SXT2011

FLAT PANEL INDUSTRIAL MONITOR



Hardware Guide

FP Monitor



Revision	Description	Date
Α	Manual released	06/02
В	TIR Caution and driver installation instructions added	07/04

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United States FCC Part 15, Subpart B, Class A EMI Compliance Statement:

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

For European Users: WARNING

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

INSTALLATION: Electromagnetic Compatibility WARNING

The connection of non-shielded equipment interface cables to this equipment will invalidate FCC EMI and European Union EMC compliance and may result in electromagnetic interference and/or susceptibility levels which are in violation of regulations which apply to the legal operation of this device. It is the responsibility of the system integrator and/or user to apply the following directions which relate to installation and configuration:

All interface cables must include shielded cables. Braid/foil type shields are recommended. Communication cable connectors must be metal, ideally zinc die-cast backshell types, and provide 360 degree protection about the interface wires. The cable shield braid must be terminated directly to the metal connector shell, ground drain wires alone are not adequate.

Protective measures for power and interface cables as described within this manual must be applied. Do not leave cables connected to unused interfaces or disconnected at one end. Changes or modifications to this device not expressly approved by the manufacturer could void the user's authority to operate the equipment.

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1. Product Overview

Xycom Automation industrial monitors meet the rigorous requirements of the plant floor with high-resolution flat panel displays in a rugged housing with an optional resistive membrane touchscreen. The SXT2011 flat panel monitor delivers crisp, bright text and graphics with a low current draw, and it fits into panels that CRTs cannot.

The SXT2011 is self-contained, requiring only to be panel mounted in an appropriate enclosure and connected to 120/240 VAC and VGA source.

Product Features

Standard SXT2011 Features

- 20.1" bright (250 Nit), easy-to-read, high contrast (300:1), color (16.7 million colors) TFT flat panel display with SVGA (1280x1024) resolution
- Large viewing area and viewing angles (170° horizontal, 170° vertical)
- Operator input through an optional integrated high-performance (35 million touch) touchscreen
- Front panel controls with onscreen menus (lock switch on rear of units)
- Long-lasting (50,000 hour) backlight
- Hinged design for easy backlight field replacement
- Simple mounting
- Shallow mounting depth
- Up to 50 foot cables
- Optional 19" EIA rackmount adapter plate
- NEMA 4/12 front panel, when properly mounted
- UL and cUL recognized, CE marked
- Units ship with all necessary cables and software

Parts List

When you remove the SXT2011 from its shipping carton, verify that you have the parts listed below. Save the box and inner wrapping in case you need to reship the unit.

Standard SXT2011 Parts List

- SXT2011 unit.
- Ten-foot VGA cable.
- Ten-foot serial cable (touchscreen units only).
- Documentation and Support Library CD-ROM. In addition to containing this manual, this CD contains all drivers required by this unit (touchscreen drivers in the case of SXT2011T units).

Manual Overview

The manual is divided in the following chapters:

- Chapter 1 Product Overview
- Chapter 2 Installation
- Chapter 3 Monitor Settings
- Chapter 4 Hardware

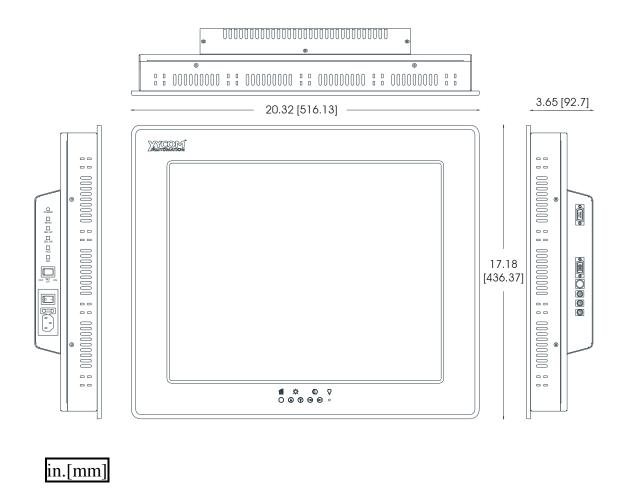
Text Conventions Used in this Manual

Throughout this manual, certain terms are formatted in ways that indicate what type of object is being described. Some information is also segregated to draw attention quickly.

