

Service Adjustments Cont'd.

- 1: Tune the TV set to receive a broadcast signal with stereo sound signal.
- 2: Connect probe of oscilloscope to Pin 5 of IC601.
- 3: Adjust pilot carrier detector coil (VL601) for maximum amplitude.

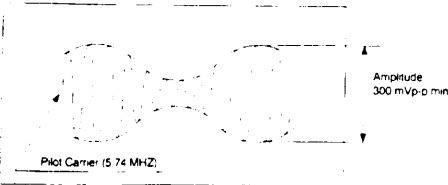


Fig 4.

Stereo Separation Adjustment

Test Point: Pin 16 of IC601.
Adjust: VR141.

- 1: Tune the TV set to receive a broadcast signal with stereo sound signal.
- 2: Set sound volume control to 35% position.
- 3: Connect probe of oscilloscope to Pin 16 of IC601.
- 4: Adjust Variable Resistor VR141 for flat amplitude.

a) Before Adjust b) After Adjust



Fig 5.

Vertical/Horizontal/E-W (East-West) Adjustment

Note: These adjustments are aligned at the time of manufacture for optimum performance. Re-adjustment of them should not be necessary unless IC02 (EEPROM) is defective. Because all the information of these adjustments are memorised in that IC.

Adjustment Procedures

Table 1: Corresponding buttons for each adjustment			
Button	OSD	Adjustment	Reference
6	VL --	Vertical Linearity	
9	VS --	Vertical Shift	
7	VH --	Vertical Height	
8	SC --	Vertical "S" compensation	Receive cross hatch pattern
1	HS --	Horizontal Shift	
2	EW --	Horizontal Width	
3	EP --	East-West parabola	Receive cross hatch pattern
4	EC --	East-West corner	Receive cross hatch pattern
5	ET --	East-West Trapezium	Receive cross hatch pattern
TXT/M	PL --	Peak Limit	PL45, set to
SIZE	GG --		GG31, set to
Reveal	RG --	White Balance	
UPDATE	BG --		
Ref) -- of OSD column means variable number, for example 35, from 00 to 63.			
NOTE: These adjustments are possible only with serviceable remote controller installed SVC button.			

- 1: Tune the TV set to receive a digital pattern unless otherwise noted.
- 2: Press the SVC button on the remote control for about 3 seconds.
- 3: Press corresponding button (refer to table 1) on remote control, then you can find individual on-screen display (OSD) around middle-left of screen.
- 4: Adjust volume up or down button for correct picture.
- 5: Press OK button to memorise all the adjusted data, then press TV button.

Adjustment

Refer to table 1.

VL- -(Vertical Linearity)

Note: When you press volume +/- button, the colour will disappear at lower half of the display.

Adjust so that the boundary line between the upper and lower half is in accord with geometric horizontal centre of the picture tube.

VS- -(Vertical Shift)

Adjust so that the horizontal centre line of digital circle pattern is in accord with geometric horizontal centre of the picture tube.

VH- -(Vertical Height)

Adjust for 1/8" overscan at top and bottom display.

SC- -(Vertical "S" Compensation)

Adjust so that all distance between each horizontal line is the same.

HS- -(Horizontal Shift)

Adjust so that the vertical centre line of the digital pattern is in accord with geometric vertical centre of the picture tube.

EW- -(Horizontal Width)

Adjust so that digital circle pattern looks like exact circle.

EP- -(East-West Parabola)

Adjust so that the middle portion of the outermost left and right vertical line looks like parallel with vertical lines of the picture tube.

EC- -(East-West Corner)

Adjust so that the vertical line at every 4 corners of the screen looks like parallel with the vertical lines of the picture tube.

ET- -(East-West Trapezium)

Adjust to make the length of top horizontal line the same as the bottom horizontal line.

Screen Voltage Adjustment

Test Point: RK (Red Cathode of CPT Board).
Adjust: Screen control of FBT.

- 1: Tune the TV set to receive digital pattern.
- 2: Set contrast to 47%, brightness and

- 3: colour to 31% individually.
- 4: Connect the probe of oscilloscope to the RK (red cathode of CPT board).
- 5: Adjust screen volume of FBT so that the waveform is the same as in fig. 6.

Peak Limit Adjustment (Refer to table 1)

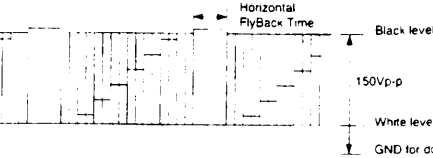


Fig 6.

- 1: Press TXT/M (Ⓜ) button on the remote control then you can find "PL- -" OSD around the middle-left of the screen.
- 2: Adjust volume up or down button for PL45.

White Balance Adjustment

Note: This adjustment should be performed after screen voltage adjustment.

- 1: Tune the TV set to 87.5% white pattern.
- 2: Adjust contrast and brightness for 30 ± 1 ft-L at the centre area of the screen.
- 3: Press SIZE (Ⓢ) button on the remote control then you can find "GG- -" OSD around middle-left of screen.
- 4: Adjust volume up or down button for GG31.
- 5: Press REVEAL (Ⓡ) / UP DATE (Ⓡ) button you find "RG- -" / "BG- -" OSD around middle-left of screen.
- 6: Adjust volume up or down button in each status of "RG- -" / "BG- -" for X = 281 ± 10, Y = 287 ± 10 with colour analyser.

Focus Adjustment

Test Point: Observe Display.
Adjust: Focus control of FBT.

- 1: Set colour to minimum, brightness and contrast to maximum individually.
- 2: Tune the TV set to an inactive channel station (snow condition).
- 3: Adjust the focus control for best overall focus.

Trouble Shooting Guides

