

## Fitting Instructions

ISSUE	DATE	CHANGES
1	03/01/2024	Fitting instructions created
2	09/10/2024	New style laminate pulley added
3	08/01/2025	Front pulley washer removal image added



### Safety Warning

These Fitting Instructions are for informational purposes only. Shelbourne Reynolds makes no representation or warranty, express or implied, regarding the information provided herein. Under no circumstances will Shelbourne Reynolds have any liability to you for any loss or damage resulting from the use of these instructions or reliance on any information provided. It is extremely dangerous to carry out any work on a machine while it is under power. Never remove or reattach any parts unless the machine is fully turned off and disengaged.

Please read all safety instructions contained in your operators manual and observe all safety signs attached to the Stripper header. Your use of these instructions is solely at your own risk.

Please use proper safety equipment at all times



*Refer to the Operators Manual for additional information and Safety Procedures.*

*These instructions are worded if the kit was being installed while the header is mounted on a combine, to have the stripping rotor set in the slowest position and implement the safe stop procedure.*

*If not the pulley drive and actuator may need rotating and cycling to assist.*

### Recommended Tools List

#### Sockets And Spanners

13mm Socket  
15mm Socket  
17mm Socket  
19mm Socket  
24mm Socket (for ½" Impact)  
30mm (x2)

#### Other Tools

Large mallet  
Large pry bar  
Medium pry bars (x2)  
3mm Allen key  
6mm Allen key

#### Punch

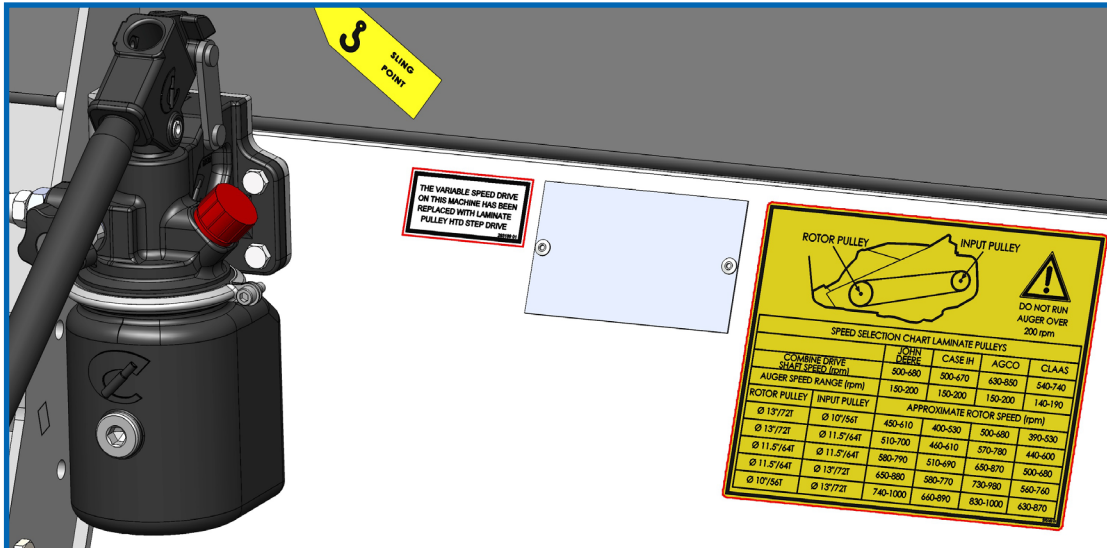
Hammer  
Pliers

#### Consumables

Tie wraps  
Anti seize grease  
Threadlocker

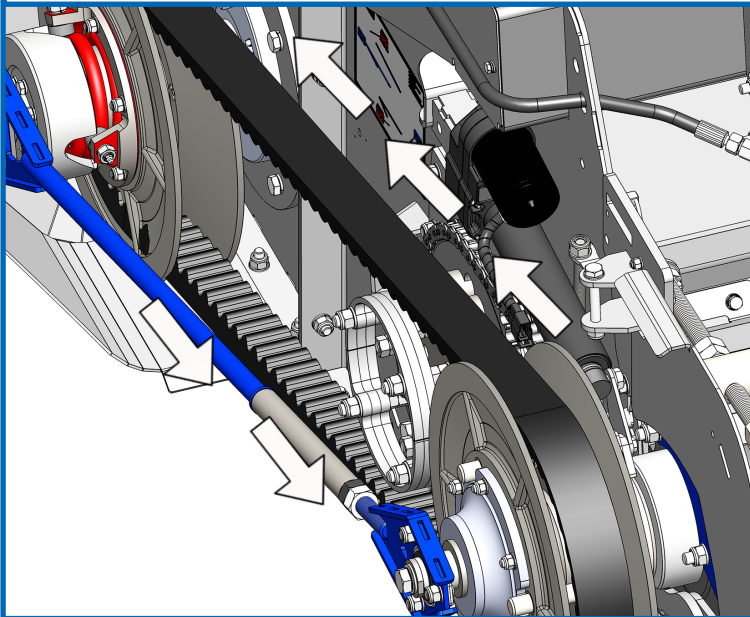
### Combine Specific Parts

- Case - No extra parts
- John Deere - 15T Sprocket and multicoupler
- AGCO - 12T Sprocket and multicoupler
- Claas - 13T Sprocket and chain half link



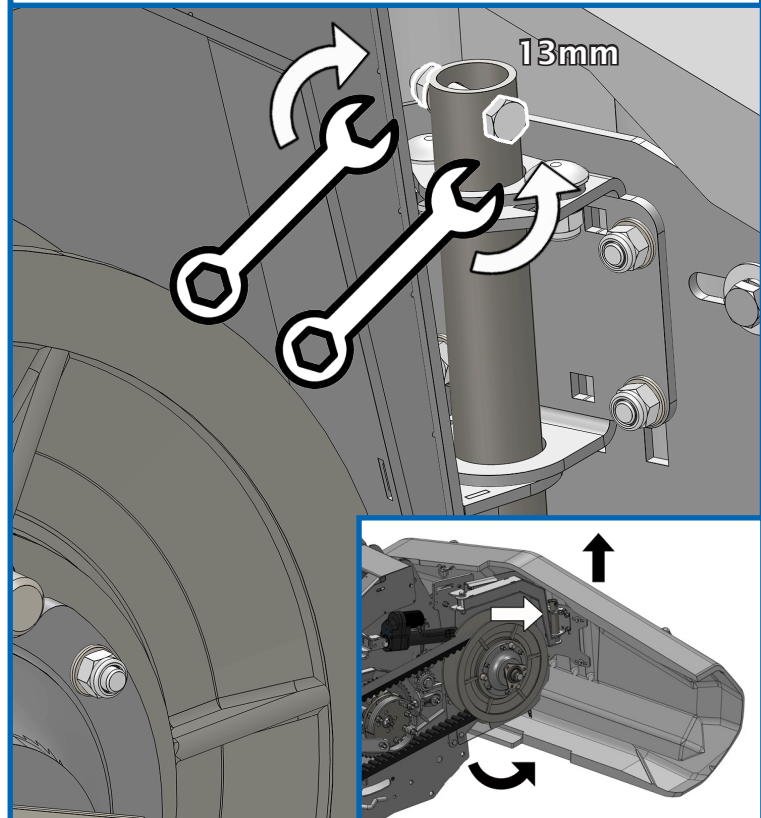
The decals should be placed near the identification plate of the machine.

1. Run the machine until the rotor speed is at minimum. Front pulley is fully closed and rear pulley is fully open.

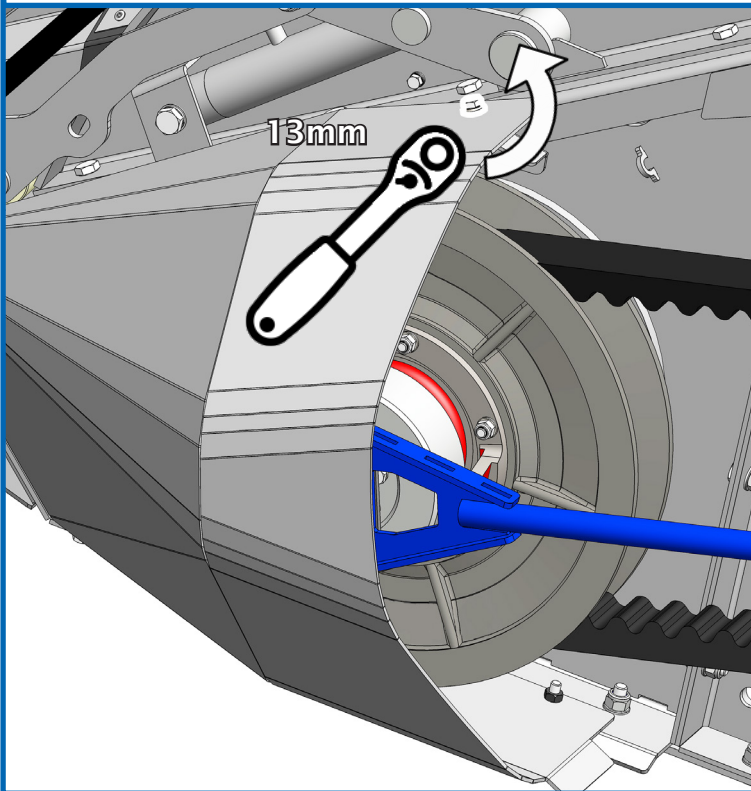


Stop the machine and implement safe stop. DO NOT put hands between pulley sheaves.

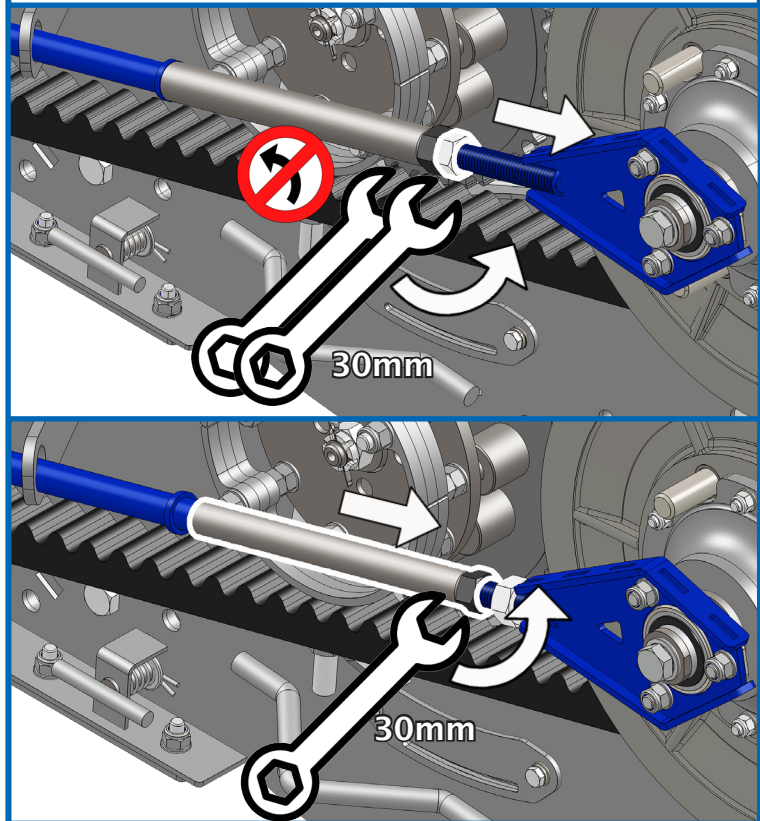
2. Remove the guard.



