

Service Bulletin

Front Swivel Wheel Grease Seal Install Error – Axel/Spindle Flat Washer Missing

Model: RG Produced Units

Revision: - (initial)

Date: 11/20/23

First step is to identify if your Podzilla unit has a grease seal improperly installed. Looking at the back side (inside part) of the wheel hub assembly, if the grease seal is recessed into the wheel hub (pressed in beyond flush) as shown below, you will need to follow the steps outlined in this service bulletin to correct the problem.



Step one, remove the protective wheel hub cap. Adjustable channel locks can be used with a slight up and down motion to remove the protective cap.





With cap removed, next remove the cotter/retainer pin from the axel assembly.



A pair of diagonal cutters can be used to straighten the cotter pin out and pull the pin from the axel shaft hole.





With the cotter pin removed, the castle nut can be taken off.



A pair of adjustable channel locks can be used to back off the castle nut.



Castle nut removed. Please take note if the swivel wheel hub assembly had a flat washer installed directly behind the castle nut. If no washer was present, follow later steps to install the RG Group provided flat washer as part of an assembly upgrade.



Remove wheel assembly.



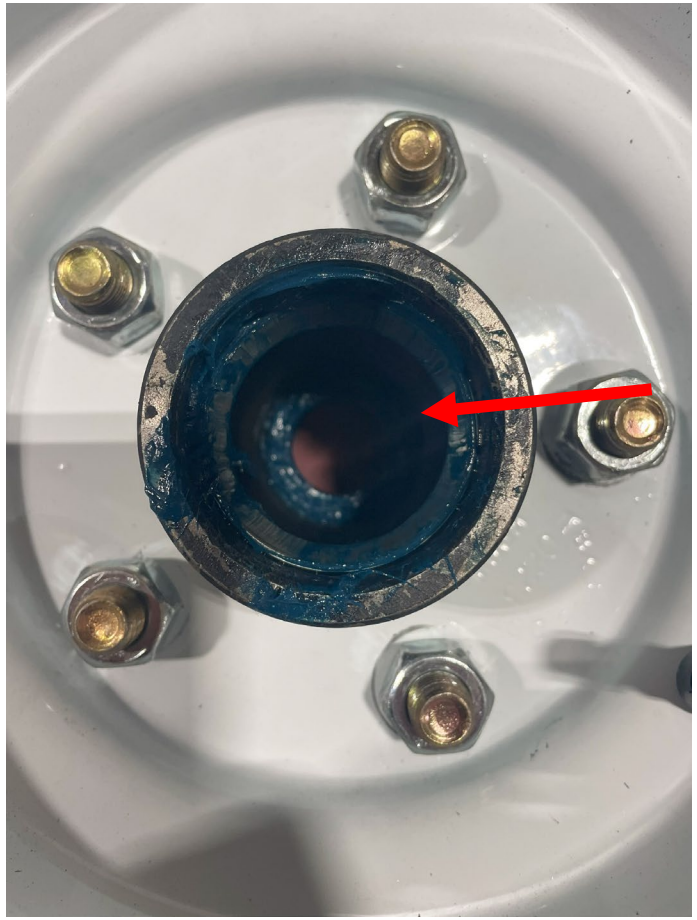
Place removed tire assembly on flat surface or table, lug nuts face side up (front side). Lift and remove the inner tapered bearing and set aside for future use.







With the front side tapered bearing removed, we can now punch out the rear side hub bearing and grease seal



To punch the rear side bearing and grease seal out, RG Group put together the pipe tool shown below. This is made from schedule 80, ¾-14 NPT pipe (about 8” long) with a ¾-14 NPT coupling screwed into the male threaded end. The coupling has an OD of approx. 1.32”, so whatever tool used on site should be as close as possible to this dimension. The RG Group tool used is sized to only push on the inner race of the bearing, not the outer tapered part. This technique will not damage the bearing and is the RG Group recommend method of removal.







Insert tool into center of wheel hub and use a hammer to punch the tapered bearing and grease seal out of the bottom.



Punched out grease seal and tapered bearing.



Place tapered bearing aside to be used later.



The old grease seal can be discarded and replaced with the new seal sent by RG Group.

Old Grease Seal



New Grease Seal



With the wheel hub assembly sitting rear (back) side up, take the tapered bearing and insert back into the wheel hub.





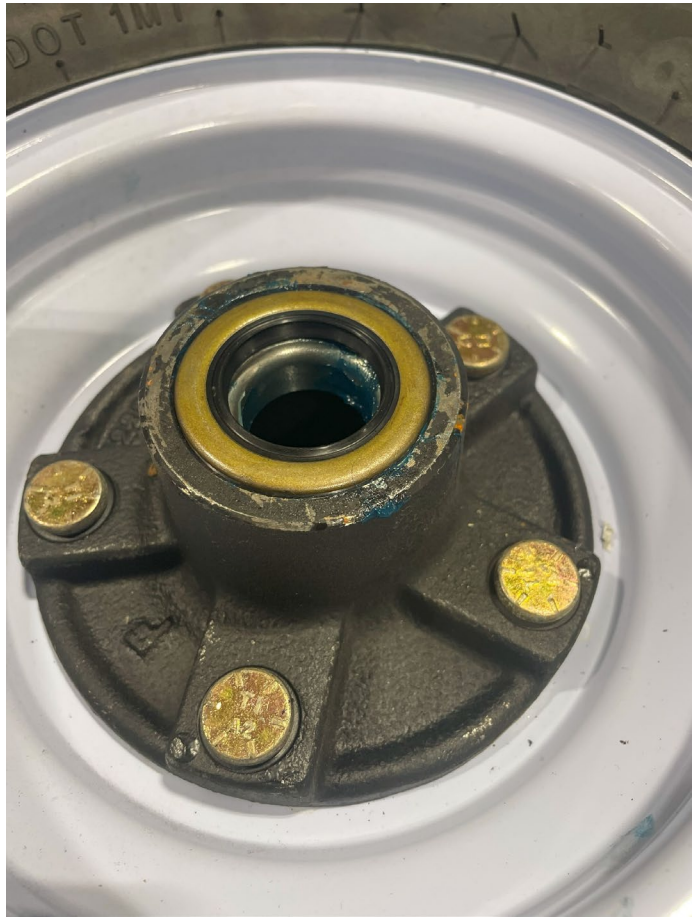
Next, place the RG Group supplied grease seal on top of the tapered bearing inside the wheel hub. Get this to sit a level as possible.



Using a 4”x4” square block and hammer, tap the grease seal flush and into place.



Grease seal tapped into place; seal is sitting flush with wheel hub casting.



Flip tire over back to the front side and reinstall the front side tapered bearing.







Install wheel back on swivel caster axel





This Podzilla unit may have not been equipped with the 1” ID spindle/axel flat washer. The RG Group kit with the new grease seals will also include these washers. Please be sure to install this washer prior to putting the castle nut back on.





Install castle nut and tighten as much as possible while still allowing the wheel to spin freely.





Install the cotter pin. You may need to back off the castle nut slightly to have the cotter pin hole and cotter pin line up with the castle nut grooves. Once pin and castle nut are lined up and engaged with each other, bend over the ends of the cotter pin as shown below so it stays retained.







Lastly, install the wheel hub cap.



Completed front swivel wheel. Repeat this process on all tires that have the grease seal pressed in too far.

