

English

COLOR MONITOR

Model No : 710B

USER'S GUIDE



DAEWOO

S/N :

FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio, TV technician for help.

CAUTION: Any changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

CANADIAN DEPARTMENT OF COMMUNICATIONS COMPLIANCE STATEMENT

This digital apparatus does not exceed the Class A/Class B (whichever is applicable) limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Avis de conformité aux normes du Ministère des Communications du Canada.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de Class A/de Class B (selon le cas) prescrites dans le règlement sur le brouillage radioélectrique édicté par le ministère des communications du Canada.

WICHTIGE INFORMATIONEN

Bitte lesen Sie alle diese Informationen, bevor Sie das Gerät in Betrieb nehmen! Lesen Sie sich außerdem die Bedienungsanleitung komplett und sorgfältig durch, da nur in diesem Fall eine problemlose Inbetriebnahme erwartet werden kann.

- Achten Sie darauf, daß das Gerät nur in eine 230V Schuko-Steckdose eingesteckt wird.
- Die Steckdose sollte jederzeit frei zugänglich sein um bei einem evtl. auftretenden Notfall das Gerät schnell vom Netz zu trennen.
- Achten Sie desweiteren darauf, daß die Netzanschlußleitung nicht mechanisch beansprucht oder sonstwie beschädigt wird.
- Öffnen Sie das Gerät niemals! Im Inneren befinden sich Teile mit gefährlicher Spannung.
- Bevor Sie das Gerät reinigen, ziehen Sie bitte den Netzstecker aus der Steckdose. Säubern Sie dann das Gerät mit einem feuchten (keinesfalls tropfnassen) Lappen.
- Die in diesem Gerät entstehende Röntgenstrahlung ist ausreichend abgeschirmt (Ortsdosisleistung in 0.1m Abstand weniger als 1.0µ Sv/h).
- Beschleunigungsspannung maximal 29Kv.
- Stellen Sie das Gerät an einem ergonomisch günstigen Ort auf und sorgen Sie dafür, daß der Monitor mit nach ZH1/618/10.80 geprüfter Peripherie betrieben wird, da nur unter diesen Umständen ein optimaler ergonomischer Betrieb des Gerätes sichergestellt ist.

Falls Sie dennoch Fragen haben, auf die die Bedienungsanleitung keine hinreichende Antwort geben kann, so kontaktieren Sie bitte den nächsten Fachhändler.

Maschinenlärminformationsverordnung 3. GSGV, 18.01 1991:
Der arbeitsplatzbezogene Schalldruckpegel beträgt 70 dB (A) oder weniger gemäß ISO 7779.



DECLARATION OF CONFORMITY

We, Manufacturer / Importer

DAEWOO ELECTRONICS CO., Ltd
541, 5-Ga, Namdaemoon-Ro, Jung-Gu
Seoul, Korea

declare under our sole responsibility that the product,

Color Display Monitor
710B

to which this declaration relates is in conformity with
the following standard(s) or other normative document(s)

Safety : EN 60950/1992/A1:1993/A2 : 1993
EMC : EN 55022/8.1994, EN 50082-1/1992
EN 61000-3/1995

following the provisions of 89/336 EEC-EMC Directive
and the provisions of 73/23 EEC-Low Voltage Directive.

Handed over by : S. H. Kim, Managing Director.
Display Business Division.

Feb. 13, 1998 Seoul Signature :

S. H. Kim Managing Director
Display Business Division.
DAEWOO ELECTRONICS Co., Ltd

Emission Characteristics Tested by SEMKO

A sample of this type has been tested and has shown compliance with the guidelines in the Swedish document TCO '95

As an ENERGY STAR Partner, Daewoo Electronics Co., Ltd. has determined that this product meets the Energy Star guidelines for energy efficiency.

The power cord is used as a main disconnect device. Disconnect the power cord before servicing.
The outlet must be installed near the monitor and must be easily accessible.

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INTRODUCTION

This manual explains how to correctly install, operate and get the best performance from your monitor. Please read this user's manual carefully before installing your monitor, then keep it near your monitor for quick reference.

First, please check that the contents of the carton box corresponds with the following checklist :

- Color monitor
- Power cord
- Tilt/swivel stand
- User's manual

If there is any item missing or damaged, please contact your dealer. Please keep the carton box and packing materials so that you may properly store or transport your monitor.

