User's Manual

3400, 4420, and 4440 Cutter

Intermec

A **UNOVA** Company

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U.S. service and technical support: 1-800-755-5505
U.S. media supplies ordering information: 1-800-227-9947

Canadian service and technical support: 1-800-688-7043
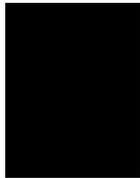Canadian media supplies ordering information: 1-800-268-6936

Outside U.S. and Canada: Contact your local Intermec service supplier.

This manual explains how to install and clean the cutter on your 3400, 4420, or 4440 printer. It also explains how to enable the cutter using PrintSet.

Introduction to the Cutter

With the cutter on your 3400, 4420, or 4440 printer, you can cut media into individual labels of the same or random lengths that are ready for use. The cutter blade is capable of cutting a wide range of die cut roll, continuous roll, or fanfold media; however, the cutter performs best with 7- to 10-mil thickness tag stock.

The cutter is mounted externally on the printer and cannot be used in conjunction with the self-strip/batch takeup option.

Note: If you use the cutter on adhesive backed materials, cut the liner between the labels. Cutting through adhesive is not recommended. You will need to clean the cutter every 10,000 cuts or when it fails to cut cleanly if you cut through adhesive backed material.

Cutter Parts and Function

The following table describes the parts and function of the cutter and how they connect to the printer.

Name	Description
Mounting plate	Attaches the cutter to the printer. The mounting plate has a spring mounted hinge that allows the cutter to swing down so that media can be fed easily through the cutter.
Cutter cable	Powers and sends commands from the main PCB to the cutter.
Cutter connector	Connects the cutter cable to the main PCB.
Cutter cover	Prevents fingers from coming into contact with the cutter blade. It opens easily for cleaning.
Cutter blade	Cuts the media when the printer reaches the end of the label.
Thumbscrews	Attach the mounting plate to the cutter and the cutter to the mounting plate.

Attaching the Cutter
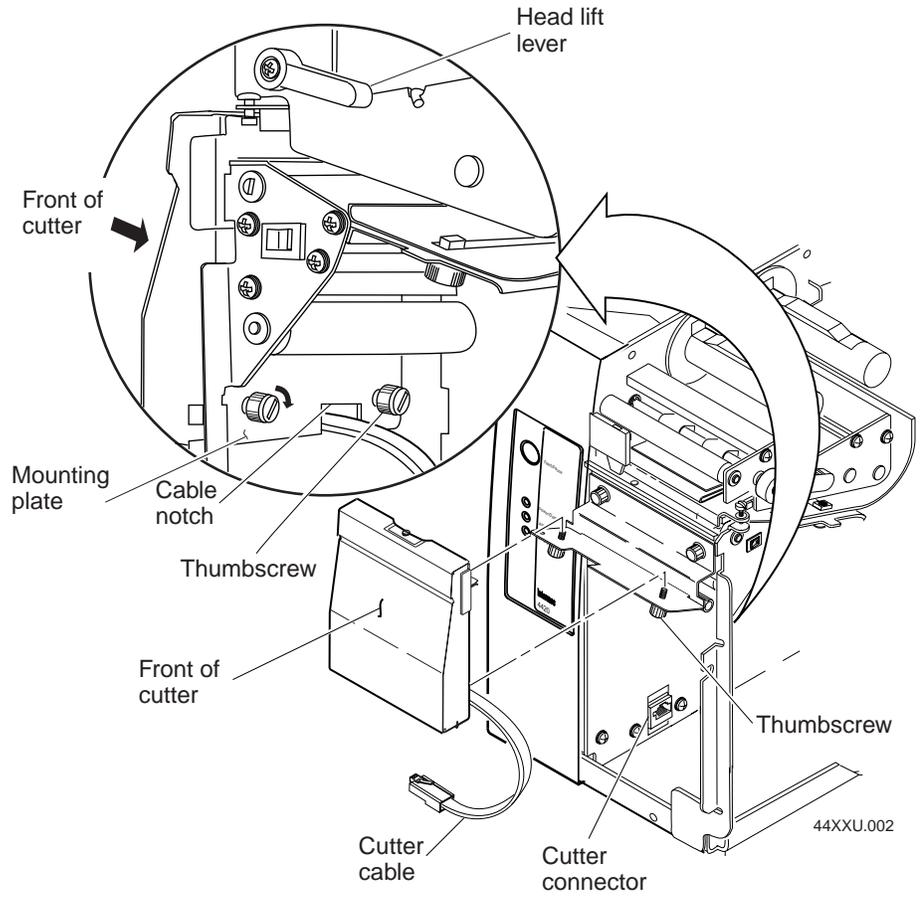
1. Turn off the printer.

