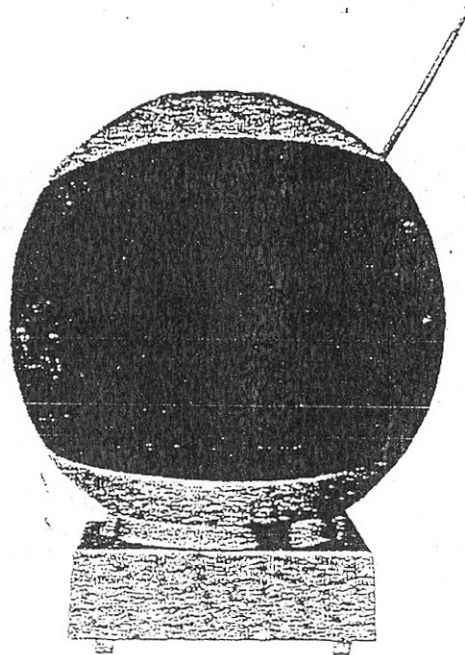


JVC

No. 3101

SERVICE MANUAL



MODEL 3240

B/W PORTABLE TELEVISION RECEIVER

DIMENSIONS: 11.25"O, 2^{53/64}"H (Base), 7^{3/8}"D (Base) WEIGHT: 11.5 lbs

SPECIFICATIONS

Receiving Channel :	Channels 2 thru 13 VHF, 14 thru 83 UHF, American standard
Antenna VHF : UHF :	Built in monopole antenna or external antenna
Antenna Input Impedance :	Loop antenna or external antenna
Power Input Rating :	Balanced 300Ω (Both VHF and UHF)
Power Consumption :	120V 60Hz A. C. or 12V D. C.
Fuse Device : Speaker :	120V 60Hz 21W, 12V D. C. 11W
Audio Power Output :	0: 75A pig tail type and 1. 2A slow blow type
Picture Tube :	3" Round type, voice coil impedance 16Ω
Transistors : Diodes :	500mW
Cabinet :	9 inch 90° deflection aluminized 25pcs 17pcs Plastics

LIMITED.

VICTOR COMPANY OF JAPAN,

SCANNED BY THYDZIK

SERVICING IN THE FIELD

CLEANING THE CABINET

Clean the external appearance of cabinet body and the stand when necessary, using a clean soft cloth with mild soap. Don't use any solution which contains benzen or petroleum.

RASTER CENTERING

The centering device is 2 magnetic rings located on yoke rear cover. By alternately rotating those 2 magnetic rings, the picture may be properly centered on the screen.

DEFLECTION YOKE ADJUSTMENT

If the lines of the raster are not horizontal or corner shadows appear, loosen the yoke clamp screw and rotate deflection yoke, pushing yoke snug up against bell of picture tube.

VERTICAL HEIGHT AND VERTICAL LINEARITY ADJUSTMENTS

When the upper or lower part of picture extends or shrinks, adjust the Vertical Height and Vertical Linearity controls alternately to fill the screen $1/8$ inch beyond the mask until the picture on test pattern is symmetrical from top to Bottom, the Height control extends (or shrinks) mainly a lower part of raster, and the ideality control a upper part.

B VOLTAGE (12V) ADJUSTMENT

Be sure to maintain at 120V, 60Hz power supply.
Then adjust the 12V control (R510) at D. C. 12volts on B line.

AGC ADJUSTMENT

Adjust the AGC control when picture is a very, slight bend at it's top, or excessive snow.
AGC may be adjusted by tuning control fully counter-clockwise then clockwise until there is a very slight bend, then turn control counter-clockwise just sufficiently to remove the bend.

DISASSEMBLY INSTRUCTION

REAR COVER REMOVAL

1. Remove 2 screws on rear cover (Fig. 1) and 5 screws fastening the edge of rear cover (Fig. 2).
2. Pulling a rear cover a little, disconnect two transmitting leads connected to antenna terminals and speaker leads in rear cover.