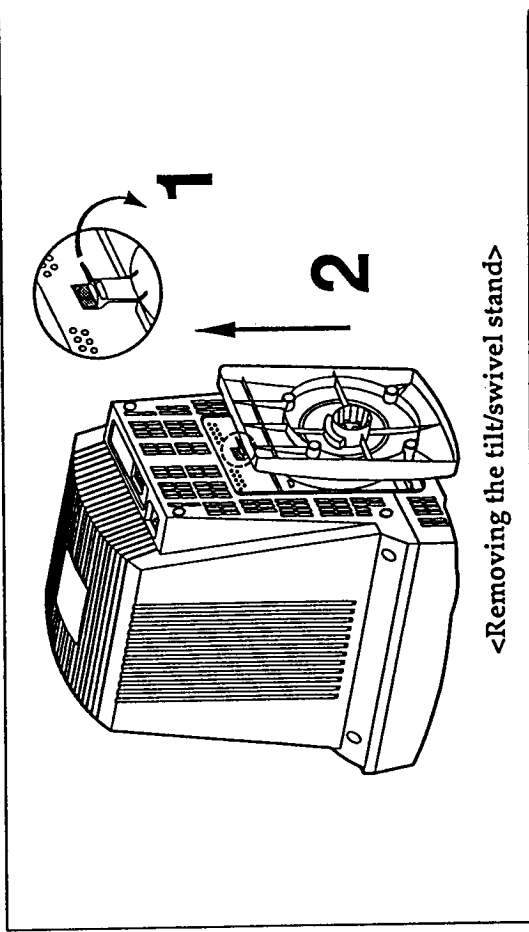
PRODUCT FEATURES

- The convenient and user-friendly on-screen display allows for easy and accurate adjustments of horizontal and vertical screen size and position, geometry and screen color.
- The monitor supports a safe working environment in strict compliance with the TCO '95 standard for low emissions.
- The monitor complies with the VESA Display Data Channel (DDC) specification for "Plug & Play" compatibility. Advanced microcircuitry makes set-up and configuration fast and effortless.
- PictureMate™ allows users to switch instantly from normal to multimedia mode for brighter and higher contrast video and motion pictures.
- The monitor features Advanced Color Controls for fine-tuning to meet your own personal tastes or application requirements. Use the on-screen controls to adjust the color temperature, RGB gain value or RGB bias parameter for the best possible screen color and intensity.
- Press the menu button and activate the Self-Diagnosis menu to determine whether your monitor is functioning normally, not receiving a signal or is receiving a signal that is out of scanning range.
- Just activate the higher refresh rates of the monitor to stabilize the screen and eliminate the annoying flicker that contributes to eye-strain and headaches.
- The "borderless" full-screen display capability works under all graphic modes and provides a larger viewing area than conventional monitors, giving you a better picture with more workspace.

SETUP

INSTALLING THE TILT/SWIVEL STAND

1. Ensure that the power to the monitor is off.
2. Set the monitor face down with the underside facing you. Please be careful so as not to scratch the monitor screen.
3. Align the four hooks on the stand with the guide holes of bottom chassis of the monitor.
4. Insert the hooks into the guide holes.
5. Slide the tilt/swivel stand toward the front of the monitor until the latch locks in position.
6. Turn the monitor and the stand upright.