2. Unplug the printer power supply cord.

3. Remove the media cover.

   A. Pull the bottom of the media cover away from the base of the printer.

   B. Lift the front of the media cover upward to release it from the printer frame.

   C. Lift the media cover away from the top of the printer.


44XXU.001
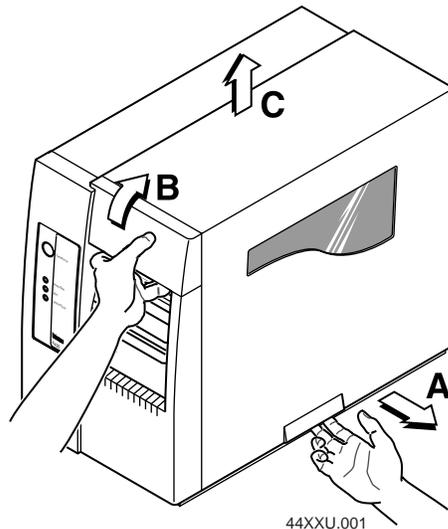
4. Turn the head lift lever clockwise and pull the media back to the printhead.

5. Push down on the mounting plate below the hinge and hold it down with the cutter pressed against the mounting plate.

6. Using the thumbscrews on the mounting plate, attach the cutter to the mounting plate. Make sure the cutter cable goes through the notch in the mounting plate.

Attaching the Cutter to the Mounting Plate

Head lift lever

Front of cutter

Mounting plate

Cable notch

Thumbscrew

Front of cutter

Thumbscrew

Cutter cable

Cutter connector

44XXU.002

7. Plug the cutter cable into the cutter connector at the base of the inside wall of the printer.

Cutter cable

Cutter connector

44XXU.003

5
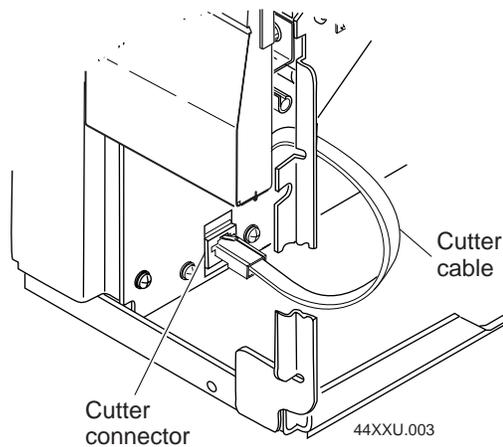
8. Feed the media through the cutter. The media should extend out past the opening in the cutter cover.

44XXU.004
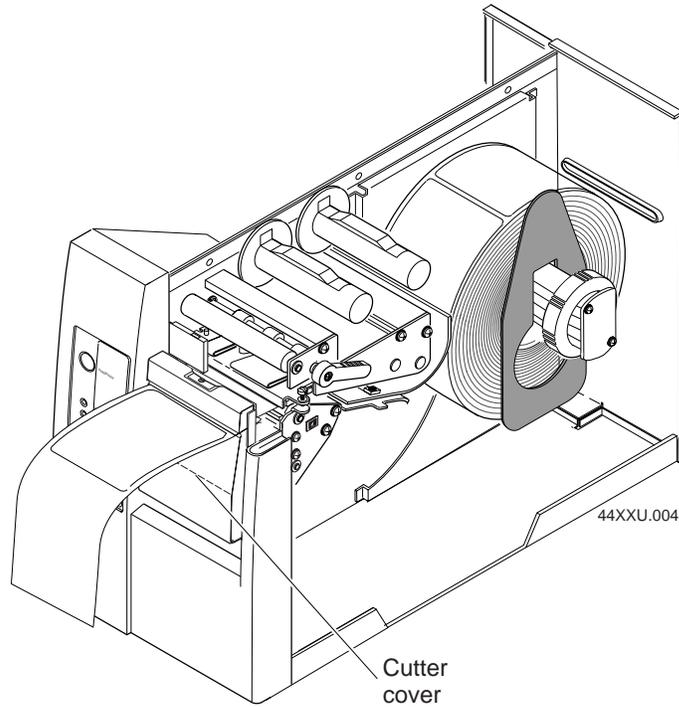
Cutter
cover

9. Turn the head lift lever counterclockwise to secure the printhead.

10. Replace the media cover.

11. Plug in the printer power supply cord.

12. Turn on the printer.

Enabling the Cutter

The following instructions use PrintSet to enable the cutter, but you can also use the IPL to enable the cutter. For help, see the *IPL Programming Reference Manual*.

