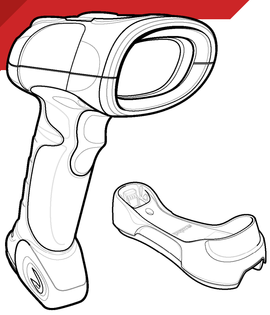
symbol®
The Enterprise Mobility Company™

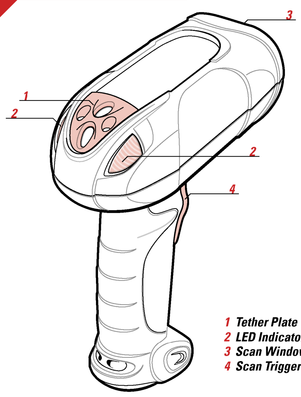
LS 3478 Quick Start Guide

http://www.symbol.com/barcode

See Product Reference Guide for more information

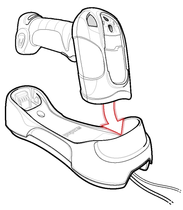
POST IN WORK AREA

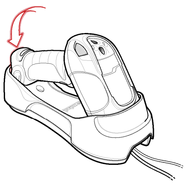




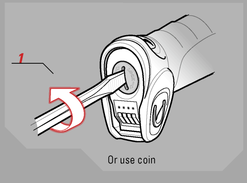
1 Tether Plate
2 LED Indicators
3 Scan Window
4 Scan Trigger

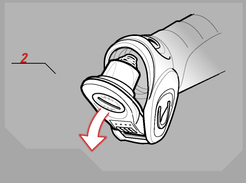
Cradle Insertion

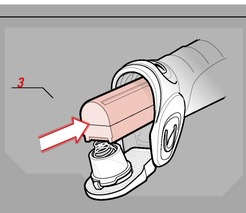


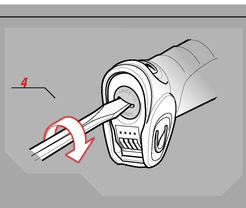


Battery Insertion/Removal





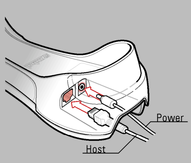


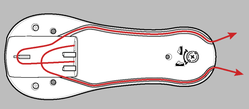


Host Interfaces

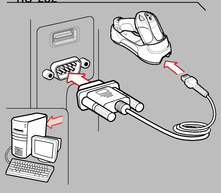
NOTE: Cables may vary depending on configuration

Cable Connection at Cradle

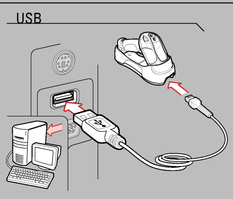




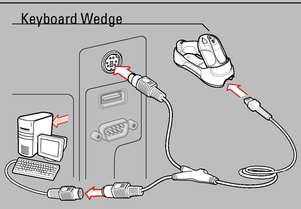
RS-232



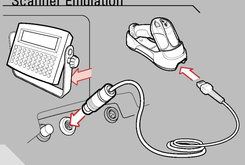
USB



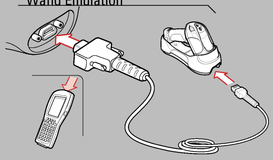
Keyboard Wedge



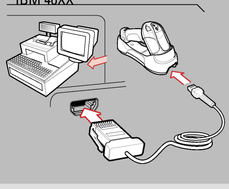
Scanner Emulation



Wand Emulation



IBM 46XX



Troubleshooting

Please refer to the LS 3478 Product Reference Guide Troubleshooting section for further information.

Scanner not working

No power to scanner
- Check battery

End cap not secured correctly
- Turn end cap to secure

Scanner not decoding bar code

Scanner not programmed for bar code type
- Ensure scanner is programmed to read type of bar code being scanned

Bar code unreadable
- Ensure bar code is not defaced; try scanning test bar code of same bar code type

Distance between scanner and bar code incorrect
- Move scanner closer to or further from bar code

Scanner decoding bar code, but data not transmitting to host

Scanner not paired to host-connected cradle
- Pair the scanner to the cradle (using the PAIR bar code on the cradle)

Cradle not programmed for correct host interface
- Check scanner host parameters or edit options

Interface cable is loose
- Check for loose cable connections

If data is still not transmitting to host, it may be necessary to recycle power on the cradle

