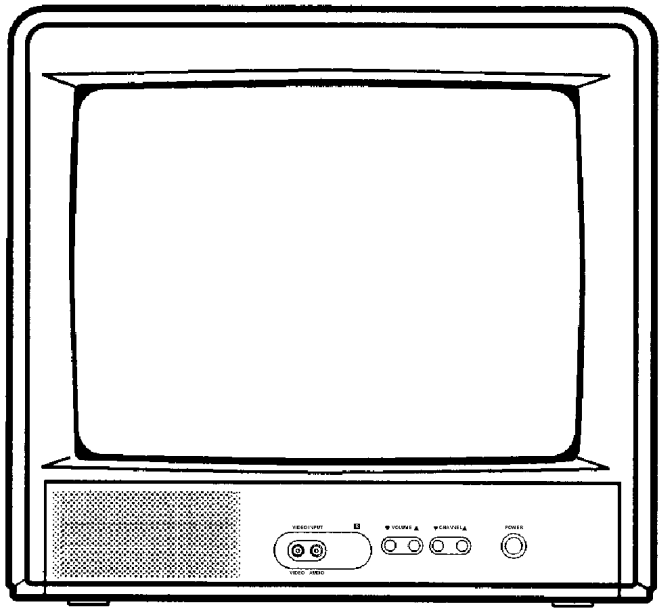
MT1132

13” Color Television



THIS SERVICE MANUAL IS FOR MT1132 SUFFIX A , B , C AND D CRT USAGE

	SUFFIX A	SUFFIX B	SUFFIX C	SUFFIX D
V451	5721-014ST37N (37GDA86X)	5721-37CN030T (370KSB22(SYB))	5721-026TT37N (A34JFQ90X)	5721-030ZT37N (A34JXV70X)
DY501	4993-117	4993-052	4993-110	4993-124

Memorex®

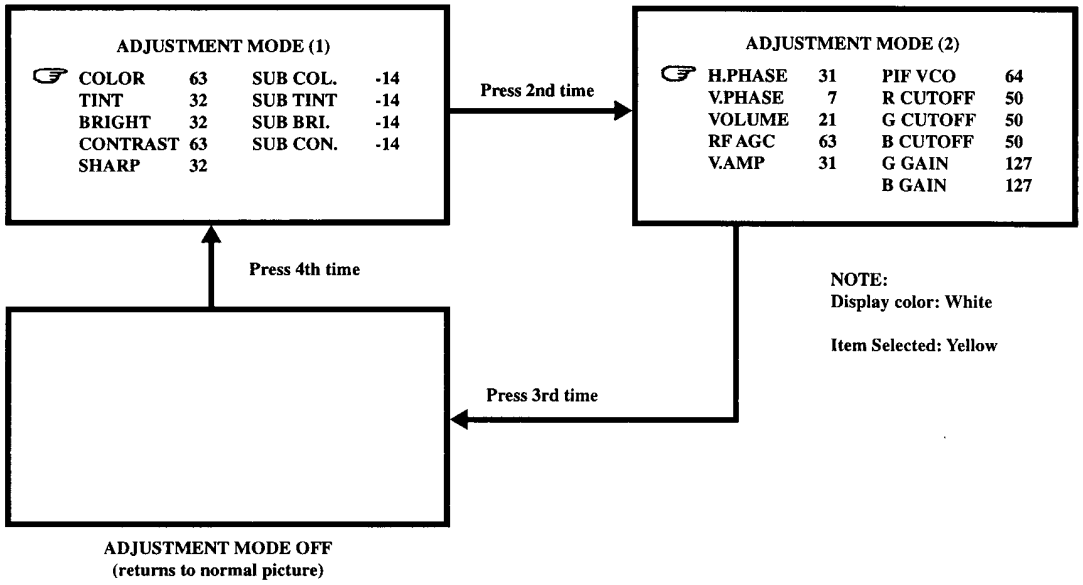
(ADJUSTMENT BY REMOTE CONTROL)

ADJUSTMENT MODE

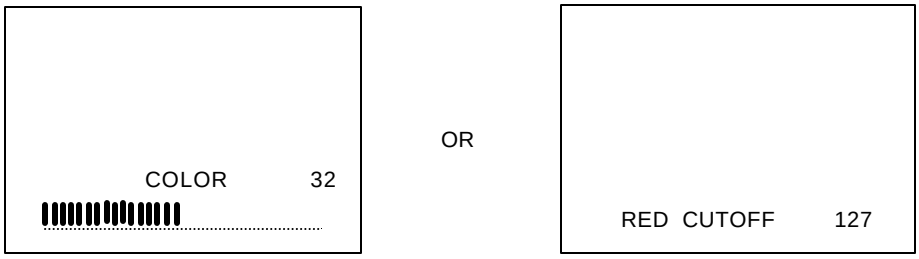
The following adjustment items can be performed from menus by Remote Control as shown below :

NOTE: The button combination and position on the Remote Control to select the adjustment items is given on page 4.

