

Retail Operator General Manager	Sales New Motorcycles	Sales Pre-Owned Motorcycles	Business Manager (F&I)	Service	Parts & Accessories	Administration
Date: August 2013 Bulletin # 21 001 13 (021)		Source: SI 21/2013 Name: Shawn McLean Title: Service & Technical Manager Phone: 201-307-4131				



BMW Motorrad USA

Service Information Bulletin

****Technical Campaign****

Subject: Clutch Slave Cylinder

Model: R 1200 GS (K50, 0A11)

Details: BMW Motorrad has ascertained that in some instances, the bearing fitted in the clutch slave cylinder is prone to accelerated wear. Consequently high mileage vehicles may experience a gradual degradation of the clutch disengagement action.

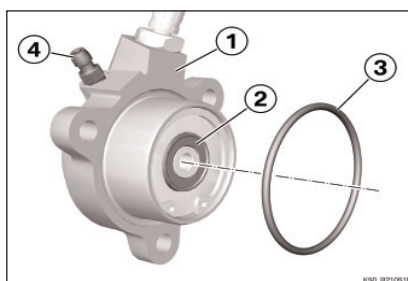


Illustration: Clutch slave cylinder

Clutch slave cylinder (1)

Bearing (2)

O-ring (3)

Bleed screw (4)

Vehicles affected: In order to determine if a specific vehicle is affected by this Technical 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: The bearings installed in series production since December 14, 2012 are much more durable.

Aftersales Solution: Before handing over a new motorcycle to its owner or when motorcycles possibly affected by this problem are next brought to the workshop, install a new clutch slave cylinder (see attached work item 00 60 269 for details).

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

Warranty Information:	Defect code:	00 21 02 00 00	Replacing clutch slave cylinder
	Labor code:	00 60 269*	Replacing and bleeding clutch slave cylinder, 14 FRUs
	Part numbers:	21 52 8 525 828	Clutch slave cylinder
		11 31 7 711 269	O-ring
		12 41 1 459 445	Set, O-ring, starter motor
		18 51 7 726 822	Exhaust-gas seal (x 2)
		18 51 7 726 823	Locking nut M8 (x 4)
	Sublet:	Code 4	For Blue V10 hydraulic fluid, not to exceed \$10

*Main Work 00 60 269 - this main labor operation crediting 14 FRUs includes 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.

Please refer to the Warranty Policy and Procedures Manual regarding add-ons, proper support, documentation, claims submission and archiving requirements as applicable.

Contact: Service and Technical Manager

00 60 269 Replacing and bleeding clutch slave cylinder

1 Preparatory work (Refer to latest RSD for the following)

Removing battery cover

Disconnecting battery

Removing silencer cover

Removing silencer

Disengaging servomotor for exhaust-flow control valve

Disconnecting plug for left oxygen sensor

Removing engine guard

Disengaging bracket for exhaust manifold

Removing exhaust manifold

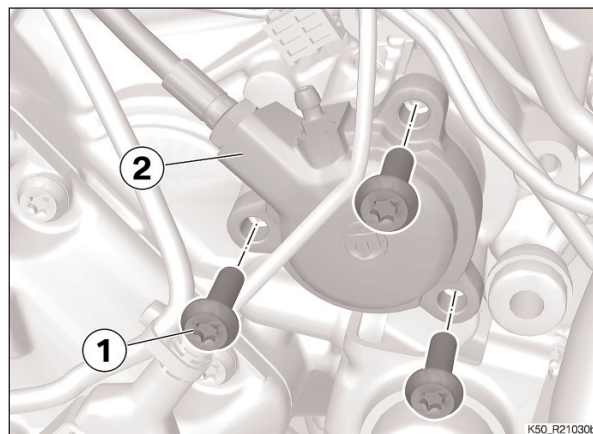
Disengaging starter motor

Disengaging relay

2 Removing clutch slave cylinder

Remove screws (1).

Remove clutch slave cylinder (2).



