Rear final drive, removing and installing

Special tools and equipment

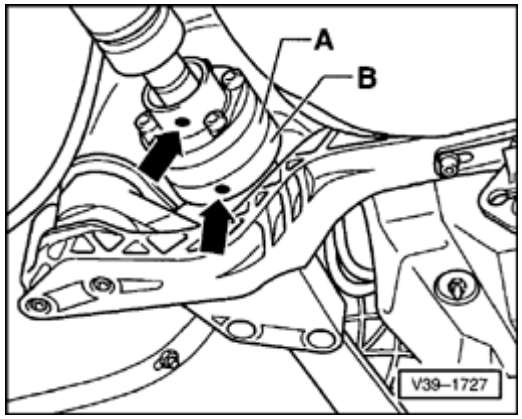
- VAG1359/2 universal transmission attachment
- VAG1383A transmission jack

Removing

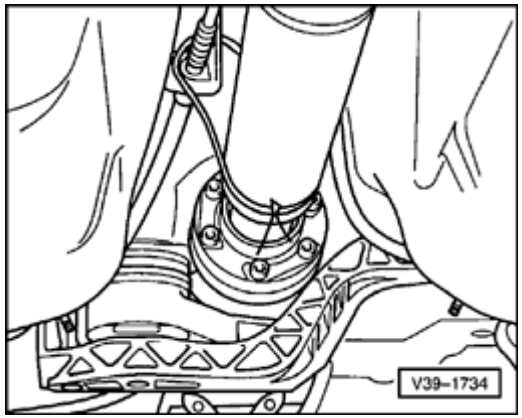
- Remove rear section of exhaust system located rearward of exhaust pipe clamp(s).

⇒ Repair Manual, Engine Mechanical, Repair Group 26

- Remove heat shield above driveshaft.



- Check for factory color marking on driveshaft. If not, mark position of driveshaft flange (arrow -A-) in relation to drive flange in rear final drive (arrow -B-) with color marking.
- Remove mounting bolts from driveshaft flange.



- Tie driveshaft to parking brake cable using wire.

Note:

If the driveshaft cannot be pushed up past the flange, tie up the driveshaft after lowering the differential. When lowering the driveshaft, protect it from dropping and note permissible bend angle of the driveshaft ⇒ Notes, ⇒ Page 39-68 .

- Disconnect left and right driveaxles from final drive.

⇒ *Repair Manual, Suspension, Wheels, Brakes, Steering, Repair Group 42*

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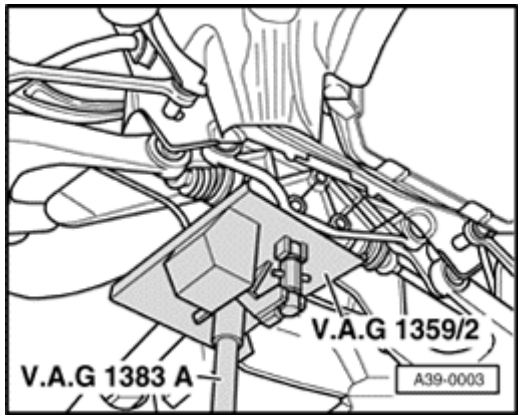
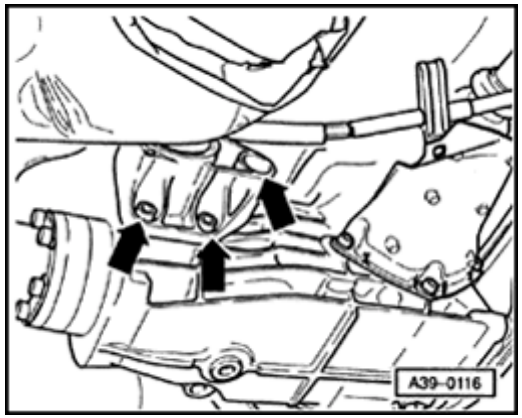
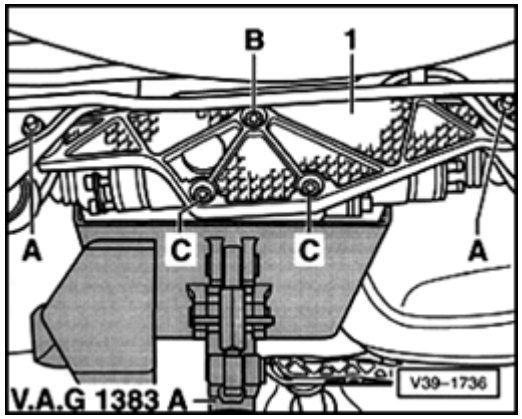


- Place VAG1383A transmission jack with 1359/2 universal transmission attachment under final drive and support weight of final drive.
- Fasten final drive using belt.



