



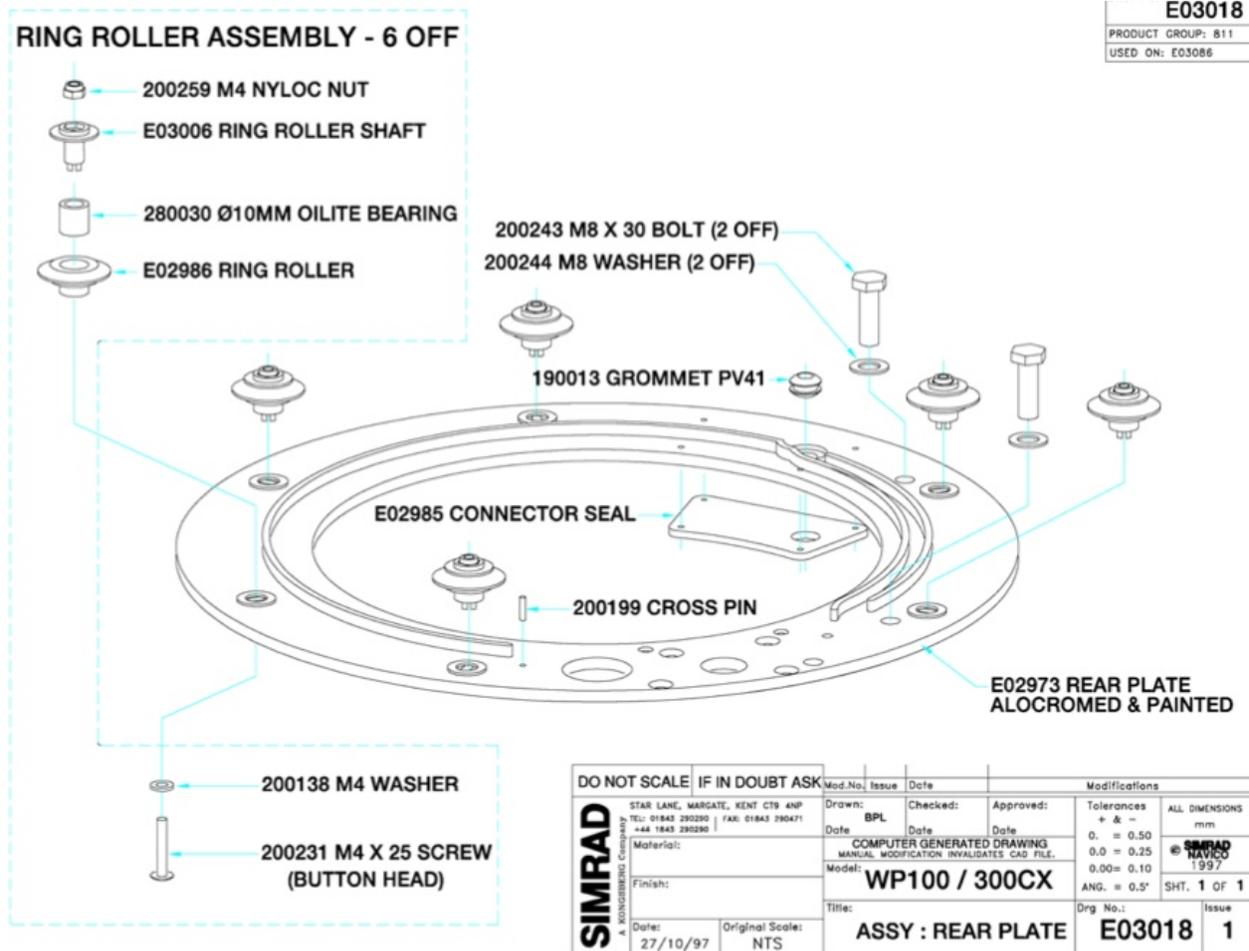
## Simrad Ring Roller Replacement

Your rollers are printed in a sinter cage. Carefully snip the sinter cage apart to remove your rollers. There may be a small amount of residual powder left inside the shaft of the rollers. DO NOT DRILL THE HOLES OUT to remove the powder - this will damage them and ruin them. Use a small drill bit (4mm or 5/32") in your fingers and spin it to clean out the powder.

