

SERVICE ADJUSTMENT

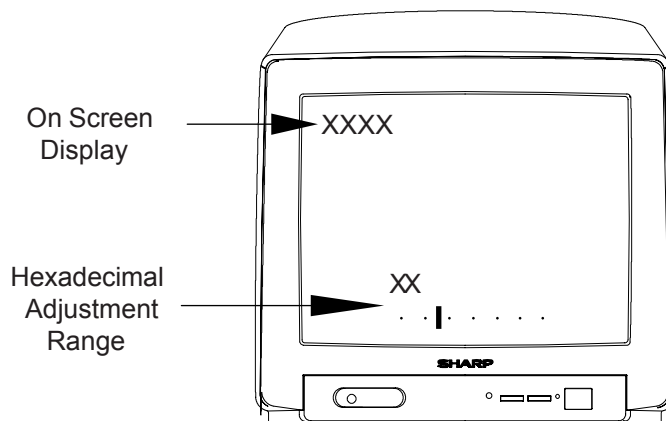
•SERVICE MODE FUNCTION

1. Connect a test pattern to the antenna terminal.
2. Tune the receiver to this signal.
3. Turn the receiver off using the mains switch.
4. Press the volume down and channel up buttons on the front of the receiver at the same time.
5. Keeping these buttons pressed, turn the mains on.
6. When the set starts up it will be in service mode.
7. Release the two buttons.

- Use the channel up and down buttons to move between the options.
- Use the volume control buttons to change the data.
- The data is stored automatically when the service mode is exited or at switch off.
- To exit the service mode, press the standby or menu button on the remote control.

On Screen Display	Hexadecimal Adjustment Range	Function
-SERV-		Indicates operative Service Mode
AGC	00~ 3F	Auto Gain Control
AFT	00 ~ 7F	Auto Frequency Control
H-SHIFT	00 ~ 3F	Horizontal Shift
V-SHIFT	00 ~ 3F	Vertical Shift
V-AMPL	00 ~ 3F	Vertical Amplitude
V- SLOP	00 ~ 3F	Vertical Symmetry
S-CORR	00 ~ 3F	S Correction
Y-DLY	00 ~ 3F	Luminance/Chrominance Delay
GAIN R	00 ~ 3F	Red Gain
GAIN G	00 ~ 3F	Green Gain
GAIN B	00 ~ 3F	Blue Gain
NVM	00 ~ FF	NVM Data Change

To ensure correct operation of the AFT, this must be adjusted to 40.



