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Service Tips and Best Practices

Best Practices – Camber/Caster Sleeve and DANA 60 Axle

Brand	Original Grade/Supreme/TTX	Product	Ball Joint and Alignment Aids	Date	June 2021
Part Number(s)	Various				

When performing any steering or suspension repair on HD trucks or SUVs equipped with the DANA 60 axle which involves removing the upper ball joint from the steering knuckle, it is imperative to adhere to the following:

- If adjustable camber/caster sleeve has been installed, mark position before removal.
- Remove sleeve using appropriate method and tool (2 jaw puller or OTC tool #7558A).
- Do not use a heat source to aid in removal. This can warp/distort or otherwise damage the knuckle bore and or sleeve.
- Do not use a hammer or apply blunt force to aid in removal or installation. This can warp/distort or otherwise damage the knuckle bore and or sleeve.
- Inspect camber sleeve for signs of abnormal wear, enlargement, "out of roundness" and or other damage. **See Figure 1**.

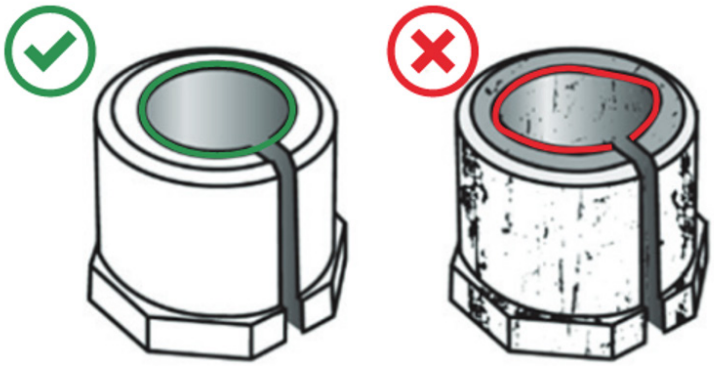
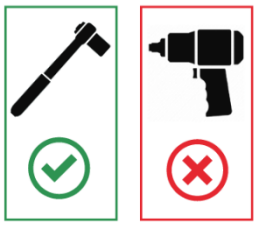


Figure 1.

- If sleeve is determined to be out of specification, discard and replace with 0° sleeve.
- If sleeve is determined to be re-usable, remove all rust, burrs and other contaminants from sleeve.
- Inspect upper and lower knuckle bores for correct press-in diameters and tapered hole/stud tolerances. Replace all damaged or out of specification mating components.
- Clean both upper and lower bores. Remove all rust, burrs and other contaminants.



Failure to perform the above may prevent the correct setting of ball joints during the torque sequence.This may create a "memory steer" or "hard to steer" condition. When performing torque sequence, ensure axle is placed in straight-ahead position. Only use a calibrated torque wrench for all fastening procedures.

Perform vehicle alignment after repair. This will verify if an adjustable camber/sleeve is required to achieve appropriate alignment specification.

Always ensure to refer to the factory service manual for correct removal and installation procedures, torque and alignment values and sequences.

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DISCLAIMER: The information in this communication is intended for use only by skilled technicians who have the proper tools, equipment and training to correctly and safely maintain vehicles. Refer to original manufacturers service manual for proper torque specifications and removal/installation procedures. All content in the publication is provided as-is and without warranty. All care has been taken to ensure the accuracy of the information presented. The publisher assumes no responsibility or liability for any loss or damage, direct, indirect or consequential, arising from the use of the information contained herein.