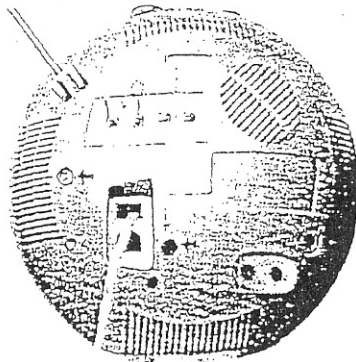


Fig. 1

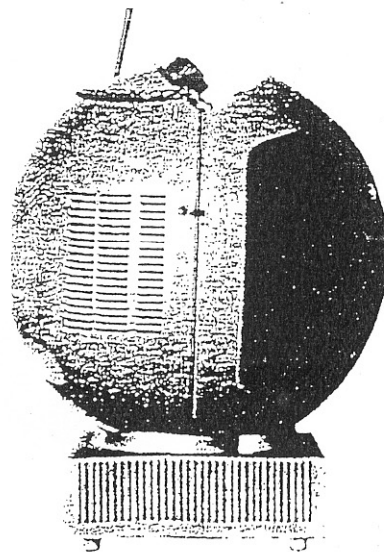


Fig. 2

TUNER REMOVAL

TUNER REMOVAL

1. Remove rear cover. refer to "Rear Cover Removal".
2. Remove VHF and UHF selector knobs and VHF and UHF fine tuning knobs.
3. Remove 3 arrow head screws indicated in Fig. 3.

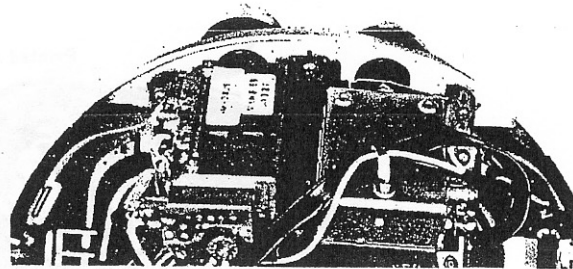


Fig. 3

FRONT PANEL REMOVAL

All parts except tuner bracket in a front panel (namely a body) are fastened up CRT holder or utilizing it. and so, it can removed all parts from body by removing a tuner bracket and CRT holder.

1. Remove rear cover. refer to "Rear Cover Removal".
2. Remove tuner bracket. refer to "Tuner Removal".
3. Remove 4 screws fastening CRT holder (Fig. 5). Take out the all parts contained CRT with both hands by having the CRT face all together from the Printed Circuit Board on right hand and the heat sink board on left hand. Fig. 4 is the photo removed all parts from front panel.

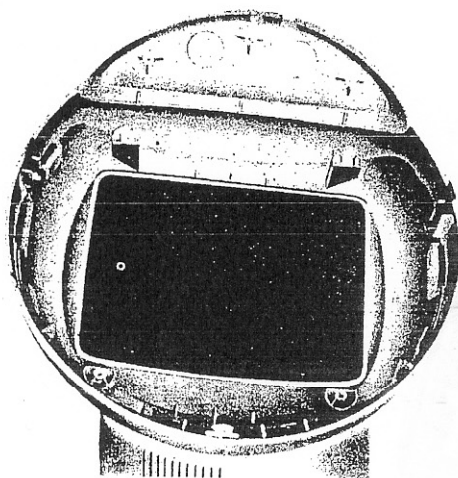


Fig. 4

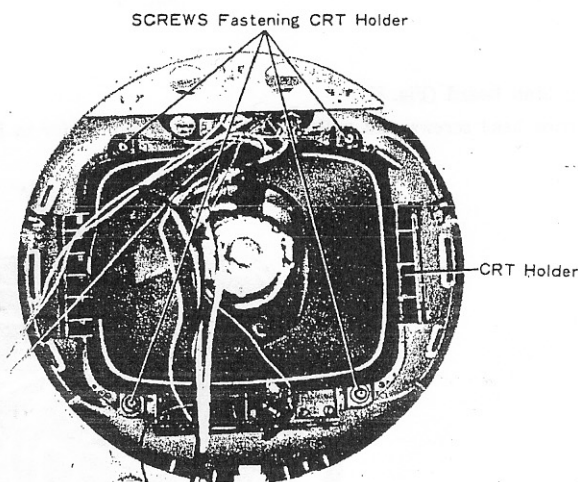


Fig. 5

PRINTED CIRCUIT BOARD AND HEAT SINK BOARD REMOVAL

1. Remove rear cover. refer to "Rear Cover Removal"
2. In case of Printed Circuit Board A (Fig. 6). Disconnect a spring and two arrow head Terminal Boards indicated in Fig. 6. and pull off Printed Circuit Board.

