

## 4-4 FOCUS Adjustment

1. Input a black and white signal.
2. Adjust the tuning control for the clearest picture.
3. Adjust the FOCUS control for well defined scanning lines in the center area of the screen.

## 4-5 Factory Adjustment

### 4-5-1 Service Mode

1. To enter the "Service Mode", Press the remote-control keys in this sequence :

- If you do not have Factory remote-control



- If you have Factory remote-control



### 4-5-2 Factory Mode OSD

4-5-2(A) ADJUST

**ADJUST**  
 OPTION 52 2A 48  
 G2-ADJUST  
 RESET  
 SPM-836EAN 2002/02/08

AGC	33	STT	7	PWL	12	ETRP	32
SCT	13	AKB	0	AGN	1	VZ	58
SBT	9	PDL	15	PEK	2	SVM	0
BLR	31	NDL	10	ACL	0	VMA	0
BLB	27	PSR	15	FCO	0	DPSR	15
RG	32	NSR	10	SCBT	45	DNSR	10
GG	25	VOL	10	SSP	20	DSBT	7
BG	31	LCO	0	PSNS	1	DCDL	9
VSL	19	TXP	9	HPAR	32	DBLR	31
VS	38	MVOL	10	HBOW	32	DBLB	27
VA	40	FMWS	0	EWID	32		
HS	30	AGCS1	1	EPAR	32		
SC	24	OMD	26	EUCN	32		
CDL	9	SCL	1	ELCN	32		

<b>OSD</b>	<b>Range</b>	<b>Register</b>	<b>Initial Value</b>	<b>Remark</b>
AGC	0 ~ 63	1Eh(D5-D0)	33	RF AGC
SCT	0 ~ 23	1Dh	13	Sub contrast(high light adjustment)
SBT	0 ~ 23	1Bh	9	Sub brightness(low light adjustment)
BLR	0 ~ 63	14h(D5-D0)	31	Black level offset R(low light R adjustment)
BLB	0 ~ 63	15h(D5-D0)	27	Black level offset B(low light B adjustment)
RG	0 ~ 63	16h(D5-D0)	32	White point R(high light R adjustment)
GG	0 ~ 63	17h(D5-D0)	25	White point G(high light 25 fixed)
BG	0 ~ 63	18h(D5-D0)	31	White point B(high light B adjustment)
VSL	0 ~ 63	0Fh(D5-D0)	19	Vertical slope
VS	0 ~ 63	12h(D5-D0)	38	Vertical shift
VA	0 ~ 63	10h(D5-D0)	40	Vertical amplitude
HS	0 ~ 63	09h(D5-D0)	30	Horizontal shift
SC	0 ~ 63	0Fh(D5-D0)	24	S-correction
CDL	0 ~ 15	2Ah(D3-D0)	9	Cathode drive level
STT	0 ~ 7	08h	7	Sub tint(NTSC only)
AKB	0 ~ 1	2Ah(D4)	0	Black current stabilization
PDL	0 ~ 15	1Ah(D3-D0)	15	PAL Y-delay adjustment
NDL	0 ~ 15	1Ah(D3-D0)	10	NTSC Y-delay adjustment
PSR	0 ~ 23	1Ch	15	PAL sub color gain adjustment
NSR	0 ~ 23	1Ch	10	NTSC sub color gain adjustment
VOL	0 ~ 63	1Fh	10	Initial vol adjustment
LCO	0 ~ 1	27h(D7-D5)	0	PLL demodulator frequency adjust( 0 : set )
TXP	0 ~ 15	87F2h(D5-D0)	9	TTX horizontal shift adjustment(Micom Memory Part)
MVOL	0 ~ 50	0h(D15-D0)	10	Melody initial vol adjustment(MSP34XX)
FMWS	0 ~ 1	29h(D5)	0	Narrow-band sound PLL window selection
AGCS1	0 ~ 3	28h(D2-D1)	1	IF AGC speed
OMD	0 ~ 63	05h(D5-D0)	26	Off-set IF demodulator
SCL	0 ~ 3	04h(D5-D4)	1	Soft clipping level
PWL	0 ~ 15	04h(D3-D0)	12	Peak white limiting
AGN	0 ~ 1	29h(D7)	1	FM demodulator gain
PEK	0 ~ 3	19h(D7-D6)	2	Peaking center frequency
ACL	0 ~ 1	20h(D1)	0	Automatic color limiting
FCO	0 ~ 1	21h(D0)	0	Forced color limiting
SCBT	0 ~ 63	1Bh	45	Screen brightness(different from INCH)
SSP	0 ~ 23	19h(D5-D0)	20	Sub Sharpness gain adjustment

