

Date Created: 14/02/2017

Product: Flaildek/Ezeemow/Warlord

Title: Rotor Bearing Fitment



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.

REQUIRED SHIM THICKNESS

- Flaildek Series 1, 2 FX mowers:
0.35 - 0.4mm (0.014 - 0.016") thick

-Ezeemow Series 2 and FX mowers:
0.35 - 0.4mm (0.014 - 0.016") thick

- Warlord Series 1, 2 and 3 mowers:
0.45 - 0.5mm (0.018 - 0.020") thick.



IMPORTANT:

Two strips of shim material are required for this operation.
These should be a little longer than one side of the square rotor bearing housing and about 10-15mm (3/8 - 5/8") wide.



A Flaildek is shown throughout this procedure.

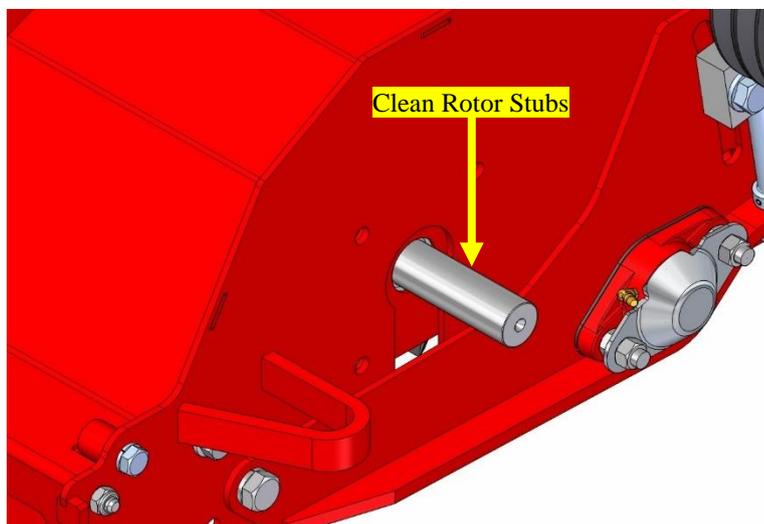
The general process shown in this procedure also applies to Ezeemow and Warlord.



Note:

Take note of the original fastener, pulley and grease fitting positions **BEFORE** disassembly as these will differ between models!

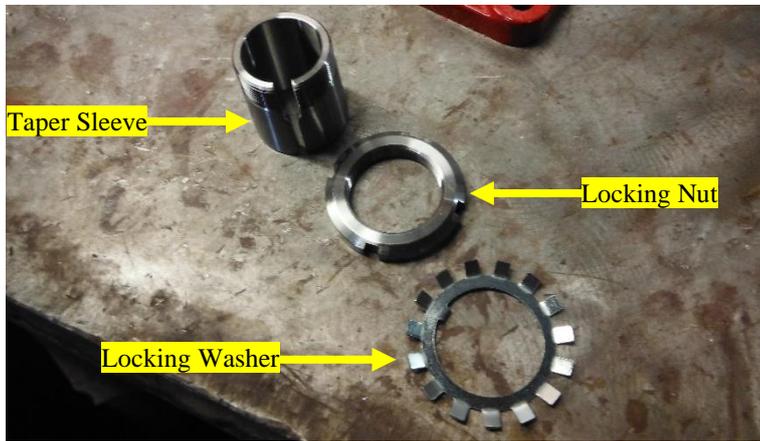
See your Spare Parts Listing for detail.



Once the previous Rotor Bearings have been removed from the mower, clean the Rotor Shafts with White Spirits to remove contaminants.

Use fine abrasive tape or sandpaper to carefully remove any corrosion from the Rotor Shafts.

One shown.



Separate out the Taper Sleeve Assembly as shown.

Apply Copper Anti-Seize to the **THREADS** of the Taper Sleeve.

Apply Copper Anti-Seize to the **BEVELLED** face of the Locking Nut.



Insert the Taper Sleeve, thread first, into the **REAR** of the Rotor Bearing as shown.



Fit the Locking Washer over the Taper Sleeve as shown.

Align the Inner Tab with the slot in the Taper Sleeve.

The Outer Tabs **MUST** face away from the Rotor Bearing as shown.

