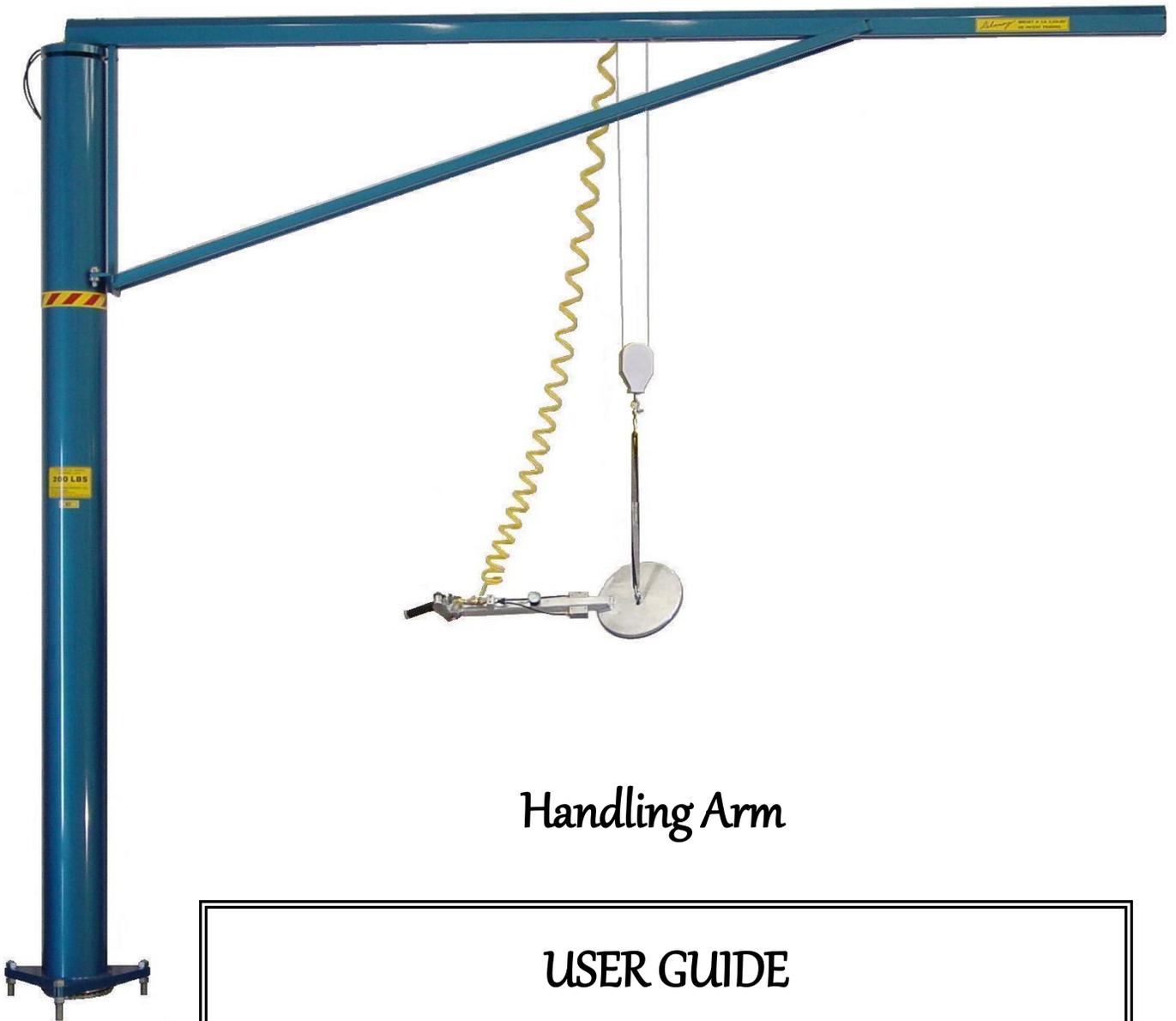


Delaney

TECHNOLOGIES INC



Handling Arm

USER GUIDE

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Installation Procedure

1. Determine the position of the handling arm.

The handling arm can be located anywhere within an 11 foot radius from the center of the material sheet positioned on the machine table.

