

IOLINE™



Quick Start Guide



IOLINE FJ PRINTERS

USER NOTICE

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If you require assistance with an Ioline product, your local Ioline dealer or authorized service center is ready to help. Support information is also available 24/7 on the Ioline Web site—or you may contact Ioline directly:

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The Ioline FJ printer has many fast moving components. Please read and follow these safety guidelines before beginning operation of the printer:

- **Do not try to repair the machine without factory authorization.** Only qualified service personnel should attempt any disassembly or access to internal components. If external mechanical adjustments are necessary, turn off the printer and disconnect it from all power sources (both the computer and the wall outlet).
- **Be careful with hair, jewelry, or loose clothing near the printer.** They can become caught in the mechanical parts.
- **Never attempt to move the carriage by hand when the power is on.** Always use the **Arrow** keys to move the carriage. To park the carriage safely in the **Service Station** and protect the print cartridges, press the **Clean** button.
- **Keep hands away from the carriage when the printer is in operation.** The carriage will automatically move to touch the left end plate then back to the right end (the **Service Station** position) when the power is turned on.
- **Never insert hands or other objects into the Service Station area on the right side of the printer.** The carriage occasionally enters this area without warning and could collide with an obstruction, potentially causing and injury.
- **Be careful when moving or lifting the printer.** Moving the printer requires at least 2 people. To avoid injury to your fingers, do not lift the printer by the end plates. Hold the bottom surfaces of the end covers to lift or move it. See **Figure 1**.
- **Keep fingers away from the drive shaft when the printer is in operation. Serious injury could result.**



Figure 1. Hold the bottom surfaces of the end covers to avoid injury to your fingers. (See also **Figure 9**.)

KEY

- | | |
|-------------------------------|-------------------------|
| A. Left End Cover | F. Take-up Shaft |
| B. Right End Cover | G. Feed Shaft |
| C. Take-up Motor | H. Dancer Bar |
| D. Stand Leveling Foot | I. Stand |
| E. Feed Roll | |

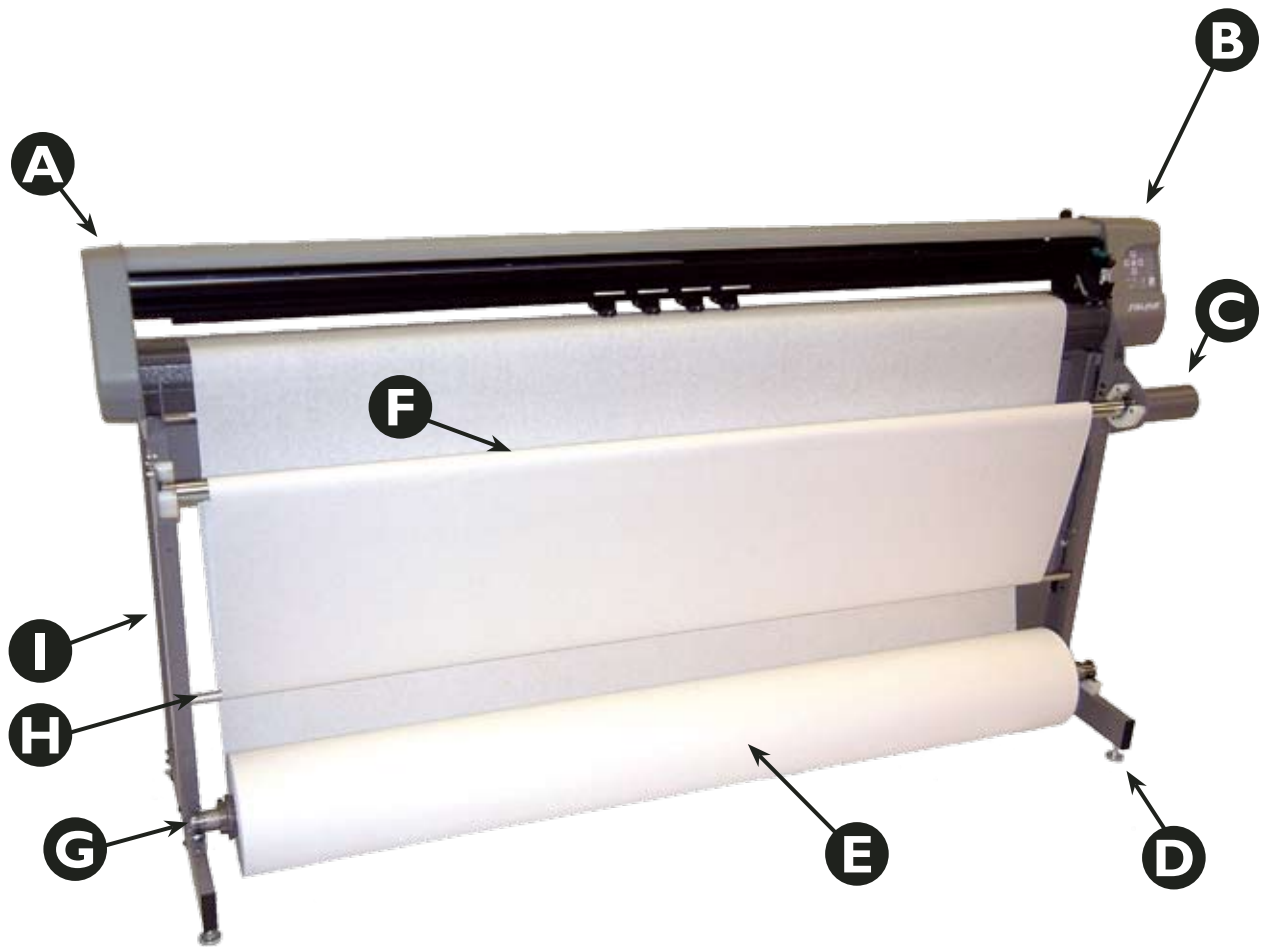


Figure 2. The Ioline FJ Printer Front View.

VISUAL REFERENCE GUIDE

KEY

- J.** Take-up Motor Cable
- K.** Take-up Motor Outlet
- L.** Power Switch
- M.** Serial & USB Ports

- N.** Paper Out Sensor
 - O.** Platen Leveling Pad
 - P.** Cross-member*
- * The FJ-eX has two cross-members