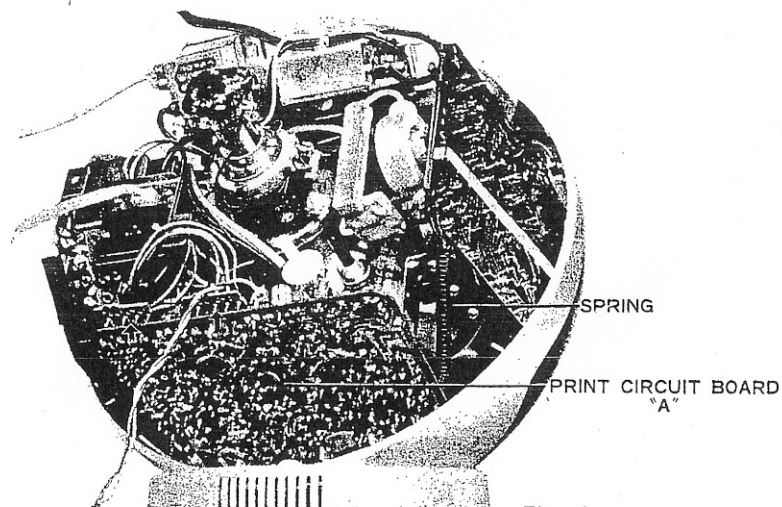


Fig. 6

In case of Printed Circuit Board B (Fig. 7).

Remove an arrow head screw and disconnect two springs indicated in Fig. 7. and pull off Printed Circuit Board.

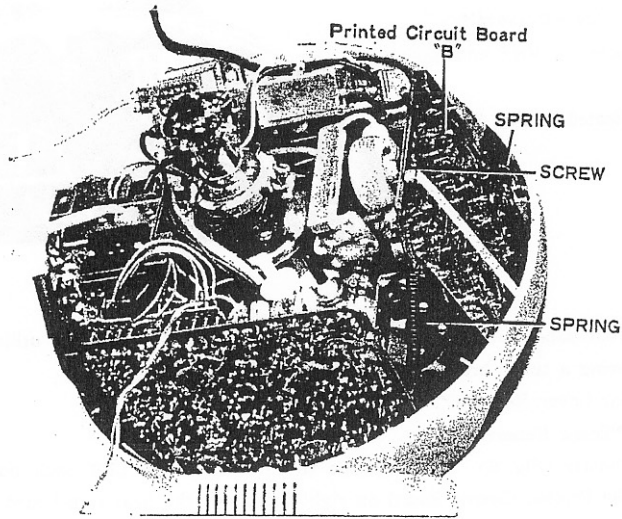


Fig. 7

In case of Heat Sink Board (Fig. 8).

Remove two arrow head screws, and pull off Heat Sink Board. refer to Fig. 8.

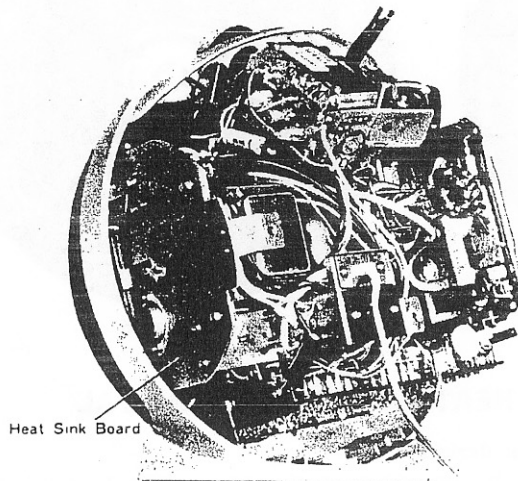


Fig. 8

CRT REMOVAL

Refer to "Front Panel Removal"

Refer to "Front Panel Removal" **ALIGNMENT**

1 PIX IF ALIGNMENT

Feed DC 3V to TP-3

Step	Sweep Generator Coupling to	Oscilloscope Coupling to	Marker Generator Frequency	Marker Position	Adjustment	Wave Form
1	TP-2	TP-4	45.75 MHz	70±10%	T101.102	Fig. 9
			44.0 MHz	Center	L105	
			42.25 MHz	70 ±10%		
2	TP-1	TP-4	47.25 MHz	MIN	L102	Fig. 10
			41.25 MHz	MIN	L103	
			45.75 MHz	35~40%	L63, L101,	
			44.0 MHz	Center	L104	
			42.25 MHz	25-60%		
REMARK	Through 0.002μF capacitor	Through 15KΩ resistor				

