

ALIGNMENT INSTRUCTION

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ALIGNMENT INSTRUCTIONS

1. SERVICE MODE ADJUSTMENTS

Follow the steps below whenever service adjustment is required. See Table-A and Table-B to determine if service adjustments are required. Use remote supplied with the TV for proper servicing codes.

1) How to enter the service mode using the user remote control.

- Turn the set on.
- direct the remote control to the reception window of TV.
- Push buttons of remote control in sequence as follows.
1 → MUTE → INFO → MUTE
- Then, the screen will appear as follows.

S2	SCRN V.=02h RCCR = 00h
S5	IFC
S6	GEO
S8	W/B
S9	DP
S12	FACT
S7	PTRN NORMAL
S10	SOUND

- Using the channel up or channel down button, select the item you wish to adjust.
(The color of selected item turns into the red.)

2) How to memorize the adjusted values in the service mode.

- Must press **INFO** button the state which the screen is displaying each of service menus after all adjustments are completed each of all service menu.

Table-A : Adjust the values of service mode when a part is replaced.

PART REPLACED	ADJUSTMENT		NOTES								
	NECESSARY	UNNECESSARY									
I701 (U-COM)		O	Data is stored in I703								
I101 (MAIN)		O									
I703 (EEPROM)	O		Initial setting values are written from I701. Adjusting Items <table border="1"><tr><td>S 5</td><td>RFAGCD</td></tr><tr><td>S 6</td><td>H.PHASE/V.POSI/V.SIZE</td></tr><tr><td>S 8</td><td>RD/BD/RB/GB/BB</td></tr><tr><td>S 9</td><td>Subbrightness</td></tr></table>	S 5	RFAGCD	S 6	H.PHASE/V.POSI/V.SIZE	S 8	RD/BD/RB/GB/BB	S 9	Subbrightness
S 5	RFAGCD										
S 6	H.PHASE/V.POSI/V.SIZE										
S 8	RD/BD/RB/GB/BB										
S 9	Subbrightness										
CRT	O		Adjust items related to picture tube only.(White Balance adjustment)								

ALIGNMENT INSTRUCTIONS

Table-B

MODE	ADJUSTMENT ITEMS	DATA		REMARKS
		INITIAL	RANGE	
S 2	Screen Adjustment	-	-	
S 5	Auto RF AGC	-	-	
	Video Level (VIDEOL)	7	0~7	Must be set to 7
	RF AGC Delay (RFAGCD)	*	0~63	Align RF AGC threshold
	FM Level (FM. LEV)	8	0~31	Must be set to 8
	AGC Point	3.75	-	Select AGC reference voltage
S 6	Horizontal Phase (H.PHASE)	*	0~31	
	Vertical Position (V.POSI)	*	0~63	Align sync to flyback pulse, using internal cross Pattern(S7)
	Vertical Size (V.SIZE)	*	0~127	Align vertical DC bias, using internal cross pattern(S7)
	NO SD POWER OFF	YES	-	Align vertical amplitude, using internal cross pattern(S7)
	Vertical S-Correction (V SC)	0	0~31	Must be set to 0
	Vertical Linearity (V LIN)	18	0~31	Must be set to 18
S 7	Internal Black	-	-	Display internal BLACK pattern
	Internal 100% White	-	-	Display internal 100% WHITE
	Internal 60% White	-	-	Display internal 60% WHITE
	Internal Cross Pattern	-	-	Display internal CROSS pattern
S 8	Red Drive (RD)	*	0~127	Align RED OUT AC level
	Green Drive (GD)	10	0~15	Must be set to 10
	Blue Drive (BD)	*	0~127	Align BLUE OUT AC level
	Red Bias (RB)	*	0~255	Align RED OUT DC level
	Green Bias (GB)	160	0~255	Must be set to 160
	Blue Bias (BB)	*	0~255	Align BLUE OUT DC level
S 9	Subbrightness	64	0~127	Align common RGB DC level
	Contrast	10	0~27	
	Tint	27	0~77	
	Color	15	0~27	
	Sharp	15	0~30	Must be set to 15
S 10	ATT	9	0~15	Must be set to 9
	SPECTRAL	28	0~63	
	WIDEBAND	22	0~63	
S 12	Forwarding Mode	—	—	Factory Initialization

* Indicates the items with different settings each of sets

2. ASSEMBLY ADJUSTMENTS

1) SCREEN ADJUSTMENT (S2)

- Enter the service mode and select service adjustment S2.
- You can see the one horizontal line on the screen.
- Adjust the Screen Control Volume (located on FBT) so that the horizontal line onscreen may be disappeared.
- Press the volume up or down button to exit in the screen adjustment mode.

NOTE IN THE SCREEN ADJUSTMENT MODE, DON'T PRESS OTHER BUTTONS EXCEPT VOLUME UP OR DOWN BUTTON.

ALIGNMENT INSTRUCTIONS (Continued)

2) FOCUS ADJUSTMENT

- Turn in a local station and adjust the Focus Control knob (located on FBT) for best picture details at high light condition.

3) RF AGC DELAY ADJUSTMENT (S5)

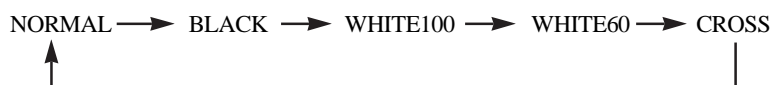
- Receive a good local channel.
- Enter the service mode and select service adjustment S5.
- You can see the OSD as shown in below.

IF	CONTROL	
AUTO	RFAGC	START
VIDEO		7
RFAGCD		10
FM.LEV		8
AGC POINT		3.75
A/D VALUE:8DH		
⬆ MOVE ⬅▶ ADJUST INFO:SET		

- Select RFAGCD item, press the volume up or down button until noise or beat in picture disappears.
- Press the INFO button to memorize the data.

