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# TECHNICAL REPORT

Crankshaft seal assembly  
71005300 on Mercedes Benz  
and Chrysler 3.0 CDI engines



## 01 Introduction

The purpose of this report is to provide a detailed guide for the correct installation of the 71005300 oil seal.

It is a **cover seal**, which is mounted on the rear of the crankshaft of the vehicle. This seal is fitted on Chrysler 3.0 CRD, JEEP 3.0 CRD and Mercedes-Benz 3.0 CDI and CLS BlueTec models.

It is important to install the seal correctly to **avoid oil leaks** that could lead to future engine problems.



reference 71005300

## Assembly procedure 02

### 01 | Preparation

Make sure you have all the necessary tools before you begin, in this case:

- Crankshaft seal with cover 71005300 .
- Torque wrench.
- 10 M6x20 bolts with washer and 10 socket.

### 02 | Cleaning

Before installing the crankshaft seal, ensure that the surface of the mounting area is clean and free of contaminants. Use a suitable solvent to clean off any dirt and dry thoroughly.

### 03 | Inspection

Visually check the crankshaft and make sure there are no defects such as scratches or cracks.

### 04 | Installing the seal

Place the crankshaft seal in its corresponding place, checking that it is centered and aligned correctly. Apply even pressure to ensure a good seal.

## 03 Aspects to take into account

### IMPORTANT

This is a PTFE (Polytetrafluoroethylene) seal so **neither the lip nor the shaft should be lubricated.**

You should not remove the applicator yet.

#### 01 | Fixing

Tighten the cover fixing screws to a torque of 15 Nm in a crisscross pattern to ensure even tightening.

#### 02 | Removing the applicator

At this point, you can remove the applicator, being careful not to damage the sealing lip.

#### 03 | PTFE Seal Precautions:

Do not lubricate the sealing lip.

Avoid contact with aggressive products.

Wait at least 4 hours before starting the engine, so that the lip seats properly on the shaft.

#### 04 | Using threadlocker on screws:

It is advisable to **apply Ajulock** locking agent to the flywheel bolts. This will help prevent unwanted loosening and leaks.

