

## **IJ-6000 Ink-Jet Transaction Printer**

### **Flash Programming Guide**

## **Addmaster Corporation**

Address: 225 East Huntington Drive  
Monrovia, CA 91016

Web: [www.addmaster.com](http://www.addmaster.com)  
Phone: (626) 358-2395  
FAX: (626) 358-2784

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lj6isp.pdf (PDF)

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## **1. Overview**

The IJ-6000 Ink-Jet Printer uses “Flash” memory for storage. This type of memory is re-programmable and allow for a variety of customization. Typically, this customization will be accomplished by the reseller and not by the end-user. Re-programming the printer requires the use of a Host PC and a serial RS-232 connection. The process of re-programming is called “Downloading.”

The following items may be downloaded into the IJ-6000 Printer:

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<i>Item</i>	<i>Notes</i>
Firmware	The printer software that controls its operation and printer emulation. Typically only a reseller would download firmware.
Fonts / Code Pages	The printer can have its entire font bit-mappings downloaded. This is how different code-pages are supported by the IJ-9000.
Logo	The printer supports a Logo, which is a user customizable bit image. This image can be printed via a short software command.

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## **2. Downloading Notes**

The procedures for downloading each item are given in subsequent sections. All the procedures are similar. The procedures may be performed independently. The only dependent relationship is that Downloading Firmware will reset and clear out any previously resident Logo.

Downloading procedures and programs for accomplishing this are provided. If this functionality is to be built into another application, please study the batch files carefully and replicate as closely as possible.

For other supported versions, please contact the factory.

### 3. Downloading Firmware

#### Required Components:

<i>Component</i>	<i>Items Required</i>	<i>Notes</i>
Download Program	IJ6ISP.EXE	Program file
Printer Firmware	86484-nn.mmm	nn is version mmm is revision
Host Platform	PC with available COM1:	Uses COM1 for RS232 comm.
Host OS	MS-DOS, Win95/98/NT/2K WinXP	

#### Downloading Procedure:

<i>Step</i>	<i>Procedure</i>	<i>Notes</i>
1.	<b>Prepare PC.</b> <ul style="list-style-type: none"> <li>• Load all files to hard-drive.</li> <li>• Open MS-DOS command window.</li> </ul>	
2.	<b>Prepare Printer.</b> <ul style="list-style-type: none"> <li>• Cable printer to PC's COM1: port.</li> <li>• Turn printer off.</li> </ul>	
3.	<b>Put Printer into Downloading Mode.</b> <ul style="list-style-type: none"> <li>• Turn printer power</li> <li>• Set DIP Switch #1 to ON.</li> <li>• Turn printer on.</li> </ul>	When successful, all printer LED indicators will flash. Don't go further until flashing LED's are shown.
4.	<b>Execute Download Program.</b> <ul style="list-style-type: none"> <li>• C:&gt; ij6isp <i>filename</i></li> <li>• Check any prompts given by program.</li> <li>• Hit Enter when ready to begin.</li> </ul>	<i>filename</i> is the file containing the firmware to be downloaded.  While downloading, all printer LED indicators are ON continuously.
5.	<b>Wait for Download completion.</b>	When downloading is complete and successful, all printer LED's will flash.
6.	<b>Execute any additional downloading.</b> <ul style="list-style-type: none"> <li>• Step #4 can be repeated if necessary.</li> <li>• Fonts can be downloaded at this time.</li> <li>• Logos can be downloaded at this time.</li> </ul>	Unit returns to Downloading mode for additional downloading.
7.	<b>Exit Downloading Mode.</b> <ul style="list-style-type: none"> <li>• Turn power off.</li> <li>• Set DIP Switch #1 to OFF.</li> </ul>	
8.	<b>Test Download results.</b> <ul style="list-style-type: none"> <li>• Perform printer self-test.</li> <li>• Verify version and revision numbers.</li> </ul>	

## 4. Downloading Fonts & Code Pages

### Required Components:

<i>Component</i>	<i>Items Required</i>	<i>Notes</i>
Download Program	IJ6ISP.EXE	Program file
Printer Font	ljft_nnn.mmm	nn is Code Page mmm is revision or .dat
Host Platform	PC with available COM1:	Uses COM1 for RS232 comm.
Host OS	MS-DOS, Win95/98/NT/2K/XP	

