

Measure no.

US 64241685-01

Subject

S-Model left and right engine protection

Status date (mm/dd/yy)

5/25/18

Status

Accepted

Organization

US, MOT

Date created (mm/dd/yy)

5/25/18

Created by

Annett Salzmann

PQM Problem reference**Release date (mm/dd/yy)****Approved by****Dealer release**

Allow automatic release

Vehicles affected**E series**

K42 K46 K46/11 K46/12 K46/13

K47 K47/11 K49

Engine**Body****Production period (from/to)**

(mm/dd/yy)

Comment on production period**Feedback (all cases relating to****measure up to) (mm/dd/yy)**

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Complaint

After installing the right and left engine protection kits (77 25 8 545 292 and 7 72 5 8 545 293), an oil leak could occur on the left alternator cover and/or the right control cover.

Cause

The installation instructions are incorrect for 77 14 099/+ 77 14 599 Installing left and right engine guards. It states that only the three lower screws on the alternator housing cover and right timing chain drive cover should be removed and the engine guards installed.

However loosening these screws can loosen the sealing compound applied between the housing and cover, which can subsequently cause a leak at this location.

Measure

The installation instructions are being revised and will be published soon.

However if these engine protection kits need to be installed please use the attached instructions until the new installation instructions are published. Only use NEW screws to secure both covers again after disassembly.

Complaint

	Fault location	Fault type	Fault place
†	11/00 Engine	Leak: oil	
†	11/11 Engine housing sealing cap / seal plug	Leak: oil	Area, engine / transmission, rear

Cause

#	Fault location	Fault type	Fault place
† 1	11/11 Engine housing sealing cap / seal plug	Leak: oil	
	Repair Task	Special Clearance	Area
	Checking, repairing, replacing	No	Powertrain

#	Fault location	Fault type	Fault place
† 2	11/14 Chain case / alternator bracket / gear case cover	Leak: oil	
	Repair Task	Special Clearance	Area
	Checking, repairing, replacing	No	Powertrain

#	Fault location	Fault type	Fault place
† 3	11/14 Housing Covers	Leak: oil	Right
	Repair Task	Special Clearance	Area
	Checking, repairing, replacing	No	Powertrain

#	Fault location	Fault type	Fault place
† 4	11/14 Timing chain drive lid	Leak: oil	
	Repair Task	Special Clearance	Area
	Checking, repairing, replacing	No	Powertrain

#	Fault location	Fault type	Fault place
5	77/14 Engine guard		
	Repair Task	Special Clearance	Area
	Checking, repairing, replacing	No	Powertrain

Fault code

Progman / DIS / ISTA / ISTAP

System	State	Version
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77 14 099 Installing left and right engine guards

+ 77 14 599

Equipment trim-level variant:

Protectors for engine, left and right^{OA}

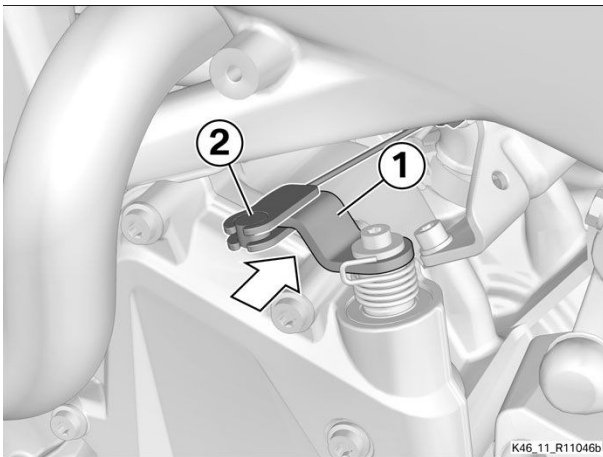
Preparatory work

=> Removing and installing the rear-wheel stand special tool (motorcycles without centre stand)
(Description in item: 46 52 510, Billed as a separate item)

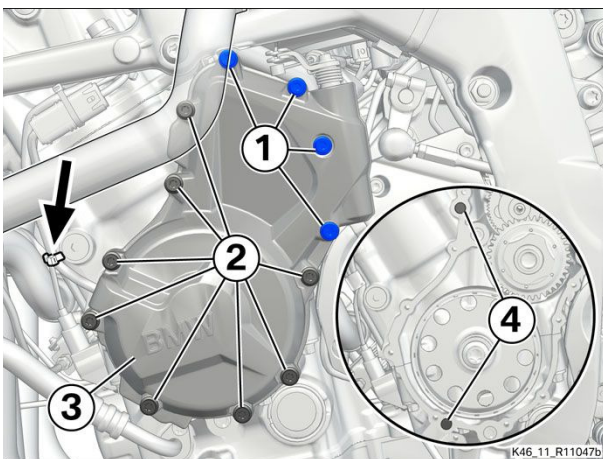
Core activity

(-) Removing left crankcase cover

- Use a suitable tool to push release arm (1) inward and detach clutch cable (2).

