

Color Monitor



P92

Operating Instructions

EN



To avoid shock hazard:

- Do not remove the covers.
- Do not operate this product unless the stand is attached.
- Do not connect or disconnect this product during an electrical storm.
- The power cord plug must be connected to a properly wired and grounded power outlet.
- Any equipment to which this product will be attached must also be connected to properly wired and grounded power outlets.
- To isolate the monitor from the electrical supply, you must remove the plug from the power outlet. The power outlet should be easily accessible.

Handling:

- Your color monitor is heavy, so handle it with care. IBM recommends that this monitor is moved or lifted by two people.



Pour éviter les risques d'électrocution :

- Ne retirez pas les capots du moniteur.
- N'utilisez pas ce produit si le socle n'est pas fixé.
- Ne connectez, ni ne déconnectez ce produit pendant un orage.
- Le câble d'alimentation doit être connecté à une prise électrique correctement mise à la terre et en bon état de marche.
- Tout équipement auquel ce produit est relié doit être également connecté à une prise correctement mise à la terre et en bon état de marche.
- Pour isoler le moniteur de la source d'alimentation électrique, vous devez le débrancher de la prise électrique. Cette prise doit être facile d'accès

Manutention :

- Votre moniteur couleurs est lourd et doit donc être manipulé avec soin. IBM vous conseille de le déplacer ou de le porter à deux.



Um die Gefahr eines elektrischen Schlags zu vermeiden, folgendes beachten:

- Unter keinen Umständen die Abdeckungen abnehmen.
- Das Produkt nicht in Betrieb nehmen, wenn der Sockel nicht montiert ist.
- Das Gerät nicht während eines Gewitters an eine Steckdose anschließen oder von ihr trennen.
- Das Netzkabel ist an eine ordnungsgemäß verdrahtete und geerdete Steckdose anzuschließen.
- Jedes Gerät, mit dem dieses Produkt verbunden wird, muß ebenfalls an eine ordnungsgemäß verdrahtete und geerdete Steckdose angeschlossen werden.
- Um den Monitor von der Stromversorgung zu trennen, muß der Stecker aus der Steckdose gezogen werden. Die Steckdose sollte leicht zugänglich sein.

Handhabungshinweis:

- Ihr Farbbildschirm ist schwer. Sie sollten daher beim Transport vorsichtig vorgehen. IBM empfiehlt Ihnen, den Bildschirm zu zweit anzuheben bzw. zu tragen.



Ga als volgt te werk om het gevaar van een elektrische schok te voorkomen:

- Verwijder in geen enkel geval de kap.
- Stel dit produkt alleen in werking als de voet is bevestigd.
- Sluit dit apparaat niet aan op, of verbreek de aansluiting van dit apparaat niet van een contactdoos tijdens onweer.
- Het netsnoer moet worden aangesloten op een geaarde contactdoos met correcte bedrading.
- Ook alle apparatuur waarop dit produkt wordt aangesloten moet zijn aangesloten op een contactdoos met correcte bedrading.
- Om het beeldscherm te ontkoppelen van de netvoeding, dient u de stekker uit de contactdoos te trekken. De contactdoos dient goed toegankelijk te zijn.

Verplaatsing:

- Uw kleurenmonitor is zwaar, ga er dus voorzichtig mee om. IBM raadt aan dat het tillen of verplaatsen ervan door twee mensen gebeurt.

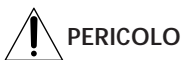


Para evitar riesgos de descargas eléctricas:

- No retire bajo ningún concepto las cubiertas.
- No maneje el monitor sin antes acoplar el soporte.
- No conecte ni desconecte el equipo de una toma de alimentación durante una tormenta eléctrica.
- El cable de alimentación debe estar conectado a un enchufe debidamente cableado y con toma de tierra.
- Cualquier equipo al que se vaya a conectar este producto también debe estar conectado a tomas de alimentación cableadas y conectadas a tierra correctamente.
- Para aislar el monitor del suministro eléctrico, debe retirar el enchufe de la toma de alimentación. Esta toma deberá ser de fácil acceso.

Movimentazione del monitor:

- Il monitor a colori è pesante, si consiglia quindi di maneggiarlo con attenzione. IBM raccomanda che il monitor venga mosso o sollevato da due persone.



Per evitare il rischio di scariche elettriche:

- Non rimuovere nessuna parte del telaio.
- Non accendere il prodotto se il piedistallo non è stato montato.
- Non collegare o scollegare il prodotto nel corso di un temporale.
- La spina del cavo di alimentazione deve essere collegata ad una presa di corrente con messa a terra, installata in maniera appropriata.
- Le apparecchiature a cui il prodotto viene attaccato devono essere collegate a prese di corrente con messa a terra, installate in maniera appropriata.
- Per isolare il monitor dalla corrente elettrica, staccare la spina dalla presa di alimentazione, che deve essere facilmente accessibile.

Manipulación:

- El monitor de color es pesado, por lo que debe manipularlo con cuidado. IBM recomienda moverlo con la ayuda de dos personas.



Para evitar o perigo de choques eléctricos:

- Não retire as coberturas.
- Não utilize este produto antes de montar a base.
- Não ligue nem desligue este produto durante uma tempestade eléctrica.
- O cabo de alimentação deve ser ligado a uma tomada eléctrica devidamente ligada à terra.
- Qualquer equipamento ligado a este produto deve estar ligado a tomadas eléctricas devidamente ligadas à terra.
- Para isolar o monitor da fonte de alimentação, retire a ficha do cabo de alimentação da tomada eléctrica. A tomada eléctrica deve ser de fácil acesso.

Manuseio:

- Seu monitor colorido é pesado, então manuseie-o com cuidado. A IBM recomenda que o monitor seja movido ou carregado por duas pessoas.



Sådan undgår du elektrisk stød:

- Kabinettet må under ingen omstændigheder fjernes.
- Undgå at anvende dette produkt, uden at vippe/drejefoden er monteret.
- Undgå at tilslutte eller frakoble dette produkt i tordenvejr.
- Netledningen skal være tilsluttet en korrekt jordet stikkontakt med korrekt ledningsføring.
- Alt udstyr, som tilsluttes dette produkt, skal også være tilsluttet korrekt jordede stikkontakter med korrekt ledningsføring.
- For at isolere skærmen fra strømforsyningen, skal stikket tages ud af stikkontakten. Stikkontakten bør være let tilgængelig.

Håndtering:

- Farveskærmen er tung, så den skal håndteres forsigtigt. IBM anbefaler, at skærmen flyttes eller løftes af to personer.



FARE

Slik unngår du fare for elektrisk støt:

- Ikke ta av dekslene.
- Ikke bruk produktet dersom sokkelen ikke er montert.
- Ikke koble produktet til eller fra under tordenvær.
- Pluggen på strømledningen må kobles til korrekt montert og jordet strømuttak.
- Utstyr som dette produktet eventuelt blir koblet til, må også kobles til korrekt montert og jordet strømuttak.
- For å isolere skjermen fra strømkilden må du ta ut pluggen fra strømuttaket. Strømuttaket bør være lett tilgjengelig.

Käsittely:

- Värinäyttö on painava, joten käsittele sitä varoen. IBM suosittelee, että kaksi henkilöä siirtää tai nostaa sitä.



Varning - livsfara

För att undvika risk för elektriska stötar måste du tänka på följande:

- Ta inte bort några skyddskåpor.
- Använd inte den här produkten innan du har satt fast stativet.
- Anslut inte produkten till ett eluttag under åskväder. Koppla inte heller ur produkten från ett eluttag under åskväder.
- Strömkabeln måste anslutas till ett felfritt och jordat uttag.
- All utrustning som den här produkten kopplas till måste också anslutas till felfria och jordade uttag.
- För att bryta strömmen till bildskärmen måste du dra ut kontakten. Vägguttaget bör vara lätt att komma åt.

Hantering:

- Färgskärmen är tung och bör därför hanteras försiktigt. IBM rekommenderar att den flyttas eller lyfts av två personer.



VAARA

Sähköiskun vaaran välttämiseksi:

- Älä avaa laitteen kansia missään tilanteessa.
- Älä käytä laitetta, ellei jalustaa ole kiinnitetty.
- Älä kytke laitetta pistorasiaan tai irrota sitä pistorasiasta ukonilman aikana.
- Virtajohto on kytkettävä asianmukaisesti johdotettuun ja maadoitettuun pistorasiaan.
- Kaikki muutkin laitteet, joihin tämä tuote on liitetty, on kytkettävä asianmukaisesti johdotettuihin pistorasioihin.
- Kun haluat erottaa näyttimen sähköverkosta, sinun pitää irrottaa sen verkkojohto pistorasiasta. Pistorasian pitäisi olla mahdollisimman lähellä näyttintä ja vaivattomasti käsillä.

Håndtering:

- Värimonitorinne on painava, joten käsitelkää sitä varovasti. IBM suosittelee, että monitorin siirtämiseen tai kantamiseen käytetään kahta henkilöä.