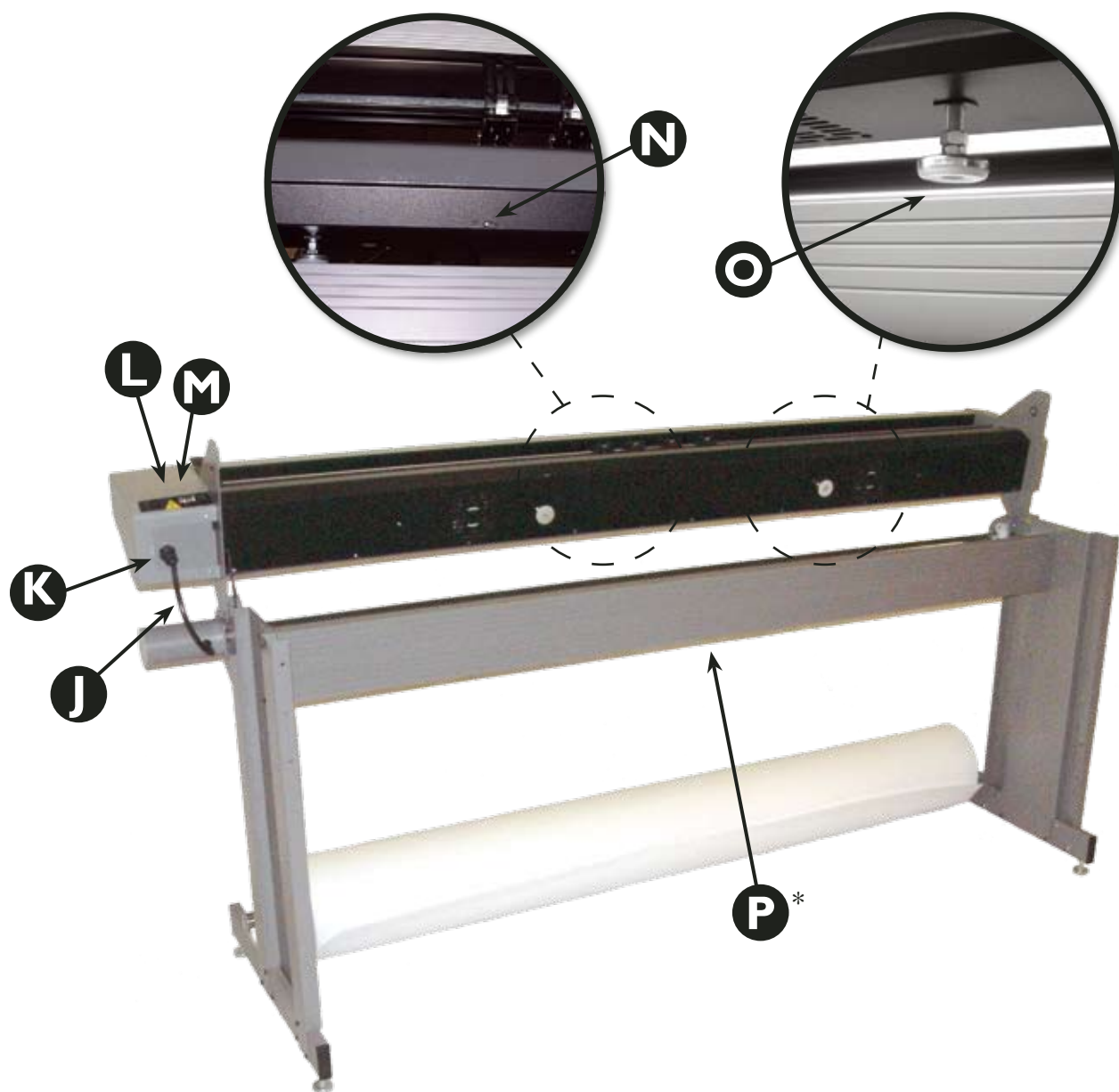
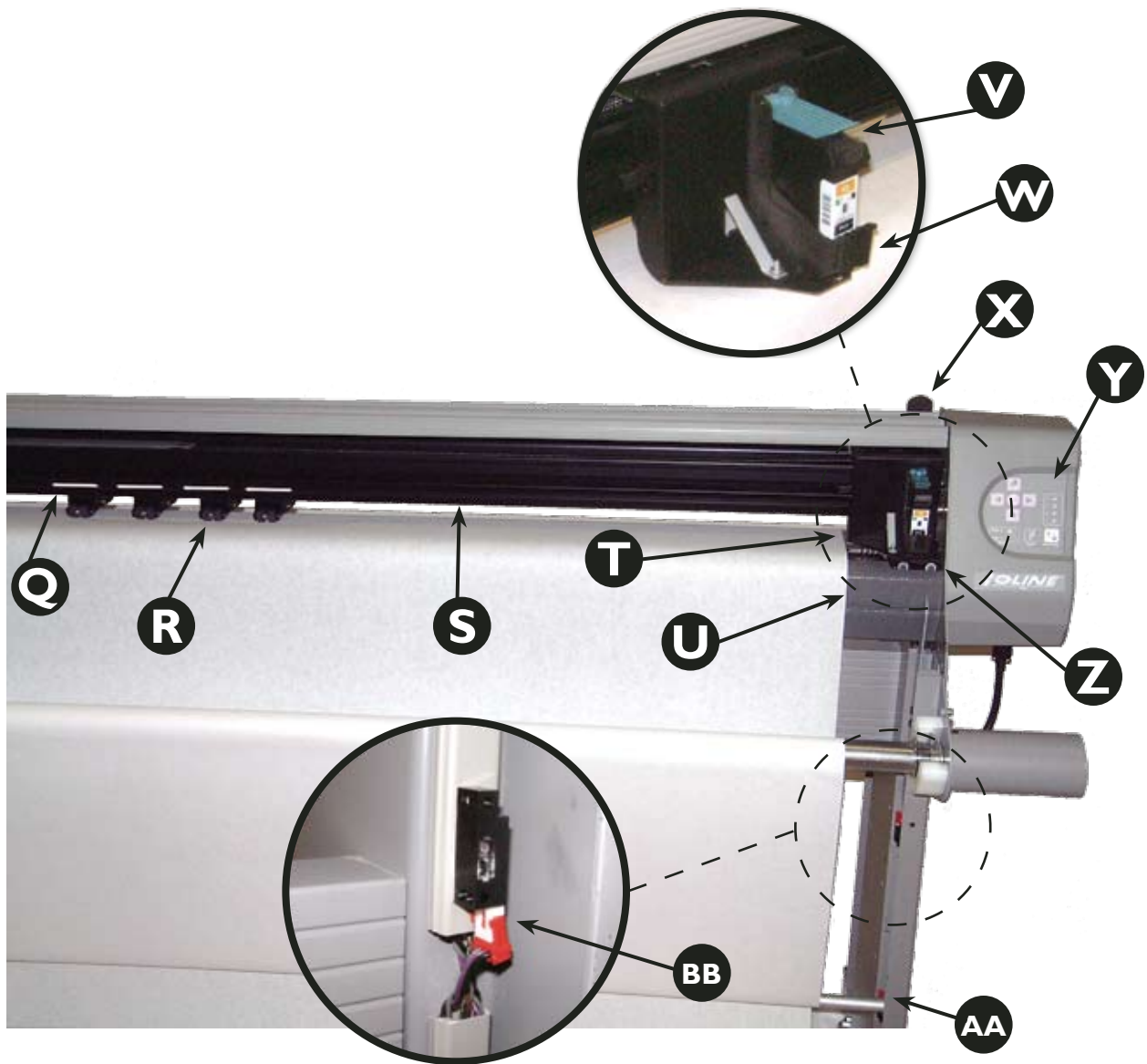


Figure 3. The Ioline FJ Printer Rear View (head tilted in maintenance position.)

KEY

- | | |
|-------------------------------------|-------------------------------|
| Q. Drive Shaft Marker | W. Ink Cartridge Stall |
| R. Pinchwheel | X. Pinchwheel Lever |
| S. Traverse or Carriage Rail | Y. Keypad |
| T. Carriage Assembly | Z. Service Station |
| U. Platen | AA. Bottom Sensor |
| V. Ink Cartridge Latch | BB. Top Sensor |



Assembly

This *Quick Start Guide* shows how to assemble and set up the Ioline FJ printer. Consult the *FJ User Guide* on the CD-ROM for more detailed information about installation and operation. Use the provided Adobe® Acrobat® viewer to read and print the user guide if necessary.

