



SIB 34 01 20

2020-03-24

FRONT BRAKE CALIPER WEEPAGE WHEN PARKED

This SIB is in addition to PuMA measure 64756713-11 Front Brake Caliper Weeping when Parked

What's New compared to PuMA measure (Specific text highlighted):

- New part numbers

MODEL

E-Series	Model Description
K50/11	R 1250 GS
K51/11	R 1250 GS Adventure
K52	R 1250 RT
K67	S 1000 RR

SITUATION

Front brake caliper weeping at the piston sealing ring or at the contact surface of the caliper parts when the motorcycle is parked / at standstill.

CAUSE

1. Piston sealing ring damaged
 2. Seal at the contact surface of the caliper parts damaged during installation
 3. Cavity cut in the piston groove
 4. Contaminated by particles during installation
 5. The surface of the piston sealing ring and groove base on the caliper side is too rough
- > see also description in attachment

CORRECTION

Perform a visual inspection of the front brake calipers.

1. Visible weepage at the interface.

If there is visible weepage at the separating surface of the saddle halves, the components must be replaced. A repair on the component is not possible.

2. Weepage in the piston seal

In the event of weeping in the piston seal, depending on the VIN / serial number, the brake calipers to take different measures.

From the following VIN, optimized calipers are installed ex works:

- K50 / 11 (black caliper) from VIN [REDACTED]
- K50 / 11 (gold caliper) from VIN [REDACTED]
- K51 / 11 (black caliper) from VIN [REDACTED]
- K51 / 11 (gold caliper) from VIN [REDACTED]
- K52 (black caliper) from VIN [REDACTED]
- K52 (gold caliper) from VIN [REDACTED]
- K67 from VIN [REDACTED]

2.1)- In the case of vehicles with a higher VIN than stated above, in the event of a weep, only replace the seal kit with the piston seal.

Attention: Use new part number seal kit 1 604 207

In addition to the VIN, the construction status of the brake calipers can also be determined using the serial numbers on the caliper body. From the following serial numbers, the seals should be replaced.

- Left caliper black 19234161517
- Right caliper black 19234150844
- Left caliper gold 19226143856
- Right caliper gold 19225173952

2.2) In vehicles with a lower VIN than those in Step 2.0 above, in the event of a weep, complete replacement of the caliper is necessary.

Attention: Use new part number 1 614 797/798 (black) or 1 614 827/828 (gold)

For both repairs, it is recommended that a test drive be carried out after the repair has been carried out with several powerful braking applications, even from a higher speed if traffic allows. This ensures setting the piston seals.

PARTS INFORMATION

Obtain and confirm the part numbers for your specific vehicle by entering the chassis number in either ETK or AIR which takes into account specific equipment and/or options.

Part Number	Description	Quantity
34 11 1 604 207	Seal kit	1
34 11 1 614 797	Black	1
34 11 1 614 798	Black	1
34 11 1 614 827	Gold	1
34 11 1 614 828	Gold	1

WARRANTY INFORMATION

This Service Information bulletin provides technical, diagnostic and repair-related information.

Eligible and Covered Work/Repairs

When used to repair a verified defect in materials or workmanship, the repair procedure information provided in this bulletin is covered under the terms of the BMW New Motorcycle Limited Warranty

To submit a claim, please following the established and applicable warranty policy and procedures (Labor/Part/Sublet – bulk materials) that apply to the repair being performed.

Refer to AIR for the corresponding defect code, flat rate la labor operations (including diagnosis) and the flat rate unit (FRU) allowances.

Only one Main labor operation code can be claimed per repair visit.

Work time (WT) labor operation codes require individual punch times and explanations on the repair order and in the claim comments section.

Supporting Materials

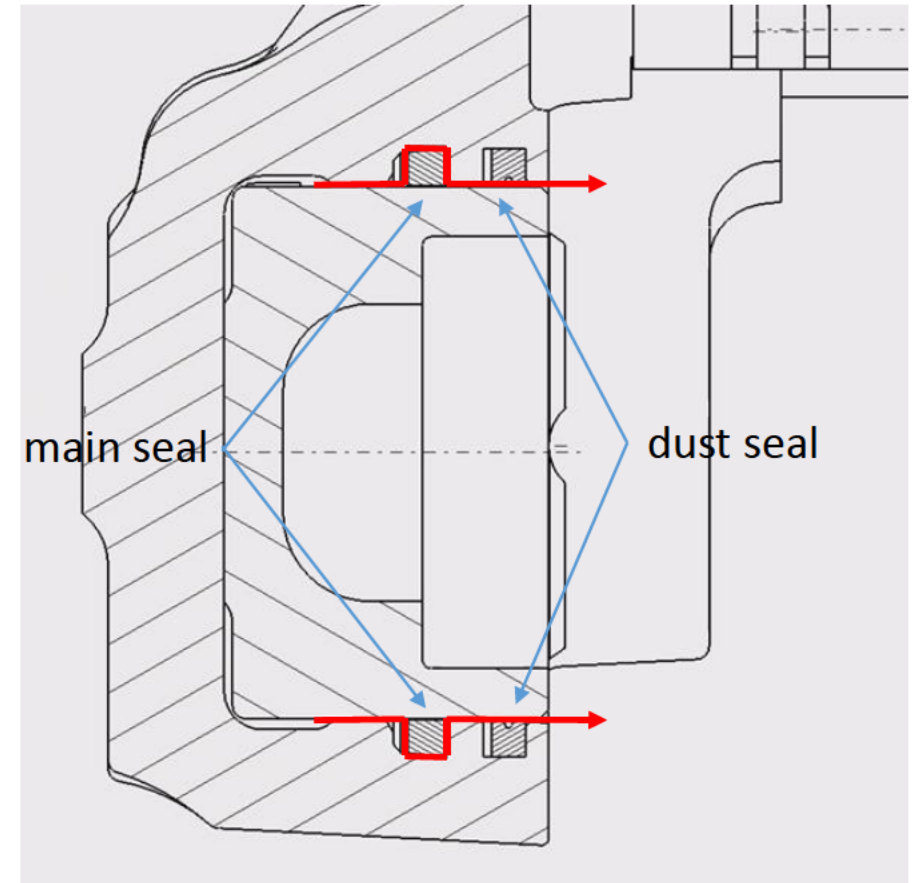
[picture_as_pdf 34 01 20 Attachment.pdf](#)

LOW PRESSURE WEEPING FRONT BRAKE CALIPER HAYES. ROOT CAUSE AND MEASURE

- **Core reason:**

Capillary effect between caliper body and primary seal due to too high finish roughness before launching the vehicle.

1. housing end : variation of finish roughness in the groove caused by the anodizing process
2. seal end : finish roughness due to production process (grinding)



Low pressure weepage front brake caliper Hayes. Root cause and measure

- **Corrective actions in vehicle production:**

Sept. 02nd 2019: conditioning of the brake calipers before vehicle assembly (simulation of driving cycles; brake in process); → work off the rough tops

Sept. 27th 2019 : Lowering the roughness values of the caliper body by modification of the process

cw 51/2019: Lowering the roughness values of the seal outer surface by reducing the forward feed rate while grinding

cw 03/2020 : Change of the production process of the seal to casting process