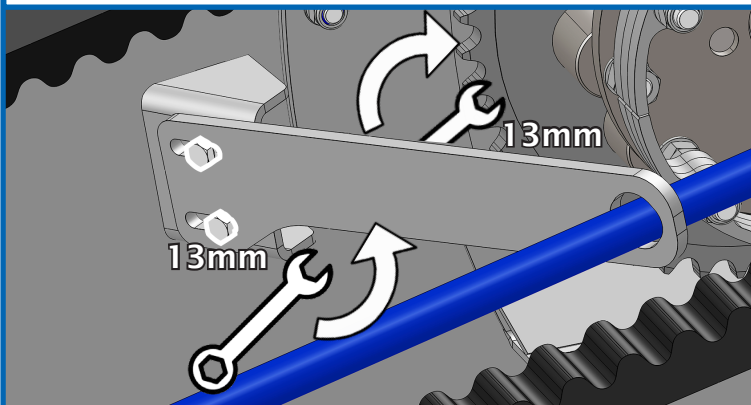
3. Remove front steel nose cone, by removing the four bolts.



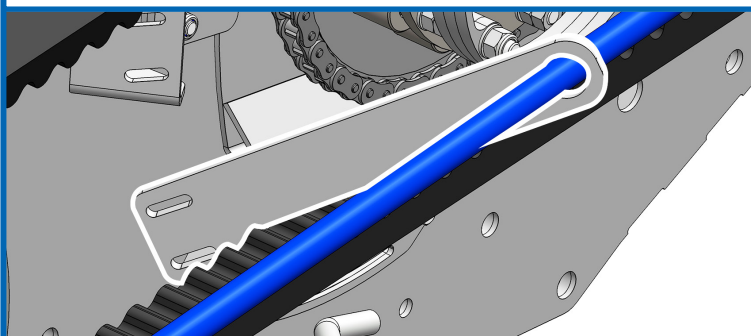
4. Loosen the tie rod.



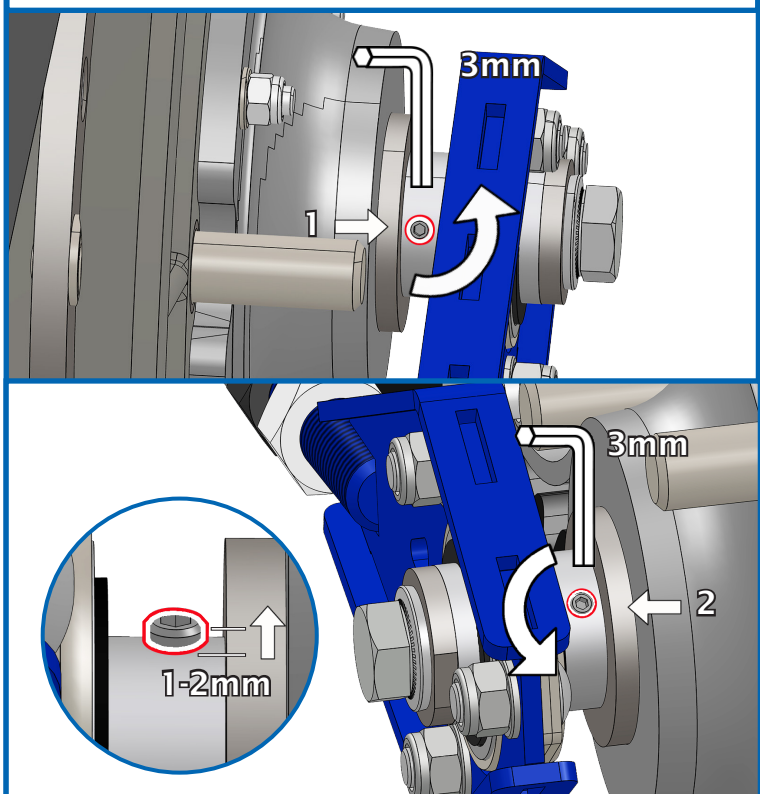
5. Remove the tie rod support fasteners.



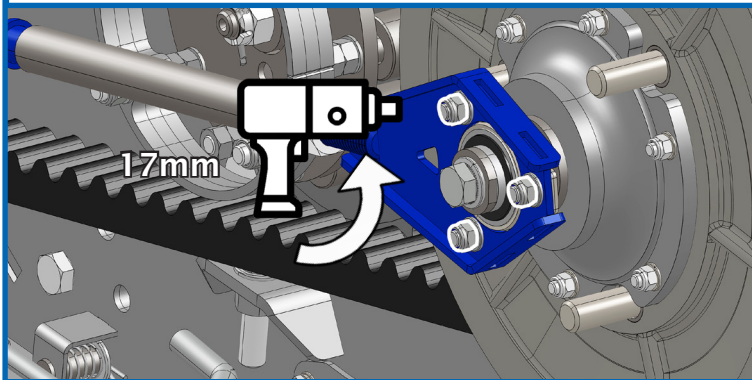
Let support bracket hang down from tie rod.



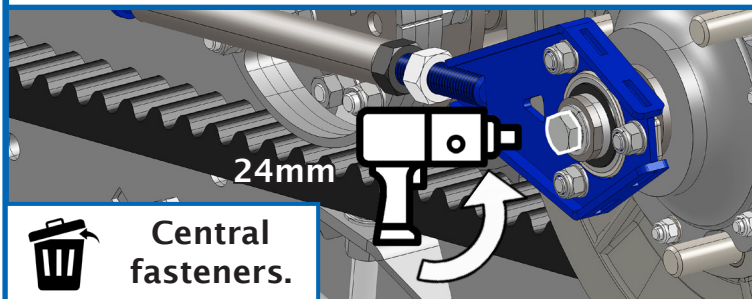
6. Loosen tie rod bearing grub screws (x2) on both front and rear pulleys.



7. Loosen tie rod bearing fasteners on both front and rear pulleys.

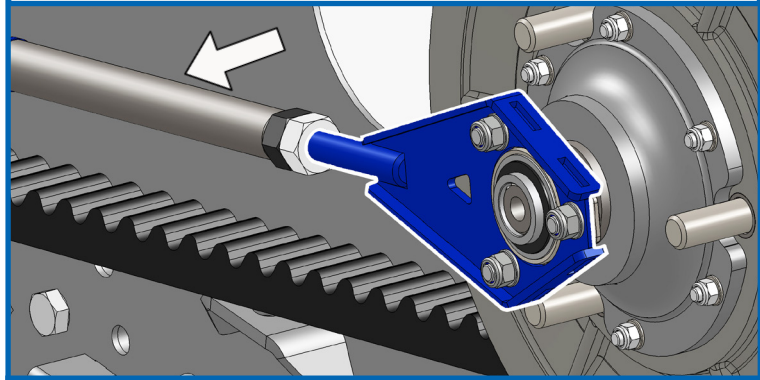


Remove central fasteners on the front and rear pulleys and discard.

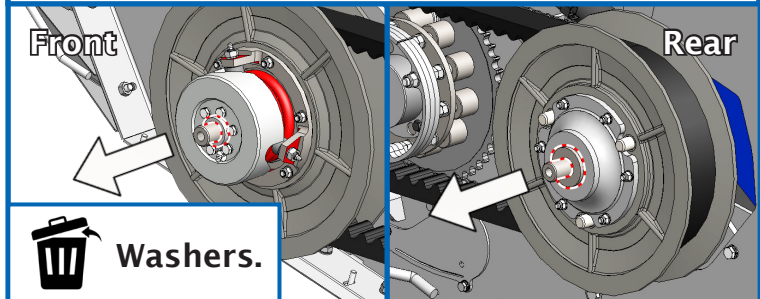


 Central fasteners.

8. Loosen tie rod bearing fasteners on both front and rear pulleys, and remove tie rod.

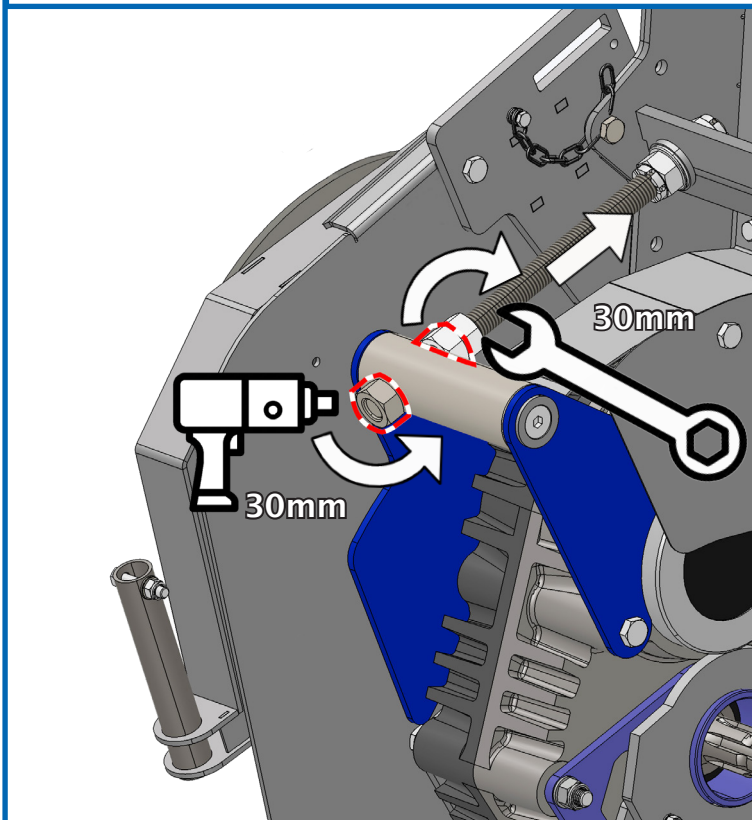


Remove washers from front and rear pulleys then discard.

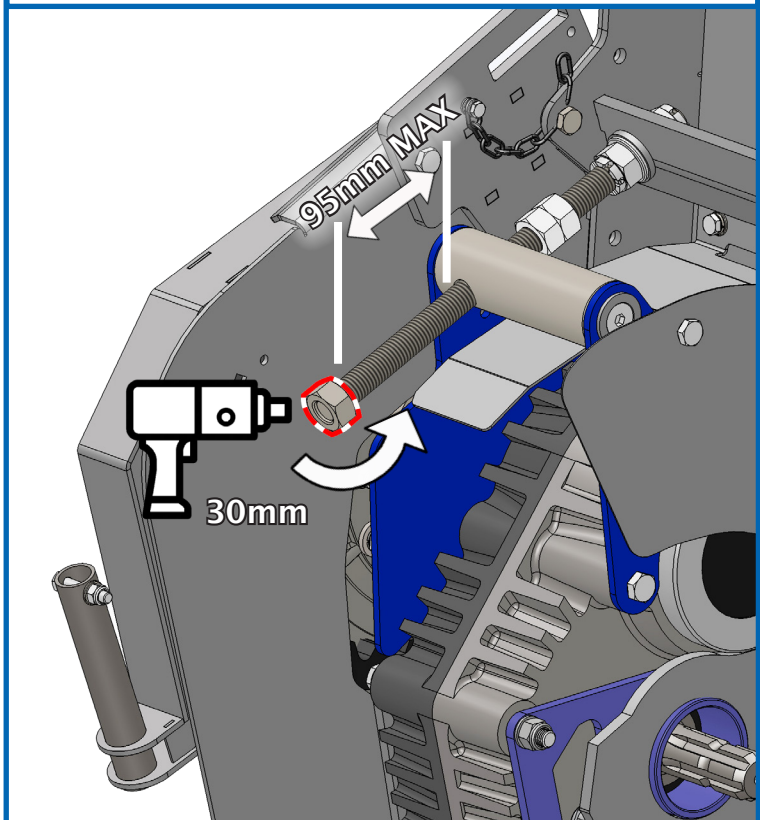


 Washers.

