

DAEWOO

USER'S GUIDE

TFT-LCD MONITOR

Model No : LXL-940

IMPORTANT SAFEGUARDS

1. Read all of these instructions.
2. Save these instructions for later use.



3. Unplug this monitor from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

4. Do not use attachments not recommended by the monitor manufacturer as they may cause hazards.

5. Do not use this monitor near water, e.g., near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.



6. Do not place this monitor on an unstable cart, stand, or table. The monitor may fall, causing serious injury to a child or adult, and serious damage to the appliance.



7. Slots and openings in the cabinet and the back or bottom are provided for ventilation, to ensure reliable operation of the monitor, and to protect it from overheating.

These openings must not be blocked or covered. The openings should never be blocked by placing the monitor on a bed, sofa, rug, or other similar surface. This monitor should never be placed near or over a radiator or heat register. This monitor should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.



8. This monitor should be operated only from the type of power source indicated on the marking label. If you are not sure of the power supplied to your home, consult your monitor dealer or local power company.



9. This monitor is equipped with a 3-wire grounding-type plug. That is, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the purpose of the grounding-type plug.



10. Do not allow anything to rest on the power cord. Do not locate this monitor where the cord will be abused by people walking on it.

11. Follow all warnings and instructions marked on the monitor.



12. For added protection for this monitor during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the monitor and/or the computer due to lightning and power line surges.

13. Do not overload wall outlets and extension cords as this can result in fire or electric shock.

14. Never push objects of any kind into this monitor through cabinet slots, as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the monitor.



15. Do not attempt to service this monitor yourself, as opening or removing covers may expose you to dangerous voltages or other hazards. Refer all servicing to qualified service personnel.

16. Unplug this monitor from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a. When the power cord or plug is damaged or frayed.
- b. If liquid has been spilled into the monitor.
- c. If the monitor has been exposed to rain or water.
- d. If the monitor does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore normal operation.
- e. If the monitor has been dropped or the cabinet has been damaged.
- f. When the monitor exhibits a distinct change in performance, this indicates a need for service.



17. When replacement parts are required be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

18. Upon completion of any service or repairs to this monitor, ask the service technician to perform routine safety checks to determine that the monitor is safe to operate.

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 are designed to provide reasonable protection against harmful interference 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 or TV technician for help.

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

CANADIAN NOTICE

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

AVIS CANADIEN

Cet appareil numérique de la Class B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

European Union Notice

Products with the CE Marking comply with both the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms (in brackets are the equivalent international standards):

- EN55022 (CISPR 22) - Electromagnetic Interference
- EN55024 - Immunity Test for ITE Product
- EN60950 (IEC950) - Product Safety
- EN61000-3-2 (IEC555-2) - Power Line Harmonics

As an **ENERGY STAR®** Partner, Daewoo Lucoms co., Ltd has determined that this product meets the Energy Star® guidelines for energy efficiency.

The product is also designed for IT power system with phase to phase voltage of 230V.

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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 guide carefully before installing your monitor, then keep it near your monitor for quick reference.

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

- ◆ TFT LCD monitor
- ◆ Power cord
- ◆ 15 pin signal cable
- ◆ Video cable
- ◆ Audio cable
- ◆ S-Video cable
- ◆ User's guide
- ◆ Warranty card

