

Vehicle appears to lean

| | |
|-------------------|-------------------------|
| Topic number | LI60.80-P-054047 |
| Version | 3 |
| Function group | 60.80 Cab, cab mounting |
| Date | 06-21-2016 |
| Validity | Model series: 461, 463 |
| Reason for change | codes |

Complaint:

Vehicle appears to lean

Cause:

#1 - Frame not straight on chassis

#2 - Body not straight on frame

Remedy:

1. Check to find the cause

- Before checking, remove all heavy objects from the vehicle interior
- Avoid subjecting suspension to mechanical stress

1.1 Check for crooked frame:

- Park vehicle on level ground
- Measure distance between frame and ground (front left/right, rear left/right)
- Variations ≤ 15 mm are within tolerance and do not signify any technical defect
- If variations > 15 mm are found, continue with step 2.1
- If the variations are OK, continue with step 1.2

1.2 Check for crooked body:

- Park vehicle on level ground
- Measure distance between wheel arch and ground (front left/right, rear left/right)
- Variations ≤ 15 mm are within tolerance and do not signify any technical defect
- If variations > 15 mm are found, continue with step 2.2

XENTRY TIPS

2. Remedies (if variations > 15 mm):

2.1 Crooked frame (cause I):

A:

- Slacken threaded connections of trailing arms
- Rock the vehicle at the body several times back and forth to release any stresses between the suspension and the frame
- Retighten threaded connections to the specified torque
- Assess position of vehicle. If not OK -> Remedy B

B:

- Remove springs
- Compare length of springs on one axle in the removed state
- If there is a variation: Install left spring on right side and right spring on left side
- Assess position of vehicle. If not OK -> Remedy C

C:

Important: Changing the position of the body relative to the frame can produce an angular misalignment between the body and the bumper. This must be corrected if necessary by centering the bumper.

- Slacken bolts of body mounts
- Unfasten steering spindle and disconnect from steering shaft
- Lift body and correct lean by inserting shims (each bearing point must have at least one, but no more than two shims)
- Bolt body back onto frame
- Assess position of vehicle. If not OK -> Replace shims again
- Install steering spindle
- Center bumper if necessary

2.2 Crooked body (cause II):

Perform remedy C only

| Attachments | |
|--------------------------------|---|
| File | Description |
| 2_Messpunkte_Aufbau.jpg | Measuring points for measuring body height at wheel arch |
| 2_Messpunkte_Rahmen_hinten.jpg | Measuring points for measuring rear frame height at lower edge of mounting consoles |

XENTRY TIPS

| | |
|-------------------------------|--|
| 2_Messpunkte_Rahmen_vorne.jpg | Measuring points for measuring front frame height at lower edge of towing eyes |
|-------------------------------|--|

| Parts | | | | | | |
|-----------------|-----|-----|-------------|----------|-------------|-----|
| Part number | ES1 | ES2 | Designation | Quantity | Note | EPC |
| A 461 317 00 51 | | | Shim 3 mm | 1 | As required | X |
| A 667 317 02 76 | | | Shim 5 mm | 1 | As required | X |
| A 461 317 01 51 | | | Shim 8 mm | 1 | As required | X |
| A 461 317 03 76 | | | Shim 10 mm | 1 | As required | X |

| Operation numbers/damage codes | | | | |
|--------------------------------|------------------------------|------|-------------|------|
| Op. no. | Operation text | Time | Damage code | Note |
| 40-7501 | MEASURE FRAME, INSTALL SHIMS | | 31001 A3 | |