Titles, labels, and messages are indicated by italic text. Computer filenames and text to be entered by the user will appear in a monospace font. Operator interfaces (such as the **Start** menu button) and keyboard keys (such as **Enter**) appear in a narrow bold typeface. Other text (such as the word **Note**) is bold to emphasize it and draw your attention to it.

Some text is segregated into **Note**, **Caution**, or **Warning** boxes. Notes contain extra information that may make the nearby text, especially the text just before the note, more understandable. Cautions contain information necessary to prevent damage to the hardware. Warnings contain information necessary to safeguard the operator.

Product Dimensions



Front Panel Controls

The front panel controls, from left to right are Menu, Select, Increment, Decrement. Their use is detailed in Chapter 3— Monitor Settings.



Product Specifications and Ratings

Environmental

	Operating	Nonoperating
Thermal	0°C to 50°C (32°F to 122°F)	-20 °C to 60 °C (32 °F to 122 °F)
Humidity	20% to 80% RH, noncondensing	20% to 80% RH, noncondensing
Shock	15 g peak acceleration, 11 msec duration	30 g peak acceleration, 11 msec duration
Vibration, 5-2000 Hz	0.006" peak-to-peak displacement 1.0 g maximum acceleration	0.015" peak-to-peak displacement 2.5 g maximum acceleration
Altitude	Sea level to 10,000 ft. (3,000 m)	Sea level to 40,000 ft. (12,000 m)

Electrical

AC power: 90-264 VAC, 1.0 A, 47-440 Hz

DC power: 24 VDC, 1 A

Front Panel/Enclosure

NEMA 4/12

Regulatory Compliance

CE

• EN 55022: Class A

• EN 50082-2

• EN 60950

FCC

• 47 CFR, Part 15, Class A

Safety Agency Approvals

UL

• UL 1950

CUL

• CSA-C22.2, #950

2. Installation

Environmental Considerations

The rugged design of the SXT2011 allows it to be installed in most industrial environments. Refer to the electrical and environmental specifications and tolerances (pg. 4) for more detailed information.

System Power

It is a good practice to use isolation transformers on the incoming AC power line to the system. An isolation transformer is especially desirable in cases in which heavy equipment is likely to introduce noise onto the AC line. The isolation transformer can also serve as a step-down transformer to reduce the incoming line voltage to a desired level. The transformer should have a sufficient power rating (units of volt-amperes) to supply the load adequately.

Proper grounding is essential to all safe electrical installations. Refer to the relevant federal, state/provincial, and local electric codes, which provide data such as the size and types of conductors, color codes and connections necessary for safe grounding of electrical components. The code specifies that a grounding path must be permanent (no solder), continuous, and able to safely conduct the ground-fault current in the system with minimal impedance (minimum wire required is 18 AWG, 1 mm).

Observe the following practices:

- Separate the power and ground (P. E., or Protective Earth) cable from signal cables at the point of entry to the enclosure. To minimize the ground wire length within the enclosure, locate the ground reference point near the point of entry for the plant power supply.
- All electrical racks or chassis and machine elements should be Earth Grounded in installations where high levels of electrical noise can be expected. The rack/chassis should be grounded with a ground rod or attached to a nearby Earth structure such as a steel support beam. Connect each different apparatus to a single Earth Ground point in a "star" configuration with low impedance cable. Scrape away paint and other nonconductive material from the area where a chassis makes contact with the enclosure. In addition to the ground connection made through the mounting bolt or stud, use a one-inch metal braid or size #8 AWG wire to connect between each chassis and the enclosure at the mounting bolt or stud.

Excessive Heat

To keep the temperature in range, the cooling air at the base of the system must not exceed the maximum temperature specification (see pg. 4). Allocate proper spacing between internal components installed in the enclosure.

When the air temperature is higher than the specified maximum in the enclosure (see pg. 4), use a fan or air conditioner to lower the temperature.

Electrical Noise

Electrical noise is seldom responsible for damaging components, unless extremely high energy or high voltage levels are present. However, noise can cause temporary malfunctions that can result in hazardous machine operation in certain applications. Noise may be present only at certain times, may appear at widely spread intervals, or in some cases may exist continuously.

Noise commonly enters through input, output, and power supply lines and may also be coupled through the capacitance between these lines and the noise signal carrier lines. This usually results from the presence of high voltage or long, close-spaced conductors. When control lines are closely spaced with lines carrying large currents, the coupling of magnetic fields can also occur. Use shielded cables to help minimize noise. Potential noise generators include switching components, relays, solenoids, motors, and motor starters.