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

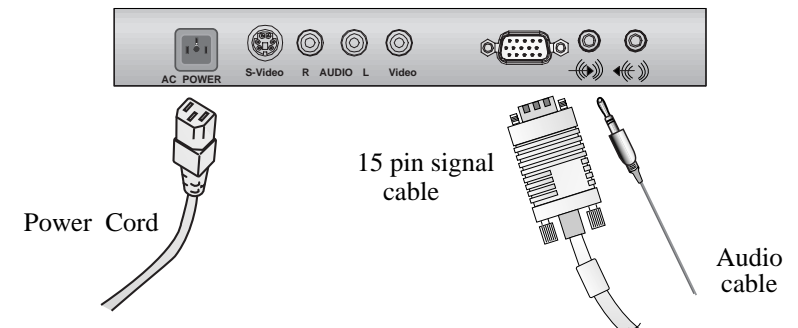
PRODUCT FEATURES

- The monitor is designed for use in a small work area or for those who need more work space on the desk.
- The convenient and user-friendly on-screen display allows for easy and accurate adjustments of screen size, position and screen color.
- The monitor complies with the VESA Display Data Channel (DDC) specification for Plug and Play compatibility. Advanced microcircuitry makes setup and configuration fast and effortless.
- Embedded with VESA DPMS(Display Power Management Signaling), function, it automatically turns into energy save mode to reduce energy consumption when not used for a long time.
- Activate the higher refresh rates of the monitor to stabilize the screen and eliminate the annoying flicker that contributes to eye-strain and headaches.
- With OSD(On Screen display), the monitor display conditions are easily adjusted.
- The internal stereo speakers make the end user enjoy audio sound.
- The monitor supports the optimal display performance with 1280x1024 at 75Hz.
- With the POWER LIGHT function added,you can enjoy the bright screen for movie or any other multimedia utilization.
- The monitor can be connected to various types of video devices with supporting video input signals like Composite video(CVBS), Seperate video(S-Video).

SETUP

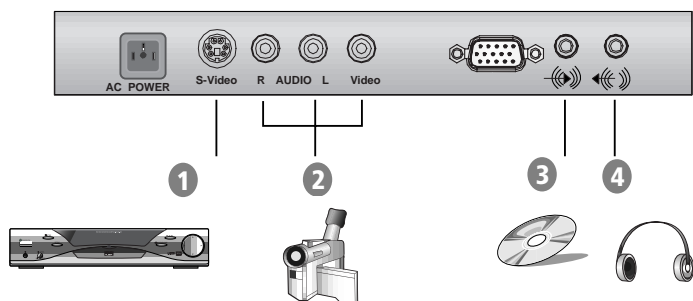
CONNECTING THE 15 PIN SIGNAL CABLE AND POWER CORD

- ① Plug the power cord into the AC receptacle located on the back of the monitor.
- ② Connect the 15 pin signal cable to the output port of the video card in your computer and monitor.
- ③ Connect the audio cable to the output port of the sound card in your computer.



CONNECTING THE OTHERS

1. Plug the connector to the S-Video port ① on the rear of the monitor (ex : VCR, DVD , ---).
2. Plug the connector to the RCA port ② on the rear of the monitor (ex : Camcorder, VCR, DVD, ---).
3. Plug the connector to AUDIO INPUT port ③ on the rear of the monitor (ex : Computer, CD Player, ---).
4. Plug the connector to AUDIO OUTPUT port ④ on the rear of the monitor (ex : Speaker, Headphone, ---).



How to watch DVD, VIDEO

1. Turn on monitor.
2. Choose "SVIDEO" or "VIDEO" connected to DVD player, using buttons of remote controller or SOURCE button from exterior adjustment buttons.
3. Put tape or DVD into VCR or DVD player and play.

OPERATION & ADJUSTMENT

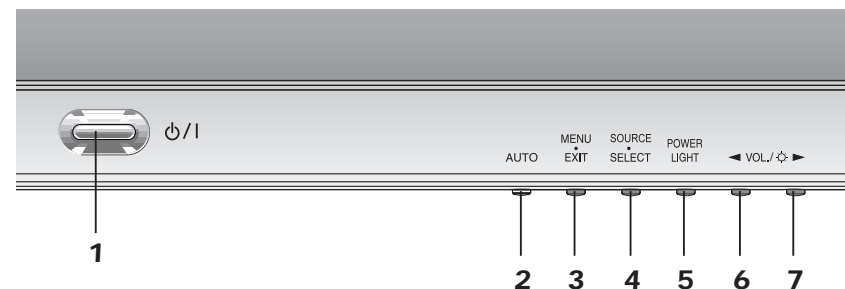
CONTROL PANEL

1 POWER

Switches the monitor on and off.

2 AUTO

Launches the AUTO TRACKING function directly.



3 MENU/EXIT

Turns the OSD window on.

EXIT

Turns the OSD (On-Screen Display) window off and moves from sub menu to top menu in the OSD window.

4 SOURCE/SELECT (*)

Selects input signal in order.

SELECT

Moves from top menu to sub menu in the OSD window and opens the function window for the selected icon.

5 POWERLIGHT (*)

While the OSD screen is off, you can adjust the screen brightness according to each situation.

6 ◀/VOLUME (*)

Moves cursor to the left or high window in the OSD window and decreases value of any selected function.

