

## Procedure: Smartrac - Replacing the "Y" axis drive belt

### Tools Required:

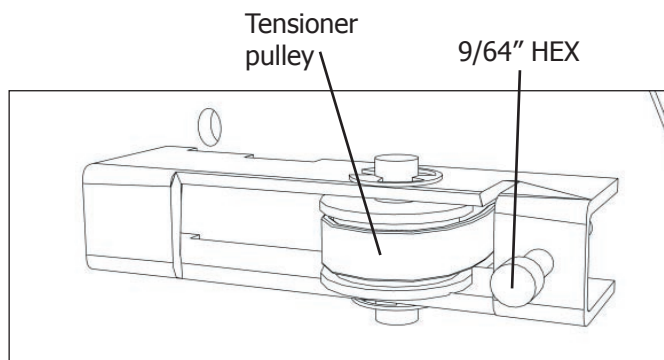
9/64" HEX Wrench  
Phillips tip screwdriver

### Removing the covers

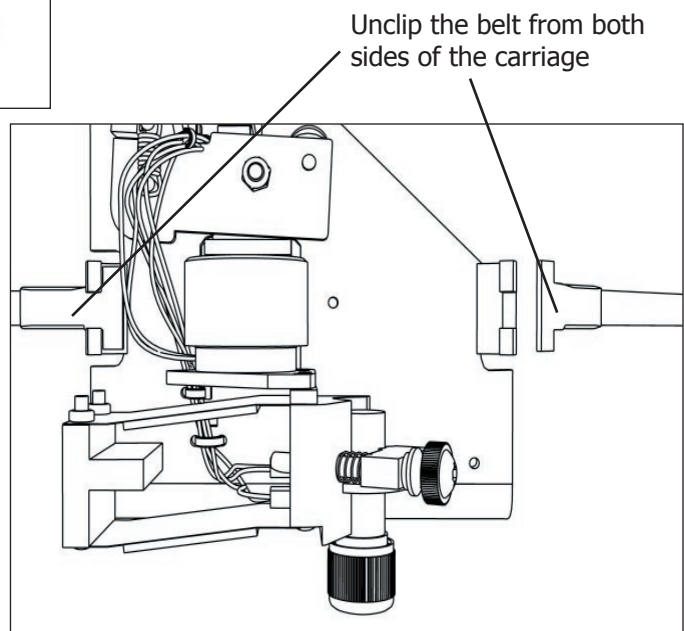
- 1) Unplug the power, and computer cord from the back of the machine.
- 2) Remove the two (2) black "Phillips" screws on the right end plate, and one silver screw on the bottom of the cover. Remove the right cover by sliding it to the right and over the knobs.
- 3) Remove the two (2) black "Phillips" screws from the left end plate. Remove the left cover.

### Loosen the "Y" axis drive belt

- 1) On the left side loosen the "Y" transmission belt tensioner with a 9/64" HEX wrench. See Fig. 1
- 2) Un clip both sides of the belt clip from the carriage assembly. See Fig. 2



**Fig. 1** - "Y" axis belt tensioner



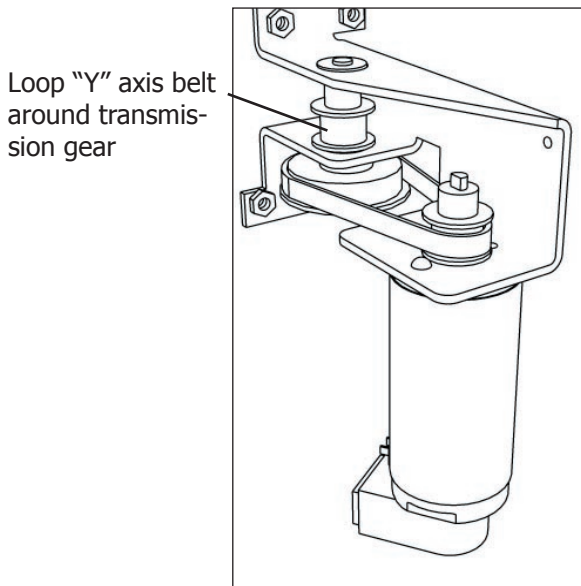
**Fig. 2** -Removing the "Y" axis belt from the carriage

## **Removing the old belt**

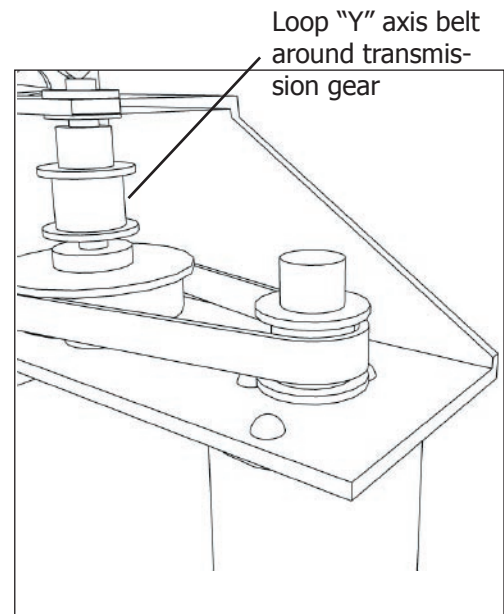
- 1) Now that the "Y" axis belt is free of the carriage, pull the belt ends through the slotted holes in the right and left end plates and discard.

## **Installing the new belt**

- 1) Slide the "Y" transmission belt between back of the carriage and the carriage traverse, with the belt teeth facing the carriage.
- 2) Feed the "Y" transmission belt through the rear slotted holes in each endplate and loop the belt around the transmission (See Fig. 3 or fig.4 depending on transmission style) gear and the "Y" axis tensioner pulley (See Fig. 1). Feed the "Y" axis belt through the slotted holes in the front of each endplate.
- 3) Clip the belt to each side of the carriage assembly and tighten the belt tensioner. See Fig. 1.



**Fig. 3** - Belt and gear on



**Fig. 4** - Belt and gear on