

SERVICE BULLETIN



M-1148

February 13, 2004

INNER PRIMARY MAINSHAFT OIL SEAL CHANGE

Purpose

The purpose of this service bulletin is to inform dealers of a change in the Big Twin inner primary mainshaft oil seal. The new seal is an improved design. The part number of this new seal is 12052A. The current service manual procedure is still correct but there are certain precautions that must be taken when installing the new oil seal.

NOTE

Use all existing inventory of 12052 seals before using the new 12052A seal.

Motorcycles Affected

All Big Twin models, late 1984 and later. The approximate date for this change to take place in new vehicle production is 2/4/04.

Required Dealer Action

Notify service personnel of the following precautions to take when performing the oil seal installation procedure.

See Figure 1. Note the difference in appearance between the old and new oil seals. The new seal is installed in the same orientation as the old seal; with the lip garter spring facing toward the mainshaft bearing.

See Figure 2. The lip garter spring side of the new oil seal is also identified by the words "OIL SIDE".

NOTE

To facilitate installation of the oil seal, coat the outer diameter of the seal with clean engine oil just prior to installation.

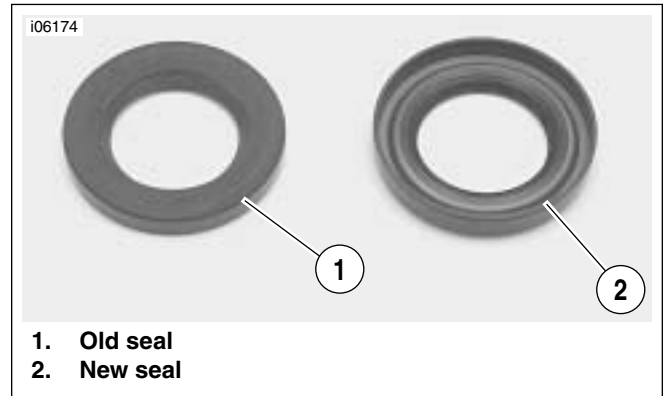


Figure 1. Comparison of Old and New Oil Seals

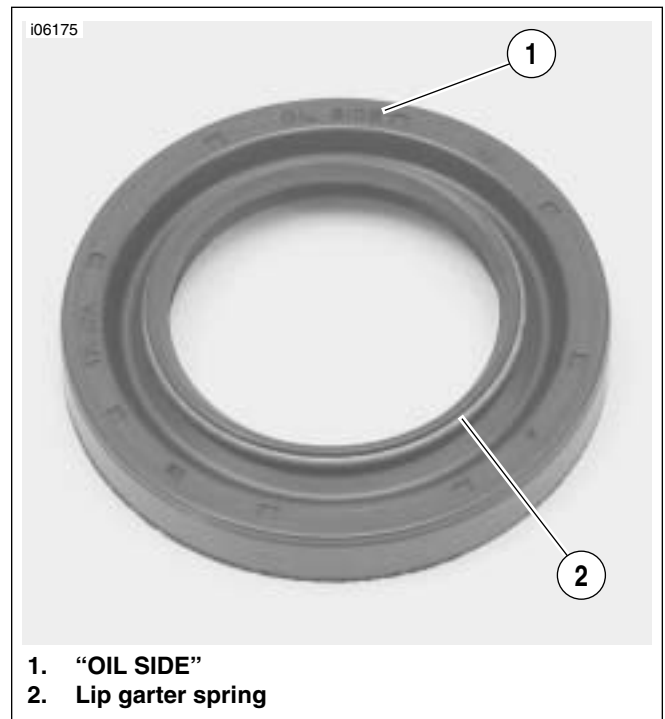


Figure 2. Lip Garter Spring Side of New Oil Seal Identified by the Words "OIL SIDE"

IMPORTANT NOTE

In the interest of preserving customer safety and satisfaction, always check for outstanding recalls whenever any motorcycle is brought into your dealership for either maintenance or service.

ROUTING	SERVICE MANAGER	SALES MANAGER	PARTS MANAGER	LEAD TECHNICIAN	TECHNICIAN NO.1	TECHNICIAN NO. 2	TECHNICIAN NO. 3	TECHNICIAN NO. 4	RETURN THISTO
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Installation Procedure

1. Lubricate the O.D. of the **new** seal with clean engine oil.
2. See Figure 3. Using a suitable seal driver, press squarely on the outer edge of the seal carrier to start the seal into the primary housing.

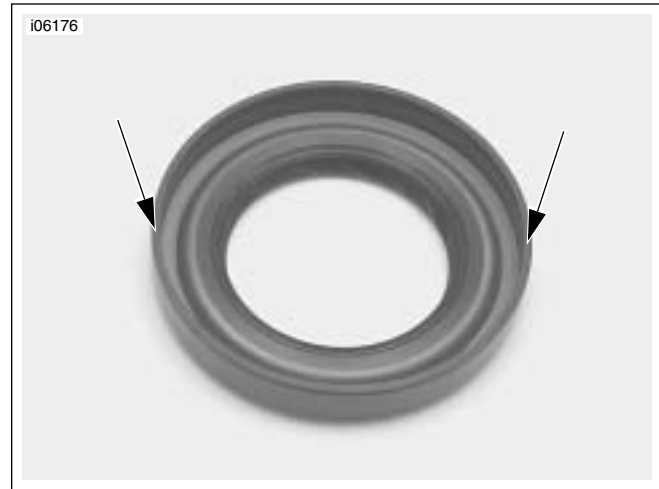
CAUTION

It is important that the new oil seal be installed with a seal driver that will press only against outer rim of oil seal, NOT against the inner area.

3. See Figure 4. Continue pressing oil seal until its outer edge is flush with machined surface of inner primary housing.

NOTE

The minimum allowable depth of the seal is reached when the outer edge of the seal carrier is flush with the machined surface of the primary housing. The maximum allowable depth of the seal is reached when the seal carrier contacts the mainshaft bearing snap ring.



**Figure 3. Correct Method of Installing New Oil Seal:
Press Only on Rim of Seal Carrier**



**Figure 4. Oil Seal Properly Installed in
Inner Primary Housing**