

Retail Operator General Manager	Sales New Motorcycles	Sales Pre-Owned Motorcycles	Business Manager (F&I)	Service	Parts & Accessories	Administration
Date: April 2014 Bulletin # 11 001 14 (012)		Source: SI 09/2014 Name: Shawn McLean Title: Service & Technical Manager Phone: 201-307-4131				



BMW Motorrad USA

Service Information Bulletin

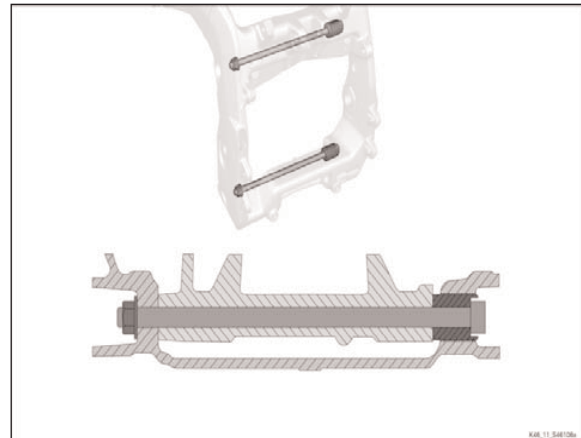
Subject: Engine/Frame Threaded Fasteners

Models: S models

Details: With introduction of the November 2013 construction status, the threaded fasteners securing the engine block to the frame were changed.
A crossed configuration or a mixed configuration is possible. Under these circumstances the threaded fasteners have to be adapted as necessary.

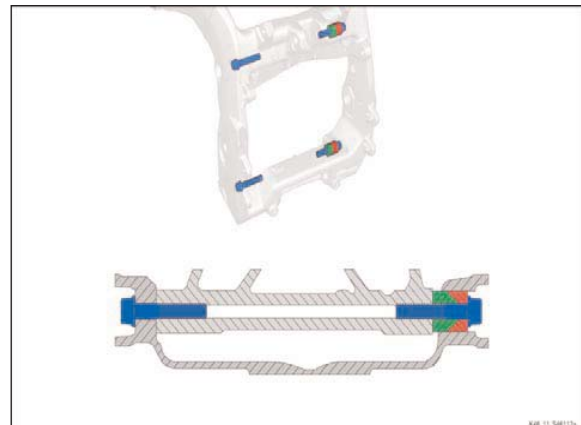
Engine/frame threaded fasteners up to November 2013 construction status

The Engine does not have threaded holes and the frame does have threaded holes.



Engine/frame threaded fasteners from November 2013 construction status onward

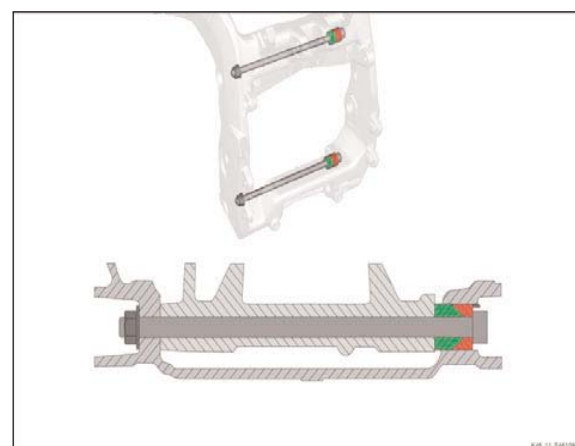
The Engine has threaded holes and the frame does not have threaded holes.



Aftersales solution: There is a special repair solution for installing an engine with threaded holes (November 2013 construction status onward) in a frame with threaded holes (up to the November 2013 construction status). The parts required are 2 threaded bushings for engine mount (p/n: 46 71 8 549 244) and 4 trapezoidal screws (p/n: 46 71 7 726 489).



There is a special repair solution for installing an engine without threaded holes (up to the November 2013 construction status) in a frame without threaded holes (November 2013 construction status onward). The parts required are 2 taper elements (p/n: 46 71 7 724 824) and 2 expander sleeves (p/n: 46 71 7 718 476).



