E36 M3 5th And Reverse Gear Selector Shaft Pin Bushing
Replacement Instructions
(Transmission Removed)
Attachment SI B23 04 04 dated 1/2005

Special tools required:
• 00 1 450
• 23 0 170
• 23 4 021
• 23 4 022
• 23 4 023

Place transmission (1) with special tool 23 0 170 on assembly stand 00 1 450.

Note:
1=Locking pin for reverse gear
2=Locking pin for 5th gear
Release retaining ring (1).

Drive sealing cap (2) out of transmission housing with a suitable tool.

**Important!**
Bore must not be damaged. A burr or a dent can cause the sealing cap to leak.

**Installation:**
Replace sealing cap (2).

**Note:**
Illustration shows sealing cap for reverse gear

Remove pressure spring and locking pin.

**Important!**
Pressure spring and locking pin for reverse and 5th gears must not be mixed up.

<table>
<thead>
<tr>
<th>5th gear locking pin</th>
<th>Reverse gear locking pin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curved slant</td>
<td>Straight slant</td>
</tr>
<tr>
<td>Weaker pressure spring</td>
<td>Stronger pressure spring</td>
</tr>
</tbody>
</table>

**Installation:**
Reverse gear locking pin:
Slant must point downwards in bell housing in direction of travel!

5th gear locking pin:
Slant must point upwards in bell housing in direction of travel!

**Note:**
Illustration shows: 5th gear pressure spring!
Force open bearing bushing (1) and withdraw using a suitable tool.

**Important!**
Force open bearing bushing (1) at specified indent (2) only.

Bore surface must not be damaged!

Drive in bearing bushing (1) with special tool (see table).

**Important!**
Make sure you use the correct special tool. Different tools have different dimensions!

<table>
<thead>
<tr>
<th>5th gear</th>
<th>23 4 022 (short)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reverse gear</td>
<td>23 4 023 (long)</td>
</tr>
</tbody>
</table>

Drive in sealing cap (1) with special tool 23 4 021.

Fit retaining ring using special tool 23 4 021.