



Intermec



Installation Instructions

**Label Taken
Sensor Kit**
(for EasyCoder PM4i)

Intermec Printer AB

Idrottsvägen 10

P.O. Box 123

S-431 22 Mölndal

Sweden

Service support: +46 31 869500

The information contained herein is proprietary and is provided solely for the purpose of allowing customers to operate and/or service Intermec manufactured equipment and is not to be released, reproduced, or used for any other purpose without written permission of Intermec.

Information and specifications in this manual are subject to change without notice.

© 2003 by Intermec Printer AB

All Rights Reserved

EasyCoder and Fingerprint are registered trademarks of Intermec Technologies Corp. The word Intermec and the Intermec logo are trademarks of Intermec Technologies Corp.

Torx is a registered trademark of Camcar Division of Textron Inc.

Throughout this manual, trademarked names may be used. Rather than put a trademark (™) symbol in every occurrence of a trademarked name, we state that we are using the names only in an editorial fashion, and to the benefit of the trademark owner, with no intention of infringement.

Contents

Introduction iv
Printer Firmware iv
Installation Kit iv

1 Physical Installation

Installation Instructions 2

2 Controlling and Adjusting the LTS

Intermec Fingerprint v8.xx 6
IPL v2.xx 7

Introduction

This Installation Instructions booklet describes how to install a label taken sensor (LTS) in an EasyCoder PM4i printer, how to adjust the sensitivity, and how to control it in either Intermec Fingerprint or IPL.

The label taken sensor enables the printer's firmware to detect if the latest printed label (or similar) has been removed before starting to print next label. It consists of a light-emitting diode (LED) and a photoelectric sensor. The LED emits a narrow beam of light upwards towards the media outfeed area. If the light is reflected back by a label, that has not yet been removed, it will be detected by the sensor and a label-not-taken condition is assumed. The theoretical point of detection is 20.7 mm (0.81 in) outside the inner edge of the media path and immediately in front of the tear bar.



Warning

This interface kit must only be physically installed by an authorized service technician. Intermec assumes no responsibility for personal injury or damage to the equipment if the installation is performed by an unauthorized person.



Caution

Take precautions against electrostatic discharges, for example by wearing grounded bracelets.

Printer Firmware


Intermec Fingerprint v8.00 (or later) or IPL v2.00 (or later).

Installation Kit

The Label Taken Sensor Kit contains:

- One sensor with cable and connector
- One #T10 Torx screw with washer
- Two self-adhesive cable clips
- One Installation Instruction booklet

Tool requirements: #T10 and #T20 Torx screwdrivers.



1 Physical Installation

This chapter describes how to physically install the Label Taken Sensor (LTS) kit in an EasyCoder PM4i printer.

