

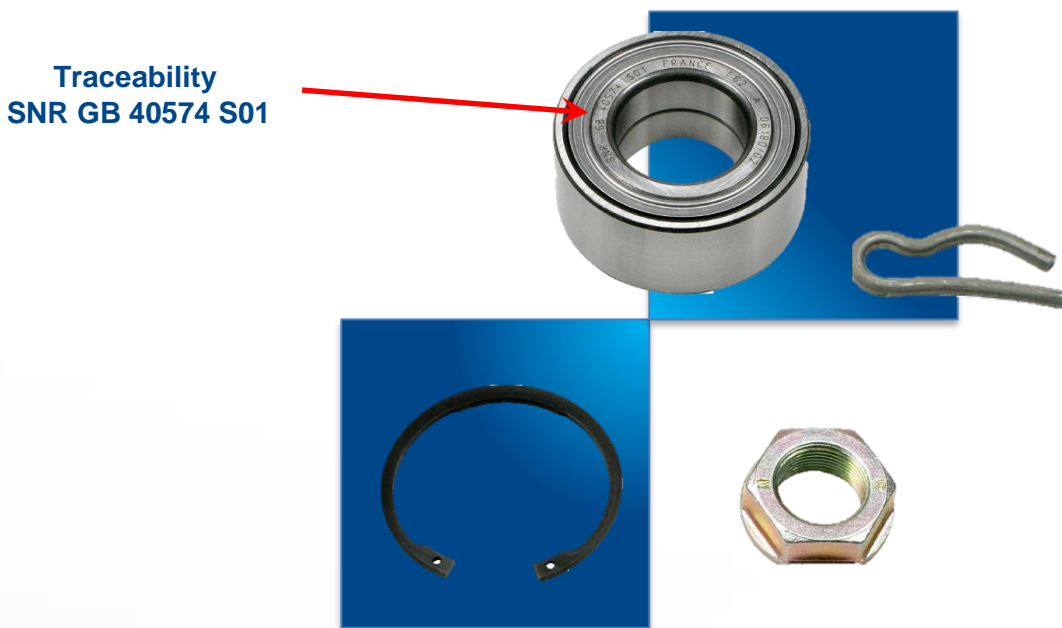


R166.13

Removal / Installation recommendations

<p>CITROËN: Berlingo (M49, M59), BX, Xantia (I and II), Xsara (Picasso, FL), ZX</p> <p>PEUGEOT: 205, 206, 305 (II), 306 (I and II), 309 (I and II), 405, Restyling, 406, 406 FL, Partner (M49, M59), Ranch (M49, M59F/U)</p>	<p>OE reference 3326-35, 3350-33 <u>95 619 160</u>, 96 129 301</p>
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IDENTIFICATION OF WHEEL KIT R166.13



COMMON PROBLEMS WITH KIT R166.13

PROBLEMS WITH ROLLING NOISE AND VIBRATIONS

PROBABLE CAUSES

Damaged stub axle

Check the condition of the stub axle before installing the bearing.

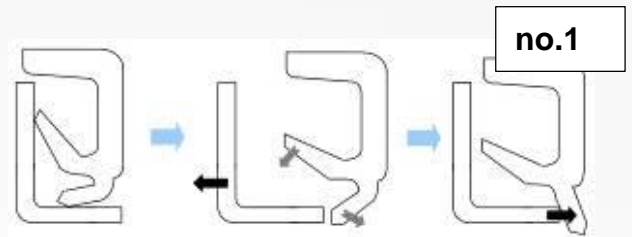
Be careful not to damage the bearing seats while removing the stub axle or the hub.



Worn kingpin and skewed installation

Play in the bearing

- Incorrect tightening of the bearing can cause the lips of the seal to be cut by the movement of the rings the gap. **(no.1)**
- The movement of the rings will cause fretting on the faces of the inner rings **(no.2)** and contact marks on the back of the seals.



Severe impact

When the assembly is subjected to a severe impact during installation, the force is transmitted by the balls, leaving dents (no.3) on the inner ring, these dents cause the bearing to quickly become noisy.



Make sure that the bearing is pressed into the hub by pushing against the outer bearing ring and pressed onto the stub axle by pushing against the inner ring.

REPLACEMENT

Tightening torques

- Drive shaft nut: **325 Nm**
- Wheels: with steel rim **90 Nm**, with aluminium rim **100 Nm**
SNR recommends using HAZET tools.