Refer to the relevant Federal, State/Provincial, and local electric codes, which provide data such as the size and types of conductors, color codes and connections necessary for safe grounding of electrical components. It is recommended that high- and low-voltage cabling be separated and dressed apart. In particular, AC cables and switch wiring should not be in the same conduit with all communication cables.

Line Voltage Variation

The power supply section of the unit is built to sustain the specified line fluctuations and still allow the system to function in its operating margin. As long as the incoming voltage is adequate, the power supply provides all the logic voltages necessary to support the monitor unit.

Unusual AC line variations may cause undesirable system shutdowns. As a first step to reduce line variations, correct any possible feed problems in the distribution system. If this correction does not solve the problem, use a constant voltage transformer. The constant voltage transformer stabilizes the input voltage to the systems by compensating for voltage changes at the primary in order to maintain a steady voltage at the secondary. When using a constant voltage transformer, check that the power rating is sufficient to supply the unit.

Location and Enclosure

- Place the unit to allow easy access to the system ports.
- Account for the unit dimensions when selecting an installation location or enclosure (see pg. 3).
- You can maintain the NEMA 4 seal by mounting the unit in an approved enclosure that has a 14 gauge (0.075"/1.9 mm thick) steel or (0.125"/3.2 mm thick) aluminum front face.
- Place the unit at a comfortable working level.
- Mount the unit in an upright position, if possible.
- Consider locations of accessories such as AC power outlets and lighting (interior lighting and windows) for installation and maintenance convenience.
- Prevent condensation by installing a thermostat-controlled heater or air conditioner.
- Avoid obstructing the airflow to allow for maximum cooling.
- Place any fans or blowers close to the heat-generating devices. If using a fan, make sure that outside air is not brought inside the enclosure unless a fabric or other

- reliable filter is used. This filtration prevents conductive particles or other harmful contaminants from entering the enclosure.
- Do not select a location near equipment that generates excessive electromagnetic interference (EMI) or radio frequency interface (RFI) (equipment such as high-power welding machines, induction heating equipment, and large motor starters).
- Do not place incoming power line devices (such as isolation or constant voltage transformers, local power disconnects, and surge suppressers) near the system. The proper location of incoming line devices keeps power wire runs as short as possible and minimizes electrical noise transmitted to the unit.
- Make sure the location does not exceed the unit's shock, vibration, and temperature specifications (see pg. 4 for specifications).
- Install the unit so it does not cause a hazard from uneven mechanical loading.
- Incorporate a readily accessible disconnect device in the fixed wiring on permanently connected equipment.
- Avoid overloading the supply circuit.

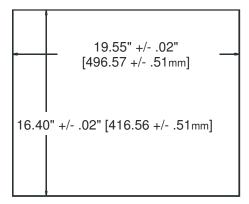
Panel Installation

This monitor should be mounted in and used where NEMA 4 and NEMA 12 type enclosures are employed. When mounted properly, the monitor meets or exceeds the sealing requirements set forth in the NEMA 4 and NEMA 12 specifications. The monitor uses "U"-shaped clips and a special gasket to achieve the proper seal.

To install the monitor, make a cutout per the diagram below in one of the walls of your NEMA enclosure. Enclosures made of heavier gauge metal work better in that they won't deform or bend as easily when the monitor's sealing gasket is compressed. Next hold the monitor in place while you install the mounting clips. Tighten the clips in a cross pattern. This will help to develop an even pressure on the sealing gasket. Tighten the clips to the point were the back of the monitor's front bezel just begins to contact the front of the NEMA enclosure.

Caution: Do not over tighten, because overtightening can cause damage to the monitor which can result in loss of seal integrity.

Panel Mounting Dimensions



3. Monitor Settings

Caution

Leaving your TFT LCD display on constantly can result in temporary image retention (TIR). TIR can be avoided by using a screen saver, enabling the idle/doze timeout feature, or by turning off the display when it is not in use.

Mode and Image Adjustment

Not all video controllers produce exactly the same video output levels or the same timing. The following procedure can be used to select the desired video mode as well as optimize your monitor's image quality. When adjusting your monitor, the use of video test software such as DisplayMate for Windows by SONERA Technologies can be very beneficial.