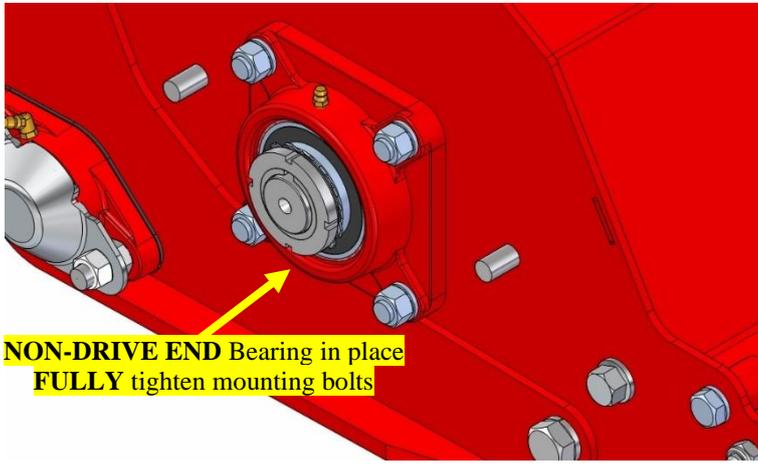


Fit the Locking Nut to the Taper Sleeve.

The Bevelled face of the Locking Nut **MUST** face **TOWARDS** the Rotor Bearing.

Wind the Locking Nut on a few turns. **DO NOT TIGHTEN!**

Repeat the above Bearing fitment process for the second Rotor Bearing Assembly.



Mount the **NON-DRIVE END** bearing housing. Make sure the grease point is facing in the right direction before fitting the mounting bolts.

FULLY TIGHTEN THE MOUNTING BOLTS.

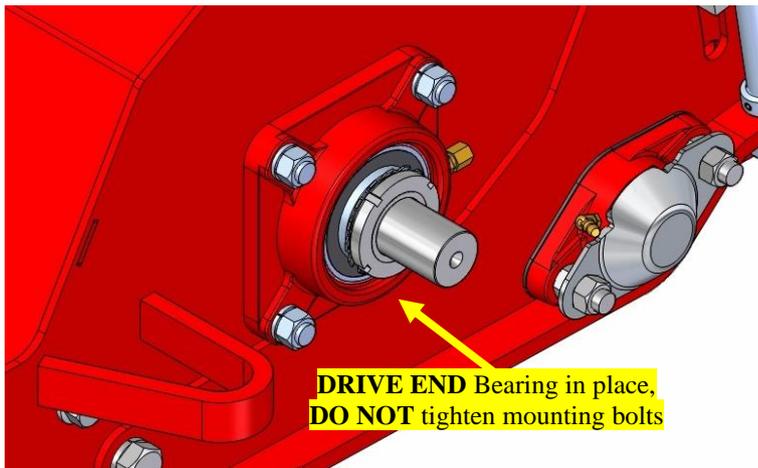
Ensure the fasteners are fitted as original!



Note:

A medium strength thread locker is recommended for use on the mounting bolts.

The **NON-DRIVE END** is the end of the mower with **NO Drive Pulleys!**



Mount the **DRIVE END** bearing housing, also ensuring the grease point faces as originally fitted!

LEAVE THESE MOUNTING BOLTS LOOSE AT THIS STAGE!

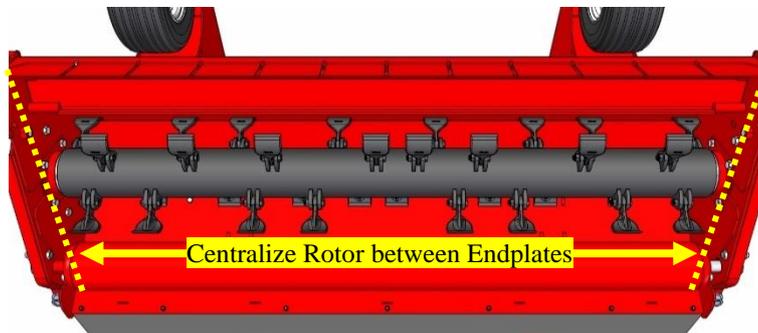
Ensure the fasteners are fitted as original!



