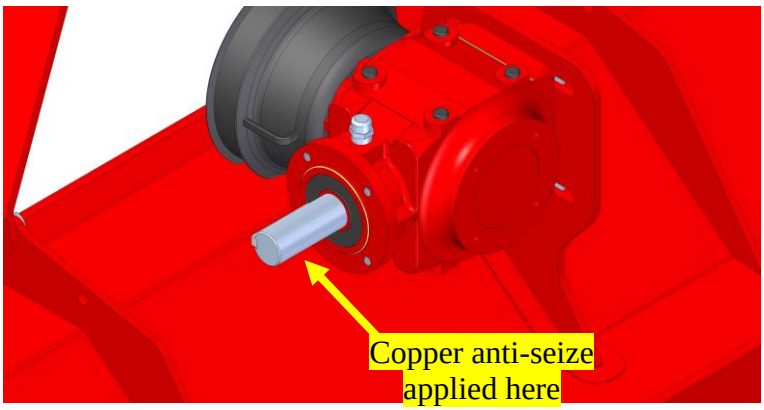
trimax MOWING SYSTEMS	SPARE PARTS INSTRUCTIONS #18
Date Created: 17/05/2016	**Product:** Ezeemow S2 / FX
Title: Extension Shaft Replacement	

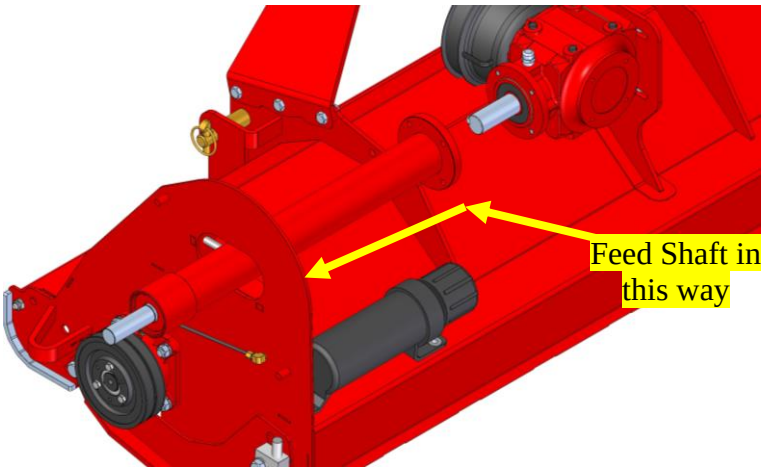
SAFETY! Before attempting to make any adjustments or carry out maintenance on the mower, review the hazard identification table (section 3a of your Operator Manual) and take all necessary precautions.



After disassembly, visually inspect the Output Shaft of the Gearbox for signs of excessive wear or damage.

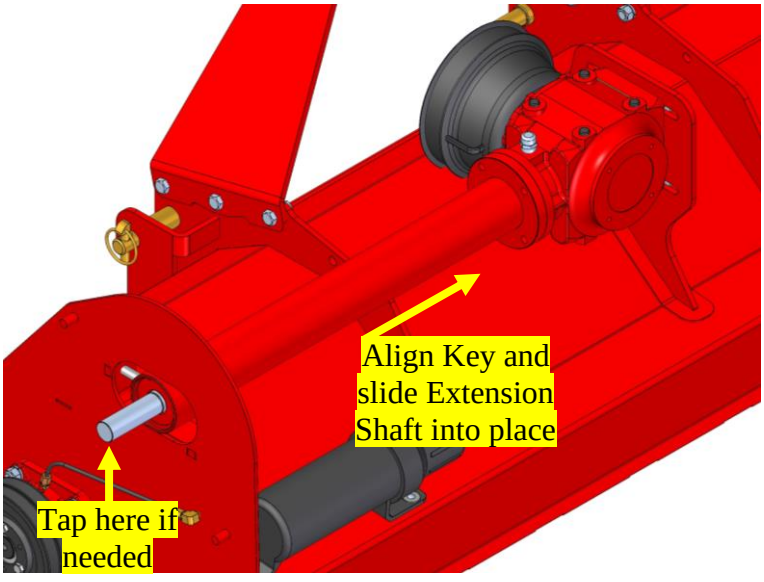
If present, the Output Shaft and/or Gearbox Key may need replacing.