Scanned data incorrectly displayed on host

Paired cradle host communication parameters do not match the host's parameters
- Check cradle host parameters or edit options

LS 3478 Programming Bar Codes

Set Defaults

SET DEFAULTS

Unpairing/Disconnection

UNPAIR/DISCONNECT

USB Host Types

HID KEYBOARD EMULATION

IBM HAND-HELD USB

RS-232 Host Types

STANDARD RS-232

ICL RS-232

NIXDORF RS-232 MODE A

IBM 46XX Host Types

PORT 5B

PORT 9B

Keyboard Wedge Host Types

IBM PC/AT and IBM PC COMPATIBLE

NIXDORF RS-232 MODE B

FUJITSU RS-232

OPOS/JPOS

Scanner Emulation Host Types

SCANNER EMULATION

Wand Emulation Host Types

SYMBOL WAND

ENABLE CONVERT TO CODE 39

DISABLE CONVERT TO CODE 39

Carriage Return/Line Feed

SCAN OPTIONS

<DATA><SUFFIX>

ENTER

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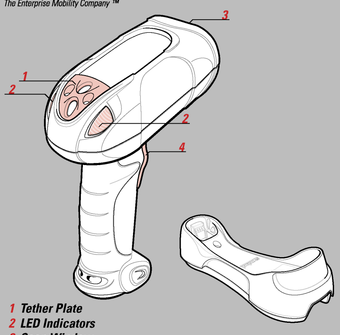

1 Tether Plate
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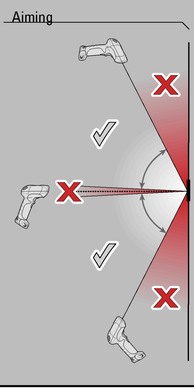
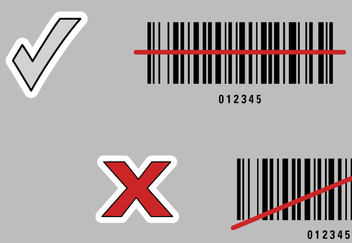
Optimum Scanning Positions



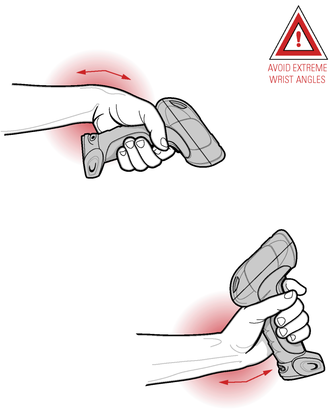


ALTERNATE LEFT AND RIGHT HANDS

TAKING BREAKS AND TASK ROTATION RECOMMENDED

Optimum Upright Body Posture

Avoid Extreme Wrist Angles



Beeper Indications

Standard Use

Beep	Meaning
Low-medium-high beep	Power up
Short high beep	Bar code decoded [if decode beeper enabled]
4 long low beeps	Transmission error detected; data is ignored
4 short high beeps	Low battery indication
Short low-high beep	Scanner has paired with the cradle
High-low beep	Scanner has unpaired from the cradle
Long low-high beep	Unsuccessful pairing attempt

Parameter Menu Scanning

Beep	Meaning
High-low-high-low beep	Successful parameter setting
High-low beep	Correct programming sequence performed
Long low-high beep	Incorrect programming sequence or Cancel bar code scanned

LED Indications

Standard Use

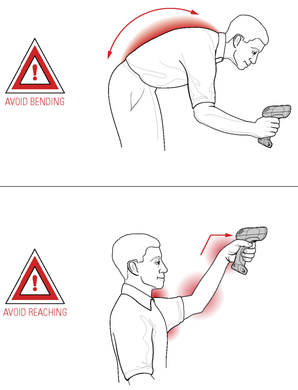
LED	Meaning
Off	No power applied to scanner, or scanner is on and ready to scan
Green	Bar code successfully decoded
Red	Data transmission error or scanner malfunction

Charging Use

LED	Meaning
Green Slow Flash	Scanner charging in slow mode (used when cradle is powered from USB bus)
Green Fast Flash	Scanner charging in rapid mode (used when cradle is powered from external power supply)
Red Flash	Charging problem

Optimum Body Posture for Low Scanning

ALTERNATE LEFT AND RIGHT KNEES



Optimum Body Posture for Extended Range Scanning

POST IN WORK AREA

72-67137-01 Revision 2 July 2004

LS 3478 Recommended Usage Guide

http://www.symbol.com/barcode

SYMBOL TECHNOLOGIES, INC. One Symbol Plaza Holtsville, New York 11742-1300

Local Contact:_____

Regulatory Information

Patents

This product may be covered by one or more U.S. and foreign Patents. For patent information go to: www.symbol.com/patents

Ergonomic Recommendations

Caution: In order to avoid or minimize the potential risk of ergonomic injury follow the recommendations below. Consult with your local Health & Safety Manager to ensure that you are adhering to your company's safety programs to prevent employee injury.