Note:

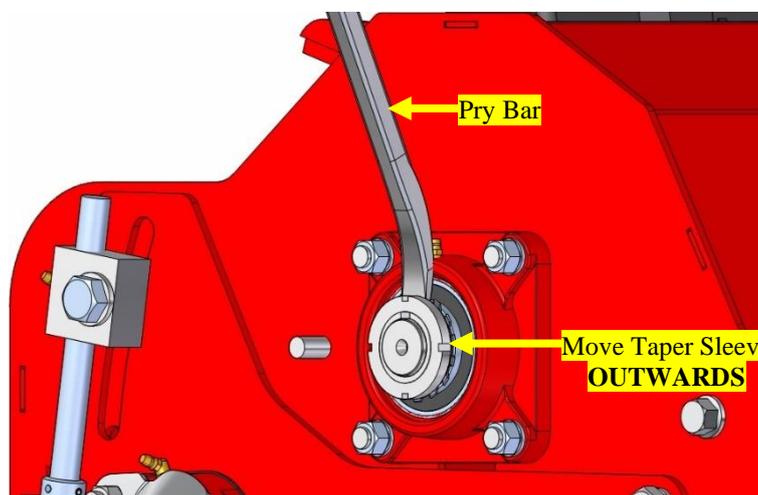
A medium strength thread locker is recommended for use on the mounting bolts.

The **DRIVE END** is the end of the mower with **Drive Pulleys!**



Ensure the Rotor is in the **CENTRALIZED** between the mower endplates.

The gap between the end of the rotor and the inside of the mower endplate should be the same at both ends!



At the **NON-DRIVE END** insert a wedge or similar means to prevent Rotor from shifting.

Insert a Pry Bar between the Locking Washer and the inner race of the Rotor Bearing.

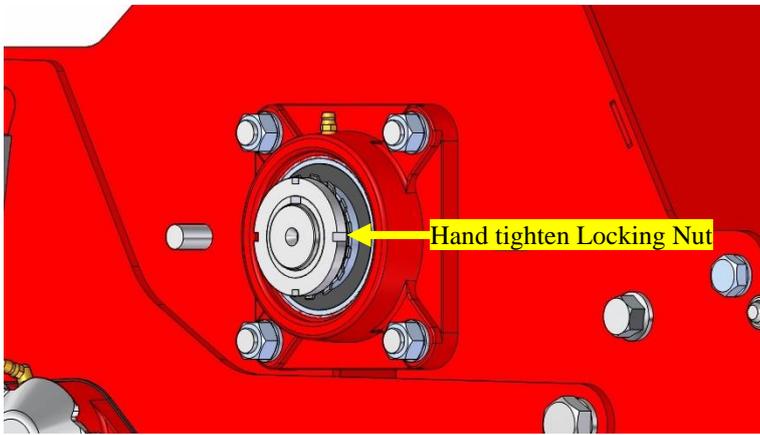
Carefully apply leverage to move the Taper Sleeve **OUTWARDS** as far as possible.



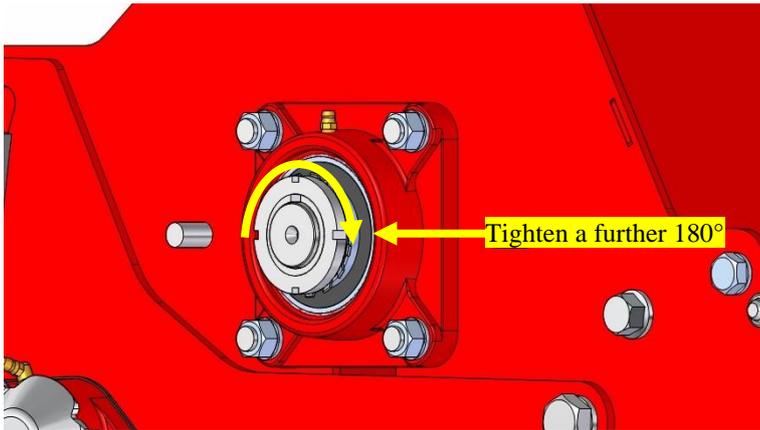
Note:

If the Rotor moves during this process, re-centralize before proceeding!