If deemed acceptable, apply a coating of copper anti-seize to the Output Shaft of the Gearbox.



Offer up the new Extension Shaft.

Feed the Shaft End of the Extension Shaft through the large hole in the Drive End Endplate as shown.

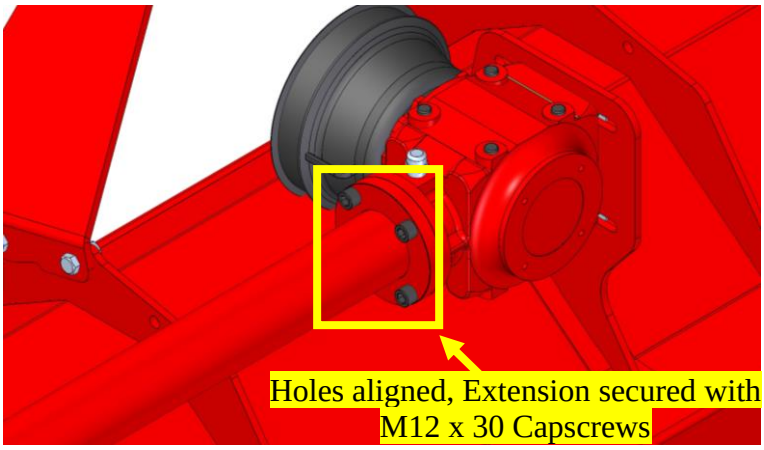


Align the Keyway in the Flanged end of the Extension Shaft with the Key fitted to the Gearbox Output Shaft.

Slide the Extension Shaft onto the Gearbox Output Shaft.

If required, GENTLY tap home with a Soft Faced Hammer until fully seated against the Gearbox.

Note:
Only tap the Shaft End of the Extension Shaft, otherwise the Extension Bearings can be damaged during installation!

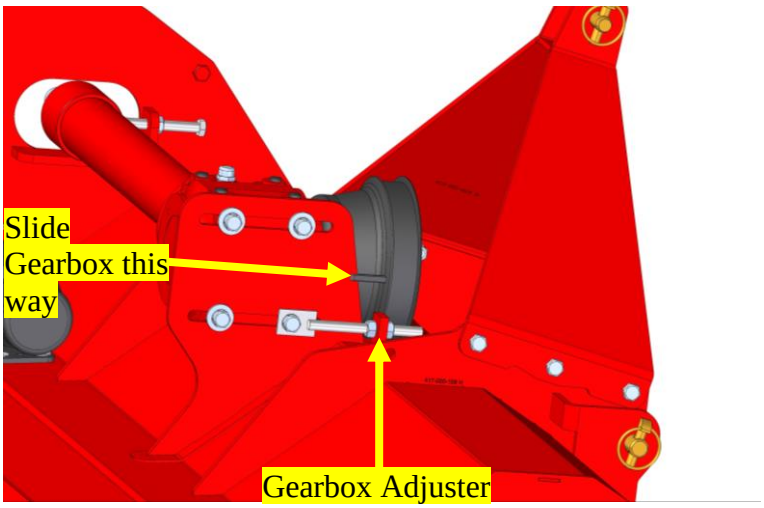


Align the mounting holes in the Extension Shaft with the tapped holes in the Gearbox.

Secure the Extension in place using four M12 x 30 Capscrews.

A medium strength thread locker **MUST** be used on the threads of the Capscrews.

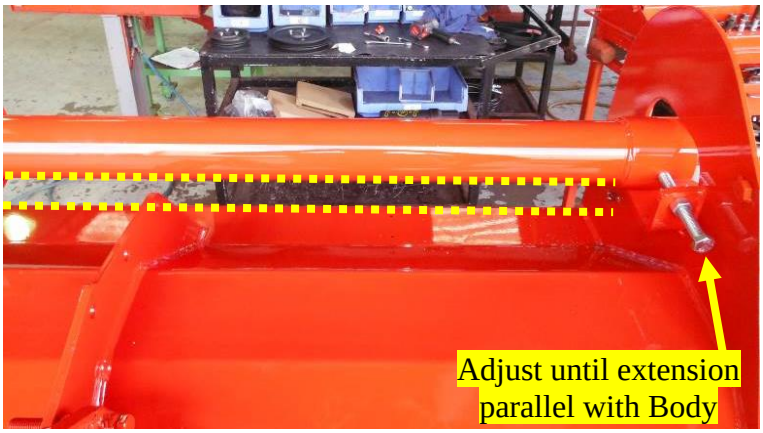
Fully Tighten.