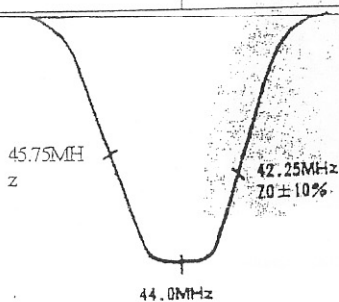


Fig. 9

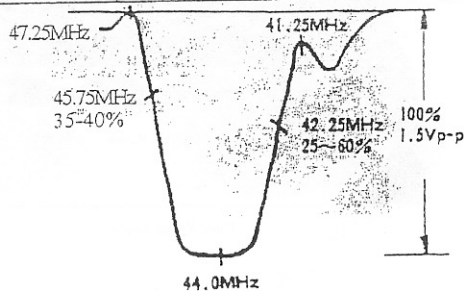


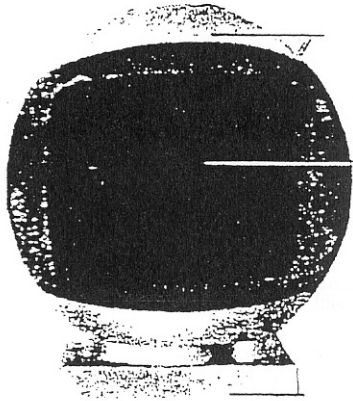
Fig. 10

2 SOUND IF ALIGNMENT

Step	Place to be connected to oscillator out-put	Oscillator output	Place to be connected to DC probe of V. T. V. M.	Adjustment	V. T. V. M. reading
1	TP-4	4.5MHz	TP-5	T103, 201	Maximum
2	"	"	TP-6	T202	Zero
REMARK	Through 0.01μF capacitor	AM modulation			

MECHANICAL PART'S DIAGRAM

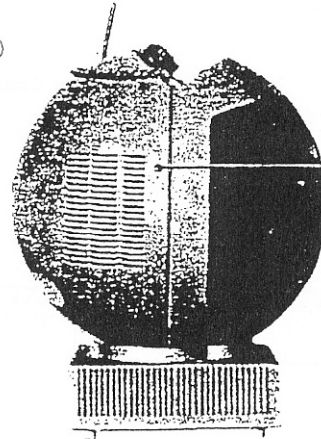
(Replacement Service Parts)



Q

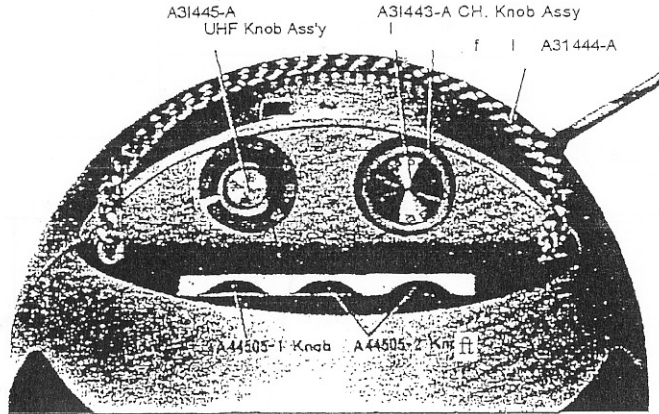
Fig. 11

- Z2147-001 Rod Antenna
- A10227-AS Front Panel (Ivory)
 - " -BS (Black)
 - " -CS (Red-orange)
- A20684-001 Stand (Ivory)
 - " 002 (Black)
 - 003 (Red-orange)
- A10229 Protector glass



SHSA3010R Tap Screw

Fig. 12



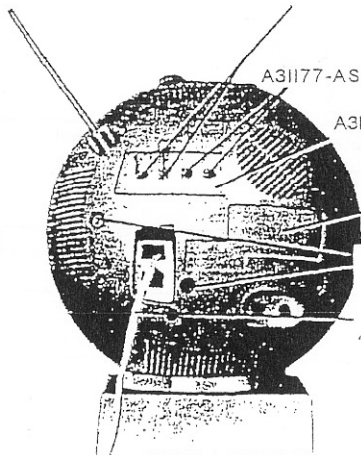
A31445-A UHF Knob Ass'y A31443-A CH. Knob Assy A31444-A

A44505-1 Knob A44505-2 Knob

Fine Knob Ass'y

A31465 Handle

Fig. 13



A31177-AS

A31449-1 Antenna Terminal (Ivory)

- " -2 (Black)
- " -3 (Red-orange)