1. Press the SHIFT + ADJ. MODE buttons on the Remote Control simultaneously to bring up the adjustment mode menu screens shown below.



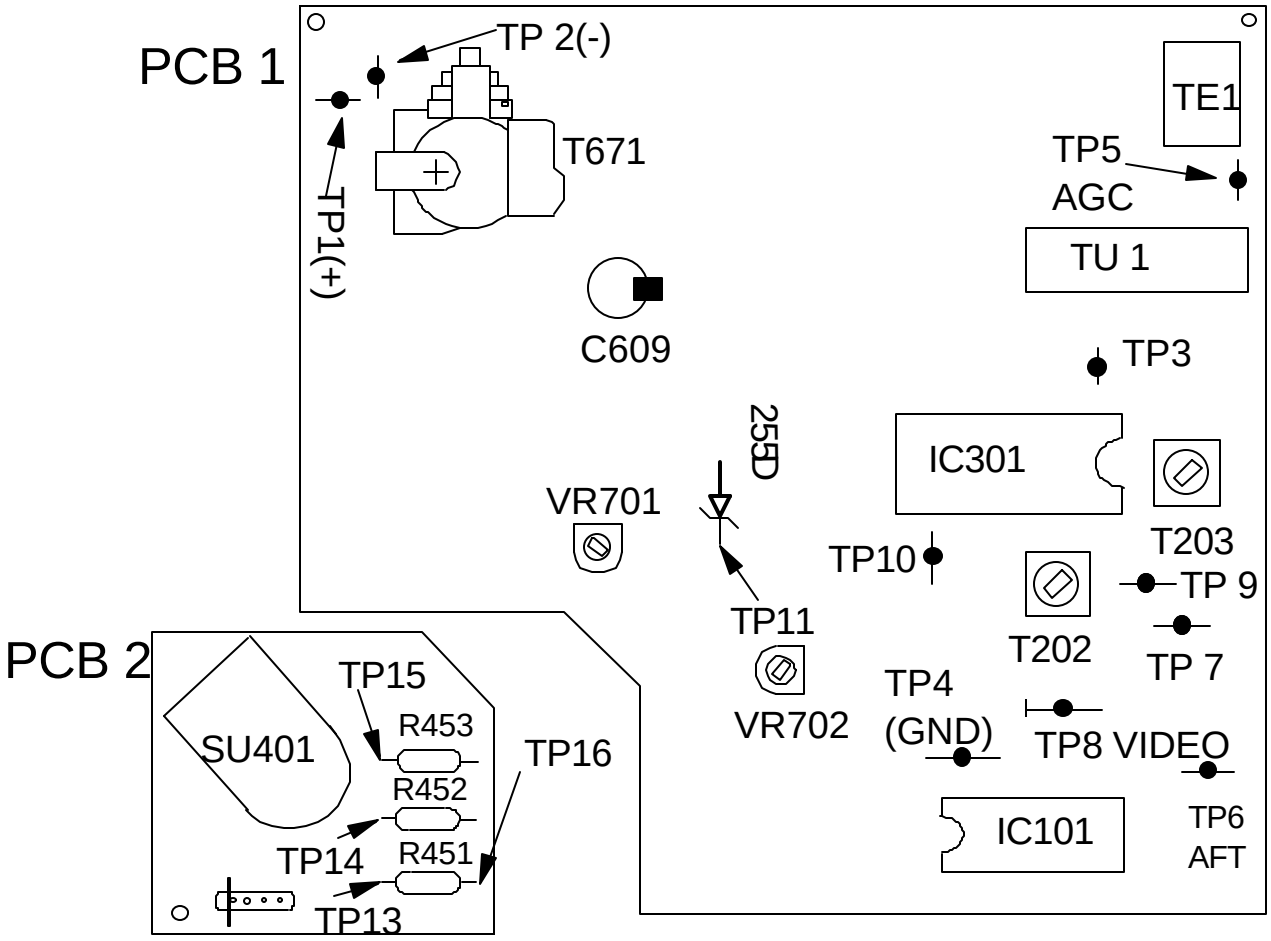
2. From the menu screen, press the + or - button on the Remote Control to select the item to be adjusted.
3. Press the MENU button on the Remote Control to enter adjustment mode for the item selected, and the display shown below appears :



Example:

4. Use the + or - button on the Remote Control to adjust the data for the item selected.
5. When adjustment has been completed, press the SHIFT + ADJ. MODE buttons on the Remote Control simultaneously to return to the main menu.

