Retail Operator / General Manager	Sales – Motorcycles	Sales – Used Motorcycles	Business Manager (F&I)	Service	Parts & Accessories	Administration
Date: April 2015 Bulletin #: 33 001 15 (007)R3		Source: SI 06/2015 Name: Gery Torok Title: PuMA Technical Specialist			Revised July 2015	

BMW Motorrad USA

Service Information Bulletin

Notice of Recall 15V-141

Subject: Wheel flange

Models: K2x/K4x
R 1200 GS, R 1200 RT, R 1200 GS Adventure, R 1200 R, R 1200 S, K 1200 R Sport, R 1200 ST, HP2 Megamoto, HP2 Enduro, HP2 Sport, K 1200 S, K 1200 R, K 1200 GT, K 1300 S, K 1300 R, K 1300 GT.

Details: BMW Motorrad has ascertained within the framework of maintenance, cracks in the wheel flange can occur as a consequence of over tightening of the rear wheel bolts.

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.

Production Solution: Wheel flanges made of steel have been used in series production starting April 2010. The last models were switched to steel wheel flanges in April 2011.

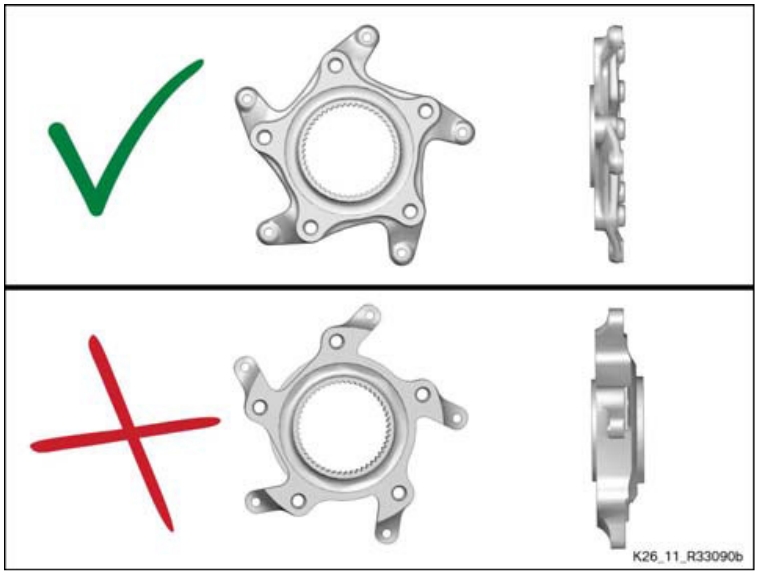

Illustration: Wheel flange

- Top: Steel wheel flange
- Bottom: Aluminum wheel flange

Service solution: All vehicles affected by this issue must have the aluminum wheel flange removed and replaced with a steel wheel flange.
New special tools and a new repair procedure have been developed for this purpose.

Note: The recall campaign does not have to be carried out on a vehicle that already has a steel wheel flange fitted. In this case you are requested to notify your Aftersales Area Manager, so that the campaign status can be set to "done" for the vehicle in question.
Vehicles that have been fitted with a steel wheel flange within the framework of repair work billed to BMW Motorrad are not affected by this recall campaign.

Visual inspection: The visual inspection of the aluminum wheel flange for cracks will no longer be accepted. Any bike found to have the aluminum wheel flange must have the flange replaced with a steel wheel flange.

Important:
- The new tools are designed so that the wheel flange can be replaced on the vehicle. The rear drive remains installed in the rear wheel swinging arm.
- The wheel flange pull-off test required in the past is no longer necessary and has been deleted; it no longer applies and no other test has been substituted for it. With the new special tools the aluminum wheel flange is pulled off cold. Installation of the steel flange is then straightforward if little force is required for pulling off the aluminum flange.
- **In order to avoid repair faults, it is absolutely essential to ensure that the steel wheel flange is heated to an installation temperature of 150 °C.**
- After installation of the steel wheel flange, the circlip must engage completely in the groove of the wheel axle (it must be possible to turn the circlip in the groove with the tool).
- With a steel wheel flange fitted, lateral runout of the rear brake disc tends to be slightly less than is the case with an aluminum wheel flange, so it is no longer necessary to check lateral runout after this repair.

