

## Accessory Assembly Instructions for the APQS LENNI

**These instructions allow the use of all of the features of the overhead pattern shelf.**

Remove the encoder from the bracket on the right rear of the machine.



Lift the front of the machine and rest it on its back so that you are looking at the bottom of the machine. Attach the mounting brackets shown below using 4 of the 8-32x1/2" button head screws.



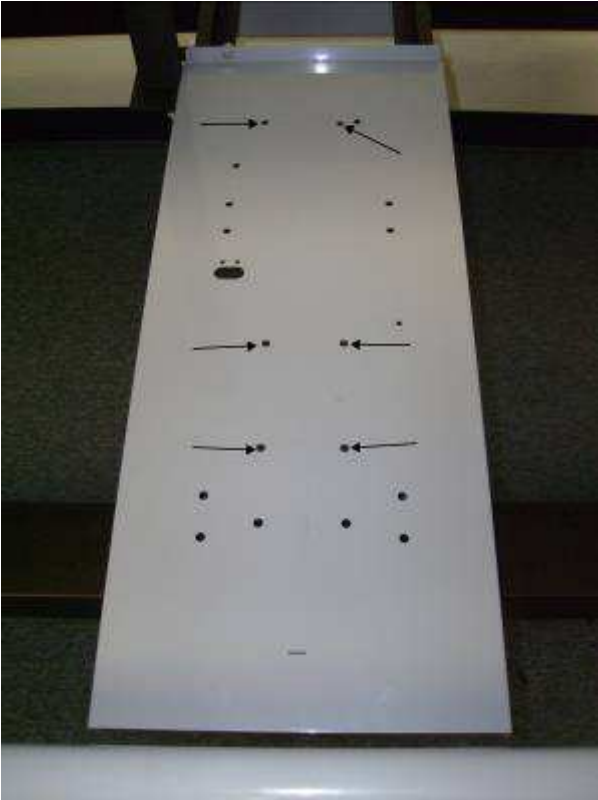
The 2 mounting holes in the large bracket are not exactly centered so when attaching the bracket rotate it so that the short side (shorter distance between the holes and the first bend) is closest to the back of the machine.



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NOTE replace picture with

Place the machine with mounting brackets attached onto the Magic Carriage Platform and align with the holes shown below.



Rear



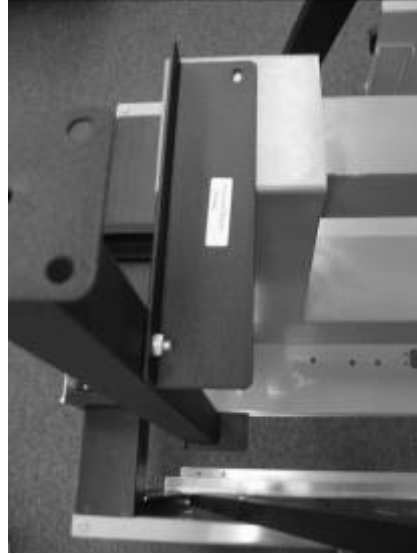
Front

Slide the carriage itself as far to the rear position as possible.

Find the **Vertical Laser Mount** and attach it to the carriage with 2 bolts and nuts as shown in the picture below. The head of the bolts will be toward the machine and the nuts on the outside.



Remove the thread guide from the top of the Nolting. Find the **Horizontal Bracket** and attach it to the Nolting using the thread guide and its mounting screw. Attach the other end of the **Horizontal Bracket** to the **Vertical Laser Mount** with the  $\frac{1}{4}$  -20 x 2" bolt and nut.



Find the **Laser Arm** and attach it to the **Vertical Laser Mount** with four 1/4 x 1 1/2" bolts and nuts. Install the batteries in the laser according to the instructions in the laser box.

Put the laser into the clamp at the front of the mount making sure the aperture end is about flush with the bottom side of the mount and tighten the screws.

Place the brass sleeve over the laser. It will rest on the top of the mount. It is slightly out of round and when rotated will depress the laser button and act as the on/off switch. If the laser beam is too intense or too large, a piece of opaque tape with a needle hole placed over the aperture will restrict the size of the beam.



Put the clear acrylic tube on the **Magic Wand** and then the spring. Insert the assembly in to the mount near the laser. The **Magic Wand** is used by pressing/pulling down the wand and sliding it alongside the Straight Line Guide or other wand accessories.



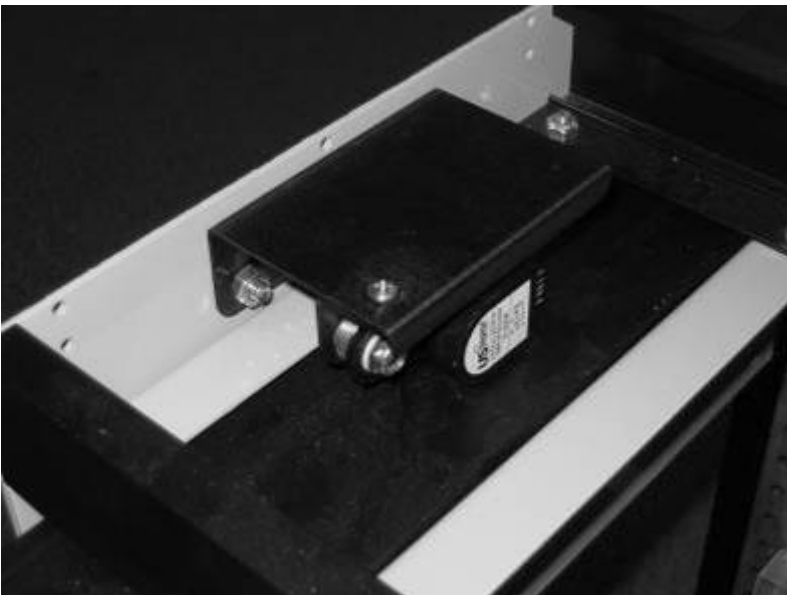
To prepare to attach the Intllistitch regulator verify your bracket matches the picture below.



Using 1/4-20 x 1/2" bolts and nuts align the two holes in the **USD Bracket** with the respective holes on the inner edge of the rear plate of the carriage assembly and attach.



Use the button head screws to mount the brackets with encoders attached, one on the underside and one on the USD bracket.





View from underneath the **Carriage Platform**.

Put both the encoder wires through the oval hole in the **Carriage Platform**. The longer one will plug into the x-axis encoder at the rear of the carriage. Be sure to allow plenty of slack, as the carriage moves from front to rear. Plug the shorter wire into the encoder under the carriage.

Use the included wire ties through the small holes next to the oval hole to secure the wires and again on the carriage mount by the USD bracket. You can also use wire ties through the holes on the rear carriage plate to control the Nolting power cord from rubbing against the rear frame rail.