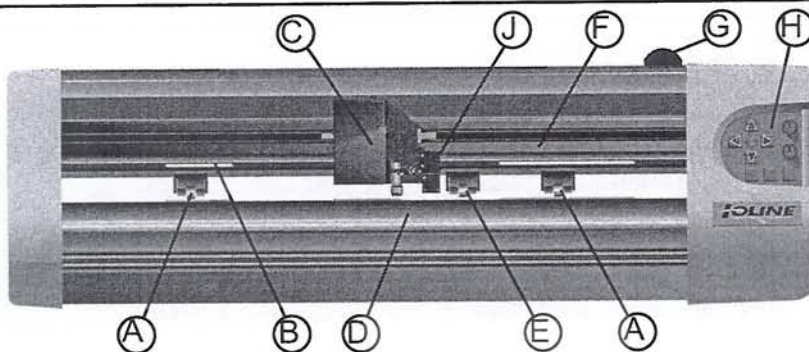This quick start guide shows how to assemble and setup Ioline I/S and Contour signcutters. Consult the user guide on the CD-ROM for more detailed information about installation and operation. The user guide may be printed from the provided Adobe® Acrobat® viewer if
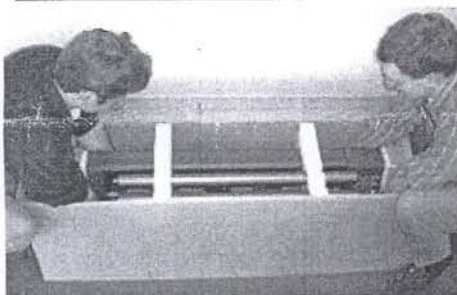
> **Caution:** *The signcutter is heavy and could cause an injury if it falls. A minimum of two people are required to safely unpack the plotter and attach it to the stand or cradle. One person should hold the machine while the screws holding it to the legs are inserted.*

A. Pinchwheel
B. Drive Shaft Marker
C. Carriage
D. Platen
E. Idler Wheel
F. Carriage Rail
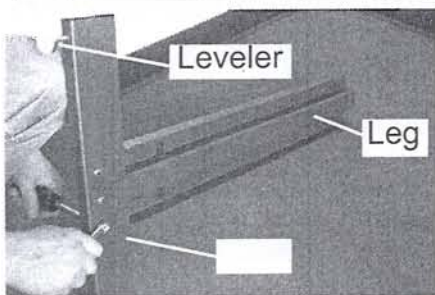G. Pinchwheel Lever
H. Keypad

Step 1 — Unpack

Remove the plotter, stand parts, and accessory kit from the box. Check the packing list. Always lift the signcutter with two people, one person at each end. Save all of the packing materials.

Tools Required for Assembly:
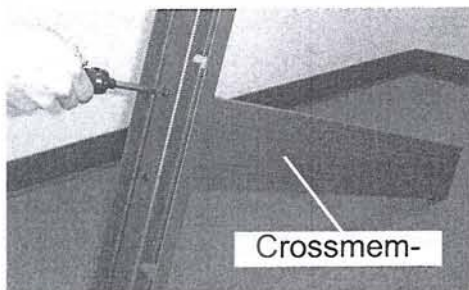Phillips screw driver and 7/16 in. wrench

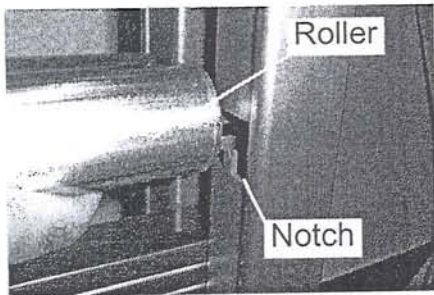## Step 2 — Assemble the Stand (optional on I/S 60)

Attach the Feet
Attach one foot to each leg using three 1.5 in. (long) Phillips screws and three 7/16 in. hex nuts. Repeat this procedure for the other leg. Screw all of the leg levelers halfway into the ends of the stand feet. Thread all four levelers in equally so that your signcutter is level and stable.

