

How to Properly Change the Input Shaft Seal on a TRW Steering Gear Box Without Damaging the Steering Box Cover



1. First, locate the input shaft seal on the TRW Steering Box.



2. Verify the return line on the steering gear box. The return line is always located highest or closest to the input shaft and is marked with the letter "R".



3. Remove the return line and install a high pressure plug at the base of the return line.



4. Remove the steering shaft

Note: Before removing the steering column, make sure to put the wheels are in the straight forward position and center the steering wheel. This will help ensure the steering column is re-installed in the correct position; especially for steering gears without a master spline assembly.



5. Remove the dust boot shield.



6. Clean out the area with cleaning solvent and shop air to expose the snap-ring. Pick one corner of the snap-ring out so it can be easily removed.



7: Option 1



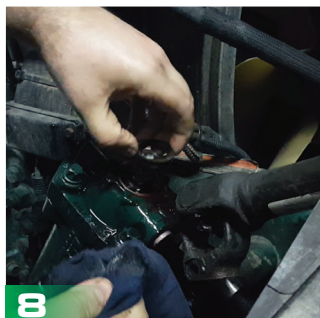
7: Option 2

7. **Option 1: Pick Out the Seal** (Requires Specialty Tool)
Use a specialty tool that precisely fits over the input shaft and lines up a drill bit hole so you can pierce the seal. Once the seal is drilled out, you insert a screw in the drill hole and then use a side cutter to pry the seal out.

7. **Option 2: Pop the Seal Out**
Cover the input shaft with a shop towel to prevent oil splash back and secure the shaft end with a pair of vice grips. Turn the vehicle on so the system is under pressure and the seal should pop right out. Inspect the cavity area to make sure the seal surface area is clean of any debris.

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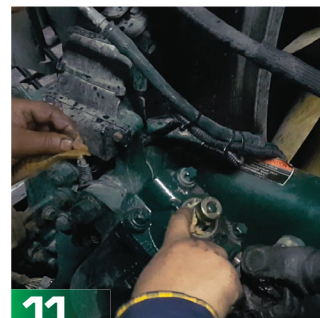
8. Make sure to use a seal installation tool. This tool will ensure the seal is installed to the correct depth, so the snap-ring can be easily re-installed.



9. Using a specialty seal installation tool, install the seal.



10. Now install the snap-ring and make sure it's secured in place.



11. Fill the cavity up with the proper grease.



12. Install the proper size dust boot shield.



13. Re-install the steering column and torque it to OE specifications.



View the Complete Input Shaft Seal Replacement Video

(<https://www.youtube.com/watch?v=yiPkm0B0jD8>)

If you require further assistance, please contact us as 905.612.1256.