

SERVICE BULLETIN

MANDATORY

FIX ON FAILURE

INFORMATION ONLY

Ref: SRV-019-004

Date: 5-21-19

Product: 200 Series and SDX Series AirFlex Headers

Re: Mechanical Flex Mode Adjustments

Problem:

The HHC is not responsive in the flex mode. The end of the header appears to “lag” slightly.

Solution:

The HHC (Header Height Control) tube that controls the two flex sensors must be adjusted properly. If the tube binds or the activation tabs on the tube is not adjusted properly the HHC will not respond fast enough. The following adjustments must be checked to make certain that the sensors are activated when the cutter bar moves.

- Check to make sure the tube (Figure 1) is free to move in the bushings on the strut. The paddle movement should affect the sensor movement immediately. If the tube sticks this will affect the responsiveness of the HHC.

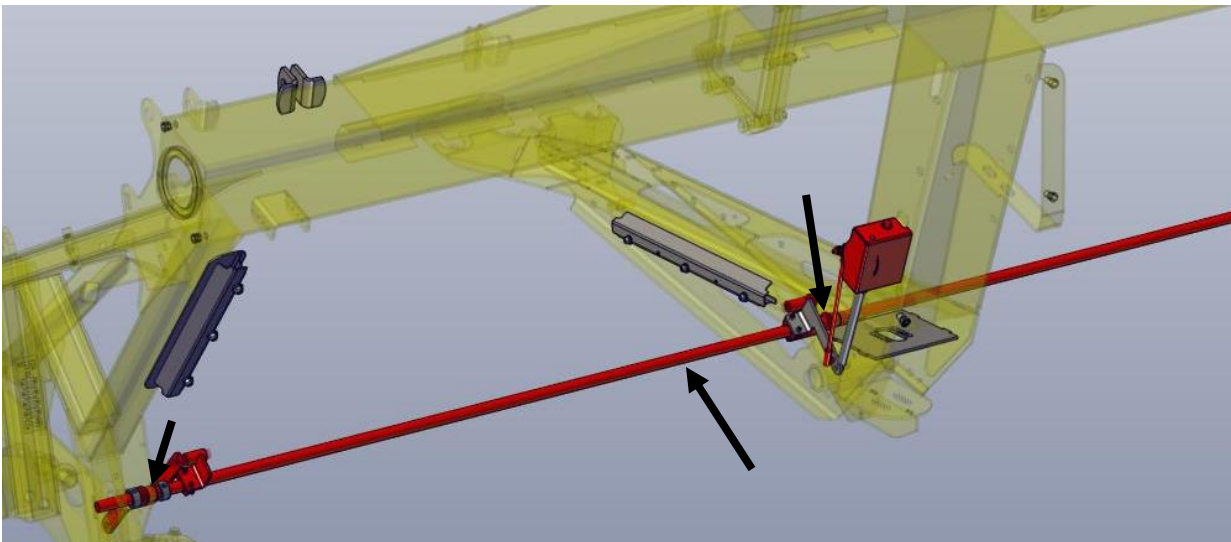


Figure 1

- Make certain the tube is not bent or binding in the bushings. If the tube is bent it should be replaced. The tube may also have dirt built up on the surface. This will cause the tube to bind in the bushings. If the tube has dirt in the area of the bushings the tube must be removed and cleaned. (Figure 2).