Unpacking the FJ

Remove the printer, stand parts, and **Accessory Kit** from the box and check the packing list. Always lift the printer with two people, one person holding the bottom of the end covers. (See *Step 3* for more details.) Save all packing materials.

Required tools

- Hex (Allen) wrench and grease (included in the **Accessory Kit**)
- 1/2-in and 9/16-in open ended or adjustable wrench
- A level
- Rubber headed mallet



Note

Save all packing materials.

CAUTION



The FJ printer is heavy and could cause injury if it falls. A minimum of two people are required to safely unpack the printer and attach it to the stand.

**Note**

The cross-member is reversible and can be attached upside down and from either side.

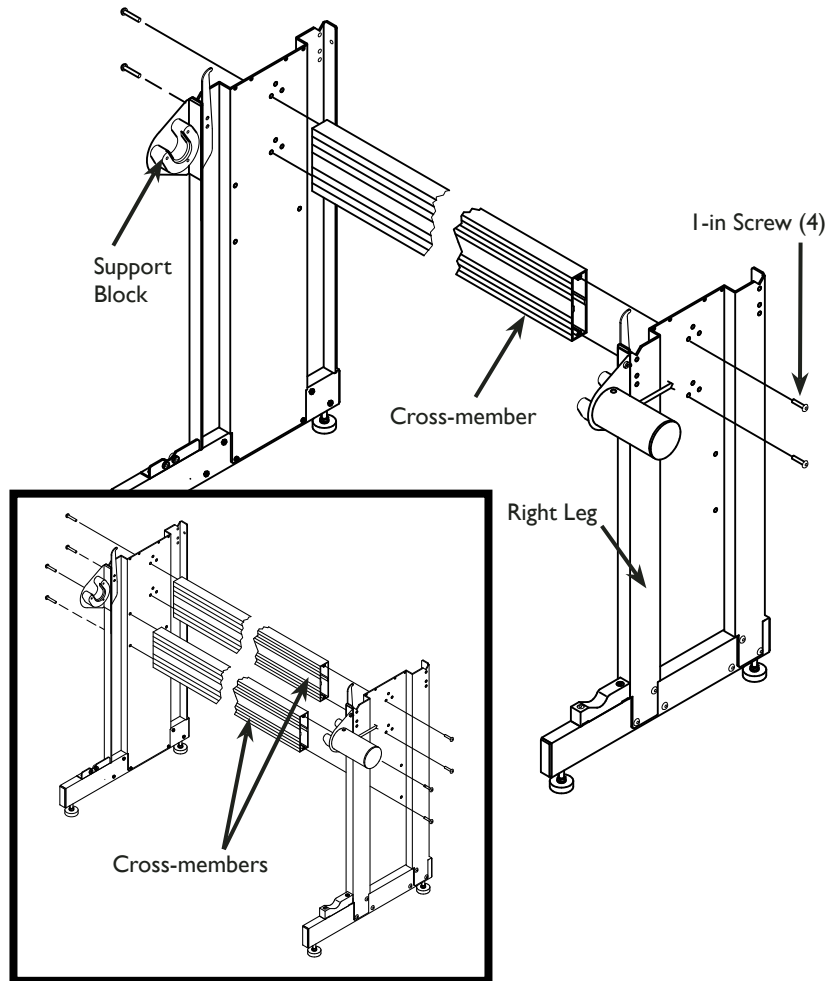


Figure 5. Proper placement of the cross-member on FJ model (above) and two cross-members on the FJ-eX model (inset in box).

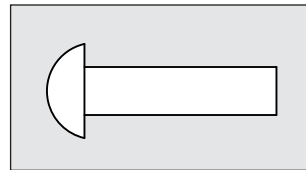


Figure 6. 1-in screw—at actual size.

CAUTION

Do not hold the printer head by the bottom edge of the end plates when attaching it to the stand. Fingers and hands might get pinched between the end plates and stand legs. Hold the bottom of the end covers when handling the printer.

Step 1: Assemble the Stand

1. Examine the diagrams showing proper placement of the cross-member in **Figures 5, 6 & 7** before proceeding with assembly.
2. Align the holes in the right leg with the threaded holes in the cross-member.
3. Insert two 1-inch socket head screws into the threaded holes. Leave them loose.

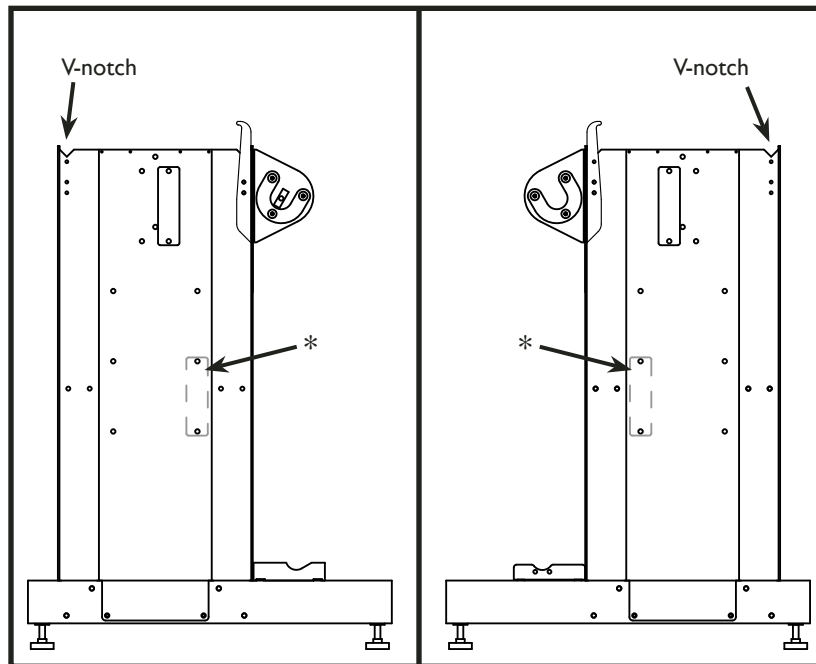


Figure 7. Cross-member position on left leg (above right) and right leg (above left).
 (* The Fj-eX's second crossmember is shown by the dashed lines.)

4. Repeat this procedure for the left leg. Make sure that the support block on the left leg is on the same side as the cross-member.
5. Repeat **Steps 1–4** to install the second cross-member on the Fj-eX model.
6. Place the stand assembly upright.
7. Tighten all four cross-member screws.

