

Measure no.

US 55159292-01

Subject

Clutch disengages poorly/Poor shifting

Status date (mm/dd/yy)

10/9/13

Status

Accepted

Organization

US, MOT

Date created (mm/dd/yy)

10/9/13

Created by

Peter Loertzing

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

Allow automatic release

Vehicles affected**E series**

K50

Engine

2-ZYL

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

/ 8/28/13

Comment on production period

Insert 21 52 8 550 147

Feedback (all cases relating to**measure up to) (mm/dd/yy)****Complaint**

Poorly or insufficiently disengaging clutch. Difficult gear shifts combined with loud mechanical noises during shifting.

Cause

Clutch does not fully disengage.

Measure

On 08/30/2013, a modified pressure piece was used on the clutch in series production. Use of the pressure piece in engine assembly with engine number 122EN36130280.

This reduces the possible tolerance and limits the oiling of the clutch discs, which tends to improve the disengagement behavior of the clutch.

1) On vehicles manufactured before 08/30/2013 with a verified customer complaint, fitting the modified pressure piece 21 52 8 550 147, FRU item 21 51 002 (9 FRUs) can improve the disengagement behavior of the clutch.

2) Check oil grades used (BMW recommendation: Castrol Power 1 Racing, SAE 5W-40, API SL / JASO MA2). In our experience, the choice of oil grade significantly influences the disengagement behavior of the clutch.

3) Check engine oil fill level (check exclusively when at operating temperature). Overfilling (oil level above the red ring on the inspection glass) leads to deterioration in disengagement behavior of the clutch.

In general, the disengagement behavior of an oil bath clutch is, because of its design, inherently slightly less efficient than that of a dry clutch and the two should therefore not be directly compared with one another.

Reference for clutch operation and shift characteristics should be taken from other vehicles of the same type (K50 demo bike) while bearing in mind a certain series variation.

Complaint

	Fault location	Fault type	Fault place	Fault conditions
▶	Declutch transmission	Shift characteristics not OK		
▶	Disengaging the transmission	Stiff movement		
▶	Driving off	Ticktack noise / clacking noise (disturbing noise)		
▶	Shifting transmission / changing gear	Gearshift jolt too hard		
▶	Shifting transmission / changing gear	Shift characteristics not OK		Engine temperature: During the warm-up phase Engine temperature: At operating temperature Shifting in N (Neutral) 1000 -2000 rpm Engine temperature: Hot Engine temperature: Cold
▶	Transmission	Gearshift jolt too hard		Shifting in 1st gear
▶	Transmission	Shift characteristics not OK		Shifting in 1st gear

Cause

#	Fault location	Fault type	Fault place
▶ 1	23/00 Manual gearbox		
	Repair Task	Special Clearance	Area
	Check	No	Powertrain

#	Fault location	Fault type	Fault place
▶ 2	21/21 Clutch basket	Malfunction	

Repair Task	Special Clearance	Area
Check	No	Powertrain

Fault code

Progman / DIS / ISTA / ISTA/P

System	State	Version
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