ΚΙΝΔΥΝΟΣ

Για την αποφυγή κινδύνου ηλεκτροπληξίας:

- Μην αφαιρείτε τα καλύμματα.
- Μη θέτετε το προϊόν αυτό σε λειτουργία χωρίς να είναι στερεωμένη η βάση του.
- Μη συνδέετε ή αποσυνδέετε το προϊόν αυτό κατά τη διάρκεια ηλεκτροθύελλας.
- Το φως του καλωδίου ρευματολήπτη πρέπει να συνδεθεί σε μια πρίζα με σωστή καλωδίωση και γείωση.
- Κάθε συσκευή στην οποία συνδεθεί αυτό το προϊόν πρέπει επίσης να συνδεθεί σε πρίζα με σωστή καλωδίωση και γείωση.
- Για να απομονώσετε την οθόνη από την παροχή ρεύματος, πρέπει να αφαιρέσετε το φως από την πρίζα. Η πρίζα πρέπει να είναι σε σημείο εύκολα προσβάσιμο.

Χειρισμός:

- Η έγχρωμη οθόνη σας είναι βαριά, γι' αυτό χειριστείτε την με προσοχή. Η IBM συνιστά η οθόνη να μεταφέρεται ή να σηκώνεται από δύο άτομα.



TEHLİKE

Elektrik çarpması tehlikesinden kaçınmak için:

- Kapakları çıkarmayınız.
- Bu cihazı kadesine takılı durumda değilken çalıştırmayınız.
- Bu cihazı elektriksel fırtına sırasında prize takmayınız veya prizden çıkarmayınız.
- Elektrik kablosunun fişi, elektrik ve toprak bağlantıları usulüne uygun olarak yapılmış bir prize takılmalıdır.
- Bu cihazın bağlanacağı diğer tüm cihazlar da elektrik ve toprak bağlantıları usulüne uygun olarak yapılmış prize takılmış olmalıdır.
- Monitörün elektrikle bağlantısını kesmek için fişini prizden çekmeniz gereklidir. Priz, kolayca erişilebilecek bir yerde olmalıdır.

Kaldırma:

- Renkli monitörünüz ağırdır; kaldırırken dikkatli olunuz. IBM, monitörün iki kişi tarafından taşınmasını veya kaldırılmasını tavsiye etmektedir.

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- Furthermore, "™" and "®" are not mentioned in each case in this manual.

Precautions

Installation

- Prevent internal heat build-up by allowing adequate air circulation. Do not place the monitor on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.
- Do not install the monitor near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- Do not place the monitor near equipment which generates magnetism, such as a transformer or high voltage power lines.

Maintenance

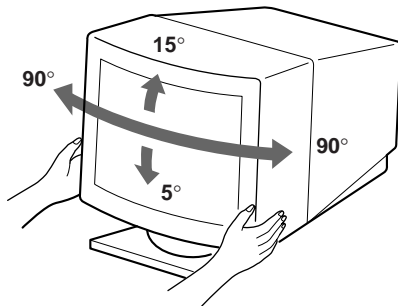
- Clean the cabinet, panel and controls with a soft cloth lightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent, such as alcohol or benzine.
- Do not rub, touch, or tap the surface of the screen with sharp or abrasive items such as a ballpoint pen or screwdriver. This type of contact may result in a scratched picture tube.
- Clean the screen with a soft cloth. If you use a glass cleaning liquid, do not use any type of cleaner containing an anti-static solution or similar additive as this may scratch the screen's coating.

Transportation

When you transport this monitor for repair or shipment, use the original carton and packing materials.

Use of the Tilt-Swivel

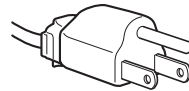
With the tilt-swivel, this monitor can be adjusted to the desired angle within 180° horizontally and 20° vertically. To turn the monitor vertically and horizontally, hold it at the bottom with both hands as illustrated below.



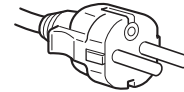
Warning on power connection

- Use an appropriate power cord for your local power supply.

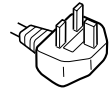
Examples of plug types



for 100 to 120 V AC



for 200 to 240 V AC



for 240 V AC only

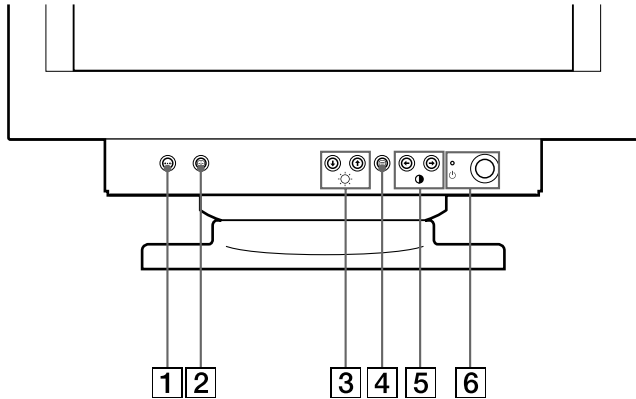
- Before disconnecting the power cord, wait at least 30 seconds after turning off the power to allow the static electricity on the CRT display surface to discharge.
- After the power has been turned on, the CRT is demagnetized (degaussed) for about 3 seconds. This generates a strong magnetic field around the metal frame, which may affect the data stored on magnetic tapes and disks near the bezel. Place magnetic recording equipment, tapes and disks away from this monitor.

The outlet should be installed near the equipment and be easily accessible.

Identifying Parts and Controls

See the pages in parentheses for further details.

Front

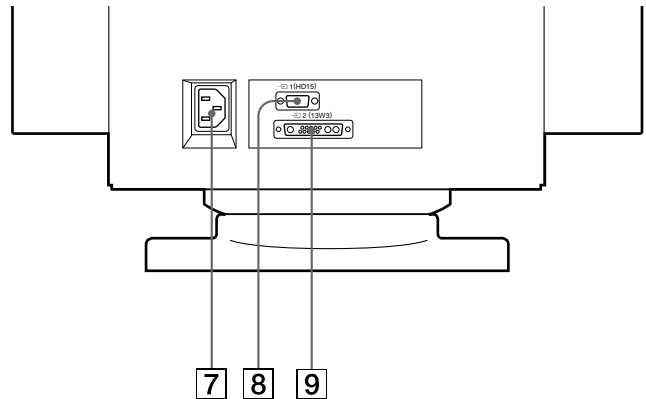


- 1** **(reset) button (page 14)**
Resets the adjustments to the factory settings.
- 2** **(auto sizing and centering) button (page 5)**
Automatically adjusts the size and centering of the images.
- 3** **(brightness) (↓/↑) buttons (pages 5 - 14)**
Adjust the picture brightness.

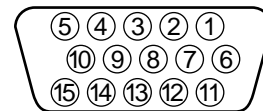
Function as the (↓/↑) buttons when adjusting other items.
- 4** **(menu) button (pages 5 - 14)**
Displays the MENU OSD.
- 5** **(contrast) (←/→) buttons (pages 5 - 14, 18)**
Adjust the contrast.

Function as the (←/→) buttons when adjusting other items.
- 6** **(power) switch and indicator (pages 15, 18)**
Turns the monitor on or off.
The indicator lights up in green when the monitor is turned on, and lights up in orange when the monitor is in power saving mode.

Rear



- 7** **AC IN connector**
Provides AC power to the monitor.
- 8** **Video input 1 connector (HD15)**
Inputs RGB video signals (0.700 Vp-p, positive) and SYNC signals.



Pin No.	Signal	Pin No.	Signal
1	Red	8	Blue Ground
2	Green (Composite Sync on Green)	9	DDC + 5V*
		10	Ground
		11	ID (Ground)
3	Blue	12	Bi-Directional Data (SDA)*
4	ID (Ground)		
5	DDC Ground*	13	H. Sync
6	Red Ground	14	V. Sync
7	Green Ground	15	Data Clock(SCL)*

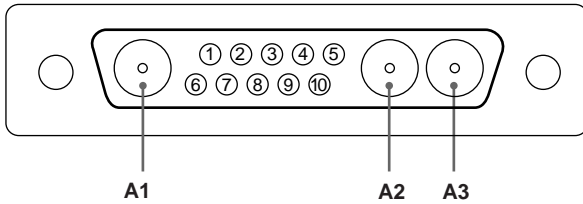
* Display Data Channel (DDC) Standard of VESA

(continued)

Getting Started

9 Video input 2 connector (13W3 cable)

Inputs RGB video signal (0.700 Vp-p, positive).



Pin No.	Signal	Pin No.	Signal
A1	Red Video & Ground	4	Ground
A2	Green Video & Ground	5	C.Sync*
A3	Blue Video & Ground	6	--
1	--	7	Bi-Directional Data (SDA)**
2	Data Clock (SCL)**	8	DDC + 5V**
3	--	9	V.Sync
		10	Ground

* Pins serve a dual purpose as combined sync input and as H.sync input if V.Sync is present on pin no. 9.

** Display Data Channel (DDC) Standard by VESA

Note

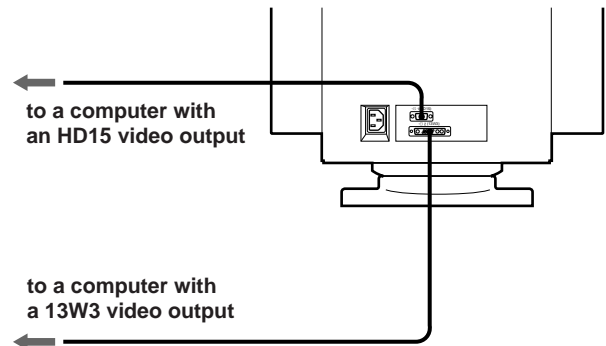
If you use a computer or video board of high output level (about 1.0 Vp-p), you may not be able to obtain the optimum display. In such case, try decreasing the picture contrast, or use a computer or video board with a lower output level.

Setup

This monitor works with platforms running at horizontal frequencies between 30 and 94 kHz.