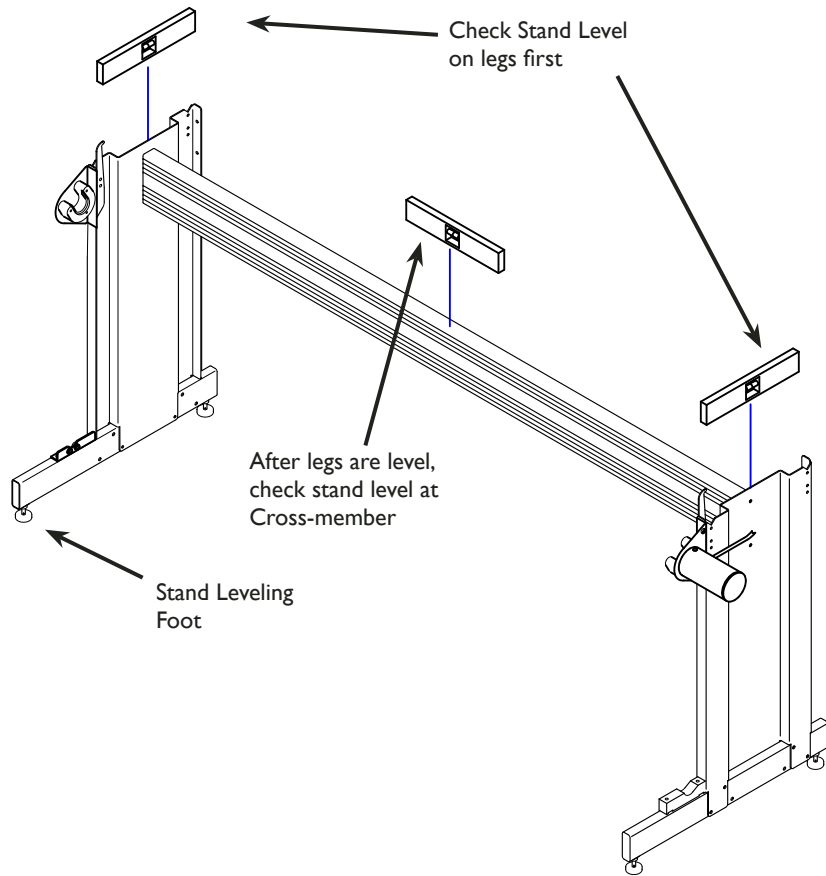


Figure 8. Placement of the level on the stand. (As shown on the FJ model.)

Step 2: Level the Stand

1. Use the wrench to loosen the $\frac{9}{16}$ -in lock nut on both of the right leg leveling feet, turning them counter-clockwise. Place a level across the top of the right stand leg. (See **Figure 8**.)
2. Turn the $\frac{1}{2}$ -in nut on each leveling foot counterclockwise to lower the foot or clockwise to raise the foot until the leg is level. Repeat this procedure for the left leg.
3. Place a level on the cross-member. Repeat the adjustment procedure as above except adjust both front and rear levelers on each leg the same amount so that the legs stay level but the cross-member moves. Adjust the threaded feet until the stand is level on the cross-member.
4. Check the level of the legs again and make small adjustments as necessary until the stand is level in both directions.
5. Tighten all of the $\frac{9}{16}$ -in lock nuts on the levelers by turning them clockwise.

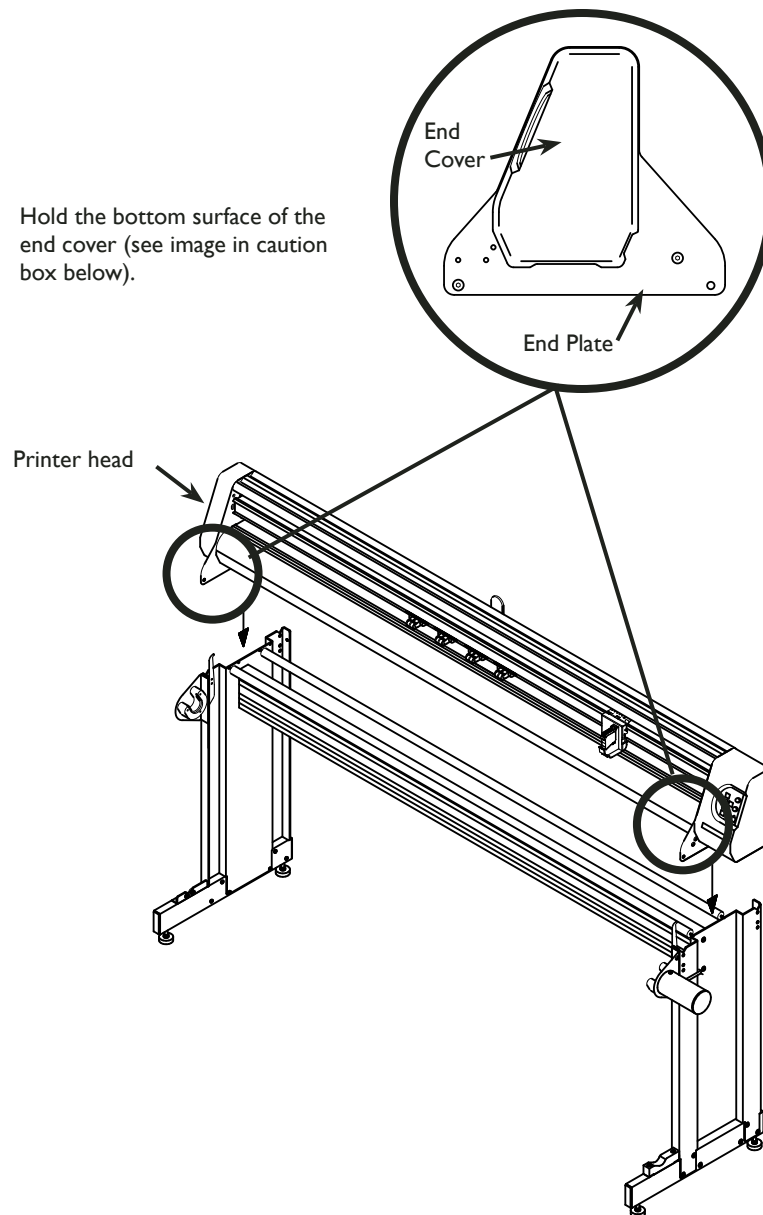


Figure 9. The end plates slide into the stand as shown above. Avoid holding the end plates when you install the printer head. (As shown on the FJ model.)

Step 3: Attach the Printer to the Stand

1. Using two people, lift the printer head onto the stand. The front (carriage side) of the printer should face the same direction as the support blocks. Make sure the pin at the rear of each endplate rests in the 'V'-shaped notch in the rear of both legs. (See *Figure 7*.)
2. Check that the holes in the endplate line up with the threaded holes in the leg. If they do not align, check to make sure that the rear alignment pin is resting in the rear notch on both legs.
3. Insert two $\frac{5}{8}$ -in button-head screws with one washer each through the holes in the front of both end plates to connect the head to the stand. Leave the screws loose (**Figure 10**).

CAUTION



Do not hold the printer chassis by the bottom edge of the end plates when attaching it to the stand. Fingers and hands might get pinched between the end plates and stand legs. Hold the bottom surface of the end covers when handling the head. (See **Figure 9**.)



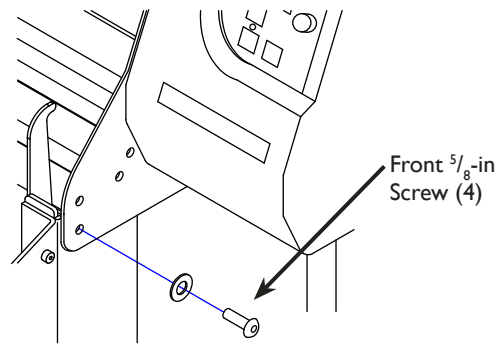


Figure 10. Loosely attach the end plates to the legs with the provided screws and washers.

