

TRANSMISSION**Rear Final Drive OBC (Sedan)****39 FINAL DRIVE, DIFFERENTIAL****GENERAL INFORMATION****REAR FINAL DRIVE GEAR OIL, CHECKING****Special tools and workshop equipment required**

- Catch Tray

-- Remove the sealing plug for checking transmission fluid -arrow-.

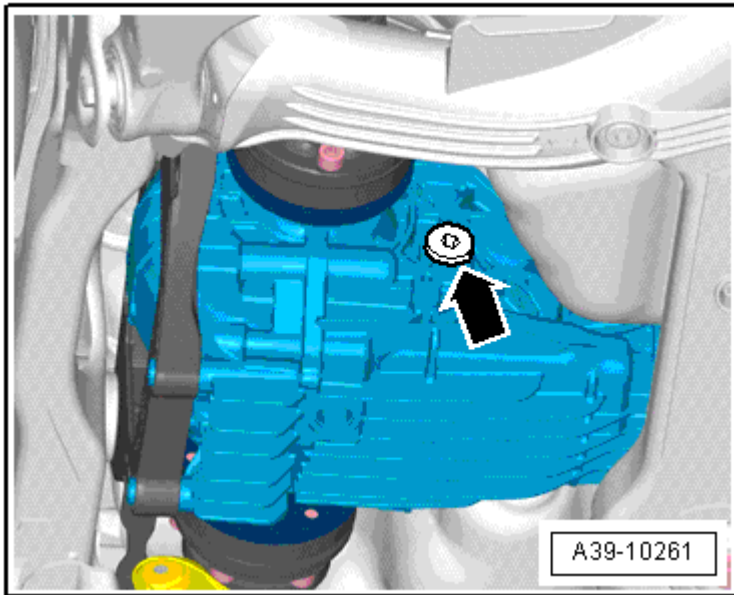


Fig. 1: Removing Plug For Checking Transmission Fluid
Courtesy of AUDI OF AMERICA, LLC

The fluid level is correct when the rear final drive is filled up the lower edge of the fluid fill hole.

- Transmission fluid specification, refer to **SPECIFICATIONS** .

-- Install the check plug -arrow- and tighten.

Tightening specifications: 30 Nm

DESCRIPTION AND OPERATION**DRIVESHAFT BOLTED ON TRANSMISSION-SIDE OVERVIEW**

NOTE: Observe general repair notes, refer to REPAIR INFORMATION .

The driveshafts cannot be repaired. They can only be removed, installed and adjusted.

Always store and transport driveshaft fully extended only.

The driveshaft can be bent at the center joint without using force. A hard bending to the stop may cause damage to the center joint or dust boot.

If the driveshaft is only detached at the transmission or from the rear final drive, it should be tied up or supported at the shaft end. If necessary, it is permitted to bend the driveshaft at the center joint without using force.

Mark the position of all the parts before removing them. Install the parts in the same position, otherwise the imbalance can damage the bearing causing a humming noise.

Use the counterhold tool Touareg V10 T10172 and adapters T10172/5 to loosen or tighten the driveshaft bolts.

After disconnecting the driveshaft from the rear final drive, an installed balance washer (thick washer between backing plate and internal multi-point bolt) may not be reinstalled.

If there are complaints about noise or vibration, make sure there is no tension on the intermediate bearing before replacing the driveshaft.

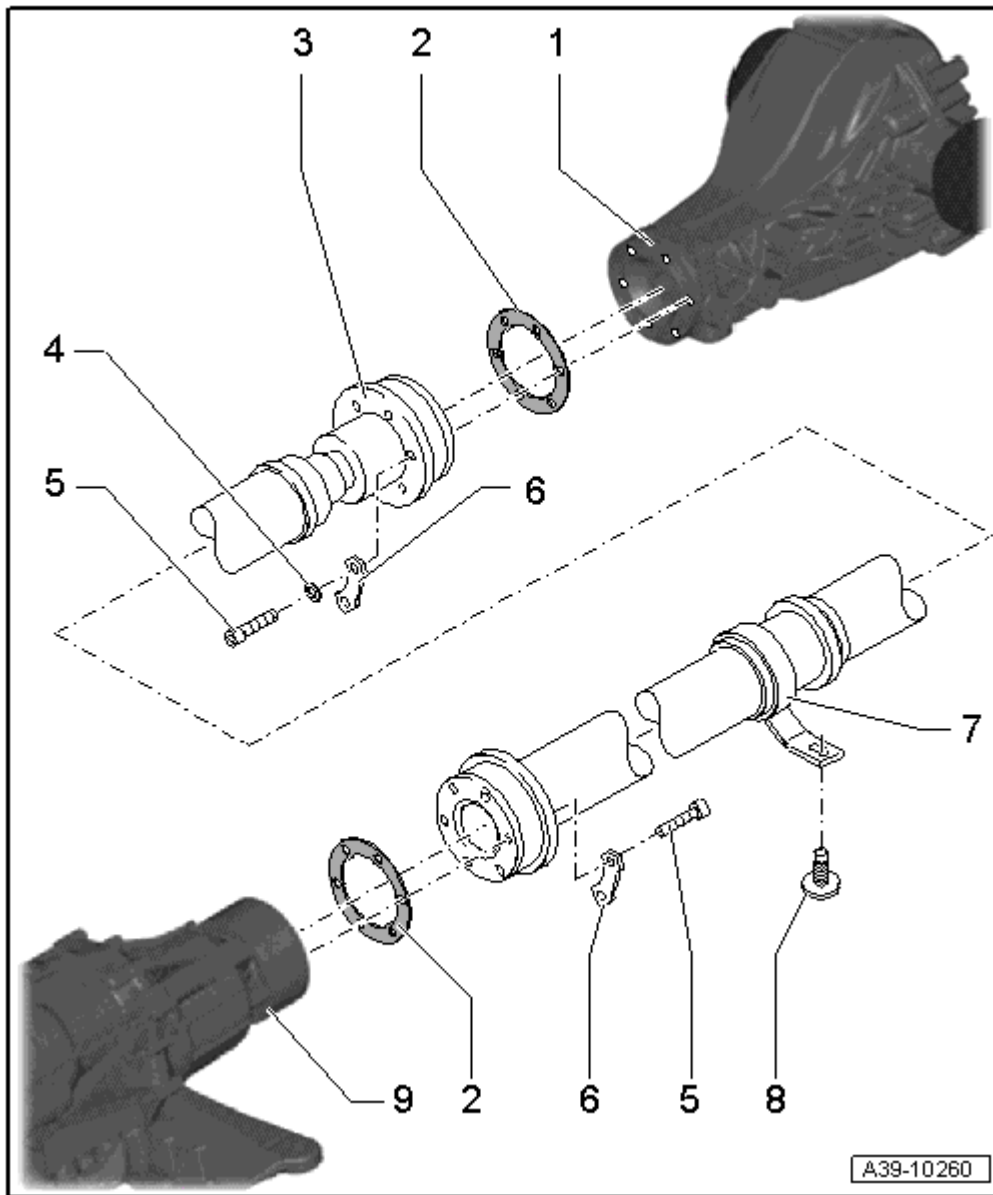


Fig. 2: Driveshaft Bolted On Transmission-Side Overview

Courtesy of AUDI OF AMERICA, LLC

1. Rear Final Drive

- Removing and installing, refer to **REMOVAL AND INSTALLATION**

2. Gasket

- Replace a damaged (bent) gasket.
- A seal that has a rubber layer peeling off, must be replaced
- Remove any grease still on the flange and install the gasket.
- Sides having different color does not influence the installation.

3. Driveshaft

- Removing and installing, refer to **DRIVESHAFT BOLTED ON TRANSMISSION SIDE**

- Removing from the transmission and installing, refer to **DRIVESHAFT, BOLTED ON TRANSMISSION SIDE**
- Removing from the rear final drive and installing, refer to **DRIVESHAFT FROM REAR FINAL DRIVE**

4. Balance Disc

- Not present on every vehicle
- Possibly located between an internal multi-point bolt -item 5- **DRIVESHAFT BOLTED ON TRANSMISSION-SIDE OVERVIEW** and a backing plate -item 6- **DRIVESHAFT BOLTED ON TRANSMISSION-SIDE OVERVIEW** on the rear final drive
- If present, this balancing washer must no longer be installed after disconnecting driveshaft from rear final drive.

5. Bolt

- Always replace if removed
- Self-locking
- Always clean the threaded holes in the flange shafts. (for example, use a thread cutter)
 - On the rear final drive
- Tightening specification and sequence, refer to **Fig. 3**
 - On the transmission
- 30 Nm + 90° turn

6. Locking Plate

7. Intermediate Bearing

8. Bolt

- 20 Nm

9. Drive

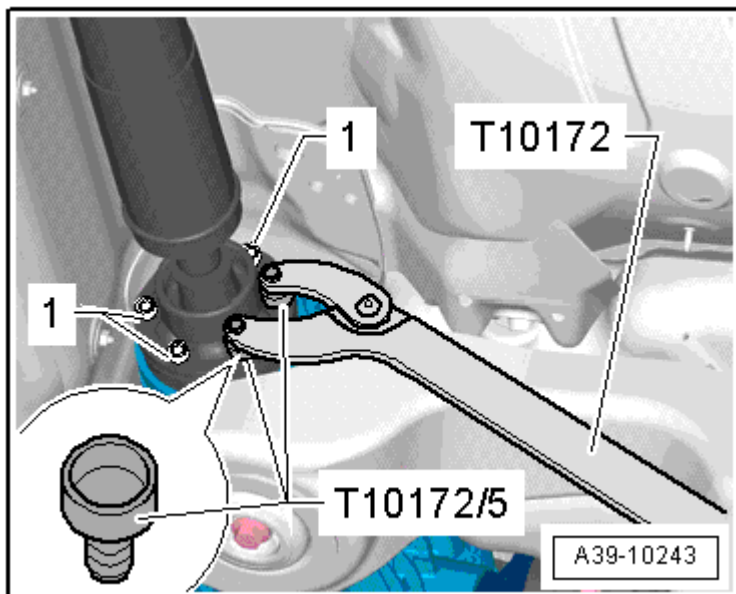


Fig. 3: Counter Hold Using Counterhold Tool Touareg V10 T10172 And Adapters T10172/5
 Courtesy of AUDI OF AMERICA, LLC

- Always replace the driveshaft bolts -1-.
- Counter hold using the counterhold tool Touareg V10 T10172 and adapters T10172/5.

-- Tighten the bolts -1- in 3 steps as follows:

Step	Bolts	Tightening Specification/Additional Turn
1.	-1-	Next to the color dots 30 Nm ¹⁾
2.	-1-	The remaining all around 30 Nm
3.	-1-	90° additional turn all around
• ¹⁾ The CV joint will be pushed toward the opposite side reducing the imbalance.		

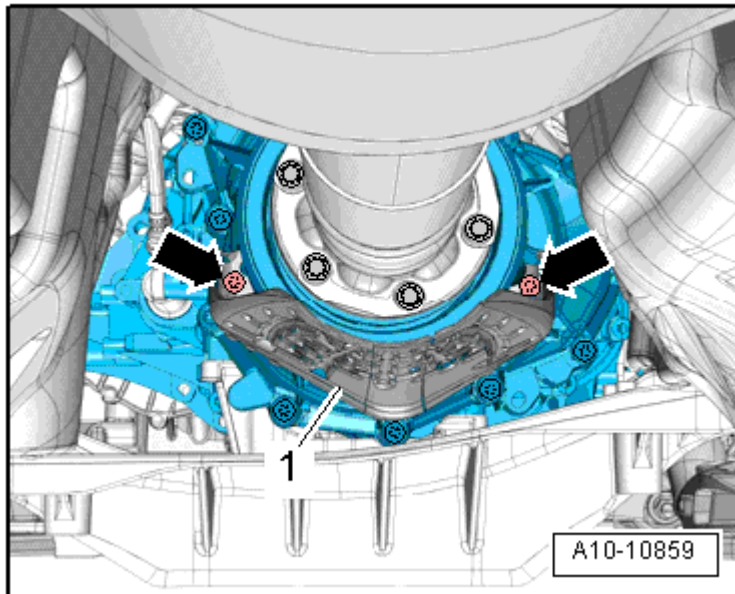


Fig. 4: Identifying Bolts -Arrows-
 Courtesy of AUDI OF AMERICA, LLC

-- Tighten the bolts -arrows- to 24 Nm.

DRIVESHAFT MOUNTED ON TRANSMISSION-SIDE OVERVIEW

NOTE: Observe general repair notes, refer to REPAIR INFORMATION .

The attached driveshaft can only be removed from the transmission if it is removed completely.

The driveshafts cannot be repaired. They can only be removed, installed and adjusted.

Always store and transport driveshaft fully extended only.

The driveshaft can be bent at the center joint without using force. A hard bending to the stop may cause damage to the center joint or dust boot.

If the driveshaft is only detached from rear final drive, it should be tied up or supported at the shaft end. If necessary, it is permitted to bend the driveshaft at the center joint without using force.

Use the counterhold tool Touareg V10 T10172 and adapters T10172/5 to loosen or tighten the driveshaft bolts.

Always hold the driveshaft horizontal when installing it or removing it from the transmission output shaft.

Follow the tightening sequence for attaching the driveshaft bolts to the rear final drive. Refer to Fig. 6.

If there are complaints (noise, vibration), do the following before replacing the driveshaft:

- Make sure the center bearing is free of tension.
- Remove the driveshaft bolts on the rear final drive. Tighten the driveshaft following the tightening sequence. Refer to Fig. 6.

