



DFS/CENTRA Y Axis Motor Belt Replacement

Tools needed: Phillips screwdriver

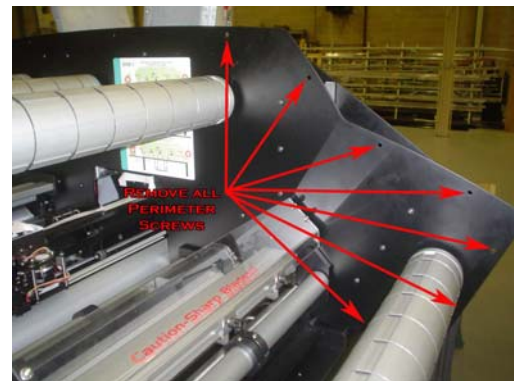
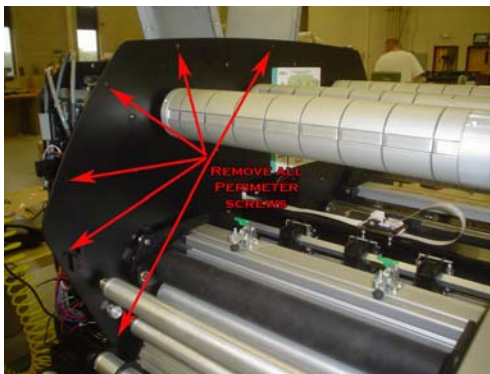
Hammer

3/8" open end wrench or small adjustable wrench

3/32" Allen wrench (included in the cutter's accessory kit)

5/64" Allen wrench (included in the cutter's accessory kit)

Step 1) Begin by removing the perimeter screws holding the rear cover in place. Carefully remove rear cover from the machine.



Step 2) Remove the Control panel from the front of the machine by removing the 2 Phillips head screws holding it in place. Lift control panel up and remove, but do not hang by wires. The cover can be temporarily hung on the handle for the first nip if you don't have a helper to hold the control panel. NOTE: Position nip handle to vertical position and lock in position prior to hanging control panel.



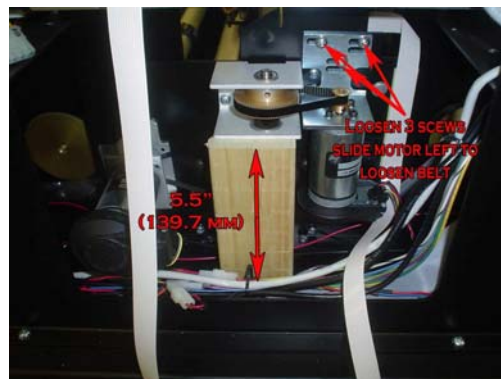
Step 3) Loosen the 3/8" locking nut on the Y axis belt tensioning assembly, then loosen the large, Phillips head y axis belt tensioning screw to relieve the tension on the y axis carriage belt.



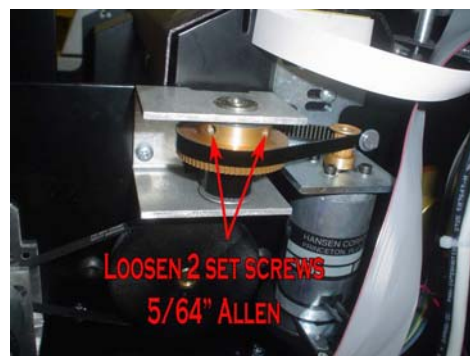
Step 4) Cut a piece of wood 5.5" long (139.7 mm) to support the underside of the U-shaped bracket holding the large gold gear and smaller drive gear.

NOTE: Failure to do this may result in damage to the U-bracket when the shaft is removed.

Loosen the 3 Phillips head screws holding the Y axis motor bracket in place and slide the motor toward the large, gold colored gear to release the motor belt tension.



Step 5) Loosen the two 5/64" Allen set screws located in the flange of the large, gold colored gear.



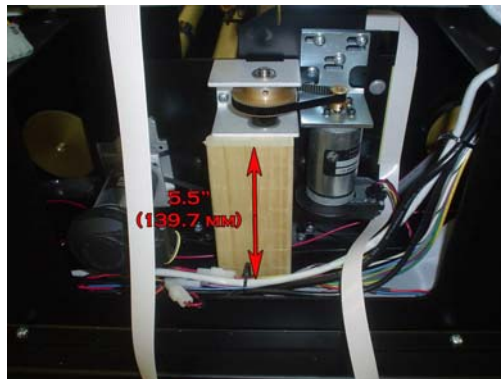
Step 6) Loosen the 3/32" Allen set screw located in the drive gear behind the Y axis carriage belt. You will have to rotate the gear until the set screw comes into view. This screw can only be accessed through the hole in the rear plate that the belt passes through. This is done from the front of the machine by moving the cutting head forward to the center of the machine and inserting the Allen wrench into the screw. **Do not remove the screw.**



Step 7) Remove the 2 circuit boards from the motherboard to allow access to the shaft going through the Y axis gear cluster. This shaft must be removed in order to replace the belt.

Step 8) Cut a piece of wood 5.5" long (139.7 mm) to support the underside of the U-shaped bracket holding the large gold gear and smaller drive gear.

NOTE: Failure to do this may result in damage to the U-bracket when the shaft is removed.



Step 9) Using the hammer and Phillips screwdriver, tap the shaft out of the bracket assembly. Inspect the shaft for any indentations from the setscrews. These should be removed prior to reassembly to aid with the installation of the shaft. Remove the large gold pulley and belt.

Step 9) Replace the old belt with the new one, insert the gold pulley back into the U-shaped bracket, and press the shaft back up into position.

Step 10) Retighten all set screws, including the hidden one in the side plate.

Step 11) Tension the Y axis motor belt until it has about 1/16" – 3/32" of free play, then tighten the long carriage belt at the front of the machine. To verify the long belt is properly tensioned,

turn the machine on prior to attaching control panel. If the belt produces a clicking noise when the machine is powered on, tighten the belt some more.