The SXT2011 automatically adjusts to most incoming video signals. Usually, only brightness, contrast and phase need to be adjusted by the user. "On Screen Programming" helps make setup and adjustment of these settings easy. The menus are selected and the menu items are adjusted using the buttons located on the monitor's front panel. These buttons are enabled or disabled by a rocker switch labeled "SET UP" located on the side of the monitor. This feature is provided to inhibit tampering once the monitor is in actual use. Turn the SET UP switch to the 'On' position to enable set up and adjustment. If you are using a "Plug and Play" operating system adjust your desktop display settings to the following before connecting the SXT2011 to your computer:

Vertical Refresh: 60 Hz Resolution: 1280 x 1024

If you are using a "Plug and Play" operating system, the monitor type and default settings are automatically detected by the operating system. If you are not using "Plug and Play", set your monitor type to:

Manufacture: (Standard monitor type)

Model: Super VGA 1290 x 1024 @ 60 Hz

Vertical Refresh: 60 Hz Resolution: 1280 x 1024

Once the monitor is powered up, press the *menu* button. After the On Screen Display (OSD) menu appears select the "Brightness and Contrast" function by continuing to depress the menu button until it's graphic is highlighted.

Once this graphic is highlighted, the following image will appear:

Brightness Increase/decrease panel brightness level, total: 100 steps

Contrast Increase/decrease panel contrast level, total: 100 steps

Use the $\hat{\parallel}$ and $\hat{\Downarrow}$ buttons to select either contrast or brightness. Now use \Leftarrow and \Rightarrow buttons to set the desired level. Once brightness and contrast have been set the phase should be adjusted. Continue pressing the *menu* button until "Frequency and Phase" graphic is highlighted.

Once this graphic is highlighted, the following image will appear: Frequency Adjust the image horizontal size Fine-tune the data sampling position (adjust image quality) Phase

Use the \uparrow and \downarrow buttons to select phase. Now use \Leftarrow and \Rightarrow buttons to fine-tune the image quality. After completing this adjustment, exit the set up menu by either waiting about five seconds without further button depressions or by hitting the menu button and scrolling until the Exit graphic is highlighted.

Once the following graphic is highlighted press the \Rightarrow to exit.

Video Modes Supported

Mode	Horizontal Sync Rate (KHz)	Vertical Sync Rate (KHz)	Dot Freq. (MHz)	Expansion	Factor
				Vertical	Horizontal
VESA VGA	31.5	60	25.175		
(640x480)	37.9	72	31.500	2	2
	37.5	75	31.500	2	2
	43.3	85	36.000		
IBM (720x400)	31.5	70	28.322	1.7	1.7
	37.9	85	35.500	1.7	1.7
VESA SVGA	35.1	56	36.000		
(800x600)	37.9	60	40.000		
	48.1	72	50.000	1.5	1.5
	46.9	75	49.500		
	53.7	85	56.250		
VESA XGA	48.4	60	65.000		
(1024x768)	56.5 57.5	70 72	75.000 75.000		
	60.0	75	78.780	1.25	1.25
	68.7	85	94.500		
	35.5	87	44.900		
VESA SXGA	64.0	60	108.000		1
(1280x1024)	78.1 80.0	72 75	135.000 135.000	1	1

Onscreen Display (OSD) Functions

Front Panel Controls

The front panel controls, from left to right are **Menu**, **Select**, **Increment/Decrement**, **Power**.



Menu: Turns on the onscreen menu. Also steps to the next menu group.

Select: These buttons highlight and select menu items. They also increase or decrease brightness.

Increment and **Decrement**: These buttons are used to scroll through menu items or to

adjust settings. They also increase or decrease contrast.

Power: Power on LED.

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Main OSD menu

This menu is opened with the **Menu** button. The following icons are displayed with their labels appearing in the top blue bar of the menu screen.

* Displayed in PC Mode only.

**Displayed in Video Mode only.

Menu Item	Description	
	Brightness	Increase/decrease panel brightness level, total: 100 steps
Brightness/Contrast	Contrast	Increase/decrease panel brightness level, total: 100 steps
Color Temperature	9500K / 8000K / 6500K / 5000K	Adjust the warmness of the image displayed. The higher temperature the coolest image looks like. The lower temperature the warmest image looks like.