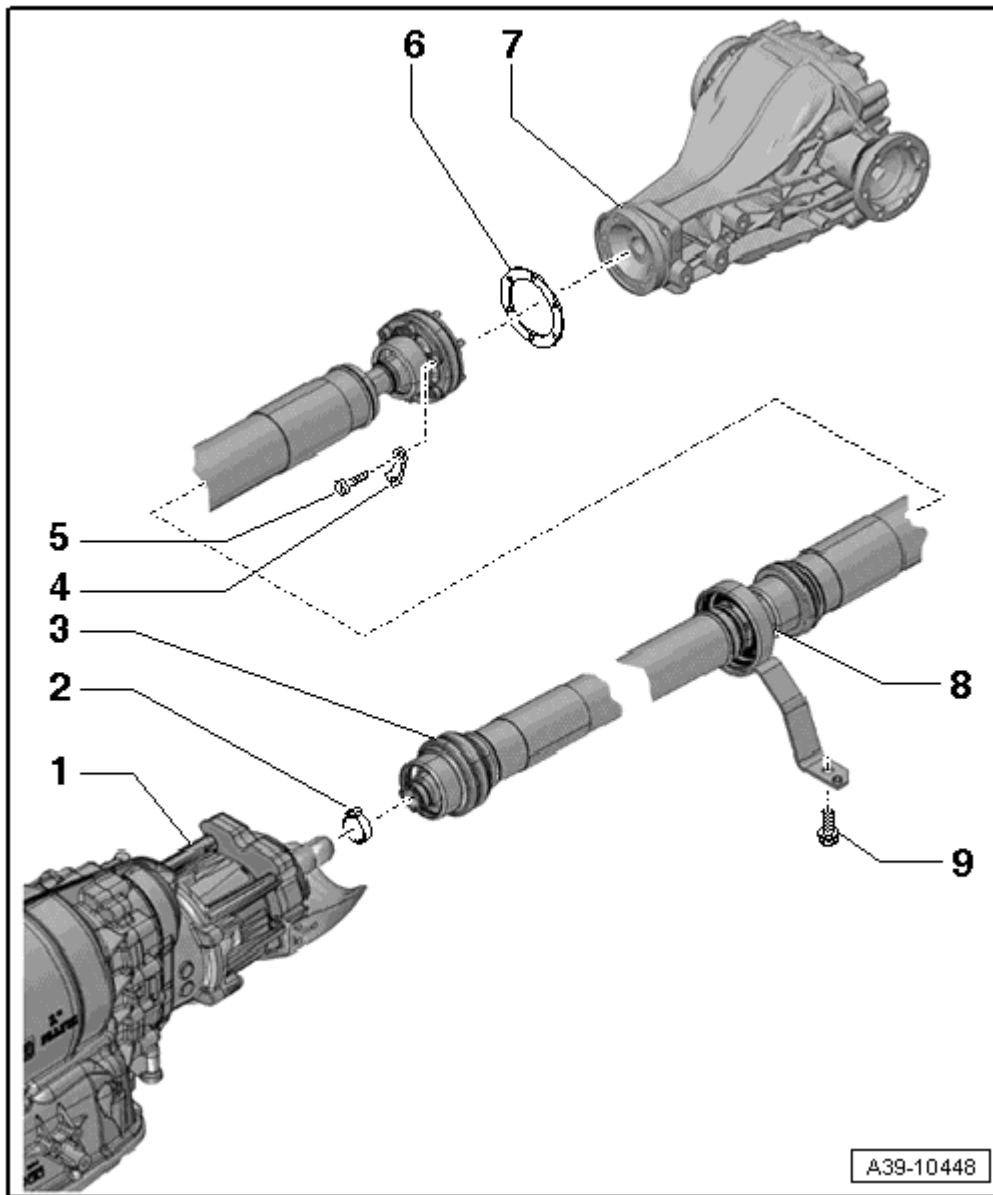


Fig. 5: Removing Driveshaft Bolts On Rear Final Drive

Courtesy of AUDI OF AMERICA, LLC

1. Drive
2. Hose Clamp
 - Replace
3. Driveshaft
 - Removing and installing, refer to **DRIVESHAFT ATTACHED ON TRANSMISSION SIDE**.
 - Removing from the rear final drive and installing, refer to **DRIVESHAFT FROM REAR FINAL DRIVE**
4. Locking Plate
5. Bolt

- Self-locking
- Always replace if removed
- Threaded holes in the flange shaft at rear final drive must be cleaned of locking compound residue. Use a thread cutter to clean the holes.
- Tightening specification and sequence, refer to **Fig. 6**

6. Gasket

- Replace a damaged (bent) gasket.
- A seal that has a rubber layer peeling off, must be replaced.
- Remove any grease still on the flange and install the gasket.
- Sides having different color does not influence the installation.

7. Rear Final Drive

Removing and installing, refer to **REMOVAL AND INSTALLATION**

8. Intermediate Bearing

9. Bolt

- 20 Nm

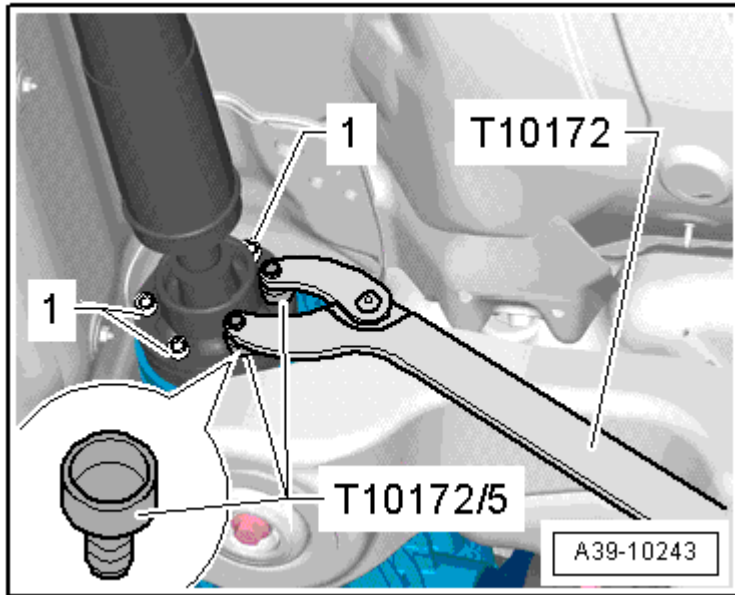


Fig. 6: Counter Hold Using Counterhold Tool Touareg V10 T10172 And Adapters T10172/5
Courtesy of AUDI OF AMERICA, LLC

- Always replace the driveshaft bolts -1-.
- Counter hold using the counterhold tool Touareg V10 T10172 and adapters T10172/5.

-- Tighten the bolts -1- in 3 steps as follows:

2012 Audi S4

TRANSMISSION Rear Final Drive OBC (Sedan)

Step	Bolts	Tightening Specification/Additional Turn
1.	-1-	Next to the color dots 30 Nm ¹⁾
2.	-1-	The remaining all around 30 Nm
3.	-1-	90° additional turn all around
¹⁾ The CV joint will be pushed toward the opposite side reducing the imbalance.		

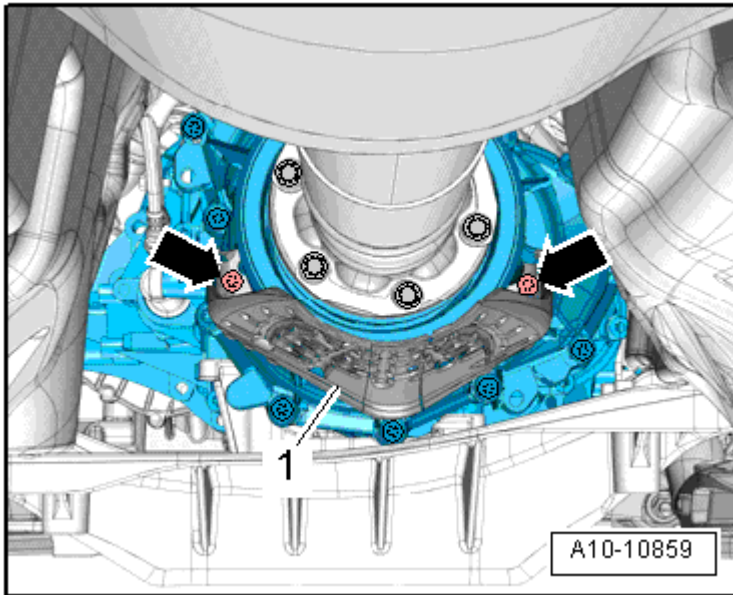


Fig. 7: Identifying Bolts -Arrows-
Courtesy of AUDI OF AMERICA, LLC

-- Tighten the bolts -arrows- to 24 Nm.

REAR FINAL DRIVE OVERVIEW

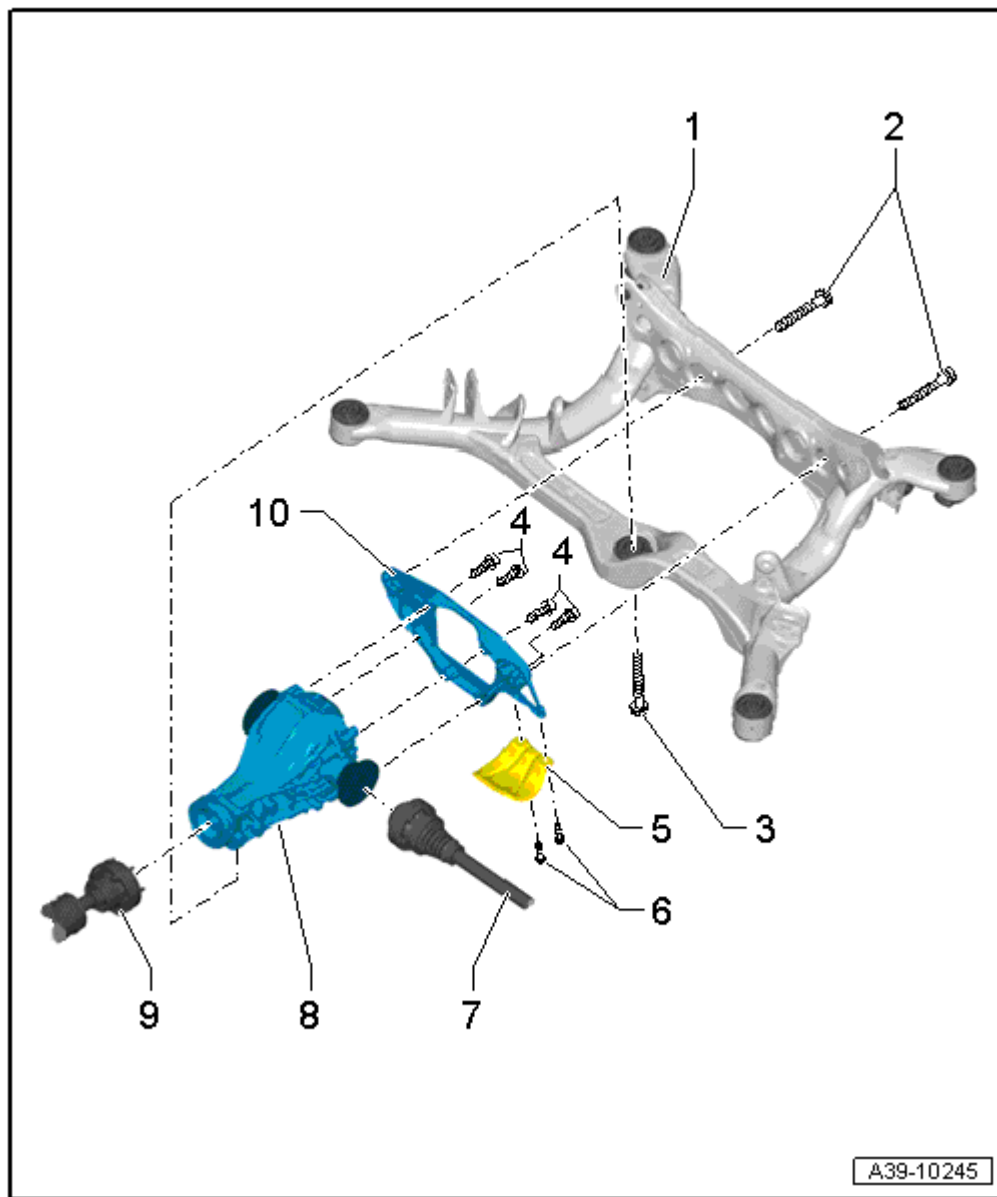


Fig. 8: Rear Final Drive Assembly Overview

Courtesy of AUDI OF AMERICA, LLC

1. Subframe
 - Removing and installing, refer to **[For engine(s) CAEB, CALA, CCBA] Removal and Installation**
2. Bolt
 - 95 Nm
3. Bolt
 - 55 Nm
4. Bolt
 - 55 Nm

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TRANSMISSION Rear Final Drive 0BC (Sedan)

5. Heat Shield
6. Bolt
 - 20 Nm
7. Driveshaft
 - Removing and installing, refer to **[For engine(s) CAEB, CALA, CCBA] Removal and Installation**
8. Rear Final Drive
 - Removing and installing, refer to **REAR FINAL DRIVE**
 - Removing and installing, refer to
 - Removing and installing, refer to
9. Driveshaft
 - Removing and installing, refer to **DRIVESHAFT BOLTED ON TRANSMISSION SIDE** and **DRIVESHAFT ATTACHED ON TRANSMISSION SIDE**
 - Removing from the rear final drive and installing, refer to **DRIVESHAFT FROM REAR FINAL DRIVE**
10. Crossmember

SPECIFICATIONS

FASTENER TIGHTENING SPECIFICATIONS

Component	Bolt Size	Nm
Backing Plate to Driveshaft ¹	-	30 + 90°
Check Plug for Rear Final Drive	-	30
Crossmember to Rear Final Drive	-	55
Heat Shield	-	20
Intermediate Bearing Bracket	-	20
Subframe to Frame	-	55
Subframe to Rear Final Drive	-	95
• ¹ Always replace		

Driveshaft to Rear Final Drive - Tightening Specification and Sequence

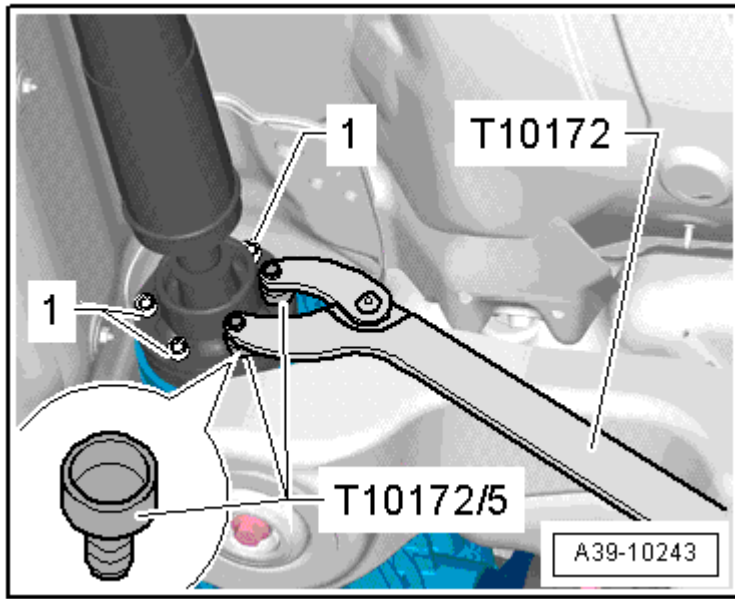


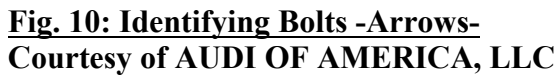
Fig. 9: Counter Hold Using Counterhold Tool Touareg V10 T10172 And Adapters T10172/5
 Courtesy of AUDI OF AMERICA, LLC

- Always replace the driveshaft bolts -1-.
- Counter hold using the counterhold tool Touareg V10 T10172 and adapters T10172/5.