TEST POINT


PCB 1
TP 2(-)
TP1(+)
T671
TE1
TP5
AGC
TU 1
C609
TP3
25SD
IC301
VR701
T203
TP10
TP 9
TP11
T202
TP 7
PCB 2
TP15
R453
SU401
TP16
TP4
(GND)
VR702
TP8 VIDEO
R452
TP14
R451
IC101
TP6
AFT
TP13

VOLTAGE CHART (all in volts)

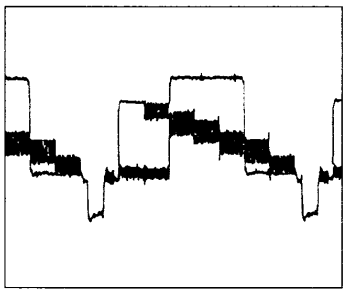
OPERATION CONDITION : TINT, BRIGHT and COLOR CONTROL…….. CENTER
CONTRAST …… MAXIMUM
COLOR BAR SIGNAL

IC101	TERMINAL No	1	2	3	4	5	6	7	8	9	10
	Volt	0.0	0.0	0.0	0.0	5.0	5.0	0.0	0.0	0.0	1.0
	TERMINAL No	11	12	13	14	15	16	17	18	19	20
	Volt	5.0	0.0	5.0	5.0	5.0	2.9	0.0	0.0	1.0	1.0
	TERMINAL No	21	22	23	24	25	26	27	28	29	30
	Volt	4.9	0.0	0.0	0.0	0.0	3.8	4.3	4.8	4.9	0.0
	TERMINAL No	31	32	33	34	35	36	37	38	39	40
	Volt	2.1	2.3	5.0	0.0	5.0	4.5	3.0	2.0	0.0	0.7
	TERMINAL No	41	42								
	Volt	0.7	5.0								
IC102	TERMINAL No	1	2	3	4	5	6	7	8		
	Volt	0.0	0.0	0.0	0.0	1.9	3.0	0.0	5.0		
IC301	TERMINAL No	1	2	3	4	5	6	7	8	9	10
	Volt	0.0	3.9	2.3	3.4	4.4	0.0	2.0	1.2	9.1	5.8
	TERMINAL No	11	12	13	14	15	16	17	18	19	20
	Volt	6.5	4.9	0.0	0.0	4.8	4.8	4.8	3.2	2.3	2.1
	TERMINAL No	21	22	23	24	25	26	27	28	29	30
	Volt	2.2	0.7	4.7	4.8	6.5	9.1	3.0	1.9	2.8	1.2
	TERMINAL No	31	32	33	34	35	36	37	38	39	40
	Volt	0.7	1.2	7.7	6.3	0.0	2.9	3.2	3.0	1.6	5.2
	TERMINAL No	41	42	43	44	45	46	47	48	49	50
	Volt	3.0	5.0	5.0	2.0	1.8	9.1	4.0	9.1	8.1	8.1
	TERMINAL No	51	52	53	54	55	56				
	Volt	0.0	0.0	2.8	4.0	2.8	0.0				
IC311	TERMINAL No	1	2	3							
	Volt	16.0	0.0	9.0							
IC501	TERMINAL No	1	2	3	4	5	6	7	8	9	
	Volt	0.0	11.4	0.0	23.0	12.6	0.0	-0.3	1.6	25.4	
IC601	TERMINAL No	1	2	3	4	5					
	Volt	0.0	121.0	160.0	160.0	0.0					
IC671	TERMINAL No	1	2	3	4	5	6	7	8		
	Volt	14.0	0.0	5.5	0.0	0.0	4.6	0.0	5.0		
IC701	TERMINAL No	1	2	3	4	5	6	7	8		
	Volt	0.0	8.8	7.6	0.0	0.0	1.2	0.7	9.0		
IC702	TERMINAL No	1	2	3	4	5	6				
	Volt	7.5	6.6	0.0	0.0	1.1	0.6				