Connect the Crossmember and Legs
The crossmember is reversible and can be attached upside down and from either side. Fit the crossmember snugly into the rectangular groove in one leg. Align the holes in the leg with the threaded holes in the crossmember. Insert two 1 in. (medium) Phillips screws into the threaded holes. Leave them loose. Repeat this procedure for the other leg. Tighten all four screws.
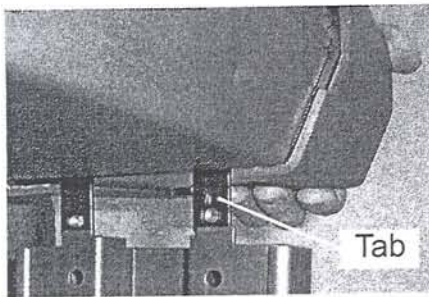
Insert the Media Rollers

Insert the pins on the end of a media roller into the notches in the front of each leg. Use the matching notch on the opposite leg so that the roller is straight. Repeat this process to insert a roller into the rear notches. The extra notches allow for different size rolls of media.
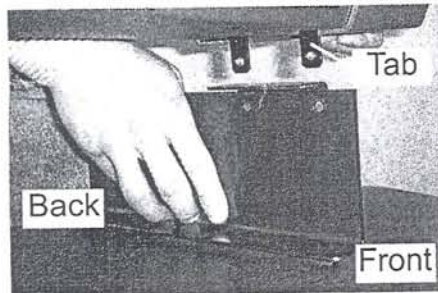
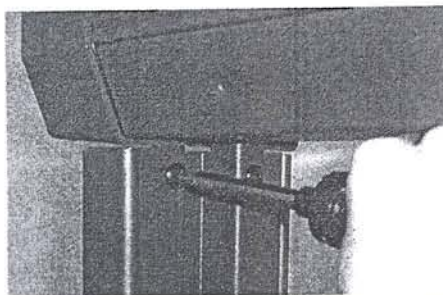## Step 3   *Attach the Signcutter to the Stand or Cradle*

Place Plotter on the Stand (optional on I/S 60)

One person should hold the plotter while the other person positions it. Slide the tabs on the bottom of the plotter inside the top of both legs. Make sure that the holes in the legs line up with the threaded holes in the
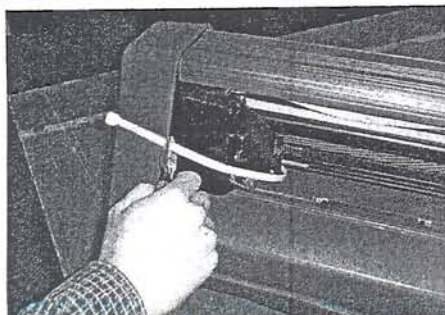
Place Plotter on the Cradle (optional on I/S 60)

One person should hold the plotter while the other person positions the signcutter. Slide the tabs on the bottom of the plotter outside the top of both cradle feet. The longer portion of the foot should extend from the back of the machine. Make sure that the holes line up

Insert the Screws

One person should hold the plotter while the other person inserts the screws to secure the signcutter to the legs or cradle feet. Insert the 3/8 in. (short) Phillips head screws though the leg or cradle foot and into tabs on the plotter. Tighten the screws.

Finish Assembly

Cut the plastic strap that holds the carriage in shipping position. Remove all packing foam from around the carriage. Assembly is complete.
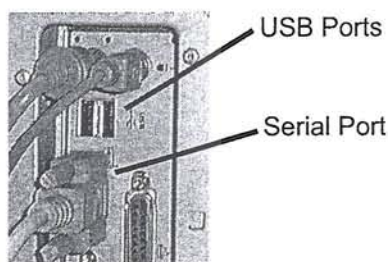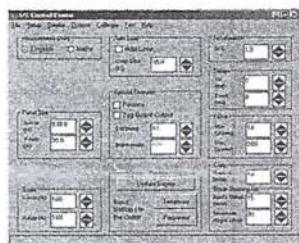
Step 4 — *Finish Installation*

Connect the Machine Cables

Make sure that the power is off ("O" symbol on the switch) to the cutter. Connect the supplied serial cable or USB cable (if available) and the power cord to the panel on the back of the right side of the cutter. Plug the machine power cable into a wall socket or surge

Connect the Computer Cable

Make sure that power is off to the computer. Connect the serial cable or USB cable to one of the ports on the back of the computer. See the *Installation* chapter of the user guide for more information. **Note:** *An adapter is required for 25 pin serial connections (not included).*
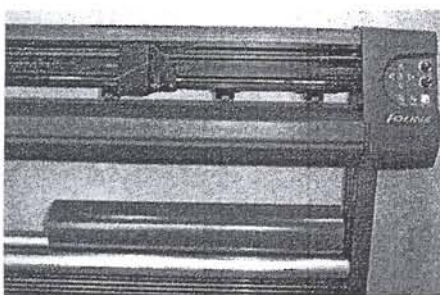
Install the Software

Install the Ioline Control Center onto the computer. Select, "Install Ioline Control Center," from the list of options in the Setup program on the CD-ROM. The Setup program also allows installation of the electronic User Guide and the necessary viewer.