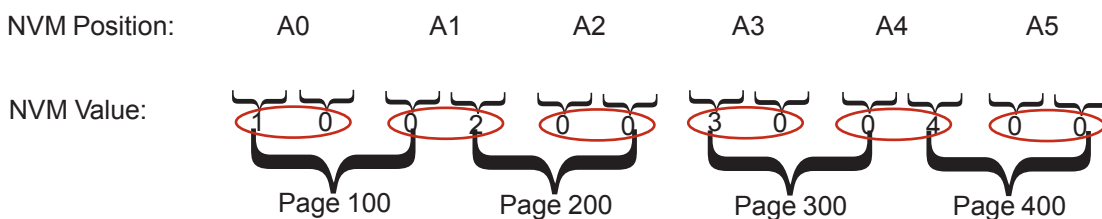
PAGE	ADDRESS	DESCRIPTION	VALUE
0	3B	N_HUE: HUE CORRECTION	07
	3C	CONT2: CONTRAST	33
	3D	COLOR2: COLOR SATURATION	17
	3E	BRIGHT: BRIGHTNESS	1F
	3F	LUPK2: 0,0,0,0,0,P2,P1,P3 LUMA PEAKING VALUE LUPK	22
	40	DK_OPTION: OPTION FOR DK SYSTEM [X X X X X X DK_S]	00
	41	HCR1_NVM: END OF HORIZONTAL CLAMP PULSE	13
	42	OSD_WORD: OSD STATUS (1=RT/0=OT,1=NO WHITE BARS IN MENU CLOCK-D.C.-, PIN OPTION,R830-D.C.-, FRONT LOCK,AV LOCK, E_NORMALIZADO PICTURE)	09
	43	OP_TXT_SYS: TELETEX SYSTEMS OPTIONS (X X X X X FLOF TOP)	02
	44	HCR0_NVM: BEGINING OF HORIZONTAL CLAMP PULSE.	00
	45	EVTH_L: L-L' VOLTAGE	1F
	46	EVTL_L: L-L' VOLTAGE	1F
	47	SDV0_TXT: VERTICAL SYNC DELAY FOR TXT.	1E
	48	S_SPEED: SEARCH SPEED FOR ALL BANDS	0F
	49	SU_SPEED: SEARCH SPEED FOR UHF	5 A
	4A	SVL_SPEED: SEARCH SPEED FOR VHL	0F
	4B	SVH_SPEED: SEARCH SPEED FOR VHH	3C
	4C	L_RANGE: RESERVED	2F
	4D	EPSW: PASSWORD ACTIV	00
	4E	EPSW1: PASSWORD 1R DIGIT	00
	4F	EPSW2: PASSWORD 2§ DIGIT	00
	50	EPSW3: PASSWORD 3R DIGIT	00
	51	EPSW4: PASSWORD 4§ DIGIT	00
	52	LANGUAGE: CHARACTER SET (FOR TXT)	00
	53	OSD_WORD1: bit 0: SIZE OSD PROG: 0=14", 1=21" bit 1: TIMING FOR OSD ON SCREEN bit 2: CHARACTER SET FOR TXT ENABLED (MENU)	00
	54	HOTEL: FOR HOTEL MODE 2 : FRONTAL BUTTONS DISABLED, SWITCH ON WITH SSW PULSE	00
	55	IFS_SCRT: CONTROL FOR IFS IN SCART MODE.	01
	56	HOTEL2: HOTEL MODE FOR S.E.I.S. VCR CONSTANT FOR ALL PROGRAMS	00
	57	B_CONTROL2: OSO,VSD,CB,BLS,BKS,CS1,CS0,BB	9 A
	58	B_CONTROL3: HOB,BPS,ACL,CMB,AST,CL2,CL1,CL0	24
	59	V_ZOOM: VERTICAL ZOOM	0D
	5A	V_SCROLL: VERTICAL SCROLL	20
	5B	B_CONTROL0: INA,INB,INC,CCC_D,FOA,FOB,XA,XB	1 A
	5C	B_CONTROL1: FORF,FORS,DL,STB,POC,CM2,CM1,CM0	C0
	5D	B_CONTROL5: EVG,HCO,LBM,VID,STM,NCIN,VIM,AKB	26
	5E	B_CONTROL6: IFS,AFW,IE_1,COR,RBL,MAT,PRD,SBL	3C
5F	B_CONTROL7: 0,0,0,HBL,GAI,IE_2,DS,DSA	00	
60	V_SCCON: SANDCASTLE CONTROL REGISTER	00	
61~ FF	RESERVED	---	
1	00 ~ 9F	RESERVED	---
	A0	PAGE MEMORY FOR LIST MODE PROGRAM 0	10
	A1		02
	A2		00
	A3		30
	A4		04
	A5		00

PAGE	ADDRESS	DESCRIPTION	VALUE
1	A6	PAGE MEMORY FOR LIST MODE PROGRAM 1	10
	A7		02
	A8		00
	A9		30
	AA		04
	AB		00
	AC		10
	AD	02	PAGE MEMORY FOR LIST MODE PROGRAM 2
	AE	00	
	AF	30	
	B0	04	
	B1	00	
	B2	10	
	B3	02	
	B4	00	PAGE MEMORY FOR LIST MODE PROGRAM 3
	B5	30	
	B6	04	
	B7	00	
	B8	10	
	B9	02	
	BA	00	
	BB	30	
	BC	04	
	BD	00	
	BE	10	
	BF	02	
	C0	00	PAGE MEMORY FOR LIST MODE PROGRAM 5
	C1	30	
	C2	04	
	C3	00	
	C4	10	
	C5	02	
C6	00	PAGE MEMORY FOR LIST MODE PROGRAM 6	
C7	30		
C8	04		
C9	00		
CA	10		
CB	02		
CC	00		PAGE MEMORY FOR LIST MODE PROGRAM 7
CD	30		
CE	04		
CF	00		
D0 ~ FF	RESERVED	FF	