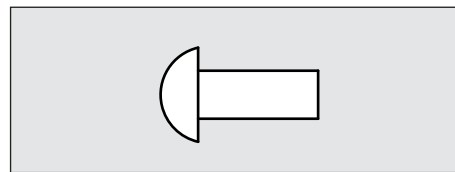


Figure 11. Front and rear $\frac{5}{8}$ -in screws—shown here at actual size.

4. Insert two $\frac{5}{8}$ -in button-head screws with one washer each through the holes in the back of both end plates to connect the head to the stand. Leave the screws loose (**Figure 12**).

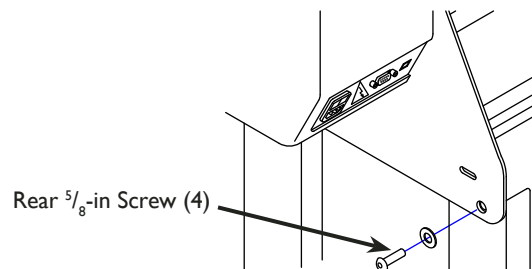


Figure 12. Loosely attach the head to the stand with the screws and washers.

5. Plug the take-up motor cable into the socket on the bottom of the right cover and rotate the locking collar until it stops (**Figure 13**). Gently pull on the cable to ensure that the plug is securely fastened.

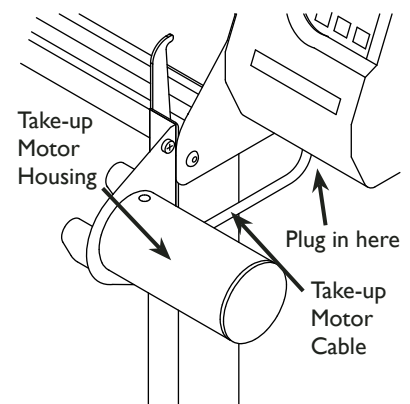


Figure 13. Plug the take-up motor cable into the printer head.

Step 4: Connect the Paper Sensor Cable

1. Find the small plug clipped to the bottom outside edge of the right endplate (**Figure 14**).
2. Pull the looped end of the cable out of the front clip so that the plug hangs free. Make sure the cable remains within the rear clip as shown in the image (**Figure 15**).
3. Route the cable through the opening between the endplate and leg so that the plug is visible from the front of the machine directly below the service station (**Figure 16 & 17**).
4. Find the female connector attached to the leg and insert the plug into it.



Figure 14.



Figure 15.



Figure 16.



Figure 17.

CAUTION



Make sure power to the machine is off before connecting the cables.

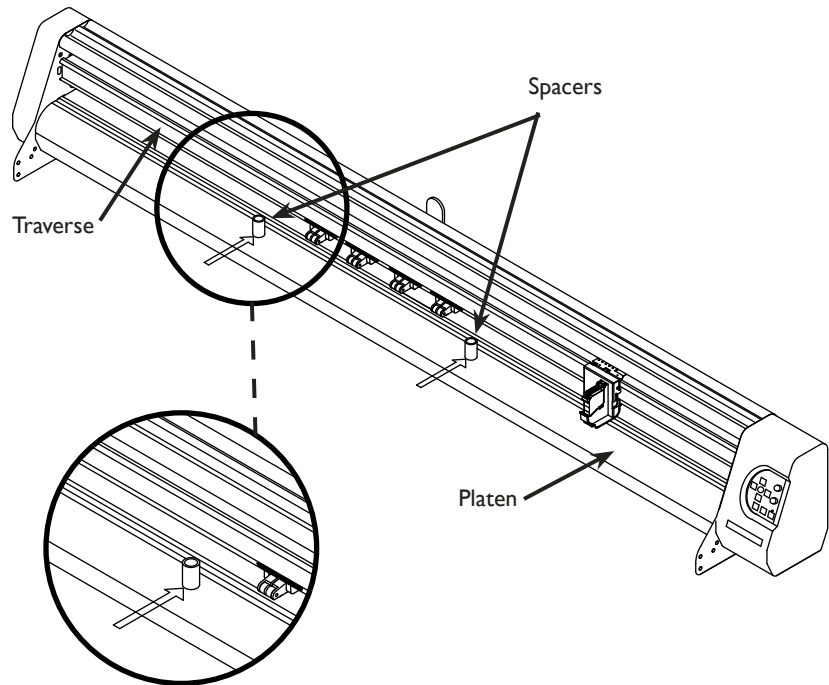


Figure 18. Stand the spacers vertically when adjusting the platen leveling pads.

Step 5: Adjusting the FJ

1. Push the pinchwheel lever back to raise the pinchwheels.
2. Position the pinchwheels as shown below making sure they are under a white drive shaft marker, then pull the pinchwheel lever forward to lower the wheels.
3. Insert the metal spacers (included in the **Accessory Kit**) between the traverse and the platen above the leveling pad. The spacers must stand vertically as shown below.

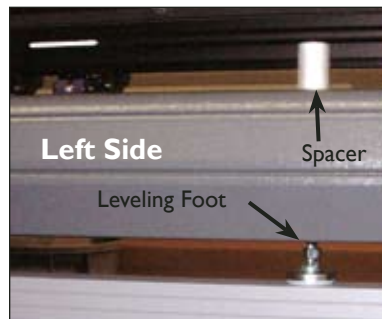


Figure 19. Spacer and leveling pad.

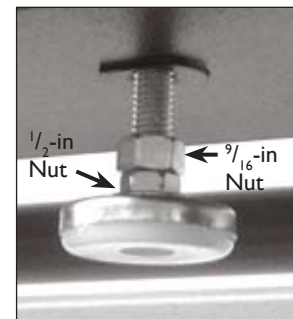


Figure 20. Platen Leveling Foot.



Figure 21. Leveling pads keep the platen level, helping to maintain paper alignment.



Figure 22. Tighten the jam nut against the bottom cover after you adjust the leveling pad.

4. Turn both the right and left leveling pads by hand until they touch the cross-member. Use a $\frac{1}{2}$ -in wrench to make one clockwise turn of the pad against the cross-member.
5. The spacers should be tight between the platen and traverse. If they are loose, turn each pad once clockwise and re-check them. Repeat this process until the spacers start to touch the traverse then stop turning.
6. Against the bottom cover, turn the $\frac{9}{16}$ - nuts counterclockwise by hand. Tighten with a wrench another $\frac{1}{4}$ -turn counterclockwise. Remove both spacer blocks.
7. Tighten the four screws that hold the end plates to the stand legs as shown in **Figure 5**. Use the supplied hex wrench.
8. Place a level on the platen so that it is parallel to and in front of the drive shaft. Make small adjustments to the threaded feet in the stand if the machine is not level. If the machine is difficult to level, check the printer for shipping damage and contact Ioline Customer Service.
9. Insert the metal spacers again to verify that the platen is the right height. Correct if necessary.