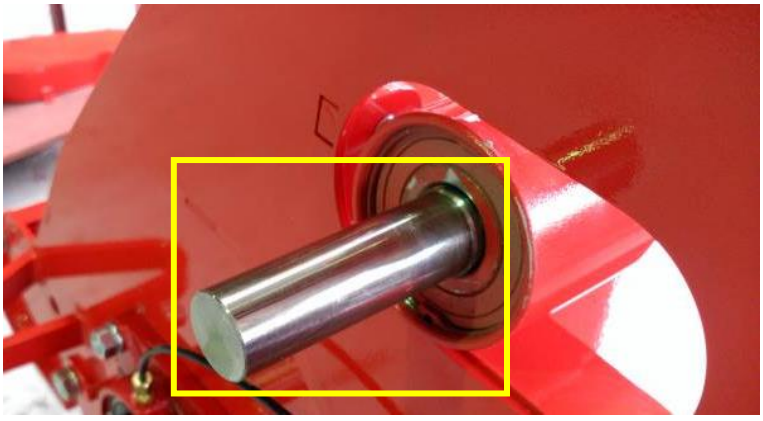
Slacken the four M12 Gearbox mounting bolts and the two M12 Plain Nuts on the Gearbox Adjuster.

Slide the Gearbox Assembly towards the Headstock until it reaches the end of the Slots.

Nip up two of the Gearbox mounting bolts until the Gearbox is pulled up **HARD** against the Gearbox Mount.

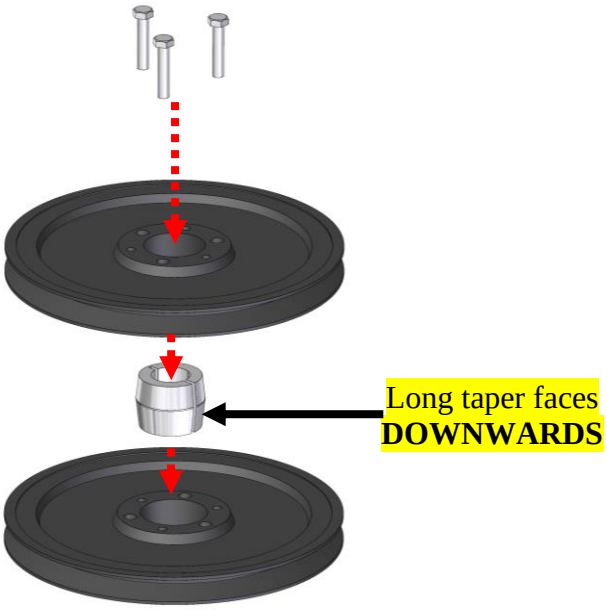


Adjust the Extension Adjuster Set Screw until the Extension Shaft is parallel with the body.



Clean the Extension Shaft and Rotor Stub with White Spirits and a Clean Rag.

Note:
This is to remove the anti-corrosion coating that is present on new extension shafts!



Clean **ALL** extension Pulley components with White Spirits and a Clean Rag.

Assemble the Extension Pulley with a 28mm Biloc Bush and three M8 x 40 Bolts.

