

# Installation Instructions

*P/N 1-960494-01  
Edition 2  
November 2001*

# EasyCoder F2 & F4 Label Taken Sensor

 **ntermec**  
Technologies Corporation

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A **UNOVA** Company

# Description

## Application of Use

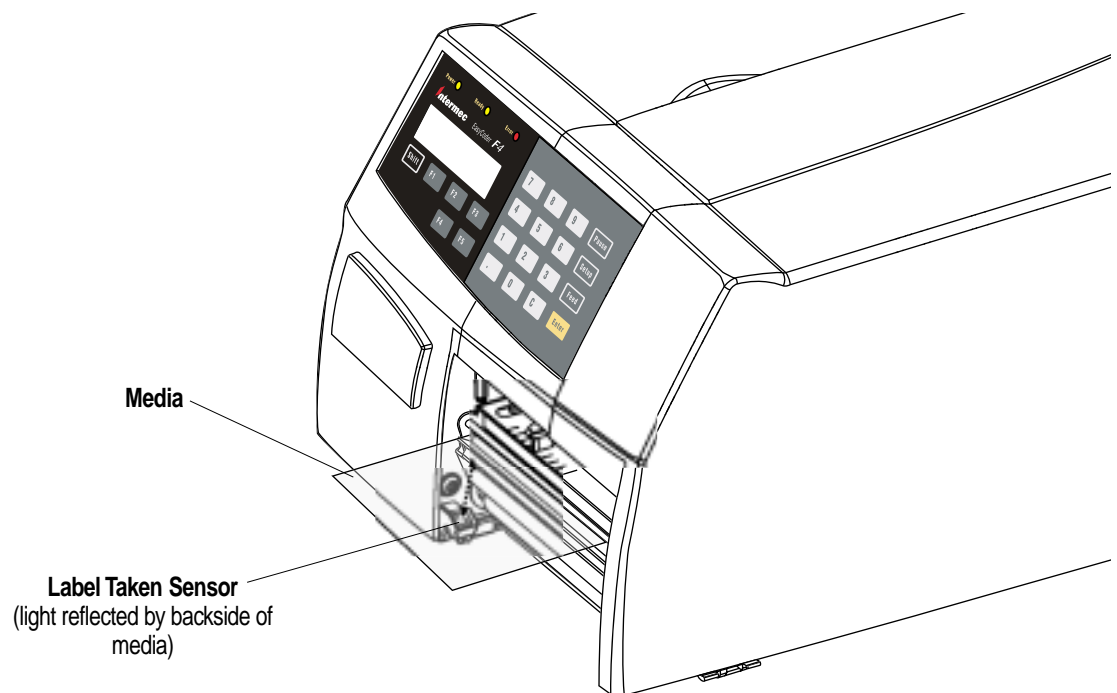
The Label Taken Sensor (LTS) is a factory-installed or field-installable optional device, which enables the printer's firmware to detect if the latest printed label, ticket, tag, etc. has been removed before printing another copy.

## Working Principles

The Label Taken Sensor consists of a photoelectric sensor with a bracket, a connection cable, and a circuit board.

A LED (light-emitting diode) in the LTS emits a narrow beam of light, which will be reflected back to a photoelectric sensor by any label, ticket, tag, piece of strip, or liner, that has not been removed from the outfeed area. A prerequisite is that the media is fed out along the center section of the printer.

The theoretical point of detection of the LTS is situated 20.66 mm (0.81 inches) outside the inner edge of the media path and immediately in front of the tear bar.



## Installation Kit

The Label Taken Sensor Kit consists of:

- Photoelectric sensor with cable and connector (1)
- Bracket (1)
- Circuit board (1)
- #T10 Torx screw (1)
- This Installation Instructions booklet