### Downloading Procedure:

<i>Step</i>	<i>Procedure</i>	<i>Notes</i>
1.	<b>Prepare PC.</b> <ul style="list-style-type: none"> <li>Load all files to hard-drive.</li> <li>Open MS-DOS command window.</li> </ul>	
2.	<b>Prepare Printer.</b> <ul style="list-style-type: none"> <li>Cable printer to PC's COM1: port.</li> <li>Turn printer off.</li> </ul>	
3.	<b>Put Printer into Downloading Mode.</b> <ul style="list-style-type: none"> <li>Turn printer power</li> <li>Set DIP Switch #1 to ON.</li> <li>Turn printer on.</li> </ul>	When successful, all printer LED indicators will flash. Don't go further until flashing LED's are shown.
4.	<b>Execute Download Program.</b> <ul style="list-style-type: none"> <li>C:&gt; ij6isp <i>filename</i></li> <li>Check any prompts given by program.</li> <li>Hit Enter when ready to begin.</li> </ul>	<i>filename</i> is the file containing the font to be downloaded.  While downloading, all printer LED indicators are ON continuously.
5.	<b>Wait for Download completion.</b>	When downloading is complete and successful, all printer LED's will flash.
6.	<b>Execute any additional downloading.</b> <ul style="list-style-type: none"> <li>Step #4 can be repeated if necessary.</li> <li>Firmware can be downloaded at this time.</li> <li>Logos can be downloaded at this time.</li> </ul>	Unit returns to Downloading mode for additional downloading.
7.	<b>Exit Downloading Mode.</b> <ul style="list-style-type: none"> <li>Turn power off.</li> <li>Set DIP Switch #1 to OFF.</li> </ul>	
8.	<b>Test Download results.</b> <ul style="list-style-type: none"> <li>Perform printer self-test.</li> <li>Verify version and revision numbers.</li> </ul>	

## 5. Downloading Logos

### Required Components:

<i>Component</i>	<i>Items Required</i>	<i>Notes</i>
Download Program	IJ6ISP.EXE	Program file
Logo Image	Image.obj	Image in binary bit image form.
Host Platform	PC with available COM1:	Uses COM1 for RS232 comm.
Host OS	MS-DOS, Win95/98/NT	

### Downloading Procedure:

<i>Step</i>	<i>Procedure</i>	<i>Notes</i>
1.	<b>Prepare PC.</b> <ul style="list-style-type: none"> <li>Load all files to hard-drive.</li> <li>Open MS-DOS command window.</li> </ul>	
2.	<b>Prepare Printer.</b> <ul style="list-style-type: none"> <li>Cable printer to PC's COM1: port.</li> <li>Turn printer off.</li> </ul>	
3.	<b>Put Printer into Downloading Mode.</b> <ul style="list-style-type: none"> <li>Turn printer power</li> <li>Set DIP Switch #1 to ON.</li> <li>Turn printer on.</li> </ul>	When successful, all printer LED indicators will flash. Don't go further until flashing LED's are shown.
4.	<b>Execute Download Program.</b> <ul style="list-style-type: none"> <li>C:&gt; dllogo <i>filename</i></li> <li>Check any prompts given by program.</li> <li>Hit Enter when ready to begin.</li> </ul>	<i>filename</i> is the file containing the firmware to be downloaded. While downloading, all printer LED indicators are ON continuously.
5.	<b>Wait for Download completion.</b>	When downloading is complete and successful, all printer LED's will flash.
6.	<b>Execute any additional downloading.</b> <ul style="list-style-type: none"> <li>Step #4 can be repeated if necessary.</li> <li>Firmware can be downloaded at this time.</li> <li>Fonts can be downloaded at this time.</li> </ul>	Unit returns to Downloading mode for additional downloading.
7.	<b>Exit Downloading Mode.</b> <ul style="list-style-type: none"> <li>Turn power off.</li> <li>Set DIP Switch #1 to OFF.</li> </ul>	
8.	<b>Test Download results.</b> <ul style="list-style-type: none"> <li>Perform printer self-test.</li> <li>Verify version and revision numbers.</li> </ul>	

## 6. Document Change History

<b>Rev.</b>	<b>Date:</b>	<b>Change:</b>
1.	01-29-01	Initial release. From IJ9load.doc
1.1	10-05-05	File name changed to IJ6ISP.exe