7 ☀(*)/▶

BRIGHTNESS

While the OSD screen is off, you can adjust the brightness directly.



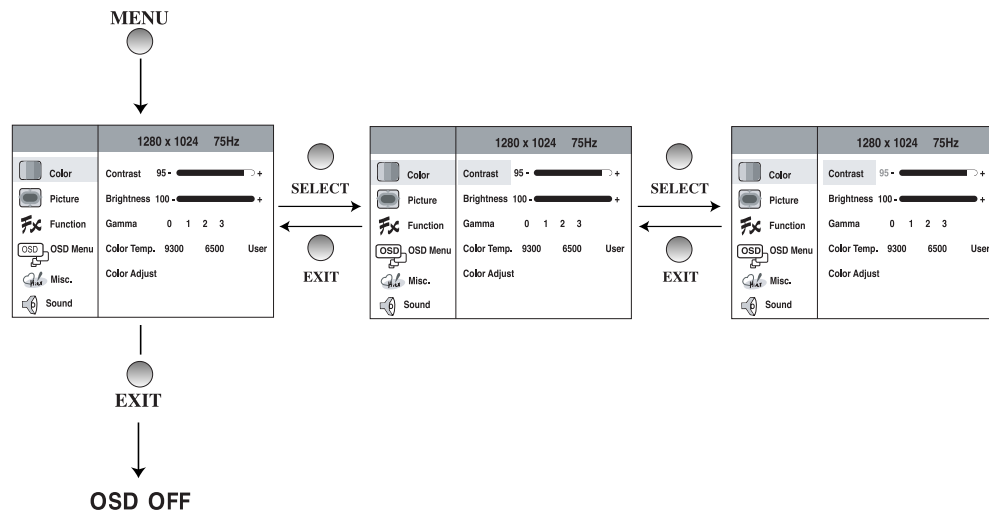
Moves cursor to the right or low window in the OSD window and increases the value of any selected function.

VOLUME

While the OSD screen is off, you can adjust the volume directly.

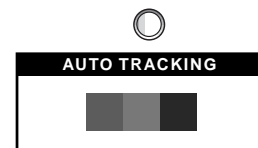
(*) : Hot Key

KEY PROCESS



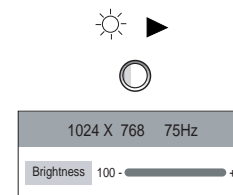
HOT KEY

AUTO



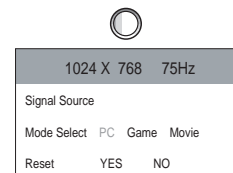
- When there is no OSD, if you press this AUTO button, you can use the best display performance fit for a current mode.

BRIGHTNESS



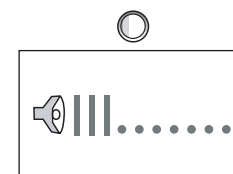
- When there is no OSD, if you press this BRIGHTNESS button, you can adjust the brightness directly.
 - ◀ : decreases brightness
 - ▶ : increases brightness

POWER LIGHT



- The screen will be brightened progressively by 10%. If you carry out general PC works such as document edition on the Movie mode, you may shorten the life span of LCD panel. Thus, it is recommended to verify the selected mode before use.

VOL.