The Simrad wheel pilots contains 6 rollers that are evenly spaced around the wheel assembly.

To separate the 2 halves of the wheel:

Lay the pilot on a bench with the Drive Ring facing downwards. Using a 2.5mm Allen Key, loosen the 6 button head screws. This will allow the internal rollers to tilt a bit until the drive ring can be released from the assembly. Each of the 6 rollers may now be removed.



**Hardware parts:**

The Ring Rollers and Ring Roller Shafts are compatible with the original brass sleeve, bolt, washer and Nylock nut. You may optionally have ordered them with your rollers and shafts. These parts may also be ordered from the McMaster Carr website with the following part numbers:

92095A197 - Bolt (Button Head 4mm x 25mm)

93625A150 - Nut (Nylock 4mm)

90965A150 - Washer (4mm)

6658K735 - Brass Sleeve Bearing (12mm OD x 8mm ID x 12mm H)

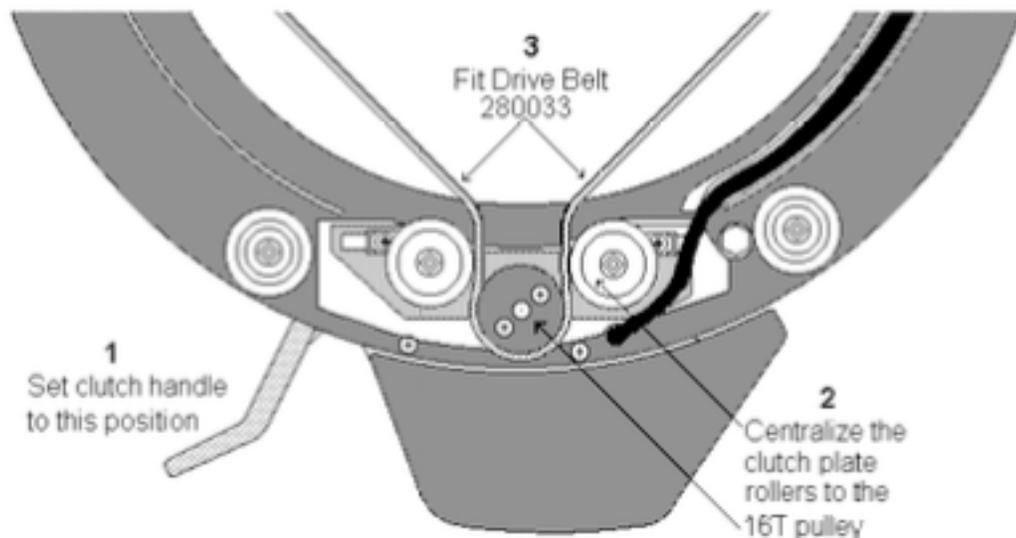
(make sure all bolts and hardware are stainless steel)

**Reassembling the wheel**

Refer to the sketch below and set the clutch handle to the midway position. Position the clutch roller plate so that the two rollers on the plate are equidistant about the 16T drive pulley. Fit the belt as shown, and push the clutch lever up to capture the belt. Check all the rollers are loose.

**WARNING Care should be exercised in the following operation to avoid trapping fingers.**

Place the Drive Ring Assembly (Spinning) over the belt in between the gear box housing, push the belt up into ring and tuck the six rollers into the drive ring. When all the rollers are in the ring, turn the unit over and tighten the six button head bolts on the rear a little at a time, proceeding multiple times around the ring until all are reasonably tight (do not over tighten).



If you have any problems, please contact i3DGear.

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