-- Tighten the bolts -1- in 3 steps as follows:

Step	Bolts	Tightening Specification/Additional Turn
1.	-1-	Next to the color dots 30 Nm ¹⁾
2.	-1-	The remaining all around 30 Nm
3.	-1-	90° additional turn all around
• ¹⁾ The CV joint will be pushed toward the opposite side reducing the imbalance.		

Driveshaft Heat Shield - Tightening Specification



REMOVAL AND INSTALLATION

Special tools and workshop equipment required

- ## Removing

- See note, refer to **DRIVESHAFT BOLTED ON TRANSMISSION-SIDE OVERVIEW**
- Working on the driveshaft should only be performed with the vehicle on a two-column shop hoist.

NOTE: Do not bend the decoupling element in the front exhaust pipe more than 10°, otherwise it will get damaged.

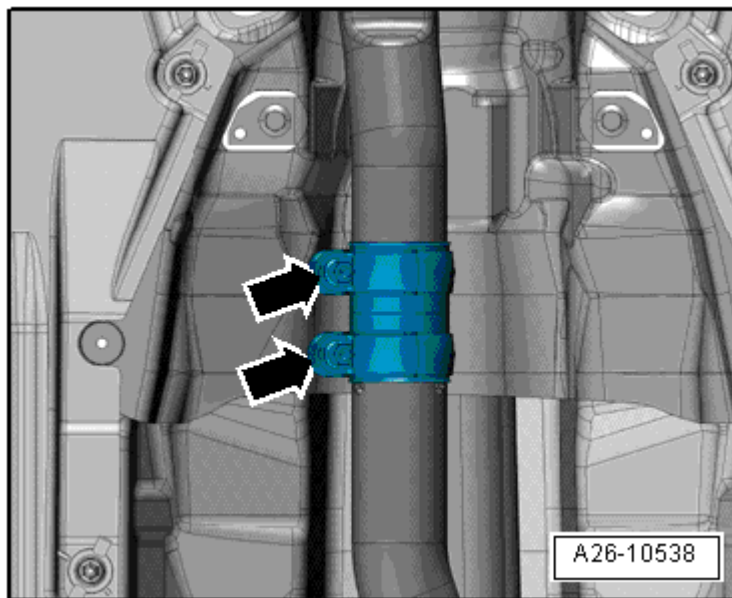


Fig. 11: Clamping Sleeve Threaded Connections
Courtesy of AUDI OF AMERICA, LLC

-- Loosen the clamping sleeve(s) -arrows- and disconnect the exhaust system.

-- Tie the front exhaust pipe(s) to the underbody.

-- Install rear section of the exhaust system -2-. Refer to [For transmission(s) 0AW] [For engine(s) CALA] Description and Operation or to [For engine(s) CAEB] Description and Operation or to [For engine(s) CCBA] Description and Operation .

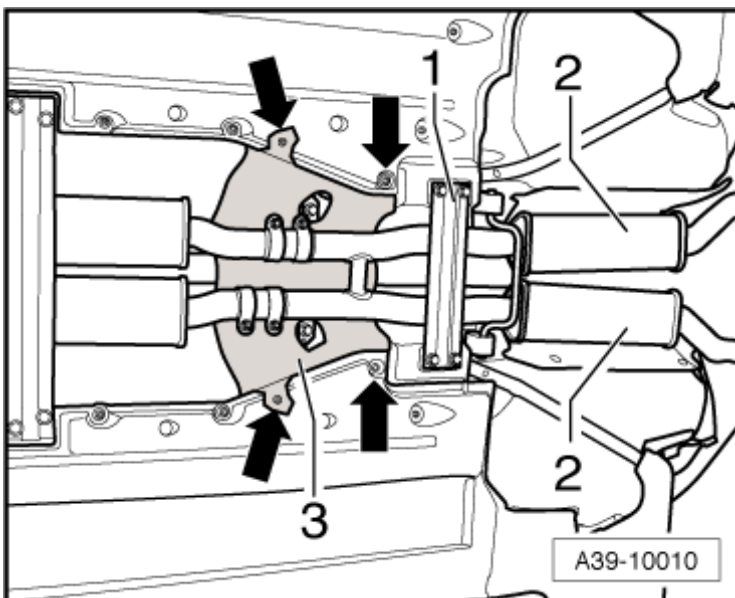


Fig. 12: Removing Rear Transverse Beam & Heat Shield From Vehicle Floor
Courtesy of AUDI OF AMERICA, LLC

NOTE: A second technician will be needed to help remove the rear section of the exhaust system.

Audi A4 and Audi A5

-- Remove the crossmember -1-.

-- Remove the heat shield -3- -arrows-.

Audi Q5

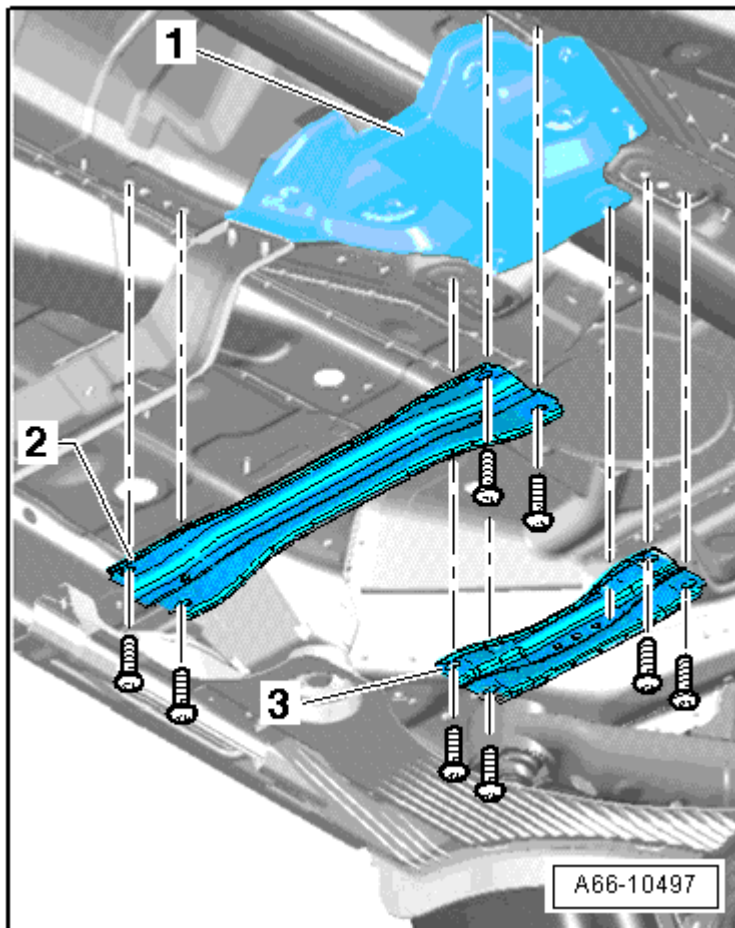


Fig. 13: Identifying Crossmember

Courtesy of AUDI OF AMERICA, LLC

-- Remove the front -2- and rear -3- crossmembers.

-- Remove the heat shield -1- from the body.

Continuation for All Vehicles

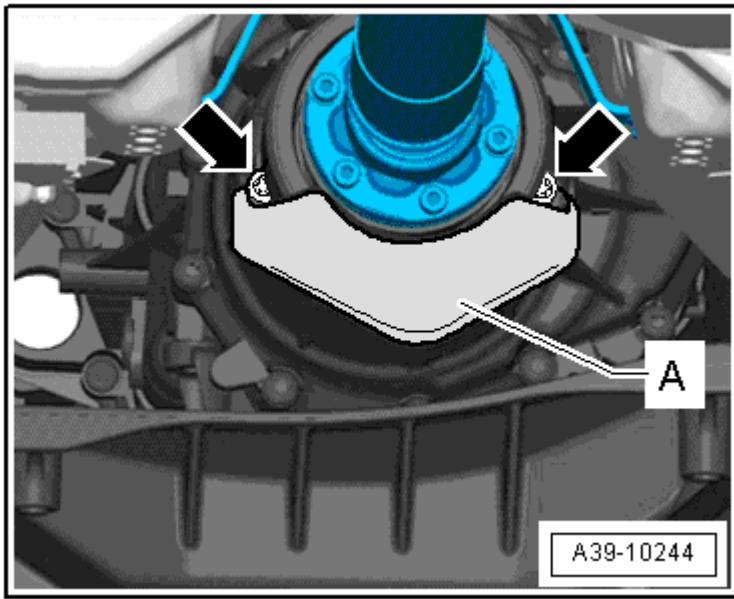


Fig. 14: Transmission Heat Shield

Courtesy of AUDI OF AMERICA, LLC

-- Remove the heat shield -A- from the transmission -arrows-, if equipped.

-- Check whether there is a marking (color marking) on driveshaft and at flange/driveshaft at rear final drive - arrow A- and -arrow B-.

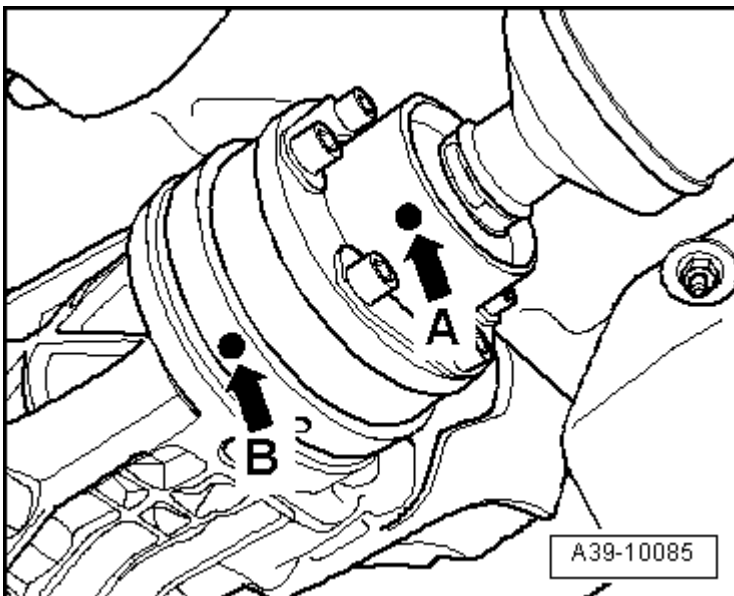


Fig. 15: Identifying Mark Position Of Driveshaft Flange To Rear Final Drive

Courtesy of AUDI OF AMERICA, LLC

-- If one of these markings is no longer visible (for example -arrow A- on the driveshaft), then make a new color marking.

- Die marking on the driveshaft -arrow A- and on the rear final drive -arrow B- must line up.

-- Attach the 3139 and tighten the plastic nuts.

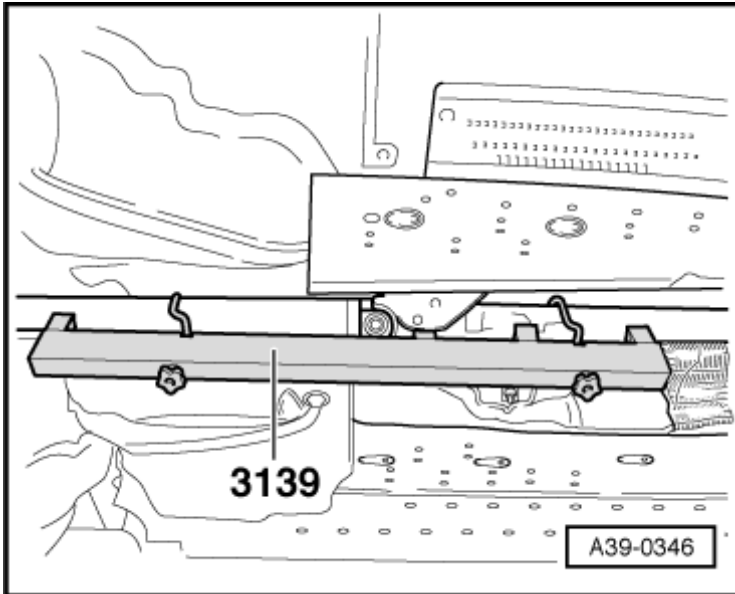


Fig. 16: Attaching Alignment Fixture - 4W Dr. Shaft 3139
Courtesy of AUDI OF AMERICA, LLC

NOTE: Never lay the assembly tool on the balance plates.

-- Remove the bolts -arrows- for intermediate bearing.

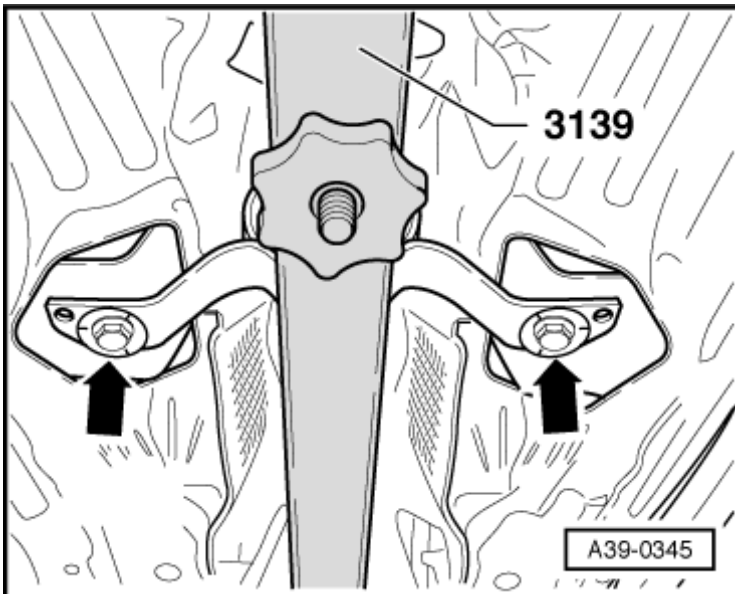


Fig. 17: Removing/Installing Securing Bolts For Center Bearing
Courtesy of AUDI OF AMERICA, LLC

-- Remove the bolts connecting the driveshaft to the transmission using the T10172 and T10172/5.

