

This tip only concerns first batch, and is no more necessary since may 2012.

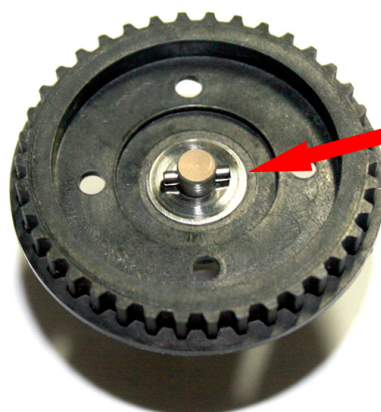
E4RS II - Tip 4: Differential Smoothness

Team Magic choose the reliability by designing a perfectly sealed and waterproof differential, and the result is perfect. But I feel the smoothness of the outdrives rotation not "perfect". I checked it, and after some tests (I tried diverse O-rings, greases and shims), I found a very easy way to obtain a perfectly smooth differential.

With a grade 600 sandpaper, I slightly reduced the outdrive guides length of the differential case. The target is simply to slightly reduce the pressure on the internal O-ring.

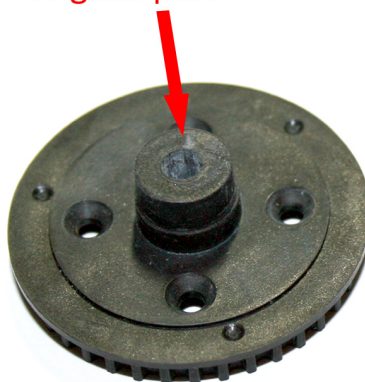
So, if you choose to do it: please, BE CAREFUL ! Do not reduce too much the length ! Make it very slowly, and check the smoothness of the rotation frequently, until you obtain the expected result.

After this little modification, you can run a little harder oils for the same feeling than a "out of box" differential.



As the O-ring under the thin shim is on pressure, it increase the quality of the seal, but reduce a little bit the smoothness of the outdrive rotation.

Original part



Modified part