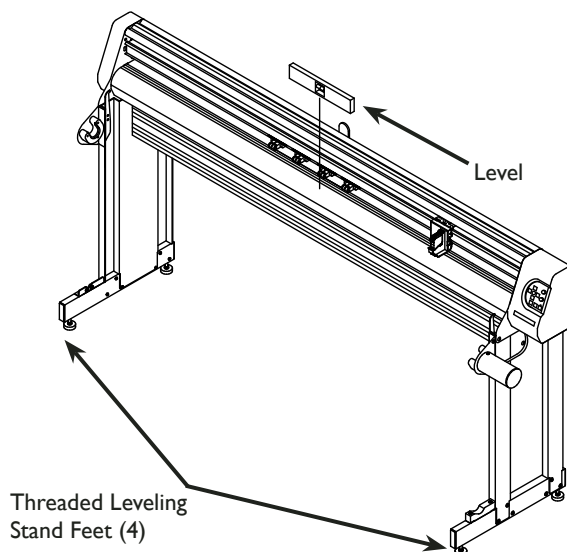


Figure 23. Use a level when adjusting the platen height. (As shown on the FJ model.)

**Note**

Note: *The FJ User Guide* contains detailed instructions for communication setup.

**Note**

On the FJ printer, off is marked with a, "0," and on with a, "1."

Step 6: Connect the Communication and Power Cables

1. Turn power off to the printer. Off is marked with a, "0," and on with a, "1."
2. Connect the supplied serial cable and power cord to the panel on the back of the right side of the printer. Lock the serial cable to the port on the printer with the thumb screws.
3. Plug the printer power cable into a wall socket or surge protector.
4. Make sure that power is off to the computer.
5. Connect the serial cable to a 9 pin-male-serial port on the back of the computer. If your computer only has a 25 pin connector, acquire a 25 pin to 9 pin serial adapter to make the connection. Tighten the thumbscrews.

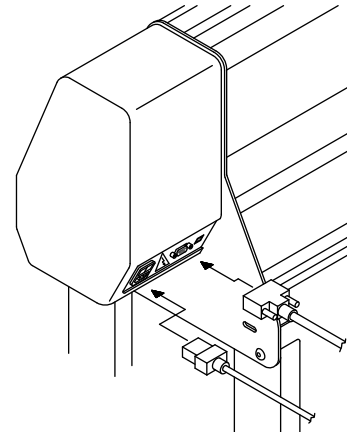


Figure 24. The serial port and power socket.

Step 7: Install the Software

1. Insert the installation CD-ROM into the computer CD-ROM drive. The install program should start automatically. If it does not, select *Run* from the *Start Menu*. Browse to the CD-ROM and double click on *iosetup.exe*. Press *OK* to start the install.
2. Install the Ioline **FlexPlot** and **Control Center** software.

**Hint**

The **Installation Disk** also includes electronic copies of the *FJ User Guide* and *FJ Quick Start Guide*. It is recommended that you install these along with Adobe Acrobat (also included on the disk) to make help easily accessible.

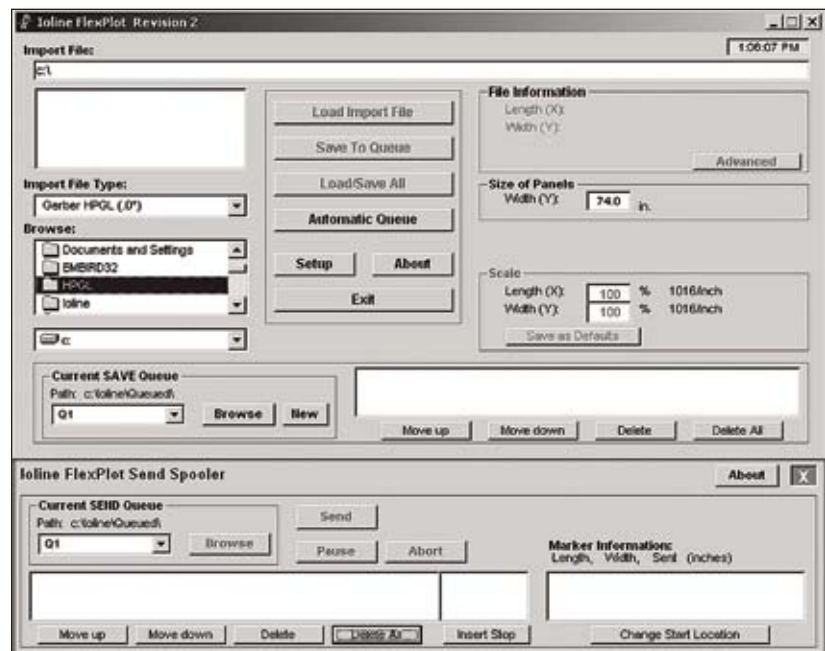


Figure 25. FlexPlot.

Paper Loading

Step 1: Loading the Feed Roll

1. Before loading a new paper roll always make sure the drive shaft is clean. See the *Routine Maintenance* section in the *FJ User Guide* for more details.
2. Place a paper hub in each end of the paper roll. Use a rubber mallet to insert the hubs.
3. Slide the feed shaft through the paper hubs and the paper roll. If a paper hub falls out, press it firmly back into the end of the paper roll and set it with a rubber mallet.

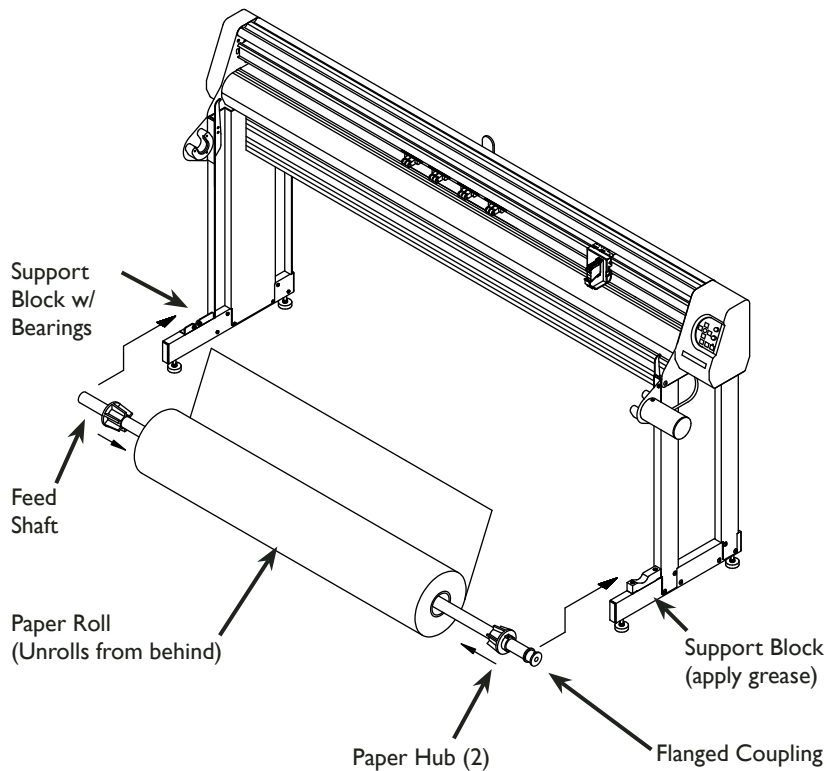


Figure 26. Loading the feed roll. (As shown on the FJ model.)

