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Rear final drive, removing and installing

Special tools and equipment

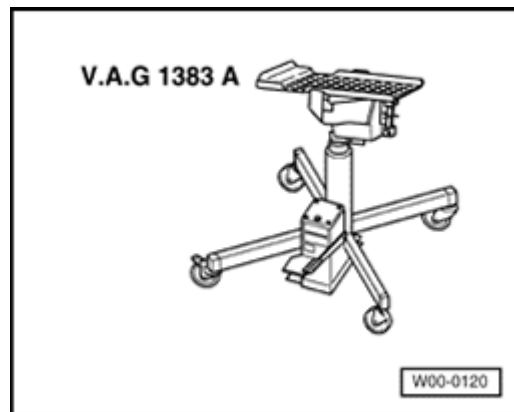
- ◆ VAG1383A engine/transmission hoist

Removing

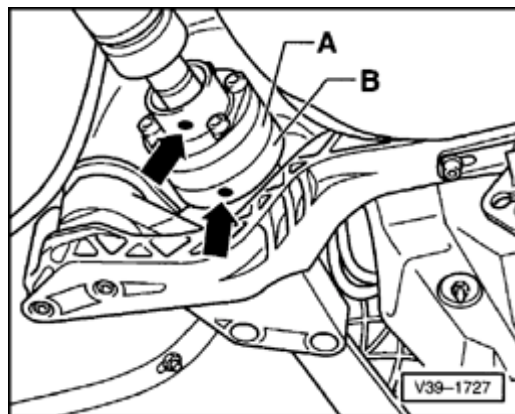
- Remove rear part of exhaust system behind clamping sleeve(s):

⇒ *Repair Manual, Engine Mechanical, Repair Group 26; removing and installing exhaust system*

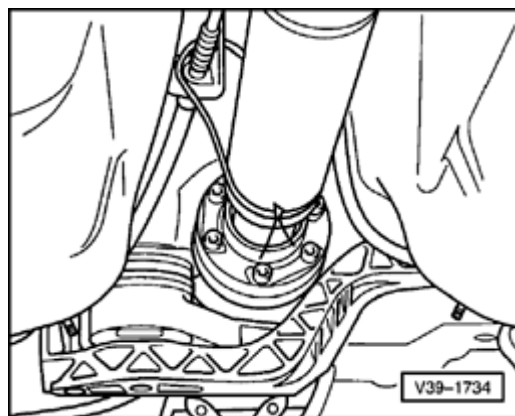
- Remove heat shields above driveshaft.



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- A**
- Check whether there is a factory marking (color marking) on the driveshaft. If not, mark location of driveshaft flange -A- to rear final drive -B- with color.
 - Remove mounting bolts of driveshaft flange.



- A**
- Tie up driveshaft at mount for parking brake cable using wire.

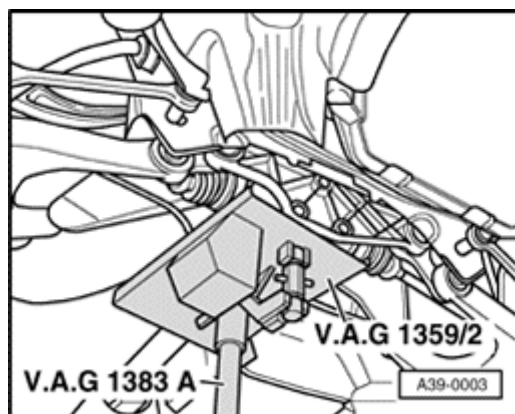
Note:

If the driveshaft cannot be pressed upward past the flange, tie up driveshaft after lowering final drive. When lowering, secure driveshaft against falling down and note permissible bending angle of driveshaft ⇒ Notes ⇒ [page 39-73](#) .

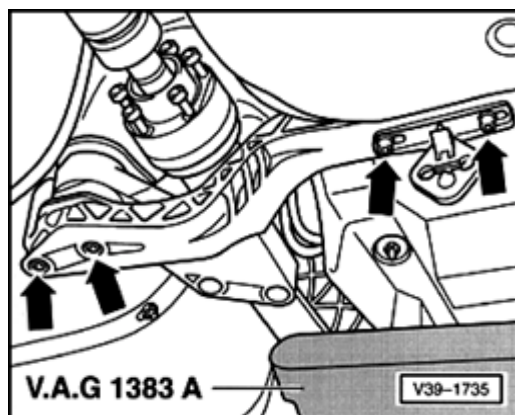
- Loosen left or right drive axle from rear final drive

⇒ [Repair Manual, Suspension, Wheels, Steering, Repair Group 42; Component allocation of rear axle \(All Wheel Drive \(AWD\) vehicles\); Drive axle, removing and installing](#)

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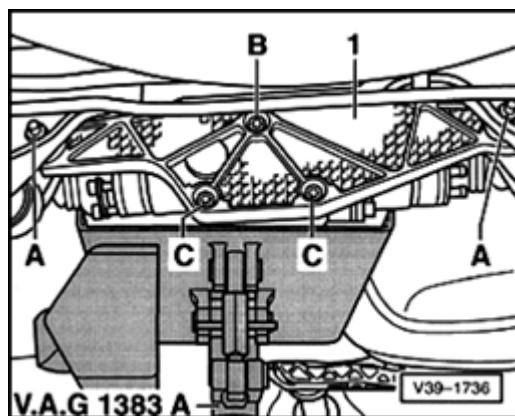


- A**
- Support final drive with VAG1383A transmission hoist and VAG1359/2 universal mount.
 - Secure final drive using belt.



