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TECHNICAL REPORT

Assembly of injector pump oil
seal 71000100 in 1.8 TDCI Ford
engine



01 purpose

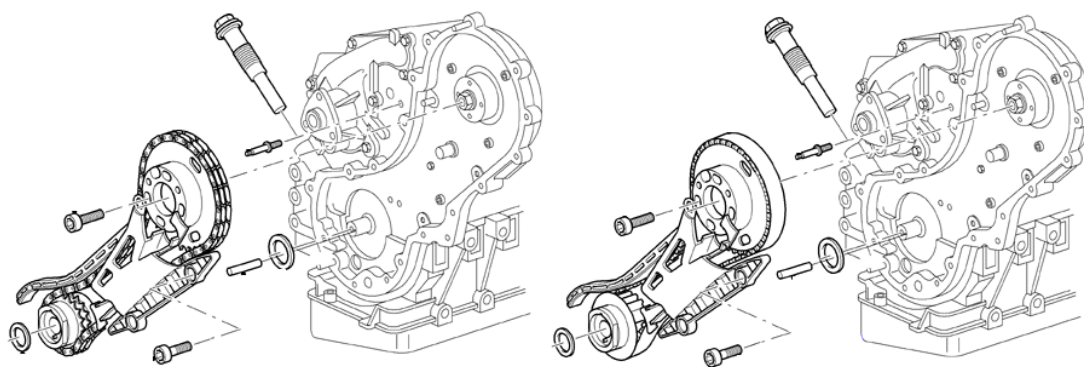
Show the **assembly instructions** for the injector pump oil seal with reference **71000100** which is fitted in 1.8 TDCI Ford engines.



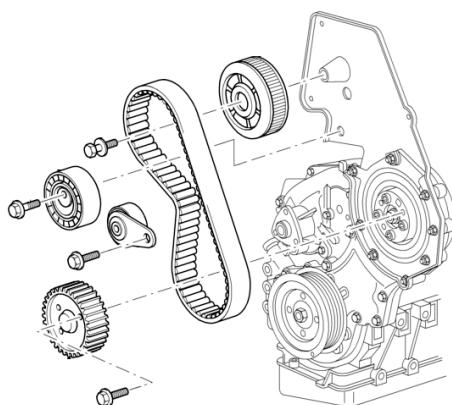
02 description

In 1.8 TDCI Ford engines we could find two timing sets:

One chain / belt between the **crankshaft** and **high-pressure injector pump**.



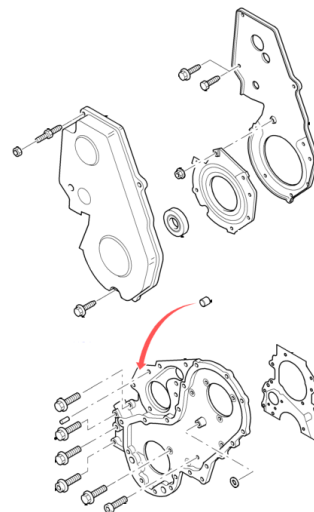
One belt between the **high-pressure injector pump** and the **camshaft**.



Therefore, the **shaft of the high-pressure injector pump** is shared between the chain/belt, that it is oil-immersed, and the belt of the camshaft, that it must be completely dry.

To **seal the shaft**, there is an oil seal with housing whose sealing lip is made of PTFE (Polytetrafluoroethylene or Teflon). The **Ajusa reference** of this housing is 71000100.

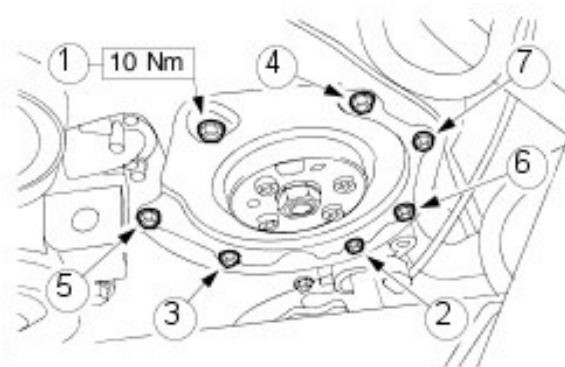
The references of the Original Equipment Manufacturer (OEM) are 1078581, XS4Q96605AF, 1198063.



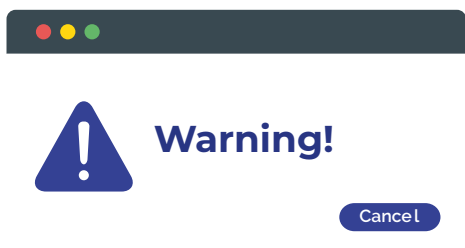
03 assembly

The assembly have a lot of **special characteristics**, not only for the type of the oil seal involved, but also for the special conditions of the shaft.

1. **Clean the surfaces** of the housing and shaft, free of grease, oil, and dirt.
2. **Insert the oil seal** into the shaft with the help of the white applicator.
3. Remove applicator and **fix the screws / nuts**. Tighten to **10 Nm**.



4. **Injector pump pulley:** the Ajusil sealant / gasket former (ref. 75000100 / 75000200) should be applied to the back of the pulley. This will seal the screw passages and the **joint between the shaft and the pulley**. Tighten the bolts to **42 Nm**.



If you **don't apply** sealant, **it will result in leakage** from this area and it could be confused with leakage from the seal.



Ajusil **silicone sealant** at the back of the injector pump pulley