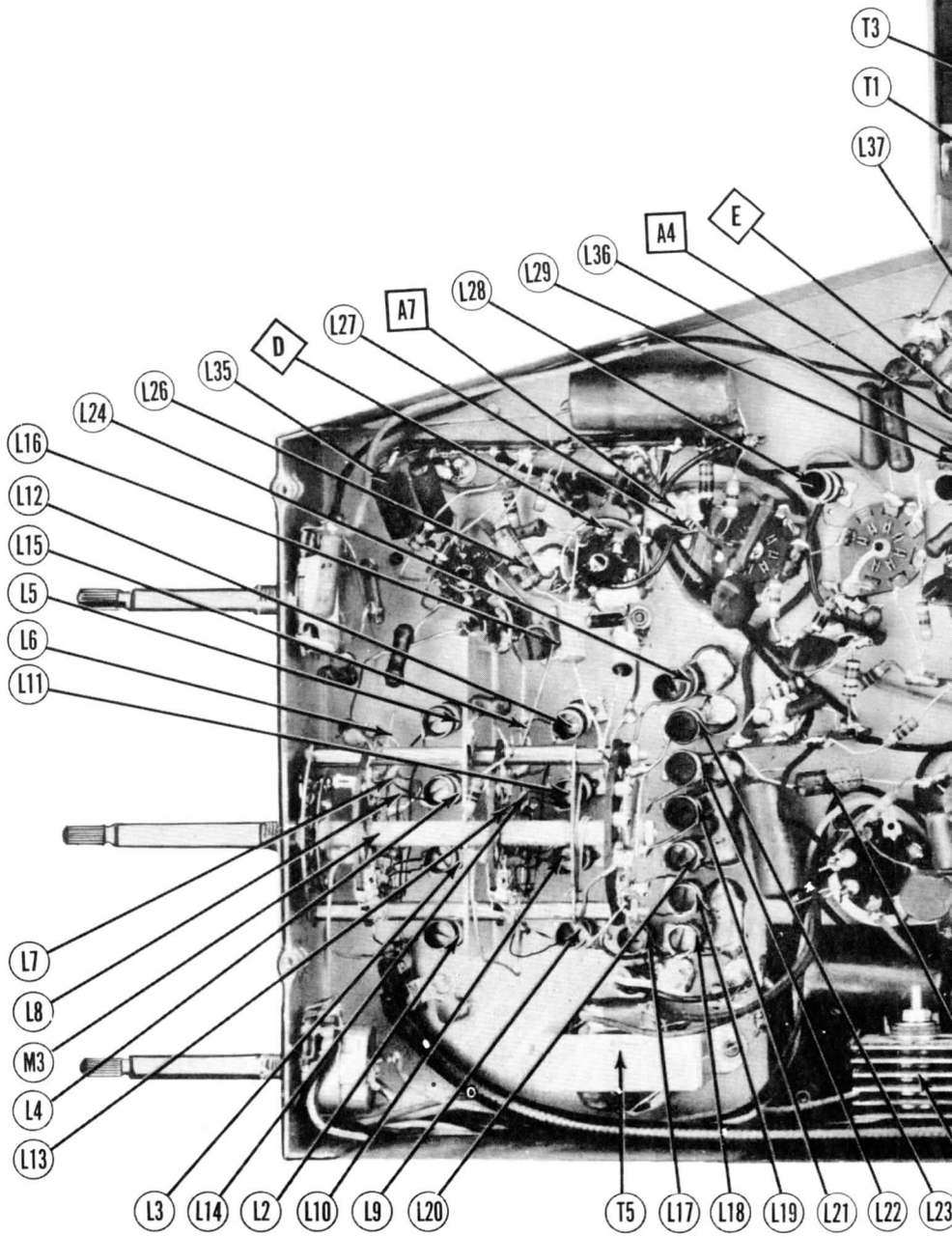
ITEM No.	RATING		REPLACEMENT DATA			NOTES
	FIELD RES.	V. C. IMP.	MOTOROLA	JENSEN	QUAM	
			PART No.	PART No.	PART No.	
SP1	PM	3.3Ω	50B471219	ST-110 MOD.P6-V	6A15	
SP2	CONE DIA.	V. C. DIA.				
	5 7/8"	3/4"				