<b>OSD</b>	<b>Range</b>	<b>Register</b>	<b>Initial Value</b>	<b>Remark</b>
PSNS	0 ~ 1	21h(D2)	1	Ident sensitivity PAL/NTSC decoder
HPAR	0 ~ 63	06h(D5-D0)	32	Horizontal parallelogram
HBOW	0 ~ 63	07h(D5-D0)	32	Horizontal bow
EWID	0 ~ 63	0Ah(D5-D0)	32	EW width
EPAR	0 ~ 63	0Bh(D5-D0)	32	EW parabola
EUCN	0 ~ 63	0Ch(D5-D0)	32	EW upper corner parabola
ELCN	0 ~ 63	0Dh(D5-D0)	32	EW lower corner parabola
ETRP	0 ~ 63	0Eh(D5-D0)	32	EW tarpezium
VZ	0 ~ 63	13h(D5-D0)	32	Vertical zoom
SVM	0 ~ 3	2Dh(D5-D0)	0	Delay of RGB output to VM output
VMA	0 ~ 3	2Eh(D5-D0)	0	Ampulitude of SVM out
DPSR	0 ~ 23	1Ch	15	DVD PAL sub color gain adjustment
DNSR	0 ~ 23	1Ch	10	DVD NTSC sub color gain adjustment
DSBT	0 ~ 23	1Bh	7	DVD Sub brightness(low light adjustment)
DCDL	0 ~ 15	2Ah(D3-D5)	9	DVD Cathode drive level
DBLR	0 ~ 63	14h(D5-D0)	31	DVD Black level offset R(low light R adjustment)
DBLB	0 ~ 63	15h(D15-D0)	27	DVD Black level offset B(low light B adjustment)

4-5-2(B) OPTION

ADJUST  
**OPTION 52 2A 48**  
 G2-ADJUST  
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No	Item	Initial value	Remark
1	LNA	OFF	CIS : ON
2	SYSTEM	CS	CS - CB - CD
3	AUDIO	MONO	MONO - MONO/BILI - L-STEREO - L-STEREO/BILI - STEREO - NICAM
4	JACK	RCA	RCA - SCART - RCA+DVD
5	ZOOM	NOR/ZOOM/16:9	NOR/ZOOM/16:9 - NOR/ZOOM
6	AUTO POWER	ON	ON(MUST OFF)
7	EW	ON	ON - OFF(21" F PIN FREE CRT OFF)
8	2nd SIF	ON	ON - OFF(QUEST OFF)
9	HOTEL MODE	OFF	OFF - ON(OPTION)
10	BKS	ON	ON - OFF(EUROPE OFF)
11	HIGH DEVIA	OFF	OFF(MUST OFF)
12	HELP MENU	ON	ON - OFF(EUROPE OFF)
13	LANGUAGE	EAST ASIA	EAST ASIA - CHINA
14	V-GUARD	OFF	OFF(MUST OFF)

4-5-2(C) G2-ADJUST

ADJUST  
 OPTION 52 2A 48  
**G2-ADJUST**  
 RESET  
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- ☞ Entering G2-Adjust Mode Screen Adjust : Displayed As "NG".  
 → Turn SCREEN VR OF FBT, Adjust Value Become To Be "OK".