Step 1: Connect the monitor to the computer

With the computer switched off, connect the video signal cable to the video output of the computer.

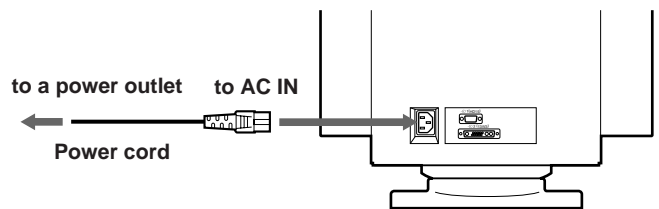


Note

Do not short the pins of the video signal cable.

Step 2: Connect the power cord

With the monitor switched off, connect one end of the proper power cord for your local supply to the monitor and the other end to a power outlet.




Step 3: Turn on the monitor and computer


The installation of your monitor is complete.

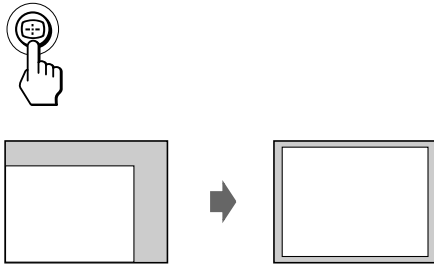
Note

If "OUT OF SCAN RANGE" or "NO INPUT SIGNAL" appears on the screen, see "Warning Messages" on page 16.

Automatically Adjusting the Size and Centering of the Picture

By pressing the  button, the size and centering of the picture are automatically adjusted to fit the screen.

- 1 Turn on the monitor and computer.
- 2 Press the  button.
The picture is adjusted to fit the center of the screen.



Notes


- This function is intended for use with a computer running graphic user interface software that provides a full-screen picture. It may not work properly if the background color is dark or if the input picture does not fill the screen to the edges.
- The screen may go blank for a few seconds while performing the auto-sizing function. This is not a malfunction.
- Although the signals for picture aspect ratio 5:4 (resolution: 1280 × 1024) do not fill the screen to the edges, the picture is accurately displayed.

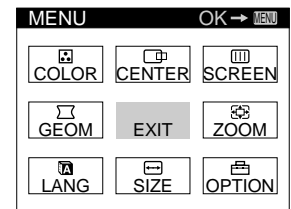
Selecting the On-screen Display Language




If you need to change the OSD language, see “Using the LANG (Language) On-screen Display” on page 14. The default setting is English.

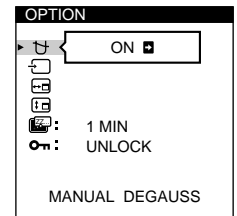
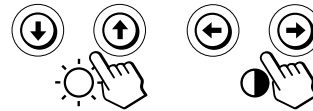
Selecting the Input Signal

This monitor has two signal input connectors (HD15 and 13W3) and can be connected to two computers simultaneously. Select the input signal you want to view as follows.

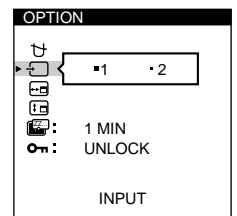
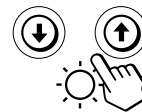
- 1 Turn on the monitor and both computers.
- 2 Press the  button.
The MENU OSD appears.



- 3 Press the /↑ and ←/→ buttons to select “ OPTION,” and press the  button again.
The OPTION OSD appears.

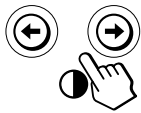


- 4 Press the /↑ buttons to select “ (INPUT).”



(continued)

- 5 Press the  buttons to select "1" or "2."



When "1" is selected

The signal from the computer connected to the HD15 connector is input to the monitor.

When "2" is selected

The signal from the computer connected to the 13W3 connector is input to the monitor.

The OPTION OSD automatically disappears after about 30 seconds.


To close the OSD, press the  button again.

For more information on using the OSD, see "Introducing the On-screen Display System" on page 7.

When you connect computers to both connectors





If you restart the computer you want to view, or that computer is in power saving mode, the monitor may automatically select the other connector's signal. This is because the monitor switches from the interrupted signal to the constant signal. If this happens, manually select the desired signal.

Before adjusting

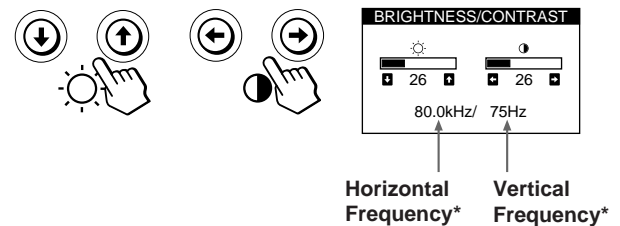
- Connect the monitor and the computer, and turn them on.
- Select "  LANG" in the MENU OSD, then select "ENGLISH" (see page 14).

Adjusting the Picture Brightness and Contrast

Once the setting is adjusted, it will be stored in memory for all input signals received.

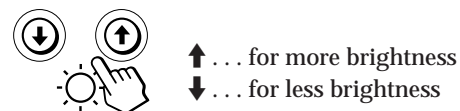
- 1 Press the  (brightness)  or  (contrast)  buttons.

The BRIGHTNESS/CONTRAST OSD appears.



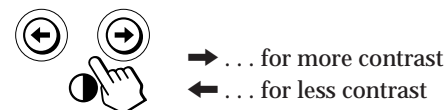
- 2 For brightness adjustment

Press the   buttons.




For contrast adjustment

Press the   buttons.



The OSD automatically disappears after about 3 seconds.

To reset, press the  (reset) button while the OSD is on. The brightness and contrast are both reset to the factory settings.

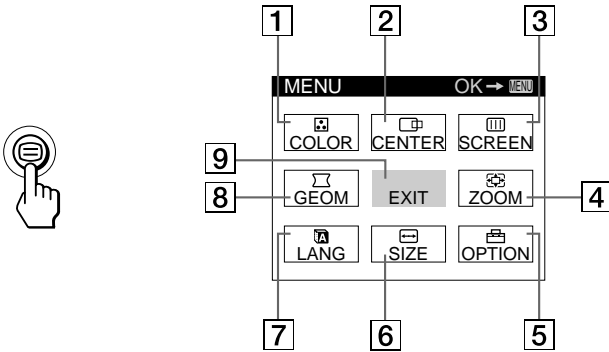
* The horizontal and vertical frequencies for the received input signal appear in the BRIGHTNESS/CONTRAST OSD.









Introducing the On-screen Display System

Most adjustments are made using the MENU OSD.

MENU OSD

Press the  button to display the MENU OSD. This MENU OSD contains links to the other OSDs described below.










- 1**  **COLOR**
Displays the COLOR OSD for adjusting the color temperature.
- 2**  **CENTER**
Displays the CENTER OSD for adjusting the centering of the picture.
- 3**  **SCREEN**
Displays the SCREEN OSD for adjusting the vertical and horizontal convergence, etc.
- 4**  **ZOOM**
Displays the ZOOM OSD for enlarging and reducing the picture.
- 5**  **OPTION**
Displays the OPTION OSD for adjusting the OSD position and degaussing the screen, etc.
- 6**  **SIZE**
Displays the SIZE OSD for adjusting the picture size.
- 7**  **LANG**
Displays the LANGUAGE OSD for selecting the language.
- 8**  **GEOM**
Displays the GEOMETRY OSD for adjusting the picture rotation and pincushion, etc.
- 9** **EXIT**
Closes the MENU OSD.

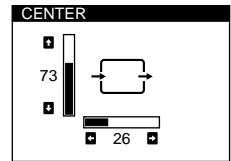
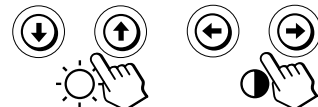
Using the CENTER On-screen Display

The CENTER settings allow you to adjust the centering of the picture. Once the setting is adjusted, it will be stored in memory for the current input signal.

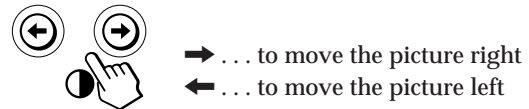
- 1** Press the  button.
The MENU OSD appears.



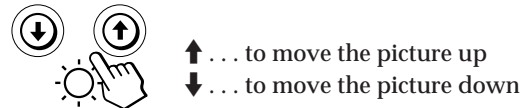
- 2** Press the   /  and  /  buttons to select "  CENTER," and press the  button again.
The CENTER OSD appears.





- 3** For horizontal adjustment
Press the  /  buttons.



- For vertical adjustment
Press the   /  buttons.




The OSD automatically disappears after about 30 seconds. To close the OSD, press the  button again.




To reset, press the  (reset) button while the OSD is on. The horizontal and vertical centerings are both reset to the factory settings.

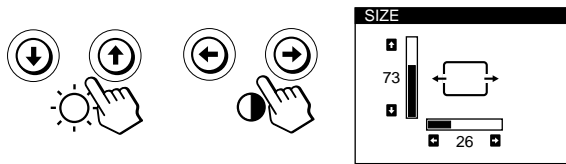
Using the SIZE On-screen Display

The SIZE settings allow you to adjust the size of the picture. Once the setting is adjusted, it will be stored in memory for the current input signal.

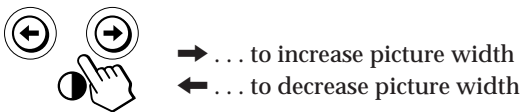
- 1 Press the  button.
The MENU OSD appears.



