INSTALLATIONADVICE

from BG Automotive

#### **THE**SYMPTOMS

Leaking oil.

BGA

- Engine management light is on.
- Contamination of critical components such as clutches, electrical systems, drive and Timing Belts.
- Poor running or loss of power (Electronic VVT systems).
- Engine damage.

#### THEREASON

- The Seal will not provide adequate sealing if there is visual wear that can be detected by touch or low level measuring equipment.
- Contamination within the sealing area adheres to the engine oil creating an abrasive paste that wears away areas of contact.
- Small lines or scoring around the circumference of the machined part.
- The service life of the Seal can be affected by different environments from thermal expansion to composite materials.

#### **THESOLUTION**

Double bladed 45° seals that incorporate a wiper seal in front of the main blades will combat the erosive paste considerably compared to the common single 45° bladed seal.



REPLACE ANY COMPONENT THAT WILL AFFECT THE OPERATION OF THE NEW SEAL.

# **OIL SEAL DAMAGE**

General advice





BGA products are to be replaced by an experienced automotive installer. This information is to be used as reference only. Always seek manufacturer specification.

For more information, call +44 (0) 1793 491 777 or email technical@bgautomotive.co.uk

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#### **THEPREPARATION**

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- Clean the area around the Seal especially the wearing surfaces.
- Check the replacement part is correct by studying the markings on the Seal.
- The sizing of a Seal is not written the same as a normal engineered part. It appears like this: **A** × **B** × **C**:

"A" equals the inner or crankshaft diameter

- "B" equals the outer diameter or seal housing
- "C" equals the seal thickness or depth of seal housing
- Inspect the machined components for wear and replace the worn parts.
- The Seal application tool is orientation specific.
- Check the Seal lips are seated correctly.

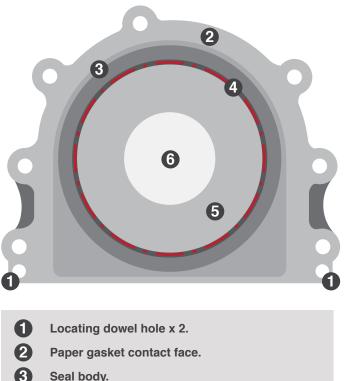
#### **THEINSTALLATION**

- When removing and installing a new Seal, it is recommended that manufacturer approved tools are used to prevent damage to the sealing surface.
- Most Seals come mounted on a plastic guide which also protects the Seal during installation.
- DO NOT lubricate Crankshaft Seals, fit them dry.
- Lubricate all other Seals with engine specific oil, prior to fitment.
- The use of a Seal fitting tool (or dolly) is recommended to prevent damage.

DO NOT USE A SCREW DRIVER TO REMOVE THE SEAL AS THIS MAY CAUSE SURFACE DAMAGE.

## **OIL SEAL INSTALLATION**

General advice



- Seal body.
- (4) Main section seal.
- 5 Fitment dolly / Installation tool.
- 6 Engine side crankshaft.

APPLICATION TOOL SIDE VIEW





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