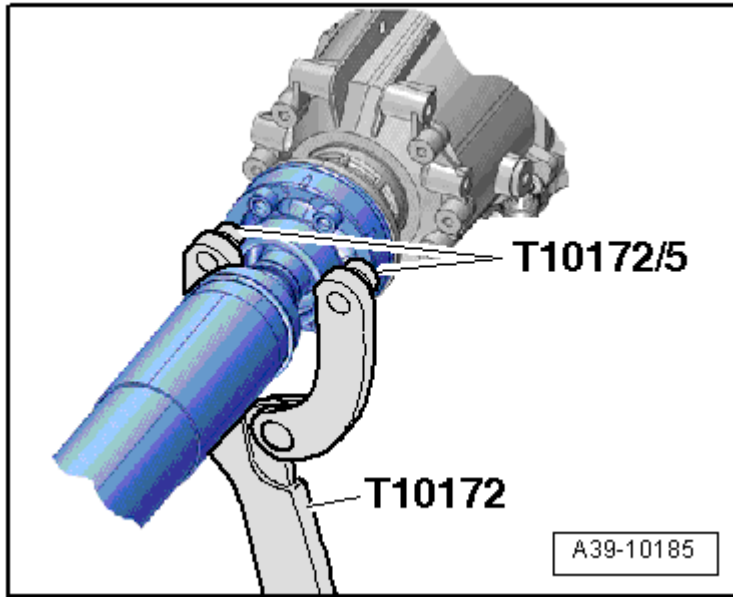


Fig. 18: Hold Driveshaft Using T10172
 Courtesy of AUDI OF AMERICA, LLC

-- Remove driveshaft from transmission and support it using V.A.G 1383 A.

-- Remove the bolts -1- (quantity: 6) from the rear CV joint.

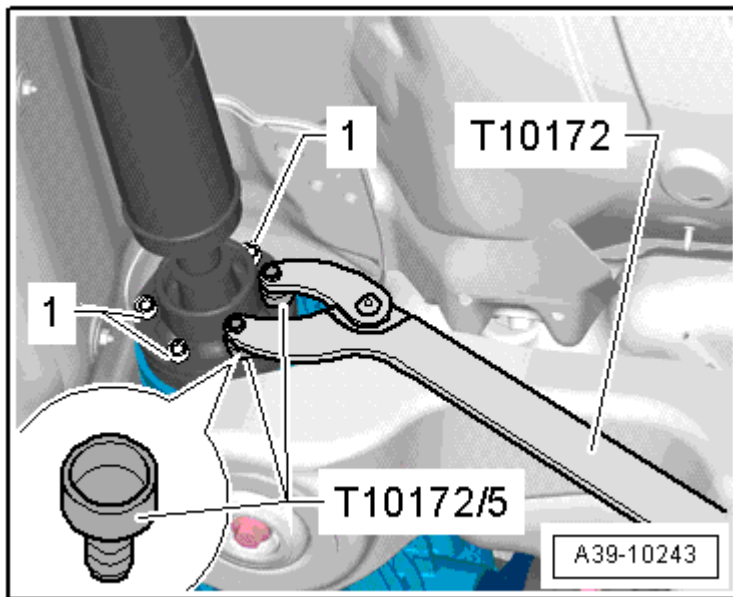


Fig. 19: Counter Hold Using Counterhold Tool Touareg V10 T10172 And Adapters T10172/5
 Courtesy of AUDI OF AMERICA, LLC

USE THE T10172 AND T10172/5

-- Remove driveshaft.

NOTE: Always store and transport a driveshaft fully extended only.

Installing

Install in reverse order of removal. Note the following:

- Remove any old or dried-up high temperature grease from the CV joints and the driveshaft flanges. Fill with the exact same amount of high temperature grease G 000 633.
- Clean any locking fluid still inside the threaded holes in the flange shafts for the transmission driveshaft and rear final drive. Use a thread cutter to clean the holes. Otherwise the bolts could break off when being installed.
- After disconnecting driveshaft from the rear final drive, an additional balance washer (thick washer) that may be located between shim and a bolt may not be reinstalled.
- Always replace (self-locking) securing bolts for driveshaft.
- Note installation position of driveshaft: Center CV joint is located behind the intermediate bearing in direction facing the rear final drive.
- Check the driveshaft seal on the rear final drive and on the transmission for damage (bent or the rubber has started to peel). Replace a damaged gasket.

-- Install the driveshaft. Pay attention to the installed position on the rear final drive:

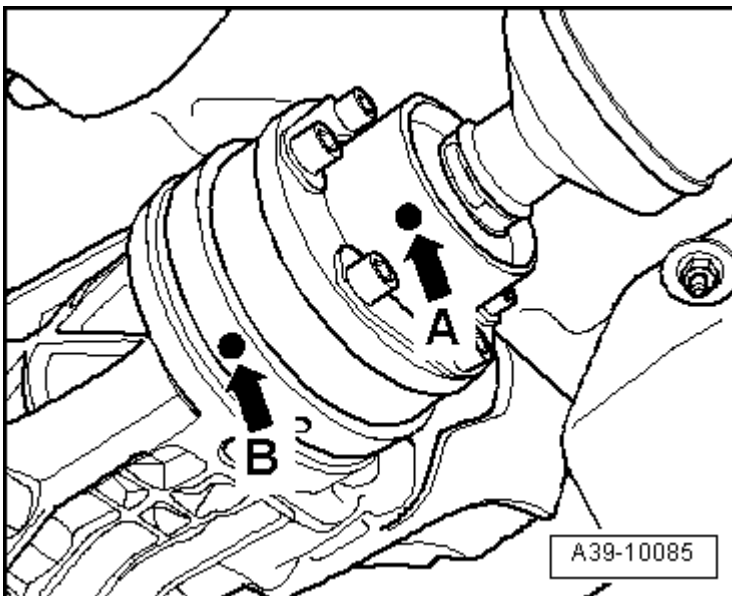


Fig. 20: Identifying Mark Position Of Driveshaft Flange To Rear Final Drive
Courtesy of AUDI OF AMERICA, LLC

- Die markings on the driveshaft -arrow A- and on the rear final drive -arrow B- must line up.
- Maximum difference between the markings: 30°.

-- Install the bolts all the way in by hand but do not tighten them.

-- Install the bolts -arrows- just far enough so that the intermediate bearing can still be moved.

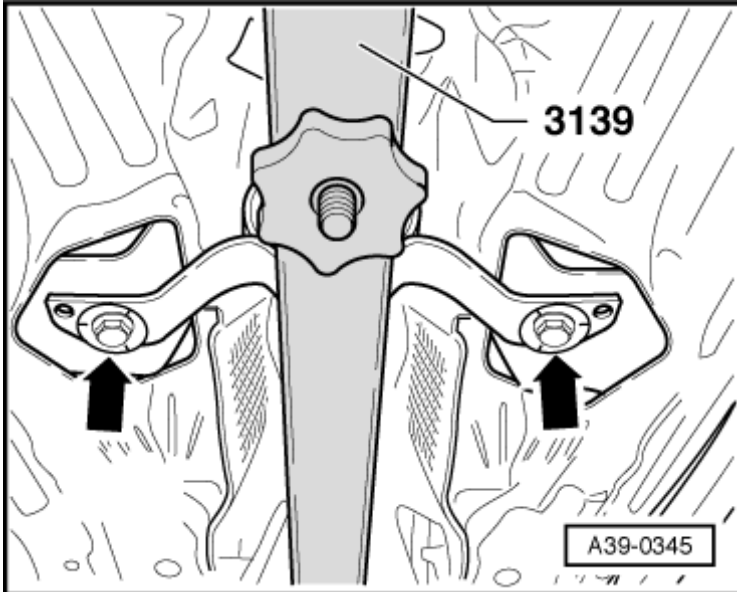


Fig. 21: Removing/Installing Securing Bolts For Center Bearing
Courtesy of AUDI OF AMERICA, LLC

-- Tighten the rear bolts -1- on the driveshaft. Follow the tightening sequence, refer to **Fig. 3**.

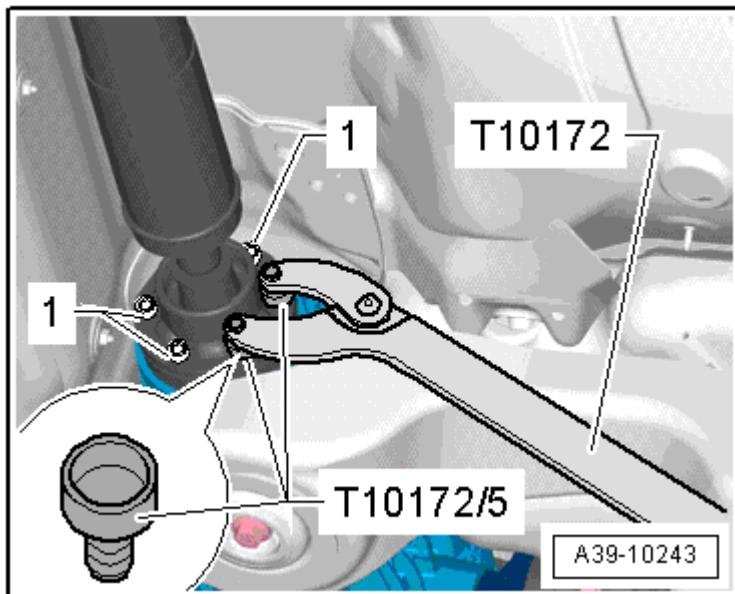


Fig. 22: Counter Hold Using Counterhold Tool Touareg V10 T10172 And Adapters T10172/5
Courtesy of AUDI OF AMERICA, LLC

-- Tighten the front bolts on the driveshaft. Tightening specification -item 5- **DRIVESHAFT BOLTED ON**

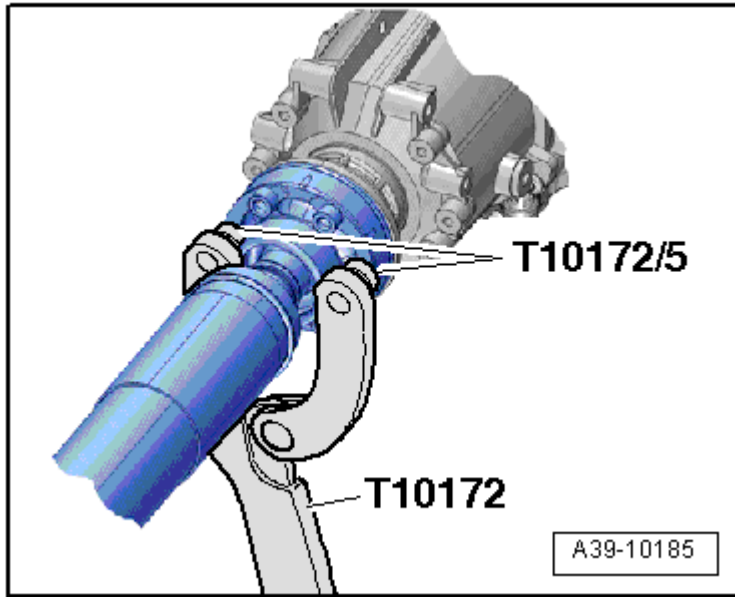
TRANSMISSION-SIDE OVERVIEW.

Fig. 23: Hold Driveshaft Using T10172
Courtesy of AUDI OF AMERICA, LLC

- Remove alignment fixture 3139.
- Attach the driveshaft center bearing to the body making sure it is free of tension. Tightening specification - item 8- **DRIVESHAFT BOLTED ON TRANSMISSION-SIDE OVERVIEW.**
- Attach the heat shield -A- (if equipped) to the transmission -arrows-. Tightening specification, refer to **Fig. 4.**

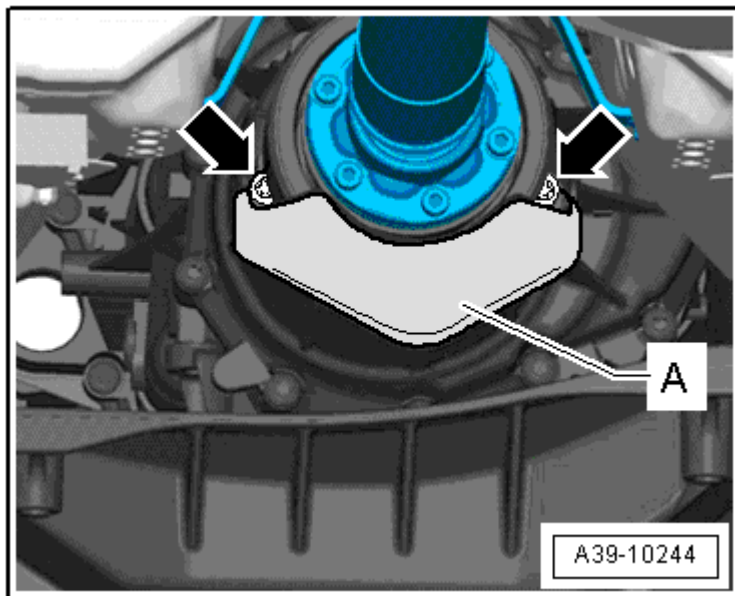


Fig. 24: Transmission Heat Shield

Courtesy of AUDI OF AMERICA, LLC

-- Install the heat shield -1-.

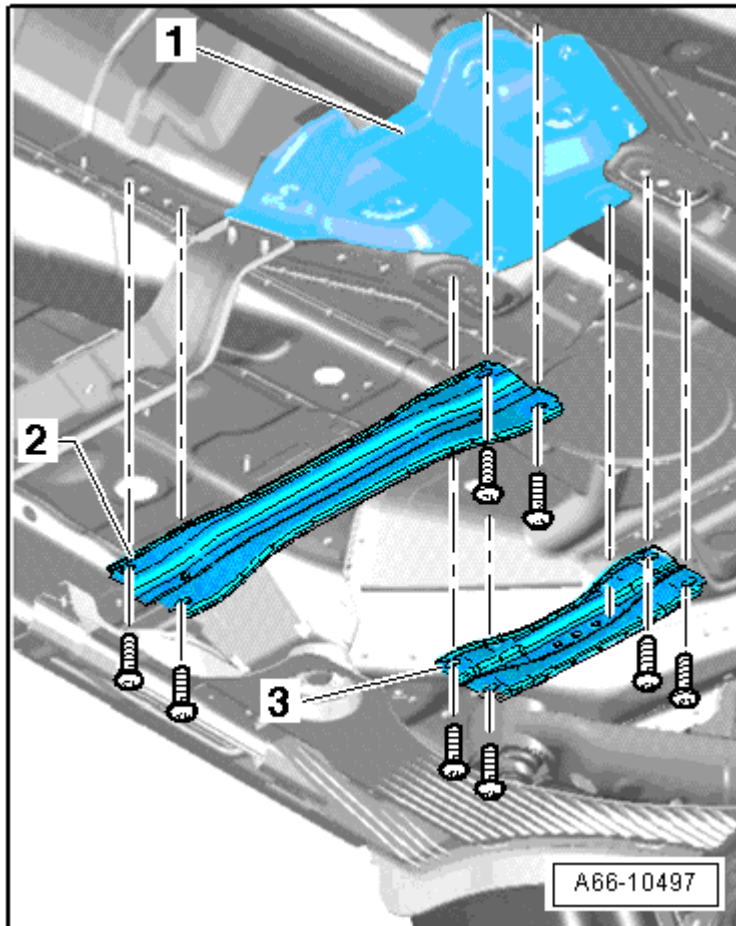


Fig. 25: Identifying Crossmember

Courtesy of AUDI OF AMERICA, LLC

-- Remove the front -2- and rear -3- crossmembers, if equipped. Refer to Description and Operation .