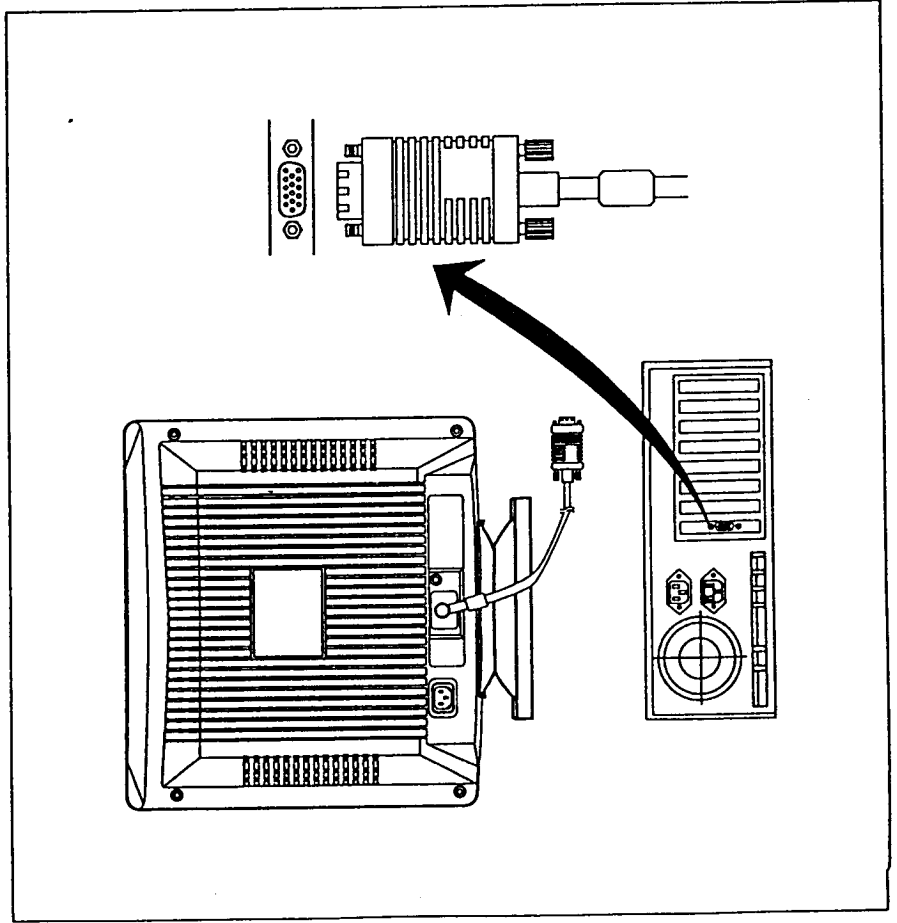


If you want to remove the tilt/swivel stand on the monitor, draw the latch toward you and pull the tilt/swivel stand to the back of the monitor. Lift the stand to separate.

CONNECTING THE SIGNAL CABLE

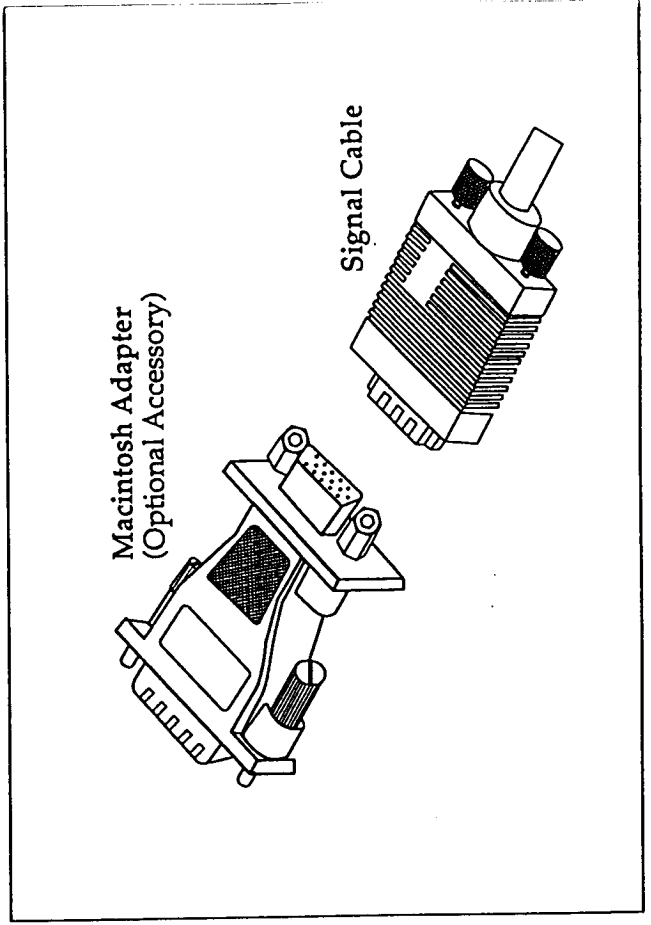
A. CONNECTING THE D-SUB SIGNAL CABLE

1. Turn off the computer and monitor.
2. Connect the 15 pin D-sub connector to the output port of the video card in your computer.
3. Tighten the screws of connector.