Things to consider when determining the position :

- Material bundle positions
- Passage ways
- Ceiling clearances
 - Ducts
 - Pipes
 - Ventilation units
- Columns
- Access way to the machine
- Fork lift access

2. Mark the position of the 3 anchor holes using the supplied template. (Avoid floor cracks)

3. Drill the 3 holes 1”(25 mm) diameter x 4” deep for 9” long anchors or 5” deep for 10” long anchors .

4. Thoroughly clean the holes using a round wire brush and an air gun. Repeat as required to ensure that the holes are free of dust.

5. Set the anchors.

a) The nuts should be approximately 1/2” from the end of the threaded rods. They will support the template at step (f).



b) Prepare the epoxy gun

- Remove cap
- Add nozzle

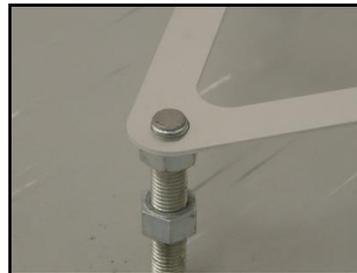
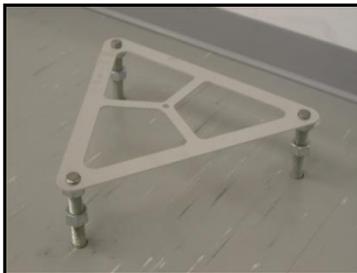
- c) Make sure the template is close to your work area
- d) Fill the 3 holes with epoxy to 2/3rd up from the bottom.

IMPORTANT : To ensure homogeneous mixture, the first few squirts should be discarded.

- e) Press the anchors in the holes rotating them counter clockwise until the pin is set at the bottom of the hole and the epoxy overflows. If it doesn't overflow, remove the anchor and add more epoxy.



- f) When the 3 anchors are in the holes, set their position using the template by resting it on top of the nuts.



- g) Curing time : 45 minutes (or as indicated on epoxy container)

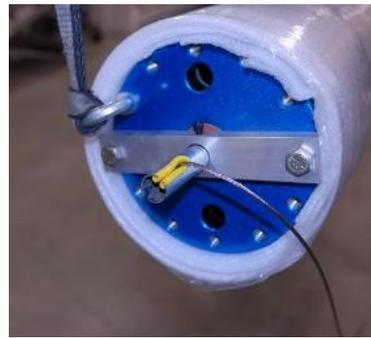
CAUTION : Do not move the anchors while the epoxy is curing.

6. Prepare the post.

- a) Be sure you have enough space around the column.
- b) Position the base of the column On the floor near the anchors.



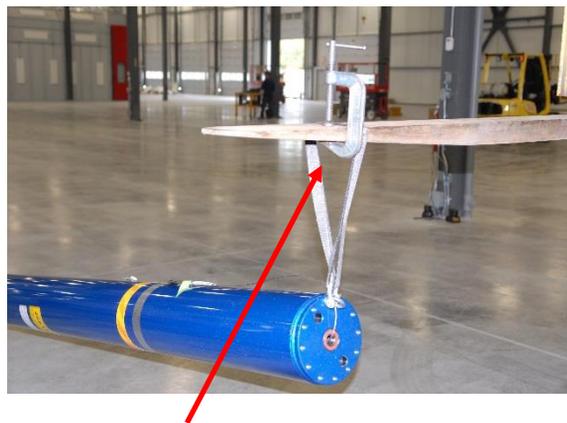
- c) If the column has a transport tube, remove it. Also remove the support bracket. Be careful not to damage the cable in the process. Leave the eye bolt in place.



If the column does NOT have a transport tube, then remove the retaining wire at the base of the column by untying the knot and by pulling on one end of the wire.



- d) Run a sling through the eye bolt on top so that the ends can be attached to the fork of a forklift.



CAUTION : Use a clamp at the end of the fork to prevent the sling from sliding off the end while lifting.
Be careful not to damage the cable.