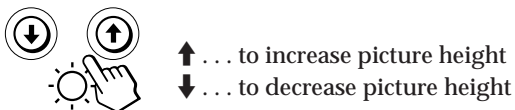
- 2 Press the  and  buttons to select "SIZE," and press the  button again.
The SIZE OSD appears.





- 3 For horizontal adjustment
Press the  buttons.



For vertical adjustment
Press the  buttons.



The OSD automatically disappears after about 30 seconds. To close the OSD, press the  button again.




To reset, press the  (reset) button while the OSD is on. The horizontal and vertical sizes are both reset to the factory settings.

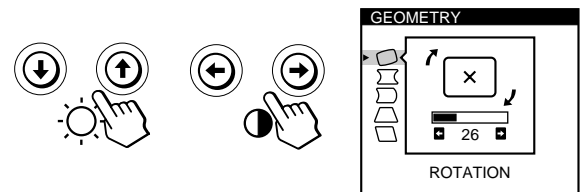
Using the GEOM (Geometry) On-screen Display


The GEOM (geometry) settings allow you to adjust the shape and orientation of the picture. Once the rotation is adjusted, it will be stored in memory for all input signals received. All other adjustments will be stored in memory for the current input signal.

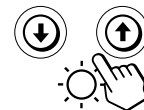
- 1 Press the  button.
The MENU OSD appears.








- 2 Press the  and  buttons to select "GEOM," and press the  button again.
The GEOMETRY OSD appears.

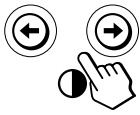


- 3 Press the  buttons to select the item you want to adjust.



Select	To
 ROTATION	adjust the picture rotation
 PINCUSHION	adjust the picture sides
 PIN BALANCE	adjust the picture side balance
 KEYSTONE	adjust the picture width
 KEY BALANCE	adjust the picture shape balance

4 Press the buttons to adjust the settings.



For	Press
ROTATION	<p> ... to rotate the picture clockwise</p> <p> ... to rotate the picture counterclockwise</p>
PINCUSHION	<p> ... to expand the picture sides</p> <p> ... to contract the picture sides</p>
PIN BALANCE	<p> ... to move the picture sides to the right</p> <p> ... to move the picture sides to the left</p>
KEYSTONE	<p> ... to increase the picture width at the top</p> <p> ... to decrease the picture width at the top</p>
KEY BALANCE	<p> ... to move the top of the picture to the right</p> <p> ... to move the top of the picture to the left</p>

The OSD automatically disappears after about 30 seconds. To close the OSD, press the button again.

To reset, press the (reset) button while the OSD is on. The selected item is reset to the factory setting.

Using the ZOOM On-screen Display

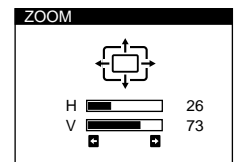
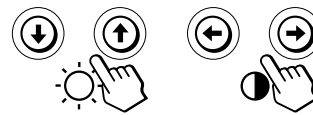
The ZOOM settings allow you to enlarge or reduce the picture.

Once the setting is adjusted, it will be stored in memory for the current input signal.

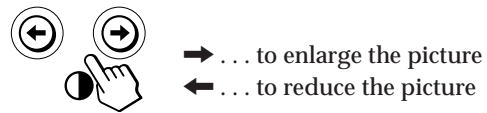
- 1 Press the button. The MENU OSD appears.



- 2 Press the and buttons to select " ZOOM," and press the button again. The ZOOM OSD appears.



- 3 Press the buttons to adjust the picture zoom.



The OSD automatically disappears after about 30 seconds. To close the OSD, press the button again.

To reset, press the (reset) button while the OSD is on.

Note








The picture zoom adjustment will stop as soon as either the horizontal or vertical size reaches its maximum or minimum value.

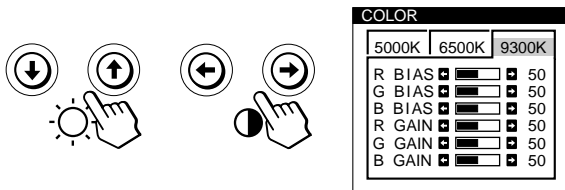
Using the COLOR On-screen Display



You can change the monitor's color temperature. For example, you can adjust or change the colors of a picture on the screen to match the actual colors of the printed picture. Once the setting is adjusted, it will be stored in memory for all input signals received.

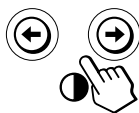
- 1 Press the  button.
The MENU OSD appears.








- 2 Press the    and   buttons to select " , "COLOR," and press the  button again.
The COLOR OSD appears.

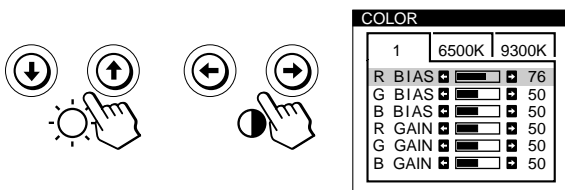


- 3 Press the   buttons to select the color temperature.



There are three color temperature modes in the OSD.
The preset adjustments are:
5000K, 6500K, 9300K

- 4 Fine tuning the color temperature
Press the    buttons to select an item and adjust by pressing the   buttons.





Select R (red), G (green), or B (blue) BIAS to adjust the black level of each color's signal.

Select R (red), G (green), or B (blue) GAIN to adjust the white level of each color's signal.

The "5000K," "6500K" or "9300K" disappears and the new color settings are memorized for each of the three color modes.


The color temperature modes change as follows:
5000K → 1, 6500K → 2, 9300K → 3

The OSD automatically disappears after about 30 seconds.
To close the OSD, press the  button again.








To reset, press the  (reset) button while the OSD is on.
The selected item is reset to the factory settings.

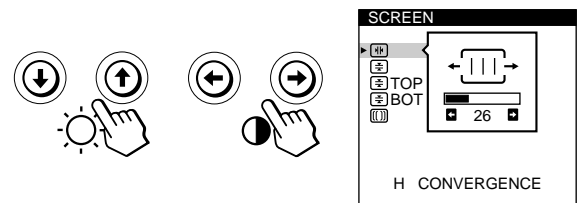
Using the SCREEN On-screen Display




You can adjust convergence settings to eliminate red or blue shadows that may appear around objects on the screen. Adjust the CANCEL MOIRE function to eliminate wavy or elliptical patterns that may appear on the screen. Once CANCEL MOIRE is adjusted, it will be stored in memory for the current input signal. All other adjustments will be stored in memory for all input signals received.

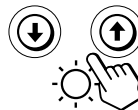
- 1 Press the  button.
The MENU OSD appears.







- 2 Press the    and   buttons to select " , "SCREEN," and press the  button again.
The SCREEN OSD appears.



- 3 Press the    buttons to select the item you want to adjust.

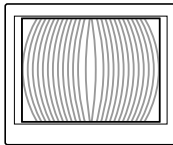


Select	To
 H CONVERGENCE	adjust the horizontal convergence
 V CONVERGENCE	adjust the vertical convergence
 V CONVER TOP	adjust the screen's upper vertical convergence
 V CONVER BOTTOM	adjust the screen's lower vertical convergence

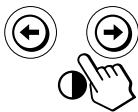
Select	To
CANCEL MOIRE *	turn the moire cancellation function "ON" or "OFF." CANCEL MOIRE must be "ON" for " ADJ (MOIRE ADJUST)" to appear on the screen.
ADJ MOIRE ADJUST	adjust the degree of moire cancellation

* Moire is a type of natural interference which produces soft or wavy lines on your screen. It may appear due to interference between the regulated pattern of the picture from the input signal and the phosphor pitch pattern of the CRT.

Example of moire:



4 Press the buttons to adjust the settings.



For	Press
H CONVERGENCE	<p> ... to shift red shadows to the right and blue shadows to the left</p> <p> ... to shift red shadows to the left and blue shadows to the right</p>
V CONVERGENCE	<p> ... to shift red shadows up and blue shadows down</p> <p> ... to shift red shadows down and blue shadows up</p>
TOP V CONVER TOP	<p> ... to shift red shadows up and blue shadows down</p> <p> ... to shift red shadows down and blue shadows up</p>

For	Press
BOT V CONVER BOTTOM	<p> ... to shift red shadows up and blue shadows down</p> <p> ... to shift red shadows down and blue shadows up</p>
CANCEL MOIRE	<p> ... to turn CANCEL MOIRE "ON"</p> <p> ... to turn CANCEL MOIRE "OFF"</p>
ADJ MOIRE ADJUST	<p> or ... to adjust the screen until the moire is at a minimum</p>

Note

The picture may become fuzzy when CANCEL MOIRE is set to "ON."

The OSD automatically disappears after about 30 seconds. To close the OSD, press the button again.


To reset, press the (reset) button while the OSD is on. The selected item is reset to the factory setting.

Using the OPTION On-screen Display







The OPTION OSD allows you to manually degauss the screen and adjust settings such as the OSD position and power saving delay time. It also allows you to lock the controls.

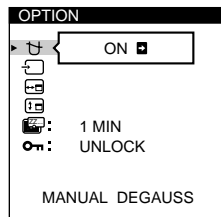
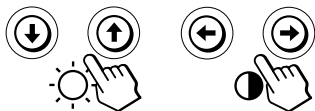
Degaussing the screen




The monitor screen is automatically degaussed (demagnetized) when the power is turned on. You can also manually degauss the monitor.