- Remove mounting bolts (arrows) of front crossmember for final drive.
- Remove front crossmember.



- Remove mounting bolts -B- and -C- from rear crossmember at final drive.
- Lower final drive using transmission hoist.

WARNING!

For sefety reasons, two persons are required for lowering the final drive, and raising it again for installation.

Note:

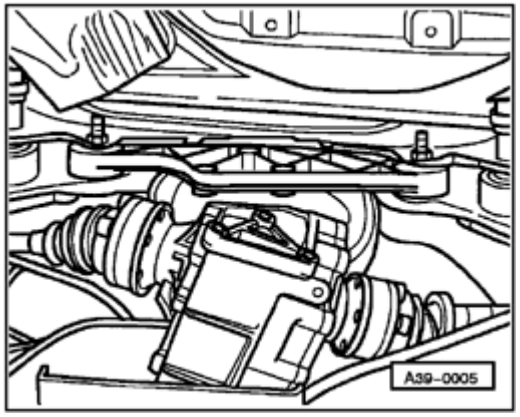
Crossmember -1- does not need to be removed.

Installing

Installation is the reverse of removal, note the following:

Notes:

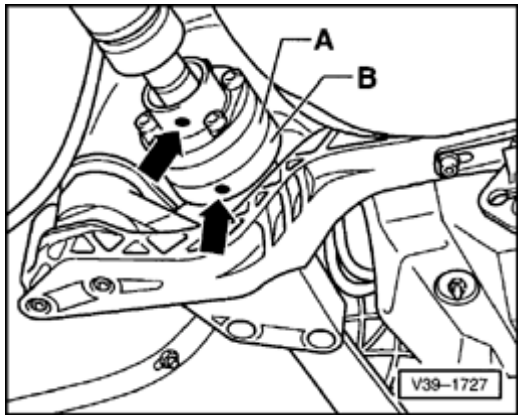
- *Always replace self-locking nuts.*
- *Always replace self-locking driveshaft bolts.*
- *The threaded holes on the drive flange on the final drive should be cleaned of all locking compound residue after driveshaft has been removed. Otherwise there is a risk of seizing the bolt when tightening and subsequently breaking off at the next disassembly.*
- *The threads can be cleaned using a thread tap.*
- *Replace seals between driveshaft and drive flange (remove protective film and bond seal to drive flange. Adhesive bond surface must be free of grease.*



- Use transmission hoist, to raise final drive far enough until both drive axles can be installed.
- Tighten drive axle bolts slightly.
- Raise final drive and bolt to crossmember and transmission support.
- Install drive shaft ⇒ Page 39-74 .

Notes:

- *Always replace self-locking bolts for driveshaft.*



- *To prevent imbalance, the flanges of the driveshaft (arrow -A-) and of the final drive (arrow -B-) must be installed so that the factory color markings (or the color markings made during removal) are aligned.*
- *After removing driveshaft from final drive, additional balance disc (thicker washer) which may have been installed between base plate and bolt head may not be re-installed.*
- Check oil level in final drive ⇒ Page 39-84 .

- Align exhaust system free of stress.

⇒ Repair Manual, Engine Mechanical, Repair Group 26

Tightening torques

Component		Tightening torque
Driveshaft to final drive		55 Nm (41 ft lb)
Front crossmember for final drive to body		40 Nm (30 ft lb)
Front crossmember for differential with mounting bracket for exhaust system to body		23 Nm (17 ft lb)
Rear crossmember for final drive to subframe		50 Nm (37 ft lb)
Rear crossmember to final drive		55 Nm (41 ft lb)
Drive axle to drive flange	M8	40 Nm (30 ft lb)
	M10	80 Nm (59 ft lb)

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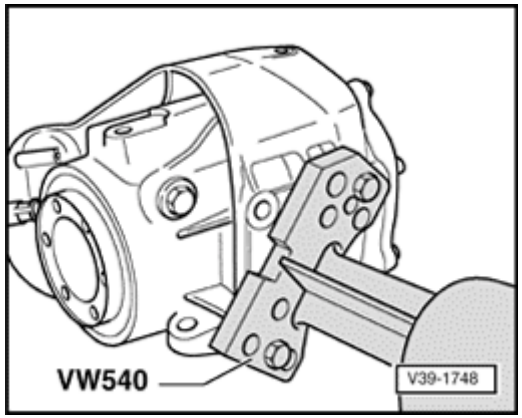
Rear final drive to repair stand, mounting

Special tools and equipment

VW540 holding fixture



- Mount complete final drive to repair stand using VW540 holding fixture.