	Color	Adjust video color level		
	Tint	Adjust video tint level		
Video Adjustment**	Sharpness	Adjust video image sharpness level		
	Video Type	1 * -		
	Frequency	Adjust the image horizontal size		
Frequency&Phase*	Phase	Fine tune the data sampling position (adjust im	age quality)	
Trequency at mase	AUTO	automatic detection of NTSC and PAL		
	71010	system (not applicable in SECAM system)	Select video	
₿ NISC	NTSC/NTSC 4.43	manual select NTSC system	system and	
Video System**	PAL/PALM	manual select PAL system	input signals	
	SECAM	manual select SECAM system	input signais	
	SECAIVI	manual select SECAM system		
	Displa	ay graphic information: resolution and frequency	1	
Status*				
**************************************	Image up/down	Use $\hat{\parallel}$ and $\hat{\Downarrow}$ to move the image vertically		
Position	Image left/right	Use \Leftarrow and \Rightarrow buttons to move the image horiz	zontally	
7 (5)	Rotates the image from landscape format to portrait format.			
Rotation**				
	PIP Size	Size Select PIP window size: close, size 1, size 2, size 3		
	PIP Source			
		Auto – automatic detection of Composite or S-		
		Comp – manual select composite video only		
	advanced settings:	SVid – manual select S-video only		
Picture in Picture*	Brightness	Adjust the image brightness of the PIP window		
T lotare in r lotare	Contrast	· · ·		
	Sharpness			
	Tint			
	Color	ŷ e		
Use the ↑ and ↓ arrow keys to select the following scaling modes:				
	Normal, Letterbox, Letterbox with Subtitles			
	Troining, Developing, Developing Training Statistics			
Video Scaling**	Nonlinear Scaling Modes: Horiz Clipping / Horiz Offset / Horiz Stretch / Vert			
	Clipping / Vert Offset / Vert Stretch			
L	1			

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Menu Item Description			
	Use the ↑ and ↓ arrow keys to choose a scaler mode.		
	Use the \Leftarrow and \Rightarrow arrow keys to enough a scalar mode. Use the \Leftarrow and \Rightarrow arrow keys to modify a following scalar parameters.		
	ese the \leftarrow and \rightarrow arrow keys to modify a following section parameters.		
	One to One :		
		tal Pan – 🛡 +	
		Pan +	
	vertical i ali		
Graphic Scaling*	Fill Screen : enable full screen expansion for lower resolution Image : enable fill screen expansion for lower resolution image according to aspect ratio.		
	Nonlinear Scaling Modes: Horiz Clipping / Horiz Offset / Horiz Stretch / Vert Clipping / Vert Offset / Vert Stretch		
Language	Select OSD menu lar	nguage display. (English only).	
	Select the input video	o signal: Analog RGB / Component Video/	
Video Source	1	Composite Video / S-Video	
	User Setting:		
	User Timeout	Adjust the OSD menu timeout period in a step of 5 seconds	
	DPMS	Disable/Enable the DPMS function	
	Auto Source Select	Off / Low / High (disable or enable video source deletion)	
	OSD Setting:		
	OSD Horz Position	Move the OSD menu horizontally	
	OSD Vert Position	Move the OSD menu vertically	
	OSD Background	Translucent / Opaque	
	Freeze Frame	Freeze the image (use "⇒" button)	
		Enable the zoom in function on the image displayed.	
		Use "⇒" button to zoom in the image.	
	Zoom Level	Use "\(\sigma\) "button to decrease the zoomed image.	
		Horizontari ani.	
Utilities	Dinast Assass #1	vertical ran.	
	Direct Access #1	Define the hot key function (\Leftarrow and \Rightarrow) for one of the	
		following adjustments : Brightness / Contrast / Volume / Freeze / Zoom / Video Source*	
	Direct Access #2	Define the hot key function (\uparrow and \downarrow) for one of the	
	Direct / Recess #2	following adjustments: Brightness / Contrast / Volume /	
		Freeze / Zoom / Video Source*	
		* By pressing the hot key, the source is in sequence of	
		Analog RGB/Component Video/Composite Video/S-Video.	
	Display Opiontation	Normal / Horizontal Inverse / Vertical Inverse / Inverse	
	Display Orientation		
	Calibrate RGBgain	Color Calibration (DISPLAYED IN PC MODE ONLY)	
	Load Factory Defaults	Recall factory default settings	
Volume	Adjust the audio volume level (functions only if the audio add-on installed).		
Exit Menu	Pressing the ⇒ exits the main menu		

Installing the Touch Screen Driver

If your Xycom flat panel monitor has the touch screen option, you will have to load the correct touch screen driver on the computer to which you will be connecting the monitor. The following steps should be performed on that computer.

Note: The following instructions assume that a web browser is installed on the computer.