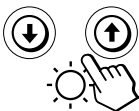
- 1 Press the  button.
The MENU OSD appears.



- 2 Press the   and   buttons to select " , " and press the  button again.
The OPTION OSD appears.



- 3 Press the   buttons to select " , " (MANUAL DEGAUSS)."



- 4 Press the  button.
The screen is degaussed for about 3 seconds.



If you need to degauss the screen a second time, wait for at least 20 minutes before repeating the steps above.

The OPTION OSD automatically disappears after about 30 seconds.







To close the OSD, press the  button again.

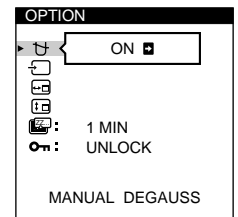
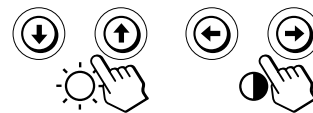
Changing the on-screen display position






You can change the OSD position (for example, when you want to adjust the picture behind the OSD).

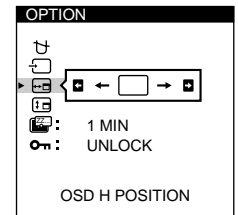
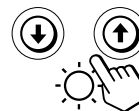
- 1 Press the  button.
The MENU OSD appears.



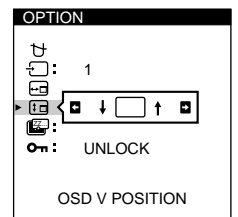
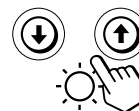
- 2 Press the   and   buttons to select " , " and press the  button again.
The OPTION OSD appears.



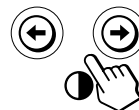
- 3 Press the   buttons to select " , " (OSD H POSITION)" or " , " (OSD V POSITION)."
Select " , " (OSD H POSITION)" to adjust the horizontal position.



Select " , " (OSD V POSITION)" to adjust the vertical position.




- 4 Press the   buttons to move the OSD to the desired position.




The OPTION OSD automatically disappears after about 30 seconds.

To close the OSD, press the  button again.




To reset, press the  (reset) button while the OSD is on.

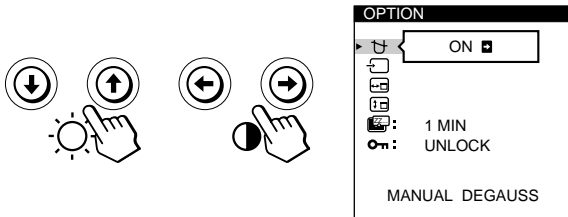
Setting the power saving delay time



You can set the delay time before the monitor enters the power saving mode. See page 15 for more information on this monitor's power saving capabilities.

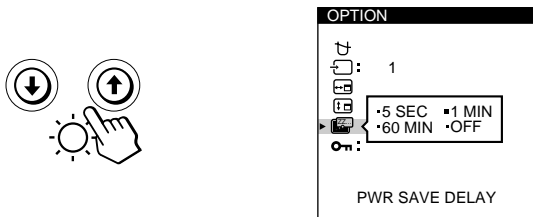
- 1 Press the  button.
The MENU OSD appears.



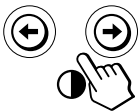
- 2 Press the  and  buttons to select "OPTION," and press the  button again.
The OPTION OSD appears.



- 3 Press the  and  buttons to select "PWR SAVE DELAY."



- 4 Press the  and  buttons to select the desired time.



When PWR SAVE DELAY is set to "OFF," the monitor does not go into power saving mode.

The OPTION OSD automatically disappears after about 30 seconds.

To close the OSD, press the  button again.




To reset, press the  (reset) button while the OSD is on.

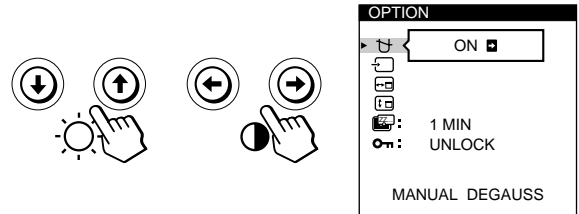
Locking the controls



The control lock function disables all of the buttons on the front panel except the  (power) switch and  button.

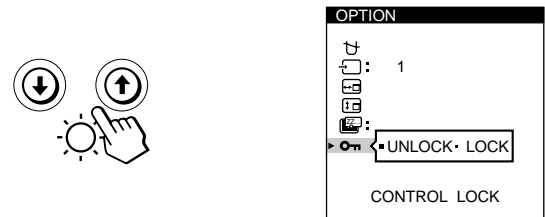
- 1 Press the  button.
The MENU OSD appears.



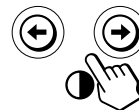
- 2 Press the  and  buttons to select "OPTION," and press the  button again.
The OPTION OSD appears.



- 3 Press the  and  buttons to select "CONTROL LOCK."






- 4 Press the  and  buttons to select "LOCK."





The OPTION OSD automatically disappears after about 30 seconds.

To close the OSD, press the  button again.

Once you select "LOCK," you cannot select any items except "EXIT" and "OPTION" in the MENU OSD. If you press any button other than the  (power) switch and  button, the  mark appears on the screen.

To cancel the control lock




Repeat steps 1 through 3 above and press the  and  buttons to select "UNLOCK."

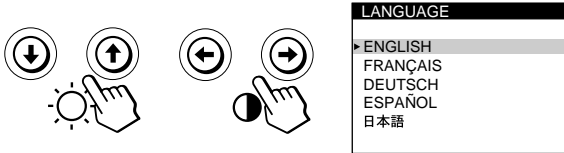
Using the LANG (Language) On-screen Display


English, French, German, Spanish and Japanese versions of the OSDs are available.

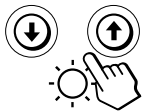
- 1 Press the  button.
The MENU OSD appears.




- 2 Press the  and  buttons to select "LANG," and press the  button again.
The LANGUAGE OSD appears.




- 3 Press the  buttons to select the desired language.






ENGLISH: English, FRANÇAIS: French,
DEUTSCH: German, ESPAÑOL: Spanish,
or 日本語: Japanese.

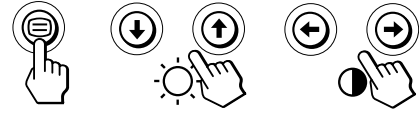
The OSD automatically disappears after about 30 seconds.
To close the OSD, press the  button again.


To reset to English, press the  (reset) button while the OSD is on.

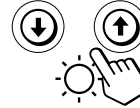
Resetting the Adjustments


Resetting an adjustment item

- 1 Press the ,  and  buttons to select the OSD containing the item you want to reset.




- 2 Press the  buttons to select the item you want to reset.



- 3 Press the  (reset) button.



Resetting all of the adjustment data for the current input signal


When there is no OSD displayed, press the  (reset) button.

All of the adjustments data for the current input signal is reset to the factory settings.

Note that adjustment data not affected by changes in input signal (OSD language, OSD position, input signal selection, power saving delay time and the control lock function) is not reset to the factory settings.



Resetting all of the adjustment data for all input signals

Press and hold the  (reset) button for more than two seconds.

All of the adjustment data, including the brightness and contrast, is reset to the factory settings.



Power Saving Function

This monitor meets the power-saving guidelines set by VESA and Energy Star, as well as the more stringent NUTEK .

If the monitor is connected to a computer or video graphics board that is VESA DPMS (Display Power Management Signaling) compliant, the monitor will automatically reduce power consumption in three stages as shown below.

	Power consumption mode	Screen	Horizontal sync signal	Vertical sync signal	Power consumption	Recovery time	⏻ indicator
1	Normal operation	active	present	present	≤ 140 W	—	Green
2	Standby (1st mode)	blank	absent	present	≤ 100 W	Approx. 3 sec.	Green and orange alternate
3	Suspend (2nd mode)	blank	present	absent	≤ 15 W	Approx. 3 sec.	Green and orange alternate
4	Active-off (3rd mode)	blank	absent	absent	< 5 W	Approx. 10 sec.	Orange
5	Power-off	—	—	—	0 W	—	Off

You can set the delay time before the monitor enters the power saving mode using the OSD. Set the time according to “Setting the power saving delay time” on page 13.

Note

If no video signal is input to the monitor, the “NO INPUT SIGNAL” message (page 16) appears. After the delay time has passed, the power saving function automatically puts the monitor into the active-off mode and the ⏻ indicator lights up orange. Once the horizontal and vertical sync signals are detected, the monitor automatically resumes its normal operation mode.

Preset Modes

No.	Resolution (dots × lines)	Horizontal Frequency	Vertical Frequency	Graphics Mode
1	640 × 480	31.5 kHz	60 Hz	VGA
2	640 × 480	43.3 kHz	85 Hz	VESA
3	800 × 600	53.7 kHz	85 Hz	VESA
4	1024 × 768	60.0 kHz	75 Hz	VESA
5	1024 × 768	68.7 kHz	85 Hz	VESA
6	1280 × 1024	80.0 kHz	75 Hz	VESA
7	1280 × 1024	91.1 kHz	85 Hz	VESA
8	1600 × 1200	93.8 kHz	75 Hz	VESA

Plug & Play

This monitor complies with the DDC™1, DDC2B, DDC2AB and DDC2B+ Display Data Channel (DDC) standards of VESA.