Use caution to not damage the Bearing Seal!



Hand tighten the **NON-DRIVE END** Locking Nut as tight as possible so the Taper Sleeve begins to lock onto the Rotor Shaft.

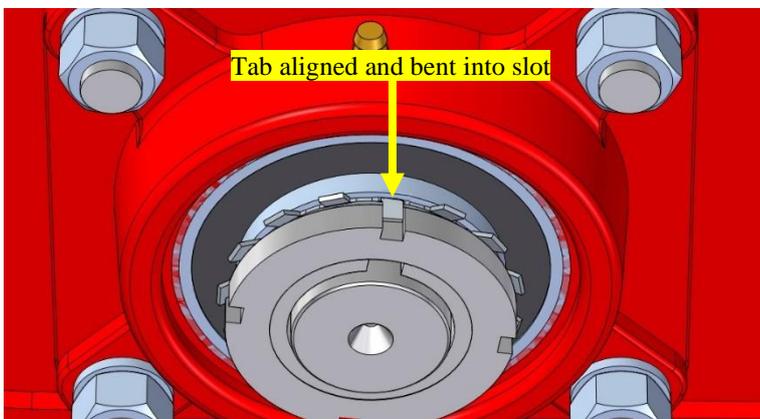


Use a suitable "C" spanner to tighten the Locking Nut one half of a turn (**180°**)



Note:

If a "C" spanner is not available, tighten the Locking Nut using a suitable pin punch and a light hammer.



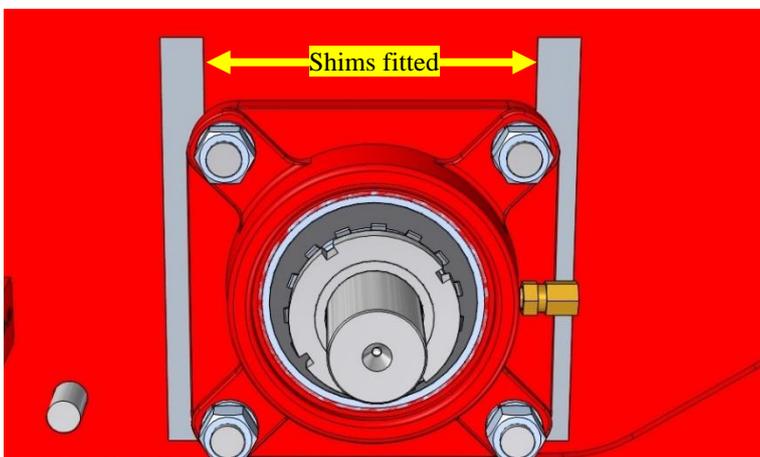
Align one of the slots in the Locking Nut with the nearest tab on the Locking Washer.

Bend the tab into the slot in the Locking Nut to secure.

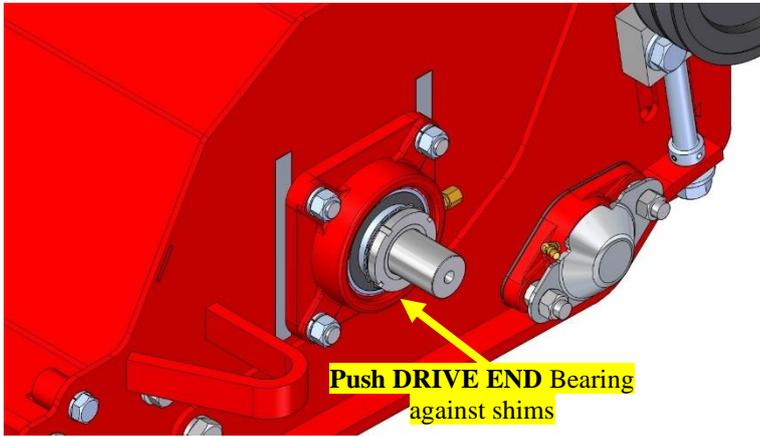


Note:

It may be necessary to rotate the Locking Nut slightly to achieve this.



Move to the **DRIVE END**. Fit the strips of shim material to opposite sides of the Bearing Housing between the Mower Endplate and the Bearing Housing.