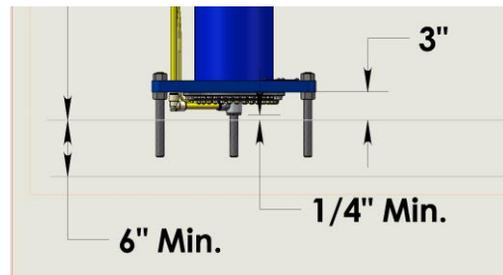
- e) **Lift the column leaving the protective panel bolted on to the base. When the column is suspended vertically, remove the protective panel and the threaded rods. 3 of the 6 nuts will be used to secure the column on the permanent anchors.**

- f) Set the 3 Nuts 3" from the floor (2 " from the top of the threaded rods). Then, carefully set the column on the anchors taking care not to hit the valve under the base.



- g) Level the column by raising or lowering the anchor nuts as required.

There must be at least ¼ inches of clearance between the valve and the floor.



- h) Once the column is levelled, tighten the 3 top anchor nuts.

- i) **Remove the eye bolt from the top of the column.**

Install the horizontal beam

- a) Hold the beam horizontally with a fork lift.



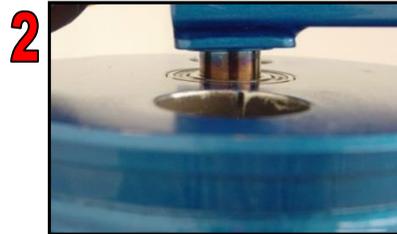
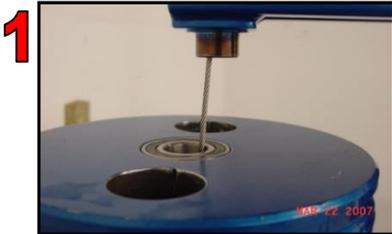
- b) Thread the wire through the pivot bushing, around the pulley and down between the diagonal braces.



- c) Attache the hoses to the diagonal brace. The manifold bracket should be approximately 20" from the end or as best suited for the operation. Evenly distribute the clamps along the brace with the last one 6" away from the bearings at the column.



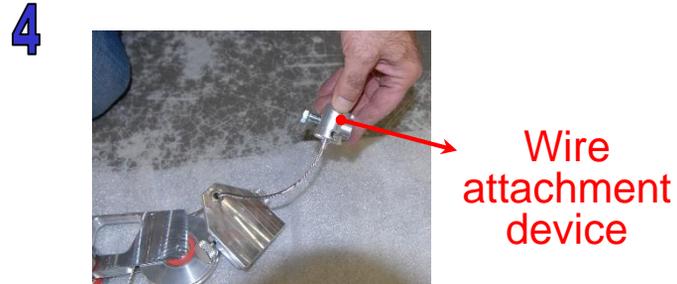
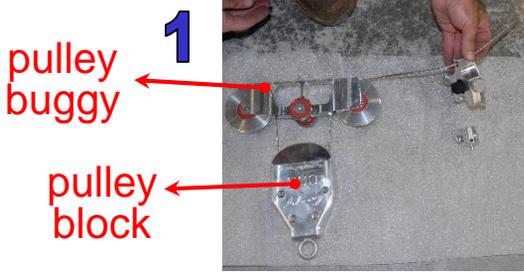
- d) Lift the horizontal beam 2 inches above the top of the column pulling the slack from the cable as you lift.
- e) Position and lower the pivot bushing onto the bearing at the top of the column.



- f) Adjust and tighten the lock screw on the vertical brace at the top of the column leaving a maximum gap of 1/16".
- g) Insert and adjust the rotation friction brake under the angle support and between the 2 bearings. Tighten the set screw so that the beam rotates freely when pushing on the braces near the column and stays in place when letting it go.



h) Thread the wire through the pulley buggy and pulley block.



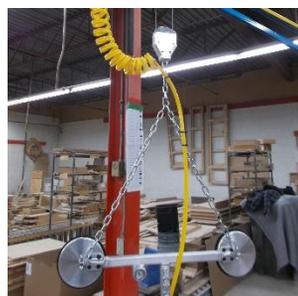
i) Insert the buggy into the horizontal beam and secure the end cap to the beam using the knurled knobs.