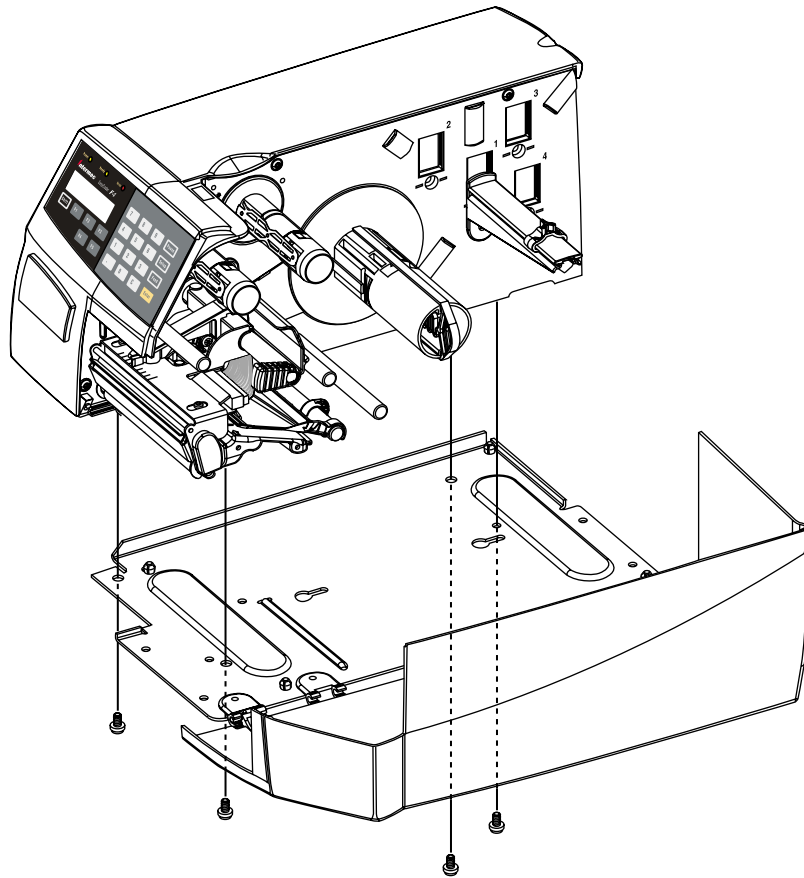
*EasyCoder F2 and F4  
Label Taken Sensor  
Installation Instructions  
Edition 2, November 2001  
Part No. 1-960494-01*

# Installation

## Step-by-Step Instructions

The only tools required is a set of Torx screwdrivers (#T10/20.) The same method applies to both EasyCoder F2 and EasyCoder F4.

- Switch off the power and disconnect the power cord.
- Remove the bottom plate/right-hand door assembly, which is held to the center section by four #T20 Torx screws.