## SELENIUM RECTIFIER

ITEM No.	RATING	REPLACEMENT DATA			NOTES
	CURRENT	MOTOROLA PART No.			
M1	.108A	48B470395 †			† Alternate Part # 48B471350
M2	.108A	48B470395 †			

## MISCELLANEOUS

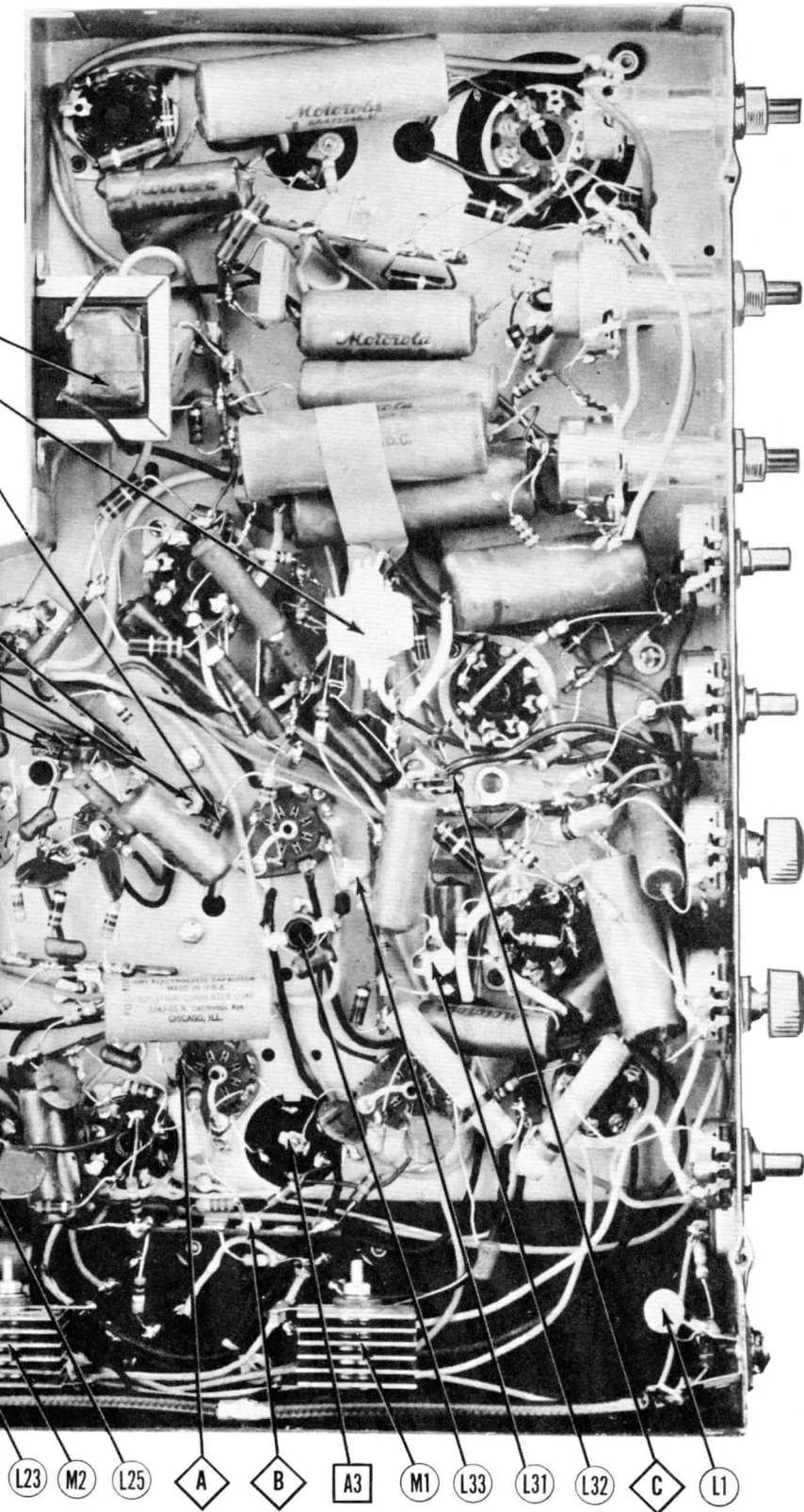
ITEM No.	PART NAME	MOTOROLA PART No.	NOTES
M3A	Channel Selector SW.	1X471377	3 Section, with shield plate and RF and Ant. Coil Loops.
B	Channel Selector SW.	1X489168	3 Section, with shield plate, RF and Ant. Coil Loops, and Osc. trimmer.
M4	Ballast Tube	17A485459	Video Detector Sylvania 1N34
	Crystal	48A90173	Iron and Screw L34 secondary
	Core	46A470302	Iron and Screw L34 primary
	Core	46A70023	Iron and Screw L29, L30A, L33 and Top of L27
	Core	46A470310	Iron and Screw Bottom of L27
	Core	46K480256	Brass and Screw Ant. RF and Osc. Coils
	Core	46A478242	L21, L22, L23 and L24.
	Coil Form	14K485465	Includes L30B, L30C, M3, 6800Ω resistor, 330Ω resistor and 8M $\mu$ F, 100M $\mu$ F and 15M $\mu$ F capacitors.
	Detector Ass'y.	1X482133	
	Cabinet	16F780450	