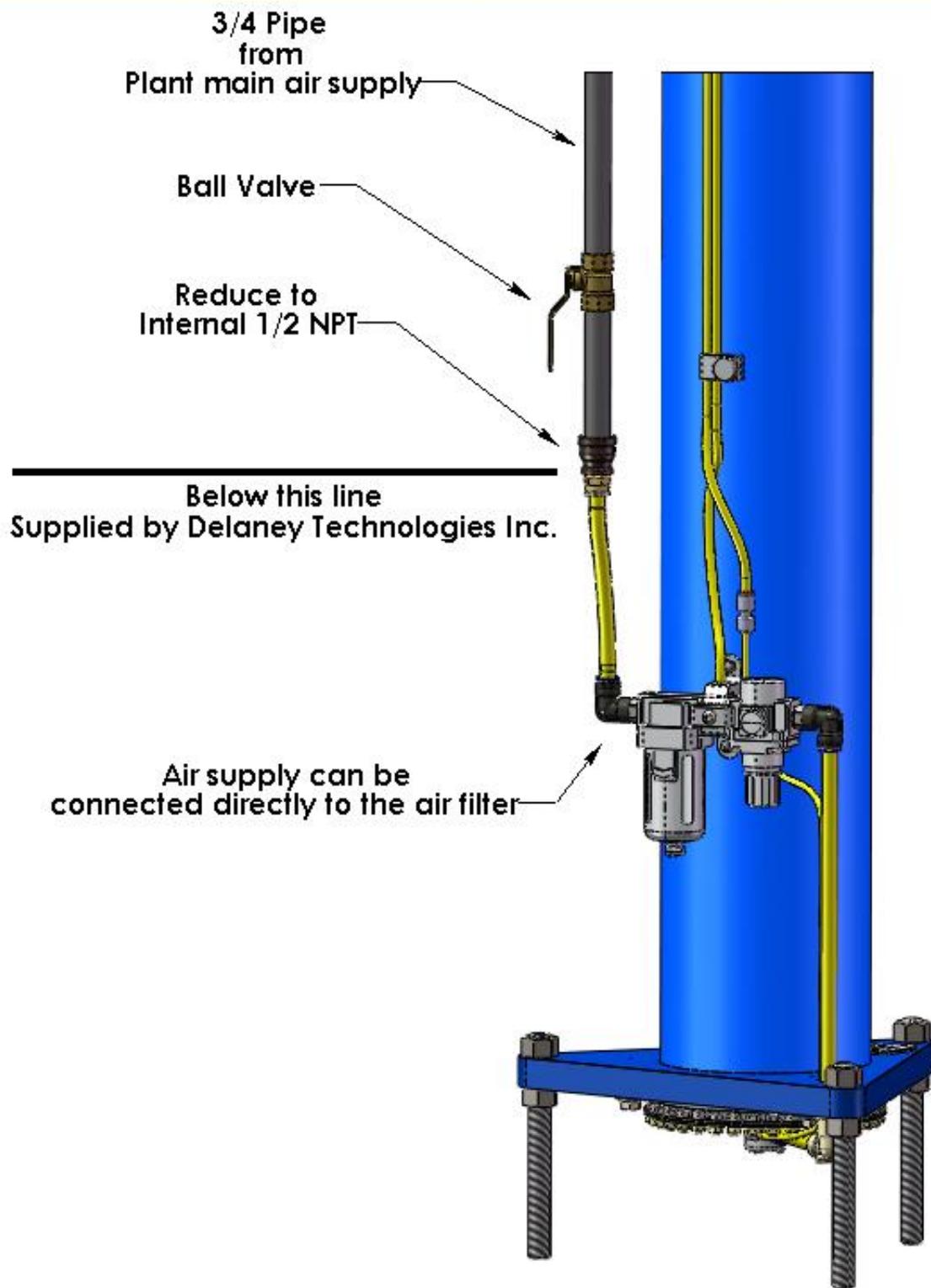
J) Adjust the wire length so that the pulley block is between the diagonal braces at their lowest point.