Strict compliance with the repair instructions set out in the repair manual is essential (see attached work item 00 60 301 for a detailed description)!
The work item in the attachment applies by analogy for the other models affected.

Note: All relevant repair items are being revised accordingly and can be consulted on the RSD (Repair and Service Data BMW Motorrad) DVD, edition 05/2015 and later.

NHTSA Statement: PERFORM THE PROCEDURE OUTLINED IN THIS SERVICE INFORMATION 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.

Warranty processing

Defect code	Description
00 00 33 42 00	Replacing wheel flange

FRU number	Description
00 60 301*	Renewing wheel flange on bevel gears

Part numbers	Description
33 11 7 722 831	1x Flange
33 11 8 521 832	1x Spacer ring
33 11 7 665 055	1x Cover
33 17 7 709 205	5x Screw
07 11 9 907 129	1x O-ring
07 11 9 905 076	1x Circlip

Special tool	
Part number	**Description**
83 30 2 407 695	Set of assembly tools

Note: One tool set has been auto shipped per BMW's Automatic Tool Shipment Program. This **one** tool set can be claimed one time per dealer by adding the part number to a single warranty claim related to this campaign.
Additional inventory may be ordered through normal parts channels.

*Main Work: These main labor operations 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 for any other line(s) must be claimed using plus code labor operations. For FRUs amounts see chart on page 4
Please refer to the Warranty Policy and Procedures Manual regarding add-ons, proper support, documentation, claims submission and archiving requirements as applicable.

Prior Customer Pay Repairs: If a customer requests reimbursement for a previously performed repair, please follow the procedure below.

1. **Review and verify the repair (Wheel Flange) on the customer-pay invoice (authorized BMW Motorrad dealer or third party service provider) to ensure it addresses the exact issue described in this Service Information Bulletin, specifically, the aluminum wheel flange removed and replaced with a steel wheel flange.**
   Note: Depending on the previous repair date, the customer may have received an aluminum wheel flange. Therefore it would be necessary to perform the recall repair outlined in this bulletin.
2. **Reimburse the customer (labor and parts).**
3. **Submit a warranty claim under "vehicles already done" defect code as appropriate for the 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.

Warranty processing of "vehicles already done"

Defect code	
00 00 33 42 00	Replacing wheel flange

FRU number	
00 60 305	Check carried out, vehicle not affected by technical campaign, 1 FRUs

			Renewing wheel flange	Visual inspection for steel wheel flange
Model	**Series**	**Type**	00 60 301	**00 60 305**
R 1200 GS	K25	0307/ 0317	7 FRU	1 FRU
R 1200 GS Adventure	K25/02	0382/ 0397	7 FRU	1 FRU
HP2 MegaMoto	K25/03	0310/ 0320	7 FRU	1 FRU
R 1200 GS	K25/11	0303/ 0313	7 FRU	1 FRU
R 1200 GS Adventure	K25/12	0380/ 0390	7 FRU	1 FRU
R 1200 GS	K25/31	0450/ 0460	7 FRU	1 FRU
R 1200 GS Adventure	K25/32	0470/ 0480	7 FRU	1 FRU
HP2 Enduro	K25HP	0369/ 0389	9 FRU	1 FRU
R 1200 RT	K26	0368/ 0388	8 FRU	1 FRU
R900 RT	K26	0367/ 0387	8 FRU	1 FRU
R 1200 RT	K26/11	0430/ 0440	8 FRU	1 FRU
R900 RT	K26/11	0330/ 0340	8 FRU	1 FRU
R 1200 R	K27	0378/ 0398	8 FRU	1 FRU
R 1200 R	K27/11	0400/ 0490	8 FRU	1 FRU
R 1200 ST	K28	0328/ 0338	8 FRU	1 FRU
R 1200 S	K29	0366/ 0396	7 FRU	1 FRU
HP2 Sport	K29/HP	0458/ 0468	8 FRU	1 FRU
K 1200 S	K40	0581/ 0591	9 FRU	1 FRU
K 1300 S	K40/11	0508/ 0509	9 FRU	1 FRU
K 1200 R	K43	0584/ 0594	9 FRU	1 FRU
K 1300 R	K43/11	0518/ 0519	9 FRU	1 FRU
K 1200 R Sport	K43/HV	0585/ 0595	9 FRU	1 FRU
K 1200 GT	K44	0587/ 0597	8 FRU	1 FRU
K 1300 GT	K40/31	0538/ 0539	8 FRU	1 FRU