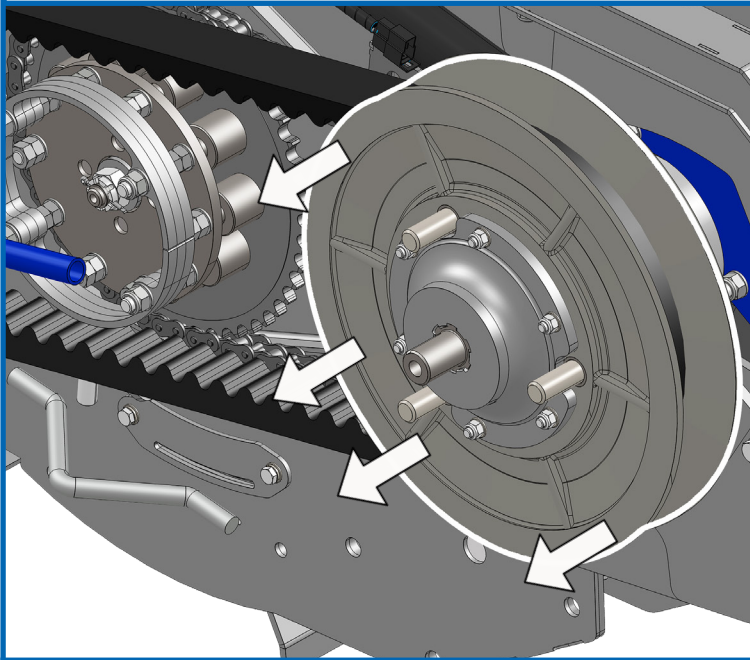
9. Loosen the gearbox adjuster locknuts.



10. Pivot the gearbox forward.

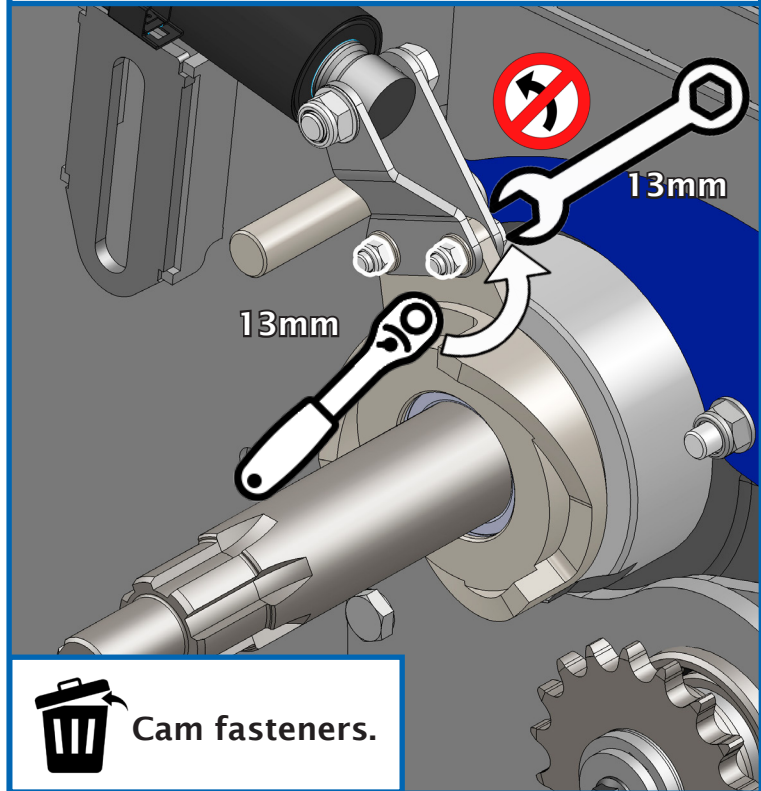


11. Remove the pulley assembly with belt.



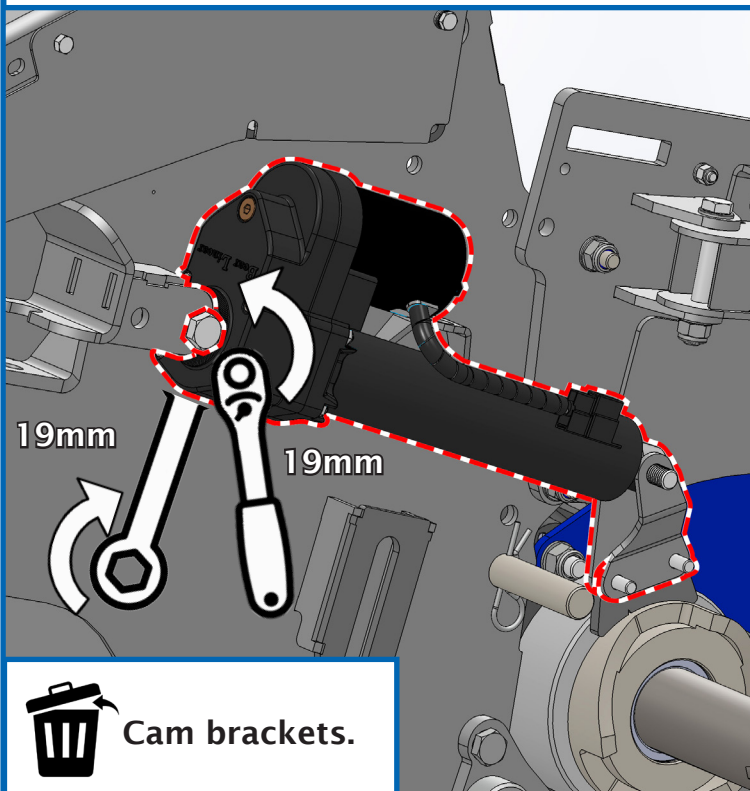
Take care when removing the pulleys from the shafts, as they weigh 40KG (88lbs).

12. Remove the cam bracket fasteners and discard.



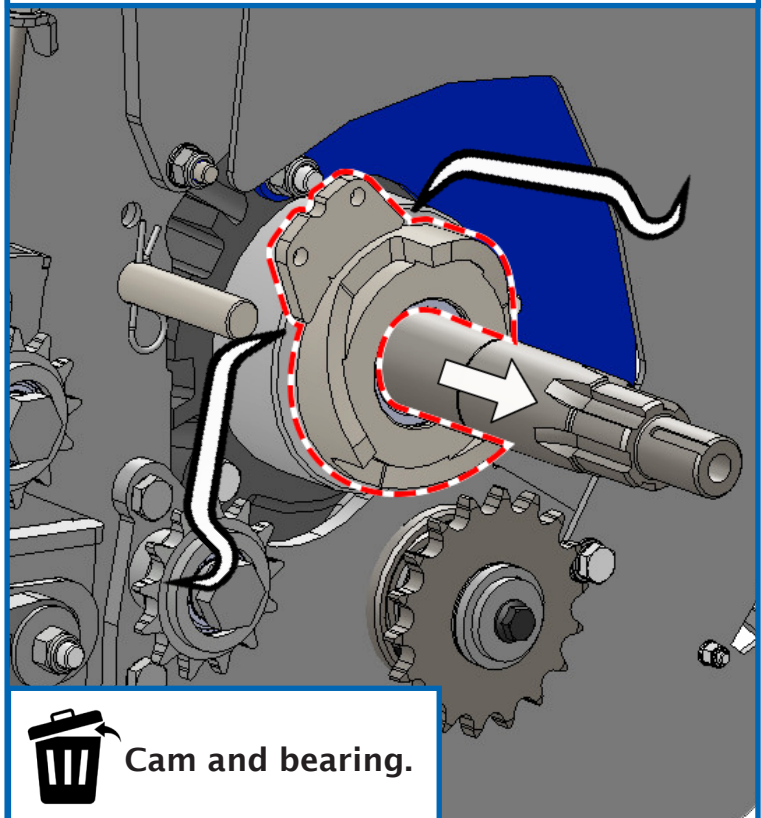
Cam fasteners.

13. Remove the electric actuator with cam brackets.



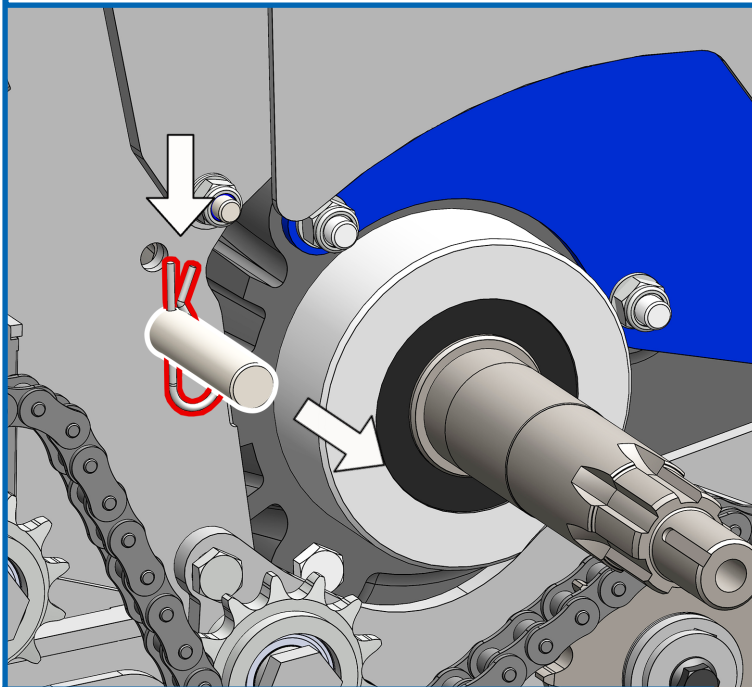
Cam brackets.

14. Pry off the cam and bearing.



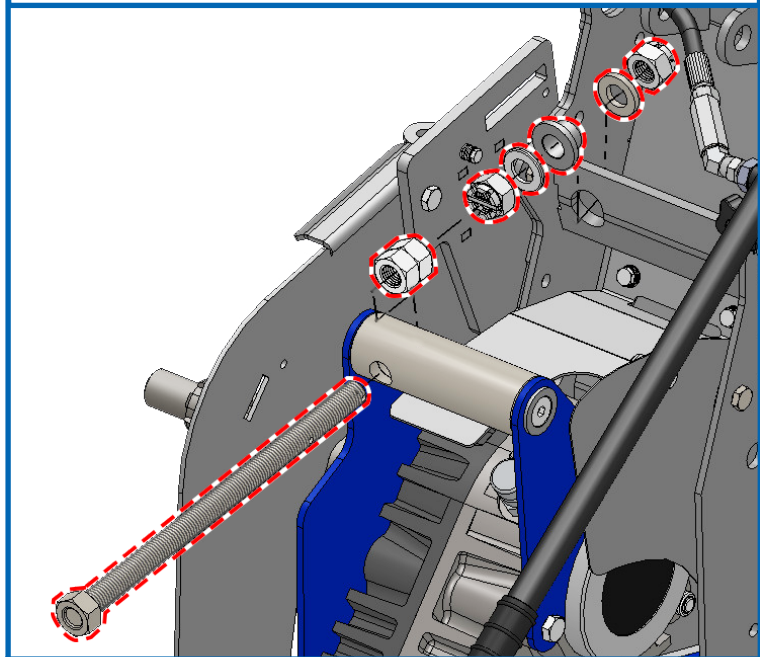
Cam and bearing.