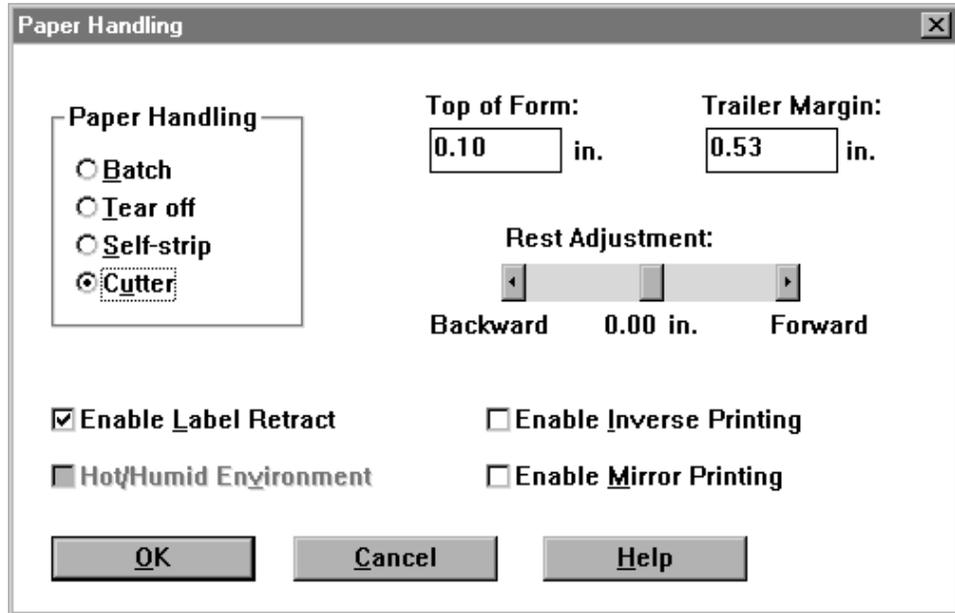1. Start PrintSet on your PC.

Note: Under the Printer Select menu, check that PrintSet is set up for your printer configuration (3400, 4420, or 4440). To customize the configuration for your printer, see the Help menu.

2. Click the Paper Handling button.

3. From the Paper Handling dialog box, select Cutter.

4. Choose OK.

   Note: If you want to change other configuration settings, you should do so before going to Step 5. For help changing the configuration, see the Help menu.

5. Choose the Send Command button.

   A message box appears asking if you want to overwrite the current printer settings. Choose send to enable the cutter with either the default printer configuration or the configuration you have created.

6. Exit PrintSet.

Note: To disable the cutter, use this procedure but deselect Cutter at Step 3.

Cleaning the Cutter

It is important that you routinely clean the cutter to keep it in excellent working condition. If you are cutting through adhesive-backed media, you should clean the cutter after every 10,000 cuts. To see the number of cuts made, print out a hardware configuration test label as described in your printer user's manual. The information following "Labels Cut" indicates how many labels have been cut since the cutter was installed. Use this number to determine when to clean the cutter.

If you are not using adhesive-backed media, you should clean the cutter when it no longer cuts precisely.

Warning
Use extreme caution when cleaning the cutter to avoid cutting yourself.

Avertissement
*Lors du nettoyage de la barre coupante, prenez bien soin de ne pas vous couper.*

To clean the cutter blade and paper guide

1. Turn off the printer.
2. Unplug the printer power supply cord and the cutter cable.
3. Turn the head lift lever clockwise and back the media out of the cutter.
4. Using a straight-slot screwdriver, loosen the screw on the top of the cutter and swing the cutter cover down.