B. CONNECTING TO YOUR MACINTOSH COMPUTER

1. Turn off the computer and monitor.
2. Attach the Macintosh cable adapter to the Macintosh video card.
3. Tighten the screws on the cable adapter.
4. Connect the signal cable provided with your monitor to the other end of the Macintosh cable adapter.
5. Tighten the screws between the Macintosh cable adapter and the signal cable.



OPERATION & ADJUSTMENT

CONNECTING THE POWER CORD

1. Plug the power cord into the AC receptacle located at the back of the monitor.
2. Plug the other end of the power cord into the AC outlet.

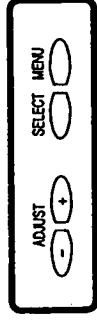
If your power cord is PC to Monitor type, plug the other end of the power cord into the AC receptacle in the computer.

POWER MANAGEMENT SYSTEM

If you use the monitor with a computer which complies with the power saving program, you can set the monitor to go blank when the system has remained unused for a period of time. To specify the period or to disable this feature, set the system timeout field of the computer's system setup program or use special software for power saving. See the computer user's manual for the details of using the system setup. While the monitor is in power saving mode (blank screen), it consumes less power than normal state; the color of the power LED will indicate the state. To restore the screen image, press any key of your keyboard or move your mouse. If the signal cable is connected loosely or disconnected, the power saving feature will operate.

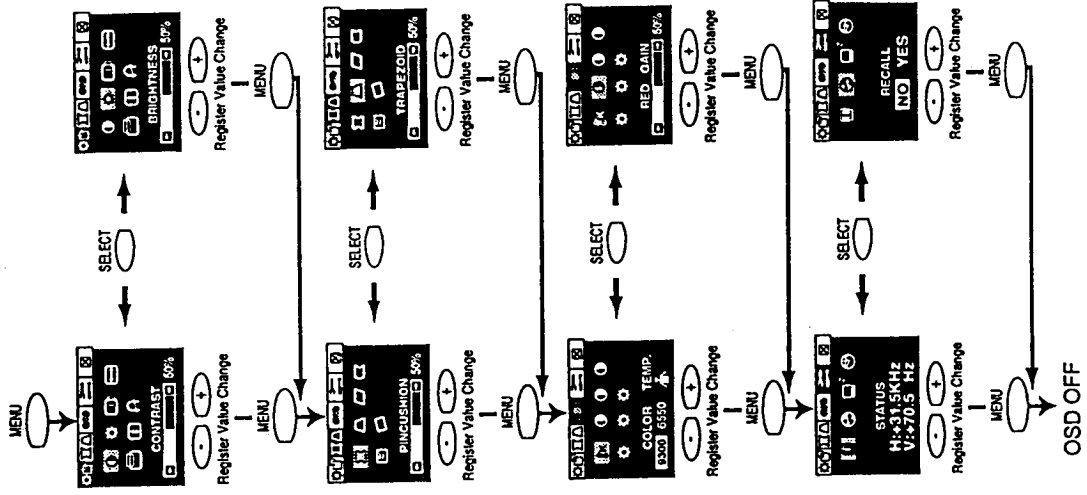
DISPLAY DATA CHANNEL (DDC) FOR PLUG & PLAY

If you use the monitor with a computer which complies with DDC1 / DDC2B of VESA, the Host-Video Card automatically configures itself without your intervention in a way that best fits the attached monitor. The Display Data Channel, DDC, allows the monitor to inform the host system about configuration information for optimum use of the monitor. Use of the Video Card utility is not required to match the resolutions and refresh rates of the monitor and video card.