15. Remove the 'R' clips and cam retaining bar.



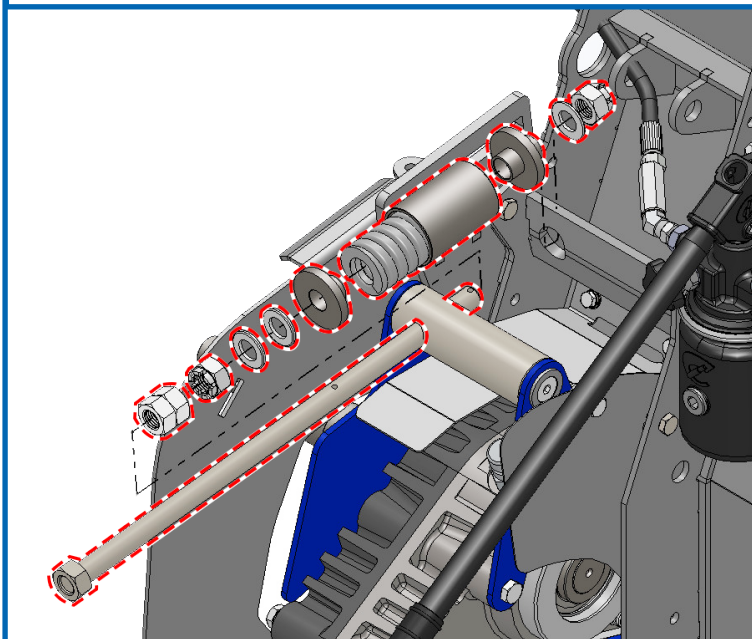
Cam retaining bar and 'R' clips.

16. Remove gearbox adjuster rod along with its associated fasteners.

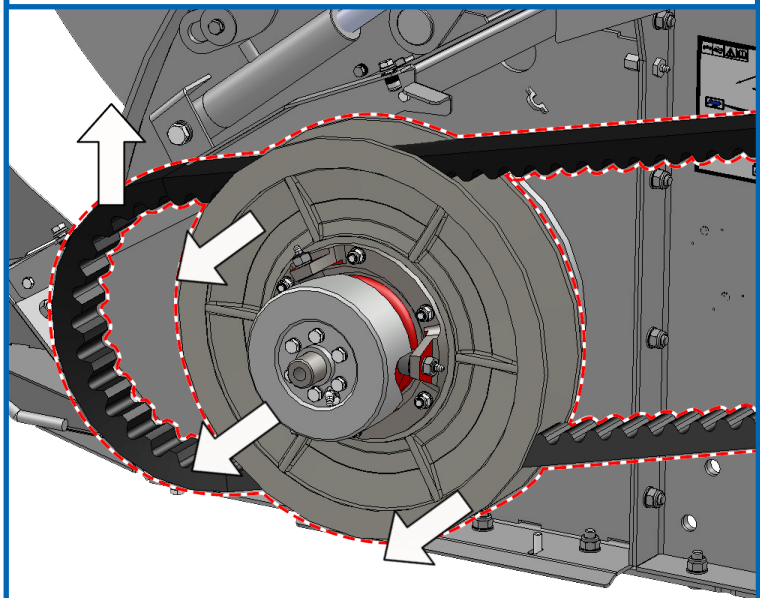


Gearbox adjuster rod & fasteners.

17. Add the new adjuster rod and fastenings. New roll pins need to be hammered through to lock the castle nuts. Once installed wind adjuster until the gearbox is in the forward position, this will assist in the belt installation in step 35.

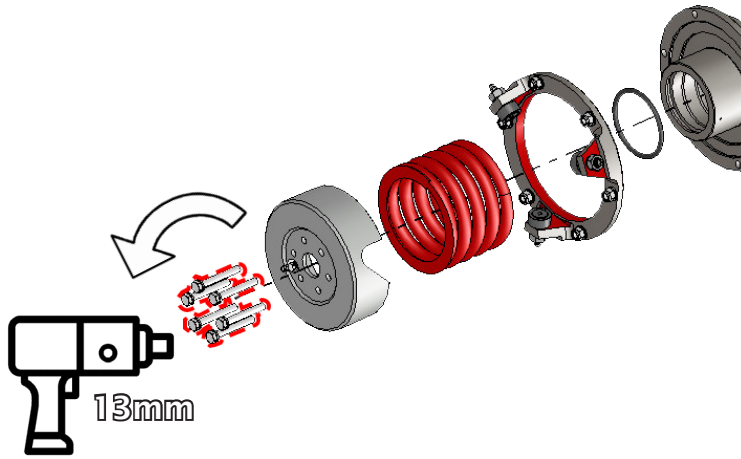


18. Remove the belt, then remove the front pulley.



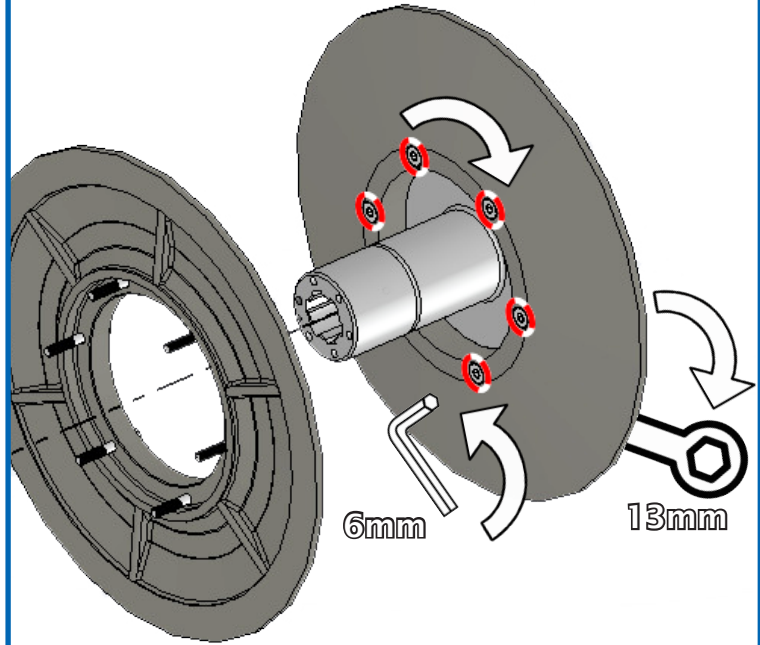
*Take care when removing the pulleys from the shafts, as they weigh 40KG (88lbs).*

19. Disassembled the front pulley. Loosen the 6 x M8 fasteners slowly together in rotation.

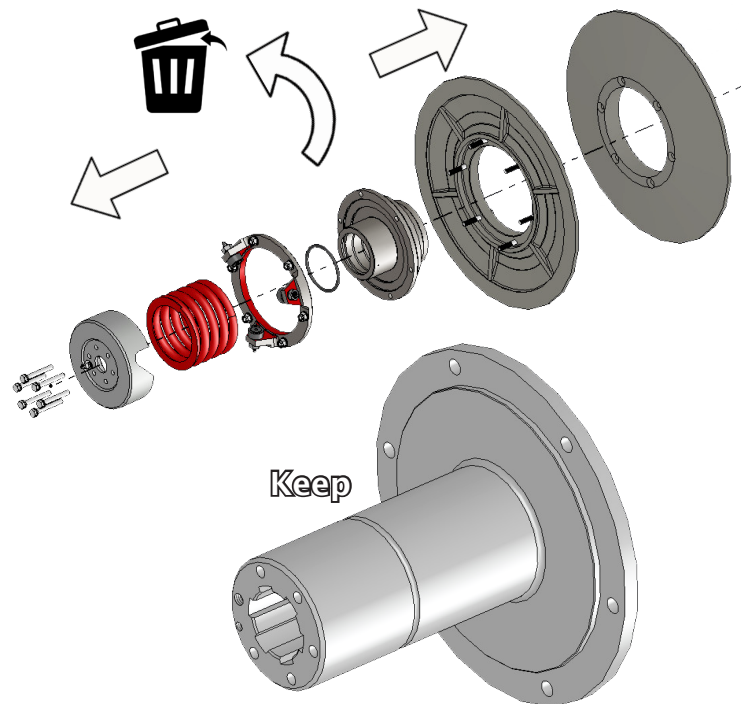


*Release the spring tension slowly, ensure not to have all the spring load on one bolt.*

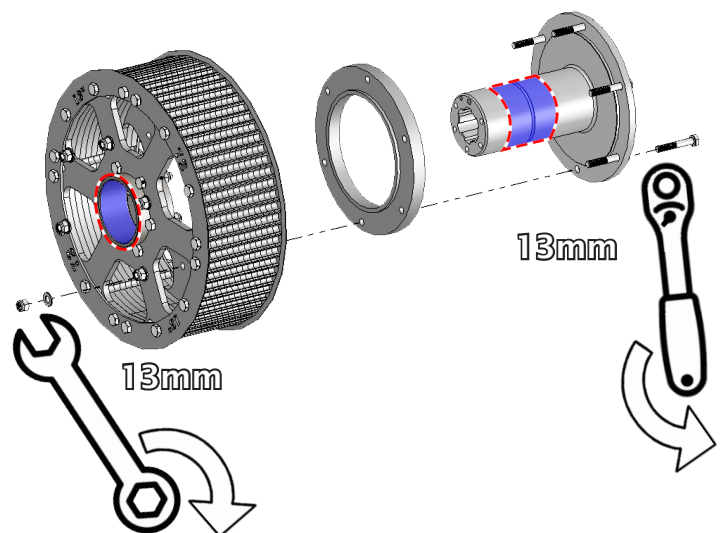
20. Separate the pulley and centre hub.



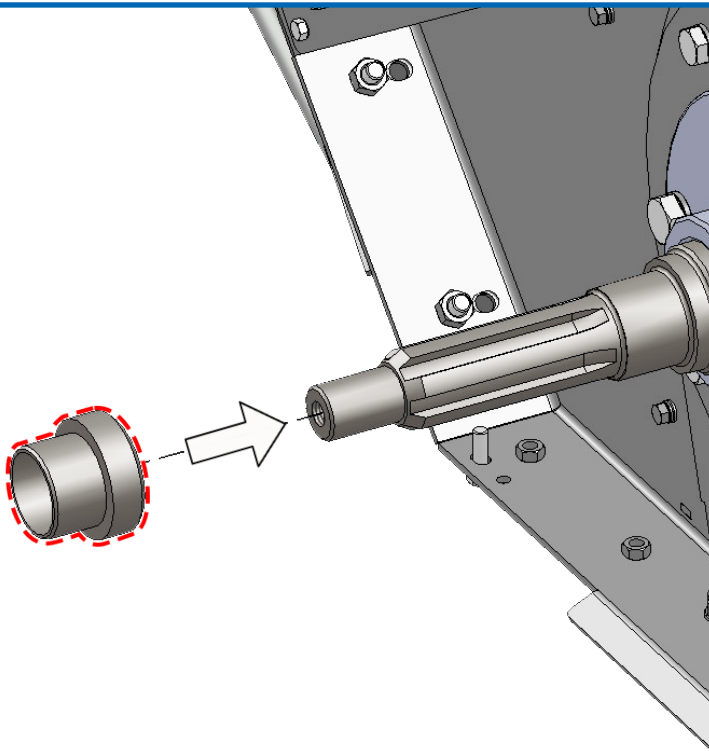
21. Keep the fixed hub for installation in the new pulley. All other components can be discarded.