-- Install and adjust exhaust system free of stress. Refer to [For transmission(s) 0AW] [For engine(s) CALA] Description and Operation or to [For engine(s) CAEB] Description and Operation or to [For engine(s) CCBA] Description and Operation .

DRIVESHAFT, BOLTED ON TRANSMISSION SIDE

Special tools and workshop equipment required

- Counterhold Tool Touareg V10 T10172 and Adapters T10172/5
- High temperature grease G 000 633

Removing

- See note, refer to **DRIVESHAFT BOLTED ON TRANSMISSION-SIDE OVERVIEW**.
- Working on the driveshaft should only be performed with the vehicle on a two-column workshop hoist.

NOTE: Do not bend the decoupling element in the front exhaust pipe more than 10°, otherwise it will get damaged.

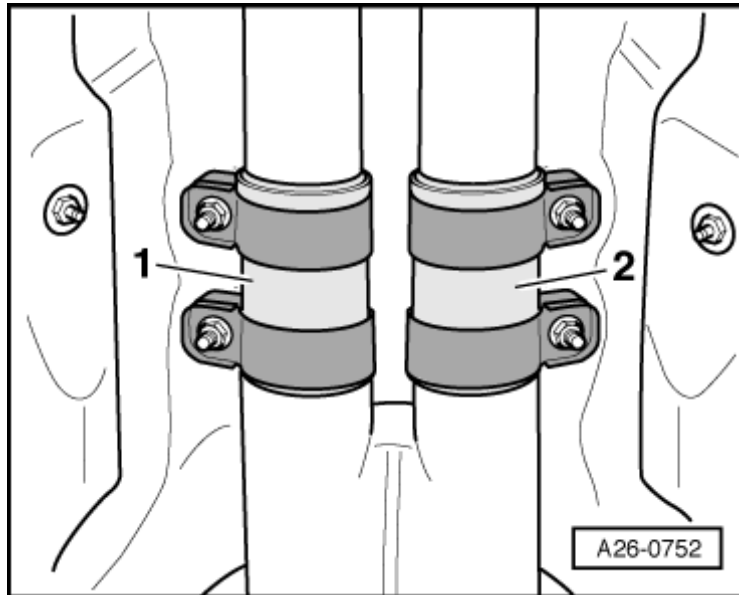


Fig. 26: Clamping Sleeves
Courtesy of AUDI OF AMERICA, LLC

- Loosen the clamping sleeves -1 and 2- and separate the exhaust system.
- Tie the front exhaust pipe(s) to the underbody.
- Remove the heat shield -A- from the transmission -arrows-, if equipped.

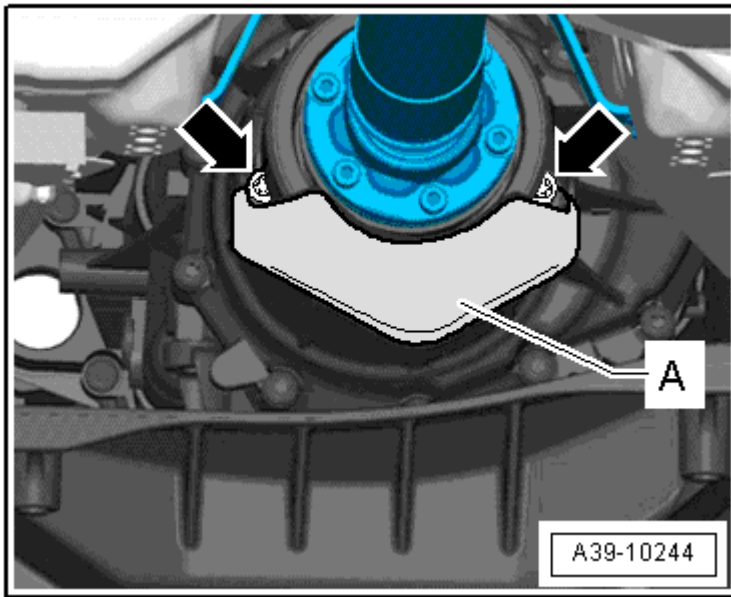


Fig. 27: Transmission Heat Shield

Courtesy of AUDI OF AMERICA, LLC

-- Remove the bolts connecting the driveshaft to the transmission using the T10172 and T10172/5.

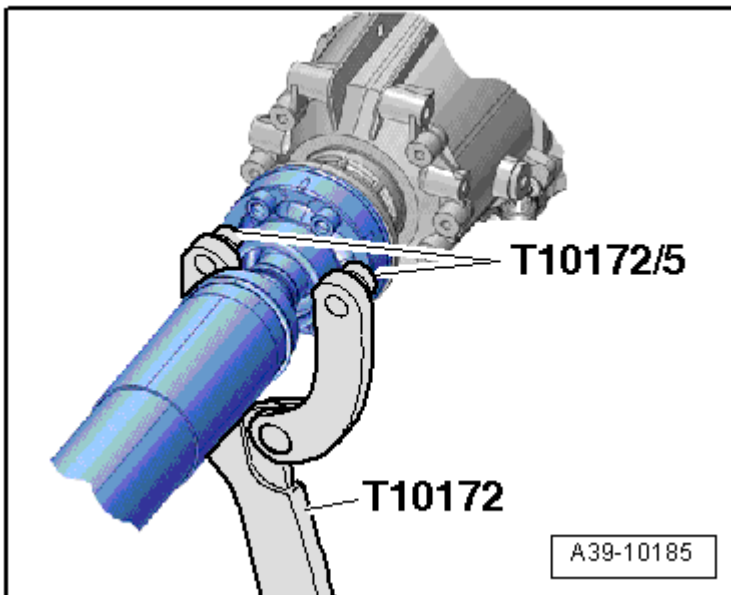


Fig. 28: Hold Driveshaft Using T10172

Courtesy of AUDI OF AMERICA, LLC

-- Tie the driveshaft to the underbody.

Installing

Install in reverse order of removal. Note the following:

- Remove any old or dried-up high temperature grease from the CV joint and the driveshaft flange. Fill with the exact same amount of high temperature grease G 000 633.
- Threaded holes in flange shaft on the transmission must be cleaned of locking compound residue. Use a thread cutter to clean the holes. Otherwise the bolts could break off when being installed.
- Always replace (self-locking) securing bolts for driveshaft.

-- Check the driveshaft seal on the transmission flange for damage and replace if necessary.

-- Install the driveshaft and install the new CV joint bolts.

-- Tighten the front bolts on the driveshaft. Tightening specification -item 5- **DRIVESHAFT BOLTED ON TRANSMISSION-SIDE OVERVIEW**.

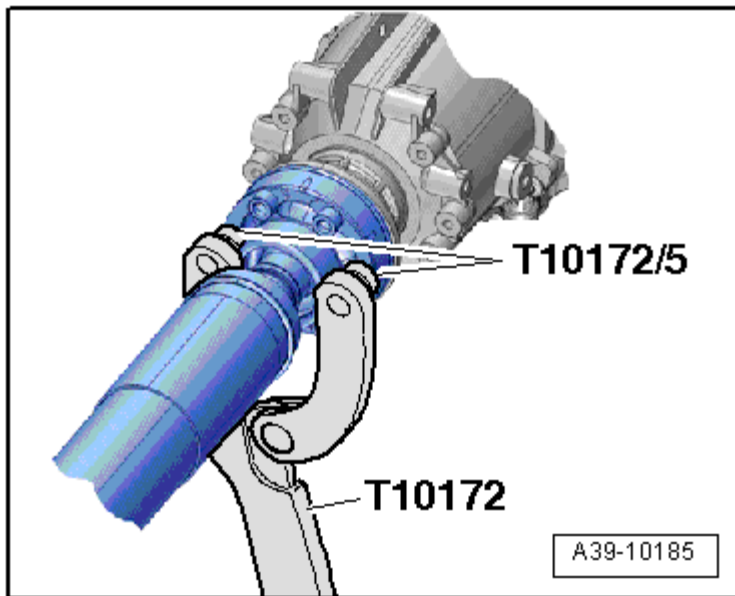


Fig. 29: Hold Driveshaft Using T10172
Courtesy of AUDI OF AMERICA, LLC

- Use the T10172 with the T10172/5.

-- Attach the heat shield -A- (if equipped) to the transmission -arrows-. Tightening specification, refer to **Fig. 4**.

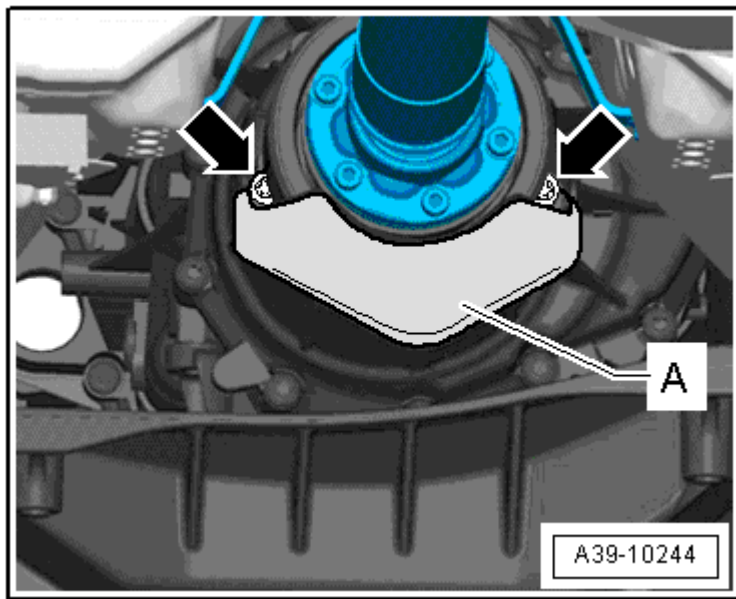


Fig. 30: Transmission Heat Shield

Courtesy of AUDI OF AMERICA, LLC

-- Assemble the exhaust system and then align it free of tension. Refer to [For transmission(s) 0AW] [For engine(s) CALA] Description and Operation or to [For engine(s) CAEB] Description and Operation or to [For engine(s) CCBA] Description and Operation .

DRIVESHAFT FROM REAR FINAL DRIVE

Special tools and workshop equipment required

- Counterhold Tool Touareg V10 T10172 and Adapters T10172/5
- High temperature grease G 000 633
- See note, refer to DRIVESHAFT BOLTED ON TRANSMISSION-SIDE OVERVIEW
- Working on the driveshaft should only be performed with the vehicle on a two-column shop hoist.

REMOVING

NOTE: Do not bend the decoupling element in the front exhaust pipe more than 10°, otherwise it will get damaged.

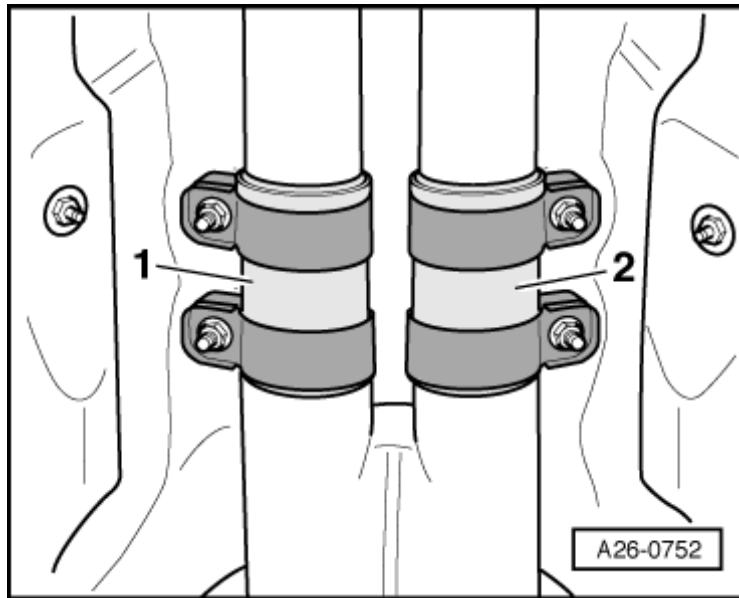


Fig. 31: Clamping Sleeves
Courtesy of AUDI OF AMERICA, LLC

-- Loosen the clamping sleeves -1 and 2- and separate the exhaust system.

-- Tie the front exhaust pipe(s) to the underbody.

NOTE: **A second technician will be needed to help remove the rear section of the exhaust system.**

-- Remove rear portion of exhaust system. Refer to [For transmission(s) 0AW] [For engine(s) CALA] Description and Operation or to [For engine(s) CAEB] Description and Operation or to [For engine(s) CCBA] Description and Operation .

-- Check whether there is a marking (color marking) on driveshaft and at flange/driveshaft at rear final drive - arrow A- and -arrow B-.

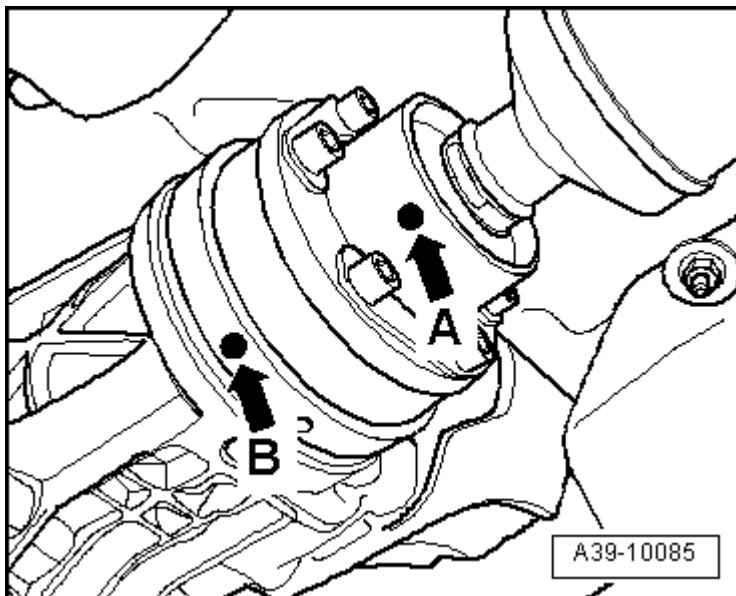


Fig. 32: Identifying Mark Position Of Driveshaft Flange To Rear Final Drive
 Courtesy of AUDI OF AMERICA, LLC

-- If one of these markings is no longer visible (for example -arrow A- on the driveshaft), then make a new color marking.

- Die marking on the driveshaft -arrow A- and on the rear final drive -arrow B- must line up.

