**Notice of recall 13V-617**

**Subject:** Fuel pump unit / additional fuel pump unit

**Model:** Model variants of R 1200 (K2x), K 1200 (K4x), K 1300 (K4x), K 1600 (K48), S 1000 RR (K46) across model years 2005-2012

**Details:** BMW Motorrad has ascertained that fuel pump units and depending on the model, additional fuel pump units, might develop cracks at the mounting location for the quick-action coupling. In very rare cases leaks can occur with a perceptible odor of fuel or the escape of fuel in small quantities.

Illustration: Examples of fuel pump flange with cracks (arrows) in the mounting location for the quick-action coupling. Left - No cracks or cracks that do not perceptibly extend to the edge. Right - Cracks extend to or past the edge.

**Vehicles affected:** In order to determine if a specific vehicle is affected by this Recall Campaign, it will be necessary to verify all vehicle VINs through a DCS Vehicle History Check. Based on the response of the system, either proceed with the repair or take no further action. Please note, affected VINs may not appear until 24-72 hours after the release of this bulletin.

**Note:** All the vehicles affected have a fuel pump unit with quick-action coupling for the fuel line integrated into the flange. In addition, the R 1200 GS (K25) models up to production date June 2005 and all R 1200 GS Adventure models have an additional fuel pump unit with quick-action coupling integrated into the secondary flange.

In the case of the R 1200 GS (K25), the quick-action coupling directly at the additional fuel pump unit was discontinued in June 2005, being replaced by a quick-action coupling in the fuel line. The R 1200 GS (K25/11) and the R 1200 GS (K25/31) are not fitted with an additional fuel pump unit.
NHTSA Statement: PERFORM THE PROCEDURE OUTLINED IN THIS SERVICE INFORMATION BULLETIN ON ALL AFFECTED VEHICLES BEFORE CUSTOMER DELIVERY OR THE NEXT TIME THE VEHICLE IS IN THE SHOP FOR MAINTENANCE OR REPAIRS.

BMW Motorcycle dealers must ensure recalls are completed after having been notified by BMW of North America, LLC (BMW Motorrad USA) that a safety-related defect or noncompliance exists in any motor vehicle or item of replacement equipment in the dealer's possession at the time of notification. In BMW NA's case, this notification would typically be made by the issuance of a recall notification in the form of a Service Information Bulletin (SIB) or transmission of a Dealer Communication System (DCS) recall message.

Under the National Traffic and Motor Vehicle Safety Act of 1966, as amended, if a recall campaign is announced by BMW NA, dealers must ensure that all recalls on vehicles and new items of replacement equipment are completed BEFORE delivery to the consumer. This means that dealers may not legally deliver new vehicles or new items of replacement equipment to consumers with an open recall.

The Safety Act also prohibits dealers from selling or leasing the vehicle or item of replacement equipment, unless and until the open recall has been completed BEFORE delivery. This also pertains to motorcycles in the Certified Pre-Owned program, and to items of replacement equipment.

Finally, BMW motorcycle dealers should not sell or use parts that have been recalled by BMW Motorrad USA. Please follow the specific instructions provided by BMW Motorrad USA on the return or disposition of the parts.

Production Solution: Since spring 2011 a support ring made of steel has been installed at the mounting location for the quick-action coupling in series production.

Illustration: Fuel pump flange with support ring (dark gray ring) at the mounting location for the quick-action coupling

Aftersales Solution: When next brought to the workshop, each vehicle affected by this issue will have to have the fuel pump unit and, depending on the model, the additional fuel pump unit checked. These units will have to be repaired or replaced as necessary, in accordance with the findings of the check (see work items 00 60 277 and 00 60 661 for the descriptions).

In the case of the R 1200 GS (K25, 0317), if the additional fuel pump unit requires replacement (quick-action coupling is no longer directly at the flange), the fuel distributor has to be replaced as well.

All the vehicle-specific descriptions are due to be published in the 03/2014 edition of the RSD (Repair and Service Data BMW Motorrad) DVD. From then on, always check the current edition of the RSD DVD for details.

