

# Technical Bulletin

## PTFE Oil Seals

### Introduction

FAI offer a large range of Oil Seals using the latest technology **PTFE** (Polytetrafluoroethylene) material on the seal lip. This modern material creates a **perfect low friction seal** between the rotating shaft and the external environment.



**FAI  
OS1002R**



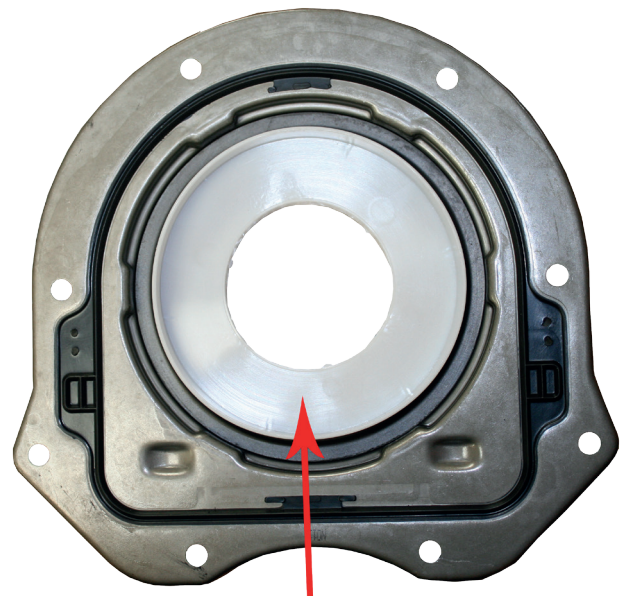
**Damaged PTFE seal lip.**

Due to **incorrect installation, PTFE sealing surfaces can be damaged**. The method in which the PTFE lip is produced and cut creates a 'memory' behaviour causing the material to constantly try and return to its original shape. This material creates a tight seal against the shaft and **if damaged on installation severely impacts the integrity of the seal**.

### Warning!

As you can see from the diagram to the right, each PTFE oil seal contains a plastic sleeve that is designed to maintain the tolerance and protect the sealing lip. It is also an integral part of the installation process.

**DO NOT REMOVE THIS SLEEVE BEFORE FITTING. IT WILL DISENGAGE AS PART OF THE INSTALLATION.**



**Installation Sleeve**

## Continue for installation tips



**Best Availability. Best Value.  
Best Quality. Best Service.**

LEAF9257

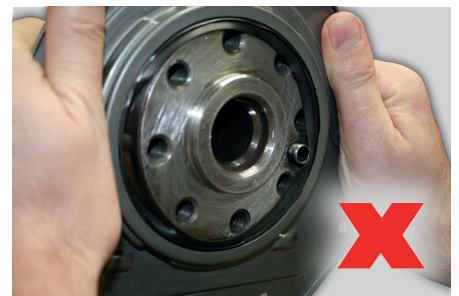
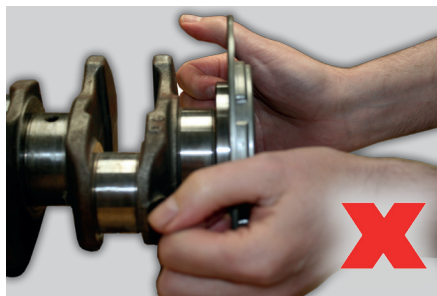
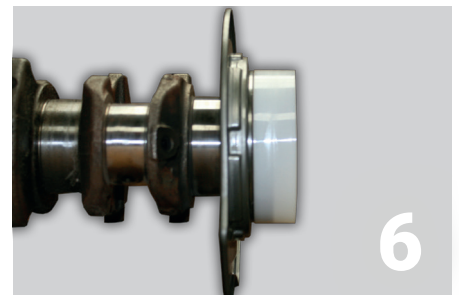
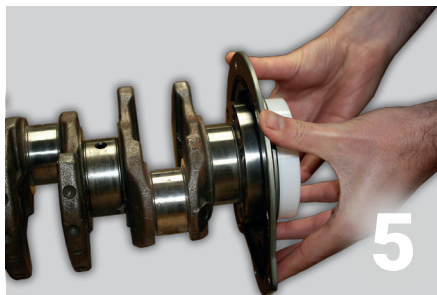
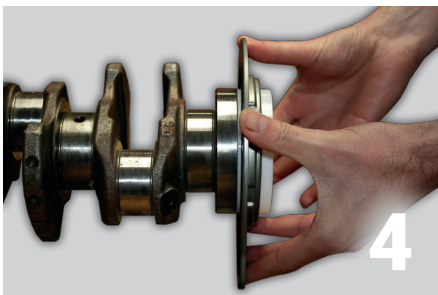
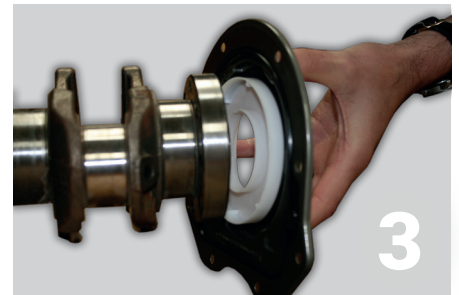


# Technical Bulletin

## PTFE Oil Seals

### Installation Tips

- 1 Remove any oil or grease. The shaft surface must be completely dry throughout installation.
  - 2 Ensure that any imperfections or sharp edges on the shaft surface are removed.
  - 3 With the plastic sleeve still in place, line up the shaft face and plastic sleeve face.
  - 4 Apply even pressure to the seal and push on to the crankshaft.
  - 5 Carefully push the seal on to the crankshaft.
  - 6 Remove the plastic sleeve.
  - 7 The seal is now in place. Leave engine for 4 hours before starting to allow PTFE memory seal formation.
- X** Do not fit seal without plastic fitting aid or correct manufacturer tool. Do not lubricate.



Best Availability. Best Value.  
Best Quality. Best Service.

LEAF9257