-- Remove the bolts -1- (quantity: 6) from the rear CV joint.

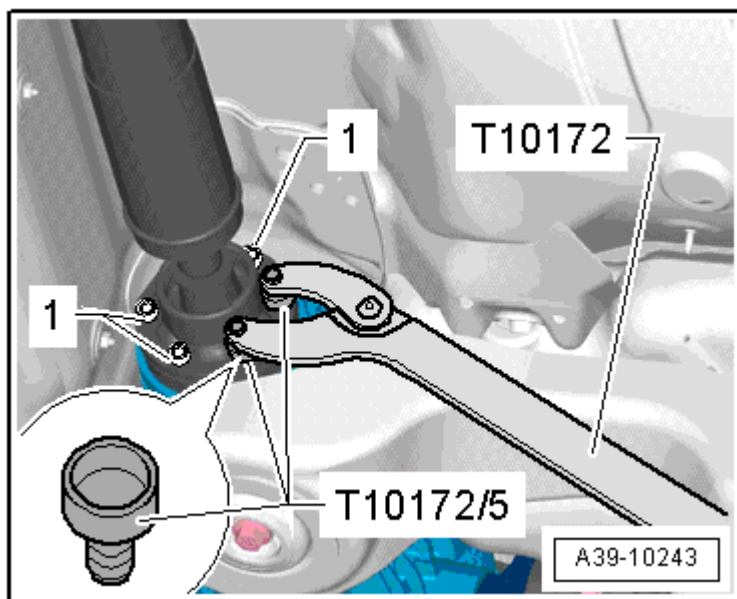


Fig. 33: Counter Hold Using Counterhold Tool Touareg V10 T10172 And Adapters T10172/5
 Courtesy of AUDI OF AMERICA, LLC

-- Use the T10172 with the T10172/5.

-- Remove the driveshaft from the rear final drive and lay it on the subframe.

INSTALLING

Install in reverse order of removal. Note the following:

- Remove any old or dried-up high temperature grease from the CV joint and the driveshaft flange. Fill with the exact same amount of high temperature grease G 000 633.
- Threaded holes in the flange shaft at the rear final drive must be cleaned of locking compound residue. Use a thread cutter to clean the holes. Otherwise the bolts could break off when being installed.
- After disconnecting driveshaft from rear final drive, an additional balance washer (thick washer) that may be located between the shim and a bolt may not be reinstalled.
- Always replace (self-locking) securing bolts for driveshaft.
- Check the driveshaft seal on the rear final drive for damage (bent or the rubber has started to peel). Replace a damaged gasket.

-- Position the driveshaft on the rear final drive paying attention to the installed position:

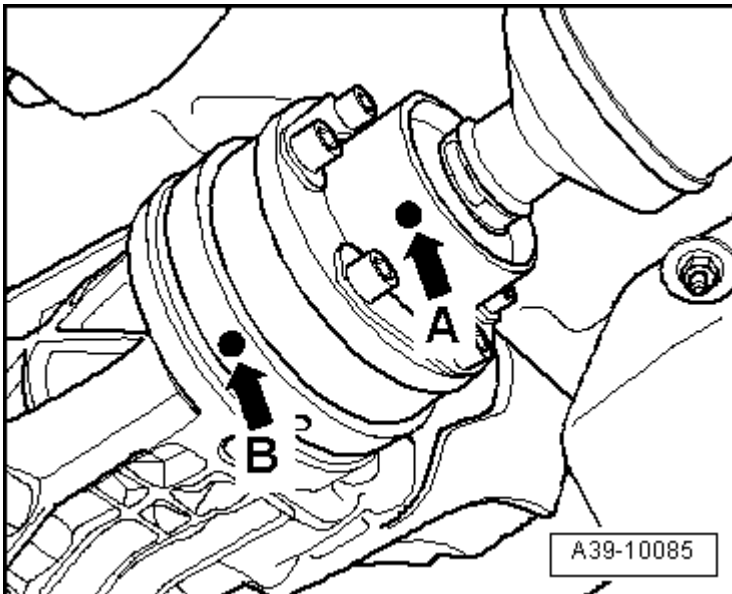


Fig. 34: Identifying Mark Position Of Driveshaft Flange To Rear Final Drive
Courtesy of AUDI OF AMERICA, LLC

- Die markings on the driveshaft -arrow A- and on the rear final drive -arrow B- must line up.
- Maximum difference between the markings: 30°.

-- Install and tighten the driveshaft bolts -1-. Follow the tightening sequence, refer to **Fig. 3**

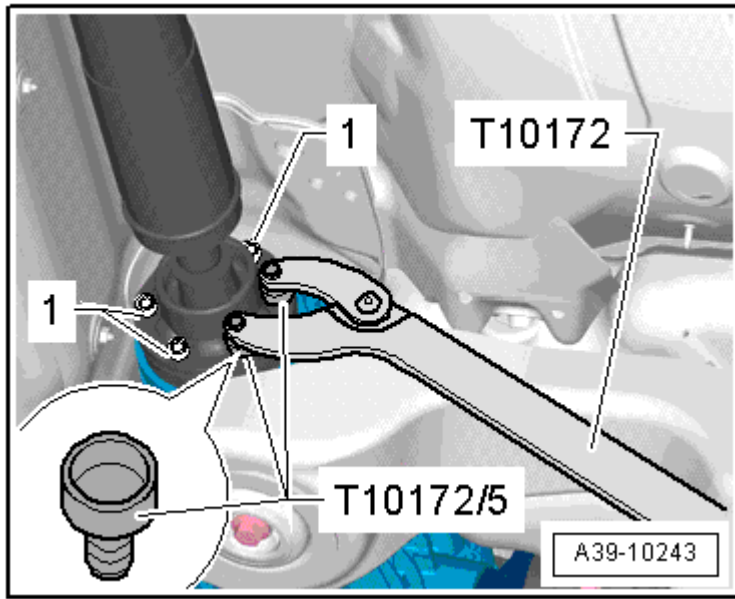


Fig. 35: Counter Hold Using Counterhold Tool Touareg V10 T10172 And Adapters T10172/5
 Courtesy of AUDI OF AMERICA, LLC

-- Install rear part of exhaust system. Refer to [For transmission(s) 0AW] [For engine(s) CALA] Description and Operation or to [For engine(s) CAEB] Description and Operation or to [For engine(s) CCBA] Description and Operation .

DRIVESHAFT ATTACHED ON TRANSMISSION SIDE

Special tools and workshop equipment required

- Transmission Support VW 785/1 B
- Counterhold Tool Touareg V10 T10172
- Adapter T10172/5
- Hose Clamp Pliers V.A.G 1275
- High temperature grease G 000 633

Removing

NOTE: The attached driveshaft can only be removed from the transmission if it is removed completely.

Working on the driveshaft should only be performed with the vehicle on a two-column shop hoist.

Tie up or support the end of the shaft after disconnecting it from the rear final drive.

The driveshaft can be bent at the center joint without using force. A hard

bending to the stop may cause damage to the center joint or dust boot.

Always hold the driveshaft horizontal when installing it or removing it from the transmission output shaft.

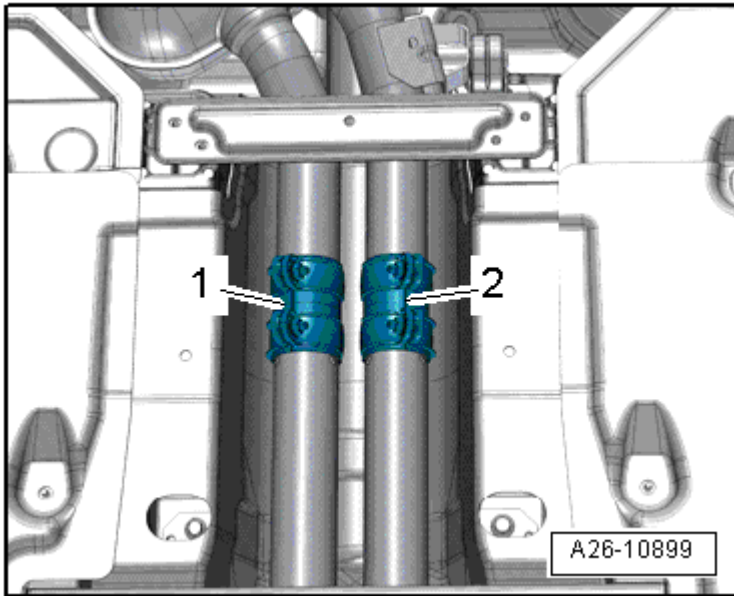


Fig. 36: Exhaust System Clamping Sleeves
Courtesy of AUDI OF AMERICA, LLC

CAUTION: Danger of causing damage to the decoupling element.

- Never bend the decoupling element more than 10°.
- Never load the decoupling element.
- Do not damage the wire mesh on the decoupling element.

- Loosen the clamping sleeves -1 and 2- and slide them to the rear.
- Attach the front muffler and/or left and right front exhaust pipe to the underbody.
- Remove the bolts -arrows- and remove the driveshaft heat shield -1-, if equipped.

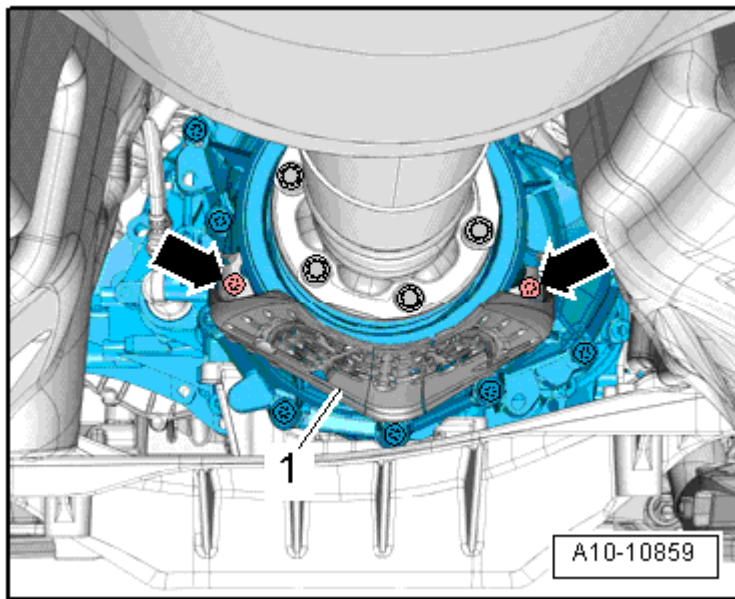


Fig. 37: Identifying Bolts -Arrows-
Courtesy of AUDI OF AMERICA, LLC

-- Cut the hose clamp -1- for the driveshaft boot and remove it.

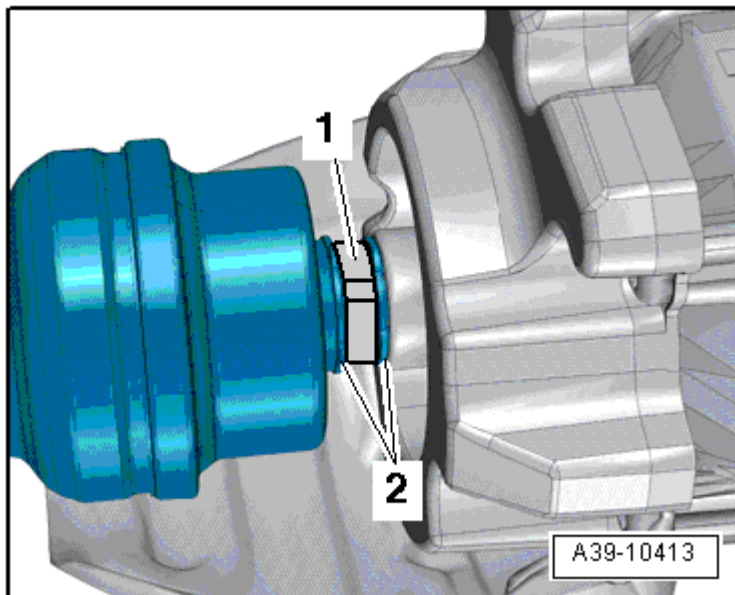


Fig. 38: Driveshaft Boot Hose Clamp
Courtesy of AUDI OF AMERICA, LLC

NOTE: Ignore -2-.

Audi A6 and Audi A7

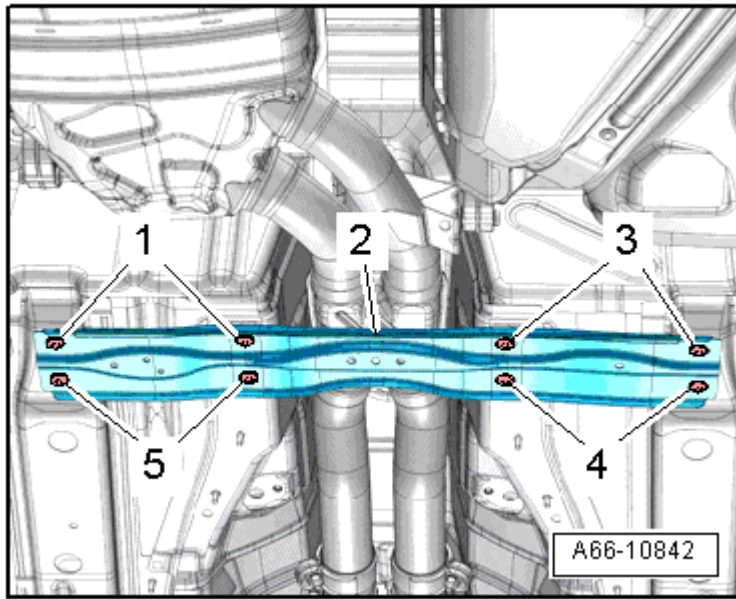


Fig. 39: Identifying Crossbrace

Courtesy of AUDI OF AMERICA, LLC

-- Remove the crossbrace -2-. Refer to "Heat Shields and Crossbraces" in **Removal and Installation** .