Once the Technical Campaign has been completed, all fuel-pump units and additional fuel-pump units must have a support ring on mounting location for the quick-action coupling.
The repair described in this bulletin is covered under warranty regardless of time or mileage. Reimbursement for this Recall Campaign is through normal claim entry utilizing the following information:

**Overview of the variants for warranty processing are as follows:**

**All vehicles affected, except R 1200 GS Adventure and R 1200 GS (K25, 0307/0317)**
- **Variant 1:** Vehicles with fuel pump unit requiring repair
- **Variant 2:** Vehicles with fuel pump unit requiring replacement

**R 1200 GS Adventure (K25/02, 0382/0397; K25/12, 0380/0390; K25/32, 0470/0480)**
- **Variant 1:** Vehicles with fuel pump unit requiring repair
- **Variant 3A:** Vehicles with fuel pump unit requiring replacement
- **Variant 3B:** Vehicles with fuel pump unit and additional fuel pump unit requiring repair
- **Variant 3C:** Vehicles with fuel pump unit requiring replacement and additional fuel pump unit requiring repair
- **Variant 3D:** Vehicles with additional fuel pump unit requiring repair
- **Variant 4A:** Vehicles with fuel pump unit requiring repair and additional fuel pump unit requiring replacement
- **Variant 4B:** Vehicles with fuel-pump unit and additional fuel pump unit requiring replacement
- **Variant 4C:** Vehicles with additional fuel pump unit requiring replacement

**R 1200 GS (K25, 0307/0317)**
- **Variant 1:** Vehicles with fuel pump unit requiring repair
- **Variant 3A:** Vehicles with fuel pump unit requiring replacement
- **Variant 3B:** Vehicles with fuel pump unit and additional fuel pump unit requiring repair
- **Variant 3C:** Vehicles with fuel pump unit requiring replacement and additional fuel pump unit requiring repair
- **Variant 3D:** Vehicles with additional fuel pump unit requiring repair
- **Variant 5A:** Vehicles with fuel pump unit requiring repair and additional fuel pump unit and fuel distributor requiring replacement
- **Variant 5B:** Vehicles with fuel pump unit and additional fuel pump unit and fuel distributor requiring replacement
- **Variant 5C:** Vehicles with additional fuel pump unit requiring replacement and fuel distributor requiring replacement

**Special Tool Set:** One Special Tool set 83 30 2 288 532 will be autoshipped to all dealers. This tool set can be claimed one time per dealer by adding the part number to a single warranty claim related to this campaign.

**Warranty Processing Information:**
- **All FRU amounts are on page 7**
- **Variant 1:** Vehicles with fuel pump unit requiring repair
  - **Defect code:** 00 16 13 00 00
  - **Labor code:** 00 60 277*
  - **Part number:** 16 14 8 549 916

- **Variant 2:** Vehicles with fuel pump unit requiring replacement
  - **Defect code:** 00 16 13 00 00
  - **Labor code:** 00 60 278*
  - **Part numbers:** see EPC/ETK
  - see EPC/ETK
  - 16 14 7 722 876
  - 16 12 1 176 918

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Variant 3A: Vehicles with fuel pump unit requiring replacement
Defect code: 00 16 13 00 00 Checking fuel pump unit.
Labor code: 00 60 278* Checking and replacing fuel pump unit
Part numbers: see EPC/ETK Fuel pump unit
16 11 7 677 883 Gasket / flange seal
16 14 7 722 876 Preformed seal

Variant 3B: Vehicles with fuel pump unit and additional fuel pump unit requiring repair
Defect codes:
- 00 16 13 00 00 Checking fuel pump unit
- 00 16 14 00 00 Checking additional fuel pump unit
Labor codes:
- 00 60 277* Checking and repairing fuel pump unit
- 00 60 661 Checking and repairing additional fuel pump flange
Part number: 16 14 8 549 916 Set, support rings (x2)

Variant 3C: Vehicles with fuel pump unit requiring replacement and additional fuel pump unit requiring repair
Defect codes:
- 00 16 13 00 00 Checking fuel pump unit
- 00 16 14 00 00 Checking additional fuel pump unit
Labor codes:
- 00 60 278* Checking and replacing fuel pump unit
- 00 60 661 Checking and repairing additional fuel pump flange
Part numbers: 16 14 8 549 916 Set, support rings
- see EPC/ETK Fuel pump unit
- 16 11 7 677 883 Gasket / flange seal
- 16 14 7 722 876 Preformed seal