K) Hang the suction device on the pulley block and connect the air hoses.



9. Air Supply



Scale :	Weight :	Description :
1:6	n/a	Pneumatic Connections
By:	Roman Teliszczuk	Material :
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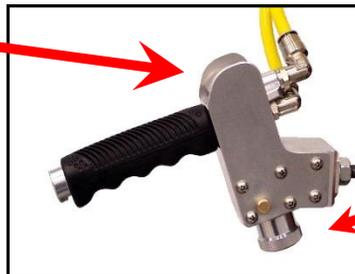
10. Adjustments :

Downward speed: You can adjust downward speed by changing the outlet pressure on the regulator located near the post footing. The lower is the pressure, the slower it gets.

Upward speed: You can adjust Upward speed by restricting the stroke of the Control button, using the set screw passing through it as a stop.

Still position: If the device tends to move up or down by itself, turn the adjustment button both ways until you obtain the device to stay still. If the still position is difficult to obtain, it's better to be always moving upward, so it will simply return to its rest position.

Control button



Adjustment
button

YOU ARE NOW READY TO USE YOUR HANDLING ARM.

CAUTION

When not in use, the holding device must be positioned at the highest level. The wire must always be tight. If loose, the wire will get stuck in the pulleys and damage itself

RIGHT



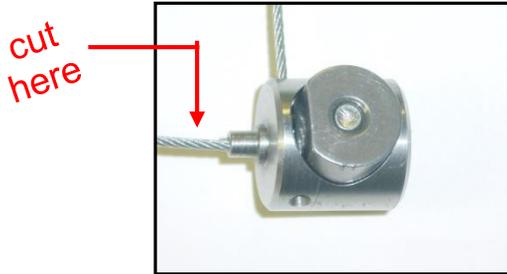
WRONG



Wire Replacement Procedure

1. REPLACING THE OLD WIRE

- a) Unhook the suction device. **Do not disconnect the air.**
- b) Cut the wire from the end of the beam. **Secure the pulley block**



- c) Pull out the wire clamp from the end of the beam and cut the wire between the cap and the clamp. Pull the wire from the pulleys and let it hang down the post.
- d) Back up the safety set screw in the beam at the top of the post.
- e) Unclamp the hose from the post.



- f) With the "fork lift", lift the beam approximately 6 inches from the top of the post.

You may need to pry the beam up from the bearing

Make sure that the safety set screw is well back up.

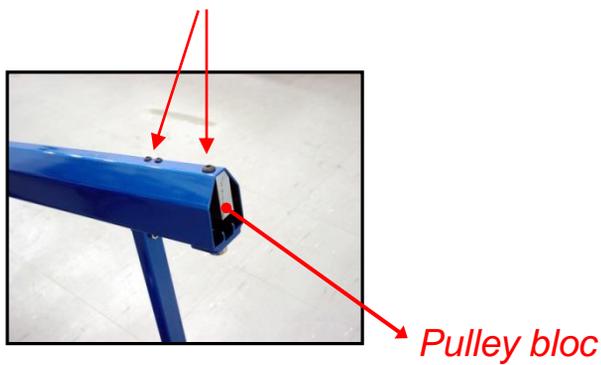


- g) Move the beam sideways or lower it to the ground. **(optional)**

Make sure the wire does not tangle.

i) If require, put the beam down and change the pulley bloc.

Unscrew the 3 bolts.



2. REPLACING THE NEW WIRE

a) With the control handle on the suction device, raise the piston to the top of the post.

Pull on the wire as the piston moves up

b) When the piston reaches the top, hold the button on the control handle for a few seconds to ensure the piston is firmly against the top.

c) With the special key, untighten the old wire.

d) Secure the new wire onto the piston.

If the piston turns, simply apply more pressure to the piston using the control handle.



e) Remove the key and the wire from it.

Let the wire hang loose beside the post.

g) Using the control handle, lower the piston *slowly* to the bottom.