- A**
- Remove bolts (arrows) at front crossmember for rear final drive.
 - Remove front crossmember.

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- A**
- Remove securing bolts -B- and -C- of rear crossmember at rear final drive.
 - Lower final drive using transmission hoist.

Note:

Crossmember -1- does not have to be removed.

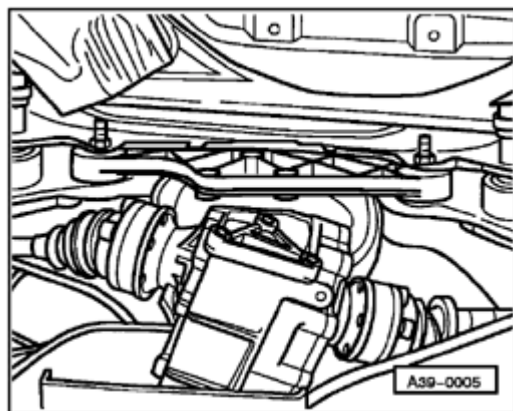
Installing

Installation is reverse of removal, noting the following:

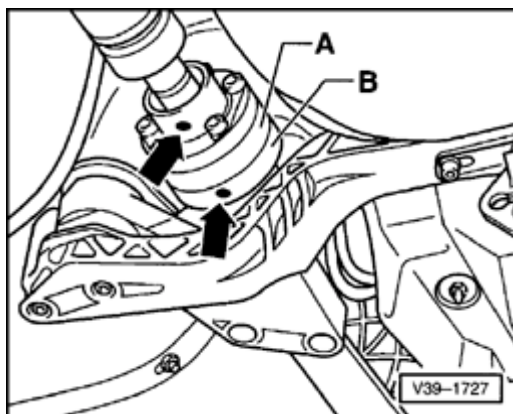
Notes:

- ◆ *Always replace self-locking nuts.*
- ◆ *Always clean any remaining locking fluid from thread for drive flange on rear final drive after removing driveshaft. Otherwise there is a risk that the bolts may become cross-threaded when installed and shear when removed again.*
- ◆ *Cleaning can be performed with a tap.*
- ◆ *Always replace seal between drive flange and driveshaft (remove protective film and attach seal to drive flange). Adhesive surface must be free of grease.*
- ◆ *Replace driveshaft bolts (self-locking).*

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- A**
- Using transmission hoist, lift up final drive until both drive axles can be flanged on.
 - Lightly tighten drive axle securing bolts.
 - Lift final drive and bolt to crossmember and final drive mount.
 - Bolting in driveshaft ⇒ [page 39-83](#) .

Notes:

- A**
- ◆ To prevent imbalance, driveshaft flanges -A- and rear final drive flanges -B- must be installed so that the color markings are aligned (arrows).
 - ◆ After disconnecting driveshaft from rear final drive, an additional balance washer (thick washer) that may be located between shim and bolt head may not be reinstalled.
 - ◆ Replace driveshaft bolts (self-locking).
 - Checking gear oil in rear final drive ⇒ [page 39-94](#) .
 - Install exhaust system free of stress:

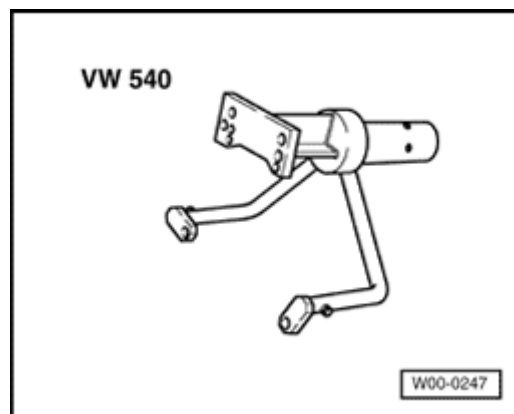
⇒ *Repair Manual, Engine Mechanical, Repair Group 26; removing and installing exhaust system*

Tightening torques

| Component | Nm | |
|---|-----------|----|
| Driveshaft to final drive (Input flange) | 55 | |
| Front crossmember for rear final drive to body | 40 | |
| Front crossmember for rear final drive with exhaust system bracket to body | 23 | |
| Rear crossmember for rear final drive to subframe | 50 | |
| Rear final drive to rear crossmember | 55 | |
| Driveshaft to drive flange | M8 | 40 |
| | M10 | 77 |

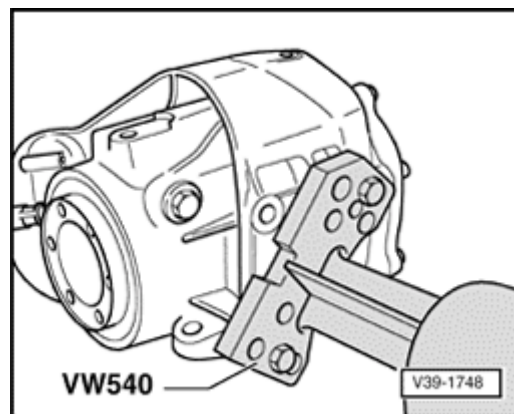
Rear final drive, securing to assembly fixture

Special tools and equipment



A

- ◆ VW540 holding fixture



A

- Secure complete rear final drive to assembly fixture using VW540 holding fixture.