The individual steps in the repair procedure are explained in detail in the complete installation documentation (see attachment).

The information attached to this Service Information bulletin will be published on the RSD (Repair and Service Data BMW Motorrad) DVD, edition 06/2014. From then on, always check the current edition of the RSD for details of the description.

Warranty Information: For information purposes only.

Contact: Service and Technical Manager

Installing engine fasteners: **Complete installation documentation**

Note: There are four different construction statuses. Select the appropriate repair path.

Installing engine fasteners (engine without threaded holes and frame with threaded holes)

Install screws (1) on left and tighten until hand-tight.

Install threaded bushings (6) with screws (5) and tighten slightly.

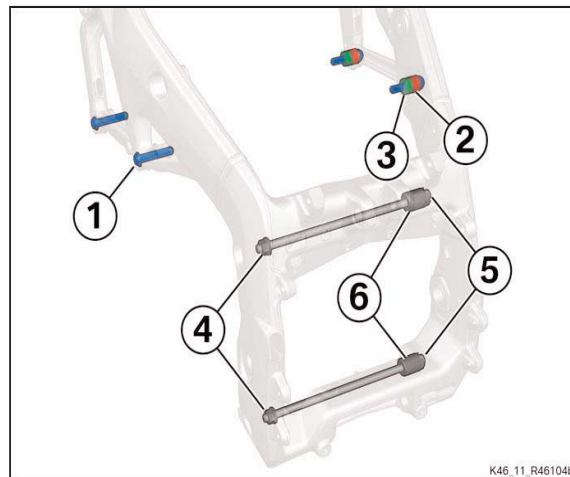
Install screws (5) with nuts (4) but do not tighten.

Insert taper elements (3) with the taper to the outside.

Install expander elements (2) with the drilled end in.

Install screws (1) on right and tighten until hand-tight.

Tighten the screws in the specified sequence.



Tightening torques	
Engine to frame	
1st step	
Loosely install all bushings and screws	
2nd step	
Engine front left to frame, M10 x 50	
1st tightening torque	10 Nm
2nd tightening torque	56 Nm
3rd step	
Threaded bush (engine to frame at rear), M24 x 1.25, Install threaded bush with corresponding screw	
Tightening torque	20 Nm
4th step	
Engine to frame at <u>top</u> rear, M10 x 247, counter-hold at screw to keep the threaded bush from turning	
Tightening torque, nut	56 Nm
5th step	
Engine to frame at <u>bottom</u> rear, M10 x 247, counter-hold at screw to keep the threaded bush from turning	
Tightening torque, nut	56 Nm
6th step	
Engine front right to frame, M10 x 50, with taper elements	
Tightening torque	56 Nm

Installing engine fasteners (engine with threaded holes and frame without threaded holes)

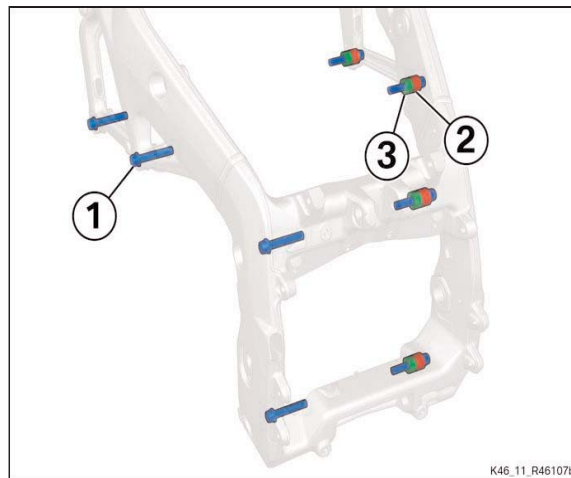
Install screws (1) on left and tighten until hand-tight.

Insert taper elements (3) with the taper to the outside.

Install expander elements (2) with the drilled end in.

Install screws (1) on right and tighten until hand-tight.

Tighten the screws in the specified sequence.