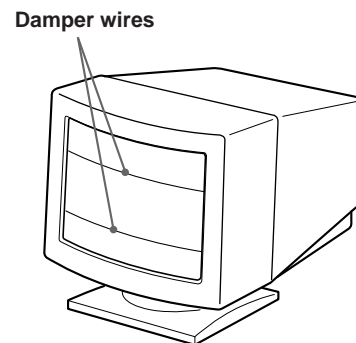
When a DDC1 host system is connected, the monitor synchronizes with the V. CLK in accordance with the VESA standards and outputs the EDID (Extended Display Identification Data) to the data line.

When a DDC2B, DDC2AB or DDC2B+ host system is connected, the monitor automatically switches to the appropriate standard.

DDC™ is a trademark of the Video Electronics Standard Association.

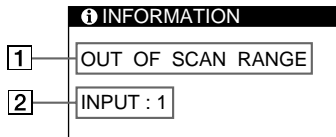
Damper Wires

When viewing a white background, very thin horizontal lines may be visible on the screen as shown below. These lines are the shadows of the damper wires and are characteristic of CRTs that use aperture grilles. The wires are attached to the aperture grille on the inside of the Trinitron tube and prevent the vibration of the aperture grille.



Warning Messages

If there is something wrong with the input signal, one of the following messages appears.



1 The input signal condition

“OUT OF SCAN RANGE” indicates that the input signal is not supported by the monitor’s specifications.

“NO INPUT SIGNAL” indicates that no signal is input, or the input signal from the selected input connector is not received.

2 The selected input connector


Indicates which input connector is receiving the wrong signal. If there is something wrong with the signal from both input connectors, “1” (HD15) and “2” (13W3) are displayed alternately.

To solve these problems, see “Troubleshooting” below.


Troubleshooting

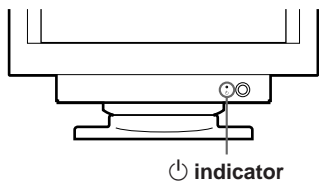
This section may help you isolate the cause of a problem and as a result, eliminate the need to contact technical support.

Symptom	Check these items
No picture	
If the ⏻ indicator is not lit	<ul style="list-style-type: none"> • Check that the power cord is properly connected. • Check that the ⏻ (power) switch is in the “on” position.
If the “NO INPUT SIGNAL” message appears on the screen, or if the ⏻ indicator is either orange or alternating between green and orange	<ul style="list-style-type: none"> • The screen is blank when the monitor is in power saving mode. Try pressing any key on the computer keyboard. • Check that your computer power switch is in the “on” position. • Check that the input select setting is correct. • Check that the video signal cable is properly connected and all plugs are firmly seated in their sockets. • Ensure that no pins are bent or pushed in the HD15 or 13W3 video input connector. • Check that the video board is completely seated in the proper bus slot.
If the “OUT OF SCAN RANGE” message appears on the screen	<ul style="list-style-type: none"> • Check that the video frequency range is within that specified for the monitor. (Horizontal: 30 – 94 kHz, Vertical: 50 – 160 Hz) Refer to your computer’s instruction manual to adjust the video frequency range. • If you are using a video signal cable adapter, check that it is correct.
If no message is displayed and the ⏻ indicator is green or flashing orange	<ul style="list-style-type: none"> • See “Self-diagnosis Function” (page 18).
Picture is scrambled	<ul style="list-style-type: none"> • Check your graphics board manual for the proper monitor setting. • Check this manual and confirm that the graphics mode and the frequency you are trying to operate at is supported. Even if the frequency is within the proper range, some video boards may have a sync pulse that is too narrow for the monitor to sync correctly.
Color is not uniform	<ul style="list-style-type: none"> • Degauss the monitor (page 12). If you place equipment which generates a magnetic field, such as a loudspeaker, near the monitor, or you change the direction of the monitor, color may lose uniformity. The degauss function demagnetizes the metal frame of the CRT to obtain a neutral field for uniform color reproduction. If a second degauss cycle is needed, allow a minimum interval of 20 minutes for the best result.


Symptom	Check these items
You cannot adjust the monitor with the buttons on the front panel	<ul style="list-style-type: none"> • If the control lock function is set to on, set it to off using the OPTION OSD (page 13).
White does not look white	<ul style="list-style-type: none"> • Adjust the color temperature (page 10).
Screen image is not centered or sized properly	<ul style="list-style-type: none"> • Press the  button (page 5). • Adjust the size or centering (pages 7 – 8). • Some video modes do not fill the screen to the edges. This problem tends to occur with certain video boards.
Edges of the image are curved	<ul style="list-style-type: none"> • Adjust the geometry (pages 8 – 9).
White lines show red or blue shadows at edges	<ul style="list-style-type: none"> • Adjust the convergence (pages 10 – 11).
Picture is fuzzy	<ul style="list-style-type: none"> • Adjust the contrast and brightness (page 6). • Degauss the monitor (page 12). If you place equipment which generates a magnetic field, such as a loudspeaker, near the monitor, or you change the direction of the monitor, color may lose uniformity. The degauss function demagnetizes the metal frame of the CRT to obtain a neutral field for uniform color reproduction. If a second degauss cycle is needed, allow a minimum interval of 20 minutes for the best result. • If red or blue shadows appear along the edges of images, adjust the convergence (pages 10 – 11). • If the moire is cancelled, the picture may become fuzzy. Decrease the moire cancellation effect (pages 10 – 11).
Picture bounces or has wavy oscillations	<ul style="list-style-type: none"> • Isolate and eliminate any potential sources of electric or magnetic fields. Common causes for this symptom are electric fans, fluorescent lighting or laser printers. • If you have another monitor close to this monitor, increase the distance between them to reduce the interference. • Try plugging the monitor into a different AC outlet, preferably on a different circuit. • Try the monitor on a different computer in a different room.
Picture is flickering	<ul style="list-style-type: none"> • Set the refresh rate on the computer to obtain the best possible picture by referring to the computer's manual.
Picture appears to be ghosting	<ul style="list-style-type: none"> • Eliminate the use of video cable extensions and/or video switch boxes if this symptom occurs. Excessive cable length or a weak connection can produce this symptom.
Wavy or elliptical (moire) pattern is visible	<ul style="list-style-type: none"> • Cancel the moire (pages 10 – 11). The moire may be modified depending on the connected computer. • Due to the relationship between resolution, monitor dot pitch and the pitch of some image patterns, certain screen backgrounds sometimes show moire. Change your desktop pattern.
Two fine horizontal lines (wires) are visible	<ul style="list-style-type: none"> • These wires stabilize the vertically striped aperture grille (page 15). This aperture grille allows more light to pass through to the screen giving the Trinitron CRT more color and brightness.
Hum is heard right after the power is turned on	<ul style="list-style-type: none"> • When the power is turned on, the auto-degauss cycle is activated. While the auto-degauss cycle is activated (3 seconds), a hum may be heard. The same hum is heard when the monitor is manually degaussed. This is not a malfunction.

Self-diagnosis Function

This monitor is equipped with a self-diagnosis function. If there is a problem with your monitor or computer(s), the screen will go blank and the  indicator will either light up green or flash orange.



If the indicator is green

- 1 Remove any plugs from the video input 1 and 2 connectors, or turn off the connected computer(s).
- 2 Press and hold the  button for 2 seconds.





If all four color bars appear (white, red, green, blue), the monitor is working properly. Reconnect the video input cables and check the condition of your computer(s).

If the color bars do not appear, there is a potential monitor failure. Inform your service representative of the monitor's condition.

If the indicator is flashing orange

Press the  button to turn the monitor off and on.

If the  indicator lights up green, the monitor is working properly.

If the  indicator is still flashing, there is a potential monitor failure. Count the number of seconds between orange flashes of the  indicator and inform your service representative of the monitor's condition. Be sure to note the model name and serial number of your monitor. Also note the make and model of your computer and video board.

Specifications

Picture tube	0.25 – 0.27 mm aperture grille pitch 19 inches measured diagonally 90-degree deflection
Viewable image size	Approx. 365 × 273 mm (w/h) (14 ³ / ₈ × 10 ³ / ₄ inches) 18.0" viewing image
Resolution	Horizontal: Max. 1600 dots Vertical: Max. 1200 lines
Standard image area	Approx. 330 × 264 mm (w/h) (13 × 10 ¹ / ₂ inches) or Approx. 352 × 264 mm (w/h) (13 ⁷ / ₈ × 10 ¹ / ₂ inches)
Deflection frequency	Horizontal: 30 to 94 kHz Vertical: 50 to 160 Hz 256 < Total Line < 2048
AC input voltage/current	100 to 240 V, 50 – 60 Hz, 1.8 – 1.0 A
Power consumption	Max. 130 W
Dimensions	462.2 × 477.5 × 475.5 mm (w/h/d) (18 ¹ / ₄ × 18 ⁷ / ₈ × 18 ³ / ₄ inches)
Mass	Approx. 25 kg (55 lb 2 oz)

Design and specifications are subject to change without notice.

Federal Communications Commission (FCC) Statement

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:

- Reorientate or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult an IBM authorized dealer or service representative for help.

Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits. Proper cables and connectors are available from IBM authorized dealers. IBM is not responsible for any radio or television interference caused by using other than recommended cables and connectors or by unauthorized changes or modifications to this equipment.

Unauthorized changes or modifications could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Responsible Party:

International Business Machines Corporation

Old Orchard Road

Armonk, NY 10504

Telephone: 1-919-543-2193

Power Cords

For your safety, IBM provides a power cord with a grounded attachment plug to use with this IBM product. To avoid electrical shock, always use the power cord and plug with a properly grounded power outlet.