- Reduce or eliminate repetitive motion
- Maintain a natural/neutral position
- Reduce or eliminate excessive force
- Keep objects that are used frequently within easy reach
- Perform tasks at correct heights
- Reduce or eliminate vibration
- Reduce or eliminate direct pressure
- Provide adjustable workstations
- Provide adequate clearance
- Provide a suitable working environment
- Improve work procedures.

Regulatory Information

All Symbol devices are designed to be compliant with rules and regulations in locations they are sold and will be labeled as required. Any changes or modifications to Symbol Technologies equipment, not expressly approved by Symbol Technologies, could void the user's authority to operate the equipment.

Regulatory Information is available in French, Italian, German, Spanish (Spain), Portuguese, Japanese, Korean, and simplified Chinese. Please see Web site: http:// www.symbol.com/manuals and look for your specific product.

Service Information

Before you use the unit, it must be configured to operate in your facility's network and run your applications.

If you have a problem running your unit or using your equipment, contact your facility's Technical or Systems Support. If there is a problem with the equipment, they will contact the Symbol Support Center:

United States	1-800-653-5350 or 1-631-738-2400
Canada	905-629-7226
United Kingdom	0800 328 2424
Asia/Pacific	+65-6796-9600
Australia	1-800-672-906
Austria/Österreich	01-5055794-0
Denmark/Danmark	7020-1718
Finland/Suomi	9 5407 580
France	01-40-96-52-21
Germany/Deutschland	6074-49020
Italy/Italia	2-484441
Mexico/México	5-520-1835
Netherlands/Nederland	315-271700
Norway/Norge	+47 2232 4375
South Africa	11-8095311
Spain/España	91 324 40 00 (Inside Spain)
	+34 91 324 40 00 (Outside Spain)
Sweden/Sverige	08 445 29 00
Latin America Sales Support	1-800-347-0178 (Inside US)
	+1-954-255-2610 (Outside US)
Europe/Mid-East Distributor Operations	
Contact local distributor or call	+44 118 945 7360

For the latest version of this guide go to: http://www.symbol.com/manuals.

72-67137-01 Revision 3 September 2004

LS 3478

http://www.symbol.com/barcode

Country Approval

Regulatory markings are applied to the device signifying the radio (s) are approved for use in the following countries: United States, Canada, Australia, Japan & Europe[1].

Please refer to the Symbol Declaration of Conformity (DoC) for details of other country markings. This is available at http://www2.symbol.com/doc/.

Note[1]: For 2.4GHz Products: Europe includes, Austria, Belgium, Czech Republic, Croatia, Cyprus, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovak Republic, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

Radio Modules

The LS 3478 Scanners contain an approved radio module. This module is the Symbol Bluetooth radio Type: 21-64381

Bluetooth Devices

This product is an approved Bluetooth device. BT ID: BT01784

Operation of the device without regulatory approval is illegal.

Power Supply

Use only a Symbol-approved power supply 50-14000-101 output rated 9 Vdc and minimum 1 A. The power supply is certified to EN60950 with SELV outputs. Use of alternative power supply will invalidate any approval given to this device and may be dangerous.

FCC / EU RF Exposure Guidelines

Safety Information
The device complies with Internationally recognised standards covering Specific Absorption Rate (SAR) related to human exposure to electromagnetic fields from radio devices.

Reducing RF Exposure – Use Properly
It is advisable to use the device only in the normal operating position.

Hand Held Devices:
To comply with FCC RF exposure requirements, this device must be operated in the hand. Other operating configurations should be avoided.

Radio Frequency Interference Requirements

Tested to comply with FCC Standards
FOR HOME OR OFFICE USE

Radio Transmitters (Part 15)
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.

Radio Frequency Interference Requirements – Canada

Radio Transmitters
This device complies with RSS 210 of Industry & Science Canada. 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.

