

Date Created: 17/01/2019

Product: ST2&Orig, STFM, Topper, PC3&4, PS3&4, XWAM, Merlin.

Title: Splined Spindle Stud Replacement



SAFETY! Before attempting to make any adjustments or carry out maintenance on the mower, review the hazard identification table (section 3a of your Operator Manual) and take all necessary precautions.



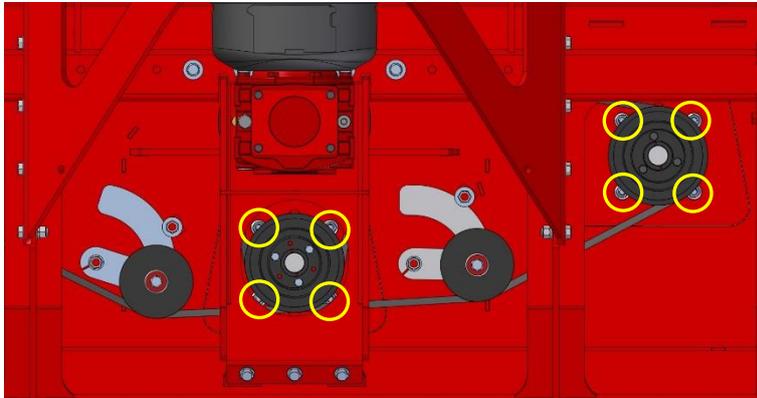
IMPORTANT:

An Impact Gun and a 17mm Impact Socket is **preferred** for this process. Alternately a hand ratchet and socket can be used.

This will be used to tighten the M12 nuts on the Splined Spindle Studs to draw them up into the Spindle housing.



Wear all required PPE when using Impact Tools.



This procedure covers replacement of splined spindle studs used in spindles on the following Trimax mowers:

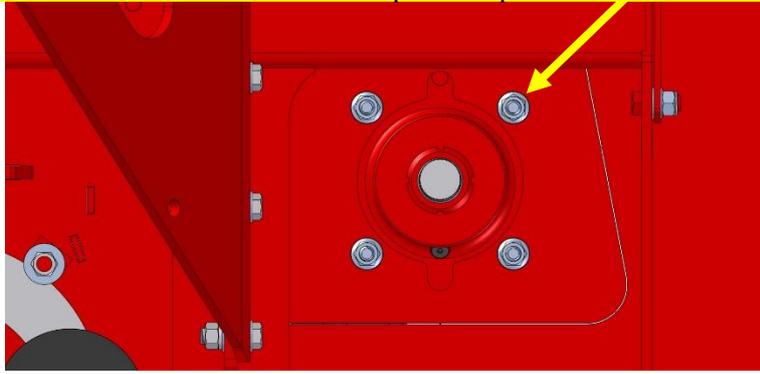
- Merlin
- Pegasus - Series 3 and 4
- Procut - Series 3 and 4
- Stealth - Original and Series 2
- Stealth Front Mount
- Topper
- X-WAM

See Sparts Parts Instruction #33 attached.
Pegasus S2-S3 - Remove Spindle Pulleys, Fit and Reset Spindle Pulleys, Fit and Tension Belts

The Spindle Pulleys must be removed to gain access to the Splined Spindle Studs.

Care must be taken to ensure that the Spindle Pulleys are re-assembled in the correct way and at the correct height.

Remove and REPLACE one Splined Spindle Stud at a time



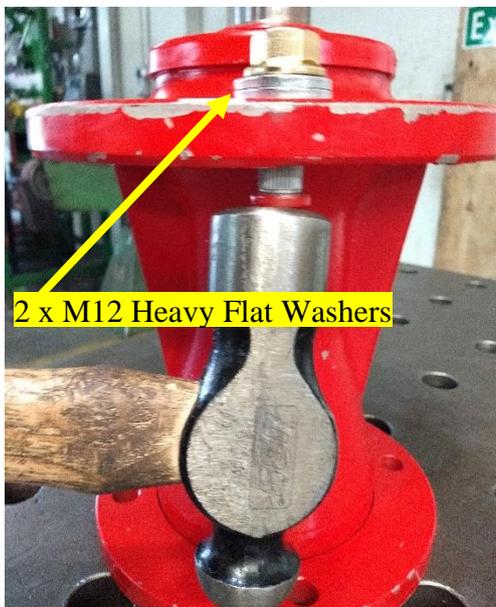
Instead of removing the complete spindle, it is possible to remove and replace one Splined Spindle Stud at a time with the Spindle in place, on the mower.