Contacts:

For technical inquires in relation to this bulletin	Please open a PuMA case
For warranty inquires in relation to this bulletin	Motorrad.Warranties@bmwna.com
For parts inquires in relation to this bulletin	PCgroup@bmwna.com
Motorcycle Service and Technical Manager	Gordon.McDonnell@bmwna.com

0307 - R 1200 GS

00 60 301 Renewing wheel flange on bevel gears

1

▶ Preparatory work

- Removing spray guard
- Removing rear brake caliper
- Removing rear wheel
- Removing rear brake disc

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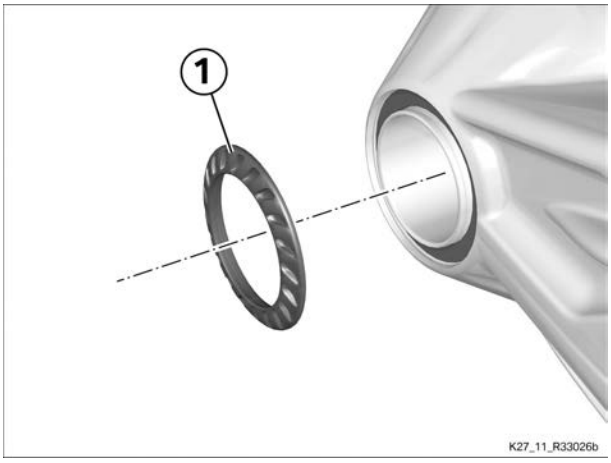
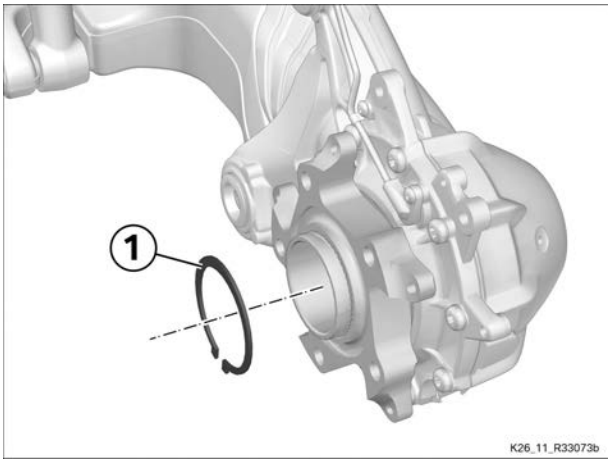
2

▶ Removing wheel flange

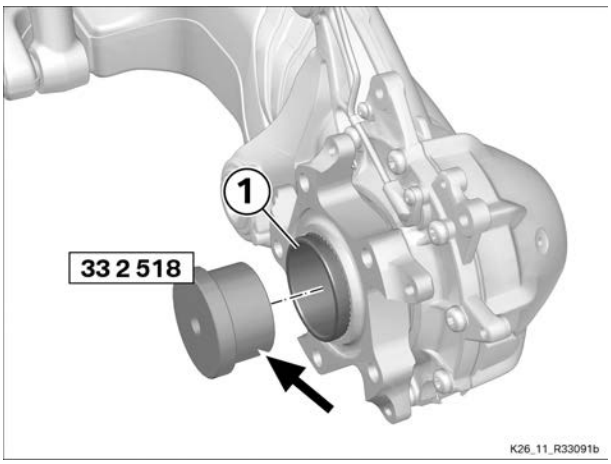
Requirement
Gear is engaged.