Variant 3D: Vehicles with additional fuel pump unit requiring repair
Defect code: 00 16 14 00 00 Checking additional fuel pump unit
Labor code: 00 60 279* Checking and replacing additional fuel pump flange
Part number: 16 14 8 549 916 Set, support rings

Variant 4A: Vehicles with fuel pump unit requiring repair and additional fuel pump unit requiring replacement
Defect codes:
- 00 16 13 00 00 Checking fuel pump unit
- 00 16 14 00 00 Checking additional fuel pump unit
Labor codes:
- 00 60 277* Checking and repairing fuel pump unit
- 00 60 662 Checking and replacing additional fuel pump flange
Part numbers: 16 14 8 549 916 Set, support rings
- see EPC/ETK Fuel pump unit
- 16 11 7 677 883 Gasket / flange seal

Variant 4B: Vehicles with fuel-pump unit and additional fuel pump unit requiring replacement
Defect codes:
- 00 16 13 00 00 Checking fuel pump unit
- 00 16 14 00 00 Checking additional fuel pump unit
Labor codes:
- 00 60 278* Checking and replacing fuel pump unit
- 00 60 662 Checking and replacing additional fuel pump flange
Part numbers: see EPC/ETK Fuel pump unit
- see EPC/ETK Flange
- 16 11 7 677 883 Gasket / flange seal (x2)
- 16 14 7 722 876 Preformed seal

Variant 4C: Vehicles with additional fuel pump unit requiring replacement
Defect code: 00 16 14 00 00 Checking additional fuel pump unit
Labor code: 00 60 281* Checking and replacing additional fuel pump flange
Part numbers: see EPC/ETK Flange
- 16 11 7 677 883 Gasket / flange seal
Variant 5A: Vehicles with fuel pump unit requiring repair and additional fuel pump unit and fuel distributor requiring replacement

Defect codes:
00 16 13 00 00 Checking fuel pump unit.
00 16 14 00 00 Checking additional fuel pump unit

Labor codes:
00 60 277* Checking and repairing fuel pump unit
00 60 662 Checking and replacing additional fuel pump flange

Part numbers:
16 14 8 549 916 Set, support rings
16 11 7 675 116 Flange
16 11 7 677 883 Gasket / flange seal
13 53 7 703 172 Fuel distributor
13 53 7 563 456 Fuel Hose
13 31 7 659 120 Connecting Sleeve
16 12 1 176 918 Hose clamp (x2)

Variant 5B: Vehicles with fuel pump unit and additional fuel pump unit and fuel distributor requiring replacement

Defect codes:
00 16 13 00 00 Checking fuel pump unit.
00 16 14 00 00 Checking additional fuel pump unit

Labor codes:
00 60 278* Checking and replacing fuel pump unit
00 60 662 Checking and replacing additional fuel pump flange

Part numbers:
16 14 7 684 348 Fuel pump unit with lever-type fuel level sensor
16 11 7 675 116 Flange
16 11 7 677 883 Gasket / flange seal (x2)
16 14 7 722 876 Preformed seal
13 53 7 703 172 Fuel distributor
13 53 7 563 456 Fuel hose
13 31 7 659 120 Connecting sleeve
16 12 1 176 918 Hose clamp (x2)

Variant 5C: Vehicles with additional fuel pump unit requiring replacement and fuel distributor requiring replacement

Defect code:
00 16 14 00 00 Checking additional fuel pump unit

Labor code:
00 60 281* Checking and replacing additional fuel pump flange

Part numbers:
16 11 7 675 116 Flange
16 11 7 677 883 Gasket / flange seal
13 53 7 703 172 Fuel distributor
13 53 7 563 456 Fuel hose
13 31 7 659 120 Connecting sleeve
16 12 1 176 918 Hose clamp (x2)

*Main Work; Use applicable variant labor operation, each respectively include all repair procedures to complete the task with allowance for necessary ancillary tasks (e.g., visual inspection, lubrication, cleaning parts etc.) and administrative tasks. Only one main labor operation can be claimed per repair visit. All other labor operations within a variant or for any other line(s) must be claimed using plus code labor operations. Please refer to the Warranty Policy and Procedures Manual regarding add-ons, proper support, documentation, claims submission and archiving requirements as applicable.