3 Draining clutch system

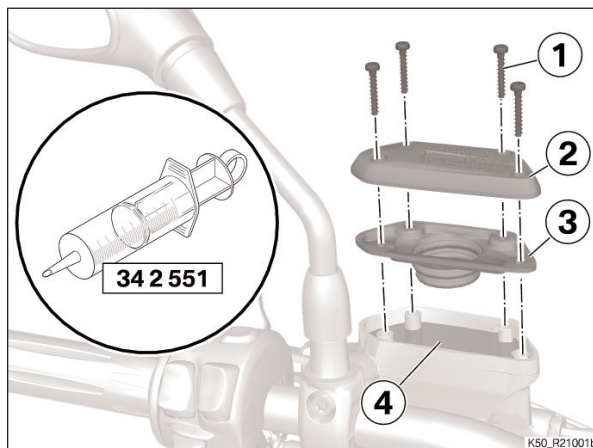
Remove screws (1).

Remove reservoir cap (2).

Remove flexible gaiter (3).

Draw off hydraulic fluid (4) with syringe (34 2 551) or a suitable device.

Clean reservoir, diaphragm (3) and reservoir cap (2).



Attention

Any mixture of oil, brake fluid and clutch fluid, even if the quantities involved are minute, can attack and damage seals.

Always use separate sets of syringes and hoses for the individual fluids, in order to avoid the risk of one fluid contaminating another.

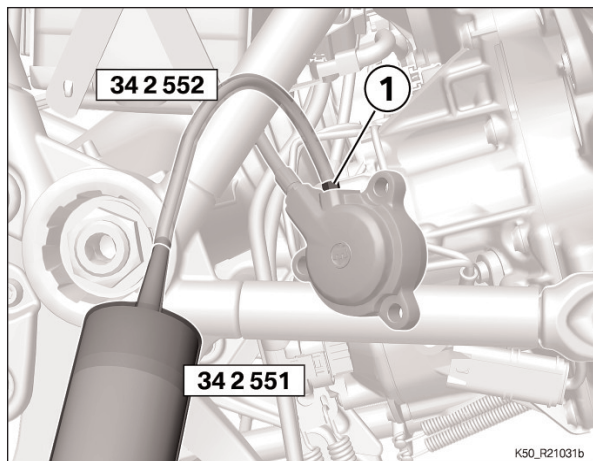
Connect hose (34 2 552) or a suitable hose to bleed screw (1)

Slacken bleed screw (1).

Draw off hydraulic fluid with syringe (34 2 551) or a suitable device.

Tighten breather screw (1).

Remove hose and syringe / suitable device.



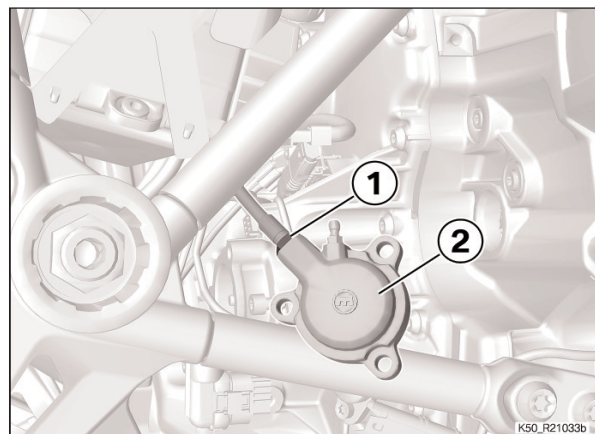
Note

Missing bleed screws can be ordered (see the electronic parts catalogue) and retrofitted if the replacement slave cylinder does not come equipped with a bleed screw.

4 Removing clutch slave cylinder

Remove union screw (1).

Remove clutch slave cylinder (2).



