

# Fitting instruction for MudStop and right-hand crankshaft bearing seal

Congratulations on taking the decision to fit this protection to your precious motor. This will not only protect your main bearing from dust dirt and water, but the bespoke crankshaft seal will protect the right-hand crankshaft bearing, freewheel clutch bearing, freewheel gear bearing surface, as well as the freewheel gear bearing itself and crankshaft bearing surface.

Step 1, Remove the crank arm, front sprocket and right-hand crankshaft circlip.

NOTE: Sprocket removal is not necessary if you are not fitting the “MudStop” bearing shield.



Step 2, Take a cloth and clean the space between the crankshaft and sprocket carrier. It can help to use a screwdriver or similar to help achieve this.



Step 3, Apply a thin film of silicone or water resistant grease



Step 4, In with your seal is 100mm length of 1mm thick Wire. Place this wire through the seal and along the crank



Step 5, The wire should look like this.



Step 6, The wire is to let the air escape as the seal is pushed in. If you don't have the crankshaft fitted, this step is not necessary.



Step 7, Ensure the tool you use fits over the crankshaft all the way down to the bearing. Pass the wire through the tool and push the seal until it stops at the bearing.



Step 8, With the seal in place past the circlip groove, the wire can be pulled free. Push the seal once more to ensure it is fully seated.



Step 9, Re-fit the crankshaft outer circlip.

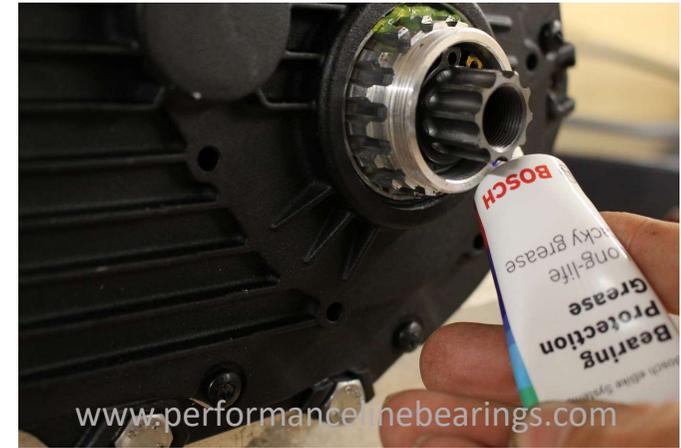


If you are also fitting the MudStop main motor bearing protection

Step 1, If fitted, remove the Bosch bearing cover and discard it. Clean out any dirt or grit.



Step 2, Apply Bosch bearing protection long life tacky grease .



Step 3, Slide the MudStop into place.



Although you are now as protected from dust, dirt and water as it's currently possible to be, these measures may not work against pressure washers or deep water.

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Detailed instructions dealing with motor covers etc. can be found on [www.performancelinebearings.com](http://www.performancelinebearings.com)