symbol®

Series 3500

Quick Reference • Guide utilisateur • Kurzübersicht
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Quick Reference

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One Symbol Plaza
Holtsville, N.Y. 11742-1300
http://www.symbol.com

rev. 1/99

Quick Reference

Introduction

The Series 3500 terminals are lightweight, battery powered, hand-held computer systems. Data can be entered using the terminal keyboard, the integrated laser scanner, or the tethered bar code scanners.

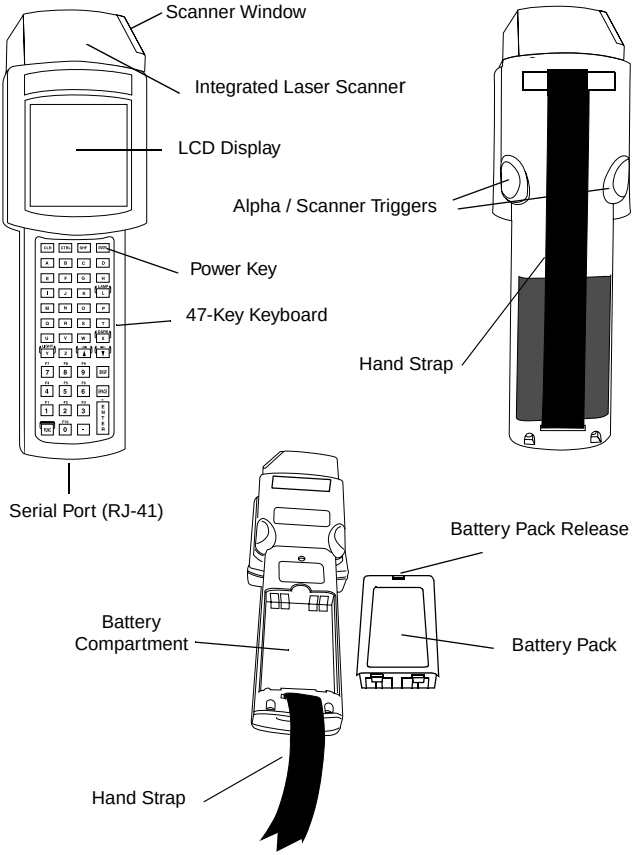
The Series 3500 consists of two terminals: the PDT 3500 and3510. Both can be used as remote terminals for collecting and storing data that is later uploaded to a host computer. The primary difference between the terminals is that the PDT 3510 has an internal radio transmitter and receiver.

About this Guide

This guide presents information on the parts of a Series 3500 terminal and instructions for the following procedures:

- Powering the terminal on and off
- Performing communications
- Charging the batteries
- Replacing the batteries
- Connecting the terminal to a printer
- Configuring the scanner trigger
- Attaching a tethered scanner
- Using the scanners

Parts of the Series 3500 Terminal



Quick Reference

Accessories

Required Accessories

Required PDT 35X0 accessories include:

- single-slot cradle, or
- four-slot cradle, or
- 3115 communications/charger adapter, with 15V power supply

Optional Accessories

Optional PDT 35X0 accessories include:

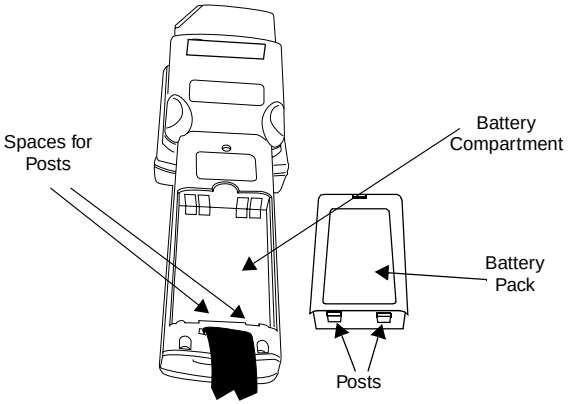
- NiCd, or NiMH batteries
- Symbol printers
  - PS 1000
  - PS 200
  - PS 8000
- Symbol laser scanners
  - LS 2000
  - LS 3000
  - LS 4800
  - LS 9100
  - LT 1700
- Symbol contact wand scanner, LP 1500
- Battery charger
  - UBC 1000 charger

Installation Overview

- Install a new or recharged battery pack.
- Charge the battery fully before using the terminal.
- Turn on the terminal.