4) GEOMETRIC ADJUSTMENTS (S6)

- Enter the service mode and select service adjustment S7.
- Whenever you select the “S7” using the volume up or down button, the screen is changing like this.



- Using the volume up or down button, select internal cross pattern.
- Select service adjustment S6
- You can see the OSD as shown in below.

GEOMETRY		
H.	PHASE	20
V.	POSI	29
V.	SIZE	70
NO SD POWER OFF YES		
V	SC	0
V	LIN	18
⬆ MOVE ⬅▶ ADJUST INFO:SET		

4)-1. Horizontal Position Adjustment

- Select H.PHASE item, adjust H.PHASE data value to obtain proper horizontal centering toe internal cross pattern at the left and right of the screen.

4)-2. Vertical Position Adjustment

- Select V.POSI item, adjust V.POSI data value to center the raster properly on the screen.

ALIGNMENT INSTRUCTIONS (Continued)

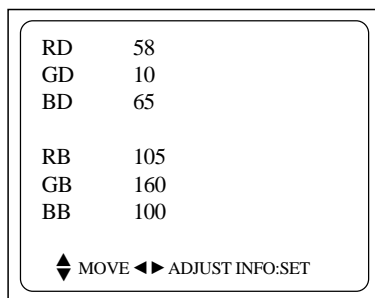
4)-3. Vertical Size Adjustment

- Select “V.SIZE” item, adjust “V.SIZE” data value to proper vertical size as follows.



5) WHITE BALANCE ADJUSTMENT(S8)

- Set screen settings to "Preset" values, then receive a good local channel.
- Enter the service mode and select service adjustment S8.
- You can see the OSD as shown in below.

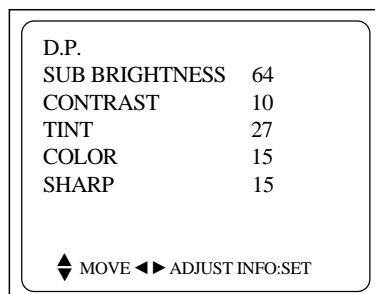


- Using volume up or volume down, adjust service adjustment data of RD/GD/BD and RB/GB/BB until a good gray scale with normal whites is obtained.
- Press the INFO button to memorize the data.

6) DIGITAL PRESET(D.P) ADJUSTMENTS(S9)

SUBBRIGHTNESS ADJUSTMENT

- Receive a good local channel.
- Enter the service mode and select service adjustment S9.
- You can see the OSD as shown in below.



ALIGNMENT INSTRUCTIONS (Continued)

- Select Subbrightness item, adjust Subbrightness data value to obtain normal brightness level.
- Press the INFO button to memorize the data.

CONTRAST

- Fixed value = 10

TINT

- Fixed value = 27

COLOR

- Fixed value = 15

SHARP

- Fixed value = 15

7) FACTORY OUTGOING MODE (S12:FACT)

- If you select the S12, then the set becomes factory outgoing status.
- You can see the OSD “outgoing OK”

PARENTAL CONTROL PASSWORD SETTINGS

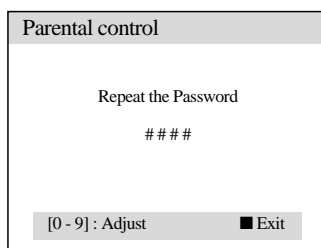
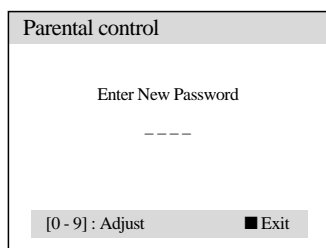
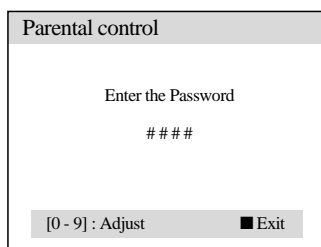
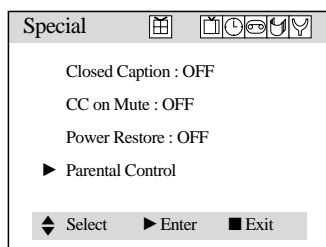
If user forget Parental Control Password as follows.

1. CHANGE THE PASSWORD.

- Turn the set on.
- Direct the remote control to the reception window of your TV/VCR
- Using the MENU buttons, select the Special menu.
- Using the the channel up (▲) or down (▼) buttons, select Parental Control.
- Using the volume up (►), set the password Menu.
- Push buttons of remote control in sequence as follows.

2 → 2 → 1 → 1

- Parental control password is reset.
- Using the 0~9 buttons, enter the password.
- Using the 0~9 buttons, repeat the password.

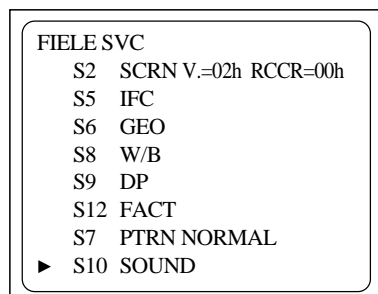


2. RESET THE PASSWORD

- Turn the set on.
- Direct the remote control to the reception window of your TV/VCR.
- Push buttons of remote control in sequence as follows.

1 → MUTE → INFO → MUTE

- Then, the screen will appear as follows.



- Using the channel up (▲) or down (▼) buttons, select S12 FACT.
Press the volume up (►) button, the set becomes factory outgoing status.
- Parental control password is reset.
- Using the MENU buttons, select the parental control menu, set the new password.