Installing USB Drivers (if included)

Please see the included guide, *Installing USB Drivers for Ioline Products,* for the driver installation process.
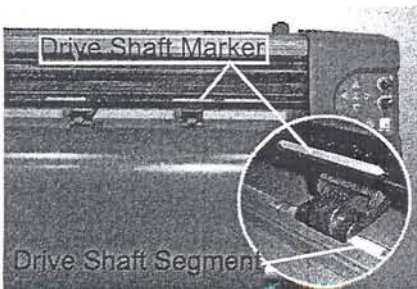
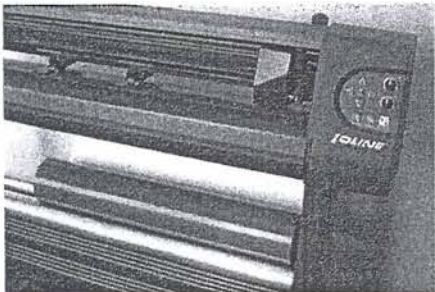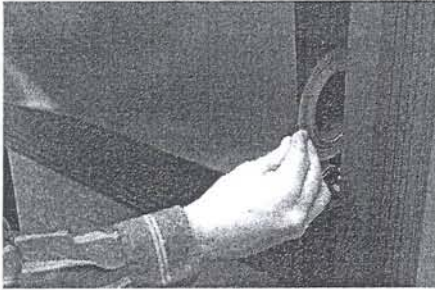## Step 5 — *Prepare to Cut*

Load the Vinyl Roll

Place a roll of vinyl onto the media rollers. With the pinchwheels up, thread the vinyl through the machine.

Position the Pinchwheels Over the Drive Shaft

Move the vinyl and pinchwheels from side to side to find a position where the outermost drive wheels are on the vinyl, about 1" from each edge, and over a drive shaft segment. Use the drive shaft markers (illustration) to determine where to place the wheels. The long drive shaft segment on the right side of the machine allows many pinchwheel positions for most vinyl widths. Evenly space the inner idler wheel(s) (not on the I/S 60) over drive shaft segments. Make sure there is a minimum of an inch between the edge of the roll and the stand leg
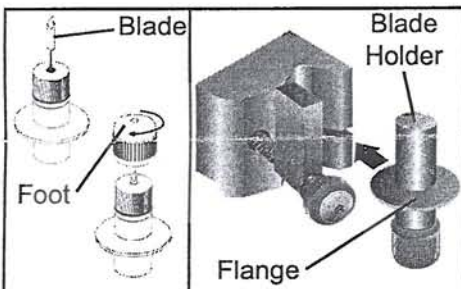
Square the Vinyl

Lift the pinchwheels off the drive shaft with the lever. Pull enough vinyl through the machine so that it reaches the roll. Align the edge of the vinyl with the edge of the roll making sure that the vinyl is flat and square in the machine. Ensure that the outer pinchwheels are an inch from the edge of the vinyl. Lower the pinchwheels.
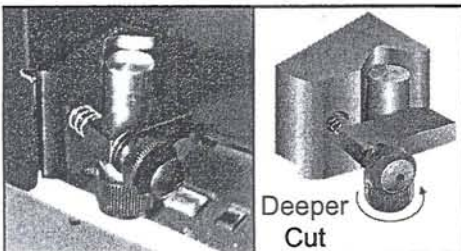
Position the Vinyl

Do not let the vinyl become suddenly tight between the plotter and the vinyl roll. Manually unroll a few feet of vinyl from the roll to create a slack loop behind the machine. Use the arrow keys on the keypad to move vinyl through the plotter to check alignment. Move the front vinyl edge two inches in front of the blade and the carriage an inch from the right edge.

Insert a Blade, Load the Holder in the Jaw

Unscrew the *Foot* from the blade holder. Insert a *Blade* into the hole in the *Blade Holder* making sure it is fully seated. Replace the *Foot* and adjust it *so that the blade tip is barely inside the foot with no blade exposed.* Loosen the thumb screw on the carriage jaw and insert the *Blade Holder*. The *Flange* will fit in a slot in the jaw. Rotate the clamp down onto the *Flange* and tighten the thumb screw until the *Blade Holder* is held securely.

Adjust the Blade Exposure and Force

Turn the force knob on the keypad clockwise to maximum. Press the **Test Cut** key. There should be little or no scoring of the vinyl. Turn the foot 1/8 turn clockwise (from the bottom). Press the **Test Cut** key. Weed the test cut pattern and examine cut quality. Continue adding blade exposure and pressing **Test Cut** until the pattern weeds easily and the blade leaves a clear scoring on the backing. Reduce the force in small increments and perform more test cuts until the test cut pattern does not weed well. Set the force to the previous position. Press and hold the **Test Cut** key for 3 seconds. The plotter will cut a large test pattern as a final check. Move the carriage and vinyl to a starting position for the first file. Press the **Set Origin** key on the keypad. The light on the keypad will turn green.

The plotter is ready to cut. Refer to the User Guide and the design software documentation for more information about optimizing plotter