



SPARE PARTS INSTRUCTIONS #63

Date Created: 29/08/2018

Product: Warlord Series 2 and 3

Title: Retrofit LocTek Transport System



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:

When retro-fitting the LocTek Transport System to the Warlord S2 or S3 it is important to set up the mower so that it cannot fall or move as the Trailing arms and rollers are removed and replaced.

A **Warlord S3 205 with RH Offset** is shown in this process, the same process applies to all sizes and models. One to one scale templates for Series 2 and 3 Warlord Side plate cut outs are at the end of this instruction guide.



IMPORTANT:

An Impact Gun and a 30mm Impact Socket is **REQUIRED** for this process!

This will be used to do up the M20 x 85 Bolts used to secure the LocTek Roller Bearing assemblies to the Rollers.



Wear required PPE when using Impact Tools!



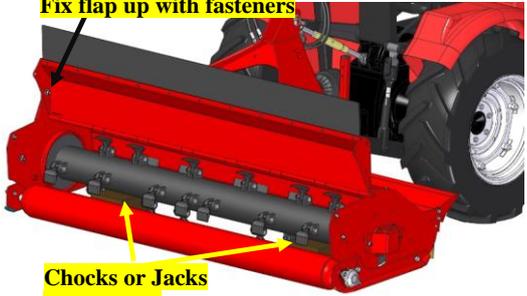
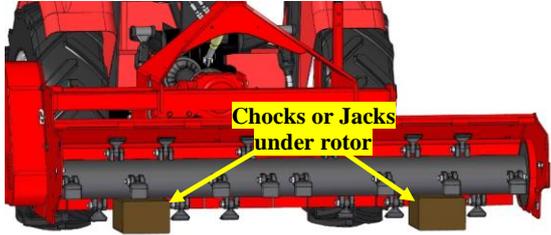
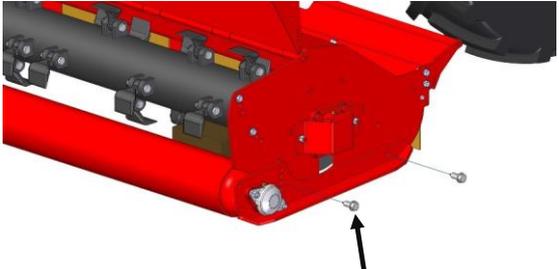
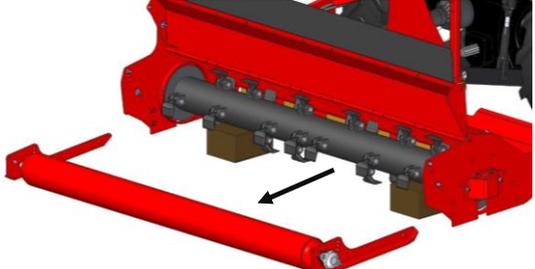
Position the Warlord attached to a tractor, on a smooth, hard and level surface.

Ensure the surrounding area is clear of obstructions and personnel.

Ensure that the tractor parking brake is applied so that the tractor cannot move.

Use the Tractor hydraulics to position the Headstock **CENTRALLY** in relation to the Mower.

Disconnect the P.T.O Shaft from the Tractor.

 <p>Fix flap up with fasteners</p> <p>Chocks or Jacks under rotor</p>	<p>Raise the Rear Flap into the maintenance position and fix in place with fasteners.</p> <p>Place two chocks or jacks under the main rotor and lower the mower using the tractor hydraulics so that the Rear Roller is just at ground level.</p>
 <p>Chocks or Jacks under rotor</p> <p>Rear Flap and Transport System not shown for clarity</p>	<p>Ensure the weight of the mower is being taken by the two chocks or jacks under the rotor.</p> <p> IMPORTANT: Ensure the rotor supports are safe and stable. Make sure that no weight is being taken by the Rear Roller.</p>
 <p>Remove rear bolt first</p>	<p>Loosen the four M16 bolts holding the Trailing Arms to the mower.</p> <p>Remove the two rear bolts first allowing the full weight of the roller to rest on the ground.</p> <p>Remove the front bolts.</p>
 <p>Roll the Transport System away from the mower</p>	<p> Carefully roll the entire Transport System away from the mower.</p>

Commented [EH1]: I'd suggest splitting this into 2 steps because there are a lot of words in this box

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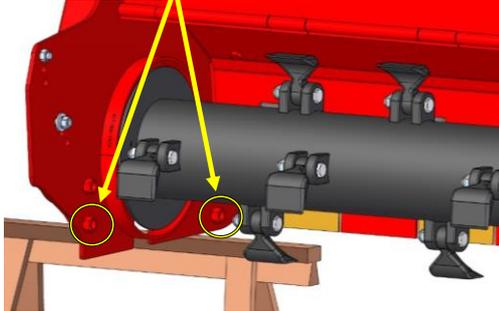
Lift the mower up using the tractor hydraulics and place stands under the main Side Plates.



