



Hydraulic Hose Clamp Secondary Retention

Issue

The hydraulic hoses on the back-up wrench (BUW) are secured using hose clamps. Should the fasteners on the hose clamps loosen for any reason, the bolts may back out sufficiently to allow for the top half of the clamp to detach and fall.

Recommendation

- Check the hose clamps. Ensure the fasteners and clamps are not loose. If the fasteners are loose, they should be removed and inspected for damage and wear. When installing the fasteners, Loctite 242 Threadlock (or the equivalent) should be used to prevent the fastener threads from rusting and prevent loosening due to vibration. Torque the 1/4" x 20 UNC bolts to 11 ft-lbs.
- The bolt heads can be drilled and wired to prevent the bolts from backing out. See Figures 1 and 2 below for details.

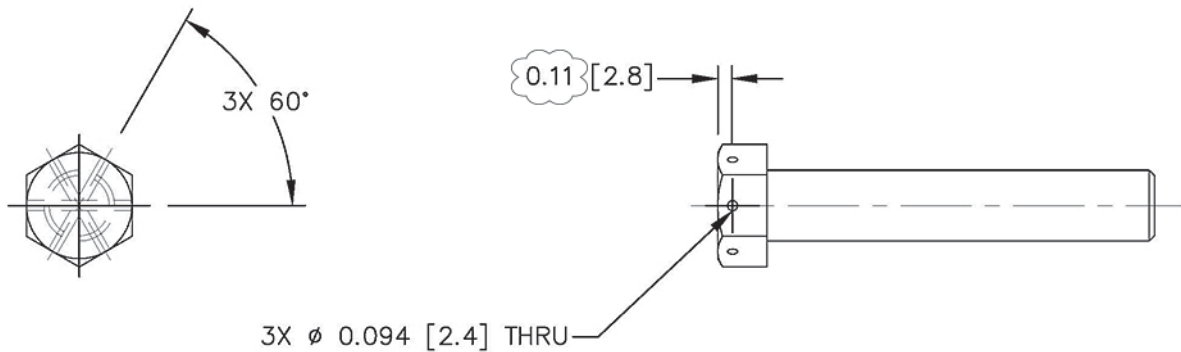


Figure 1: Bolt head drill detail

Alert

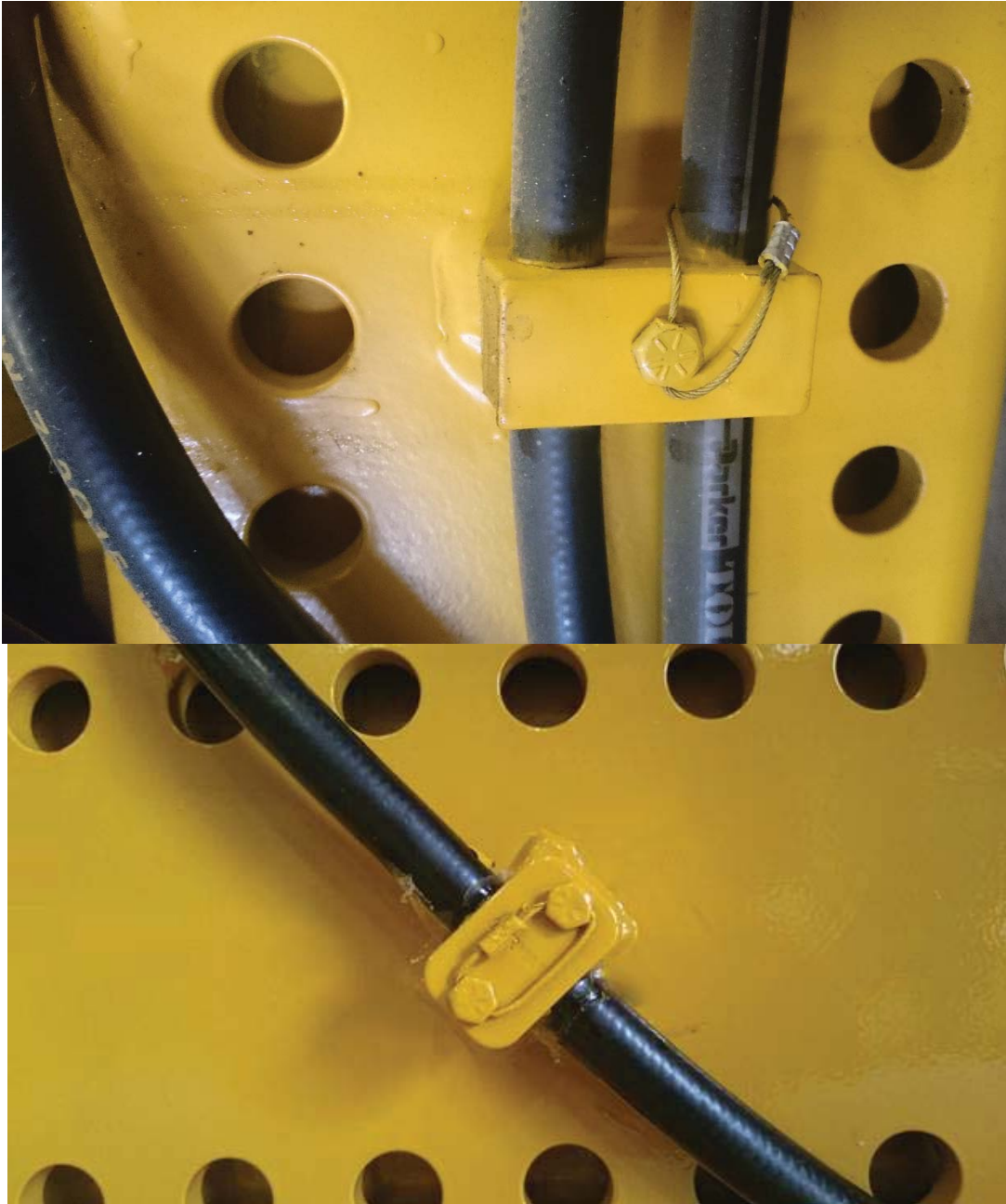


Figure 2: Use 1/16" diameter wire rope (Canrig p/n M21-2000-010) and ferrules (Canrig p/n M19-3006-010) to retain the fasteners.



Note: Version 2.0 – Corrected typographical error on Figure 1 to show 0.11 inches instead of 0.011 inches.