To Install a New or Recharged Battery Pack

1. Insert the battery pack in the bottom of the compartment. Two posts on the battery pack must fit in corresponding spaces in the housing.



2. Push the battery pack's upper surface forward until it lies flat in the compartment, flush with the housing.

   When it lies in this position, the lift tab should snap in and the contacts should meet.

   You may wish to charge another battery pack to have one available later. See *Battery Charging and Communications*.

3. Reattach the handstrap.

Power On and Off

Note: *Charge that battery fully before using the terminal.*

To turn the terminal on or off, press **ON/OFF.**

Battery Charging and Communications

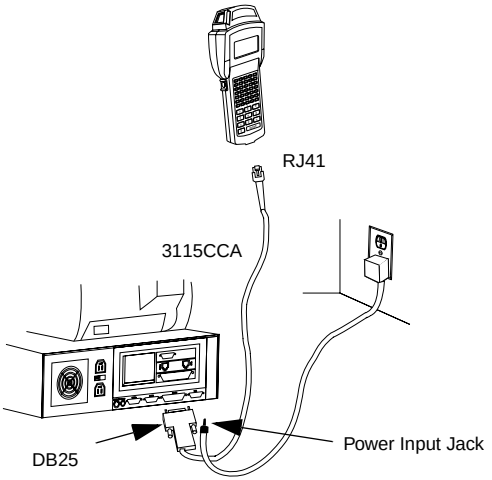
To perform communications with the PDT 3500, you have the option of using either a CRD 3100-1000/4000 or the 3115 Communications/Charger Adapter.

For charging the batteries, you may use the UBC 1000 or the CRD 3100-1000/4000. Each has its own *Quick Reference Guide*.

Note: *If the terminal has been left in the cradle for recharging, the battery pack may become warm. This condition is normal.*

3115 Communications/Charger Adapter

The Series 3500 has an optional communications / charger adapter (CCA) that facilitates communication with a host when no cradle is available, and provides power to the terminal from a wall-mounted power supply to maintain battery charge during terminal use and flash EPROM programming.



To charge the batteries, use the cradle as detailed in *Cradles, Battery Charging* or use the UBC-1000.

Communications

Note: *It is NOT necessary to connect the terminal to a power source for communications.*

To communicate with a PC or printer:

1. Plug the 10-pin RJ41 connector into the base of a Series 3500 terminal.
2. Plug the DB25 connector into the host's communications port.

To connect the CCA to a modem:

1. Plug the 10-pin RJ41 connector into the base of a Series 3500 terminal.
2. Insert a female-to-male gender changer on the female DB25 connector before plugging the connector into the modem.

Note: *The CCA is shipped set for RS-232 communications with a PC. To use the CCA with a modem or printer may require changing the internal communications settings. Refer to the installation instructions (P/N 70-11314-XX).*

Cradles

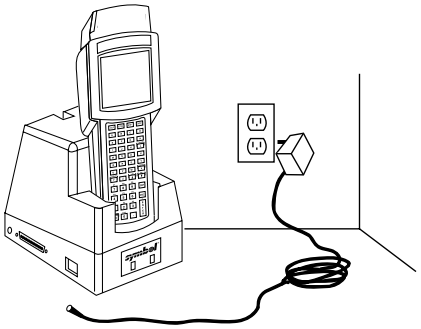
The single-slot and four-slot cradles are optional devices used for charging the batteries and performing host communication with the terminal.

Battery Charging

To recharge the NiCd or NiMH battery pack in the cradle:

1. Plug the power supply cord round plug in the power connector on the side of the cradle.
2. Connect the power supply cord AC plug to a standard electrical outlet.
3. Place the terminal in the cradle.

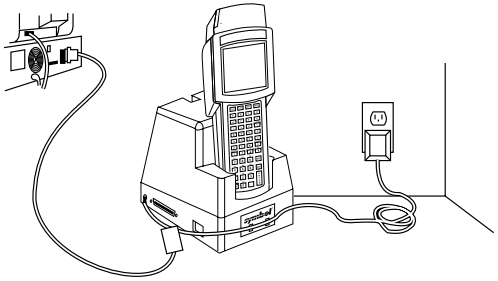
   The NiCd or NiMH battery pack is fully charged in approximately 3 to 5 hours.