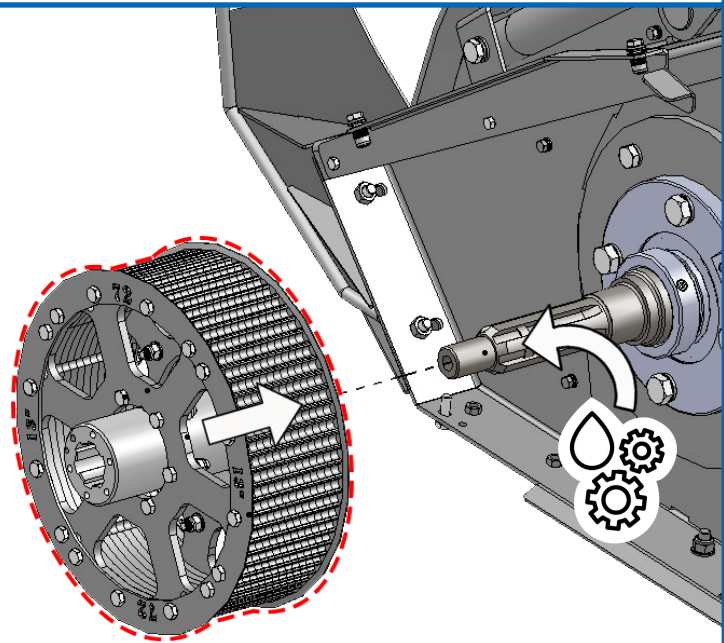
22. Check wear on pulley hub. Ensure fitment of laminate pulley onto hub (shaded region), has little to no side play <math><0.8\text{mm}</math> (1/32").




23. Upto 2013 machines only. Refit the boss (198701 01).

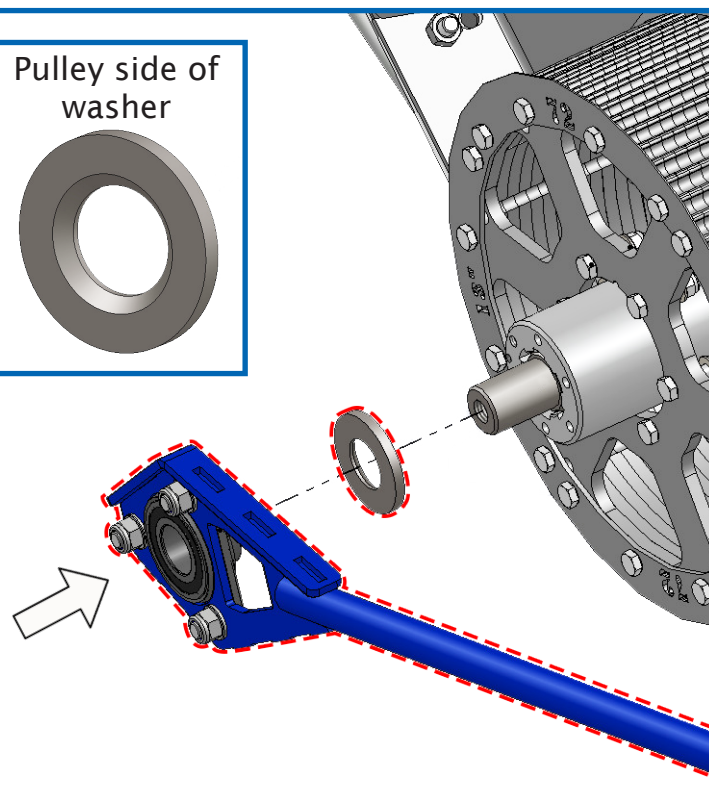


24. Grease the shaft using black grease and then push on the new front pulley.



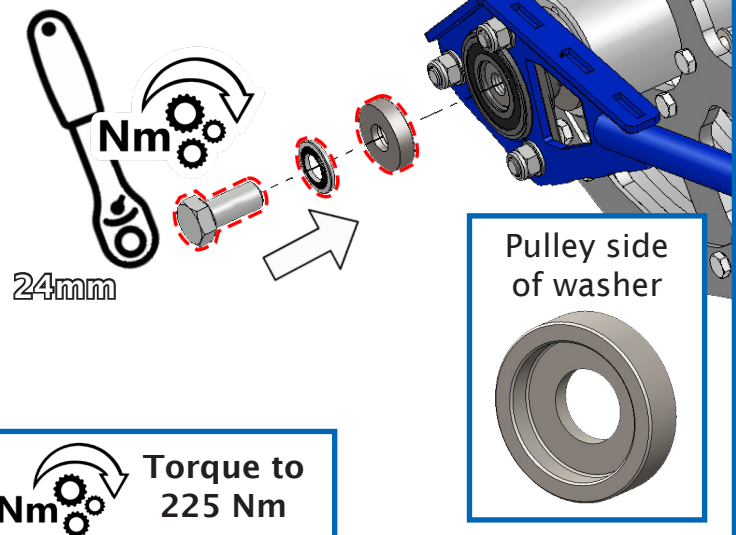
 Molybdenum grease (black grease).

25. Add the washer (293597 01) and half of the tie rod onto the shaft.



26. Fasten with the **NEW** M16 set screw and tighten to 225Nm (166lb-ft). The pulley should be held tight on the shaft, no end float of pulley on the shaft.

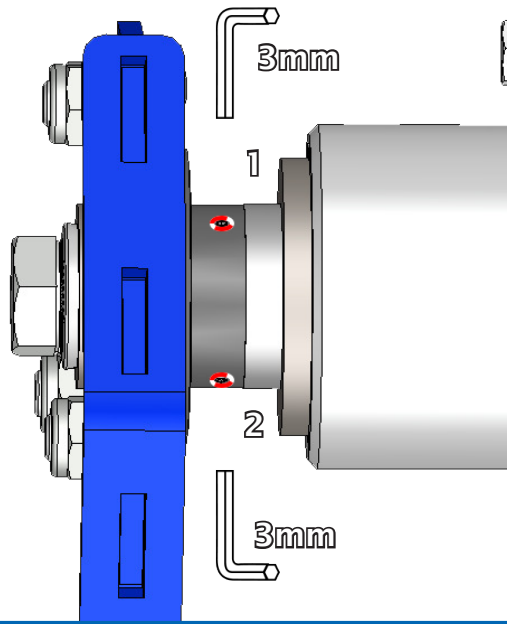
**Use new fasteners.**



 Torque to 225 Nm

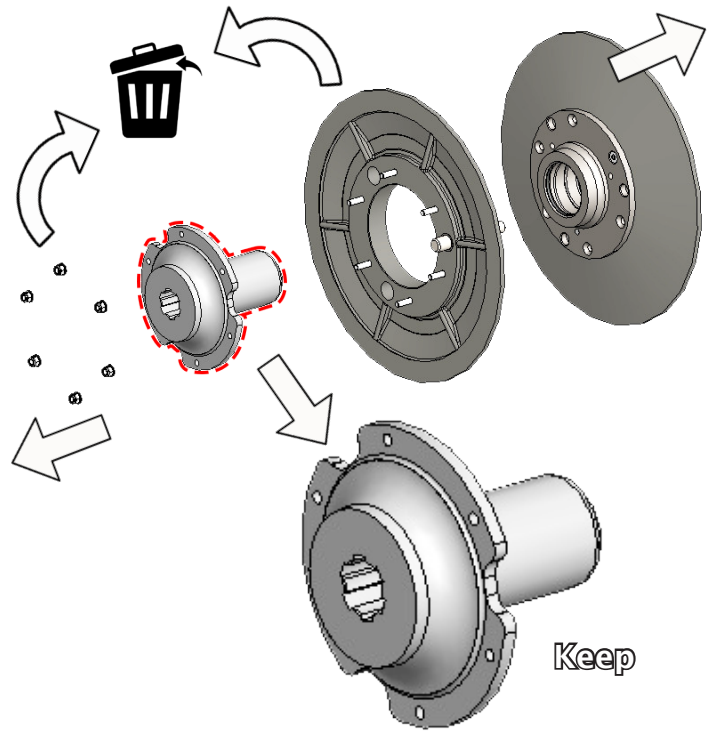


27. Apply thread lock and tighten the grub screws.

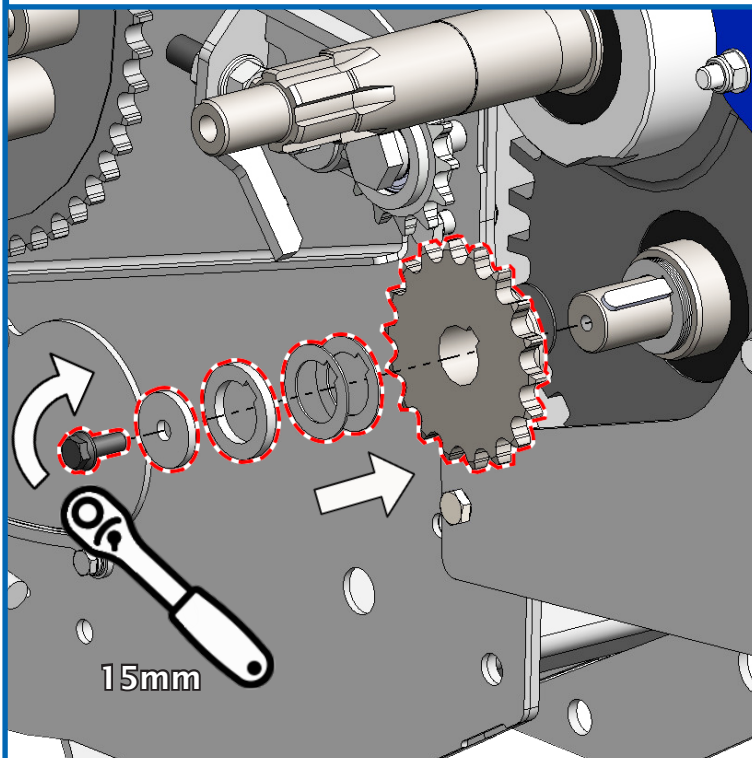


If the front shaft has a groove beneath the tie rod bearing you need to align one grub screw so it tightens into it.

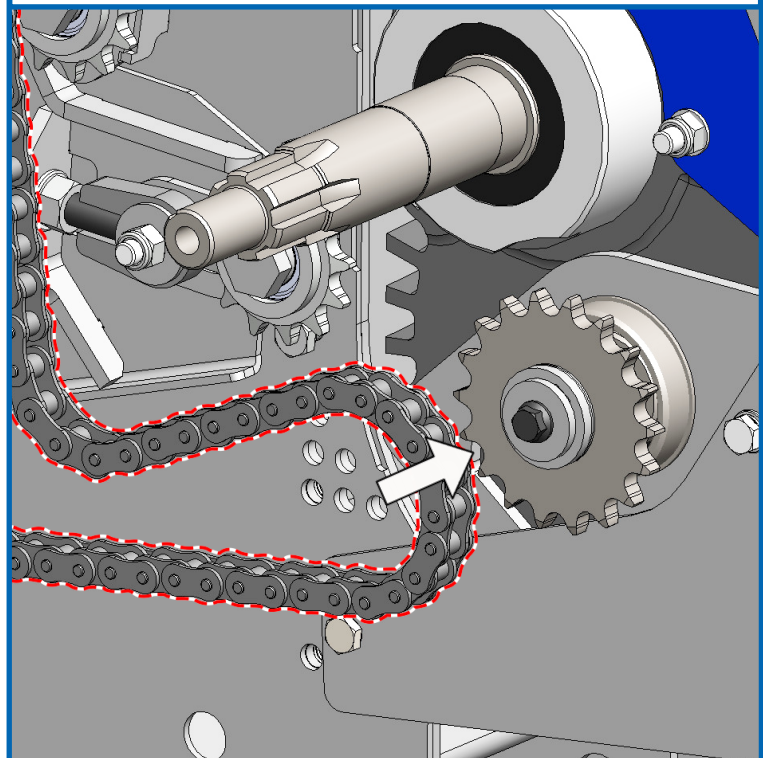
28. Disassemble the rear pulley, keep the centre hub but all other parts can be discarded.