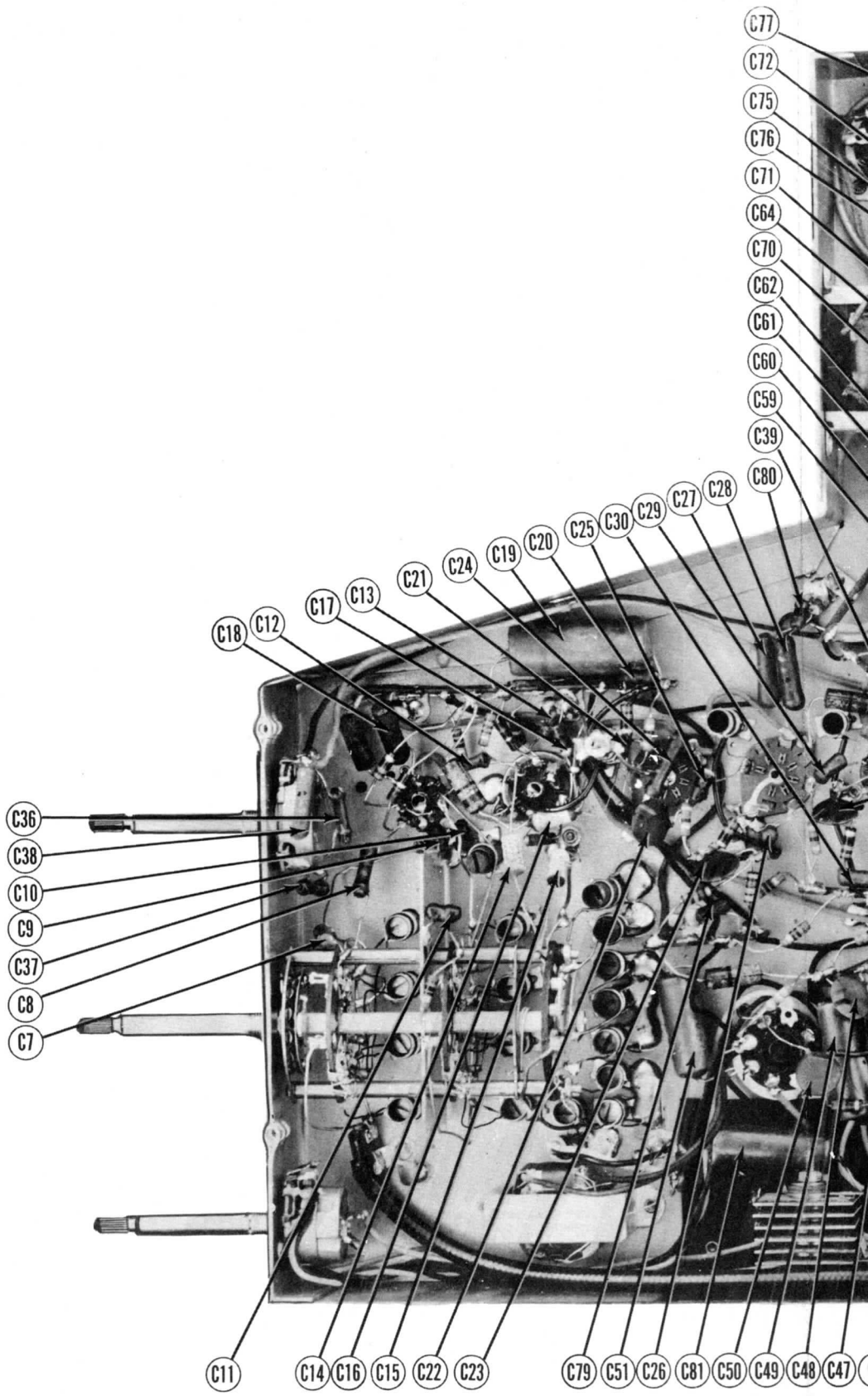
CHASSIS BOTTOM VIEW-TRANS., INDUCTO