DEFAULT LIST MODE PAGES MEMORIZATION NOTE:

In page memory for LIST MODE, every digit is written in one nibble (4 bits). The default values for programs 0~7 are as follows: 100, 200, 300, 400.

Example: Program 0



●PIF/AGC Adjustment

1. AFT Adjustment

AFT must be adjusted to a fixed value of 40.

2. RF-AGC Cut-In Adjustment (I2C BUS)

1. Receive the «COLOUR BAR» signal (Channel E-12). Signal strength: 53 dB μ V.
2. Enter into Service Mode.
3. Push CH \wedge until AGC appears on screen.
4. Push \bigcirc \square key of R/C. Setting is made automatically. During this setting the colour bar shall go from red to yellow. When setting is finished, colour bar disappears and B-STOP (bus stop) is shown on screen.
5. Switch set OFF and ON again, setting is now memorized.

●GEOMETRY ADJUSTMENT PROCEDURE

1. HOR SHIFT

- a) Receive Philips pattern signal.
- b) When \triangleleft \wedge button is pressed, picture moves to the left.
- c) When \triangleright \wedge button is pressed, picture moves to the right.
- d) Adjust the horizontal location to obtain picture centering (Fig.1).

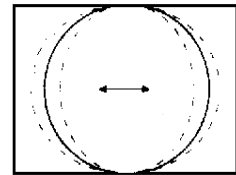


Fig. 1

2. VERT SHIFT

- a) Receive Philips pattern signal.
- b) When \triangleleft \wedge button is pressed, picture moves up.
- c) When \triangleright \wedge button is pressed, picture moves down.
- d) Adjust the vertical location to obtain picture centering (Fig.2).

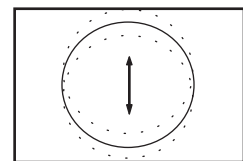


Fig. 2

3. VERT AM

- a) Receive Philips pattern signal.
- b) When \triangleleft \wedge button is pressed, vertical size of picture increases.
- c) When \triangleright \wedge button is pressed, vertical size of picture decreases.
- d) Adjust the vertical size to obtain picture overscan (Fig.3).

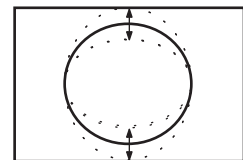


Fig. 3

4. VERT SLOP

- a) Receive Philips pattern signal.
- b) When \triangleleft \wedge button is pressed, upper picture scanning decreases and lower picture scanning increases.
- c) When \triangleleft \vee button is pressed, upper picture scanning increases and lower picture scanning decreases.
- d) Adjust the vertical symmetry to obtain symmetrical scanning between upper and lower picture (Fig.4).

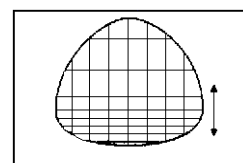


Fig. 4

●Screen Adjustment

3. Focus Adjustment

1. Apply mains voltage of 220V AC/50HZ to TV.
2. Receive Philips pattern signal to a level between 60 and 80 dB μ V.
3. Set contrast to 10/10, brightness to 5/10 and colour 0/10.
4. Adjust focus potentiometer to obtain maximum definition.

4. G2 Adjustment

1. Apply mains voltage of 220V AC/50HZ to TV.
2. Receive the «MONOSCOPE» pattern signal to a level between 60 and 80 dB μ V.
3. Enter into Service Mode. Press the TEXT key of R/C and set to level.
4. Set to the point where the raster disappears on the screen VR of FBT.
5. Check BKGD. If it is necessary adjust BKGD according to instructions detailed in the next page.