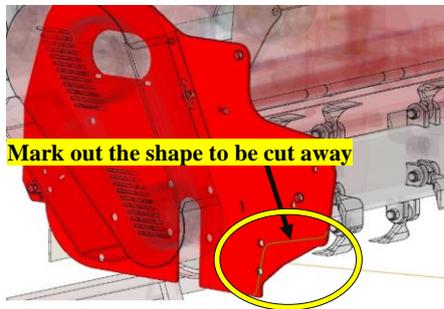
IMPORTANT:

Make sure the mower is safely supported.

Grind off four M16 captive nuts. (2 per side)

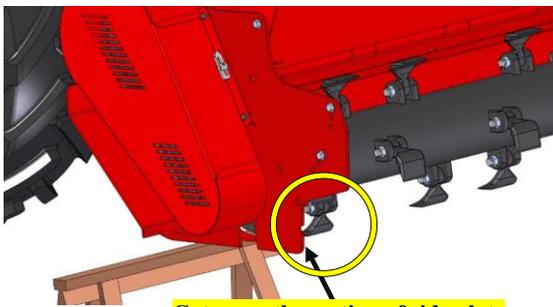


Using a grinder, grind off the welds holding the four M16 captive nuts and remove the nuts. One side is shown in the diagram on the left.



Mark out the shape to be cut away

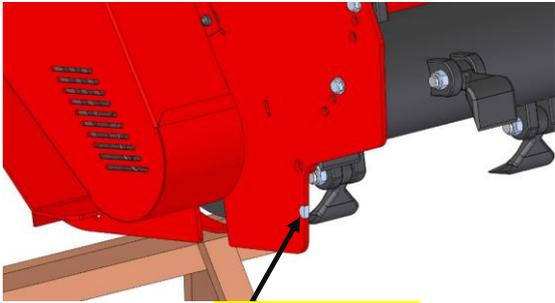
Using the 1:1 scale template from the last page of this guide, mark out the shape to be cut away from the side plates. Do this for both side plates.



Cut away the section of side plate



Using a grinder or similar cut away the section of side plate on both sides of the mower.



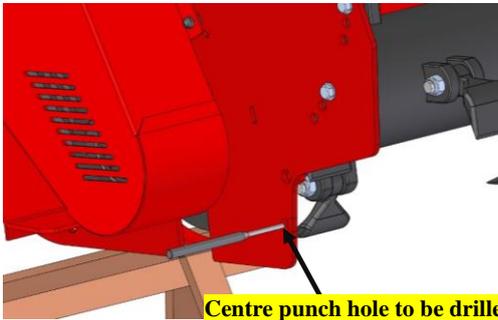
Weld up partial hole



Weld up the partial hole left behind after cutting away the section from the side plate.

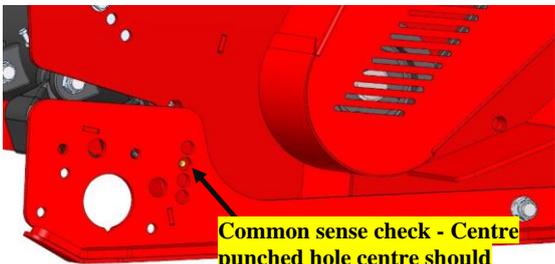


Grind the weld flush and smooth off any sharp edges.