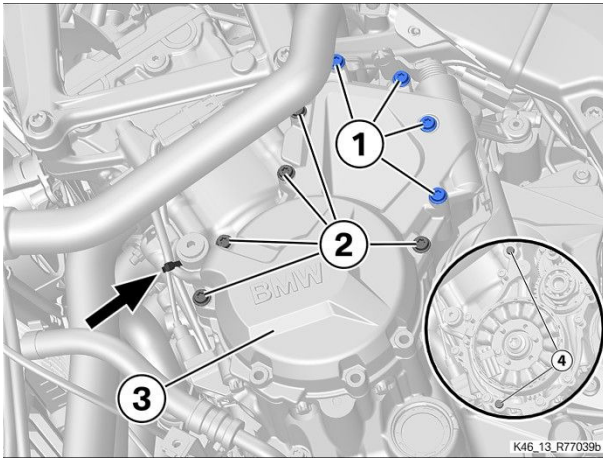
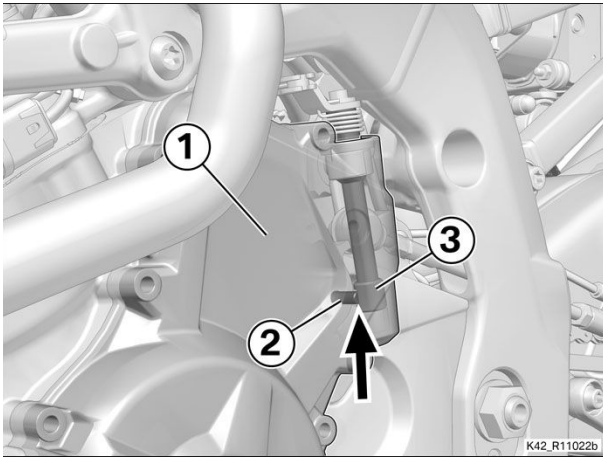


- Open the cable strap (arrow).
- Remove screws (1) and (2).
- Remove housing cover (3) and place aside.
- Remove cylindrical rollers (4).




(-) Installing the engine housing cover with the left protector

- Clean the sealing faces.
- While positioning engine housing cover (1), note that pushrod (2) is seated in recess (Arrow) of release lever (3).



- Install cylindrical rollers (4).
- Apply a thin bead of sealing compound to the sealing face of the engine block.

 Sealant	
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- Install housing cover (3).
- Install new long screws (1) and new short screws (2), but do not tighten.
- Close the cable strap (arrow).

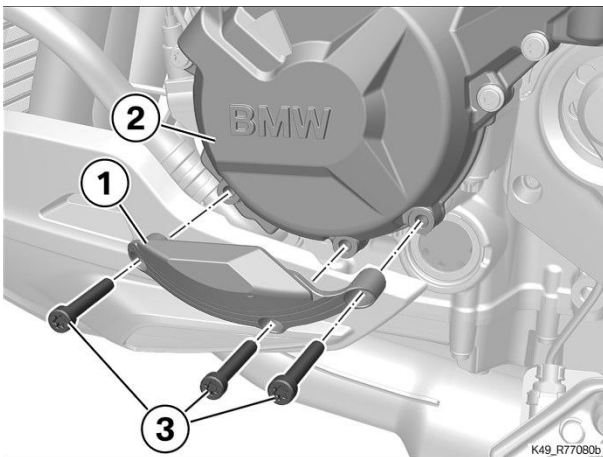
► Installing left guard for engine


Requirement

- Guard and crankcase cover are clean and dry.




- Hold left guard (1) in position on crankcase cover (2) and install with new screws (3).

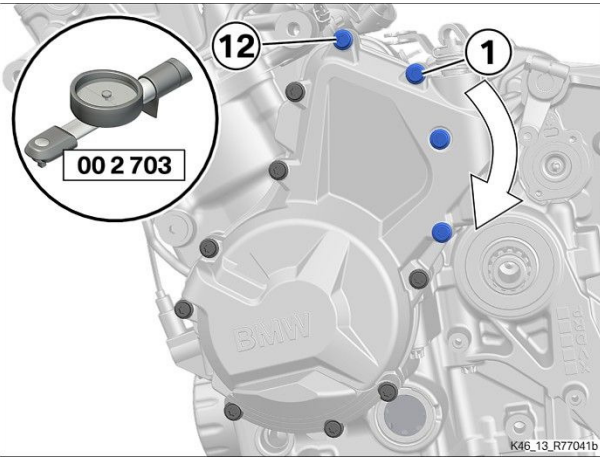


 Tightening torques		
Guard, left, to crankcase cover		
with sealing ring, M6 x 40	8 Nm	