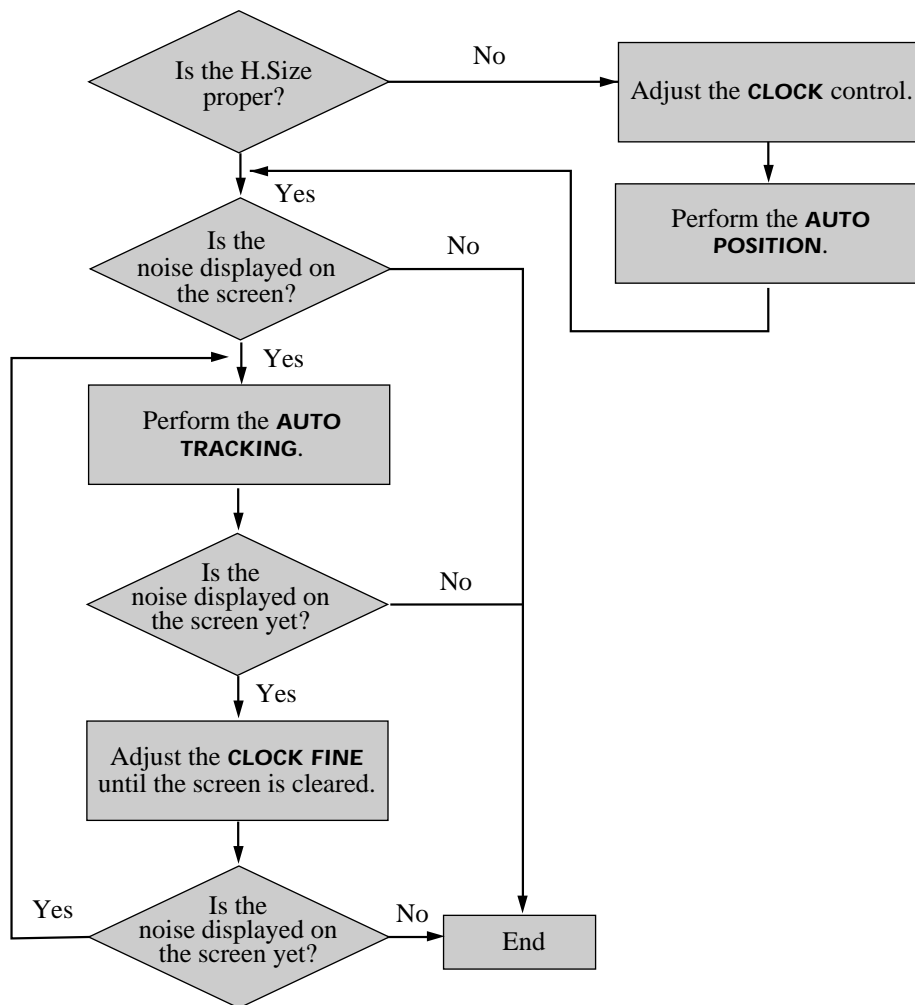
- When there is no OSD, you can adjust the VOLUME directly.

SOURCE



- selects input signal in order.
 - DIGITAL → VIDEO → S-VIDEO → ANALOG

ADJUSTMENT PROCEDURE



OSD FUNCTIONS WITH USING PC

COLOR

CONTRAST	Adjust the contrast of image, the difference between light and dark areas on the screen.
BRIGHTNESS	Adjust the brightness of image.
GAMMA	Adjust the gamma correction.
COLOR TEMP.	Choose different preset color temperatures or set your own customized color parameters.
COLOR ADJUST	Adjust the color.


PICTURE (Unavailable in DVI MODE)

H. POSITION & V. POSITION	Adjust the position of the display horizontally (left or right) and vertically (up or down).
PHASE	Remove any horizontal noise and clear or sharpen the image of characters.
CLOCK	Adjust the width (horizontal size) of the screen image.
SHARPNESS	Adjust the display image quality (if the screen proceed to scaling up).

FUNCTION (Unavailable in DVI MODE)

AUTO Adjust	Choose automatically the proper horizontal position and vertical position & size of the screen image.
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OSD MENU

LANGUAGE	Select language for OSD.
OSD H & V POS.	Adjust the OSD position horizontally (left or right) and vertically (up or down).
OSD TIMER	Adjust the display OSD Menu.
Tranlucent	Adjust the OSD. Transparency
MISC. 	
SIGNAL SOURCE	Select input signal source.
POWER LIGHT	Select powerlight mode(PC/Game/Movie)
RESET	Reset the screen to the Factory Preset Display Settings.

OSD FUNCTIONS WITH USING VIDEO and S-VIDEO**PICTURE**

CONTRAST	Adjust the contrast of image.
BRIGHTNESS	Adjust the brightness of image.
SATURATION	Adjust saturation of image.
HUE	Adjust the hues of image.
SHARPNESS	Adjust the display image quality (if the screen proceed to scaling up).

OSD MENU



LANGUAGE	Select language for OSD.
OSD H & V POS.	Adjust the OSD position horizontally (left or right) and vertically (up or down).
OSD TIMER	Adjust the display OSD Menu.
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SIGNAL SOURCE	Select input signal source.
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RESET	Reset the screen to the Factory Preset Display Settings.




SOUND

SOUND	Turn the audio sound on or off.
VOLUME	Increase or decrease audio volume.

