

Last modified: 02/03/2020 18:55:51

Halfshaft - Rear Drive Unit - LH (Lubricate at Hub)

Correction Code 40302405

Special tool(s) required for this procedure:

Supplier	Part Number	Description
Tesla	1117845-00-A	Wheel Lug Nut Cover Removal Tool
Tesla	1096075-00-A	Hydraulic Hub Puller

Repair

1. Use a suction cup clamp to remove the LH rear wheel center cap.



2. Use the wheel nut cover removal tool to remove the LH rear wheel lug nut covers.



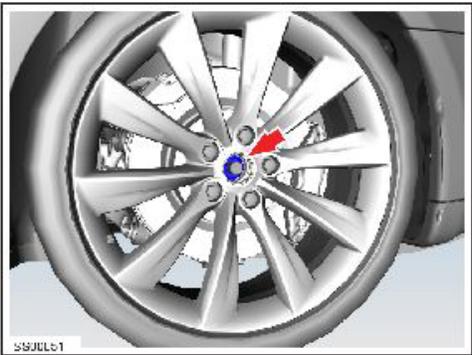
3. Loosen the LH rear wheel lug nuts.



CAUTION
Use only hand tools to remove or install the fasteners. Do not use impact or power tools.

CAUTION
Use a 6 point socket. Do not use a 12 point socket or a specialty socket.

4. Loosen the LH rear drive unit halfshaft nut.



5. Raise and support the vehicle. See [Raise Vehicle - 2 Post Lift](#) .
6. Remove the lug nuts from the LH rear wheel, and then remove the wheel from the vehicle.

7. Remove and discard the LH rear drive unit halfshaft nut and washer.



- Note**
The washer is attached to the nut.

8. Use 2 lug nuts and 2 hydraulic hub puller washers to install the hydraulic hub puller tool onto the LH rear wheel studs.



- CAUTION**
Install the washer and nut sets on opposite sides of the LH rear wheel hub.

9. Hold the hub in position, and turn the hydraulic hub puller tool handle clockwise to push the LH rear drive unit halfshaft in from the LH rear hub assembly for a distance of 50 mm.



- CAUTION**
If the halfshaft stops moving in respect to the hub, stop, and turn the tool handle counter-clockwise for two turns.



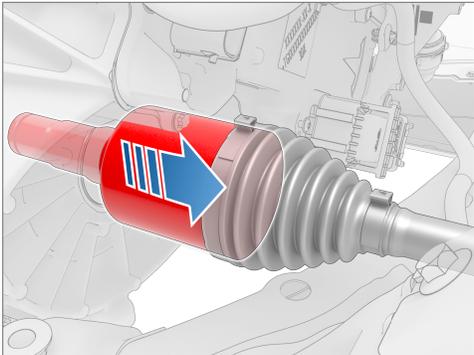
10. Apply approximately 1 gram of *Molykote M-77 Lubricant Paste* only to the hub mating face on the outboard side of the LH rear drive unit halfshaft.

Tip: A bent acid brush can be of assistance.

CAUTION

Do not apply any lubricant to the halfshaft splines. If lubricant is mistakenly applied, wipe the splines clean with a shop towel.

11. Remove the hydraulic hub puller tool from the LH rear wheel studs.



12. Pull on the inner halfshaft cup to confirm that the circlip is locked into place. If the halfshaft detaches from the drive unit then reinstall the halfshaft and then test that it is fully seated.

CAUTION

If reinstalling the halfshaft to the drive unit:

- Take care not to damage or displace the oil seals.
- Make sure that the opening of the snap rings are facing towards the bottom of the drive unit.
- Carefully push the halfshaft into the drive unit until there is an audible "click" from the halfshaft stub contacting the pinion shaft.
- There will be a slight pulling sensation on the halfshaft as the halfshaft circlip locks into place.
- Pull on the inner halfshaft cup to confirm that the circlip is locked into place. If the halfshaft detaches from the drive unit then reinstall the halfshaft and then test that it is fully seated.

13. Install the LH rear drive unit halfshaft into the LH rear hub assembly, and then install and hand-tighten a new rear drive unit halfshaft nut and washer.



14. Install the LH rear wheel, and then install and hand-tighten the wheel lug nuts.

15. Lower the vehicle. See [Raise Vehicle - 2 Post Lift](#) .

16. Fully tighten the LH rear wheel lug nuts in a star-pattern (torque 175 Nm).



17. Fully tighten the LH rear drive unit halfshaft nut (torque 245 Nm).



18. Install the LH rear wheel lug nut covers (x5).



19. Install the LH rear wheel center cap.

Note
Make sure that the emblem is aligned with the valve stem.