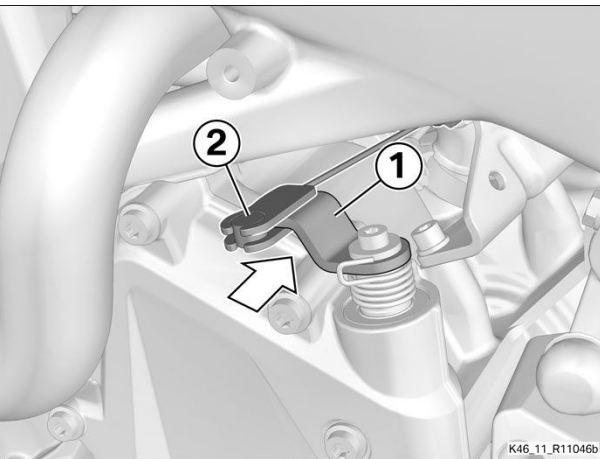
- Tighten screws, starting at (1) and working clockwise to (12), and using torque wrench (No. 00 2 703).

 Tightening torques		
Engine cover, left, to crankcase		
M6 x 35, Replace screw	Tightening torque, 3 Nm	



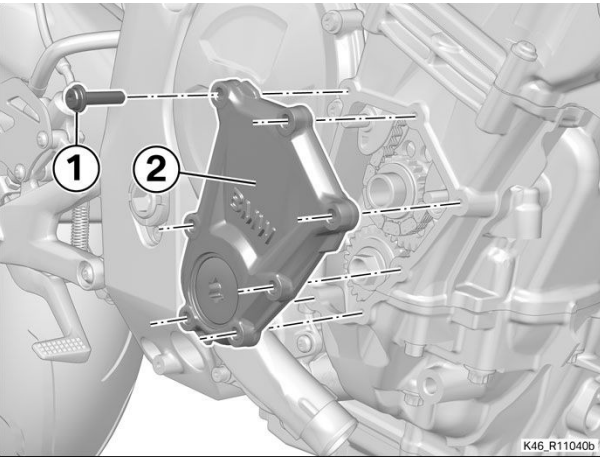
	Additional angle of rotation, 90°	
M6 x 45, Replace screw	Tightening torque, 3 Nm	
	Additional angle of rotation, 90°	
Guard, left, to crankcase cover		
with sealing ring, M6 x 40	8 Nm	

- Use a suitable tool to push release arm (1) inward and attach clutch cable (2).



(-) Removing timing-gear cover

- Remove screws (1) and remove timing gear cover (2).



(-) Installing the right timing chain cover with protector

Requirement

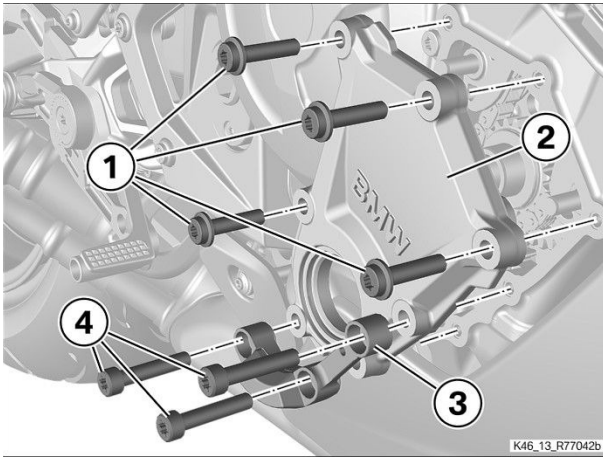
- The protector is clean and dry.



- Clean the sealing face.
- Apply a thin bead of sealing compound to the sealing face of the engine block.

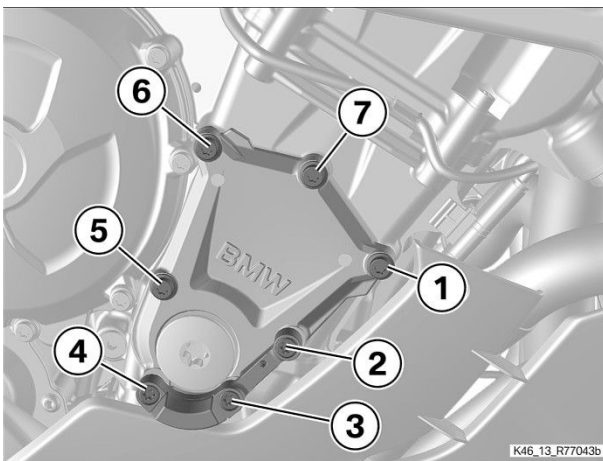


Sealant




K46_13_R77042b

- Position timing chain cover (2) and install new screws (1) but do not tighten.
- Position protector (3) and install **new** screws (4) but do not tighten.



K46_13_R77043b

- Tighten the screws in the specified sequence.

 Tightening torques		
Cover, valve drive, to crankcase		
M6 x 25, Replace screw	Tightening torque, 3 Nm	
	Additional angle of rotation, 90°	
Guard, right, to timing-gear cover		
with sealing ring, M6 x 30	8 Nm	

Follow-up work

Final check of work performed