Audi A4, Audi A5 Coupe, Audi A5 Sportback, Audi A5 Cabriolet and Audi Q5

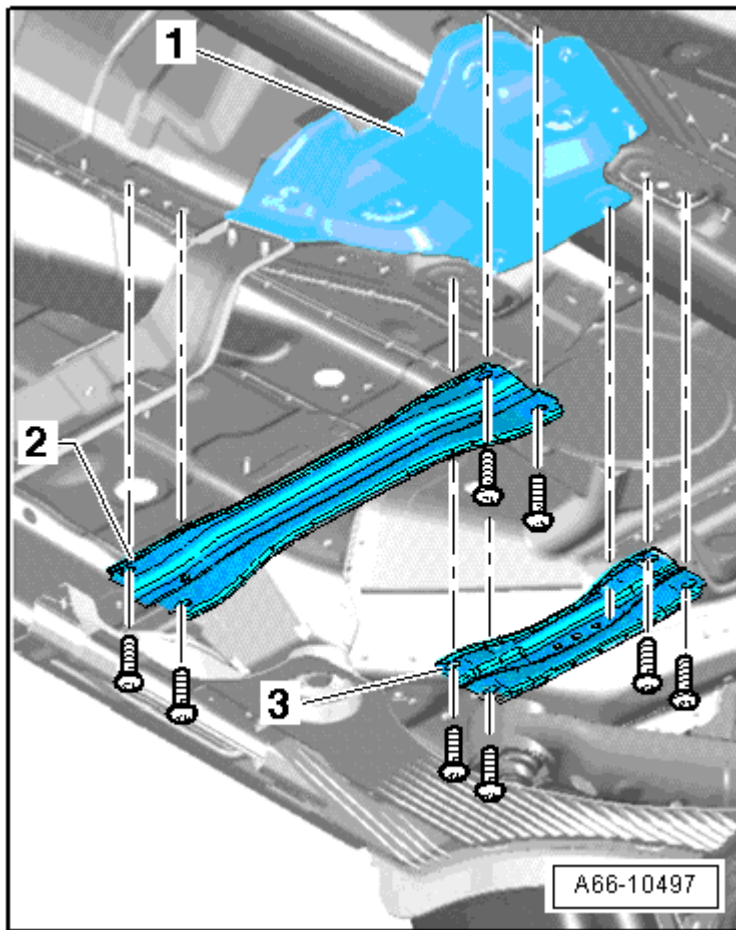


Fig. 40: Identifying Crossmember

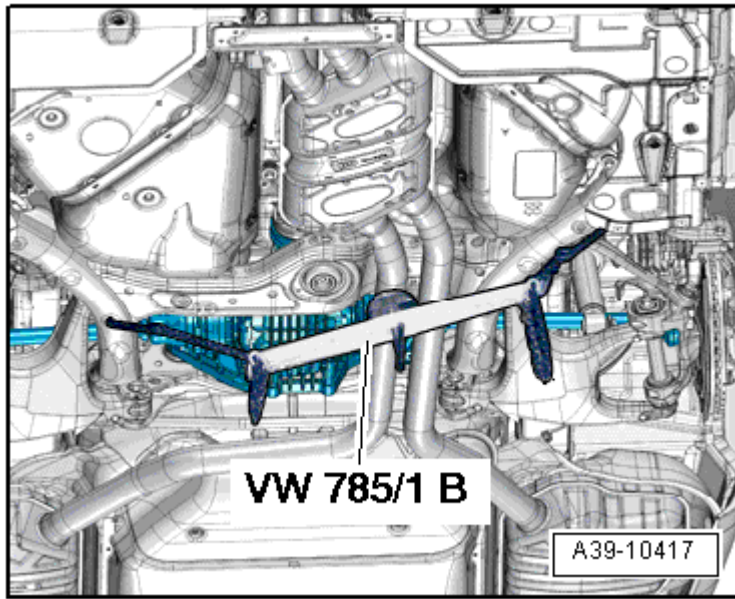
Courtesy of AUDI OF AMERICA, LLC

-- Remove the front crossmember -2- and the rear crossmember -3-. Refer to Description and Operation .

Continuation for All Vehicles

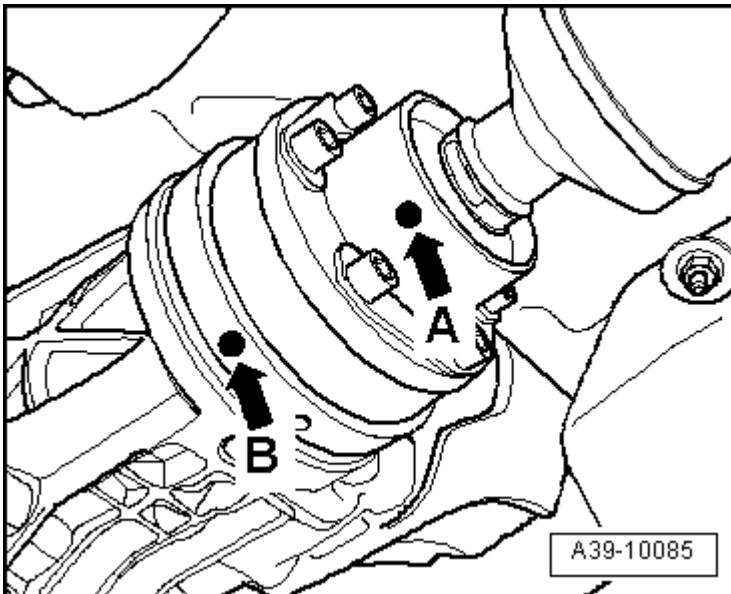
-- Remove the heat shield -1-.

-- Lower the exhaust system rear section near the front and secure it using the VW 785/1 B as illustrated.

**Fig. 41: VW 785/1 B**

Courtesy of AUDI OF AMERICA, LLC

-- Check whether there is a marking (color marking) on the driveshaft and at flange/driveshaft at rear final drive -arrow A- and -arrow B-.

**Fig. 42: Identifying Mark Position Of Driveshaft Flange To Rear Final Drive**

Courtesy of AUDI OF AMERICA, LLC

-- If one of these markings is no longer visible, then make a new color marking.

- Die markings on the driveshaft -arrow A- and on the rear final drive -arrow B- must line up.

-- Remove the driveshaft bolts -1- on the rear final drive.

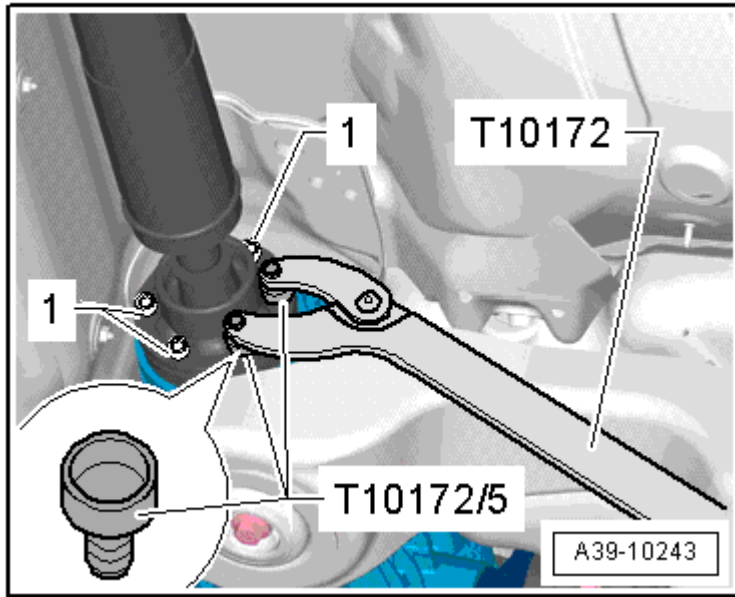


Fig. 43: Counter Hold Using Counterhold Tool Touareg V10 T10172 And Adapters T10172/5
Courtesy of AUDI OF AMERICA, LLC

-- Counter hold using the T10172 and T10172/5.

-- Remove the bolts -arrows- from the driveshaft intermediate bearing.

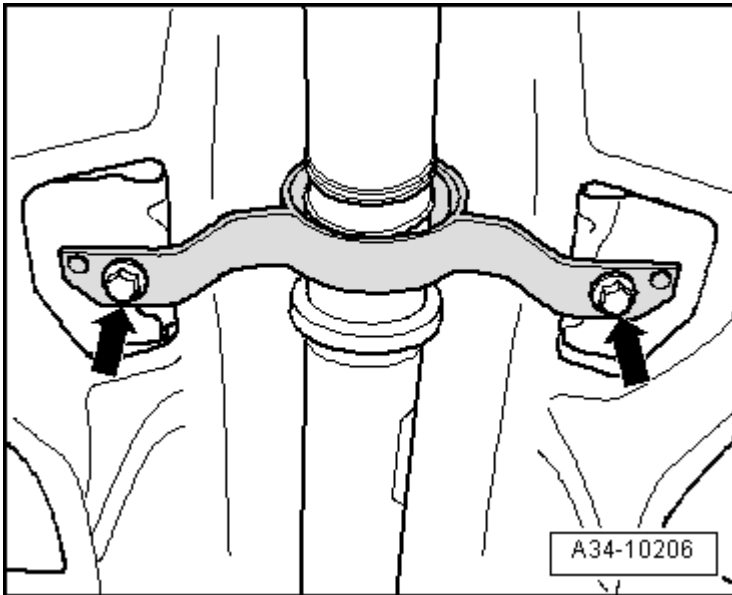


Fig. 44: Removing Mounting Bolts
Courtesy of AUDI OF AMERICA, LLC

-- Lower the rear driveshaft at the fuel tank and at the subframe and remove it from the transmission.

Installing

- Tightening specifications, refer to **DRIVESHAFT MOUNTED ON TRANSMISSION-SIDE OVERVIEW** and **Fig. 7**.

NOTE: Remove old and dry high-temperature grease from CV joint and flange for driveshaft. Fill with the exact same amount of high temperature grease G 000 633.

Threaded holes in the flange shaft at the rear final drive must be cleaned of locking compound residue. Use a thread cutter to clean the holes. Otherwise the bolts could break off when being installed.

Replace the self-locking bolts.

Replace the clamp -1- for the driveshaft rubber boot -2-.

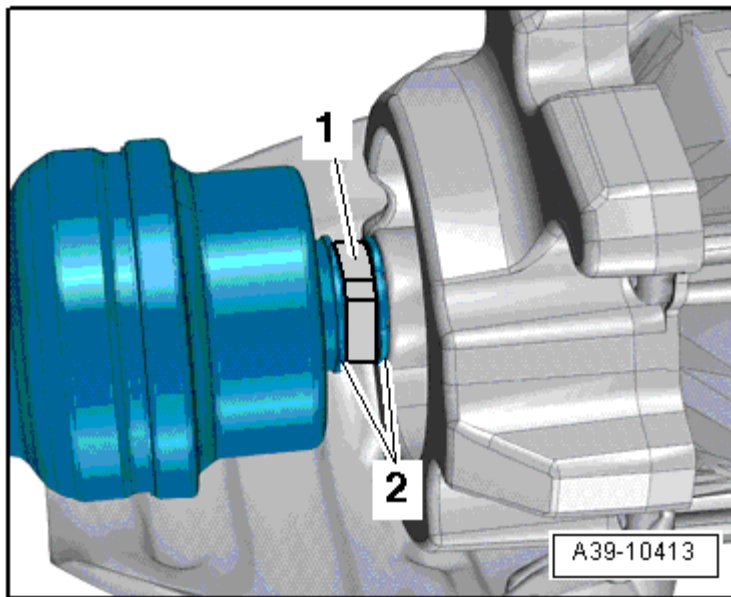


Fig. 45: Driveshaft Boot Hose Clamp
Courtesy of AUDI OF AMERICA, LLC

Check the driveshaft seal on the rear final drive for damage (bent or the rubber has started to peel) Replace a damaged gasket.

Wipe off the splines on the transmission output shaft with a towel before attaching it to the driveshaft. Do not grease the splines.

-- First attach the driveshaft to the transmission.

- Maximum bend angle: 10°.

- After installing the driveshaft approximately 50 mm onto the transmission output shaft, turn the driveshaft slightly to make sure the splines on the transmission output shaft mesh with the splines on the driveshaft.
- Push the driveshaft all the way onto the splines on the transmission output shaft.

-- Install the bolts -arrows- just far enough so that the intermediate bearing can still be moved.

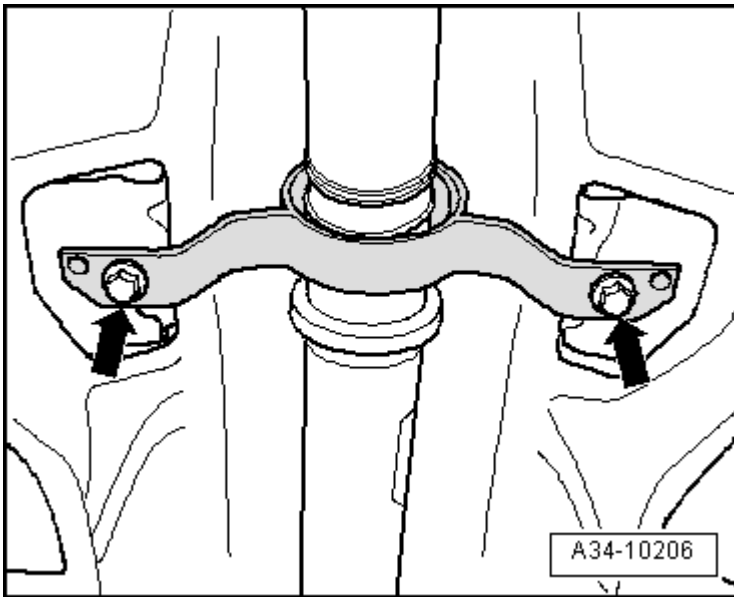


Fig. 46: Removing Mounting Bolts

Courtesy of AUDI OF AMERICA, LLC

-- Position the driveshaft on the rear final drive paying attention to the installed position:

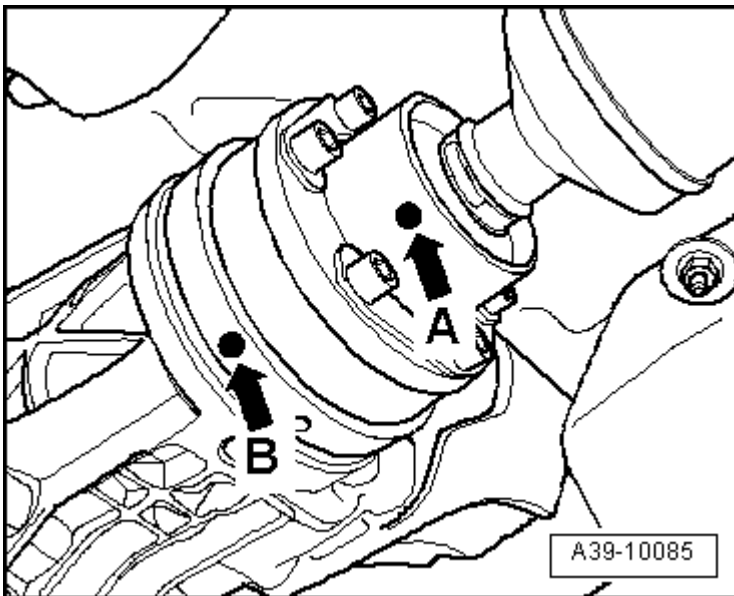


Fig. 47: Identifying Mark Position Of Driveshaft Flange To Rear Final Drive

Courtesy of AUDI OF AMERICA, LLC

- Die markings on the driveshaft -arrow A- and on the rear final drive -arrow B- must line up.
- Maximum difference between the markings: 30°.