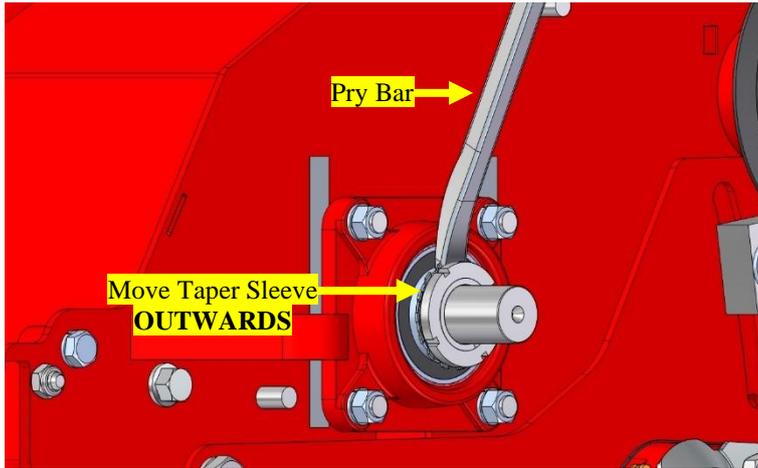


Slide the Bearing Assembly up against the shims.

DO NOT try to move the Bearing by tightening the bearing housing mounting bolts!

If the Taper Sleeve locks up and prevents the bearing and housing from moving inwards, loosen the Locking Nut and gently tap it inwards to release the taper.

LEAVE THE BEARING HOUSING MOUNTING BOLTS LOOSE.



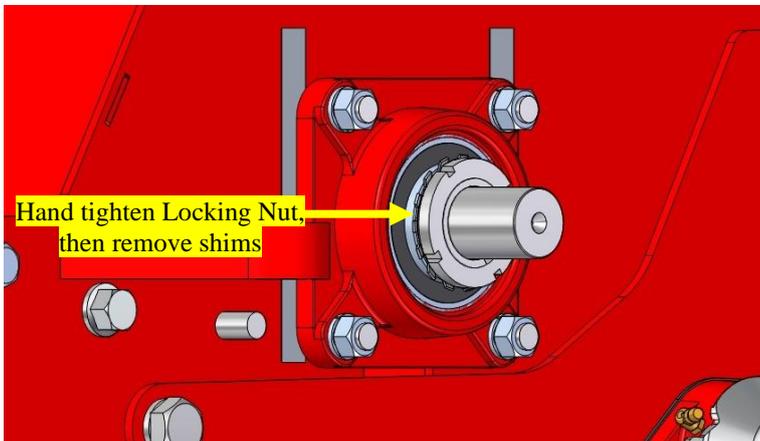
With the bearing housing remaining firmly pressed against the shims, insert a Pry Bar between the Locking Washer and the inner race of the **DRIVE END** Rotor Bearing.

Carefully apply leverage to move the Taper Sleeve **OUTWARDS** as far as possible.



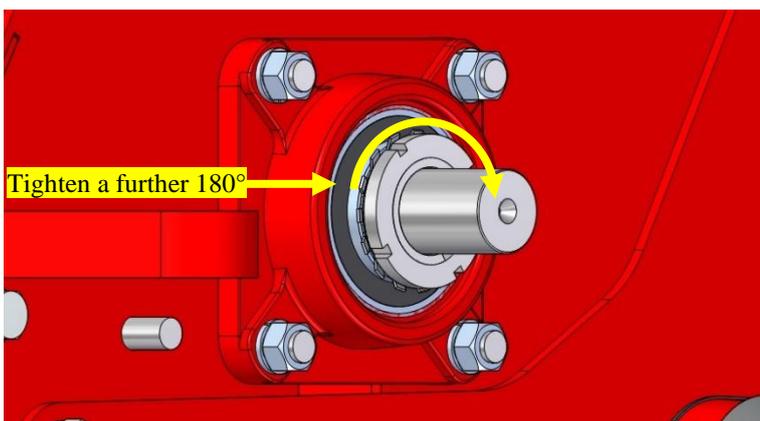
Note:

Use caution to not damage the Bearing Seal!