A10228-1 Rear Cover (Ivory)

- (Black)
- " 3 (Red-orange)

SBSB4010Z Tap Screw

000000 41037-2 Lug

41037-2 Lug

MECHANICAL PARTS DIAGRAM

(Replacement Service Parts)

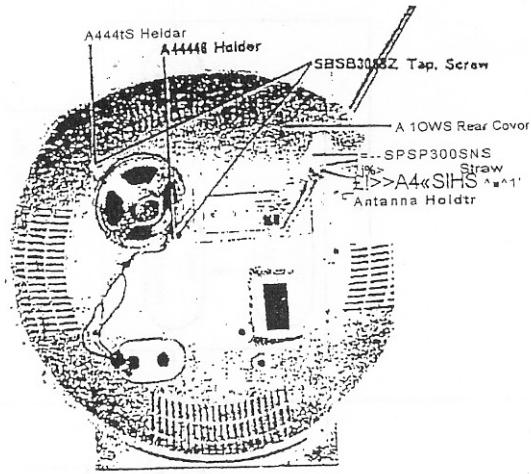


Fig. 15

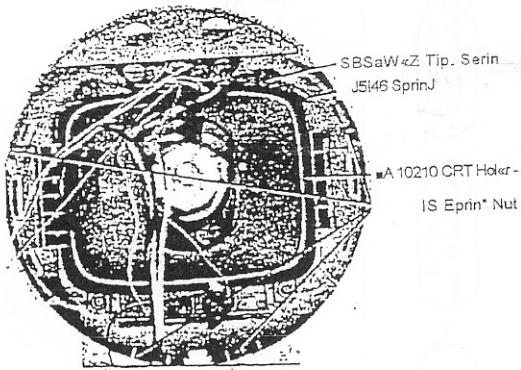


Fig. 16

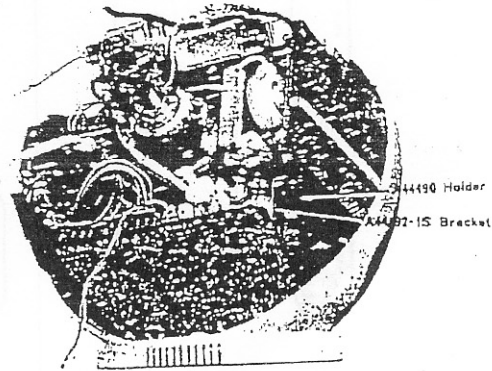
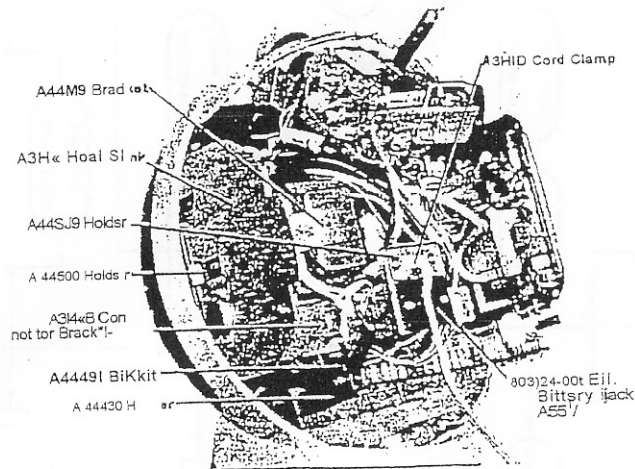
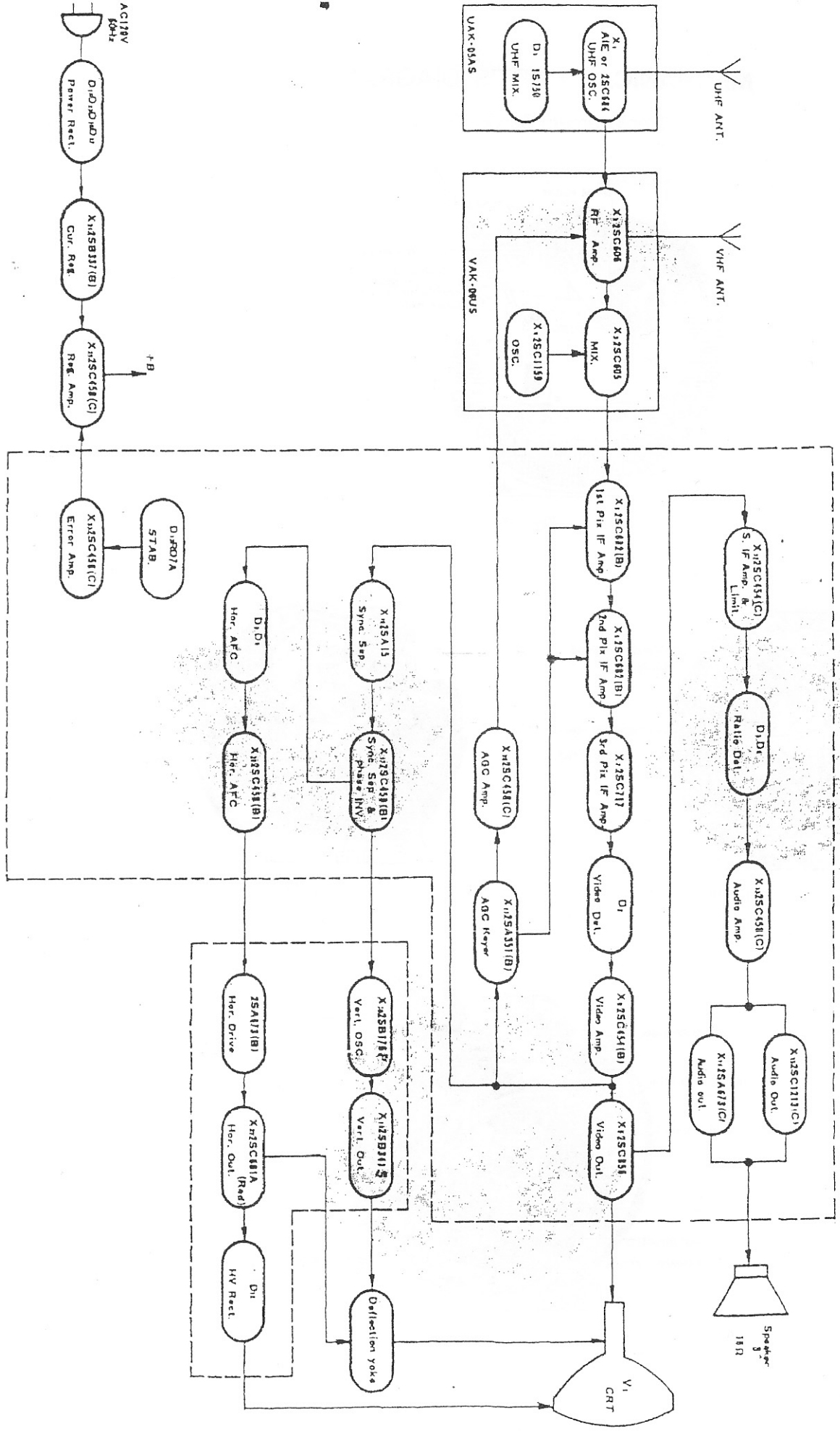


Fig. 17





Electronic Parts List

(Replacement Service Parts)