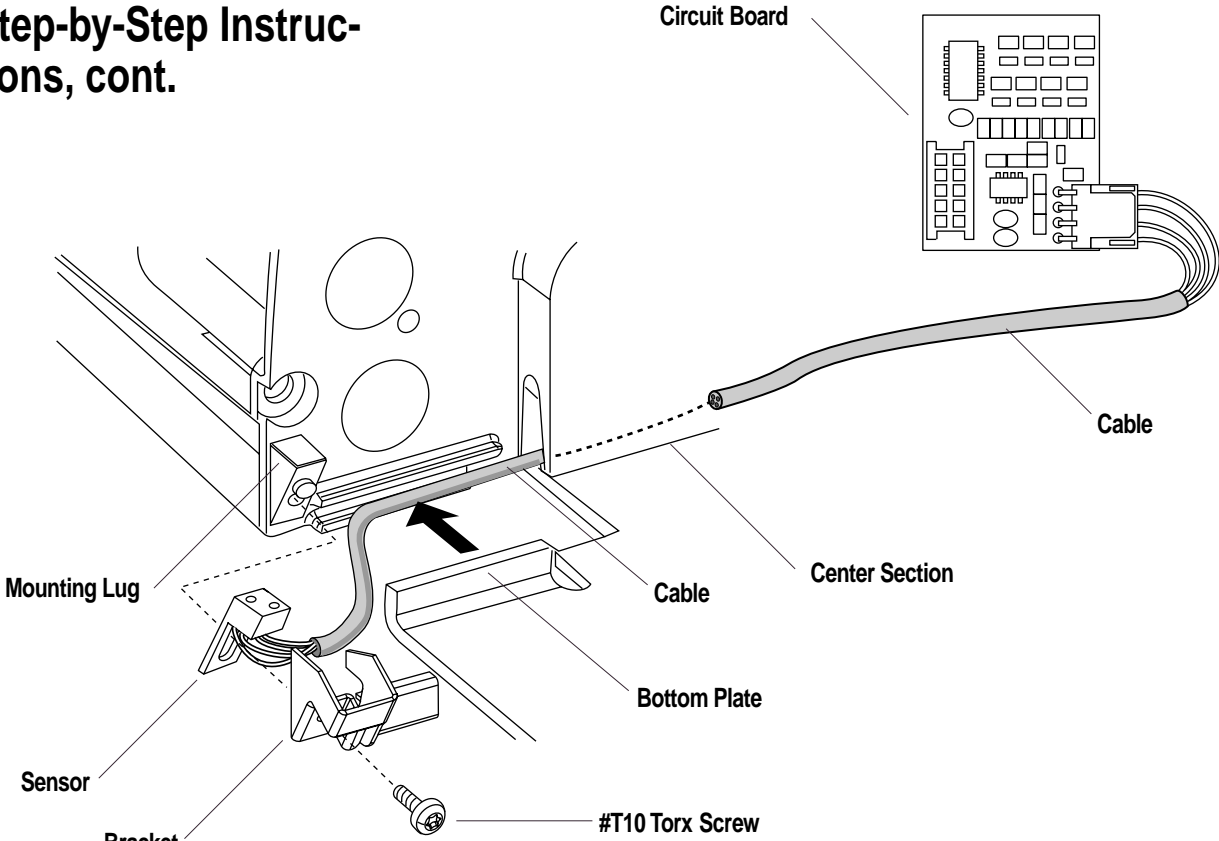


### **Warning!**

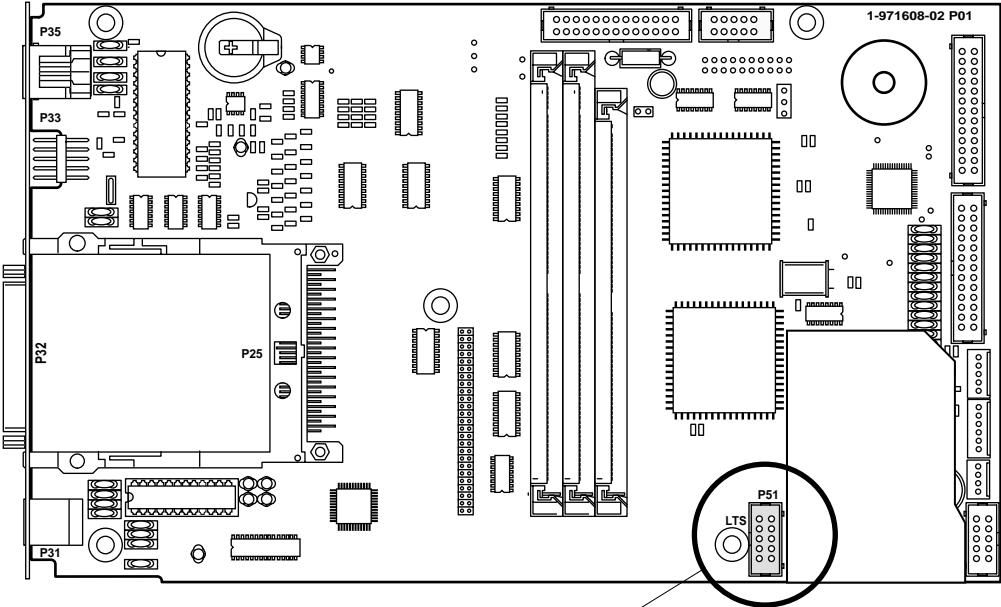
***When the bottom plate is removed, the power supply becomes exposed. It contains wires and circuits with high voltage. For safety reasons, the power must be switched off and power cord disconnected before the bottom plate is removed!***

- Fit the sensor assy into the bracket and route the cable between the bracket and the center section. Attach the sensor/bracket assy to the mounting lug at the front of center section using the #T10 Torx screw that comes with the kit. The diode and sensor should look upwards.
- Connect the cable to the LTS circuit board.
- Route the cable through the gap into the electronics compartment as illustrated on the next page.

### Step-by-Step Instructions, cont.



- Connect the LTS circuit board to P51 on the CPU board.



Connect Here!

- Put back the bottom plate/right-hand door assy so the bent-up part of the bottom plate holds the cable between the bars in the center section. Affix the bottom plate with the four #T20 Torx screws.
- Start up the printer, enter the Setup Mode and adjust the sensitivity of the new LTS as described in Chapter 3.

# Adjustment

## Introduction

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.

## Setup Mode (Fingerprint)

In the Setup Mode, the LTS setup options are only displayed if an optional label taken sensor is installed in the printer.

- **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.

## Setup Mode (IPL)

Select Lab Taken Sensor under Setup/Media and press <Enter>. You will now enter the calibration mode. Press <Enter> again to continue and follow the instructions on the display.

After calibration is done and a value for the LTS is given in the display, press <Enter> to return to the MEDIA setup or <F1> to go back to calibration.

If LTS Failure should occur, press <F1> to go back and do the calibration over again. An LTS failure also occurs if the option label taken sensor has not been properly installed.

To make the printer work in self-strip mode, that is, waiting for a label to be removed before the next label is printed, the self-strip mode must be enabled. This can be done by executing the following commands:

```
<STX>R<ETX>           enter print/configuration mode
<STX><SI>tn<ETX>      n=1 enables self-strip,
                        n=0 disables self-strip.
```

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