4. For paper narrower than 70-in, center the paper roll on the feed shaft. Make sure the hubs remain securely in place. For paper greater than 70-in in width, offset the paper to the left slightly to avoid covering the **Service Station** area.
5. Use the supplied hex wrench to tighten both screws on each paper hub.
6. **IMPORTANT:** Apply a light coating of grease (supplied in the **Accessory Kit**) to the right support block.
7. Lift the feed shaft and paper roll into the support blocks. Make sure the paper unrolls from behind and towards the printer.

Step 2: Loading the Take-up Roll

1. Turn on the power to the printer with the switch on the back of the right cover.
2. If the take-up shaft has printed markers on it, remove them. See *Unloading Completed Markers in the Ioline FJ Printer in the FJ User Guide* for details.
3. Use the keypad **Unroll** key to rotate the take-up key until it is oriented perpendicular to the support block opening as shown below.
4. Put the take-up shaft into the front support blocks with the flanged coupling at the right (keypad) end. Rotate the shaft until the slot in the flanged coupling is aligned with the take-up key. When the shaft slot and the key are aligned, push the take-up shaft into place until it is seated in the support block.

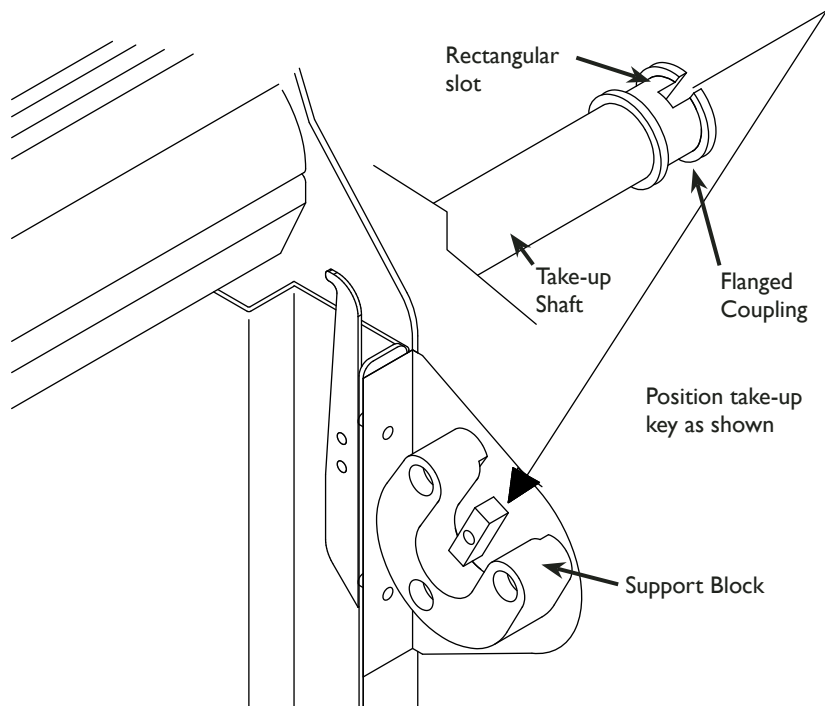


Figure 27. The slot in the flanged coupling on the take-up shaft fits into the key in the right front support block

CAUTION



Never touch the take-up key or flanged coupling while they are rotating.

Serious personal injury could result. Turn power off first.



Step 3: Feeding Paper

Figure 28 shows the proper paper paths. The left side of the diagram shows the paper after it is properly inserted and taped to the take-up shaft. The right side shows the result after the dancer bars are inserted.

1. If the pinchwheels are lowered, raise them by pushing the pinchwheel lever away from the machine.
2. Pull a long leader of paper off of the paper roll and insert it through the stand, behind the printer head, over the platen, and between the platen and pinchwheels.
3. Temporarily lock the paper in place by pulling the pinchwheel lever toward the machine to lower the pinchwheels.

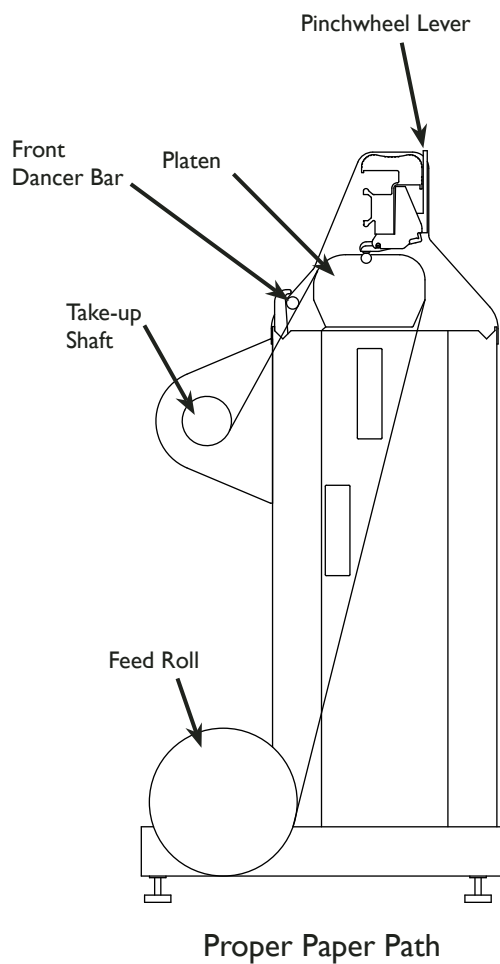


Figure 28. The correct paper feeding path on the Ioline FJ printer.



Hint

An alternate take-up method that will ease removal of markers is to slide a cardboard tube over the take-up shaft then tape paper to the tube. The cardboard tube will rotate slowly at first and may not raise the front dancer bar but will still roll up completed markers. Simply slide the tube off the take up shaft when plotting is complete.



Note

Ensure that the paper properly positioned for its width. See **Step 1** under **Paper Loading** earlier in this chapter.

Step 4: Taping Paper to the Take-Up Shaft

1. Stand in front of the machine.
2. Temporarily attach a short piece of masking tape to the center of the cover on top of the machine.
3. Grasp the front edge of the paper. Push the pinchwheel lever to raise the pinchwheels.
4. Hold the front edge of the paper with both hands and pull 20" (51 cm) of paper over the platen and under the take-up shaft (see **Step 3** for the proper paper path).
5. Apply pressure to the feed roll with a foot so that it does not turn.
6. Align the paper by gently pulling it while moving it left and right until the tension feels even. Attach the paper to the take-up shaft using the piece of tape stuck to the cover.
7. Tape the right and left ends of the paper (about 2" or 5 cm in from the edge) to the take-up shaft.



