



SIB 12 01 11

2021-12-01

Replacing Alternator Fasteners and Repair Manual - Bulletin 12 001 11
(003)R

This Service Information Bulletin replaces SI 12 001 11 (003)R **dated February 2011**.

The contents of this bulletin have not changed; bulletin numbering was updated.

MODEL

This document applies to the following Motorrad AG models: 0145

This document applies to the following Motorrad model descriptions: G 450 X

This document applies to the following Motorrad series: K16

SITUATION

This document is applies to the following categories: Engine Electrical Systems

Supporting Materials

[picture_as_pdf 12_001_11_003R_Replacing_Alt_Threaded_Fasteners.pdf](#)

Retail Operator General Manager	Sales New Motorcycles	Sales Pre-Owned Motorcycles	Business Manager (F&I)	Service	Parts & Accessories	Administration
Date: January 2011		Source: SI 40/2010 Name: Shawn McLean Title: Service & Technical Manager Phone: 201-307-4131			Revised February 2011	
Bulletin # 12 001 11 (003)R						



BMW Motorrad USA

Service Information Bulletin

****Technical Campaign****

Subject: Replacing Threaded Fasteners for Alternator Freewheel Ring and Exchanging Repair Manual

Model: G 450 X (K16)

Details: BMW Motorrad has completely revised a number of tightening specifications. Fasteners affected by these changes include the ones securing the freewheel ring to the magnetic wheel. These must be replaced on account of the possibility they can work loose during operation. Also the data on the 1st edition (06/2008 issue) and 2nd edition (09/2008 issue) repair manual CDs are out of date. A 3rd edition (10/2009 issue) is to be exchanged for the outdated ones.

Motorcycles affected: In order to determine if a specific motorcycle is affected by this Technical Campaign, it will be necessary to verify all motorcycle 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 24-48 hours after the release of this bulletin.

Production Solution: As of September 2009 the revised tightening specifications for the threaded fasteners of the freewheel ring to the magnetic wheel have been in use in series production and the edition of the Repair Manuals accompanying each motorcycle leaving the factory is the 3rd edition (10/2009 issue).

Aftersales Solution: On all the motorcycles affected the procedure for replacing the threaded fasteners securing the freewheel ring to the magnetic wheel is described in the accompanying work item 00 60 202. Make sure you have read and complied with the following work item before handing over the motorcycles to the customers.
In exchange for the outdated edition (1st or 2nd edition), issue the customer a copy of the updated Repair Manual CD (3rd edition, 10/2009 issue).

Note: It is essential to ensure that the outdated copies of the Repair Manuals (part numbers 01 79 7 718 916 (1st edition) and 01 59 7 720 807 (2nd edition)) are rendered unusable/destroyed.

Warranty: The repair described in this bulletin is covered under warranty regardless of time or mileage.

Warranty Information:

Defect code:	00 12 01 00 00	Replacing freewheel-ring threaded fasteners
Labor code:	00 60 202	Replacing freewheel screws and checking security of stator screws, 9 FRUs
Part numbers:	01 59 7 720 814 12 41 7 723 442	Repair Manual G 450 X (CD), 3rd edition Repair set, alternator freewheel ring, K16 Contents of the repair set: 07 11 9 906 878 x 6 Fillister-head screw M6x12 07 11 9 951 440 x 1 Woodruff key 3x5 07 11 9 963 252 x 1 Gasket ring A16x20 11 11 7 707 109 x 1 Washer-Gasket 8x16x1.6 AL 11 14 7 714 688 x 9 Washer 6.1x11.5 12 31 7 707 154 x 1 Collar nut M14x1

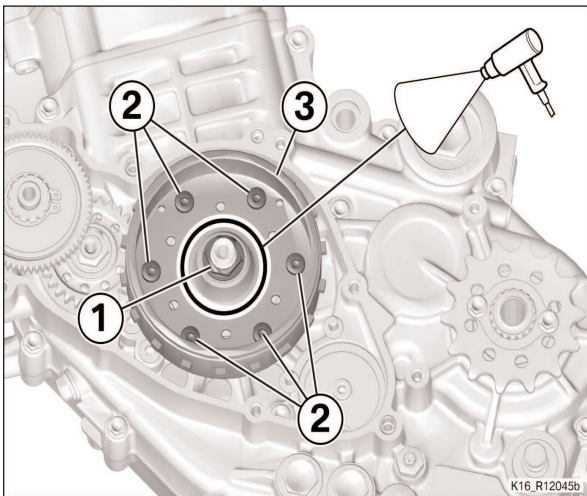
Contact: Service and Technical Manager

Work item: 00 60 202 Replacing freewheel screws and checking security of stator screws

1: Preparatory work:

- Removing engine guard
- Placing motorcycle on auxiliary stand
- Setting engine to firing TDC
- Locking crankshaft in TDC position
- Removing shift lever
- Removing left crankcase cover

2: Removing magnetic wheel:

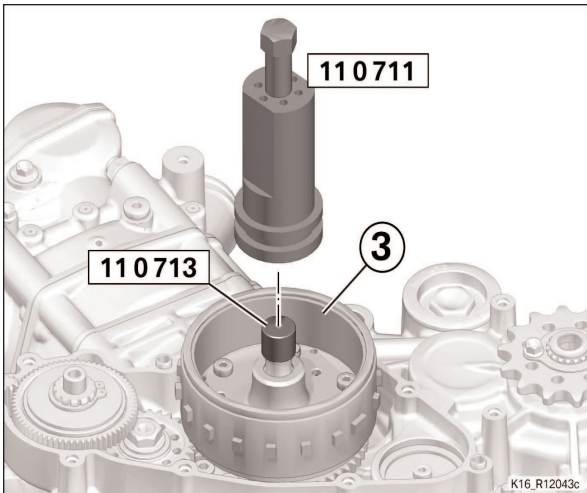


Heat nut (1) and inside of magnetic gear (3) (circle).

