

Check Tie Rod Outer Joint Of Steering Gear

Topic number	LI46.35-P-071461
Version	1
Function group	46.35 Electrical steering
Date	07-21-2020
Validity	Model: All with electric steering
Reason for change	Added under remedy: => replace tie rod outer joint

Complaint:

Knocking noises when driving or steering

Attachments	
File	Description
001.mp4	Tie rod outer joint OK
002.mp4	Tie rod outer joint faulty

Cause:

- Possible wear in the tie rod outer joint
- Possible corrosion / water ingress due to damaged sealing bellows on joint
 - > caused e.g. by cracks, animal bites, high pressure cleaners

Remedy:

Check wear of tie rod outer joint using the following procedure.

1. Check sealing bellows on joint for damage. Sealing bellows damaged: Replace outer joint => Not warranty.
2. Move the outer joint around multiple times with circular movements of the ball pin
3. Hold the outer joint horizontal on the housing and move the ball pin out to the end stop then release it:
 - If there is still friction in the joint of the ball pin and it prevents the ball pin from returning => the joint or play is OK (see video 001)
 - If the ball pin is moved quickly back toward the center of the joint by the return forces of the sealing bellows => the play of the joint is not OK (see video 002) => replace the tie rod outer joint