- Remove cover **(1)**.

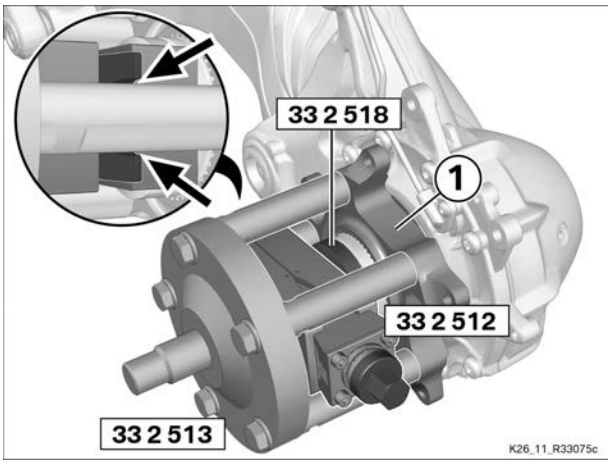


- Remove circlip **(1)**.



- Insert plate (33 2 518) in wheel axle **(1)**.

» The guide **(arrow)** is pointing toward wheel axle **(1)**.



- Position counter-holder (33 2 513) on wheel flange **(1)** and tighten.
- Prepare puller (33 2 512).

NOTE

Regularly lubricate the sliding surfaces of the puller with the grease provided with the tool.

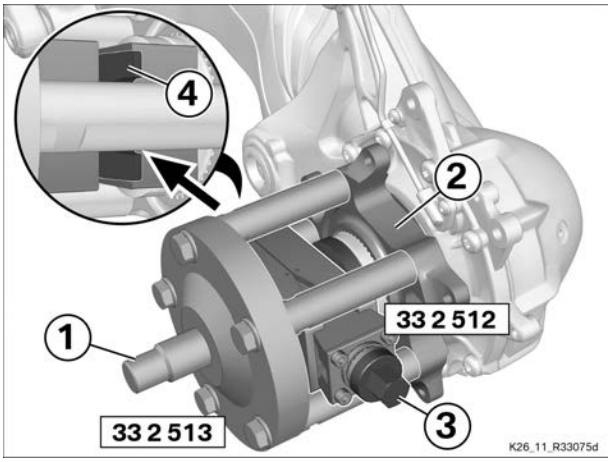
ATTENTION

Inner wedge of puller slips forward during pull-off operation.

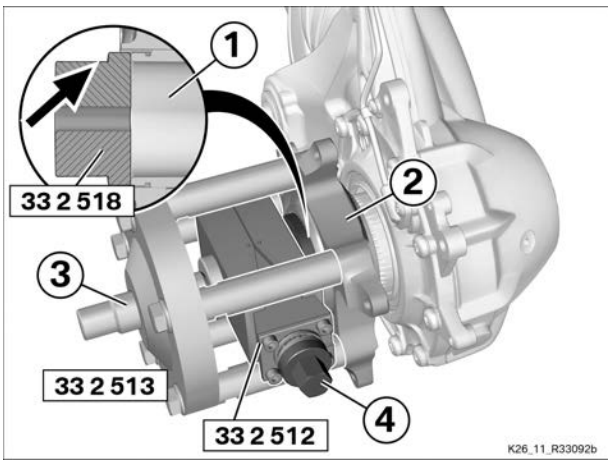
Damage to tool.

- Centre the puller.
- Repeatedly check positioning.

- Make sure that puller (33 2 512) is retracted and centre it **(arrows)** relative to counter support (33 2 513) on plate (33 2 518).



- Pretension spindle **(1)** on puller (33 2 512).
- Ease off wheel flange **(2)** by turning spindle **(3)** until puller sled **(4)** and counter support (33 2 513)**make contact (arrow)**.
- Re-engage puller (33 2 512) by retracting it fully, positioning it and again pretensioning it with spindle **(1)**.
- Ease off wheel flange **(2)** by turning spindle **(3)** until wheel flange **(2)** is **in contact with** puller (33 2 512).
- Back off puller (33 2 512) and remove.



