Kodak

Automatic Pallet Loader

Float Bar Belt Replacement

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Revision History

Revision	Date	Author	Comments
1	26 Feb 2008	A.Blignaut	First draft release
2	12 Mar 2008	A.Blignaut	Added changes from Jeff Hogewoning.

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1. OVERVIEW

This procedure describes how to remove and replace the float bar Z-axis belt.

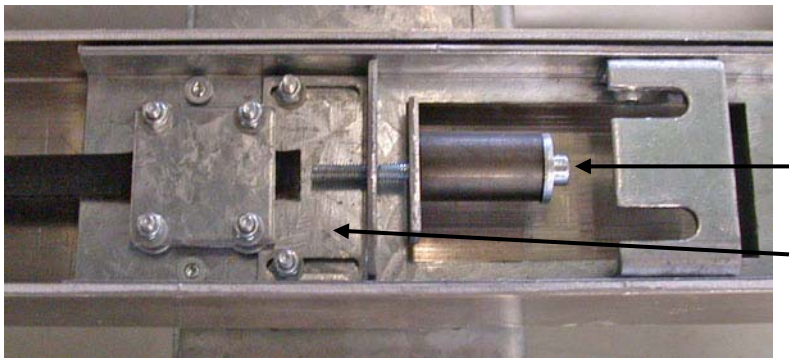
2. PARTS/TOOLS REQUIRED

Float bar belt – 346-00056 (8 m long)

3. FLOAT BAR BELT REPLACEMENT PROCEDURE

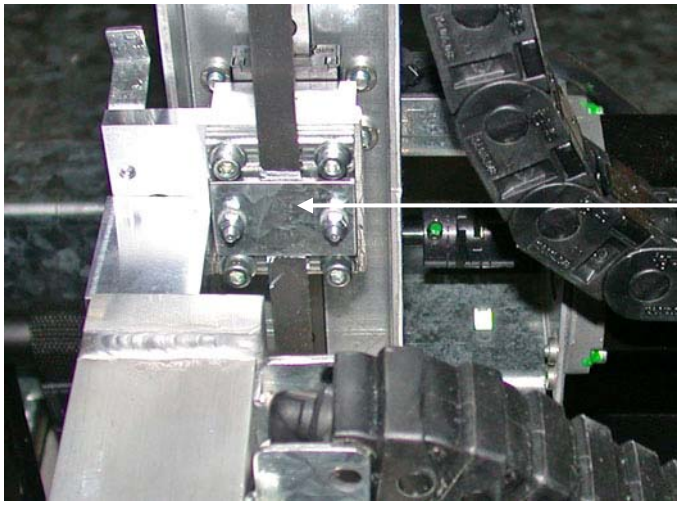
3.1 Removing the Belt

1. Move the picker/pusher to the home position. Type `>>apl init` .
2. Open the APL rear doors to get access to the float bar. Type `>>apl unlock` .
3. Remove the float bar top cover—you only need to loosen the nuts.
4. Undo the non-tensioner side of the counter balance spring.
5. Loosen the tension adjustment screw and the two nuts on the slider bracket to relieve the tension in the belt.

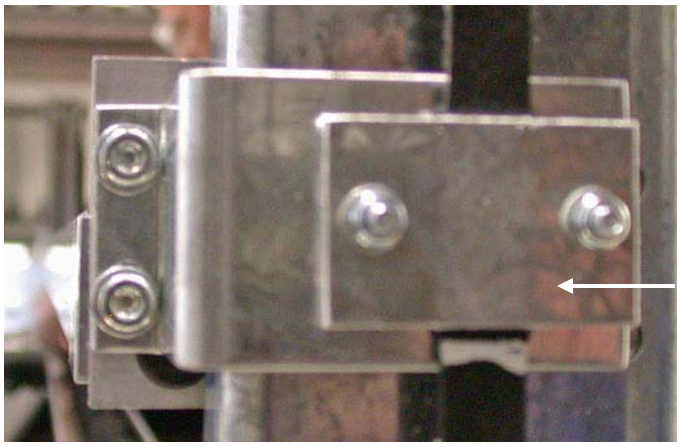


6. Support the plenum bar with two spacers to prevent it from dropping down to the float bar when the belt is released.

7. On the motor side of the float bar, remove the belt clamp that secures the belt to the plenum bar.

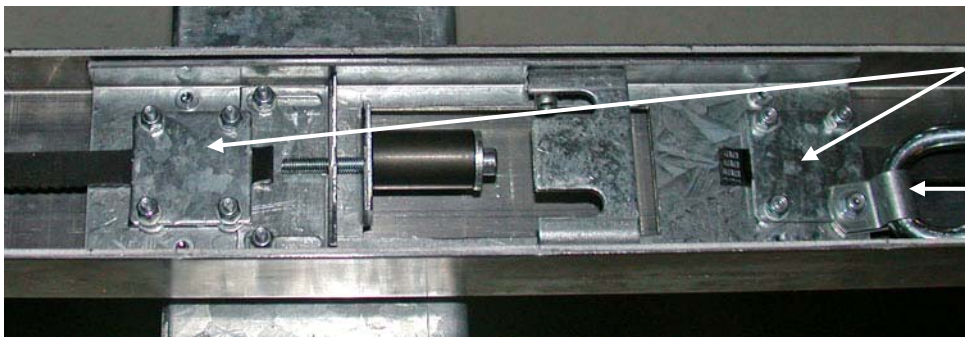


8. On the opposite side of the float bar, remove the power box side belt clamp (on the outside of the float bar).



9. Loosen the two tensioning slider bracket nuts.

10. Remove the belt clamps on either side of the tensioning bracket. Ensure that the spacer washers between the clamp plates are not lost. On newer APLs there will also be a spring hook on the right belt clamp that must be removed.