The following work items are described starting on page 8 of this bulletin:
00 60 277 Checking and repairing fuel pump unit
00 60 661 Checking and repairing additional fuel pump unit
See RSD for fuel pump replacement instructions if necessary.
Special Cases

1) A series production fuel pump is found: If at any time it is found that an affected motorcycle already has a series production fuel pump with supporting metal ring or series production additional fuel pump with supporting metal ring (from a previous replacement) there is no need to continue with repairs. Submit a warranty claim under defect code 00 16 13 00 00 /or 00 16 14 00 00 using the model appropriate “Checking and repair” labor code (no parts necessary).

2) The customer is requesting reimbursement for prior repairs of the fuel pump &/or additional fuel pump, motorcycle in the workshop:

   1. Review and verify the repair (fuel pump replacement) on the customer-pay invoice (authorized BMW Motorrad dealer only) to ensure it addresses the issue described in this Service Information bulletin.
   2. Reimburse the customer (labor and parts).
   3. Depending on the previous repair date, the customer may have received a non-current production fuel pump (&/or additional fuel pump) without supporting metal ring. Therefore it is necessary to perform the recall repair outlined in this bulletin. (Note: See special case #1 above if a fuel pump (&/or additional fuel pump) with supporting metal ring is found.
   4. Submit a warranty claim under defect code 00 16 13 00 00 /or 00 16 14 00 00 as appropriate for the repair &/or replacement. As part of the claim, submit the customer-paid repair expense as follows:
      Sublet Code 3
      Dollar amount (with no markup)
      Comment: Reimbursement for allowable expenses related to the previous customer pay repair.
      Retain the "original" customer pay invoice in your files; this documentation may be requested by BMW during the claim review process.

3) The customer is requesting reimbursement for prior repairs of the fuel pump &/or additional fuel pump, motorcycle is not in the workshop:

   If your dealership is presented with a customer-pay invoice for a previous repair to address the issue outlined in this bulletin but the motorcycle is not in the workshop, proceed as follows:
   1. Scan and save to a file a copy of the "original" customer-pay invoice (authorized BMW Motorrad dealer only). Retain the "original" customer-pay invoice in your files.
   2. Submit a VIN-specific email to Motorrad.Warranties@bmwna.com with the "item 1 file" directly above as an attachment. Include in the subject line “Fuel Pump Recall 13V-617”.
   3. Warranties will confirm receipt by return email.
   4. Proceed and submit a claim for the prior customer-pay repair expense as follows:
      Defect Code 85 99 00 12 NA
      Sublet Code 3
      Dollar amount (with no markup)
      Comment: Reimbursement for allowable expenses related to the previous customer pay repair.
      Retain the "original" customer pay invoice in your files.
   5. BMW will review the claim and supporting documentation.
   6. If the claim is approved, the claim credit will be issued through DCSnet.
   7. Your dealership can now issue a reimbursement to the customer for the previous repair.

This claim submission will not close the "Open" Safety Recall, since the vehicle was not available for inspection/repair.

Contact: Service and Technical Manager
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<td>K 1600 GTL</td>
<td>K48</td>
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<td>00 16 13 00 00</td>
<td>5 FRU</td>
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</tbody>
</table>
When checking, note the distance of the cracks from the edge (arrow) of the mounting location.

Note
The number and width of cracks are of no relevance in the assessment.

If leaks are present, if cracks in the mounting location extend to the bottom (arrow), or if the mounting location diameter exceeds a certain measurement, then the fuel pump must be replaced with the current production design which includes the reinforcing ring.

Check
Check the fuel pump unit / additional fuel pump unit for cracks extending all the way to the edge

Result
No cracks or cracks that do not perceptibly extend to the edge (arrow with check mark).

Measure
Repair the fuel pump unit.

Result
Cracks extend to or past the edge (arrow with x).

Measure
Replace the fuel pump unit / additional fuel pump unit.

Check all model variants

Checking fuel pump unit and if applicable additional fuel pump unit for cracks

Requirement
No support ring installed in shaded area (arrow).

Clean fuel pump unit / additional fuel pump unit (1) where indicated (arrow) with a solvent-free cleaning agent and a cloth.