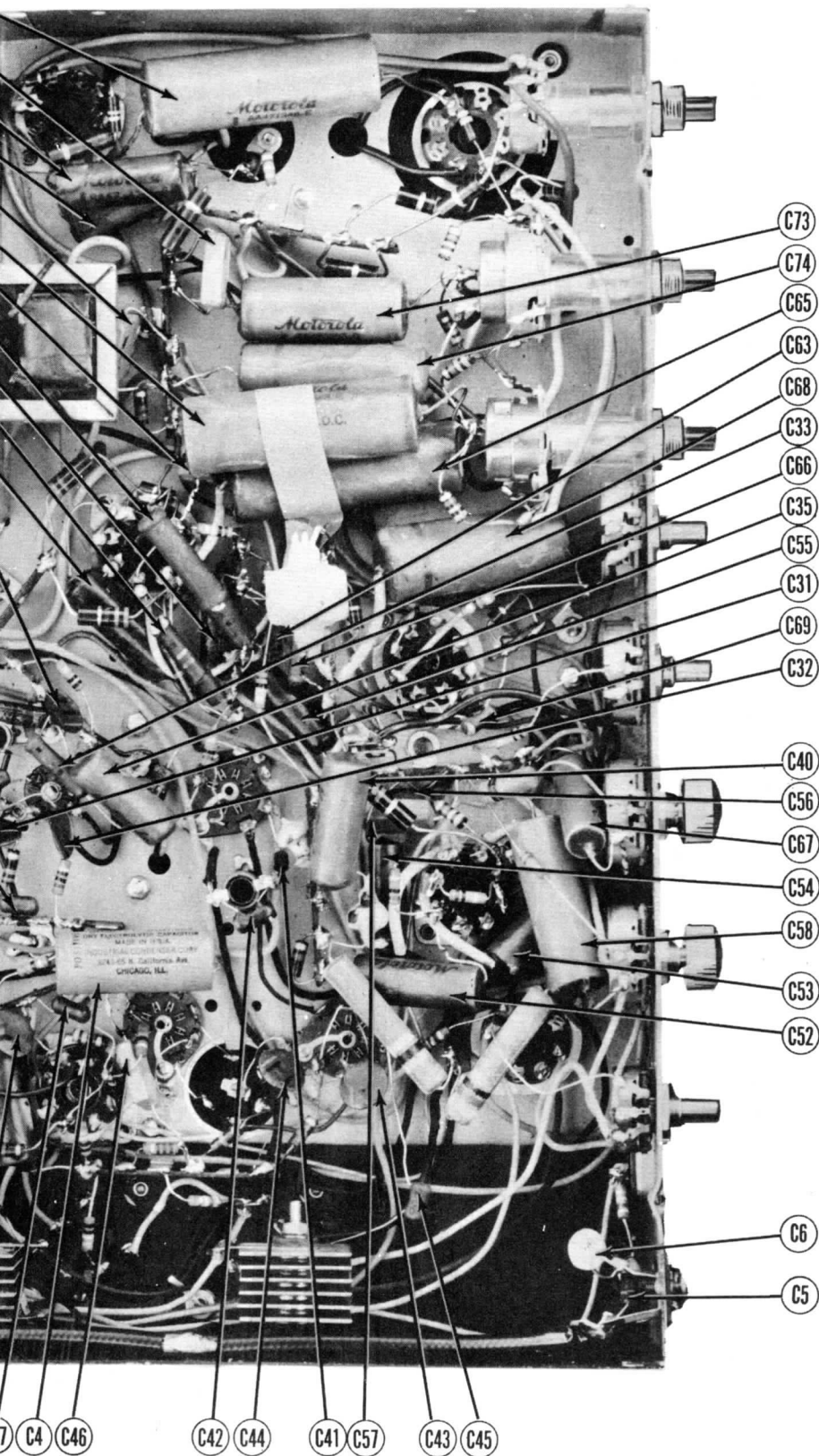
MOTOROLA MODELS VT-73, VT-73A  
(Ch. TS-4J LATE)



