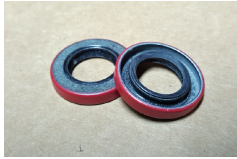


INSTALLING NEW BEARING CAP SEALS ON YOUR GRAVELY L-SERIES TRACTOR

The original Garlock® double-lipped seal installed by the factory in the Bearing Cap of your Gravelly L-series tractor is still available, but it is very expensive. This technical letter gives detailed instructions on how to install two single-lipped seals, which cost far less, in place of the original style double-lipped seal. The result of this installation will be functionally equivalent to the original, and will save you money at the same time.



Bearing Cap Seal Kit
#13491

We recommend using two high-quality seals for this purpose, such as the #13491 set available on our website. We do not recommend purchasing the least expensive seals you can find, because they will quickly fail, and have to be replaced prematurely.

Please read the following carefully to assure that your new seals work correctly before proceeding to install them.

INSTALLATION INSTRUCTIONS:



FIGURE 1
Bearing Cap with original seal installed.

1. Remove the Bearing Cap from the back of the crankcase of your engine. Refer to the factory Service Manual for the proper procedures to complete this step.
2. **Figure 1** shows the Bearing Cap with the original style seal installed.
3. Place the Bearing Cap on a vise with the inside facing up, as shown in **Figure 2**.
4. Place a socket that is smaller than the outside diameter of the seal and gently tap the old seal out of the Bearing Cap, as shown in **Figure 2**.



FIGURE 2
Removing old seal from Bearing Cap.



FIGURE 3
Bearing Cap with first of two new seals in place, waiting to be installed.

5. Remove one of the new single-lipped seals from the package and place it, **OPEN SIDE TOWARDS THE OPERATOR**, on the face (Operator's Side) of the Bearing Cap, as shown in **Figure 3**. **CAUTION: Be SURE that the new seal is perfectly centered at the opening of the Bearing Cap!**
6. Gently press the first seal into the hole in the Bearing Cap so that it will not fall out. Then, place the back (engine side) of the Bearing Cap against a vise and hold it there. Carefully close the vise until it just touches the face of the Bearing Cap. See **Figures 4, 5, 6 and 7**.



FIGURE 4
Place Bearing Cap and Seal in vise.

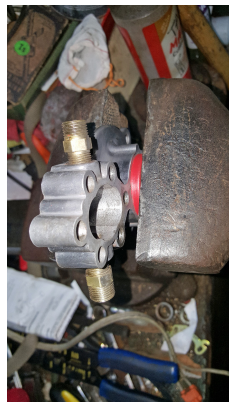


FIGURE 5
Apply gentle pressure to press seal into Bearing Cap.



FIGURE 6
Seal pressed in all the way.



FIGURE 7
First (inside) Seal installed.

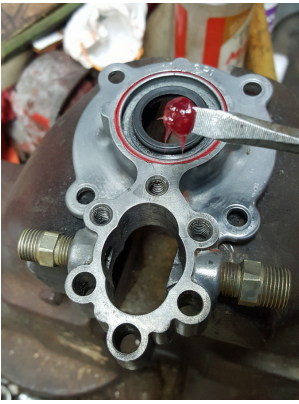


FIGURE 8
Lubrication for seals ready to be applied.

7. Place about 1/4-teaspoon (no more) of wheel bearing grease in the cavity of the first (inner) seal that has been installed in the Bearing Cap, as shown in *Figures 8 and 9*.

NOTE: *This is an important step, as it serves to provide permanent lubrication to the inside surfaces of the lips of both seals, thus insuring longer service life.*

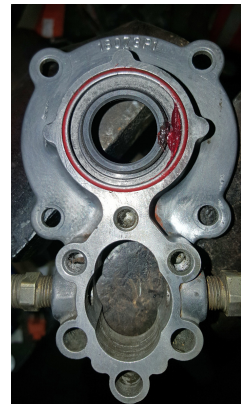


FIGURE 9
Lubrication installed.

8. The second single-lipped seal is now ready to be installed. It will be placed so that its **CLOSED** side **FACES THE OPERATOR**. Place the second seal **OPEN SIDE AGAINST THE OPEN SIDE OF THE FIRST** (inner) **SEAL**, as seen in *Figure 10*.



FIGURE 10
Correct placement of Outer Seal.

9. Place the Bearing Cap in the vise, as you did in Step #6, and carefully close the vise until it rests against the face of the Outer Seal. **CHECK TO MAKE SURE THAT THE SEAL IS LINED UP WITH THE HOLE IN THE BEARING CAP BEFORE YOU PROCEED TO STEP #10!** See *Figure 11*, right.



FIGURE 11
Carefully align Outer Seal in hole in Bearing Cap before applying pressure with vise.

10. **GENTLY** apply pressure with the vise until the Outer Seal is flush with the face of the Bearing Cap, as shown in *Figure 12*.

11. Installation of the two seals is now complete. Be sure and use a tap to chase the threads in the crankcase and face of the Bearing Cap so that the bolts will hold properly when installed.

NOTE: *If your Bearing Cap has L-150 OR #L-850 on it, you will need Gasket #12585 for the Bearing Cap and Gasket #12717 for the Oil Pump (small) Cover, both of which are available on our website.*



FIGURE 12
Gently apply pressure to Outer Seal until it is flush with face of Bearing Cap.



FIGURE 13
New seals installed.



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BCS-1 Rev. 1.3