- : MENU Display & OSD OFF
- : Function Select & Next Function
- : Increase the value of any selected function
- : Decrease the value of any selected function

※ KEY PROCESS



1. OSD(On-Screen Display) Menu 1


- 1) Contrast Function



CONTRAST

50%


 - Adjust the contrast of image, the difference between light and dark areas on the screen.
 - Range : 0 - 100%
- 2) Brightness Function



BRIGHTNESS

50%


 - Adjust the brightness of the entire display.
- 3) H. Position Function



H. POSITION

50%


 - Adjust the position of the display horizontally (left or right).
- 4) H. Size Function



H. SIZE

50%


 - Adjust the display width (horizontal size).
- 5) V. Position Function



V. POSITION

50%

 - Adjust the position of the display vertically (up or down).
- 6) V. Size Function



V. SIZE

50%

 - Adjust the display height(vertical size).
- 7) Degauss Function

A


DEGAUSS YES

NO

 - Clear the spotted screen

2. OSD(On-Screen Display) Menu 2



- 1) Pincushion




PINCUSHION

50%

Adjust the side pincushion/barrel.



 - Image turns to  by +.
 - Image turns to  by -.
- 2) Trapezoid




TRAPEZOID

50%

Adjust the trapezoid.



 - Image turns to  by +.
 - Image turns to  by -.
- 3) Parallelogram




PARALLELOGRAM

50%

Adjust each corner pincushion/barrel.



 - Image turns to  by +.
 - Image turns to  by -.
- 4) Pin Balance




PIN BALANCE

50%

Adjust the side valance.



 - Image turns to  by +.
 - Image turns to  by -.
- 5) V. Moire




V.MOIRE

50%

Eliminate a moire pattern looking like a seires of correctric circles or arcs.



 - Image turns to  by +.
 - Image turns to  by -.
- 6) Rotation



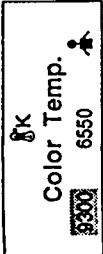
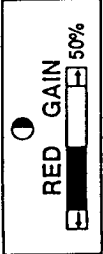



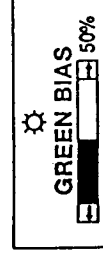

ROTATION

50%





Adjust the rotation coptron.

 - Image turns to  by +.
 - Image turns to  by -.

3. OSD(On-Screen Display) Menu 3

- 1) Color Temperature
 - USER : Load color controlled by user.
 - 9300 : Load color preset by factory.
 - 6550 : Load color preset by factory.
 - 9300/6550 : Color temperature.
- 2) Red Gain.
 - Adjust the red gain.
- 3) Green Gain.
 - Adjust the green gain.
- 4) Blue Gain.
 - Adjust the blue gain.
- 5) Red Bias.
 - Adjust the red bias.
- 6) Green Bias.
 - Adjust the green bias.
- 7) Blue Bias.
 - Adjust the blue bias.

4. OSD(On-Screen Display) Menu 4

- 1) STATUS
 - Display horizontal & vertical frequency and polarity.
- 2) RECALL
 - Reset the screen to the Factory Preset Display Settings.
- 3) POWER SAVER
 - YES : VESA DPMS Operation.
 - NO : NO DPMS Operation.
- 4)
 - Select Language for OSD.

VIDEO MODE SAVING

You can save up to fourteen modes in the user memory automatically. Please note that if you save to user memory over fourteen times, the first mode saved will be replaced with your fifteenth mode.

MAINTENANCE

To clean the monitor, first turn it off and unplug it from its AC outlet. Wipe cabinet of the monitor with a cloth or a paper towel lightly dampened by household glass cleaner. Do not use alcohol, ammonia-based liquid or aerosol spray on the monitor screen. Do not spray a cleaner directly onto the screen. If liquid should soak into the monitor, the internal circuits may be damaged. Use a soft cloth to wipe the monitor screen, because the surface of the CRT is easily scratched.