44XXU.005

Cutter cover
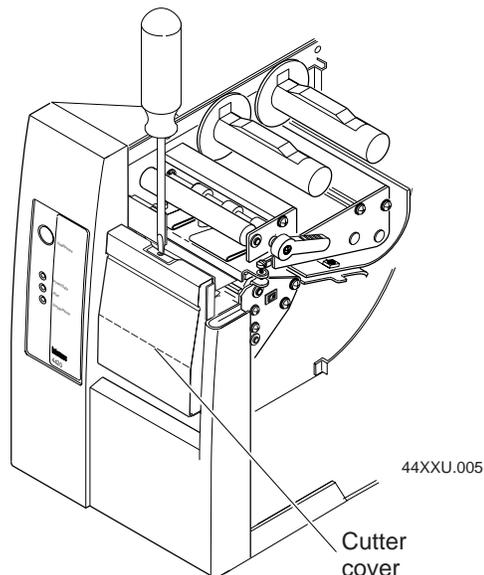
5. Push down on the tab so that the cutter blade swings forward.
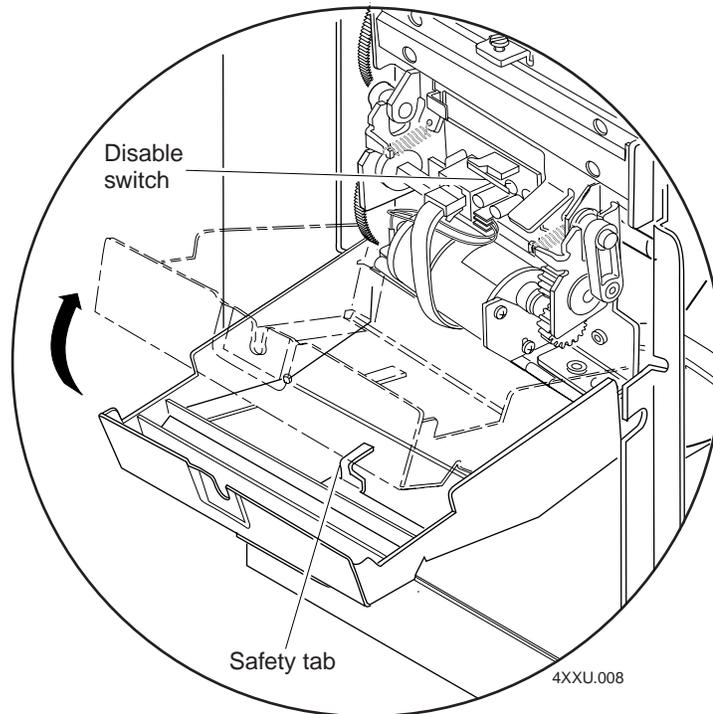
Cutter
blade

Tab

44XXU.006
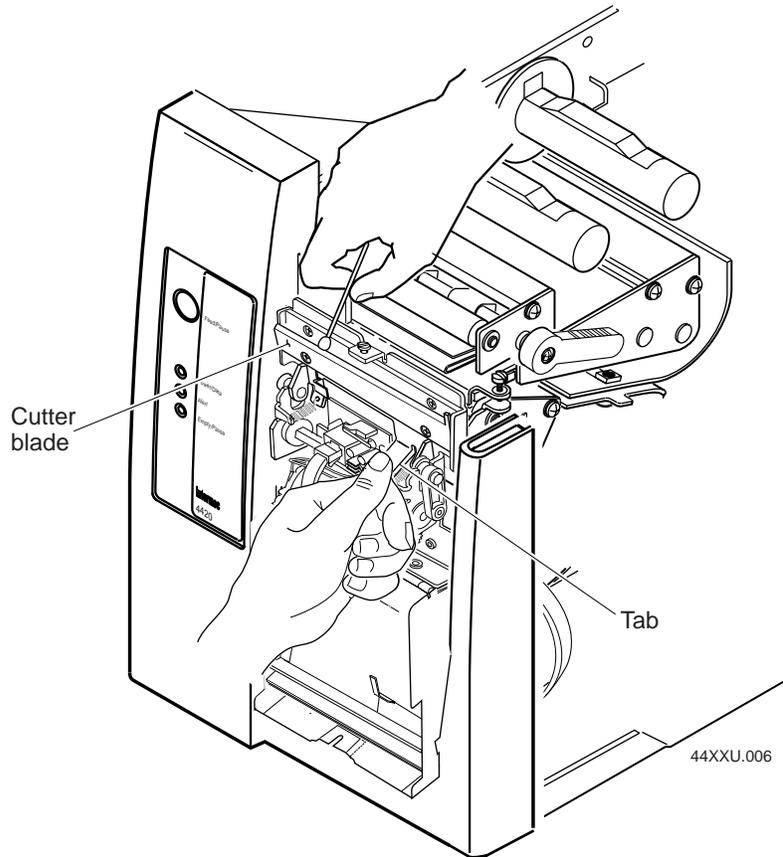
6. With a cotton swab moistened with alcohol, clean the blade.

