

Below is some notes on replacing the Flexible Stops on your Gori 3-blade propeller.

The Replaceable Flexible Stops serve to minimise noise and absorb blade opening shock loading at start-up and when going into reverse and Overdrive. There is no standard time/hours for replacement, it depends on the amount of wear due to engine hours, blade loading and inertia.

The stops "sit" (are installed) under the bevel of the center gear wheel between each blade slot with their round tip pressed/located into a hole (see schematic). The propeller does not need to be disassembled to remove and install new Flexible Stops; however, the task is easier if the propeller is disassembled - blades and gear wheel removed. (See instructions for blade pin & blade removal).

## For a Disassembled propeller with Blades removed

1. To remove old stops (15), use a flat head screwdriver positioned under the stop, and pry the stop up and out of the retaining hole.
2. Clean the hole and surrounding area.
3. Ensure the "tit" hole is clean and apply a smear of a lubricant – lite oil/ grease/dish washing liquid - to the tit.
4. To install new stops, locate the Flex Stop tit over the hole.
5. Press the stop into the hole ensuring it is fully seated. Use a wood dowel and tap down to press the stop fully home in the hole.
6. Reassemble propeller making sure the PEPT spacer and center gear wheel are positioned and turn freely.

## For a non-disassembled propeller with Blades installed

1. Move the blades into the fully folded position, exposing the old stops (15).
2. Use a flat head screwdriver positioned under the stop and pry the stop up and out of the retaining hole.
3. Clean the hole and surrounding area.
4. Ensure the "tit" hole is clean.
5. Apply a smear of a lubricant – lite oil/ grease/dish washing liquid - to the tit and to the back bevel inside face to the gear bevel.
6. Ensure the blades are in the fully folded position, exposing the retaining slot "tit" holes.
7. To install new stops, locate the Flex Stop tit over the hole.
8. Work the stop into the slot between the gear teeth by moving the blades

slightly back and forth, swivelling them open and closed, to obtain the best angle and position over the hole.

9. The stop will be sitting above the gear wheel. Use a flat blade screwdriver to position and hold the Stop tit over the hole.

10. Bring the blade 'down' into the fully open position (with a bit of force), "popping" the Flex Stop into position under the gear wheel bevel and fully into the hole. Alternatively using a wood dowel over the stop, tap the stop down so it 'pops' under the center gear bevel.

11. I sometimes grind either end of the stop which makes it easier to install. The other option is to bring the propeller topside & install with the help of a 3<sup>rd</sup> hand! See instructions.

Notes:

- If the stops are loaded left and then right, the stops may get twisted causing the teeth and stops to rub on one end of the stop.
- If loaded with tit on stop pointed upwards, and then pushed down to rotate the entire stop, as in pushing the tit on the stop downwards along the centerline of the stop, this keeps the stop better aligned with the gears as it gets its tit inserted (pushed) into the housing. Use the blade of the prop plus a flathead-screwdriver blade to do this to fully insert the tit into the housing.

There is no hard & fast replacement time/ hours for replacing the Flexible stops on the Gori 3 & 4-blade.

It depends on the amount of wear due to engine hours, blade loading & inertia.

The rreplaceable flexible stops are there to minimise noise and absorb blade

opening shock loading at start-up & when going into reverse & Overdrive.

If the flexible stops are missing the blades are able to open more Fwd. & therefore increase the pitch. The blade housing may also be damaged by the blade hitting