Fuel pump unit / additional fuel pump unit (1) is absolutely clean, dry and free of dust and grease.

Attention
The use of unsuitable cleaning and care products can damage vehicle components. Do not use solvents such as cellulose thinners, cold cleaners, fuel or the like, and do not use cleaning products that contain alcohol.

When checking, note the distance of the cracks from the edge (arrow) of the mounting location.

1: Preparatory work
See latest RSD for applicable model

Warning!
Fuel is flammable and is hazardous to your health. Observe all applicable safety regulations.

2: All model variants

3: When checking, note the distance of the cracks from the edge (arrow) of the mounting location.

Note
The number and width of cracks are of no relevance in the assessment.

If leaks are present, if cracks in the mounting location extend to the bottom (arrow), or if the the mounting location diameter exceeds a certain measurement, then the fuel pump must be replaced with the current production design which includes the reinforcing ring.

4: Check
Check the fuel pump unit / additional fuel pump unit for cracks extending all the way to the edge

Result
No cracks or cracks that do not perceptibly extend to the edge (arrow with check mark).

Measure
Repair the fuel pump unit.

Result
Cracks extend to or past the edge (arrow with x).

Measure
Replace the fuel pump unit / additional fuel pump unit.
5: Repairing fuel pump unit / additional fuel pump unit

Determining size of support ring

Check
Position each end of gauge (16 1 731) respectively on the mounting location (1) of the fuel pump unit and where applicable on the additional fuel pump unit.

Note
The end of the gauge with a dimple is wider than the end without a dimple.

Result
The gauge is difficult to turn, sticks when turned or cannot be pushed on.

Measure
Replace fuel pump unit / additional fuel pump unit.

Result
Gauge can be turned without snagging or sticking.

Measure
Select the support ring size on the basis of the gauge.

<table>
<thead>
<tr>
<th>Technical data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gauge (16 1 731) end without dimple</td>
</tr>
<tr>
<td>Support ring without mark</td>
</tr>
<tr>
<td>Gauge (16 1 731) end with dimple (arrow)</td>
</tr>
<tr>
<td>Support ring with mark (arrow)</td>
</tr>
</tbody>
</table>

6: Mounting adapter on fuel pump unit

Only for 0507/0517 - S 1000 RR (K46)

Remove screws (1).
Place adapter mounts (16 1 735) in position on left and right.
Install screws (1).

<table>
<thead>
<tr>
<th>Tightening torques</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel pump to fuel tank</td>
</tr>
<tr>
<td>M5 x 20</td>
</tr>
</tbody>
</table>

7: All Model variants

Lubricate support ring (1) on the inside (arrow) with the lubricant enclosed in the tool kit.
8: **All Model variants**

Place support ring (1) in position.

Position support ring (1) in such a way that the trimmed side (arrow) is toward pins (2) (if present) and is not blocked.

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9: With support ring (1) in position.

Open latch (2) for the fuel delivery line and, applying light pressure, press guide adapter (16 1 733) into the female coupling, making sure that release pin (3) is seated in the recess (arrow) of the counter-flange.

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10: Hold selected support ring (1) in position and, if applicable, align the trimmed side with the marks.

Place thrust piece (16 1 734) in position.

11: Position press-fitting tool (16 1 732) on the fuel pump unit / additional fuel pump unit (1) and secure

Align press-on screw (2) and position it at thrust piece (16 1 734).

Tighten press-on screw (2) only to the specified tightening torque and press-fit support ring (3).

**Note**
The application of excessive tightening torque will result in damage to the fuel pump / additional fuel pump flange.

<table>
<thead>
<tr>
<th><strong>Tightening torques</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Tightening torque of press on screw</td>
</tr>
</tbody>
</table>

12: After press-fitting the support ring, remove press-fitting tools 16 1 732/733/734 and if used 735.

**Finishing work**

13: Check the work performed achieved the intended purpose. Assemble per latest RSD for applicable model.

**Attention:** Lightly touching the latching pin of the female connector can cause the connector to latch. If this happens and force is applied in an attempt to join the male and female elements of the quick-action coupling, damage to the O-rings can result, and the O-rings will leak. Make sure that the latch is open/pressed when you connect the two elements of the quick-action coupling in the fuel lines.