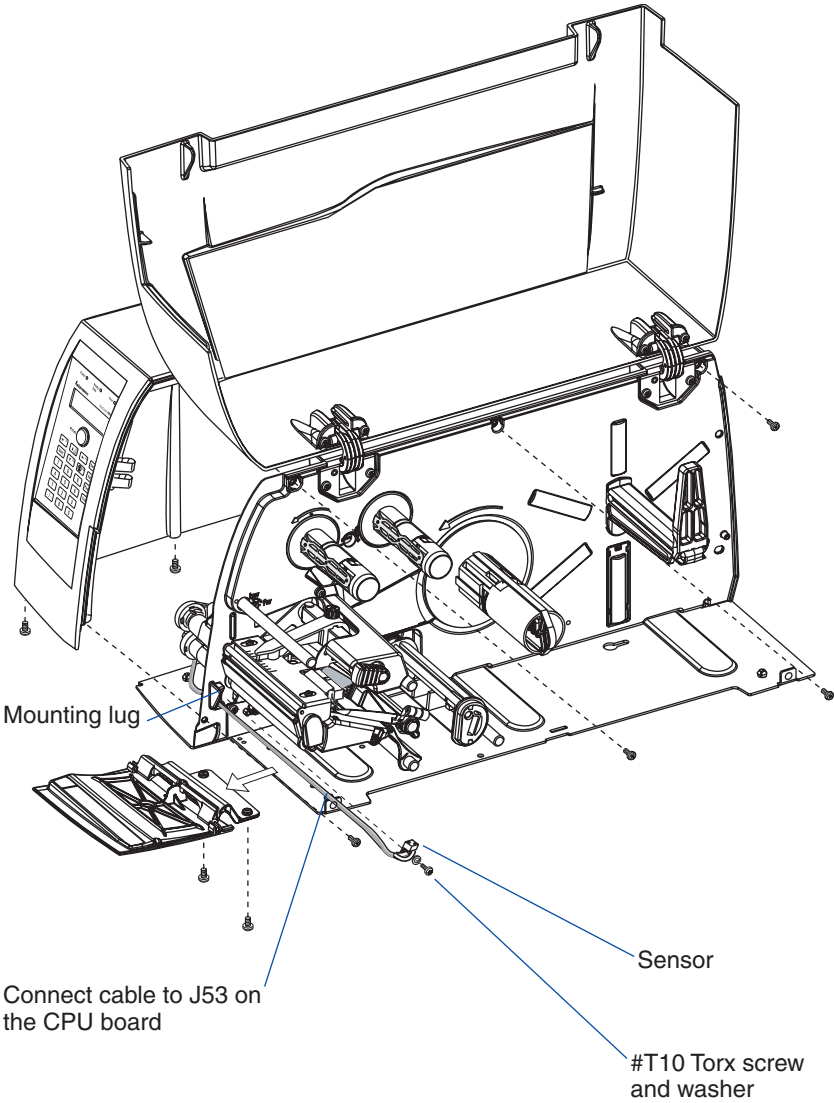
Installation Instructions

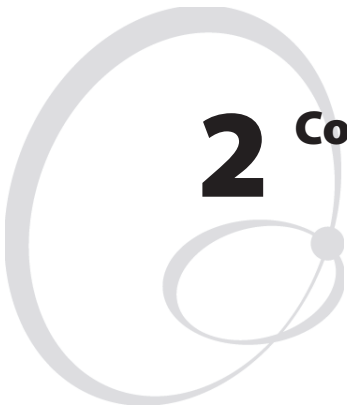
- Switch off the printer and disconnect the power cord.
- Disconnect all communication cables.
- Turn the printer over so it rests on its left-hand cover. Use a soft cloth or similar to avoid scratches.
- Open the right-hand door.
- Remove the front door, which is fitted to the bottom plate using two #T20 Torx screws.
- Using a #T20 Torx screwdriver, remove the four screws that hold the cover along the lower left edge of the bottom plate and the four screws that hold the cover to the center section.
- Put the printer back on its feet and remove the cover while disconnecting the console cable from the CPU board.



The electronic compartment contains wires and components with dangerous voltage (up to 380V). Make sure that the printer is switched off and the power cord is disconnected before the cover is removed.

- Put the cover aside taking care to avoid scratches.
- From the inside the electronics compartment, insert the LTS through the hole in the center section beneath the mounting lug.
- Fit the sensor to the mounting lug at the front of the center section using the #T10 Torx screw and washer included in the kit.
- Connect the cable to J53 at the lower edge of the CPU board. The connector is marked “LTS.”
- Secure the cable to the bottom plate using the two self-adhesive cable clips included in the kit.
- Connect the LTS cable to J53 at the lower edge of the CPU board. The connector is marked “LTS”.
- Put back the front door and the front/left-hand cover in reverse order. Remember to connect the console cable to the CPU board.
- Connect the power cord and all communication cables.





2 Control and Adjustment

This chapter describes how to control and adjust the label taken sensor in printers running either Intermec Fingerprint v8.00 (or later) or IPL v2.00 (or later).

Intermec Fingerprint

Controlling the LTS

The label taken sensor can be enabled using the instructions LTS& ON and LTS&OFF respectively. The status of the LTS can be polled using the function PRSTAT. See *Intermec Fingerprint v8.00, Programmer's Reference Manual*.

Adjusting the LTS

The sensitivity of the Label Taken Sensor (LTS) may need to be adjusted according to the ambient light conditions and the reflective characteristics of the back side of the media. The sensitivity can be adjusted in the Setup Mode or by using setup files or setup strings (see *Intermec Fingerprint v8.xx, Programmer's Reference Manual*). There are no straps or potentiometers for adjusting the LTS.

In the Setup Mode, the LTS setup options are only displayed if an optional label taken sensor is installed in the printer. Also refer to the *User's Guide*, chapters “Setting Up the Printer” and “Setup Mode” for instructions how to adjust the LTS.

- **LTS Adjust:**

Press <Enter>. A label is fed out. Remove the label and press <Enter> again. A menu shows the sensitivity automatically selected by the firmware and the range in which the LTS will work. Press <Enter> again and you will proceed to the LTS Test menu.

- **LTS Test:**

Press <Enter>. A label is fed out. Remove the label and a new label should be fed out automatically. Repeat until you are sure the LTS works properly. Then press <Enter> to stop and exit.

- **LTS Value:**

Press <Enter>. You can enter a new value in the range indicated in the LTS Adjust menu (see above). Min/max values are in the range 0-10.

IPL

Controlling the LTS

The label taken sensor works when the printer is in self-strip mode. The self-strip mode can be enabled or disabled using the following IPL commands:

`<STX>R<ETX>` enter print/configuration mode

`<STX>SI>tn<ETX>` n = 1 enables self-strip
 n = 0 disables self-strip

Adjusting the LTS

The sensitivity of the Label Taken Sensor (LTS) may need to be adjusted according to the ambient light conditions and the reflective characteristics of the back side of the media. The sensitivity can be adjusted in the Setup Mode. There are no straps or potentiometers for adjusting the LTS.

Refer to the *User's Guide*, chapters “Setting Up the Printer” and “Setup Mode” for instructions how to adjust the LTS.

- In the Setup Mode, step to the Configuration Part.
- Select Configuration/LTS Calibration.
- Follow the instructions shown in the display.



Intermec Printer AB

Idrottsvägen 10, P.O. Box 123
S-431 22 Mölndal, Sweden

tel +46 31 869500

fax +46 31 869595

www.intermec.com

Label Taken Sensor Installation Instructions



1-960604-00