Tools required for replacement

Strut arm spacing tool Ref. Class OM 9272

Bearing inner ring extraction tool Ref. Class OM 8033

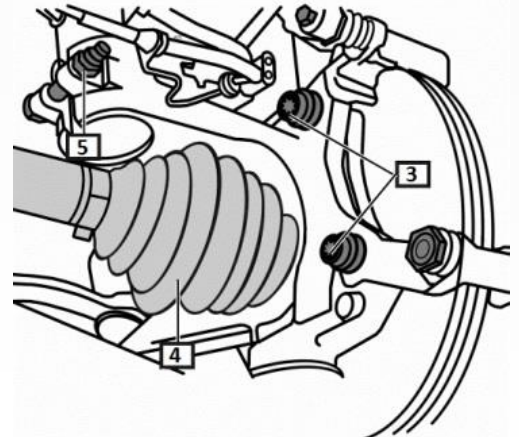
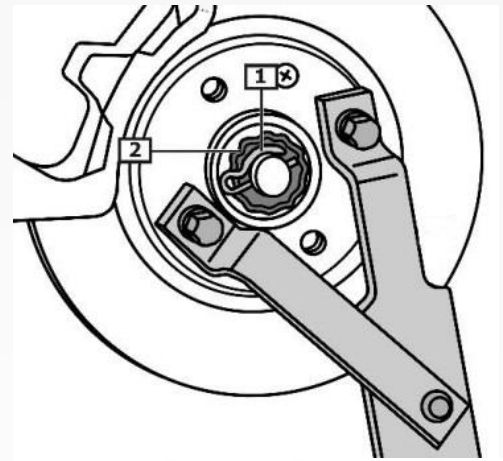


For the bearing to operate correctly, the correct tightening torques must be applied to the bearing.



REMOVAL

- 1) Remove the front wheels
- 2) Remove the split pin (no.1)
- 3) Unscrew the castellated nuts from the drive shaft (no.2)
- 4) Separate the steering ball joint
- 5) Separate the lower ball joint from the control arm
- 6) Detach the brake line from the brake calliper
- 7) Unscrew the brake bracket bolt and remove the brake calliper (no.3)
- 8) Remove the brake discs
- 10) Use pressure to extract the drive shaft (no.4)
- 11) Fasten the drive shaft to one side using a cable tie
- 12) Remove the lower shock absorber fastener (no.5)
- 13) Install the extractor: OE 0709, Clas OM 9272
- 14) Move the kingpin out of the way slightly to extract the shock absorber
- 15) Remove the kingpin
- 16) Remove the circlip from the wheel bearing
- 17) Place the kingpin in a vice and use a puller to extract the hub from the kingpin (no.6)
- 18) Extract the inner ring (no.8) from the hub using extractor OE 4108-T (7), Clas OM 8033



Do not use a grinder to remove the inner bearing ring from the bearing hub, irreversible damage can be caused to the hub .

- 19) Take the extracted inner ring and re-install it in to the bearing that remains inside the kingpin
- 20) Extract the bearing that remains inside the kingpin by pushing against the inner ring



Make sure that the bearing is pressed into the hub by pushing against the outer bearing ring and pressed onto the stub axle by pushing against the inner ring.



RE-INSTALLATION

1) Use a press to press the wheel bearing into the kingpin (no.1) make sure the king pin is held stable and straight during installation (risk of skewed installation) pressure should only be applied against the outer ring only

2) Install the circlip

3) Use the press to press the hub onto the bearing (no.2) while pushing against the inner ring only

4) Press the kingpin onto the hub

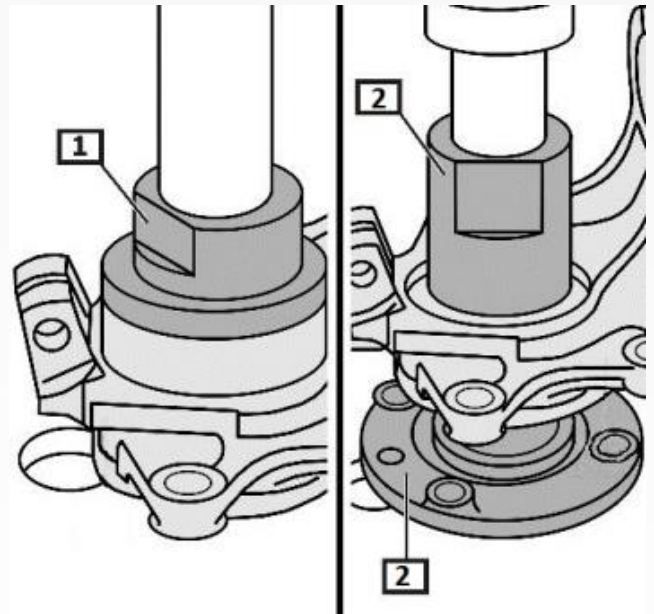
5) Re-install the shock absorber onto the kingpin

6) Re-install the drive shaft, brake disc and calliper

7) Install the drive shaft nut: Tightening torque 325 Nm

8) Install the new split pin

9) Re-install the wheel



Tightening torques: with steel rim **90 Nm**, with aluminium rim **100 Nm**

Recommendations

Make sure all the parts supplied in the kit are replaced, old nuts bolts and circlips cannot be reused.

Follow the vehicle manufacturer's installation procedures and apply the specified tightening torques.

Refer to the vehicle applications in our online catalogue: [e-shop](#)



Scan this QR code to access our online catalogue.

FOLLOW THE RECOMMENDATIONS OF THE VEHICLE MANUFACTURER!

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