Hand tighten the **DRIVE END** Locking Nut as tight as possible so the Taper Sleeve begins to lock onto the Rotor Shaft.

Remove the shims.



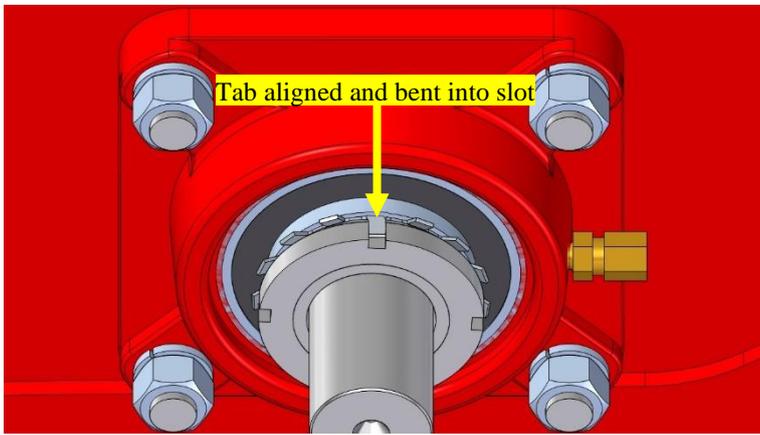
Use a suitable "C" spanner to tighten **DRIVE END** Locking Nut one half of a turn (**180°**)

As the Locking Nut is tightened the Bearing Housing should gradually move towards the mower endplate until there is no gap when the Locking Nut is fully tightened.



Note:

If a "C" spanner is not available, tighten the Locking Nut using a suitable pin punch and a light hammer.



Align one of the slots in the Locking Nut with the nearest tab on the Locking Washer. It may be necessary to rotate the Locking Nut slightly to achieve this.

Bend the tab into the slot in the nut to secure it.

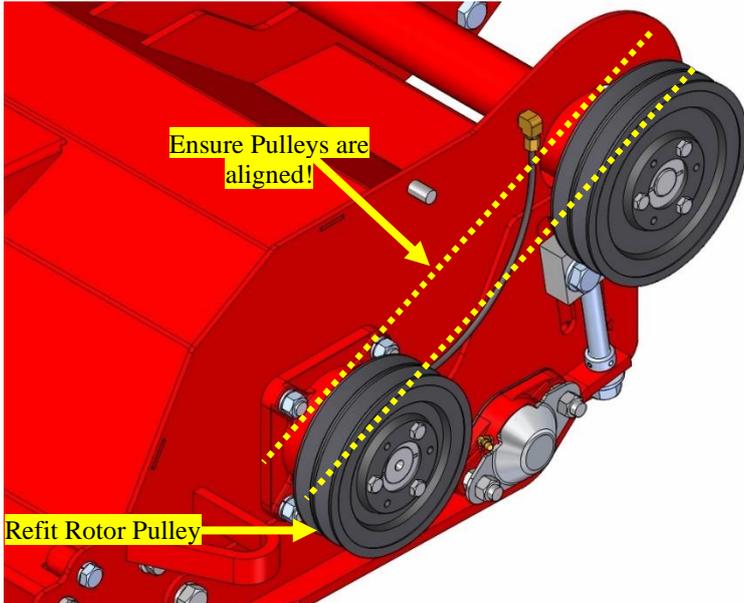
FULLY TIGHTEN THE DRIVE END MOUNTING BOLTS.

Ensure the fasteners are fitted as original!



Note:

A medium strength thread locker is recommended for use on the mounting bolts.



Refit the Rotor Pulley, a Straight Edge can be used to align the Rotor Pulley with the Gearbox Pulley.

The Pulley fasteners will need to be torqued:

Flaildek and Ezeemow: **25Nm (19ft/lbs)**

Warlord: **50Nm (37ft/lbs)**



Note:

A medium strength thread locker is recommended for use on the mounting bolts.

Ensure that the Rotor Pulley and Gearbox Pulley are aligned!

Contact Trimax Mowing Systems for further information if required.



Grease the Rotor Bearings as per the Operators Manual.

Refit and re-tension the Belts as per the Operators Manual.

Refit the Belt Guard and the Bearing Guard.



This Fitment process is now complete.