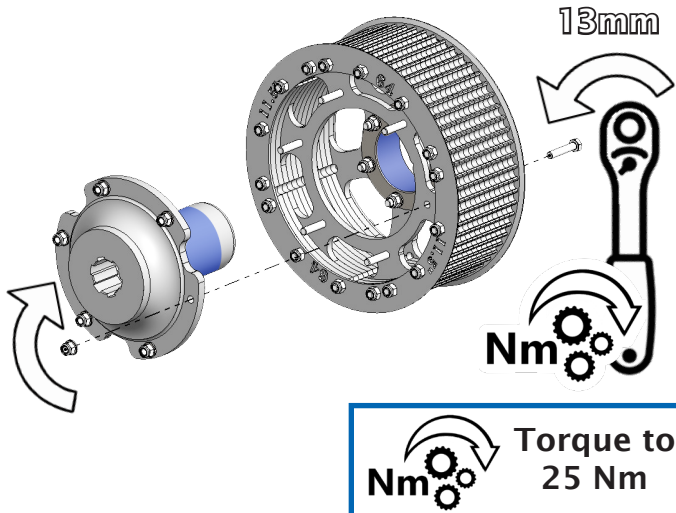
29. Remove the old sprocket and install the new one if provided with your kit, (KIT-19089, KIT-19091 and KIT-19094 only).



30. Refit the chain and tension accordingly. The chain length may need to be adjusted to suit the new sprocket size.

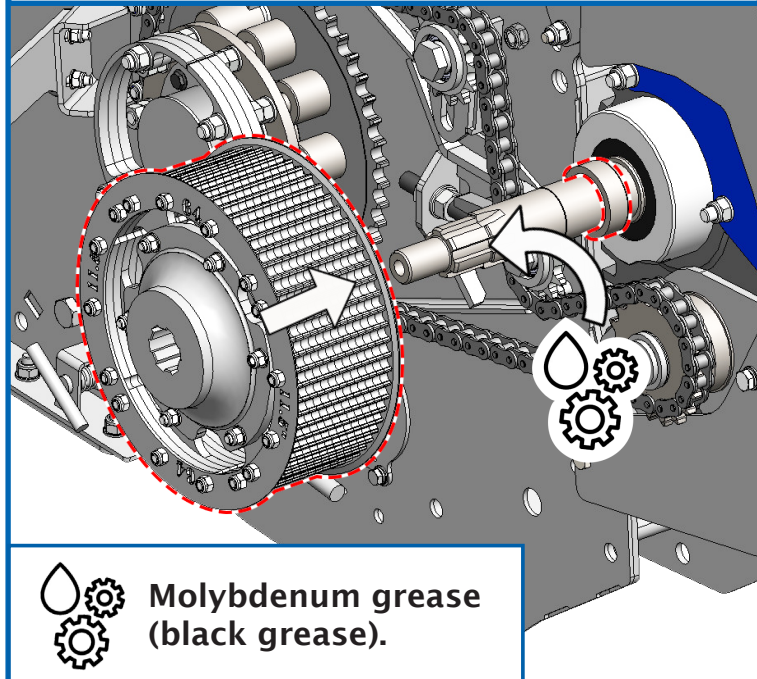


31. Fit the old pulley hub to the new rear laminate pulley. Use M8 bolts and tighten to torque 25Nm (18lbf.ft). Check there is little side play from wear on the old pulley hub in the region highlighted.

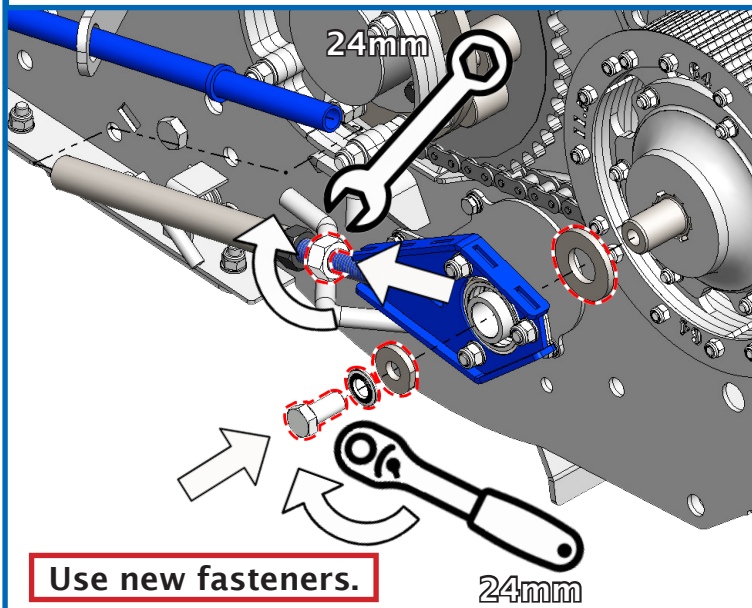


Refer to the speed chart to determine what pulley size to install on the front hub, change the sprocket if needed.

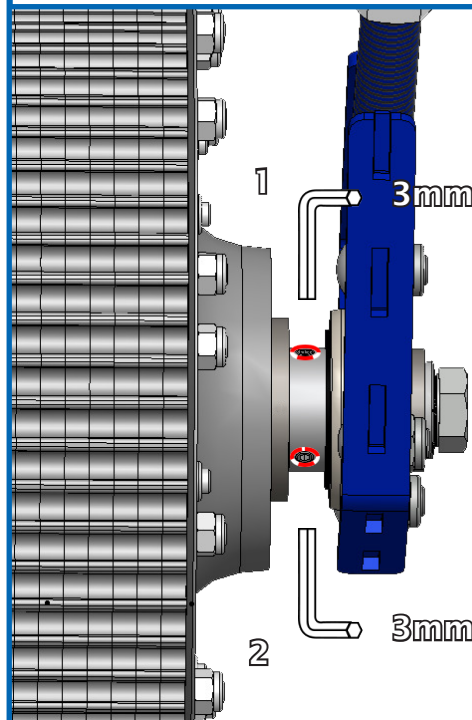
32. Grease the gearbox shaft with black grease then add the spacer ring (292586 01) to the shaft. It should seat on the shoulder of the shaft when the laminate pulley is fitted. Push on laminate pulley.



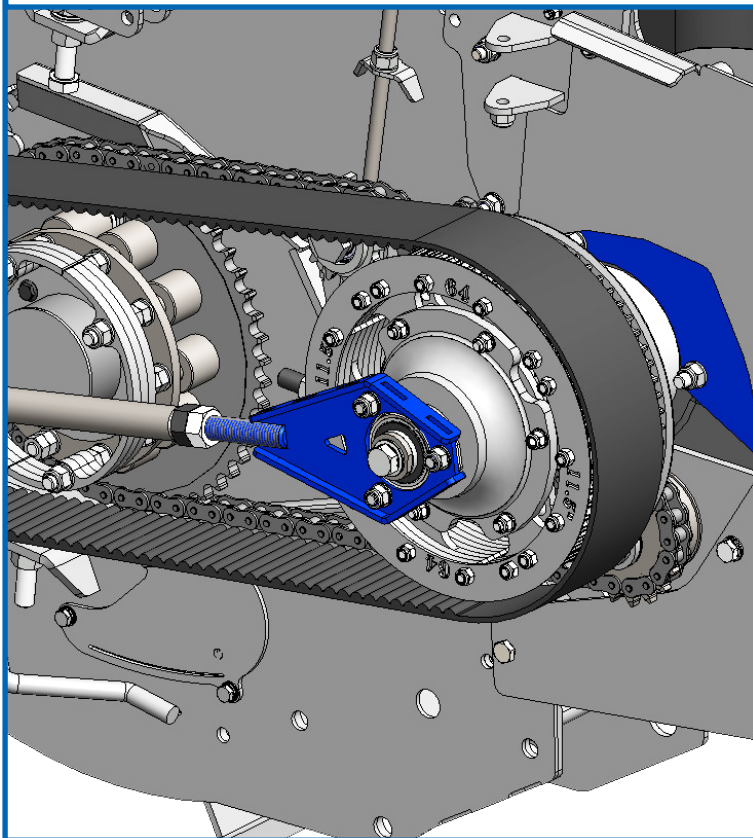
33. Fit the tie rod together and then place the tie rod bearing onto the gearbox shaft. Fit the washers and secure with the NEW M16 bolt. Tighten to then locate the spacer ring to the shoulder. Once the set screw is tightened, there should be zero end float of the pulley on the shaft.



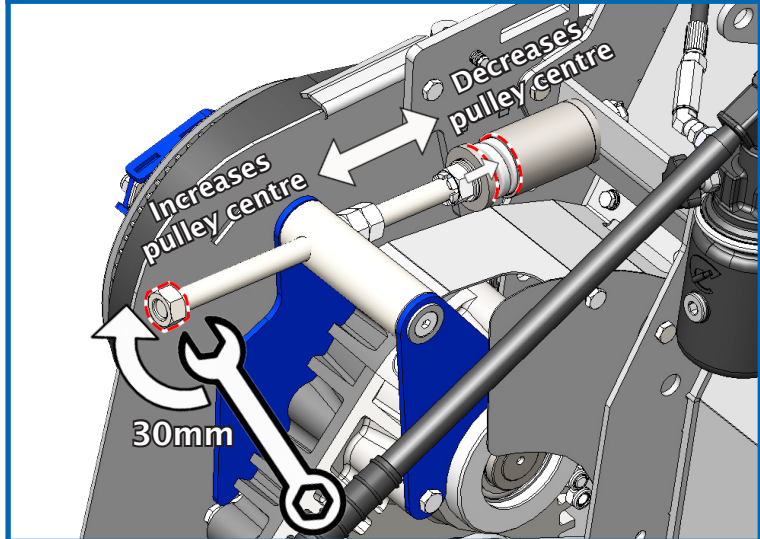
34. Apply threadlocker to the grub screws of the bearing and tighten. If the shaft has a groove in it make sure to align with one of the grub screws and tighten into it.



35. Fit the new HTD toothed belt.

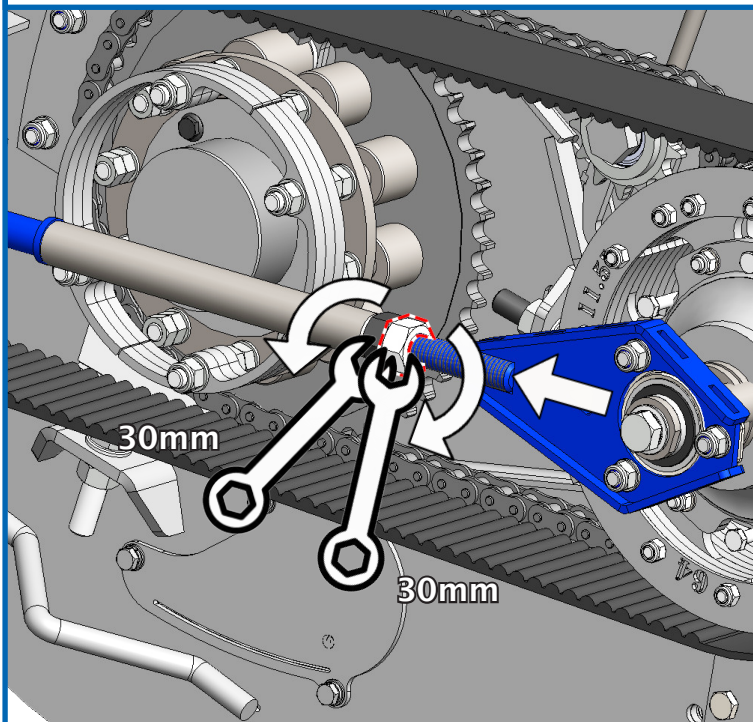


36. Adjust the gearbox pivot to tension the belt. The tension of the HTD drive belt is indicated by the spacer tube which fits over the spring on the gearbox adjuster.