- Turn plate (33 2 518) over and position it on wheel axle **(1)**.
- » The guide **(arrow)** is facing out.
- Check that puller (33 2 512) is retracted and centre it on plate (33 2 518).
- Pretension spindle **(3)** on puller (33 2 512).
- Remove wheel flange **(2)** by turning spindle **(4)**.
- Remove the special tools.

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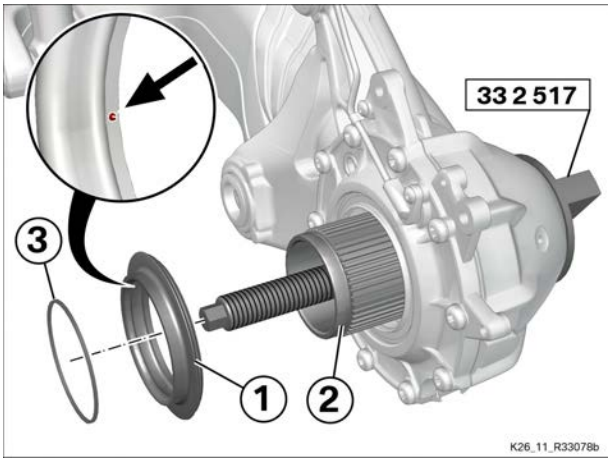
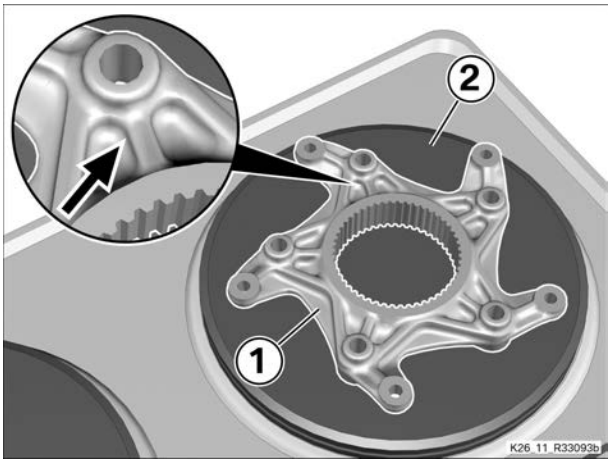


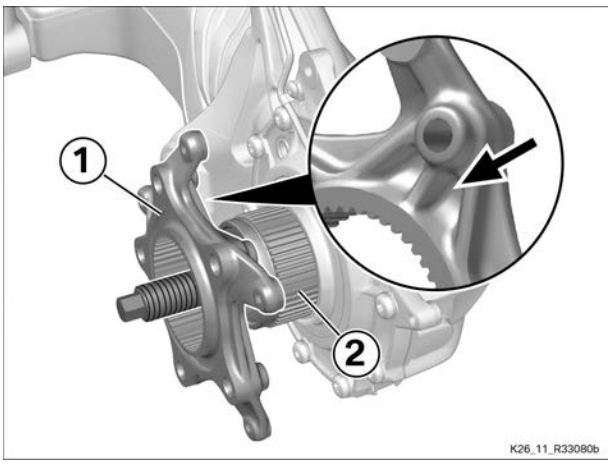
► **Installing wheel flange**

- Position spacing ring **(1)**, noting the split pin **(arrow)**.
- » The split pin **(arrow)** sits in splines of wheel axle **(2)**.
- Installing spacer ring **(1)** making sure that it engages **perceptibly** and **with an audible click**.
- Install O-ring **(3)**.
- Insert installation tool (33 2 517).



- Lay wheel flange **(1)** on heating plate **(2)** and heat it; in this process use thermometer (00 1 900) to measure temperature in several recesses **(arrow) at the wheel screw connection**.