Technical data	
Release/mating temperature	80 °C

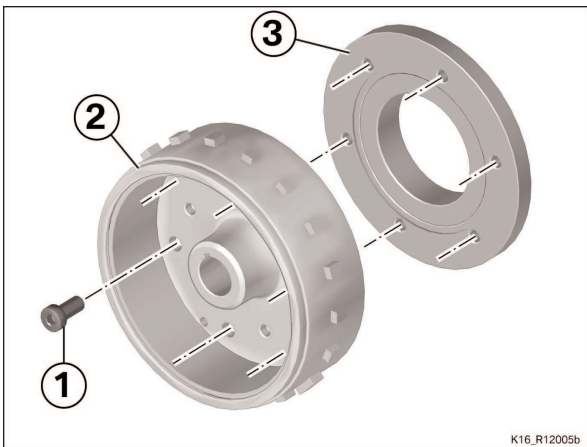
Slightly back off screws (2).

Remove nut (1).



Remove magnetic gear (3) with puller tool (11 0 711) and thrust piece (11 0 713).

3: Removing magnetic wheel:



Remove the following components:

Screws (1)

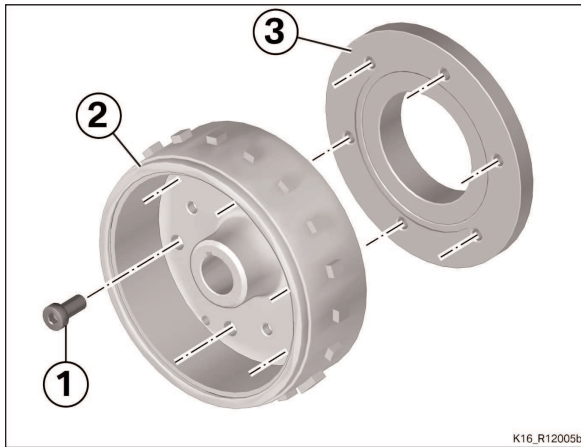
Freewheel (3) from magnetic wheel (2)

4: Cleaning and degreasing tapped bores in freewheel:

Tapped bores in freewheel:

Clean
Degrease
Dry

5: Installing freewheel:



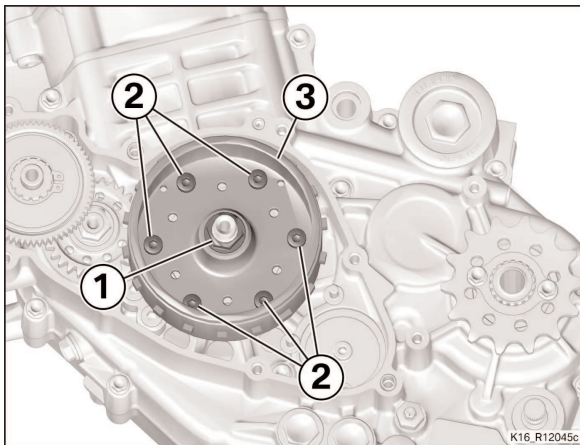
Hold magnetic gear (2) in position on freewheel (3).

Attention:

Mechanical strain damages the magnetic wheel.

Do not tighten the screws for the freewheel to specified torque until the magnetic wheel has been installed in the engine.

6: Installing magnetic gear and tightening screws for freewheel:



Clean the tapers of the magnetic gear and the crankshaft and clean the threads. Apply a thin coat of adhesive to the taper of the magnetic gear.

Fluids and lubricants

Loctite 638 (07 58 9 056 030)
or equivalent

Install magnetic gear (3) on the crankshaft. Check woodruff key and keyway are in line. Install nut (1).

Tightening torques

Magnetic gear to crankshaft

Collared nut, M14 x 1, Replace nut Micro-encapsulated	90 Nm
---	-------

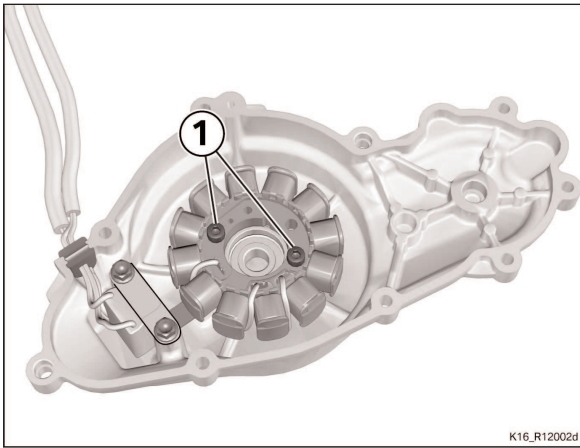
Tighten screws (2).

Tightening torques

Freewheel housing to magnetic gear

M6 x 12 - 10.9, Replace screw Micro-encapsulated	in diagonally opposite sequence
	Initial torque, 3 Nm
	Final torque, 45 degrees angle torque

7: Checking that stator screws are secure:



Check that screws (1) are tightened to the specified torque; do not remove.

Tightening torques	
Stator to crankcase cover, left	
M5 x 20, if removed, install with thread lock Loctite 243	6 Nm

8: Finishing work:

- Installing left crankcase cover
- Releasing crankshaft
- Installing shift lever
- Remove the motorcycle from auxiliary stand
- Installing engine guard
- Checking engine oil level
- Final check of work performed