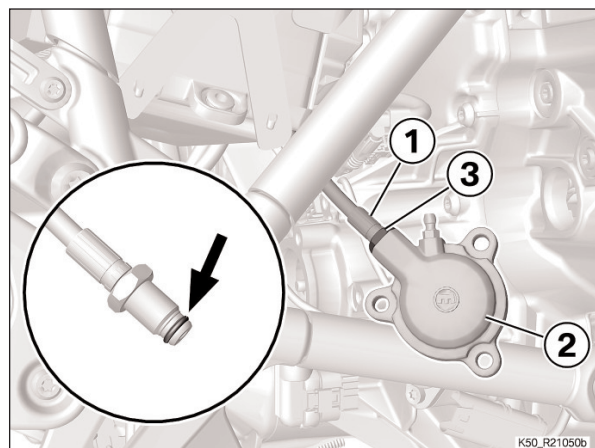
5 Installing clutch slave cylinder

Replace the O-ring (arrow).

Hold clutch line (1) in position at clutch slave cylinder (2).

Tighten union screw (3).

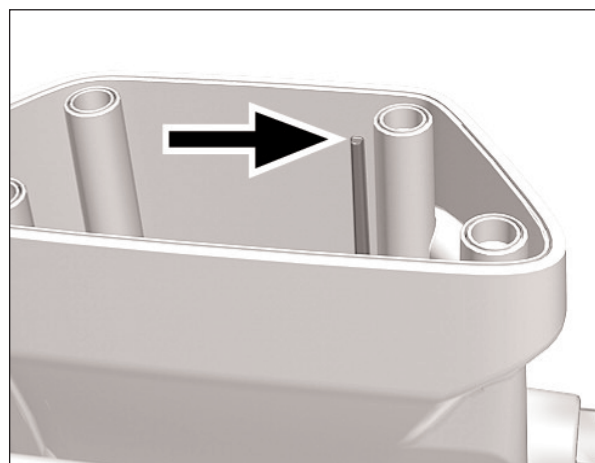
Tightening torques	
Clutch line to clutch slave cylinder	
M10 x 1	7 Nm



6 Filling clutch system

With reservoir horizontal, fill the clutch-fluid reservoir with hydraulic fluid to mark in reservoir (arrow).

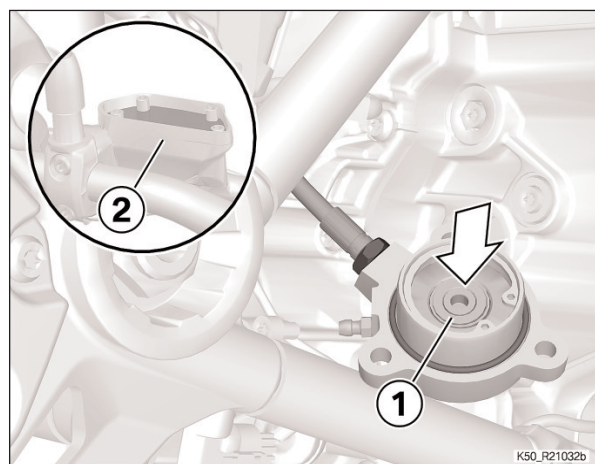
Fluids and lubricants	
Hydraulic clutch fluid, Blue V10	07 51 2 240 342



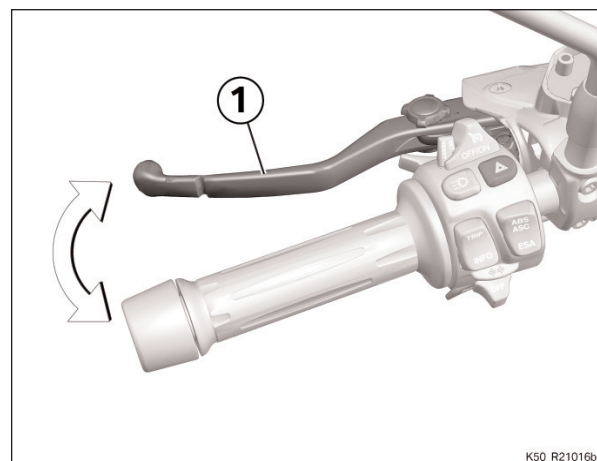
Slowly press piston (1) all the way back, taking care that hydraulic fluid does not splash out of clutch-fluid reservoir (2); cover as necessary.