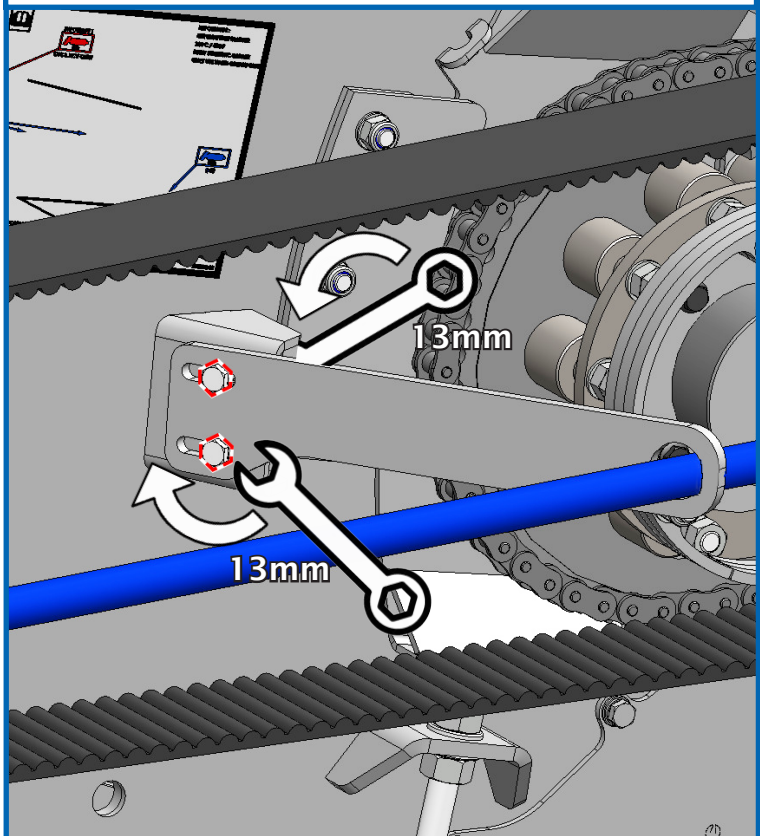
The belt should be tensioned so that the spring is compressed to the same length as the spacer tube. It should still be possible to rotate the spacer tube.

37. Reset the tie rod and tighten the lock nut.

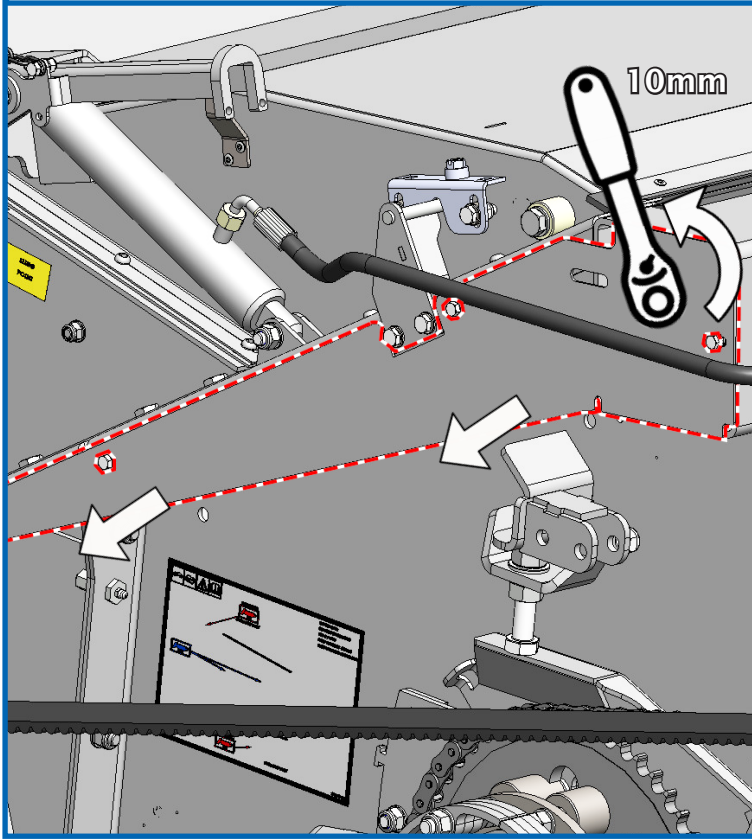


Tighten by hand until taugt, then turn an extra 1/6 of a turn and tighten the lock nut.

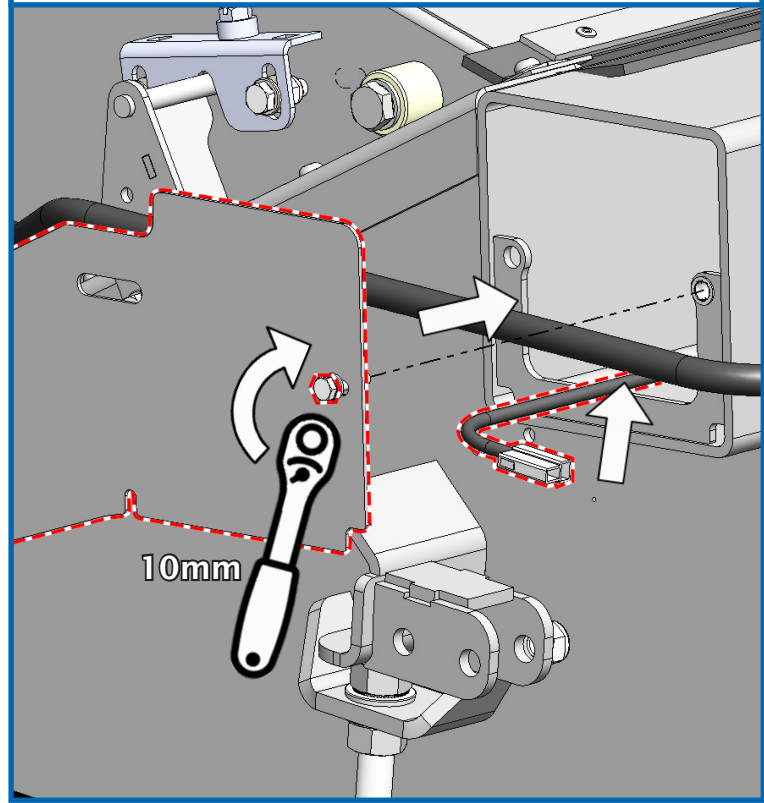
38. Fasten the tie rod bracket.



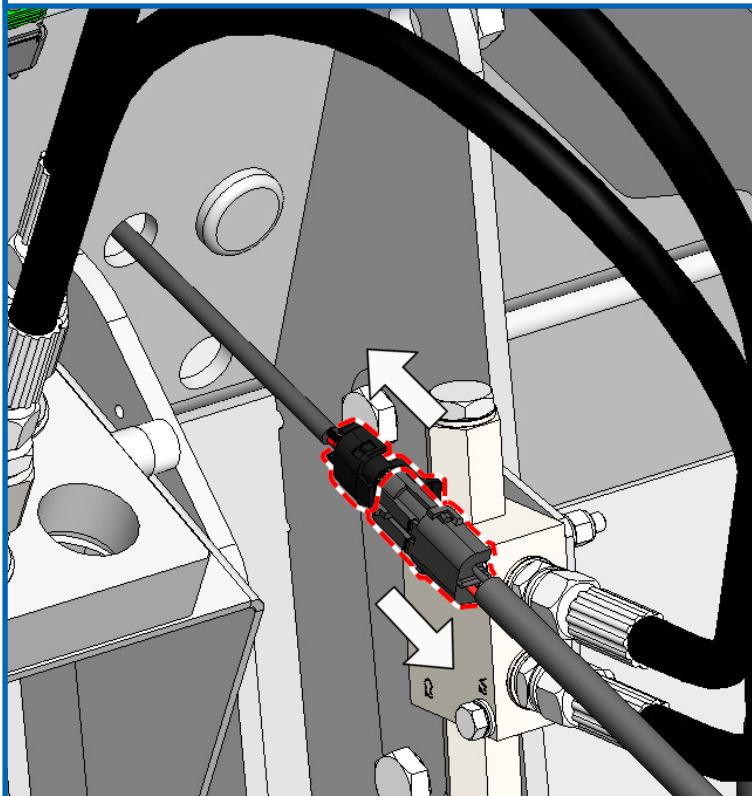
39. Remove the M6 fasteners and cover plate.



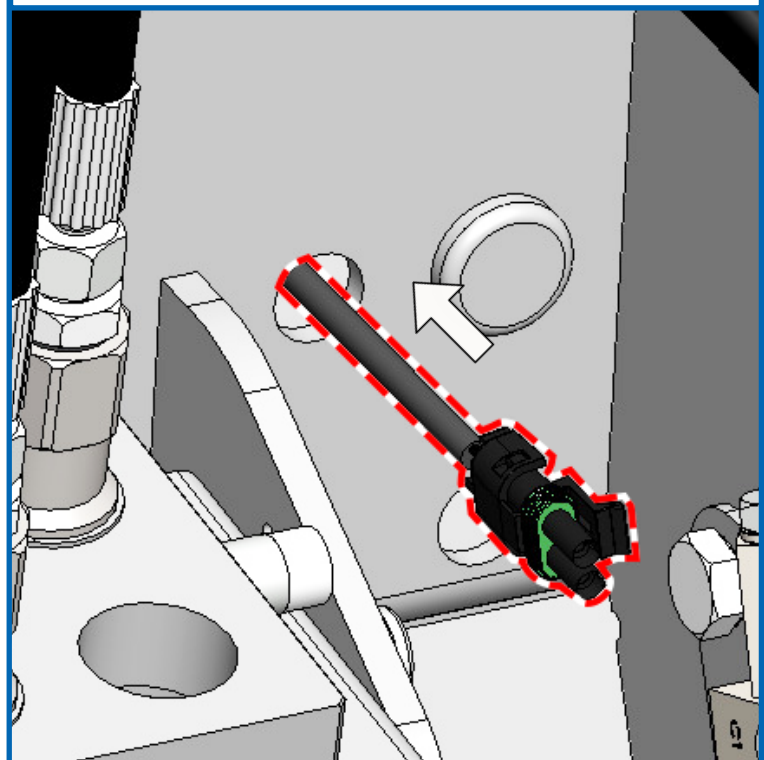
40. Tie up the actuator cable and feed into the top beam then reattach the cover plate.