This way there are always at least 3 Splined Spindle Studs holding the Spindle in place at all times.



Spindle shown on left is removed from mower for clarity.

With the Spindle Pulleys removed, undo ONE of the nuts securing a Spindle in place.
Strike the top of the Splined Spindle Stud repeatedly with a hammer to remove it.



When initially seating the new Splined Spindle Stud it may be possible to locate it so that the splines align with the small spline grooves left in the aluminium housing by the old Splined Spindle Stud.

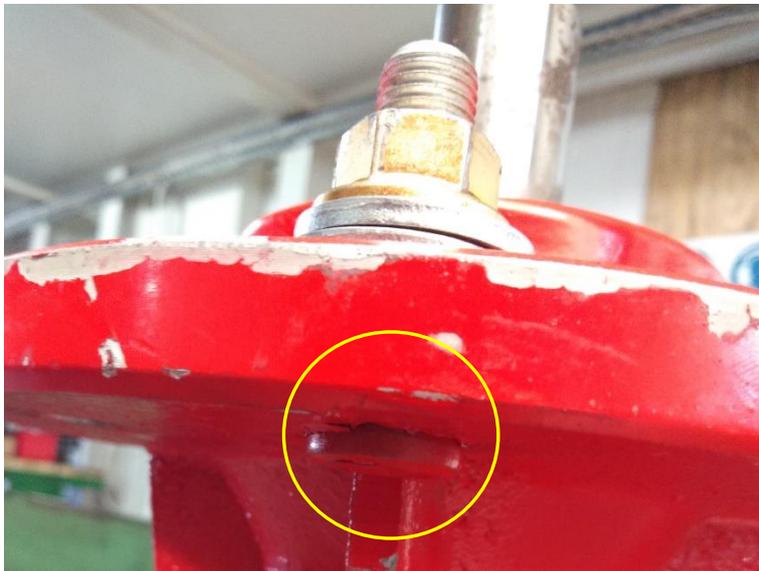
A light strike with a hammer may be useful to locate the stud initially.

Fit two M12 Heavy Flat Washers on the top side and hand tighten the nut.



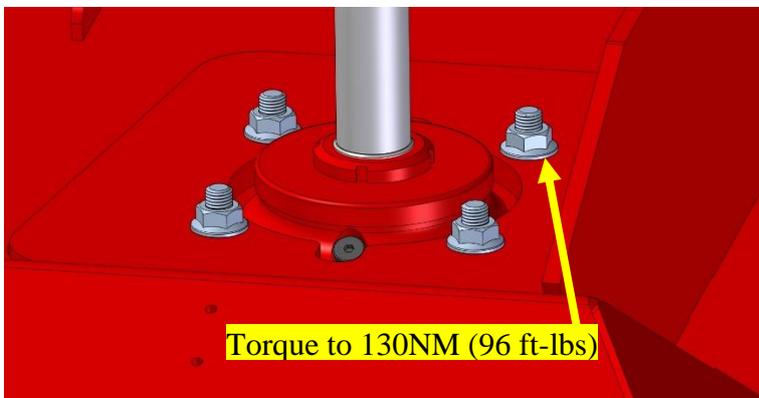
Using an impact wrench and a 17mm impact socket fully tighten the nut drawing the Splined Spindle Stud through the Aluminium housing.

Alternately a hand ratchet and socket can be used.



Check that the Splined Spindle Stud has been drawn fully home.

Note that the Spindle is shown removed from the mower for clarity.



Undo the M12 Nut, remove the M12 Heavy Flat washers.

Apply **MEDIUM STRENGTH THREAD LOCKING COMPOUND** to the new Splined Spindle Stud thread.

Re-install the M12 Nut and **torque to 130 Nm (96 ft-lb)**.

Now move on to the next Splined Spindle Stud.

Repeat until all replacement Splined Spindle Studs have been fitted.

See Sparts Parts Instruction #33 attached.
Pegasus S2-S3 - Remove Spindle Pulleys, Fit and Reset
Spindle Pulleys, Fit and Tension Belts.

Replace the Spindle Pulleys and belts.



Care must be taken to ensure that the Spindle Pulleys are re-assembled in the correct way and at the correct height.

Replace the covers.



This process is now complete.