Part No.	Part's Name	Symbol No.	Part's No.	Part's No.	Symbol No.
Transistors & Diodes			A44S34-A	"	T102
2SC387	Transistor	X1	A43552-A	Sound IF Trans. Ass'y	T103
2SC606	"	X2	A31101-A	Ratio Trans, Ass'y	T201,202
2SC605	"	X3	A42131-A	Hor. Drive trans, Ass'y	T402
2SC1159	"	X4	A31478-A	HV Trans, Ass'y	T403, D12
2SC682(B)	" "	X5,6	Socket; (Connectors)		
2SC717	"	X7	Q03940-1	Ear. Jack Ass'y	"
2SC454(B)	"	X8	A31177-A	Terminal	P3.4
2SC856	"	X9	Q03924-001	Ext Battery Jack	J2
2SC458(C)	"	X10,13,23	A44397-B	CRT Socket Ass'y	V1
2SA351(B)	"	X11	Variable Resistors		
2SC454(C)	"	X12	Q04832-010	V. Resistor (SW-VOL)	R222,S501,L50
2SA673(C) Pair	"	X14	Q04828-003	" (CONT)	R157
2SC1213(C)	"	X15	Q04836-003	" (BRIGHT)	R158
2SA15	"	X16	Q04843-3	" (AGC. HEIGHT)	R144,32S
2SC458(B)	"	X17,20	" -2	" (12V ADJ.)	R510
2SB176⊕	"	X18	Q04871-1	" (V. LIN.)	R319
2SB341V⊕	"	X19	Q04832-011	" (V. HOLD)	R316
2SA673(B)	"	X21	Resistors (Power & Special)		
2SC681A(RE.D)	"	X22	Q04784-22	Wire Wound Resistor	8503,504
2SB337(B)	"	X24	Q04772-150	Oxide Metal Resistor	RS02
2SC458(C)	"	X23,25	A03008-5	CR Block	R207,208
1S750	Diode	D1	Q04761-0.25	Wire Wound Resistor	C206,207,208
1N60	"	D2	A04292-4	Negative Thermistor	R414
HV23F	"	D3	A04292-5	"	R215,320
1N34A	"	D4,8,9	Electrolytic Capacitors		
1N60(Pair)	"	D5,6	Q03107-200	Elect Capacitor	C602
A04093-X	"	D7	Q03105-30	"	C603
A04230-A	"	D10	Q03582-11	"	C501
A04241-A	"	D11	Q03104-30	"	C144,213
A04332-007	"	D13	" -100	"	C127,135
A04331-021	"	D14,15,16,17	Q03106-10	"	C209
C R T			" -200	"	C217
230ACB4	CRT	V1	Q03122-220	"	C308,309
Coils : & Transformers			Q03108-10	"	C214
A31477-AZS	Def. Yoke Ass'y	L102	" -30	"	C132,141,215
A44529-A	Trap Coil Ass'y	L103	" -100	"	C303,408,507
A44530-A	"	L104	" -200	"	C218,414
A04317-B	Hor. OSC. Coil Ass'y	T401	" -500.	"	C314
A44383-B	Vert. Out. Coil Ass'y	L301	" -1000	"	CS06
A42079	Choke Coil	L401	Q03110-3	"	C143,216,304
A04282-90	Peaking Coil	L106,108	" -5	"	-C142,403
A04096-22	"	L107	Q03112-0.5	"	C306
" -330	"	L109	" -1	"	C139,302,412
A44499-00D	M, Trans Ass'y	T601	Q03152-1	"	C415,416
A43702-E	Power Trans Ass'y	T501	" -5	"	C137,138,313
A44S28-A	Pix IF Trans Ass'y	L101	A03054-655	N. P. Elect Capacitor	C417
A44531-A	"	L104			
A44S32-A	"	H05			
A44533-A	"	T101			

Part' No.	Part's Name	Symbol No.	Part's Name	Part's Name	Symbol No.
Capacitors			Q03263-221	Polystyrol Capacitor	cm
			Q03269-822	//	C405
Q42310-1000	Fixed Ceramic Capacitor	C418	Q03214-104	Polypropylene Capacitor	C136
Q04335-1	"	C115	Q03215-563	"	C413
" -4	"	C203	Speaker		
" -6	"	C128	ADZ455	Speaker	
" -10	"	C104,126	Tuners		
" -20	"	C122,123	VAK-06US	VHF Tuner	
" -47	"	C101	UAK-05AS	UHF Tuner	
" -91	"	C119	Miscellaneous		
Q04061-160	"	C601	Q04900-1.2	Fuse	
Q04062-1000	"	C108,109,125	Q04901-0.75P	Fuse	
" -2000	//	111,113,114,116	Q03892-1	Earphone Plug Ass'y	
" -01	//	C106,118	A31284-B	UHF loop Antenna Ass'y	
		C124,129,133,134,135,136,137,138,139,140,141,142,143,144,145,146,147,148,149,150,151,152,153,154,155,156,157,158,159,160,161,162,163,164,165,166,167,168,169,170,171,172,173,174,175,176,177,178,179,180,181,182,183,184,185,186,187,188,189,190,191,192,193,194,195,196,197,198,199,200	A31424-AS	Rod Antenna	
Q42309-01	//	C502,503	A04237-1	Spark gap	
Q03254-IS2	Mylar Capacitor	C134	A04318-A	Core Driver (for HOR. OSC COIL)	
// -472	"	C401,402	Wiring		
Q03254-223	//	C301,305,307	Q03056-4	Power Cord With Plug	
" -473	"	C145,212			
" -104	"	C312,404,409			
" -224	"	C411			
" -334	"	C3U			

ACCESSORIES

	Qty
Earphone Plug Ass'y.....	1
UHF loop Antenna Ass'y	1
Polishing Cloth	1
JVC Station Card.....	1
Warranty Card.....	1
Instruction Card	1
Schematic Diagram	1

Requirement to Customers

For the purpose of prompt supply of service parts, inscribe parts number, parts name, and model name correctly when you order.