11. Take note of the belt routing before removing the existing belt. Remove the belt.

3.2 Installing the Belt

1. Install the new belt with the teeth facing towards the float bar (inward). It may be necessary to remove the bottom cover and the outer side cover on the motor side to feed the belt through.

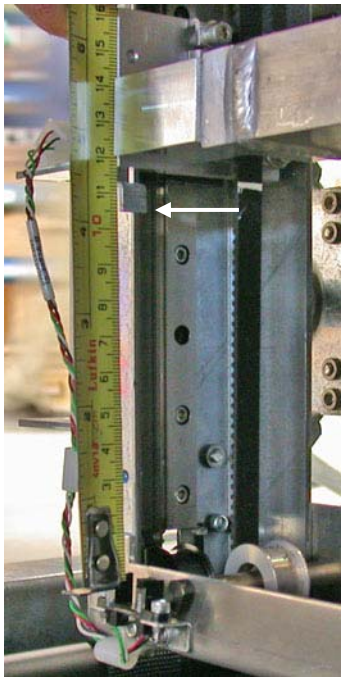


2. At the tensioning bracket, fasten the new belt in the right side belt clamp. Ensure that the washers are in place between the clamp plates to prevent the belt from being compressed too much. For newer APLs, also make sure that the spring hook is installed at this belt clamp.
3. Pry the tensioning slider bracket open (extended) as much as possible and tighten the two nuts to hold it open.
4. At the left belt clamp, pull the belt tight with pliers and fasten the belt in the left belt clamp. Ensure that the washers are in place between the clamp plates to prevent the belt from being compressed too much. Do not over tighten the clamp plates.
5. Loosen the two tensioning slider bracket nuts to allow the slider to move.
6. To tension the belt, tighten the tension adjustment screw until the spring is compressed inside the spring cylinder. There should only be enough friction on the spring cylinder so that the cylinder can still be turned using your fingers.
   The float bar belt should now be tight.
7. Tighten the two tensioning bracket nuts.

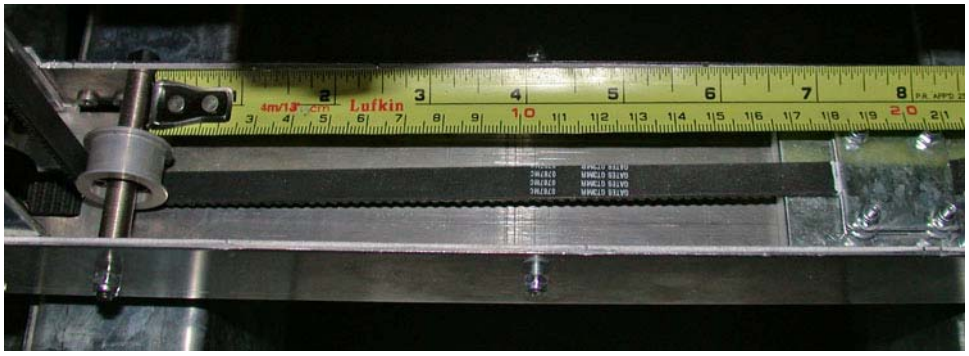
To attach the plenum bar to the belt:

Note: The final position of the tensioning slider assembly should be 50 mm from the pivot pin with the plenum in the home position.

8. On the motor side, measure the approximate distance from the sensor tab to the midway position of the sensor. Add 50 mm to the measurement.



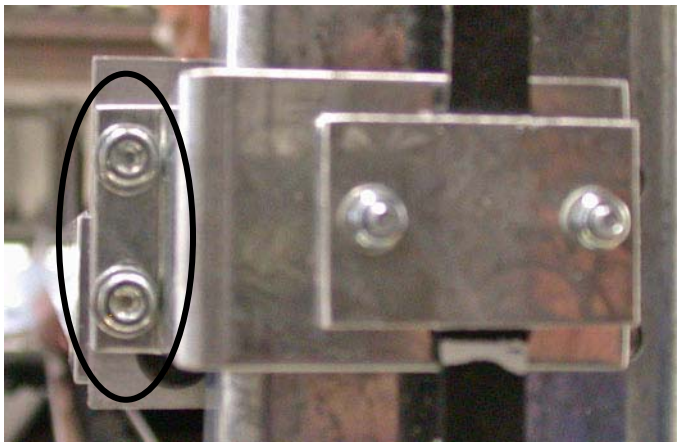
9. On the opposite side of the float bar, measure from the pulley shaft to the edge of the tensioning slider bracket and move the slider bracket/belt to achieve the measurement calculated in the previous step.



For example, the first measurement taken in step 8 was 105 mm. Add 50 mm = 155 mm. We need to move the slider left to the 155 mm mark.

10. Fasten the motor side belt clamp on the plenum bar.
11. Fasten the power box side plenum bar belt clamp.
12. Connect the spring.
13. Install the float bar top cover and any other covers if they were removed.

14. To level the plenum bar, move it down to the home position by hand until it is in contact with the cover of the float bar frame. Ensure that the plenum bar is touching on both ends indicating that it is parallel to the frame. If one end is up more than the other, loosen the two screws at the power box side belt clamp and move the plenum accordingly. Tighten the two screws again.



15. Manually move the plenum bar up and down to ensure that there is no interference and that the movement is smooth.