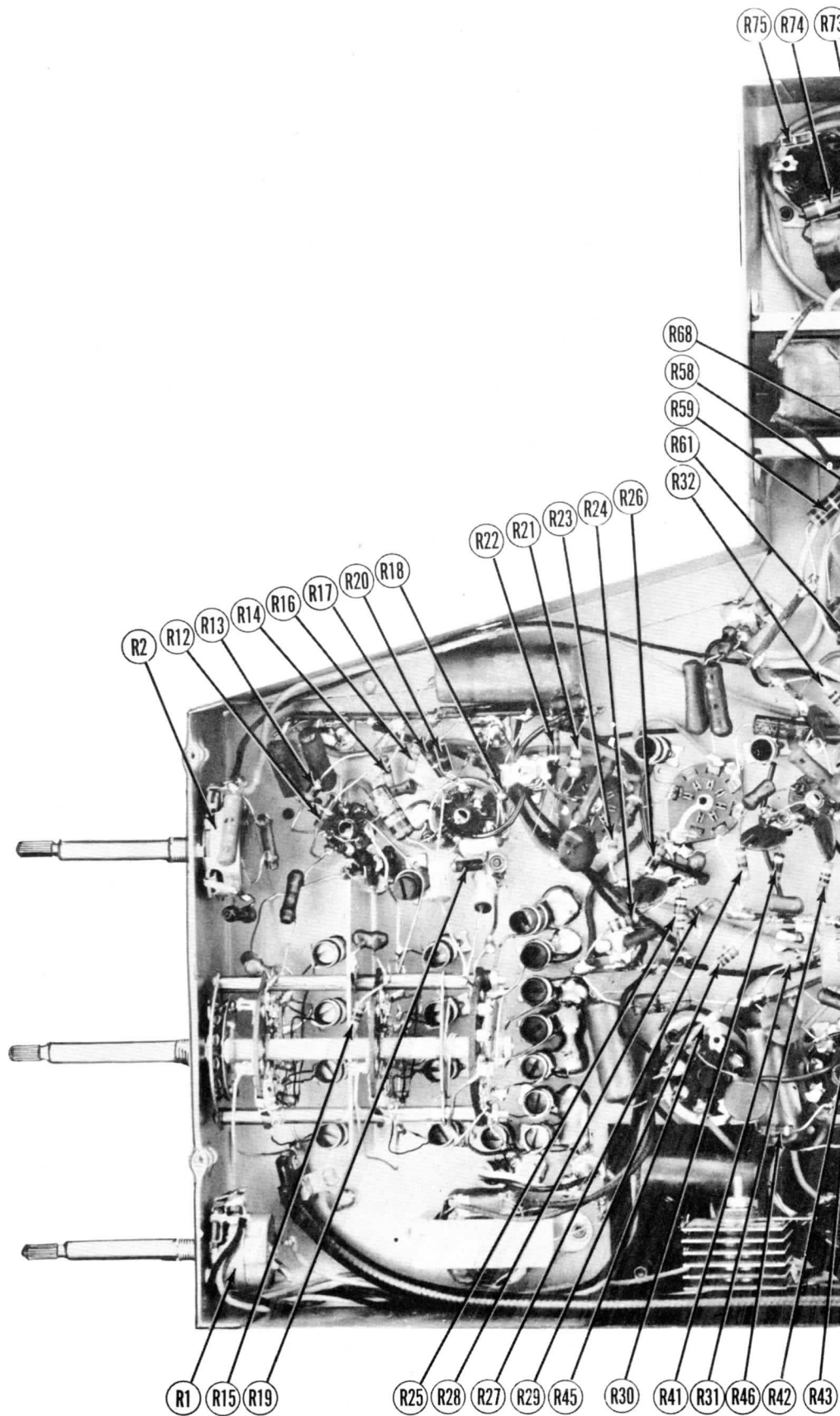
TOR AND ALIGNMENT IDENTIFICATION



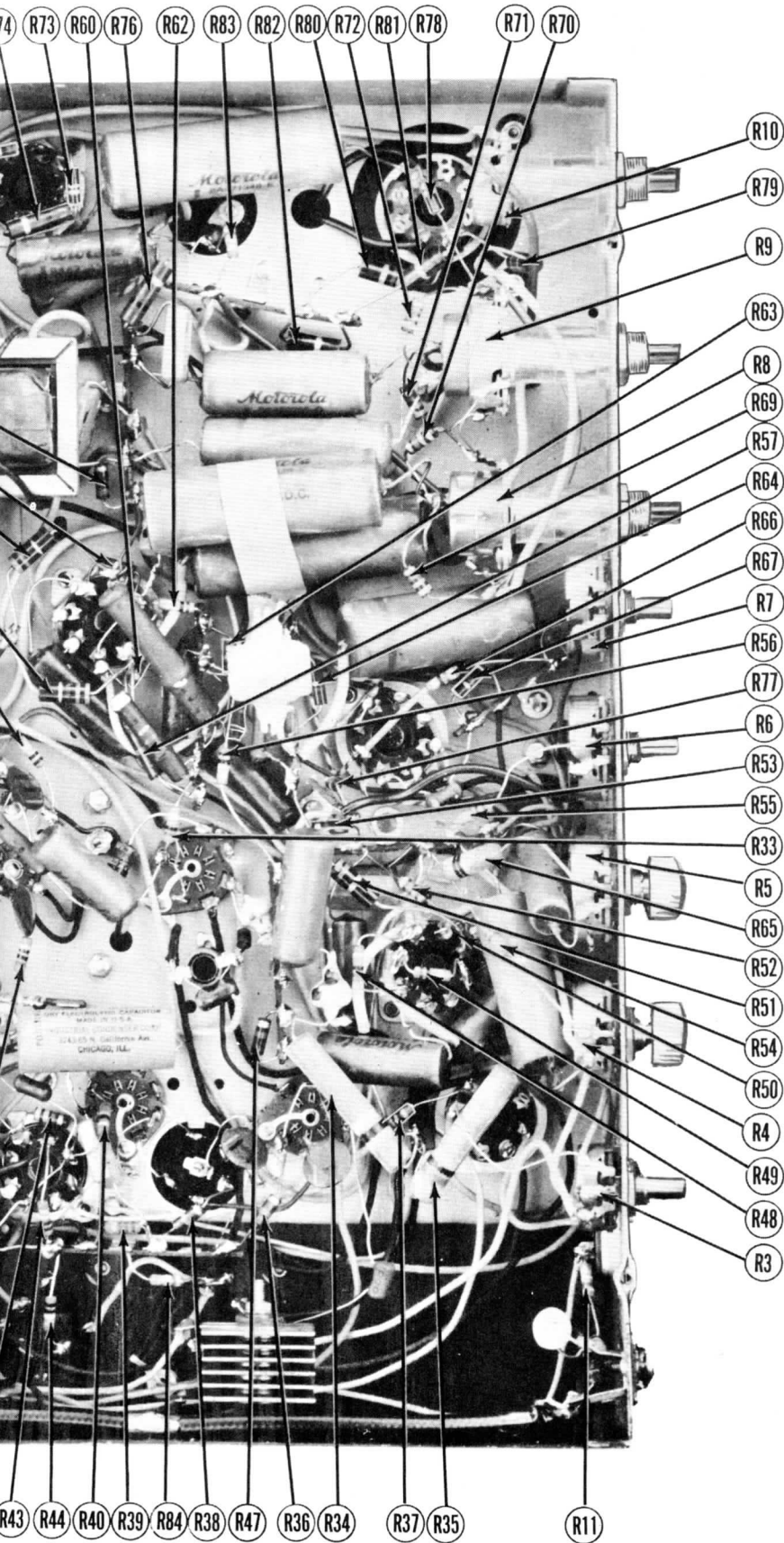
CHASSIS BOTTOM VIEW-CAP



PACITOR IDENTIFICATION



CHASSIS BOTTOM VIEW-RES



**MOTOROLA MODELS VT-73, VT-73A  
(Ch. TS-4J LATE)**

**RESISTOR IDENTIFICATION**