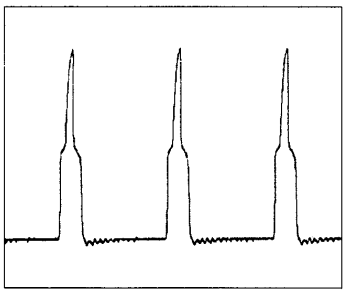
	B	E	C
	Volt	Volt	Volt
Q101	1.5	0.0	4.3
Q102	-0.8	0.0	3.8
Q173	-0.1	0.0	4.5
Q301	4.0	3.4	9.1
Q302	1.5	2.1	0.0
Q303	1.7	1.1	9.1
Q304	2.9	0.0	0.0
Q351	0.0	0.0	9.1
Q451	2.3	2.2	139
Q452	2.2	3.2	145
Q453	2.1	2.0	149

	B	E	C
	Volt	Volt	Volt
Q551	0.3	0.0	84.4
Q552	-0.2	0.0	-
Q601	0.7	0.0	0.2
Q701	2.9	2.3	9.8
Q703	2.9	2.3	10.3
Q751	1.1	0.5	4.1
Q752	1.0	0.4	5.4
Q753	4.1	3.5	8.9
Q801	0.7	0.0	7.1
Q802	7.1	7.8	0.0
Q803	8.4	7.8	16.0

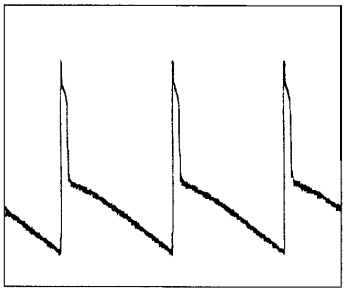
CHASSIS WAVEFORM



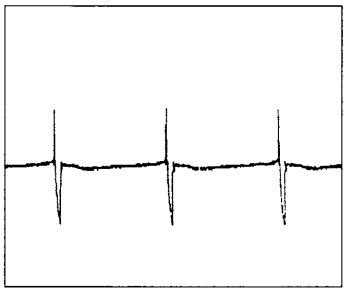
WF-1 1.0Vp-p(H)



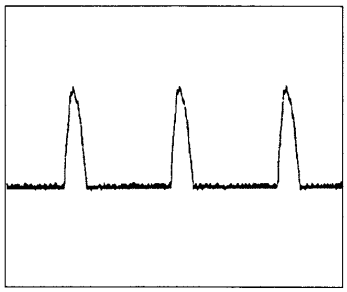
WF-2 9.7Vp-p(H)



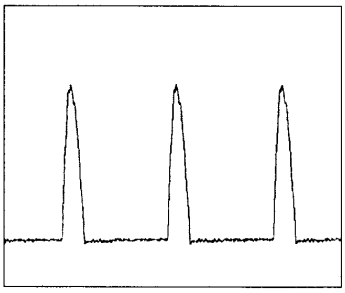
WF-3 47.2Vp-p(V)



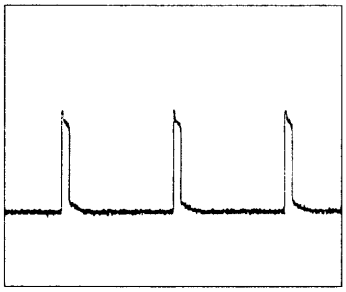
WF-4 1.7Vp-p(V)



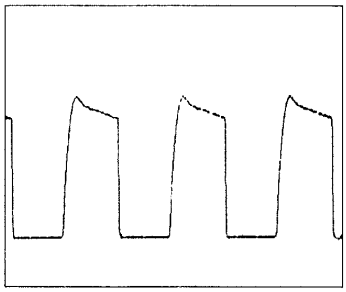
WF-5 27.4Vp-p(H)



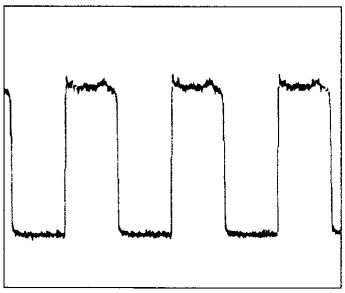
WF-6 24.4Vp-p(H)



WF-7 25.8Vp-p(V)