IBM power cords used in the United States and Canada are listed by the Underwriters Laboratories (UL) and certified by the Canadian Standards Association (CSA).

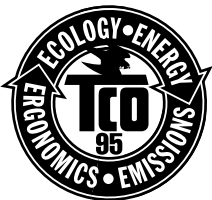
For units intended to be operated at 115 volts: Use a UL listed and CSA certified cord set consisting of a minimum 18 AWG, type SVT or SJT, three conductor cord, a maximum of 4.5 metres (15 feet) in length and a parallel blade, grounding type attachment plug rated 15 amperes, 125 volts.

For units intended to be operated at 230 volts (U.S. use): Use a UL listed and CSA certified cord set consisting of a minimum 18 AWG, type SVT or SJT, three conductor cord, a maximum of 4.5 metres (15 feet) in length and a tandem blade, grounding type attachment plug rated 15 amperes 250 volts.

For units intended to be operated at 230 volts (outside the U.S.): Use a cord set with a grounding type attachment plug rated 13 amperes (minimum), 250 volts. The cord set should be marked <HAR> and have the appropriate safety approvals for the country in which the equipment will be installed.



As an ENERGY STAR Partner, IBM Corporation has determined that this product meets the ENERGY STAR guidelines for energy efficiency.



This monitor complies with TCO'95 guidelines.

MPRII

This product complies with Swedish National Council for Metrology (MPR) standards issued in December 1990 (MPRII) for very low frequency (VLF) and extremely low frequency (ELF).

Bescheinigung des Herstellers

Hiermit wird bescheinigt daß der monitor in Übereinstimmung mit den Bestimmungen der BMPT - Amtsblatt Vfg 243/1991. Vfg 46/1992 funktentstört ist. Der vorschriftsmäßige Betrieb mancher Geräte (z.B. Meßsender) kann allerdings gewissen Einschränkungen unterliegen. Beachten Sie deshalb die Hinweise in der Bedienungsanleitung. Dem Bundesamt für Zulassungen in der Telekommunikation wurde das Inverkehrbringen dieses Gerätes angezeigt und die Berechtigung zur Überprüfung der Serie auf Einhaltung der Bestimmungen eingeräumt.

IBM Deutschland Informationssysteme GmbH
Pascalstrasse100
70569 Stuttgart.

Hinweise

Gemäß der Amtsblätter des BMPT Nm. 61/1991 und 6/1992 wird der Betreiber darauf aufmerksam gemacht, daß die von ihm mit diesem Gerät zusammengestellte Anlage auch den technischen Bestimmungen dieser Amtsblätter genügen muß.

Aus ergonomischen Gründen wird empfohlen, die Grundfarbe Blau nicht auf dunklem Untergrund zu verwenden (schlechte Erkennbarkeit, Augenbelastung bei zu geringem Zeichenkontrast).

Aus ergonomischen Gründen sollten nur Darstellungen auf dunklem Hintergrund bei Vertikalfrequenzen ab 60 Hz (ohne Zeilensprung) benutzt werden.

Die Konvergenz des Bildes kann sich auf Grund des Magnetfeldes am Ort der Aufstellung aus der korrekten Grundeinstellung verändern. Zur Korrektur empfiehlt es sich deshalb, die Regler an der Frontseite für H STAT und V STAT so einzustellen, daß die getrennt sichtbaren Farblinien für Rot, Grün und Blau bei z.B. der Darstellung eines Buchstabens zur Deckung (Konvergenz) gelangen. Siehe hierzu auch die Erklärungen zu H STAT und V STAT.

NOM

IBM de México, S.A.
IBM P92 Monitor de Color (M/T 6557)
Planta de Manufactura
Sony Ichinomiya Corp.
6 Aza-Ikejiri, Oaza-Takada,
Ichinomiya-shi, Aichi-ken,
492 Japan

Hecho en Japón

NOM - 018

Consumo de Corriente 1.8 - 1.0A

Frecuencia de Operacion 50/60 Hz

Rension de Alimentacion 100 - 240 V

European Union (EU) Statement

This product has been tested and found to comply with the limits for Class B Information Technology Equipment according to CISPR 22 / European Standard EN 55022. The limits for Class B equipment were derived for typical residential environments to provide reasonable protection against interference with licensed communication devices.

Properly shielded and grounded cables and connectors must be used in order to reduce the potential for causing interference to radio and TV communications and to other electrical or electronic equipment. Such cables and connectors are available from IBM authorised dealers.

In accordance with EN 50082-1 1992, Performance Criterion A., it should be noted that in the presence of certain electromagnetic fields, some screen jitter may be observed.

Spécifications de la CEE

Ce produit a été testé et déclaré conforme aux limites de la Classe B définies pour les équipements informatiques conformément à la norme européenne CISPR 22/EN 55022. Les limites imposées aux équipements de Classe B visent à garantir une protection raisonnable, dans des environnements résidentiels, contre toute interférence avec des équipements de communication agréés.

Des câbles blindés et correctement reliés à la terre doivent être utilisés pour réduire les risques d'interférence avec des communications radio et télévisées, ainsi qu'avec des équipements électriques ou électroniques. Ces câbles et connecteurs sont disponibles auprès de vos revendeurs IBM agréés.

Conformément à la norme EN 50082-1 1992, Performance Criterion A, veuillez noter qu'en présence de certains champs électromagnétiques l'image de l'écran peut être instable.

Erklärung für die Europäische Union (EU)

Dieses Produkt wurde getestet, und dabei wurde festgestellt, daß es gemäß CISPR 22 / Europäische Norm EN 55022 die Grenzwerte für Ausrüstung der Informationstechnik, Klasse B, einhält. Die Grenzwerte für Ausrüstung der Klasse B wurden für eine typische Wohnumgebung erarbeitet, um einen angemessenen Schutz vor Störungen im Zusammenhang mit zugelassenen Kommunikationsgeräten zu gewährleisten.

Es sind ordnungsgemäß abgeschirmte und geerdete Kabel und Stecker zu verwenden, um das Störungspotential in bezug auf Radio- und Fernsehempfang oder andere elektrische oder elektronische Geräte zu reduzieren. Solche Kabel und Stecker sind bei autorisierten IBM-Fachhändlern erhältlich.

In Übereinstimmung mit EN 50082-1 1992, Leistungskriterium A wird darauf hingewiesen, daß bestimmte elektromagnetische Felder ein Flattern auf dem Bildschirm hervorrufen können.

Declaración de la Unión Europea (UE)

Este producto ha sido probado y cumple con las limitaciones estipuladas para la Clase B ITE (Information Technology Equipment), de conformidad con CISPR 22 / Estándar Europeo EN 55022. Las limitaciones de los equipos de Clase B se establecieron para que los entornos residenciales típicos a fin de proporcionar una protección razonable contra interferencias con dispositivos de comunicación autorizados.

Se deben utilizar conectores y cables debidamente protegidos y conectados a tierra a fin de reducir las posibilidades de que se produzcan interferencias con comunicaciones por radio o televisión y otros equipos eléctricos o electrónicos. Este tipo de cables y conectores pueden adquirirse en concesionarios autorizados de IBM.

De acuerdo con la norma EN 50082-1 1992, Performance Criterion A, habría que destacar que en presencia de determinados campos electromagnéticos, podría observarse una marcada inestabilidad e la imagen.

Dichiarazione di conformità dell'Unione Europea (UE)

Questo prodotto è stato collaudato e trovato conforme ai limiti di Classe B relativi agli apparecchi informatici secondo quanto dispone la normativa europea CISPR 22 / EN 55022. I limiti degli apparecchi di Classe B sono stati definiti per i normali ambienti domestici al fine di fornire un'adeguata protezione con dispositivi di comunicazione autorizzati.

Utilizzare cavi e connettori collegati a terra per ridurre il rischio potenziale di interferenza delle comunicazioni radiotelevisive e di altri apparecchi elettrici o elettronici. I cavi sono disponibili presso i rivenditori autorizzati IBM.

In accordo con quanto previsto nel documento EN 50082-1 1992, Performance Criterion A, è importante sottolineare che in presenza di determinati campi elettromagnetici è possibile che si verifichi un certo tremolio delle immagini.

Statement of Limited Warranty U.S., Canada and Puerto Rico

The warranties provided by IBM in this Statement of Limited Warranty apply only to Machines you originally purchase for your use, and not for resale, from IBM or your reseller. The term "Machine" means an IBM machine, its features, conversions, upgrades, elements, or accessories, or any combination of them. Unless IBM specifies otherwise, the following warranties apply only in the country where you acquire the Machine. If you have any questions, contact IBM or your reseller.

Machine: P92 M/T 6557
Warranty Period*: 3 years.
* Contact your place of purchase for warranty service information

Production Status

Each Machine is manufactured from new parts, or new and used parts. In some cases, the Machine may not be new and may have been previously installed. Regardless of the Machine's production status, IBM's warranty terms apply.

The IBM Warranty for Machines

IBM warrants that each Machine 1) is free from defects in materials and workmanship and 2) conforms to IBM's Official Published Specifications. The warranty period for a Machine is a specified, fixed period commencing on its Date of Installation. The date on your receipt is the Date of Installation, unless IBM or your reseller informs you otherwise.

During the warranty period IBM or your reseller, if authorized by IBM, will provide warranty service under the type of service designated for the Machine and will manage and install engineering changes that apply to the Machine.

