

Tips and tricks for workshops

Reliable and safe: Replacement of Bosch hydraulic steering systems

Due to their safety-relevant nature, steering systems are mostly maintenance-free and designed to last for the complete vehicle life cycle. Of course, attachment parts such as tie rods and bellows can be damaged or worn out and should then be replaced. However, complete steering systems usually only need to be replaced in the event of an accident or mechanical overloads affecting the steering function. When working on steering systems, comprehensive visual and functional inspections are always the first step.

For this purpose, operating forces, resetting, clearances, noises and the warning lamp are checked. Workshops using ESI[tronic] software will find comprehensive service and installation instructions included within the SIS module. They provide information concerning troubleshooting on electrical and mechanical systems. Afterwards, an additional in-depth diagnosis is performed to determine whether a steering system needs to be replaced or if it can be repaired.

The following points should always be observed:

- Install the steering system exactly as described in the installation manual.
- Only use attachment parts such as tie rods, bellows and mounting clamps approved by the manufacturer.
- Install all attachment parts properly as to prevent consequential damages such as corrosion.
- Only use hydraulic oils approved by the manufacturer.
- When maintaining hydraulic steering systems, flush the system and, if required, replace the fine-mesh filter as well.
- Once the steering system has been replaced, make sure to fill and bleed it properly.
- Make sure the warning lamp turns off and the fault memory is cleared after the installation.
- Last but not least, perform a test ride on non-public grounds to check the steering system's proper functioning.



Additional information

 **Service documents and installation instructions**

TecDoc: <https://web.tecalliance.net/tecdocsw/en/login>

 **Online at**

www.boschaftermarket.com