Tightening torques	
Engine to frame, engine with threaded holes and frame without threaded holes	
1st step	
Loosely install all screws and taper elements	
2nd step	
Engine, left, to frame, M10 x 50	
1st tightening torque	10 Nm
2nd tightening torque	56 Nm
3rd step	
Engine, right, to frame, M10 x 50, with taper elements	
Tightening torque	56 Nm

Installing engine fasteners (engine and frame with threaded holes)

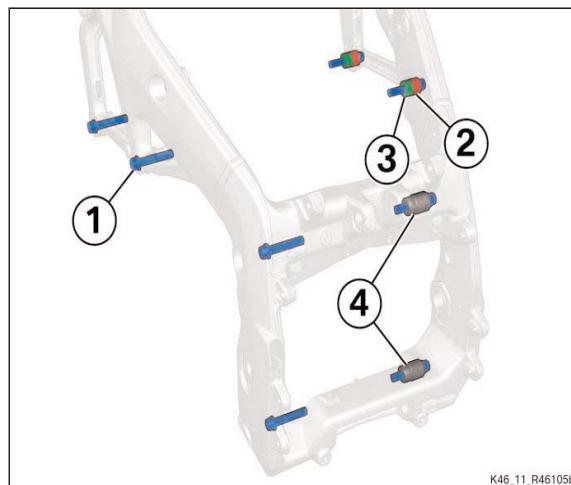
Install screws (1) on left and tighten until hand-tight.

Insert taper elements (3) with the taper to the outside.

Install expander elements (2) with the drilled end in. Install bushing (4).

Install screws (1) on right and tighten until hand-tight.

Tighten the screws in the specified sequence.



Tightening torques	
Engine to frame, engine and frame with threaded holes	
1st step	
Loosely install the screws, taper elements and threaded bushings	
2nd step	
Engine to frame at left (front and rear), M10 x 50	
1st tightening torque	10 Nm
2nd tightening torque	60 Nm
3rd step	
Threaded bush (engine to frame at rear right), M24 x 1.25	
Tightening torque	20 Nm
4th step	
Engine to frame, top rear right, M10 x 50	
Tightening torque	60 Nm
5th step	
Engine to frame at bottom rear, M10 x 50	
Tightening torque	56 Nm
6th step	
Engine front right to frame, M10 x 50, with taper elements	
Tightening torque	56 Nm

Installing engine fasteners (engine and frame without threaded holes)

Install screws (1) on left and tighten until hand-tight.

Insert taper elements (3) with the taper to the outside at the front.

Install expander elements (2) with the drilled end in at the front.

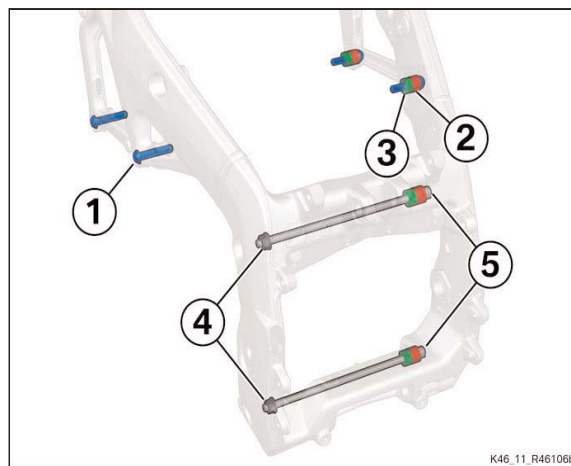
Install screws (1) on right and tighten until hand-tight.

Insert taper elements (3) with the taper to the outside at the rear.

Install expander elements (2) with the drilled end in at the rear.

Install screws (5) with nuts (4) but do not tighten.

Tighten the screws in the specified sequence.



Tightening torques	
Engine to frame, engine and frame without threaded holes	
1st step	
Loosely install all screws	
2nd step	
Engine to frame at front left, M10 x 50	
1st tightening torque	10 Nm
2nd tightening torque	56 Nm
3rd step	
Engine to frame at top rear, M10 x 247, with taper elements	
Tightening torque, nut	56 Nm
4th step	
Engine to frame at bottom rear, M10 x 247, with taper elements	
Tightening torque, nut	56 Nm
5th step	
Engine front right to frame, M10 x 50, with taper elements	
Tightening torque	56 Nm