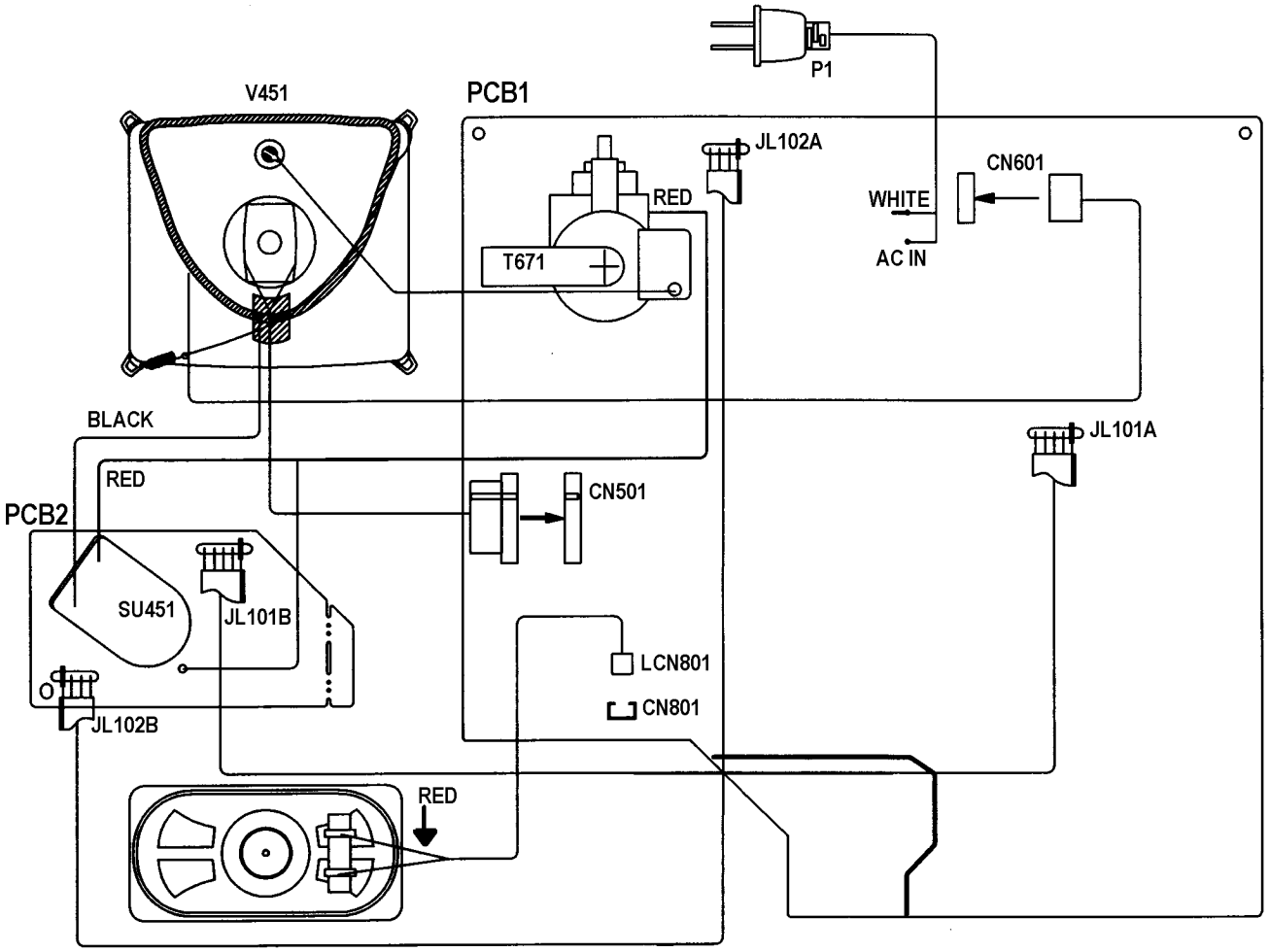
WF-8 202Vp-p(H)



WF-9 0.75Vp-p(H)

NOTES:
WAVEFORMS SHOWN WERE PRODUCED USING A PATTERN GENERATOR WITH ITS CONTROL SET TO PRODUCE A COLOR BAR SIGNAL AND A WIDEBAND OSCILLOSCOPE WITH LOW CAPACITY PROBE TO PREVENT LOADING. RECEIVER OPERATING CONTROLS WERE ADJUSTED TO PRODUCE A NORMAL PICTURE. OSCILLOSCOPE SWEEP WAS SET AT 5mS FOR VERTICAL WAVEFORMS AND 20uS FOR HORIZONTAL WAVEFORMS. PEAK-TO-PEAK VOLTAGES INDICATED MAY VARY DEPENDING ON CALIBRATION OF TEST EQUIPMENT, CHASSIS PARTS TOLERANCES AND CONTROL SETTINGS. ALL WAVEFORMS ARE TAKEN WITH WIDEBAND OSCILLOSCOPE VOLTAGES AND WAVEFORMS ARE TAKEN WITH COLOR BAR SIGNAL GENERATOR APPLIED TO THE SET.

WIRING DIAGRAM



SCHEMATIC DIAGRAM