- 1. Insert the Xycom Automation Documentation and Support Library CD into the CD-ROM drive.
- 2. If the Doc CD autostarts, proceed to the next step. If the Doc CD does not autostart, open the CD in Windows Explorer and double click on the file "index.html."
- 3. Choose "Flat Panel Monitors" from the links at the top of the home page and then choose the appropriate monitor model on the next page. From the resulting page, you can download the User Manual and/or the touch screen driver.
- 4. Click on the link to "elo.zip" (the drivers for all of the operating systems are in this file). Type a destination folder to save the file in and press the "Save" button. The download will be very short.
- 5. Using Windows Explorer, go to the downloaded file and extract the compressed files into a folder of your choosing.
- 6. Go to the folder "Elo\Serial Controller" and then to the folder for your operating system.
 - If you are installing the DOS driver, click on "install.exe" and follow the instructions.
 - If you are installing one of the Windows drivers, click on "setup.exe" and follow the instructions.

If your computer doesn't have a web browser, open the CD in Windows Explorer and choose the "ELO.zip" file from the folder:

DRIVERS/Touchscreen

Copy it to a folder on your computer and follow steps 5 & 6 above.

4. Hardware

VGA Input Connector Pin Out

Signal Name	15-pin D-Shell (Female)
Red	1
Green	2
Blue	3
	4
GND-Digital	5
GND-Red return	6
GND-Green return	7
GND-Blue return	8
	9
GND-Digital	10
	11
	12
Hsync	13
Vsync	14
	15

Back Light Replacement Procedure

After 50,000 hours of use, the two lamps used for LCD back lighting may become dim or burn out. You may return the monitor to Xycom for lamp replacement or you can order new lamps and follow the procedure below to install them. You can perform the lamp replacement procedure without removing the monitor from the NEMA enclosure where it is mounted, but you should do this only in a clean environment. Otherwise, the procedure is better performed at a service bench.

- 1. TURN THE MONITOR POWER OFF AND DISCONNECT THE LINE CORD
- 2. Loosen the four thumbscrews that hold the back of the monitor on.
- 3. Separate the two halves of the monitor. If the unit is equipped with a touchscreen, you will have to disconnect its cable.
- 4. The lamps are mounted in small plastic carriers that slide in the right side of the LCD display at the top and bottom edges.
- 5. Note their orientation and then unplug the two sets of lamp wires (3" pink and white silicone wires) from the nearby inverter.
- 6. Look in the hole where the lamp is presently installed and note the small black locking tab on the front side of each hole. With a small slotted screwdriver, depress the tab while carefully pulling on the wires and slide the lamps outward. Discard the old lamps.
- 7. Carefully slide the new lamps fully into place noting the top lamp has a small triangle molded in the end where the wires protrude. Similar triangles a stamped in the LCD sheet metal near the top hole.

- 8. Reconnect the lamp wires to the inverter. These are keyed connectors permitting insertion in only one orientation.
- 9. You may now want to clean the LCD and the inside of the monitor window or touchscreen with a slightly damp soft cloth.
- 10. Carefully reunite the two monitor halves remembering to reconnect the touchscreen cable if the unit is so equipped.
- 11. The lamp replacement procedure is now complete.

Appendix A – Technical Support

Reaching Technical Support

Xycom Automation Technical Support offers a variety of support options to answer any questions on Xycom Automation products and their implementation.

Refer to the relevant chapter(s) in your documentation for a possible solution to any problem you may have with your system. If you find it necessary to contact Technical Support for assistance, please have the following information at your fingertips:

- 1. Serial number and model number.
- 2. The operating system type and version (i.e., Microsoft Windows NT version 4.0).
- 3. Exact wording of system error messages encountered.
- 4. Any relevant output listing from the Microsoft Diagnostic utility (MSD) or other diagnostic applications.
- 5. Details of attempts made to rectify the problem(s) and results.
- 6. The log number assigned from Xycom Automation Technical Support if this is an ongoing problem.
- 7. The name of the Technical Support Engineer with whom you last spoke, if known.

Internet Access

Xycom Automation provides both World Wide Web and e-mail access via the Internet. To access the Xycom Automation Home Page, use **http://www.xycom.com**. This page contains the newest product datasheets, references by industrial sector, and application notes.

Email

To reach Xycom Automation Technical Support via email: support@xycom.com

Phone

You can reach Xycom Automation Technical Support via phone: 734/944-0482.

Fax

You can fax your questions to Xycom Automation Technical Support at: 734/429-1010

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