**** Make sure the wire is not tangled !!!**

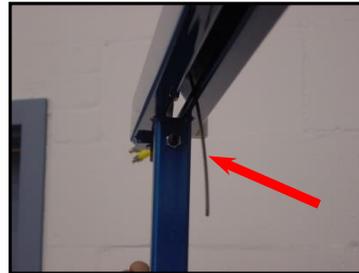
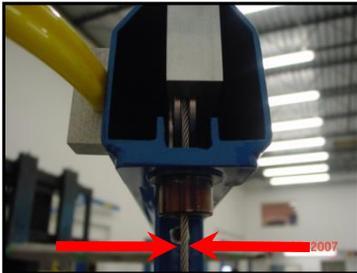
YOU ARE NOW READY TO INSTALL THE BEAM

3. INSTALLATION OF THE BEAM

a) Hold the beam horizontally at 4 feet off the floor and the pivot end 1 foot from the post.

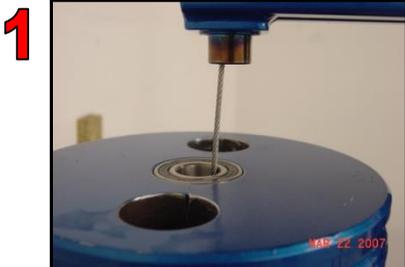


b) Thread the wire through the pivot bushing, around the pulley and down between the diagonal braces



c) Lift the horizontal beam 2" above the top of the post pulling the slack from the wire.

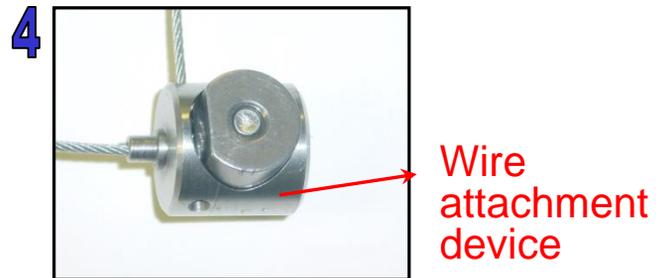
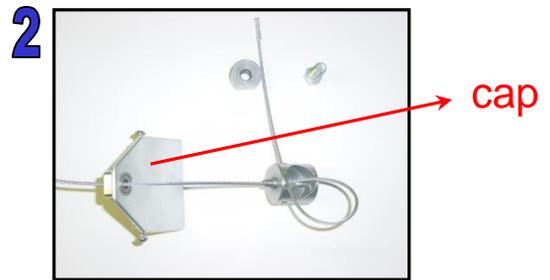
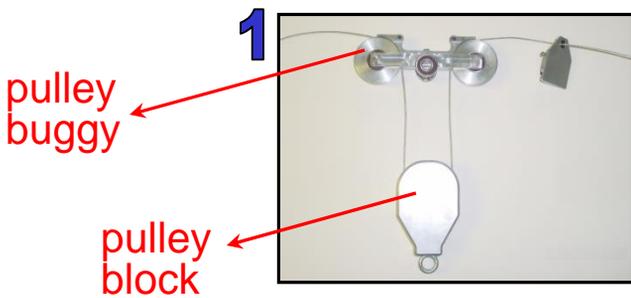
d) Position and lower the pivot bushing onto the bearing in the top of the post.



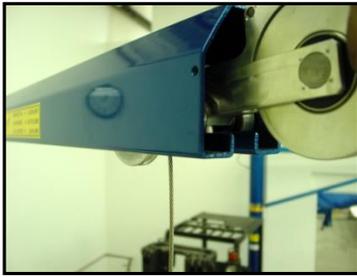
- f) Secure the lock screw on the vertical brace at the top of ccolumn leaving 1/32" of clearing between the diameter and the screw.



- g) Thread the wire through the pulley buggy and pulley block.



h) Insert the buggy in the horizontal beam.



Make sure that the pulley block is supported.

i) Tighten the cap at the end of the horizontal beam.

j) Adjust the wire length by pulling it through the wire lock so that the pulley block is between the diagonal braces at their lowest point.



k) Tighten the wire lock screw.



l) Hang the suction cup on the pulley block.

FOR ANY INFORMATIONS

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