SELF DIAGNOSIS



If there is no image, the Self Diagnosis screen will be displayed.
Self Diagnosis function checks if the status of the monitor screen is No Signal, Out of range or None support .

- 1  No Signal screen is displayed when the D-Sub signal connector is connected but the status of the monitor is on DPMS mode.
- 2  Out of Range screen is displayed when the applied frequency is under or over normal range.

 Normal range
 (Non-interlaced mode only)
 H : 30 - 80 KHz
 V : 56 - 77 Hz
- 3  None support screen is displayed when the applied frequency is under or over factory preset timings.
- 4  Check cable screen is displayed when the signal cable is disconnected.

SPECIFICATIONS

Panel	Size	19-inch diagonal
	Pixel Pitch	0.098(H)mm x 0.294(V) mm
	Viewing Angle	85°(Right/Left)
		85°(up/down)
	Contrast Ratio	500:1 contrast ratio (typ)
	Brightness	250cd/m ² brightness (typ)
	Color Filter	RGB vertical stripe
Synchronization	Horizontal	30 - 80 KHz
	Vertical	56 - 77 Hz
Video Bandwidth		135 MHz
Max Resolution		1280 x 1024 @75Hz
Colors		16M Colors
Display Area		376.32(H)mm x 301.056(V)mm
PC Input Signal	Sync	H/V separate (TTL)
	Video	15 pin mini D-sub(Analog RGB)
AV Input Signal	Video	CVBS(RCA), S-Video(Mini-DIN)
	Audio	RCA Left+Right Input Stereo Mini Jack Input & Output
Speaker	Max. Output	2W(Left 1W+Right 1W)
Plug and Play		VESA DDC Compatible
Power Source		100-240 Vac, 50/60 Hz (Free Voltage)
Power Consumption		40 W
Dimension-W x H x D		418.5 x 435.4 x 263 mm (with stand)
		418.5 x 364.5 x 70.8 mm (without stand)
Weight-net/gross		7.6/9.2Kg(16.7/20.3 lbs)
Power Saving		EPA, VESA DPMS, Nutek Compliant
Tilt Range		5° forward, 30° backward
Operating Temperature		10 ~ 40°C /50 ~ 104°F

-  The specification can be changed without any prior notice to improve the quality of the product.
-  The LCD panel may have some defective pixels (e.g. slightly light or dark) due to a characteristic of the LCD panel. But there is no defect in your LCD product itself.

FACTORY PRESET TIMINGS

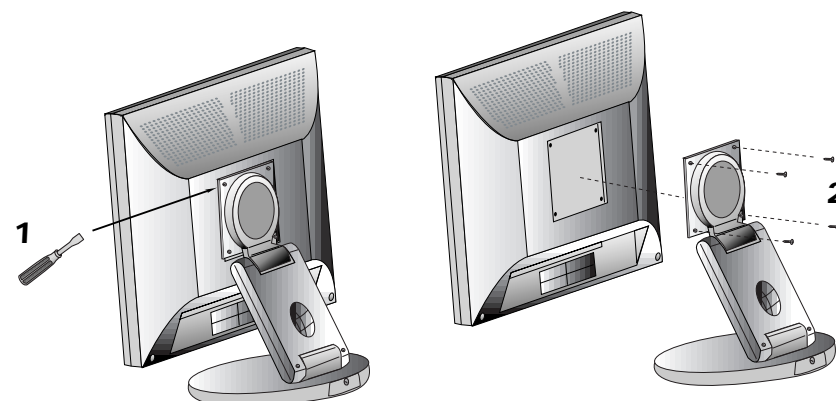
VESA MODES				
Mode	Resolution (dots X lines)	H.Freq (KHz)	V.Freq (Hz)	Remark
VGA	640 X 480 @ 60Hz	31.5	60	Non-interlaced
VGA	640 X 480 @ 72Hz	37.9	72	Non-interlaced
VGA	640 X 480 @ 75Hz	37.5	75	Non-interlaced
SVGA	800 X 600 @ 56Hz	35.2	56	Non-interlaced
SVGA	800 X 600 @ 60Hz	37.9	60	Non-interlaced
SVGA	800 X 600 @ 72Hz	48.1	72	Non-interlaced
SVGA	800 X 600 @ 75Hz	46.9	75	Non-interlaced
XGA	1024 X 768 @ 60Hz	48.4	60	Non-interlaced
XGA	1024 X 768 @ 70Hz	56.5	70	Non-interlaced
XGA	1024 X 768 @ 75Hz	60.0	75	Non-interlaced
SXGA	1280 X 1024 @ 60Hz	64.0	60	Non-interlaced
SXGA	1280 X 1024 @ 75Hz	80.0	75	Non-interlaced
SXGA	1152 X 864 @ 75Hz	67.5	75	Non-interlaced
SXGA	1280 X 960 @ 60Hz	60.0	60	Non-interlaced
IBM MODES				
Mode	Resolution (dots X lines)	H.Freq (KHz)	V.Freq (Hz)	Remark
EGA	640 X 350 @ 70Hz	31.5	70	Non-interlaced
DOS	720 X 400 @ 70Hz	31.3	70	Non-interlaced
MAC MODES				
Mode	Resolution (dots X lines)	H.Freq (KHz)	V.Freq (Hz)	Remark
VGA	640 X 480 @ 67Hz	35.0	67	Non-interlaced
SVGA	832 X 624 @ 75Hz	49.7	75	Non-interlaced
SXGA	1152 X 870 @ 75Hz	68.7	75	Non-interlaced
THE OTHERS				
Mode	Resolution (dots X lines)	H.Freq (KHz)	V.Freq (Hz)	Remark
SXGA	1280 X 1024 @ 70Hz	74.4	70	Non-interlaced