Label Marking: The Term "IC:" before the radio certification only signifies that Industry Canada technical specifications were met.

CE

Marking and European Economic Area (EEA)

Bluetooth for use through the EEA have the following restrictions:
- Maximum radiated transmit power of 10mW EIRP in the frequency range 2.400 -2.4835 GHz
- Belgium outside usage, the equipment is restricted to 2.460 -2.4835 GHz frequency range
- Italy requires a user license for outside usage.

Statement of Compliance
Symbol Technologies, Inc., hereby, declares that this device is in compliance with the essential requirements and other relevant provisions of Directives 1999/5/EC, 89/336/EEC and 73/23/EEC. Declaration of Conformities may be obtained from http://www2.symbol.com/doc/

Laser Labels

In accordance with Clause 5, IEC 825 and EN60825, the following information is provided to the user:

ENGLISH
CLASS 1 CLASS 1 LASER PRODUCT
CLASS 2 LASER LIGHT
DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT

DANISH / DANSK
KLASSE 1 KLASSE 1 LASERPRODUKT
KLASSE 2 LASERLYF
SE IKKE IND I STRÅLEN
KLASSE 2 LASERPRODUKT

DUTCH / NEDERLANDS
KLASSE 1 KLASSE-1 LASERPRODUKT
KLASSE 2 LASERLICHT
NIET IN STRAAL STAREN
KLASSE-2 LASERPRODUKT

FINNISH / SUOMI
LUOKKA 1 LUOKKA 1 LASERTUOTE
LUOKKA 2 LASERVALO
ÄLÄ TUIJOTA SÄDETTÄ
LUOKKA 2 LASERTUOTE

FRENCH / FRANÇAIS
CLASSE 1 PRODUIT LASER DE CLASSE 1
CLASSE 2 LUMIERE LASER
NE PAS REGARDER LE RAYON FIXEMENT
PRODUIT LASER DE CLASSE 2

GERMAN / DEUTSCH
KLASSE 1 LASERPRODUKT DER KLASSE 1
KLASSE 2 LASERSTRAHLEN
NICHT DIREKT IN DEN LASERSTRAHL SCHAUEN
LASERPRODUKT DER KLASSE 2

JAPANESE / 日本語
第1種 第1種レーザー製品
第2種 レーザー光線
光線を見つめないでください
2種 レーザー製品

HEBREW
מוצר לייזר רמה 1 רמה 1
אור לייזר רמה 2
אין להביט אל תוך הזוהם
מוצר לייזר רמה 2

ITALIAN / ITALIANO
CLASSE 1 PRODOTTO AL LASER DI CLASSE 1
CLASSE 2 LUCE LASER
NON FISSARE IL RAGGIO PRODOTTO
AL LASER DI CLASSE 2

NORWEGIAN / NORSK
KLASSE 1 LASERPRODUKT, KLASSE 1
KLASSE 2 LASERLYS IKKE STIRR INN I LYSSTRÅLEN
LASERPRODUKT, KLASSE 2

PORTUGUESE / PORTUGUÊS
CLASSE 1 PRODUTO LASER DA CLASSE 1
CLASSE 2 LUZ DE LASER NÃO FIXAR O RAIO LUMINOSO
PRODUTO LASER DA CLASSE 2

SPANISH / ESPAÑOL
CLASE 1 PRODUCTO LASER DE LA CLASE 1
CLASE 2 LUZ LASER
NO MIRE FIJAMENTE EL HAZ
PRODUCTO LASER DE LA CLASE 2

SWEDISH / SVENSKA
KLASS 1 LASERPRODUKT KLASS 1
KLASS 2 LASERLJUS STIRRA INTE MOT STRÅLEN
LASERPRODUKT KLASS 2

CHINESE / 简体中文
1 类 1 类激光产品
2 类 激光切勿注视光束
2 类激光产品

Laser Devices

Symbol products using lasers comply with US 21CFR1040.10, and IEC825-1:1993, EN60825-1:1994+A11:1996. The laser classification is marked on one of the labels on the device.

Class 1 Laser devices are not considered to be hazardous when used for their intended purpose. The following statement is required to comply with US and international regulations:

Caution: Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.

Class 2 laser scanners use a low power, visible light diode. As with any very bright light source, such as the sun, the user should avoid staring directly into the light beam. Momentary exposure to a Class 2 laser is not known to be harmful.

Scanner Labeling