

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 | | |

| OSD | Range | Register | Initial Value | Remark |
|------------|--------------|-----------------|----------------------|--|
| 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 |

| OSD | Range | Register | Initial Value | Remark |
|------------|--------------|-----------------|----------------------|--|
| PSNS | 0 ~ 1 | 21h(D2) | 1 | Ident sensitivity PAL/NTSC decoder |
| HPAR | 0 ~ 63 | 06h(D5-D0) | 32 | Horizontal parallelogram |
| HBOW | 0 ~ 63 | 07(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

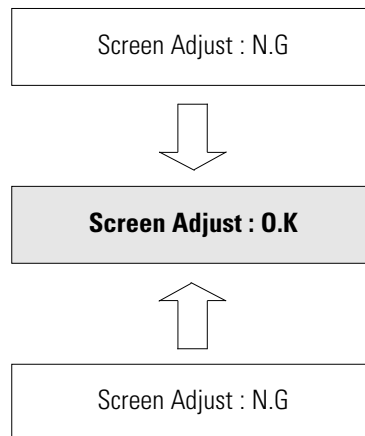
ADJUST
OPTION 52 2A 48
 G2-ADJUST
 RESET
 SPM-836EAN 2002/02/08

| 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
 SPM-836EAN 2002/02/08

- ☞ Entering G2-Adjust Mode Screen Adjust : Displayed As "NG".
 → Turn SCREEN VR OF FBT, Adjust Value Become To Be "OK".



4-5-2(D) SCREEN CHANGE (I2C BUS GEOMETRIC ADJUSTMENT)

