

## Transmission and Drivetrain: By Symptom

### A/T - SMG Transmission, Clutch Does Not Engage

SI B 23 04 02

Manual Transmissions

November 2002

Service Engineering

#### SUBJECT

SMG Transmission; Clutch Does Not Engage

#### MODEL

E46 M3 Coupe and Convertible with SMG from start of production to 07/02.

#### SITUATION

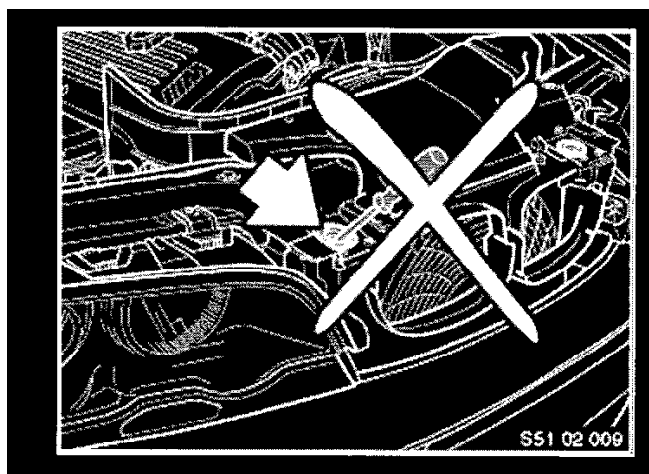
Gear indicator in instrument cluster flashes while driving, or, when stationary, gear can be selected, but clutch does not engage, and indicator flashes.

#### CAUSE

"Hood closed" status is not recognized by SMG control module because one or both hood latch micro switches are not functioning properly.

1. If ONE of the micro switches has failed, it is possible to drive off, but gear indicator in instrument cluster will flash.
2. If BOTH micro switches have failed, gear can be selected but clutch will not engage and gear indicator in instrument cluster will flash.

The micro switch failure could be caused by damage during assembly, or incorrect adjustment. Another possible cause is improper handling of the micro switches during a workshop visit. In the workshop, care should be taken to ensure that no tools are pushed into the lower hood latch assemblies as the switching element on the micro switch could be bent or damaged.



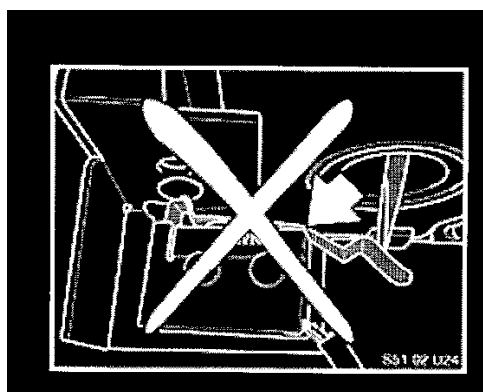
The opening must not be used for holding tools!

#### CORRECTION

On a customer complaint basis, check function of both hood latch micro switches using DISplus or GT1.

Replace faulty lower/lower hood latch assembly, or correct hood adjustment as needed. Adjustment procedure and specifications can be found in Repair Instructions 41 61 014.

#### PROCEDURE



During diagnosis, the switching element of the lower must not be pressed too hard (illustration shows internal view of hood latch assembly).

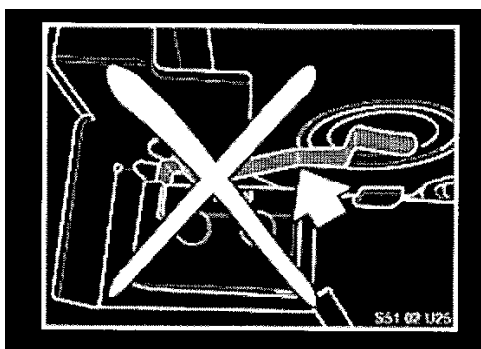


Illustration shows a bent switching element

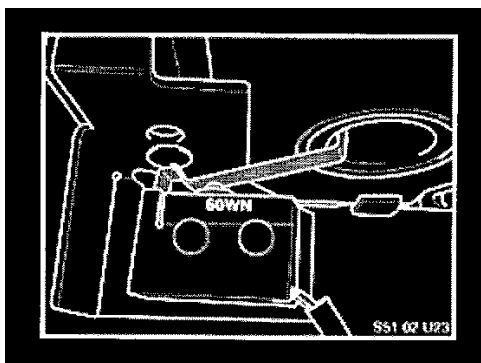


Illustration shows an intact micro switch.

Part Number	Description	Quantity
51 23 7 893 575	Hood latch – lower section	As needed, max.2

#### PARTS INFORMATION

<b>Defect Code</b>	<b>21 54 90 53 00</b>	
	Main Work	
Labor Operation:	00 53 400	Check both hood latch micro switches
Labor Allowance:	4 FRUs	
Labor Operation:	00 53 401	Check both hood latch micro switches,

		replace one latch.
Labor Allowance:	14 FRUs	
Labor Operation:	00 53 402	Check both hood latch micro switches, replace both latches.
Labor Allowance:	16 FRUs	
	+Associated work	
Labor Operation:	00 53 974	Check both hood latch micro switches
Labor Allowance:	3 FRUs	
Labor Operation:	00 53 975	Check both hood latch micro switches, replace one latch.
Labor Allowance:	13 FRUs	
Labor Operation:	00 53 976	Check both hood latch micro switches, replace both latches.
Labor Allowance:	15 FRUs	

Note: The following explanations will spell out the correct use of the work times.

<b>Main Work:</b>	Use this labor operation number when the only repair performed is the listed warranty repair.
	OR
<b>+Associated Work:</b>	Use this labor operation number when other repairs or services are performed along with the listed warranty repair. Under no circumstances should both labor operation numbers be claimed. Attempts to claim both times will result in an unnecessary delay in claim processing and payment.

#### WARRANTY INFORMATION

Covered under the terms of the BMW New Vehicle Limited Warranty.