Communications

To communicate using the cradle:

1. Perform Steps 1 - 2 from the section *Battery Charging*.
2. Connect the cradle to the host computer using a null modem cable
3. Insert the terminal in the cradle and perform the communication steps as detailed in the *Series 3100/3500 Product Reference Guide* (P / N 70-16645-XX) or *Series 3000 Application Programmer's Guide* (P / N 70-16308-XX).



4. If the cradle is equipped with a modem (single-slot cradles only), connect it directly to the telephone wall jack and proceed as directed in the *Series 3100/3500 Product Reference Guide*.

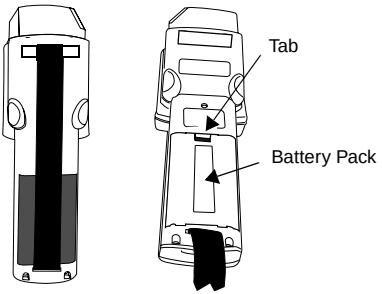
For more information on the single- and four-slot cradles, refer to the *CRD 31XX-1000/4000 Quick Reference Guide* (P / N 70-11313-XX).

Removing NiCd or NiMH Batteries for Recharge

Each available battery type uses a battery pack of the same physical form. So installation and replacement are the same for all battery types.

To Remove a Battery Pack:

1. Turn the terminal off.
2. Release the hand strap.
3. Grasp the tab (arrow) at the top of the battery pack and pull back.
4. Lift the battery up from the compartment, tabbed edge first.

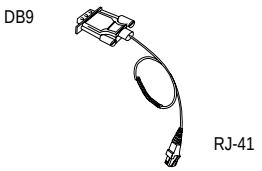


Caution

Dispose of dead batteries in accordance with battery label instructions.

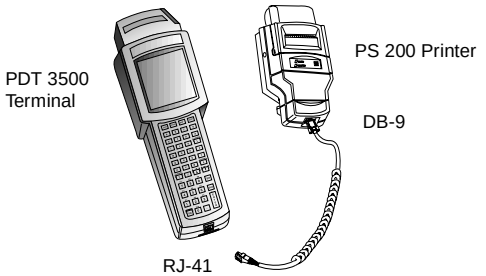
Connecting the Terminal to a Printer

The Series 3500 has an optional cable (p / n 25-10413-01) which can connect the terminal to a PS 1000 Series printer or to a tethered PS 200 printer (P / N 20-11062-03).



To connect the terminal to one of the printers listed above:

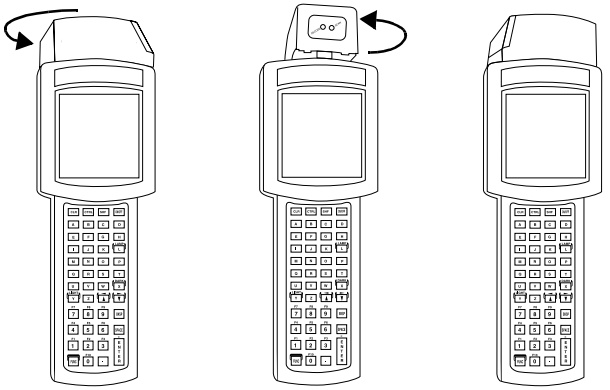
1. Plug the 10-pin RJ41 connector into the base of a Series 3500 terminal.
2. Plug the DB9 connector in the communications port on the printer.



Using the Integrated Laser Scanner

The integrated scanner has a unique trigger that the operator can configure. To select the trigger and use the integrated laser scanner:

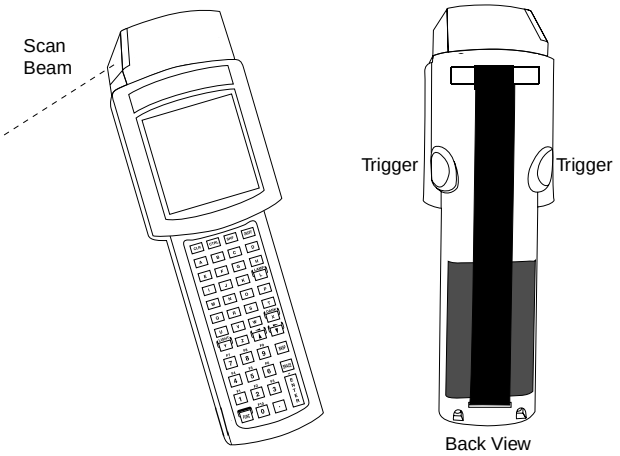
1. Power on the system and scanner by pressing **ON/OFF** or the scanner trigger.
2. Lift and turn the scanner toward the back until it turns to the direction you wish for scanning.



3. Press the **FUNC** key and the trigger you are most comfortable using. This selects the scanner trigger. The other trigger defaults to an **ALPHA** shift key (produces capital letters).

Scanning 1-D Bar Codes

1. Point the scanner at the bar code and press the trigger or press the soft trigger key (**ENTER**).



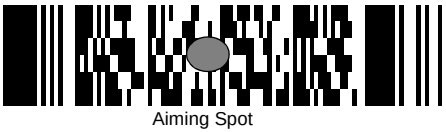
2. The thin, red laser beam covers the entire length of the bar code.

3. The terminal indicates a successful scan by illuminating the green scanner LED, beeping one or more times, and / or displaying the decoded bar code on the screen.

Scanning 2-D Bar Codes

The PDF417 bar code symbol has multiple rows, but the raster pattern also has multiple scanning rows. Whether the aiming pattern is a spot or slab raster, do two basic things as you scan:

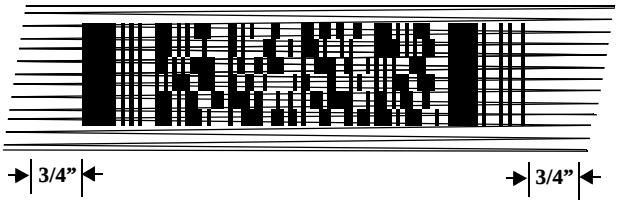
1. Point the scanner at the bar code and press the trigger or press the soft trigger key (**ENTER**).
2. Center the aiming pattern (a spot or slab raster, as programmed) on the bar code.



Aiming Spot

Slab Raster

3. As the raster pattern spreads, keep the pattern in the same horizontal plane as the bar code.

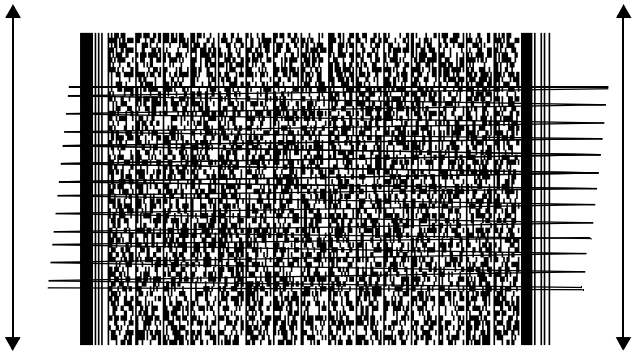


4. The terminal indicates a successful scan by illuminating the green scanner LED, beeping one or more times, and / or displaying the decoded bar code on the screen.

"Tall" PDF Bar Codes

If the PDF417 symbol is "tall," the vertical scan pattern may not be high enough to cover it.

In this case, try a slow "up and down" scanning motion. With the raster pattern open, try to move the scanner slowly down toward the bottom of the symbol, keeping the beam horizontal to the rows, and then slowly back upward toward the top.

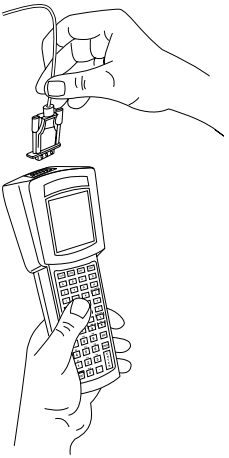


The scan beam does not have to be *perfectly* parallel with the top and bottom of the symbol (up to a 4° tilt will work).

Connecting and Using a Tethered Scanner

To attach a wand or laser scanner to the Series 3500 terminal:

1. Turn the system off.
2. Remove the plastic cap in the top of the terminal.
3. Plug the scanner into the top of the terminal as shown below.