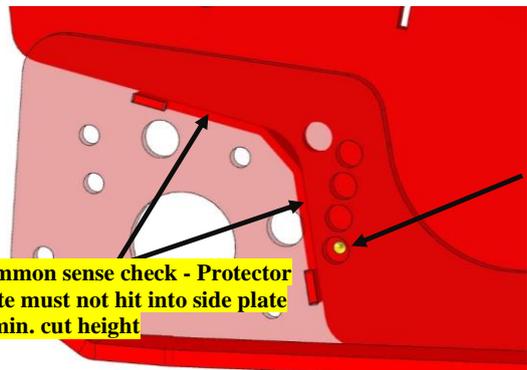
Centre punch hole to be drilled

Using the template from the last page of this guide, centre punch the marks for drilling a 16.5mm (5/8") diameter hole in each side plate.



Common sense check - Centre punched hole centre should align with height adjust holes

As a common sense check, offer up a new Trailing Arm to the Side Plate of the mower. Loosely attach the Trailing Arm front bolt and nut. Visually check that the rear height adjust holes in the Trailing Arm do in fact line up with the centre punch mark before drilling. Adjust the centre punch mark if necessary.



Common sense check - Protector Plate must not hit into side plate at min. cut height

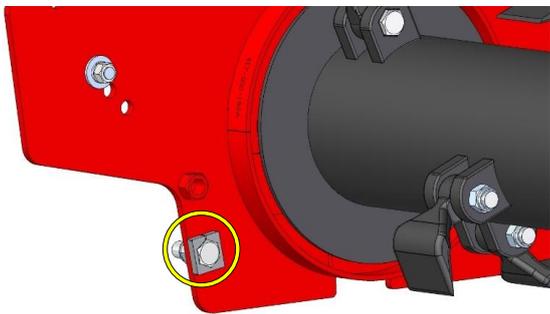


COMMON SENSE CHECK

Align the centre punch mark with the minimum cut height hole on the Trailing Arm as shown. Check that the internal Protector Plate does not collide with the Side Plate and hence the minimum cut height can be physically achieved. Modify the cut-away in Side Plate if required.



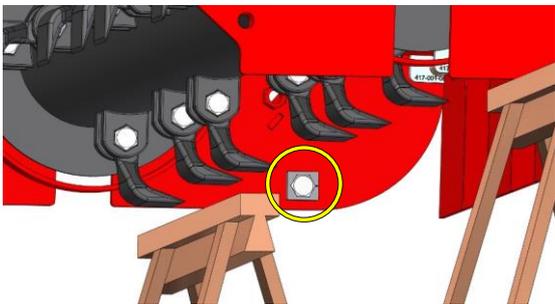
Drill the two holes in the Side Plates using a 6mm - 8mm (1/4" - 3/8") pilot drill bit followed by a 16.5mm (5/8") drill bit.



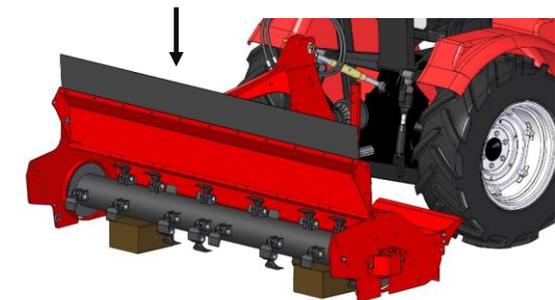
Collect the M16 x 40 bolts and nuts along with the M16 Captive Bolt Plate and position as shown in the diagram on the left.



Weld the M16 Captive Bolt Plate in place and remove the nut and bolt.



Do the same for the front Trailing Arm Mount Hole in the Side Plate. After welding, remove the nut and bolt.



Take the weight of the mower with the tractor hydraulics. Remove the support stands and lower the mower back down so that the rotor rests on the chocks/jacks as before.

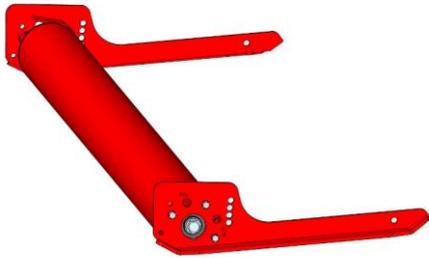


IMPORTANT:

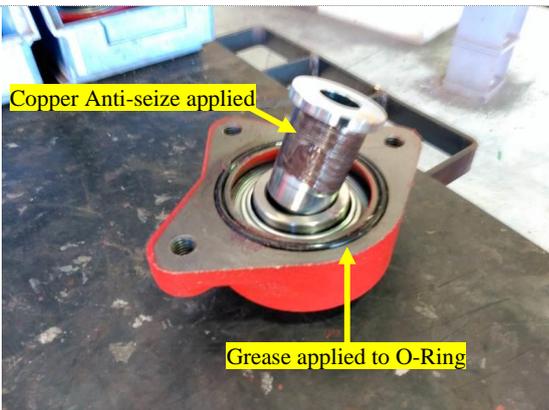
Make sure the Mower is supported well where the rotor rests on the chocks/jacks and is safe and secure.



