MCU Drive Screw Retaining Collar Safety Hazard

Applies to

Magnus VLF Multi-Cassette Unit

Background

The following issue is urgent, and needs to be investigated and rectified on MCUs not yet installed, or currently being installed.

- There is a screw and washer installed in the top of the MCU drive screw. This screw must be installed proud of the top of the drive screw so that it is 1-2 mm below the top panel of the MCU. This screw has been installed incorrectly on several machines, with the screw tightened down until it contacts the bearing dust shield on the top of the MCU. It must be adjusted to the correct position as mentioned previously.

  The purpose of the screw is to lift the top panel if the lower position fork sensor fails. If the fork hits the frame and the drive screw continues driving, then the screw moves upwards, lifting the panel and tripping the panel interlocks. This stops the drive screw. The washer remains loose as it covers the opening around the screw.

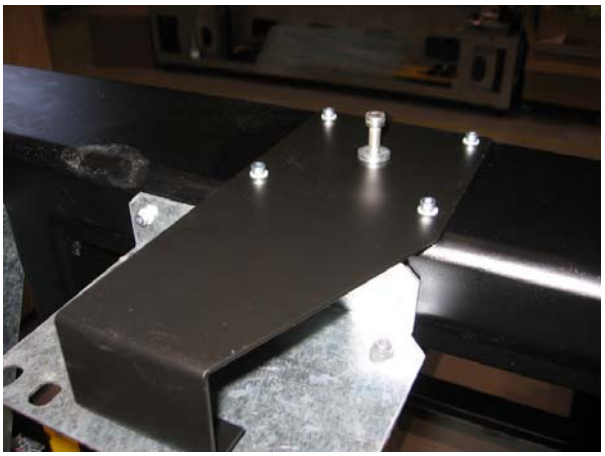
- The locking collar may not be installed on the top of the drive screw.

Ensuring Safety

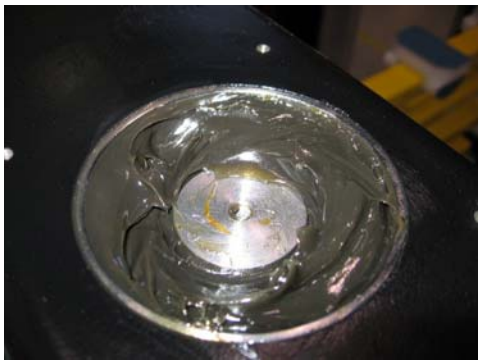


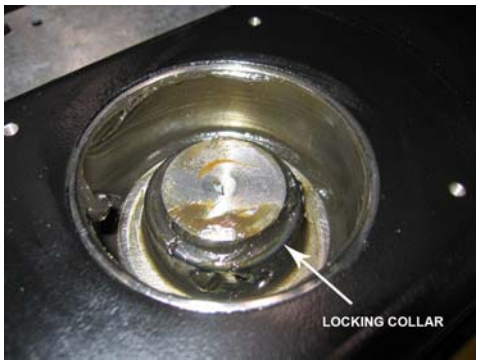
Warning: If the locking collar is not in place, the entire weight of the forks, cassettes, and plates is carried by this M6 screw and the lower screw bearing. This is unsafe, and can result in the MCU fork assembly dropping to the frame when the screw fails.

1. Drive the MCU forks to the bottom position.
2. Lift and move the rear MCU top panel to get access to the top of the drive screw.
3. Remove the M6 screw and washer from the top of MCU drive screw.



4. Remove the screw dust cover and check that the screw load collar is in place and firmly secured. Wear gloves while doing this as you will need to push the grease out of the way to check the collar. Keep the grease clean and put it back in place when done.







5. If the locking collar is not present, the MCU must not to be operated. **This is an unsafe operating condition.**
   The collar part # is 348-00012.
6. Once the collar installation is verified, replace the grease and install the dust cover.
7. Apply Loctite to the M6 screw and install the M6 screw and washer in the top of the drive screw.
8. Set the M6 screw so that it is 1-2 mm below the bottom of the top panel.