Figure 29. Do not cover the hole in the platen with paper

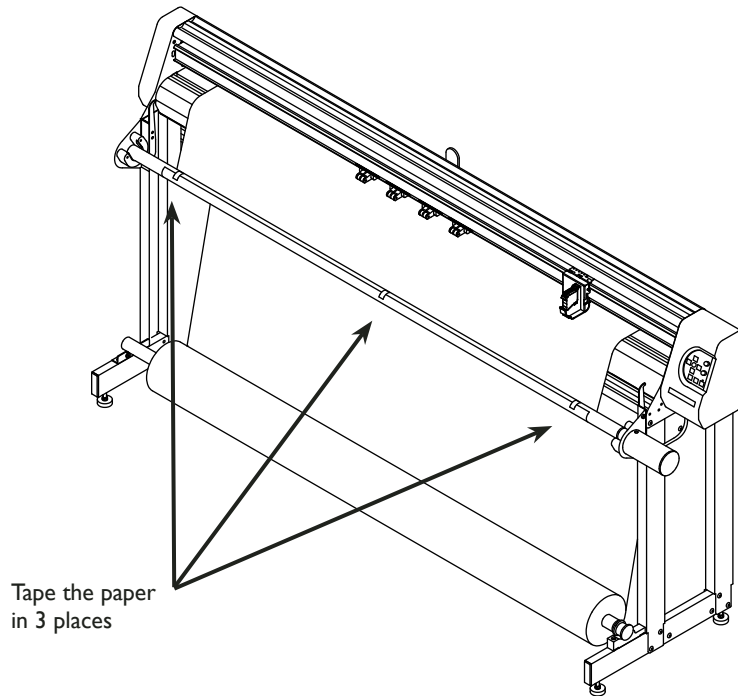


Figure 30. Taping the paper to the take-up shaft.

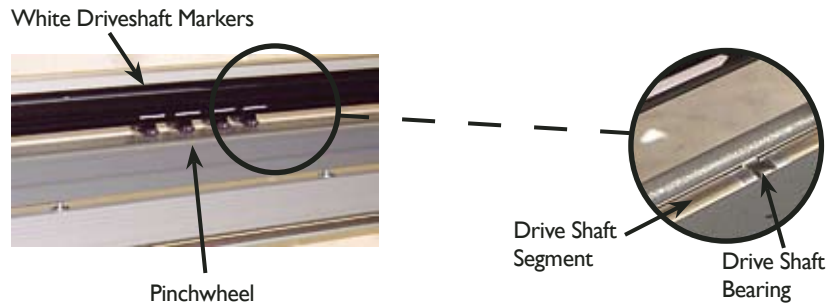


Figure 31. Positioning the pinchwheels.

Step 5: Positioning the Pinchwheels

1. Ensure that the paper is loaded as described in the previous steps and that the right paper edge does not encroach on the **Service Station** area. (See *Figure 29*.)
2. Raise the pinchwheels (if they are not up) by pushing the lever away from the machine.
3. Move the pinchwheels to the proper position. See *Figure 31*. Do not place a pinchwheel over any smooth portion of the drive shaft. Use the white markers on the carriage rail to find drive shaft segments when they are covered by paper.

Step 6: Insert the Dancer Bar

1. Lower the pinchwheels (if they are not down) by pulling the lever toward the machine.
2. Insert the front dancer bar into the front dancer bar channel.

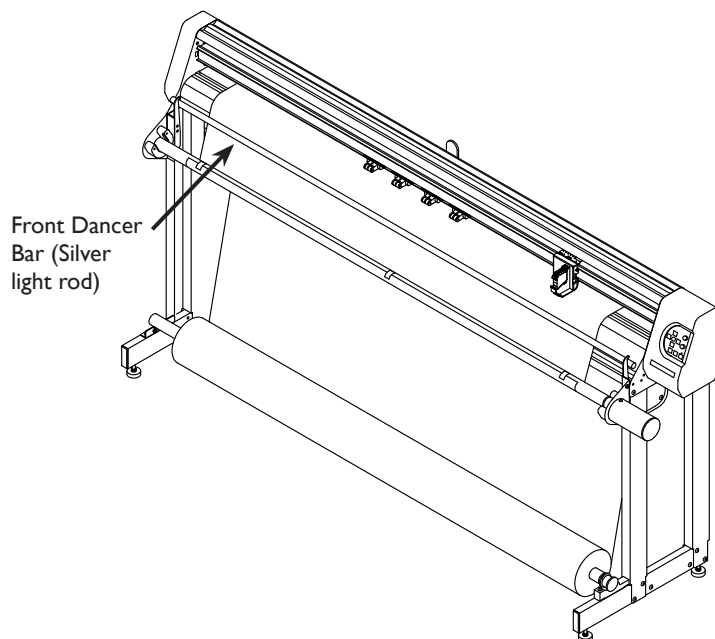


Figure 32. Inserting the dancer bar.

Preparing to Print

1. Turn on the power (if it is not already on). There is a brief pause then the carriage will move to the left end plate then return for a cleaning in the **Service Station**. After the initial start-up process is complete, the **OK** light turns red and the **Square** light turns green.
2. Use the **Left Arrow** key to move the carriage out of the **Service Station**.
3. Remove the protective strip from the bottom of the ink cartridge. Insert the included ink cartridge by lifting the latch, inserting the cartridge, then closing the latch until it locks down.
4. Press the **Left** (or **Right**) **Arrow** key to move the carriage over the paper until the small notch in the base is over the desired starting point of the marker.
5. Press the **Set Origin** key. The **OK** light will turn green. The printer is ready to print.

Test the Setup

1. Start the Software.
 - a. Close all programs that might be using serial port that the FJ is connected to.
 - b. Start the **FJ Control Center** software. A link to the program is in the *Start Menu* under *Programs>Ioline*.
 - c. A message may appear that the **Control Center** was unable to communicate with the FJ. If you see this message, click on Yes. When the program starts, open the menu *Communications>Settings*. Choose the COM port that the FJ is connected to. Leave the baud rate set at 38,400 since this is the default set at the factory.
 - d. Press the **Get Plotter Data** button to ensure the connection is established.
2. Send Test Plot File
 - a. Select *Send Plot File* from the *File Menu*.
 - b. Browse to the folder *c:\ioline\calibrate*.
 - c. Double click on the test plot file *40x8.plt* to send it to the printer.
 - d. When the printer prints the test file correctly, the machine is ready for printing makers.

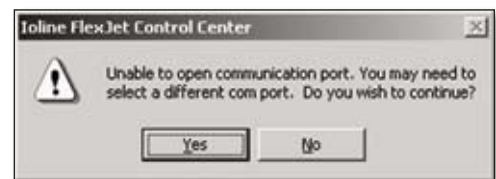


Figure 33. Communications error message.

- e. Close the **FJ Control Center**.
3. Send Markers
 - a. Start **FlexPlot** or your apparel design software.
 - b. Setup communications so that the COM port and baud rate are the same in the FJ and the software. Refer to the *FlexPlot User Guide* and *FJ User Guide* or the manual of your apparel design software for more information.
 - c. Send markers to the FJ directly from the software.

Getting Help

Refer to Troubleshooting under the *FJ User Guide* for assistance with common issues. Upon request, Ioline Customer Service also offers a more detailed publication—the *FJ Service Manual*—which contains expanded troubleshooting information.

Customer Service

Ioline Corporation is committed to providing quality service and support to our customers. If you need assistance with an Ioline product, contact your local dealer or Ioline authorized service center. You may also contact:

Ioline Customer Service Department
Monday through Friday
7:00 A.M. - 5:00 P.M. U.S. Pacific Time
Voice: 1.425.398.8282
Fax: 1.425.398.8383
support@ioline.com
www.ioline.com

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