- The LCD Monitor has only Non-interlaced modes without flicker.

CHANGING THE STAND

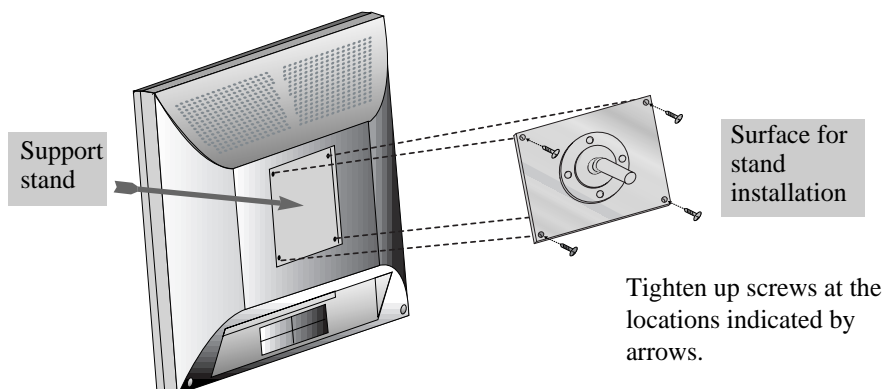
Removing Original Stand

- Turn off the monitor and pull out the power cable.
- Place a cushion or a soft cloth on the floor and put the product on it with the front of the monitor facing the floor.



1. Detach the rear cover of the stand with a screwdriver.
2. Remove the four screws connecting the stand and the body and the stand is disassembled.

Attaching the monitor with the arm-stand(option)



- This monitor's installation surface is compatible with various kinds of VESA standard stands.
- Hole spacing : 100x100 mm
- Screw Length : 8~12 mm

TROUBLESHOOTING

Symptom	Check
Picture is jitterd.	Adjust Clock to set the screen position and adjust Clock fine until a noise isn't displayed.
No picture.	<p>Check if power switch and computer power switch are in the on position.</p> <p>↓</p> <p>Check if the signal cable is correctly connected to the video card.</p> <p>↓</p> <p>Check if the pins of D subconnector are not bent.</p> <p>↓</p> <p>Check if the computer is in the power- saving mode.</p>
POWER LED is not lit.	<p>Check if power switch is in the on position.</p> <p>↓</p> <p>Check if the power cord is correctly connected.</p>
Image is unstable.	Check if the signal cable is suitable to the video card.
Image is not centered, too small or too large.	Adjust Clock or H&V Center 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.
Picture is blurred.	Adjust Contrast and Brightness.

Symptom	Check
No sound.	Check the audio cable are correctly connected to the computer.
	↓
	Adjust the volume after checking the sound is muted.
	↓
	Check the audio system in the computer.
Low sound.	Adjust the volume on the OSD Menu.
	↓
	Adjust the volume of the sound card in the computer.
No video.	Check if the video cable is correctly connected to the computer and set to the video mode.

S/N:XL78600906