4. Aim the scanner at the bar code and press the trigger.

Note: *Depending on your application, you may need to turn on the terminal before using the scanner.*

5. If using a wand, lightly touch the space by the bar code. In a straight line across the bar code, move the wand smoothly — at a moderate speed — from right to left or from left to right.

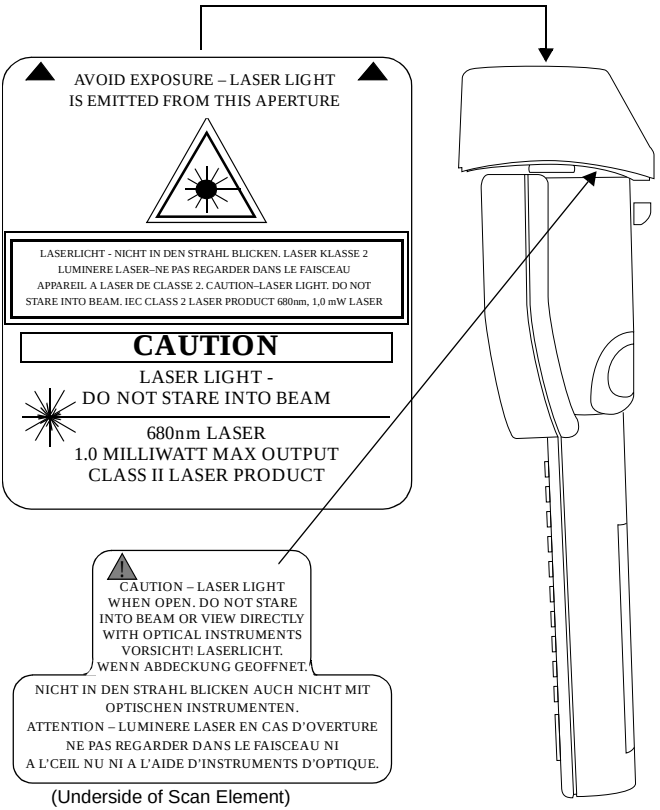
Regulatory Information

IEC825/EN60825 Class 1 Scanner

Series 3500 terminals equipped with an IEC825/EN60825 scanner operate on an emissions accumulator or "gas tank" which determines the amount of scan time that you have available. To meet low power consumption standards, the scanner cannot scan continuously.

If the gas tank runs out of scan time, the terminal emits a long low beep. Release the scan trigger and wait until the terminal emits a long high beep, indicating that it accrued enough scan time for you to resume scanning.

Scanner Labeling



(Underside of Scan Element)

Quick Reference

Radio Frequency Interference Requirements

This device must operate in compliance with Federal Communications Commission (FCC) Rules and Regulations Part 15.

This equipment has been tested and found to comply with the limits for 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.

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:

- Re-orient 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 the dealer or an experienced radio / TV technician for help.

Class I

Symbol U.S. Federal (FDA) / IEC825 / EN60825 Class 1 laser products use low power visible or IR lasers. Class 1 laser devices are not considered to be hazardous when used for their intended purpose. To comply with U. S. Federal and International regulations, the following statement is required.:

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

This advisory statement also applies to all other FDA / IEC825 / EN60825 classes of laser products.

In accordance with Clause 5, IEC 0825 and EN60825, the following information is provided to the user:

ENGLISH

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

DANISH

KLASSE 2 LASERLYF
SE IKKE IND I STRÅLEN
KLASSE 2 LASERPRODUKT

DUTCH

KLASSE 2 LASERLICHT
NIET IN STRAAL STAREN
KLASSE-2 LASERPRODUKT

FINNISH

LUOKKA 2 LASERVALO
ÄLÄ TUIJOTA SÄDETTÄ
LUOKKA 2 LASERTUOTE

FRENCH

CLASSE 2 LUMIERE LASER
NE PAS REGARDER LE RAYON FIXEMENT

GERMAN

KLASSE 2 LASERSTRAHLEN
NICHT DIREKT IN DEN LASERSTRAHL SCHAUEN
LASERPRODUKT DER KLASSE 2

HEBREW

רמה 2 אור לייזר
אין להביט אל תוך הזרם
מוצר לייזר רמה 2

ITALIAN

CLASSE 2 LUCE LASER
NON FISSARE IL RAGGIOPRODOTTO AL LASER DI CLASSE 2

NORWEGIAN

KLASSE 2 LASERLYS IKKE STIRR INN I LYSSTRÅLEN
LASERPRODUKT, KLASSE 2

PORTUGUESE

CLASSE 2 LUZ DE LASER NÃO FIXAR O RAIO LUMINOSO
PRODUTO LASER DA CLASSE 2

SPANISH

CLASE 2 LUZ LASER
NO MIRE FIJAMENTE EL HAZ
PRODUCTO LASER DE LA CLASE 2

SWEDISH

KLASS 2 LASERLJUS STIRRA INTE MOT STRÅLEN
LASERPRODUKT KLASS 2
TO AL LASER DI CLASSE 2

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	Canada	905-629-7226
United Kingdom	0800 328 2424	Asia/Pacific	337-6588
Australia	1-800-672-906	Austria	1-505-5794
Denmark	7020-1718	Finland	9 5407 580
France	01-40-96-52-21	Germany	6074-49020
Italy	2-484441	Mexico	5-520-1835
Netherlands	315-271700	Norway	66810600
South Africa	11-4405668	Spain	9-1-320-39-09
Sweden	84452900		
Latin America Sales Support		1-800-347-0178 Inside US +1-561-483-1275 Outside US	
Europe/Mid-East Distributor Operations		Contact local distributor or call +44 118 945 7360	

Warranty

Symbol Technologies, Inc. ("Symbol") manufactures its hardware products in accordance with industry-standard practices. Symbol warrants that for a period of twelve (12) months from date of shipment, products will be free from defects in materials and workmanship.

This warranty is provided to the original owner only and is not transferable to any third party. It shall not apply to any product (i) which has been repaired or altered unless done or approved by Symbol, (ii) which has not been maintained in accordance with any operating or handling instructions supplied by Symbol, (iii) which has been subjected to unusual physical or electrical stress, misuse, abuse, power shortage, negligence or accident or (iv) which has been used other than in accordance with the product operating and handling instructions. Preventive maintenance is the responsibility of customer and is not covered under this warranty.

Wear items and accessories having a Symbol serial number, will carry a 90-day limited warranty. Non-serialized items will carry a 30-day limited warranty.

Quick Reference

Warranty Coverage and Procedure

During the warranty period, Symbol will repair or replace defective products returned to Symbol's manufacturing plant in the US. For warranty service in North America, call the Symbol Support Center at 1-800-653-5350. International customers should contact the local Symbol office or support center. If warranty service is required, Symbol will issue a Return Material Authorization Number. Products must be shipped in the original or comparable packaging, shipping and insurance charges prepaid. Symbol will ship the repaired or replacement product freight and insurance prepaid in North America. Shipments from the US or other locations will be made F.O.B. Symbol's manufacturing plant.

Symbol will use new or refurbished parts at its discretion and will own all parts removed from repaired products. Customer will pay for the replacement product in case it does not return the replaced product to Symbol within 3 days of receipt of the replacement product. The process for return and customer's charges will be in accordance with Symbol's Exchange Policy in effect at the time of the exchange.

Customer accepts full responsibility for its software and data including the appropriate backup thereof.

Repair or replacement of a product during warranty will not extend the original warranty term.

Symbol's Customer Service organization offers an array of service plans, such as on-site, depot, or phone support, that can be implemented to meet customer's special operational requirements and are available at a substantial discount during warranty period.

General

Except for the warranties stated above, Symbol disclaims all warranties, express or implied, on products furnished hereunder, including without limitation implied warranties of merchantability and fitness for a particular purpose. The stated express warranties are in lieu of all obligations or liabilities on part of Symbol for damages, including without limitation, special, indirect, or consequential damages arising out of or in connection with the use or performance of the product.

Seller's liability for damages to buyer or others resulting from the use of any product, shall in no way exceed the purchase price of said product, except in instances of injury to persons or property.

Some states (or jurisdictions) do not allow the exclusion or limitation of incidental or consequential damages, so the proceeding exclusion or limitation may not apply to you.

70-16646-02
Revision B — March 1998