Wait until piston (1) returns to its initial position.

Repeat the bleeding process until air bubbles cease to rise in the clutch-fluid reservoir.

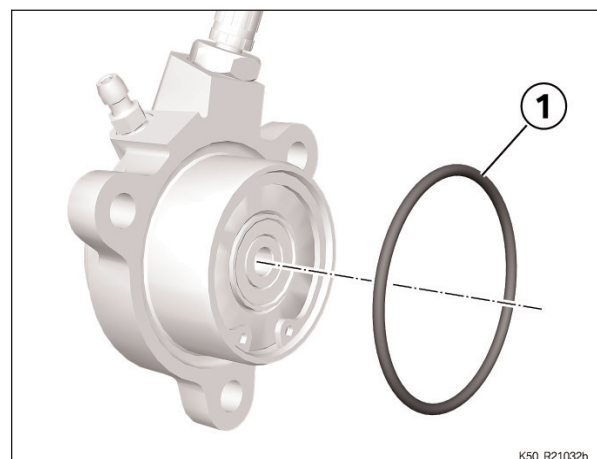


With the motorcycle upright and handlebars turned all the way to the right, repeatedly short-pull clutch lever (1) to expel air from the clutch system until no more air bubbles escape and there is a clearly perceptible pressure point.

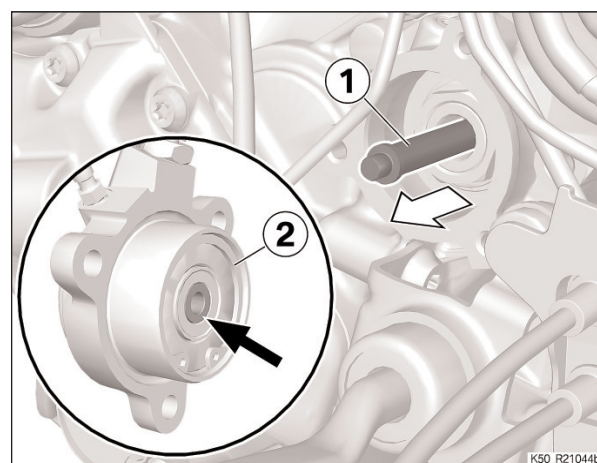


7 Secure the clutch slave cylinder

Install new O-ring (1).

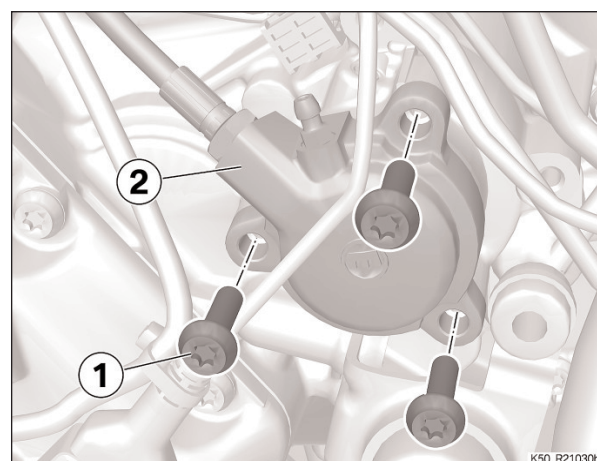


Pull pushrod (1) out slightly and position it in the pivot (arrow) of clutch slave cylinder (2).



Hold clutch slave cylinder (2) in position.

Engage screws (1) and tighten uniformly.



Tightening torques	
Clutch slave cylinder to gearbox cover	
M6 x 20	Tighten the screws twice
	8 Nm

8 Finishing work (Refer to latest RSD for the following)

Filling clutch-fluid reservoir and installing reservoir cap

Securing relay

Securing starter motor

Installing exhaust manifold

Securing bracket for exhaust manifold

Installing engine guard

Connecting plug for left oxygen sensor

Securing servomotor for exhaust-flow control valve

Installing silencer

Installing silencer cover

Connecting battery

Installing battery cover

Checking, if necessary correcting date

Final check of work performed