Figure 1

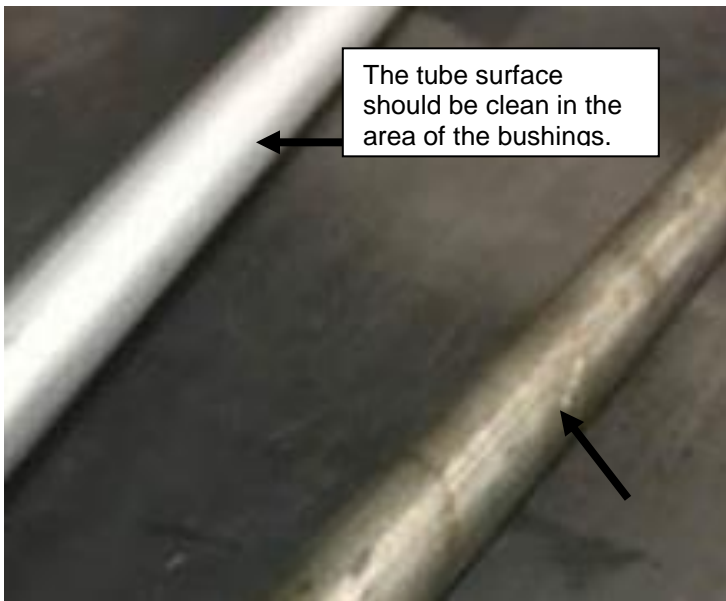


Figure 2

- The lock collars on each end of the HHC tube (at the end paddle) have collars to hold the tube into place. These collars have set screws. Do not overtighten the set screws on the collars, or this could deform the tube slightly and therefore make the tube tighter in the end bushing.
 - The set screws need to just be snug on the HHC tube as they just need to keep the tube from axial movement.
 - The addition of Red Loctite on the set screws will help keeping them from loosening off. Tightening them up snug on the tube, 50 in. lbs. (Figure 3)



Figure 3

- The spring at each flex sensor should be set, in the sensor activation tab, in the hole to the rear of the header. This will give the spring the most pressure on the HHC tube to assist in moving the tube. The other hole on the front of the activation tab, close to the clamps on the tab, is there if twisting the tube is an issue. (Figure 4)
 - Note: On Model Year 18 and below the front hole, close to the clamps for the activation tab, is not in the tab.

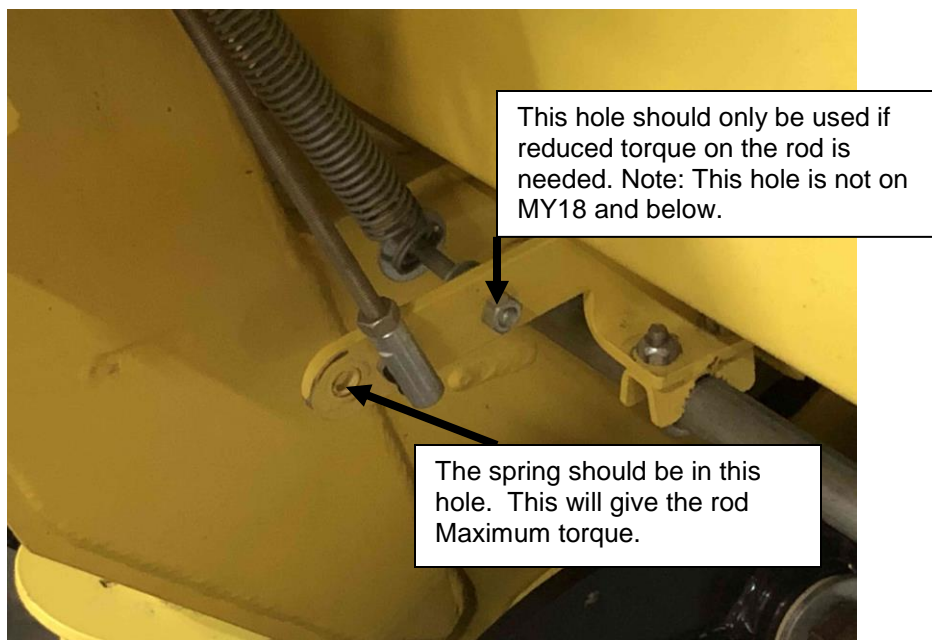


Figure 4

- The activation tabs for each paddle need to be set properly. This will make sure that the sensor reads the movement of the paddles. The outside tab should be set slightly tighter than the middle tabs. This will account for the “wind up” of the tube.
 - The header must be lifted off the ground with at least 100 psi in the air system.
 - All Flex HHC components are installed and the activation tabs (other than middle activation tab where spring is attached to) are loose on the HHC tube.
 - Place a 1/8" piece of steel spacer (sickle section, etc.) between the middle paddle activation tab (paddle where the sensor is installed) and the roller. (Figure 5)