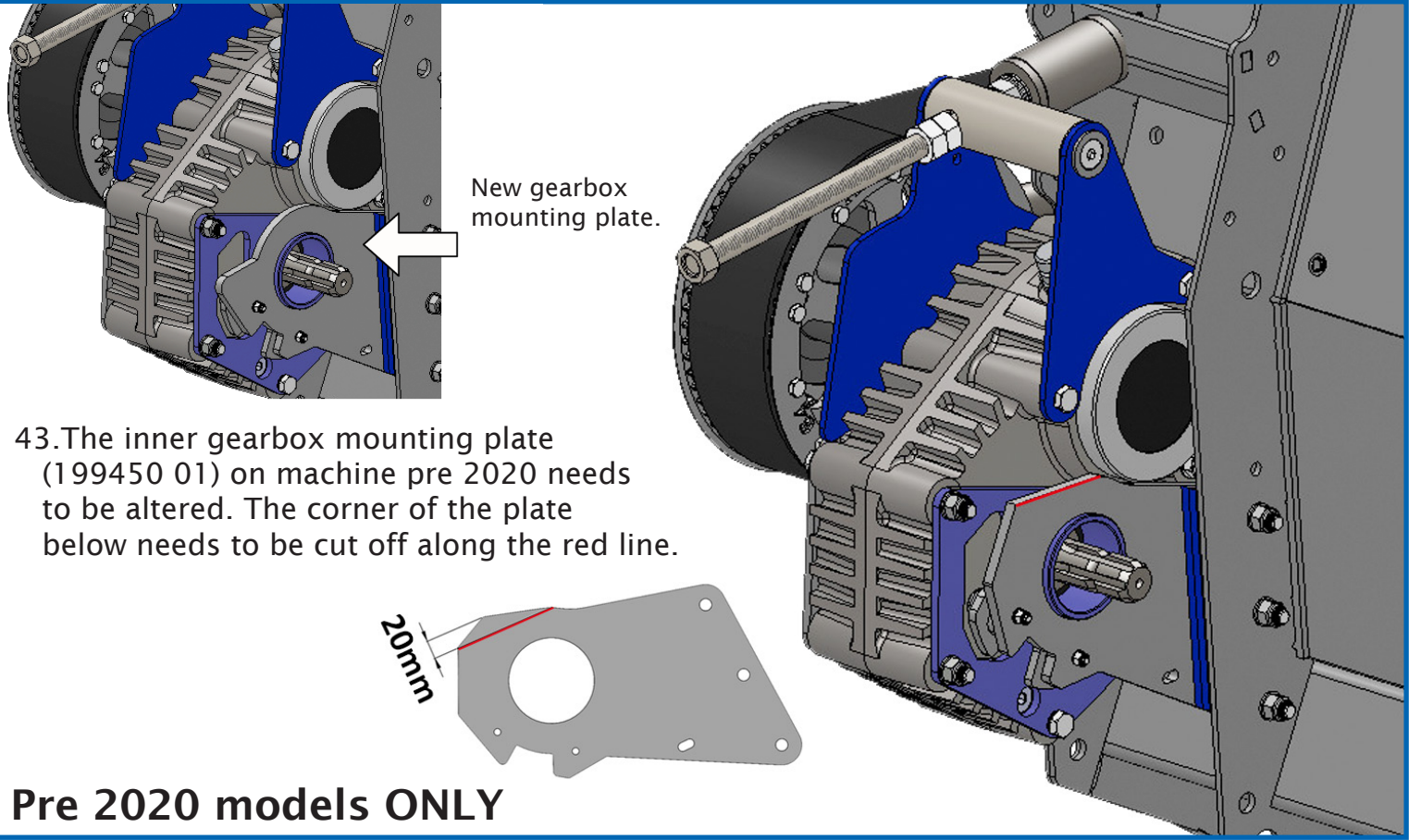


41. At the feeder house, disconnect the 2-pin actuator plug only.

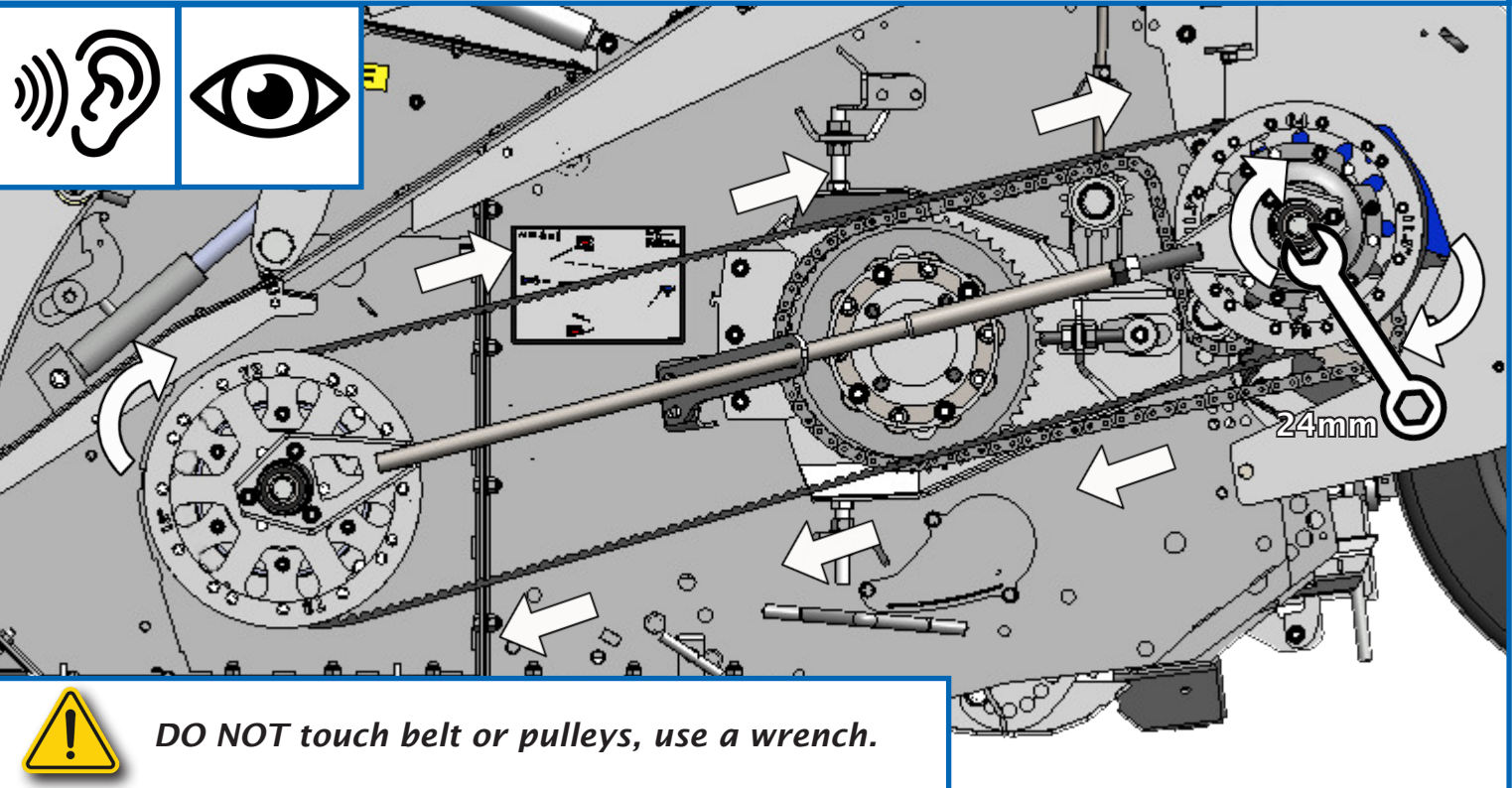


42. Feed the cable back into the header and cable tie in a secure position. No longer required for header attachment to combine.

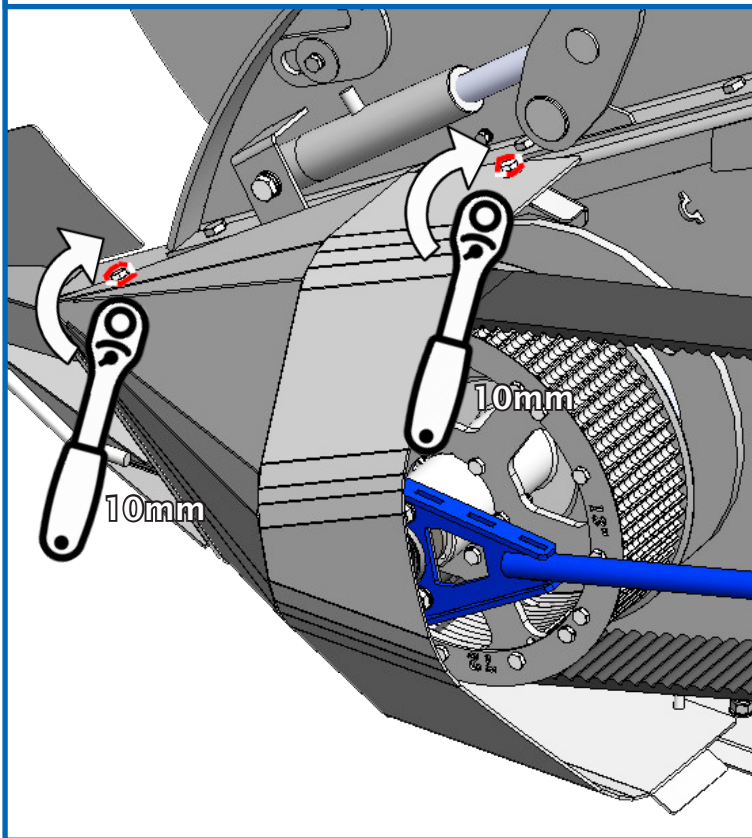




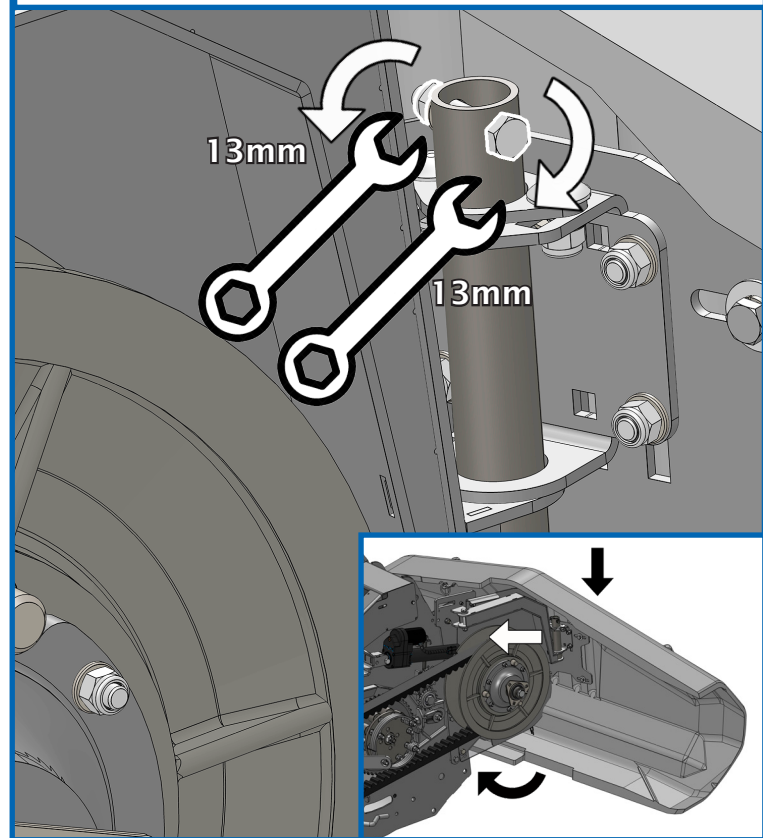
44. Turn over the belt manually using a wrench. Rotate the drive to ensure no components are catching.



45. Fit front steel nose cone with 4 bolts.



46. Refit the guard.



Speed range decal. Use this as a guide for the speed ranges you are looking to achieve.

**DO NOT RUN  
AUGER OVER  
200 rpm**

SPEED SELECTION CHART LAMINATE PULLEYS					
		JOHN DEERE	CASE IH	AGCO	CLAAS
COMBINE DRIVE SHAFT SPEED (rpm)		500-680	500-670	630-850	540-740
AUGER SPEED RANGE (rpm)		150-200	150-200	150-200	140-190
ROTOR PULLEY	INPUT PULLEY	APPROXIMATE ROTOR SPEED (rpm)			
Ø 13"/72T	Ø 10"/56T	450-610	400-530	500-680	390-530
Ø 13"/72T	Ø 11.5"/64T	510-700	460-610	570-780	440-600
Ø 11.5"/64T	Ø 11.5"/64T	580-790	510-690	650-870	500-680
Ø 11.5"/64T	Ø 13"/72T	650-880	580-770	730-980	560-760
Ø 10"/56T	Ø 13"/72T	740-1000	660-890	830-1000	630-870

293182 01