For IBM or your reseller to provide warranty service for a feature, conversion, or upgrade, IBM or your reseller may require that the Machine on which it is installed be 1) for certain Machines, the designated, serial-numbered Machine and 2) at an engineering-change level compatible with the feature, conversion, or upgrade. Many of these transactions involve the removal of parts and their return to IBM. You represent that all removed parts are genuine and unaltered. A part that replaces a removed part will assume the warranty service status of the replaced part.

If a Machine does not function as warranted during the warranty period, IBM or your reseller will repair it or replace it with one that is at least functionally equivalent, without charge. The replacement may not be new, but will be in good working order. If IBM or your reseller is unable to repair or replace the Machine, you may return it to your place of purchase and your money will be refunded.

If you transfer a Machine to another user, warranty service is available to that user for the remainder of the warranty period. You should give your proof of purchase and this Statement to that user. However, for Machines which have a life-time warranty, this warranty is not transferable.

Warranty Service

To obtain warranty service for the Machine, you should contact your reseller or call IBM. In the United States, call IBM at 1-800-772-2227. In Canada, call IBM at 1-800-565-3344. You may be required to present proof of purchase.

IBM or your reseller will provide certain types of repair and exchange service, either at your location or at IBM's or your reseller's service center, to restore a Machine to good working order.

When a type of service involves the exchange of a Machine or part, the item IBM or your reseller replaces becomes its property and the replacement becomes yours. You represent that all removed items are genuine and unaltered. The replacement may not be new, but will be in good working order and at least functionally equivalent to the item replaced. The replacement assumes the warranty service status of the replaced item. Before IBM or your reseller exchanges a Machine or part, you agree to remove all features, parts, options, alterations, and attachments not under warranty service. You also agree to ensure that the Machine is free of any legal obligations or restrictions that prevent its exchange.

You agree to:

1. obtain authorization from the owner to have IBM or your reseller service a Machine that you do not own; and
2. where applicable, before service is provided -
 - a) follow the problem determination, problem analysis, and service request procedures that IBM or your reseller provide,
 - b) secure all programs, data, and funds contained in a Machine, and
 - c) inform IBM or your reseller of changes in a Machine's location.

IBM is responsible for loss of, or damage to, your Machine while it is 1) in IBM's possession or 2) in transit in those cases where IBM is responsible for the transportation charges.

Extent of Warranty

IBM does not warrant uninterrupted or error-free operation of a Machine.

The warranties may be voided by misuse, accident, modification, unsuitable physical or operating environment, improper maintenance by you, removal or alteration of Machine or parts identification labels, or failure caused by a product for which IBM is not responsible.

THESE WARRANTIES REPLACE ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THESE WARRANTIES GIVE YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM JURISDICTION TO JURISDICTION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF EXPRESS OR IMPLIED WARRANTIES, SO THE ABOVE EXCLUSION OR LIMITATION MAY NOT APPLY TO YOU. IN THAT EVENT SUCH WARRANTIES ARE LIMITED IN DURATION TO THE WARRANTY PERIOD. NO WARRANTIES APPLY AFTER THAT PERIOD.

Limitation of Liability

Circumstances may arise where, because of a default on IBM's part or other liability you are entitled to recover damages from IBM. In each such instance, regardless of the basis on which you are entitled to claim damages from IBM (including fundamental breach, negligence, misrepresentation, or other contract or tort claim), IBM is liable only for:

1. damages for bodily injury (including death) and damage to real property and tangible personal property; and 2. the amount of any other actual direct damages or loss, up to the greater of U.S. \$100,000 or the charges (if recurring, 12 months' charges apply) for the Machine that is the subject of the claim.

UNDER NO CIRCUMSTANCES IS IBM LIABLE FOR ANY OF THE FOLLOWING: 1) THIRD-PARTY CLAIMS AGAINST YOU FOR LOSSES OR DAMAGES (OTHER THAN THOSE UNDER THE FIRST ITEM LISTED ABOVE); 2) LOSS OF, OR DAMAGE TO, YOUR RECORDS OR DATA; OR 3) SPECIAL, INCIDENTAL, OR INDIRECT DAMAGES OR FOR ANY ECONOMIC CONSEQUENTIAL DAMAGES (INCLUDING LOST PROFITS OR SAVINGS), EVEN IF IBM OR YOUR RESELLER IS INFORMED OF THEIR POSSIBILITY. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE EXCLUSION OR LIMITATION MAY NOT APPLY TO YOU.

Statement of Limited Warranty, Europe.

For European warranty terms and conditions refer to enclosed IBM warranty statement Part Number 72H9623.

Référez-vous à la garantie IBM N° de référence 72H9623 pour les conditions de garantie européennes.

Die europäischen Garantiebedingungen finden Sie in der beigefügten IBM- Gewährleistungserklärung, Teilenummer 72H9623.

Los términos y condiciones de las garantías en Europa se recogen en la declaración de garantía adjunta del número de pieza IBM 72H9623.

Per le condizioni e i termini di garanzia relativi ai paesi europei, consultare l'apposita dichiarazione IBM (numero di matricola 72H9623).

IBM Warranty Statement

IBM warrants this IBM product to be in good working order and conforms to its officially published IBM specifications for a period of three years from the date of first purchase by an end-user customer.

Note: Batteries for Mobile products are limited to 1 year warranty.

Your sales receipt or authorised dated and stamped warranty service certificate is proof of your entitlement to warranty service.

If this product is not in good working order, IBM will, at its option, repair or replace this product at no additional charge except as set forth below. Repair parts and replacement products will be provided on an exchange basis and will be either new, equivalent to new or reconditioned. All replaced parts and products become the property of IBM. This warranty does not cover the repair of damage to the product resulting from:

- Accident, disaster, misuse and abuse

- Use of parts not manufactured or sold by IBM

- Modification of the product

- Service provided by anyone other than IBM or an authorised IBM service provider.

IBM does not warrant that the functions in any preloaded program will meet your requirements or that the operations of the preloaded program will be uninterrupted or error free.

There is no other warranty whether express or implied. In case the exclusion of certain warranties would be precluded by applicable law, such warranties would be limited in duration to the warranty period stated above.

Warranty Performance

Warranty service may be obtained by returning the product during warranty period to an authorised IBM service provider and by providing proof of your warranty service entitlement. You are responsible for any associated transportation charges and insurance during shipment and return.

For a product purchased in a group A country (as defined), warranty service may be obtained from any authorised IBM service provider in any group A country; similarly for a product purchased in a group B country, warranty service may be obtained from any authorised IBM service provider in any group B country.

Group A Countries

Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland Italy, Ireland, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

Group B Countries

Albania, Bosnia-Herzegovina, Bulgaria, Croatia, Czechia, Russia, Armenia, Bellarus, Georgia, Kirghizia, Hungary, Kazakhstan, Macedonia, Moldova, Poland, Romania, Slovakia, Serbia-Montenegro, Slovenia, Ukraine.

On-Site Service

Some IBM products are sold with a service entitlement which is delivered on the customers premises (on-site). If the product you have purchased carries with it an entitlement to IBM on-site service, this service is provided during the warranty period subject to the following terms and conditions:

The product must have been announced as qualifying for On-Site Service in the country in which Warranty Service is being claimed.

You must contact a local authorised IBM service provider and be prepared to supply proof of warranty entitlement. The

authorised IBM service provider will attempt to resolve your problem over the telephone. If this is not possible, a trained service engineer will be dispatched to your location to repair the IBM product.

The service representative must be provided with full access to the equipment reported as faulty.

The equipment must be located within 50 kilometers (or more depending on country) of the authorised IBM service provider.

Liability

IBM shall have no liability for lost profits or other consequential damages, even if advised of the possibility of such damages, or for any claim by any third party. IBM's total liability for a breach or breaches of this warranty by IBM is limited to 100,000 US Dollars of direct damages. This financial limitation of liability will not apply to claims for death or personal injury or damage to real or personal property caused by IBM negligence.

General

No statements contained herein shall affect the statutory rights of consumers.

International Warranty Service

IBM International hardware warranty service is available for those customers, travelling to countries in which their PC products are announced and sold by IBM or IBM resellers, upon registering with IBM International Warranty Service Office. IBM International Warranty Service is provided subject to the terms and conditions of the IBM Warranty Statement provided with the product in the country of purchase. Service outside the country of purchase will be provided under local service procedures. Customers who wish to relocate their machine to another country and wish to obtain warranty service must first register with the International Warranty Service Office based in Greenock. The I.W.S.O. will offer advice on the warranty service available in the country or countries where the customer wishes to relocate and will issue an International Warranty Service

Certificate upon proof of warranty status of the customers machine.
Contact the I.W.S.O. on

Tel + 44 1475 893638

Fax + 44 1475 893732

Alternatively customers may register for International Warranty Service via their local IBM Office.

Notes:

1. International Warranty Service is not available on IBM Options unless they are installed in or connected to an IBM System Unit which is registered for International Warranty Service.
2. Customers are not required to register their machine for International Warranty Service if relocation is within the countries of Group A or Group B.

Service Information

The following parts are for use by IBM service, or IBM authorized dealers, to support customer warranty. Parts are for service use only.

Part No	M/T-Model	Description
61H0222	6557-03N	Monitor UVNH (Pearl White)
61H0223	6557-43N	Monitor UVNH (Stealth Gray)
61H0224	6557-03S	Monitor UVSH (Pearl White)
61H0216	6557-43S	Monitor UVSH (Stealth Gray)
61H0226		Video Cable (Pearl White)
61H0227		Video Cable (Stealth Gray)