JVC AMERICA, INC. 50-
35, 56th Road Maspeth
New York, N. Y., 11378

MANUFACTURED by VICTOR COMPANY OF JAPAN, LIMITED.

PARTS ARRANGEMENT ON THE REAR OF PRINTED CIRCUIT BOARD

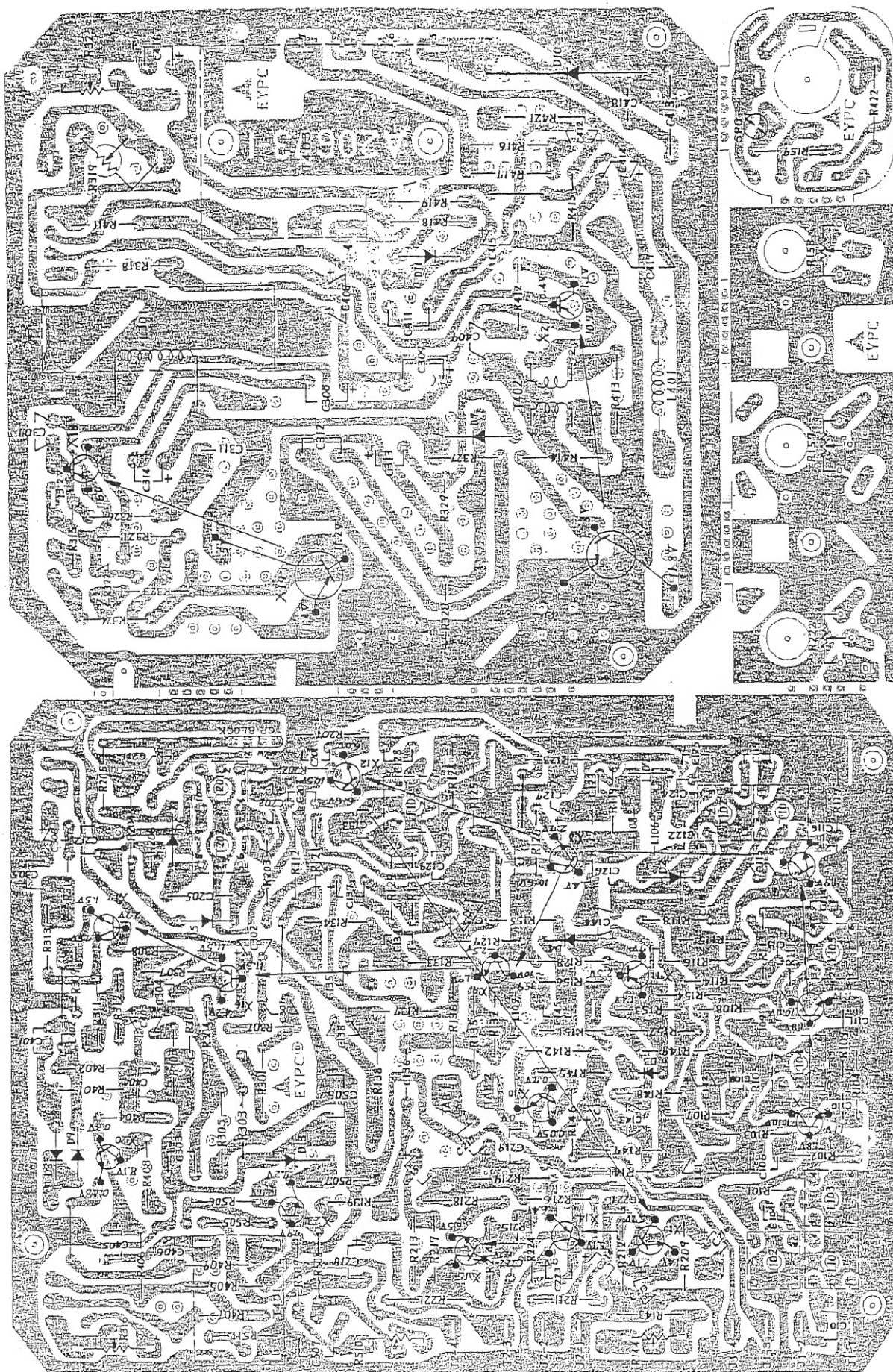


Fig. 20

