## Disassemble/assemble suspension strut

### Components
1. Tensioning device
2. Tensioning plates
3. Cap
4. Nut
5. Suspension strut bearing
6. Spring
7. Shock absorber
8. Stop buffer
9. Rubber bushing
10. Piston rod

### Instructions

#### Removing

**Danger!**
**Risk of injury caused by pinching or crushing** when working on springs or spring bodies that are under load

- Use only approved tensioning devices; shield off hazard area if necessary.
- Inspect special tools for damage and proper operation (visual inspection).
- Wear protective gloves.

1. Remove front suspension strut

#### Disassemble

2. Clamp tensioning device (1) in vise and insert clamping plates (2)
   - Tensioning device
   - Tensioning plates
   - Clamping plate

3. Insert spring (6) of suspension strut into clamping plates (2)
   - Position spring (6) in clamping plates (2) such that at least three coils of spring (6) are clamped.
   - Tensioning device
   - Tensioning plates
   - Clamping plate

4. Clamp spring (6) until suspension strut mount (5) is relieved of load
   - Tensioning device
   - Tensioning plates
   - Clamping plate

5. Remove cap (3)

6. Unscrew nut (4)
   - When slackening nut (4), counterhold piston rod (10).

7. Remove suspension strut bearing (5)
   - Check suspension strut bearing (5); install new suspension strut bearing (5) if necessary.

8. Remove shock absorber (7) from spring (6)
   - Check shock absorber (7) for damage; install new shock absorber (7) if necessary.

9. Remove rubber mount (9) from shock absorber (7)

**Danger!**
**Risk of injury caused by drilling gas-filled assemblies or components** (noncombustible gases)

- Wear safety glasses and a face mask.

10. Dispose of shock absorber (7) properly
    - Only when installing new shock absorber (7).
Notes on scrapping gas-filled hydraulic components

11 Release load on spring (6) and remove from clamping plates (2)

12 Insert spring (6) into clamping plates (2) of tensioning device (1) and tension spring (6) such that at least three coils of spring (6) are clamped.

13 Insert rubber mount (9) into shock absorber (7)

14 Insert shock absorber (7) into spring (6)

15 Insert suspension strut bearing (5)

16 Tighten nut (4)

17 Release load on spring (6) and remove suspension strut from clamping plates (2) of tensioning device (1)

Install

18 Install front suspension strut

### Struts

<table>
<thead>
<tr>
<th>Number</th>
<th>Designation</th>
<th>Model 169</th>
<th>Model 245</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA32.25-P-1001-04J</td>
<td>Self-locking nut, spring plate to piston rod</td>
<td>Nm 67</td>
<td>67</td>
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</tbody>
</table>

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