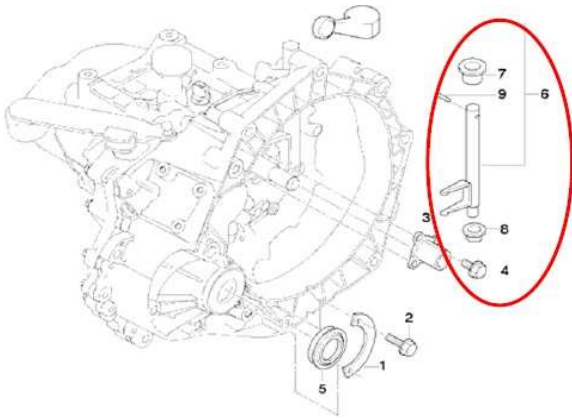


# Previous Technical Bulletins



No.	Description	Supplement	Qty	From	Up To	Part Number
01	Covering plate		1	07/2004	23001502525	
02	Hex Bolt with washer	M6X16-U1-ZNS3	2	07/2004	07119903844	
03	Guide sleeve with seal		1	07/2004	23111044105	
04	Hex Bolt	M5X12	3	07/2004	23001994497	
05	Shaft seal	36X58	1	07/2004	23117518638	
06	CLUTCH REL FORK LEVER only in conjunction with Reconditioning, release lever only in conjunction with		1	07/2004	23001585190	
06	Reconditioning, release lever only in conjunction with		1	07/2004	23002339480	
-	Bush bearing		1	07/2004	23120530909	
-	Bush bearing	D=16MM	1	07/2004	23110530904	
-	ANTI RATTLE PIN		1	07/2004	21510530910	
07	Bush bearing		1	07/2004	23120530909	
08	Bush bearing	D=16MM	1	07/2004	23110530904	
09	ANTI RATTLE PIN		1	07/2004	21510530910	

## CL 039 Importance of replacing clutch release arm on MINI 2001-06>

Vehicles: MINI R50 2001-2006

For the Mini R50 2001-06, it is advised, when the clutch is changed, to replace the release arm at the same time. This is due to the fact; the release arm can become worn and cracked over time.

As a result, the position of the release arm will alter which will cause potential issues with clutch drag, disengagement and/or premature wear to the diaphragm fingers. This can then lead to clutch failure.

## CL 041 HEC v SAT Clutch Technology

Vehicles: All Vehicles

Valeo Service have released a number of clutch kits that originally had (SAT) Self Adjusting Technology and have been re-designed as a (HEC) High Efficiency Clutches.

This bulletin has been produced to explain the operation of a HEC clutch and the advantages, compared to SAT clutches. A SAT clutch is designed to maintain a constant pedal height and consistent pedal operating load as the friction material is worn away, ensuring driver comfort is maintained. It achieves this by using a ratchet system to move the pressure plate up as the friction material on the drive plate wears.

On a standard clutch cover assembly there is an operating window where the diaphragm fingers are working within ideal conditions and the clutch kit will be set up to take advantage of this. However, when the friction material on the drive plate wears by a certain amount, the cover assembly falls outside of the ideal window, causing a progressively stiffer clutch pedal and a change in the clutch activation point.



SAT Clutch Technology



HEC Clutch Technology