

# Service-Information Motorcycle



**BMW NA**  
Service Department

Group: 31  
Front Fork

August, 1988  
31 021 88  
(2320)

For USA Only

## Improved Fork Seals - R80 and R100 Models - 1985 On

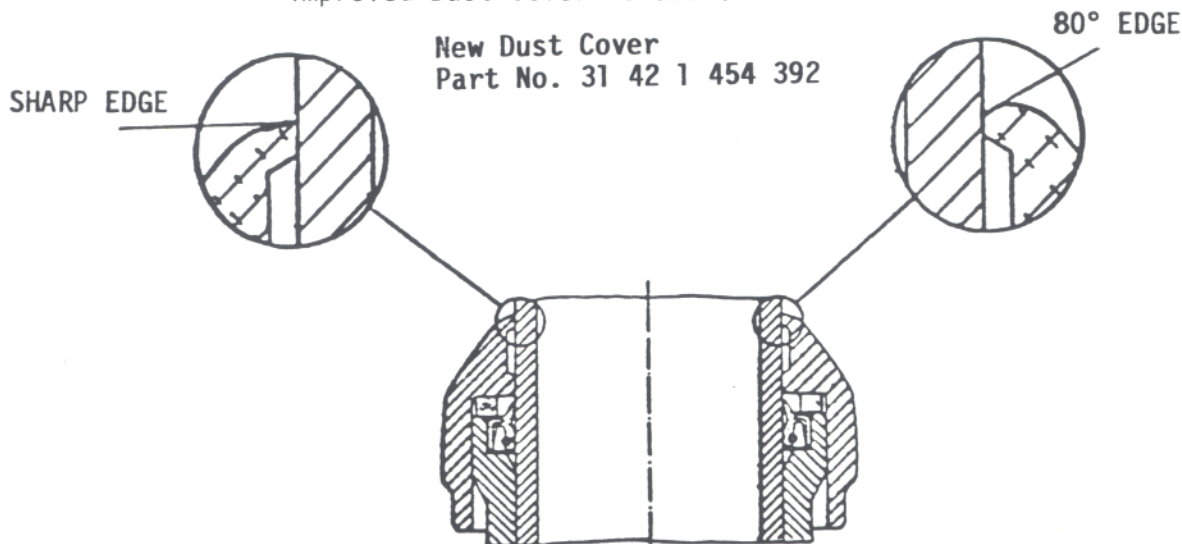
**Problem:** Leaking Fork Seals

**Information:** As described in Service Information 31 019 88 (2279) titled: "Improved Fork Seals - K100 and K75 models" the Boxer models are now also produced with a Fork Seal which has an additional dust lip.

In addition to the improved Fork Seal, the new rubber dust covers also have a sharp scraper edge.

**Fork Seal Replacement:** Proceed as described in Service Information 31 019 99 (2279) for the K models.

1. Use a rubber Dust Cover with a sharp scraper edge. The improved Dust Cover has a scraper with squared edge (approximately 90°). The older style Dust Cover has a slightly rounded scraper edge (approximately 80°). It is difficult to visibly notice the difference. Ensure that only the improved Dust Cover is used.



2. An improved, dual-lip Fork Seal with an extra scraper lip is available under:

**Part No. 31 42 2 310 199**

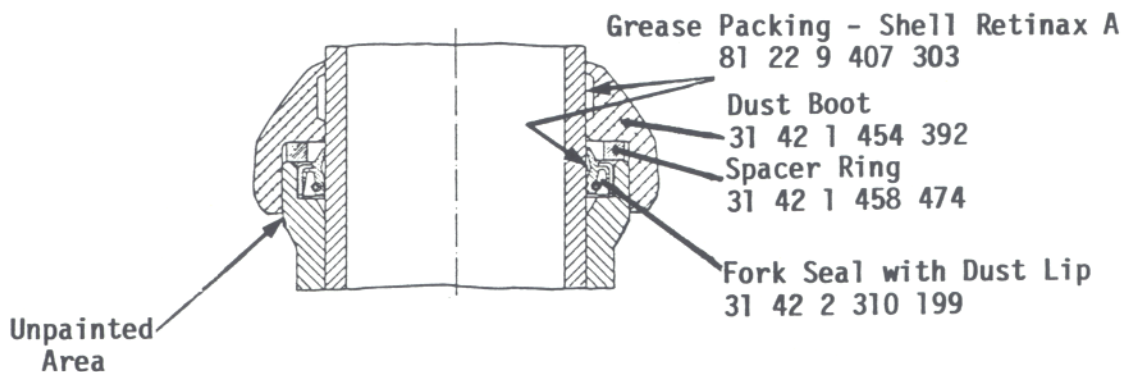
To ensure that the Fork Seal's scraper lip does not contact the Dust Cover, a Spacer Ring must be placed on top of the Fork Seal.

**Part No. 31 42 1 458 474**

X

**Note:**

The improved rubber Dust Covers are slightly shorter than the earlier type. This will leave a 1.1 mm wide unpainted band under the Dust Covers. This unpainted band can be covered with frame paint - Part Number **51 91 1 453 483** to match the black slider.



**Motorcycles now in Production:**

On motorcycles now in production, the slider tube is machined to a sufficient depth to prevent the fork seal (when fully pressed in) from touching the dust cover. The snap ring used on K models **is not** used on R models.

**Important:**

Whenever the fork tubes are taken apart, clean the dust covers and check them by slipping them over the fork tube and ensure that they are tight (without clearance) and that the scraper edges are straight and sharp. Before mounting the dust covers, fill the grease pockets with:

Shell Retinax A - Part No. 81 22 9 407 303 - 150 gr

Very truly yours,

BMW OF NORTH AMERICA, INC.

Frank Stevens  
National Service Manager

Richard Dampf  
National Technical Manager

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