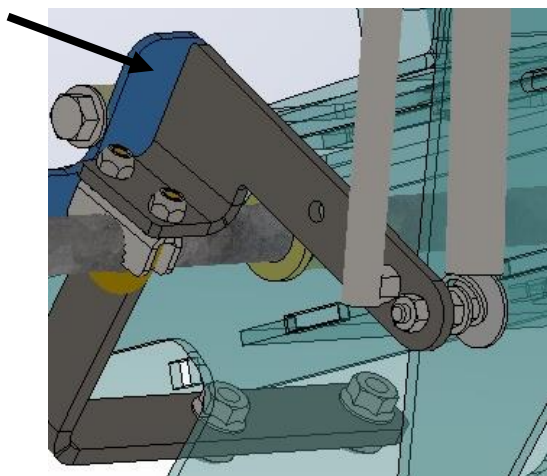


Figure 5

- Roll the activation tab forward until it touches the roller and tighten the U-bolt nuts (must have 3-4 U-bolt threads showing past the top of each C-lock nuts Figure 6). **Note: Make certain that all the tabs are set as close to the center of the roller as possible before the clamp nuts are tightened.**

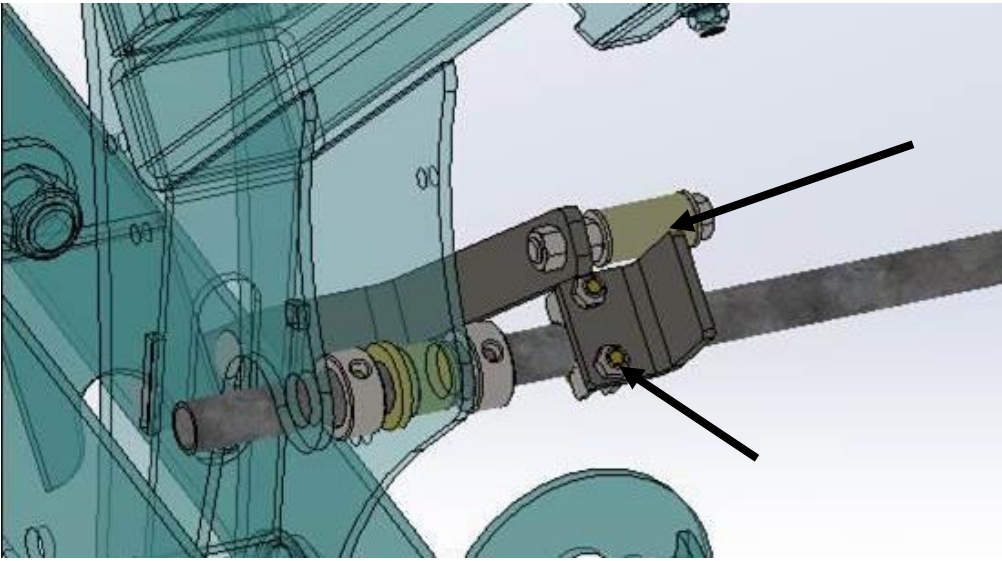


Figure 6

- When the end paddle activation tabs are set into place, remove the 1/8" spacer from the middle paddle.
- After the spacer is removed, you will notice that the middle paddle activation tab (the one the sensor linkage is attached to) should relax back close to the roller. There should be less than a 1/16" gap between the middle paddle activation tab and the roller.
 - If there is more than 1/16" of gap then redo the following steps with a thinner spacer (thinner than 1/8")
 - If there is less than 1/16" of a gap and the activation tab is pushing hard on the roller, then a thicker spacer is needed in the above steps.
 - The roller should spin underneath the middle paddle activation tab, the roller underneath the end paddle activation tab should not spin.
 - Set the remaining tabs on the tube to a gap of 1/16" between the tabs and the rollers. Note: The wider the head the more tabs are on the tubes to set.

Ordering Information:

No Parts required

Labor Allowance: N/A For information Only