SPECIFICATIONS

Picture Tube	Type: 17-inch, Flat Square Tube type (16.2-inch, viewing area) Dot Pitch : 0.28mm Face Treatment: Non-glare/ Anti-static												
Video	Input Signal : R.G.B Analog Amp. Bandwidth : 85 MHz Input Sync : TTL, separate negative/positive												
Scan Frequency	Horizontal : 30 ~ 69 KHz Vertical : 50 ~ 120 Hz												
Max. Resolution	1280 dots × 1024 lines (at 60 Hz)												
Power Source	Free Voltage (100-240 Vac, 50/60Hz)												
Display Area	Standard Display Area : 300mm(H) × 225mm(V) Full Screen Size : 332mm(H) × 252mm(V)												
Power Consumption	Max. 100W												
	<table border="1"><thead><tr><th>State</th><th>Recovery Time</th><th>Power LED</th></tr></thead><tbody><tr><td>On</td><td>None</td><td>Green</td></tr><tr><td>Stand-by Suspend</td><td>3 second</td><td>Green:0.5second Amber:1second</td></tr><tr><td>Off</td><td>7 second</td><td>Amber</td></tr></tbody></table>	State	Recovery Time	Power LED	On	None	Green	Stand-by Suspend	3 second	Green:0.5second Amber:1second	Off	7 second	Amber
State	Recovery Time	Power LED											
On	None	Green											
Stand-by Suspend	3 second	Green:0.5second Amber:1second											
Off	7 second	Amber											
Regulatory Approvals	VLF/ELF : MPR II, TCO(Optional) Safety : UL, CSA, TÜV-GS (ZH 1/618/10.80), EMKOS, N, D, FI), DHHS EMI : FCC-B, CISPR 22, CE Ergonomics : ISO 9241.3												

SIGNAL TIMING GUIDE

Tilt/Swivel Range	Tilt : 6.5° forward, 9° backward Swivel : ±45° leftward, rightward
Dimension	420(W) × 441.5(H) × 442(D)mm (set with stand)
Weight (net/Gross)	17.8 / 21.4 kg
Operating Environment	Temperature : 10~40 °C Relative Humidity : 8~80%
Storage Environment	Temperature : -20~45 °C Relative Humidity : 5~90%

Mode	Resolution (dots x lines)	H.Freq (KHz)	V. Freq (Hz)	Remark
VGA	640 x350	31.5	70	Non-interlaced
VGA	720 x400	31.5	70	Non-interlaced
VGA	640 x480	31.5	60	Non-interlaced
Super VGA	800 x600	35.2	56	Non-interlaced
8514/A	1024 x768	35.5	87	Interlaced
VESA VGA72	640 x480	37.9	72	Non-interlaced
VESA SVGA60	800 x600	37.9	60	Non-interlaced
VESA 46K	800 x600	46.9	75	Non-interlaced
XGA 48K	800 x600	48.1	72	Non-interlaced
VESA 1024/60	1024 x768	48.4	60	Non-interlaced
VESA 53K	800 x600	53.7	85	Non-interlaced
XGA 56K	1024 x768	56.5	70	Non-interlaced
VESA 60K	1024 x768	60.0	75	Non-interlaced
COLOR 64K	1280 x1024	64.0	60	Non-interlaced
VESA/75	1152 x864	67.5	75	Non-interlaced
VESA/85	1024 x768	68.7	85	Non-interlaced

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This monitor has stored six timings identified by mark * of the above timings in factory. If any timings which have not been recommended by the factory don't display a fine screen, adjust it by key control.

TROUBLESHOOTING

Symptom	Check
No picture.	Check if POWER SWITCH and COMPUTER POWER SWITCH are in the on position. Check if the signal cable is correctly connected to the video card or the monitor. Check if the video card is completely seated in its slot. Check if the computer is in the power saving mode. Check if the pins of D-sub connector are not bent.
POWER LED is not lit.	Check if POWER SWITCH is in the on position. Check if the power cord is correctly connected.
Image is to unstable.	Check if the signal cable is completely connected to the computer. Check if the signal cable is suitable to the video card.
Image is not centered, too small, or too large.	Adjust H&V SIZE or H&V POSITION to get the proper image.
Picture bounces or a wave pattern is present in the picture.	Keep the devices that may cause electrical interference away from the monitor. See the FCC information at the front cover of the manual.
Color looks blotchy.	Operate DEGAUSSING once.
Picture is blurred.	Adjust CONTRAST and BRIGHTNESS. Operate DEGAUSSING once.
Edges of available area on the screen are not straight.	Adjust PINCUSHION / TRAPEZOID.

APPENDIX DESCRIPTION FOR D-SUB CONNECTOR

Pin	Signal
1	Red
2	Green
3	Blue
4	GND
5	GND (Self - Test)
6	GND - Red
7	GND - Green
8	GND - Blue
9	+5V Load(Optional)
10	GND - H.Sync
11	GND
12	Bi-directional Data (SDA)
13	Horizontal Sync
14	Vertical Sync (VCLK)
15	Data Clock (SCL)

*GND = Ground

