

Bearing and Roller Replacement Instructions

Tools required when replacing Roller Bearing assemblies.

- 1 x 24mm ROE spanner.
- 2 x 18mm ROE spanners.
- 1 x 4mm Allen Key.

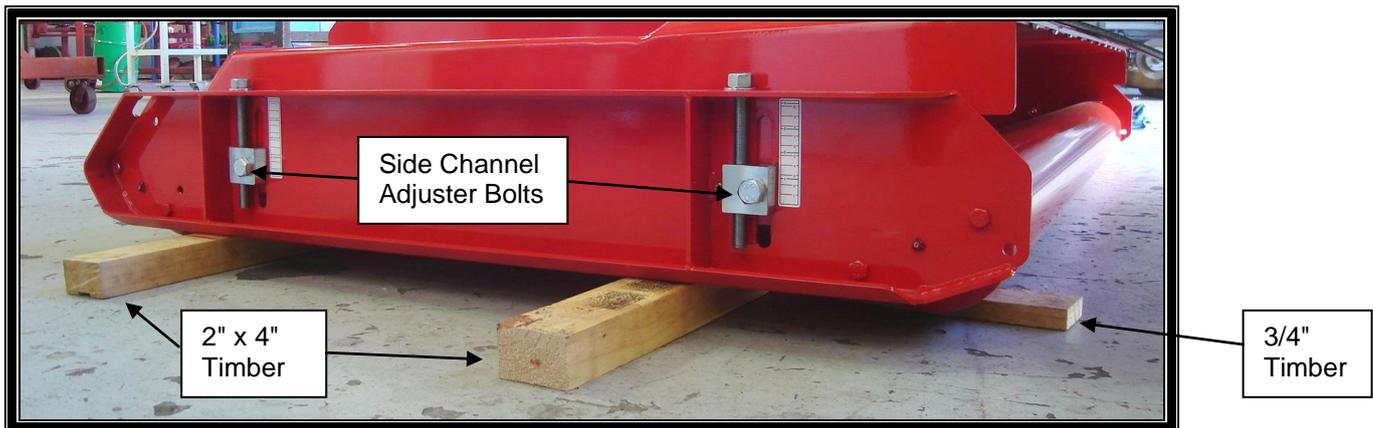
General

Read these instructions fully prior to starting work.

When replacing any mechanical assembly ensure that any parts that will be reused are cleaned and free from debris before re-assembly. Remove any old gasket material (Always replace gaskets)

Setup

Lower the mower deck onto 4 pieces of 100 x 50mm (2" x 4") Timber, placed under the Side Channels so the Rollers are clear of the ground. There is a 1" difference between the bottom of the Side Channel and the bottom of the Roller. Use a 3/4" thick piece of timber to support the roller during disassembly and assembly.



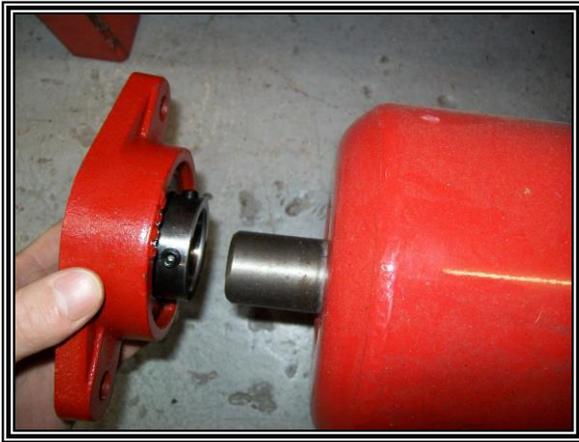
Disassembly

Use a **24mm** wrench (spanner) to loosen side channel adjuster bolts until there is approximately 1/4" (6mm) clearance. Support roller with 3/4" timber and remove bolts from Roller Bearing Housings using 2 x **18mm** wrenches. Clean any parts that are to be reused. Loosen Grub screws from inner face of bearings and remove from roller stub (if roller is to be re-used). If bearing is loctited to stub apply localized heat to the assembly to approximately 250°C then disassemble while hot.



Shaft Checking

Before fitting a new bearing, it is important the roller stub is checked for wear. Trimax rollers use either 1" (25.4mm) or 1-3/8" (34.92mm) stubs. If the stub is more than 0.2mm (0.008") undersize, the roller stub will need to be replaced or repaired. A roller sleeve kit can be purchased from Trimax spare parts, part numbers 414-000-048 (1") and 414-000-047 (1-3/8").



Assembly

Ensure both the stub and inside of the bearing inner race are clean and free of oil and grease. Coat the inner race with Loctite 609, slide the bearing onto the roller stub and twist bearing on shaft to ensure its spreads on stub. Ensure the bearing's collar is facing inwards. Use a thin film of grease to attach the gasket onto the bearing housing.

Position the Roller and align bearing housing with mounting holes in side channel. Line up the innermost hole first and loosely fit the M12 bolt, nut and spring washer. Use a lever to

raise the roller and rotate the bearing housing until the second hole is aligned. Be careful not to damage the gasket during this process. Fit bolt, nut and spring washer but do not fully tighten. Offer up and install the second bearing unit following the same procedure. Once both ends of the roller are in place fully tighten the housing bolts.

Check the roller is central between the side channels and it does not interfere with other parts. Use a 4mm allen key to tighten the bearing grub screws onto the roller shaft. Remove any obstacles from around the roller. Repeat these steps on opposite side.

The loctite 609 significantly improves the retention of the stub in the bearing. It is important the Loctite is given sufficient time to cure. Minimum curing time is 24 hours.



Once the Loctite has cured, slowly grease the Roller Bearings until a small amount of grease is expelled between the Bearing Insert and the Bearing Housing. This ensures that the cavity in the rear of the Bearing Housing is completely full of grease.

Use care during this process as excessive grease pressure can dislodge the Bearing Seals.

Rotating the Roller while greasing until a slight increase in resistance is felt is a good indicator that enough grease has been applied.

After the initial grease fill process, continue to grease the Roller Bearings at the intervals detailed in your Operators Manual.

Lift mower decks and remove all debris and tools prior to mowing.