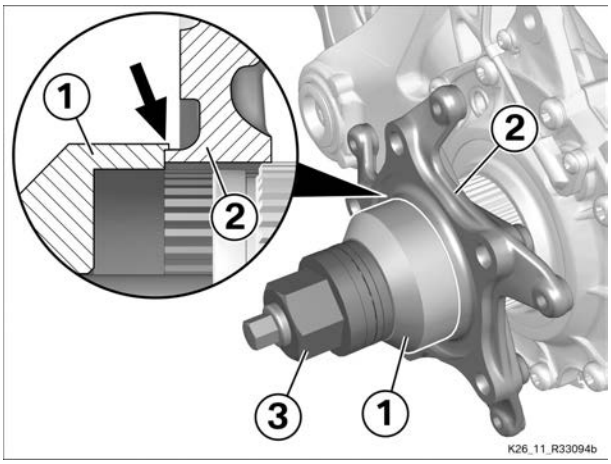
Technical data			
Release/mating temperature		150 °C	



⚠ CAUTION

Working with heated/hot components.
Risk of burn injury
- Wear protective gloves.

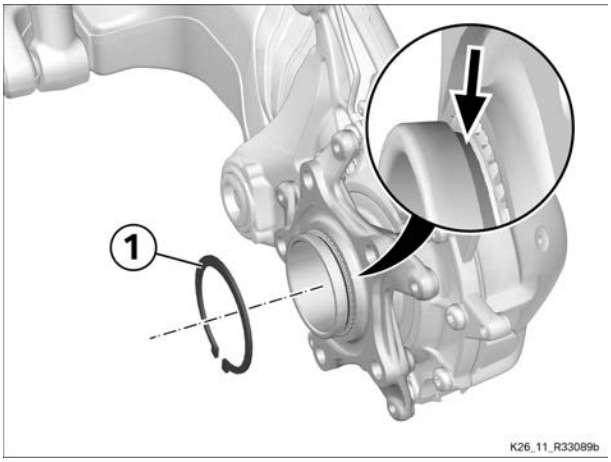
- Position wheel flange **(1)** with the recesses **(arrow)** toward the bevel gears. The splines of wheel flange **(1)** and wheel axle **(2)** must be in alignment.



- Position thrust piece **(1)** in such a way that it is seated with the guide **(arrow)** straight and firm on wheel flange **(2)**.
- Install thrust nut **(3)**.
- Working quickly, install wheel flange **(2)** by tightening thrust nut **(3)** until the flange is seated; note that the process can produce a slight amount of swarf.
- Remove the special tools.

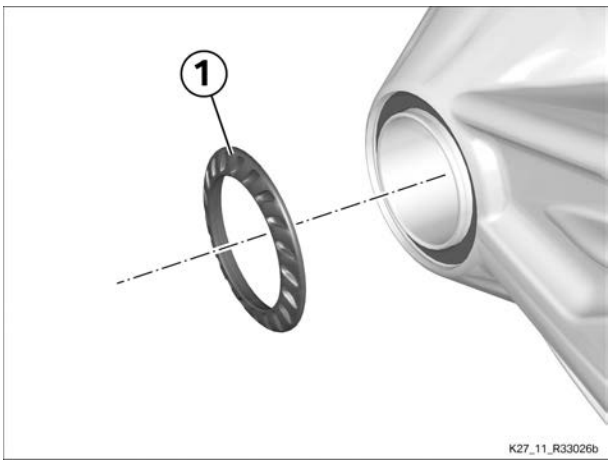
NOTE

After installation of a new wheel flange there are slight grinding noises and the flange does not turn as freely.
This is of no significance and has to do with the bedding-in process of the primary dirt excluder seal, which is perfectly normal. The symptoms will disappear after a few kilometres.



- Remove all traces of swarf from the groove **(arrow)**.
- Install circlip **(1)**, making sure that it **slips fully into the groove** and **is not under strain**.

» Circlip **(1)** can be turned in the groove.



- Install cover **(1)**.

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► **Finishing work**

- Installing rear brake disc
- Installing rear wheel
- Securing rear brake caliper
- Installing spray guard
- Final check of work performed

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