   Note: Do not clean or get alcohol on the lubricated portions of the cutter.

7. Swing the blade up.

8. Remove any dust or media debris from inside the cutter.

9. Lift the cutter cover up. When you close the cutter cover, you should hear a soft click. If you do not hear a click, swing the cutter cover down and gently pull the disable switch away from the cutter. The disable switch must touch the safety tab on the cutter cover for the cutter to operate.

Disable switch

Safety tab

4XXU.008

10. With the cutter cover upright, tighten the screw on top of the cutter.

11. Pull out on the top of the cutter and swing the cutter down.

12. Clean the paper guide with a cotton swab moistened with alcohol.

Paper
guide

44XXU.007
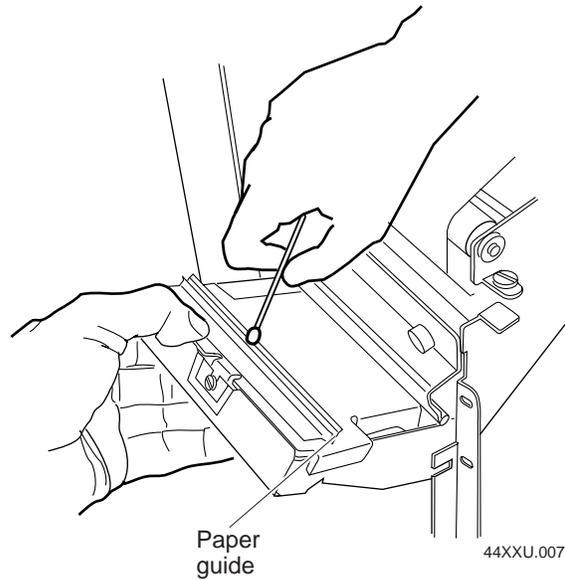
13. Swing the cutter up.
14. Feed the media through the cutter. The media should extend out past the opening in the cutter cover.
15. Turn the head lift lever counterclockwise to secure the printhead.
16. Plug in the printer power supply cord and the cutter cable.
17. Turn on the printer.

Troubleshooting

This section describes some possible problems and solutions. If these solutions do not solve your problem, try the troubleshooting solutions in your printer user's manual or call your local Intermec service technician.

Problem	Solution
The cutter does not cut cleanly or the cut end is no longer straight.	Ensure that the cutter is attached properly and that the media is tracking properly.
	Clean the cutter.
The cutter is jammed.	If the media is not feeding properly into the cutter or stacking up at the cutter output, check the paper tracking.
	Clean the cutter.
	Determine whether the media is too limp or distorted to track properly through the cutter.
The cutter is not cutting.	Ensure that the cutter cable is connected.
	Ensure that the cutter cover is fully closed and the disable switch contacts the safety tab on the cutter cover.
	Use PrintSet to enable the cutter. If the cutter still does not cut, make sure that your printer is communicating with PrintSet. For help, see the PrintSet online help.
The label cut length is incorrect.	Make sure the cutter is in the upright position against the printer.
	Ensure that the media is not binding in the media pathway.
	Ensure that the printer edge guides are properly positioned.
	Check the label rest point setting. For help, see the PrintSet online help.
Media has bent edges after the cut.	Check media tracking or try a different kind of media.

Cutter Specifications

Rating	1,000,000 cuts at 0.005-inch (0.012 mm) paper thickness 500,000 cuts at 0.010-inch (0.025 mm) paper thickness
Cutting Method	Guillotine-type blade
Mounting	Attaches to the 3400C, 4420, or 4440 printer. Adds 0.5 inch (13 mm) to the printer's length.
Media Type	All types except pressure-sensitive adhesive, polyester, polyethylene, Valeron tag, or Kimdura. Kimdura is light weight and may produce a static charge causing feeding and stacking problems.
Maximum Media Thickness	0.010 inch (0.25 mm)
Minimum Liner Weight	40 lb (18.16 kg) liner
Minimum Media Width	0.75 inch (19 mm)
Maximum Media Width	4.5 inches (115 mm)
Minimum Cut Length	1.0 inch (25.4 mm)

Note: Environmental conditions such as heat and humidity can affect whether a media type will cut or not.