LocTek Transport System



The following steps explain how to assemble the LocTek Transport System in preparation for fitment to the mower.



Sub-assemble the **TWO** Roller Bearings as described below.

Back off the two Grub Screws in the Bearing Inner Race.



Apply a coat of Copper Anti-seize to the Roller Stub Sleeves as shown.

Apply a small amount of grease to the O-Ring to ensure that it stays in its groove in the back of the Bearing Housing.



Insert the Roller Stub Sleeves into the rear of Roller Bearings as shown.

Ensure the sleeves are **FULLY** inserted!



IMPORTANT:
This is **CRITICAL** to the Roller Bearing Fitment procedure!

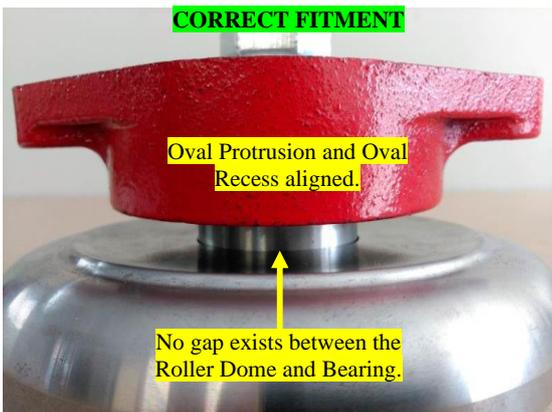


Turn the assemblies over.
 Remove **BOTH** Grub Screws.
 Apply **Loctite 243** to **BOTH** Grub Screws.
 Reposition **BOTH** Grub Screws.
 Fully tighten **BOTH** Grub Screws.
 Repeat for each Bearing Assembly.

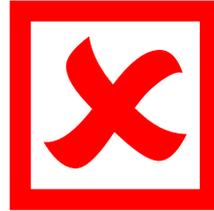
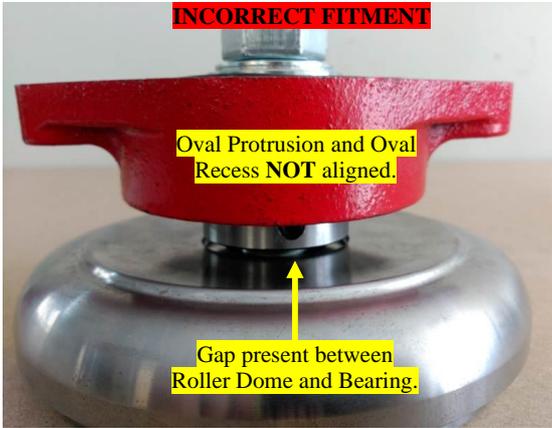


 Apply **Loctite 243** to the M20 x 85 Bolts as shown inset.
 Fit the M20 x 85 Bolt and M20 Flat Washer through the **REAR** of the Bearing Assembly and into the Roller as shown.
 Fully wind the Bolt in by hand.

 **IMPORTANT:**
 Check that the Sleeve is **FULLY** seated in the Roller Dome and Roller Bearing, see below for details!



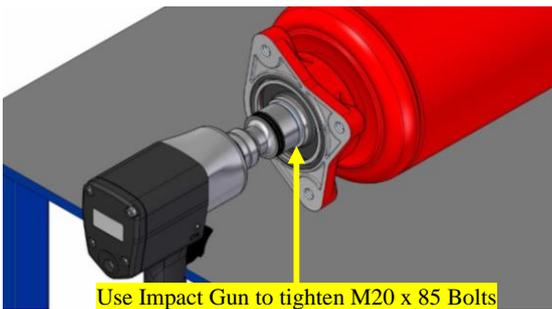
 **IMPORTANT:**
 The image shows **CORRECT** Roller Bearing Fitment!



IMPORTANT:
The image shows **INCORRECT** Roller Bearing Fitment!