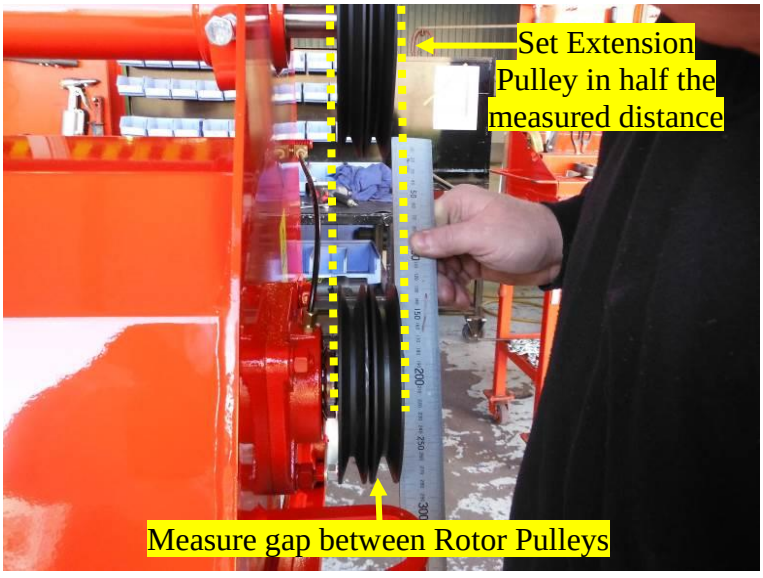
Leave the Bolts loose at this stage.

Note:
The **LONG** taper side of the Biloc Bush is facing **DOWNWARDS** as shown opposite.

Gently drive the Extension Pulley Assembly onto the Extension Shaft.

Roughly align the Extension Pulley with the Rotor Pulley.

Note:
A Piece of tube that fits onto the Biloc Bush is an ideal Drift for this job.



Measure the gap between the Rotor Pulleys.

Run a Straight Edge from the Rotor Pulley to the Extension Pulley Assembly.

Set the Extension Pulley Assembly in from the straight edge - half the size of the Rotor Pulley gap.

Note:
This is to ensure that the Extension Pulley is centralized with the Rotor Pulley!

Tighten the M8 x 40 bolts alternately and gradually.

Note:
Ensure the gap between the pulleys is consistent around the **ENTIRE** Pulley!

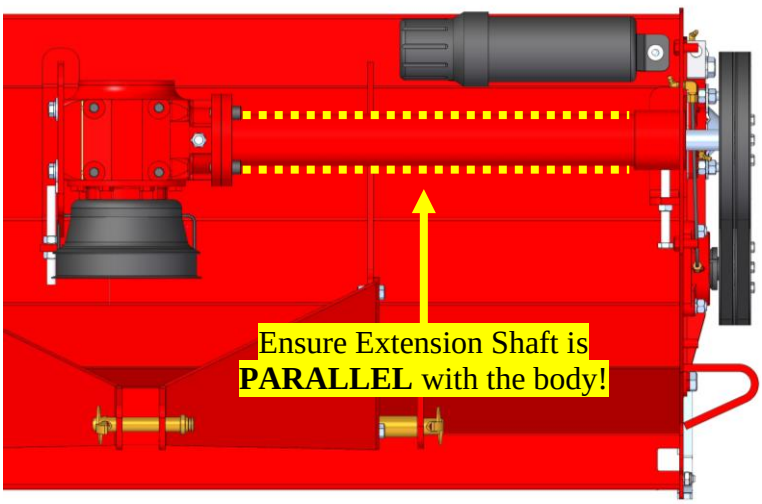
Torque the Extension Pulley Bolts to **25Nm.**

Tap the Pulley in between the Bolt Heads with a Hammer

Re-torque the Extension Pulley Bolts to **25Nm.**

This ensures that the Pulleys are properly secured to the Extension Shaft.

Note:
Hold the Extension Pulley whilst torqueing to prevent the Pulleys from rotating. A belt wrapped around the Pulley can be used to assist in keeping the Pulley Stationary.



When tensioning the Drive Belts, set the Extension Adjuster until the desired belt tension is achieved, then adjust the Gearbox position to bring the Extension Shaft back **PARALELL** with the Body.

Check the belt tension, re-adjust if necessary. Once the desired tension is achieved, lock the Gearbox and extension Adjuster in place to secure, then re-fit the Belt Guard.

IMPORTANT:
When tensioning the Belts, the Extension Shaft **MUST** run **PARALLEL** with the Body otherwise excessive wear or damage may occur when the machine is in use!

trimax MOWING SYSTEMS

This Fitment process is now complete