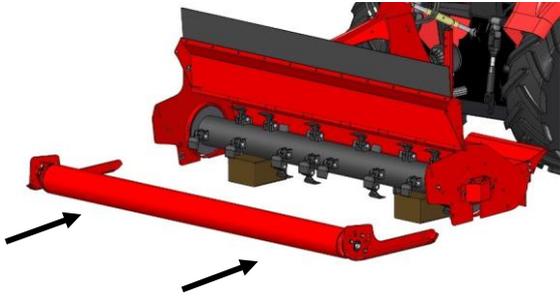
IMPORTANT:
The image shows **INCORRECT** Roller Bearing Fitment!



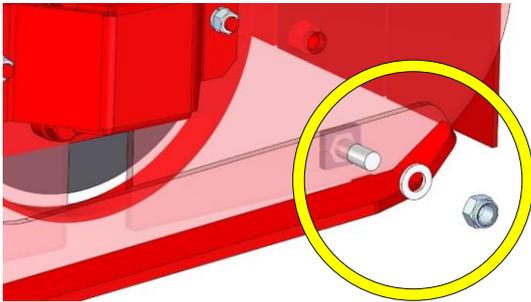
Fully tighten the M20 x 85 bolt with an Impact Wrench.

Repeat the above Roller Bearing Fitment process at the opposite end of the Roller.

	<p>Fit M12 Spring Washers over each of M12 x 30 Bolts.</p> <p>Fit M12 Flat Washers over each of M12 x 30 Bolts.</p> <p>Apply Loctite 243 to the threads of each of the M12 x 30 Bolts.</p>
	<p>Secure the Roller Bearings using the M12 x 30 Bolts with Loctite 243, Spring Washers and Light Flat Washers prepared earlier.</p> <p>Fully tighten.</p> <p>Ensure Grease Nipple is facing outward.</p> <p>Repeat at the other end of the Roller.</p> <p> Note: Take care not to over-tighten and break the Grease Nipple.</p>
	<p> IMPORTANT: Rotate the Roller by hand to ensure it turns freely.</p>

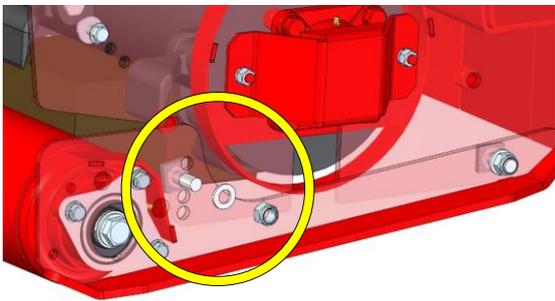


Offer up the LocTek Roller Assembly to the mower.



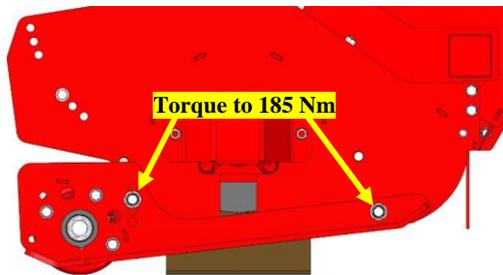
Line up the bolt holes for the front of the Trailing Arm.
 Insert the M16 x 40 bolt from the inside of the mower.
 Ensure that it fits into the Captive Hex Plate.
 Install the M16 Plain Washer and special re-usable M16 Lock Nut.
 Do not do up tight at this stage.

Repeat for the other side of the mower.



Carefully align the desired Trailing Arm Height Adjust Hole with the matching hole in the Side Plate.
 The use of a pry bar or lever may be useful here to vary the height of the Trailing Arm.
 Insert the M16 x 40 bolt from the inside of the mower.
 Ensure that it fits into the Captive Hex Plate.
 Install the M16 Plain Washer and special re-usable M16 Lock Nut.

Repeat for the other side of the mower.



Tighten up all four M16 nuts on the two Trailing arms.
Torque to 185 Nm (135 Ft Lbs)

Grease the two roller bearings via the grease nipples.



Raise the mower using the Tractor Hydraulics and remove the Chocks/Jacks.
Ensure that the Rear Roller rotates freely.
Lower the mower onto the ground.
Lower the flap back to the desired position.
Re-connect the P.T.O. Shaft.

The procedure is now complete.