-- Install the bolts all the way in by hand but do not tighten them.

-- Align the clamp -1- for the driveshaft boot with the mounting points -2- and then tighten it using V.A.G 1275.

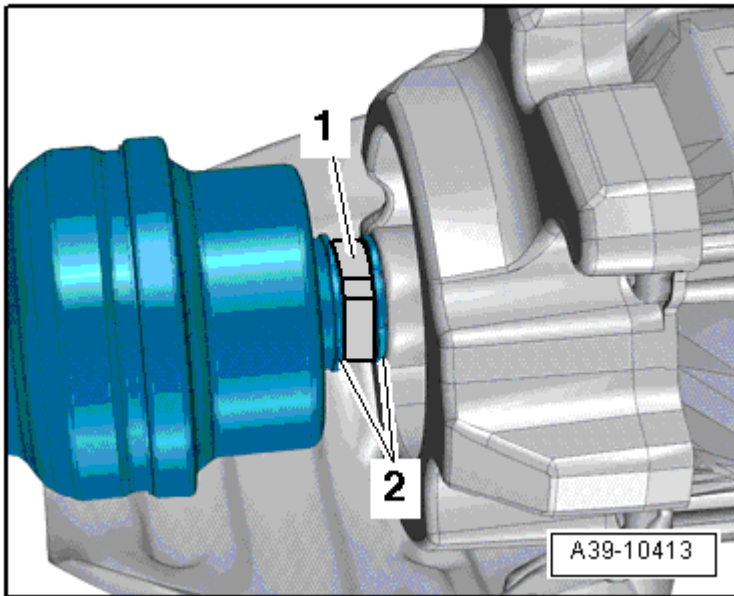


Fig. 48: Driveshaft Boot Hose Clamp
Courtesy of AUDI OF AMERICA, LLC

NOTE: Pushing the driveshaft back just a little makes it easier to install the V.A.G 1275 correctly.

-- Tighten the driveshaft bolts -1-. Follow the tightening sequence, refer to **Fig. 6**.

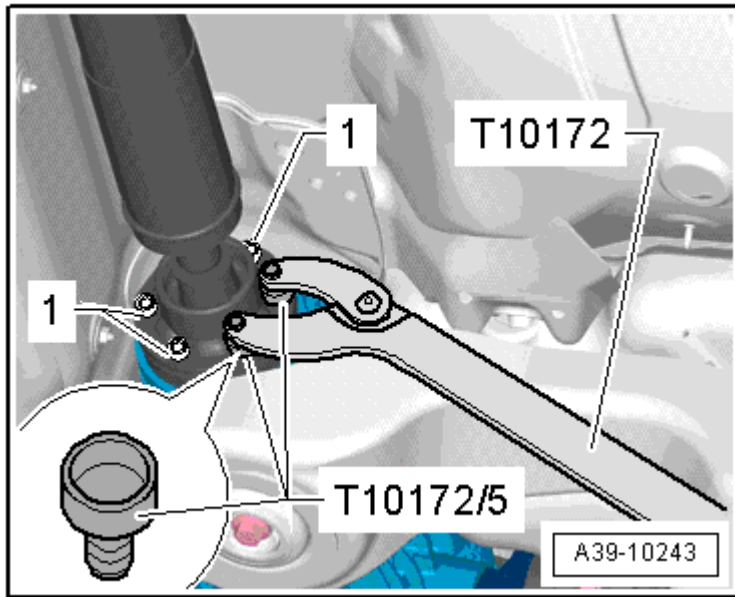


Fig. 49: Counter Hold Using Counterhold Tool Touareg V10 T10172 And Adapters T10172/5
 Courtesy of AUDI OF AMERICA, LLC

-- Attach the driveshaft intermediate bearing to the body making sure it is free of tension. Tightening specification -item 9- **DRIVESHAFT BOLTED ON TRANSMISSION-SIDE OVERVIEW.**

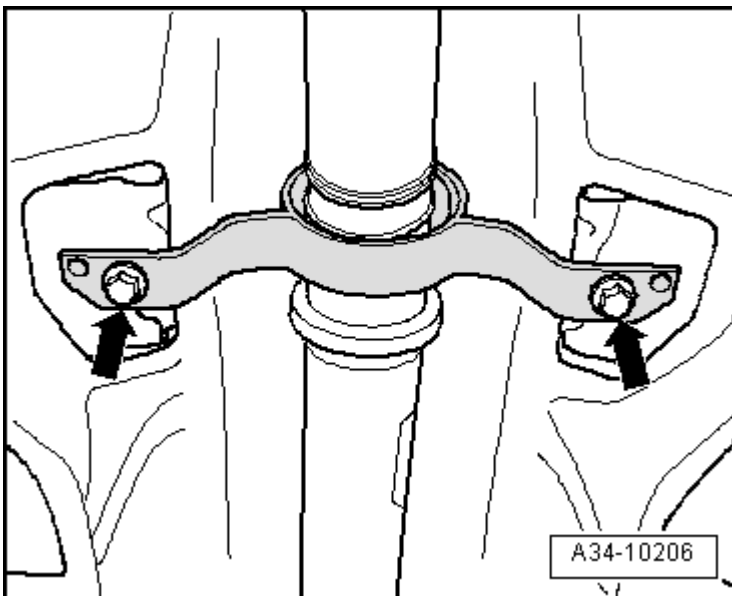


Fig. 50: Removing Mounting Bolts
 Courtesy of AUDI OF AMERICA, LLC

Install in reverse order of removal. Be sure to note the following:

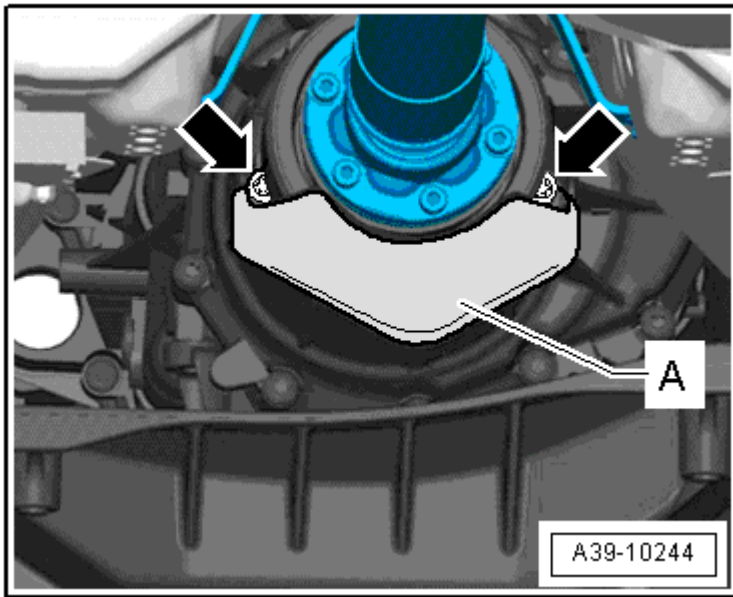


Fig. 51: Transmission Heat Shield

Courtesy of AUDI OF AMERICA, LLC

- Attach the heat shield -A- (if equipped) to the transmission -arrows-. Tightening specification, refer to **Fig. 7**.
- Install the heat shield -1-. Refer to **Description and Operation** .

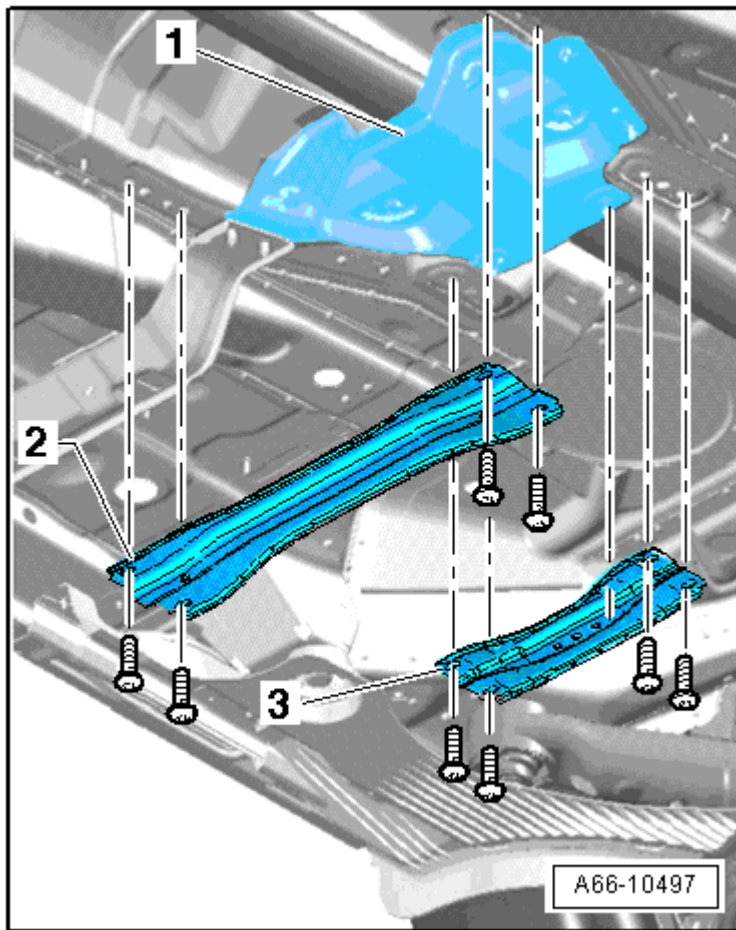


Fig. 52: Identifying Crossmember

Courtesy of AUDI OF AMERICA, LLC

-- Remove the front -2- and rear -3- crossmembers, if equipped. Refer to [Description and Operation](#) .

-- Install the exhaust system and adjust it so that it is free of tension. Refer to [\[For transmission\(s\) 0AW\] \[For engine\(s\) CALA\] Description and Operation](#) or to [\[For engine\(s\) CAEB\] Description and Operation](#) or to [\[For engine\(s\) CCBA\] Description and Operation](#) .

REAR FINAL DRIVE

Special tools and workshop equipment required

- Engine-/Gearbox Jack V.A.G 1383 A with Universal Transmission Support V.A.G 1359/2
- Tensioning Strap T10038
- Wheel Hub Support T10149
- Counterhold tool Touareg V10 T10172 and adapters T10172/5
- Socket XZN 12T40154

Removing

Observe general repair notes, refer to **REPAIR INFORMATION** .

-- Place the vehicle on a hoist.

-- Remove the hub cap from the left rear wheel. On a light alloy wheels, remove cover cap (removal hook in vehicle tool kit).

-- Remove the left rear wheel.

Vehicles with a 6- or 8-cylinder engine (except Audi Q5)

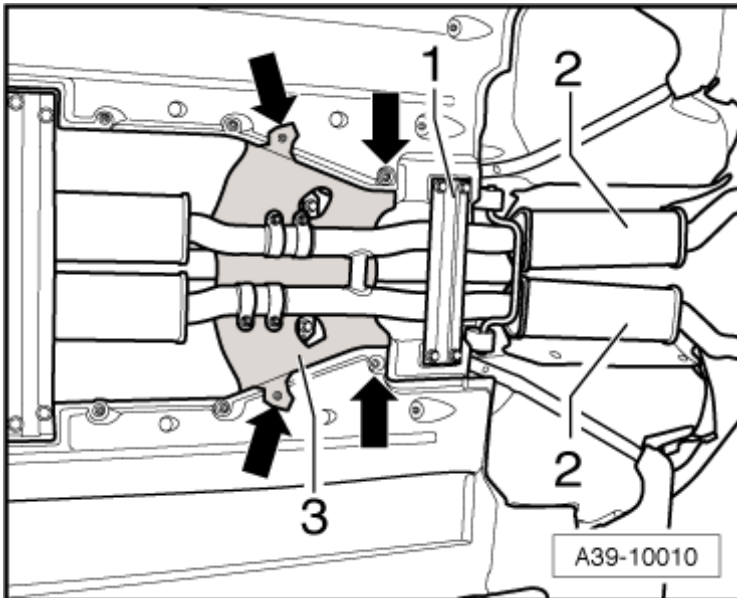


Fig. 53: Removing Rear Transverse Beam & Heat Shield From Vehicle Floor
Courtesy of AUDI OF AMERICA, LLC

-- Remove the rear crossmember -1-.

-- Install rear section of the exhaust system -2-. Refer to **[For transmission(s) 0AW] [For engine(s) CALA] Description and Operation** or to **[For engine(s) CAEB] Description and Operation** or to **[For engine(s) CCBA] Description and Operation** .

NOTE: A second technician will be needed to help remove the rear section of the exhaust system.

-- Attach the rear crossmember -1- to the body.

Continuation for All Vehicles

-- Remove the heat shield -3- from the body -arrows-.

-- Remove the driveshaft from the rear final drive. Refer to **DRIVESHAFT FROM REAR FINAL DRIVE**.

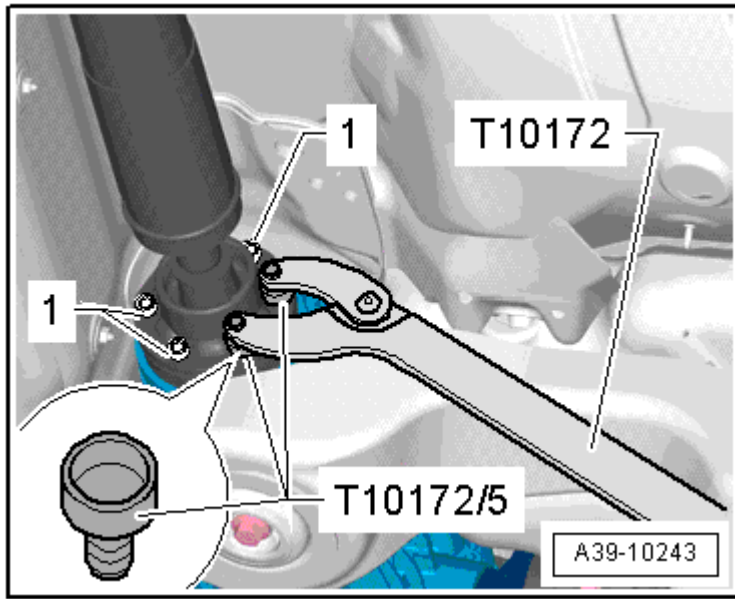


Fig. 54: Counter Hold Using Counterhold Tool Touareg V10 T10172 And Adapters T10172/5
 Courtesy of AUDI OF AMERICA, LLC

-- Place a block of wood -A- (approximately 40 mm tall) on the rear crossmember -C- and secure the driveshaft -B-.

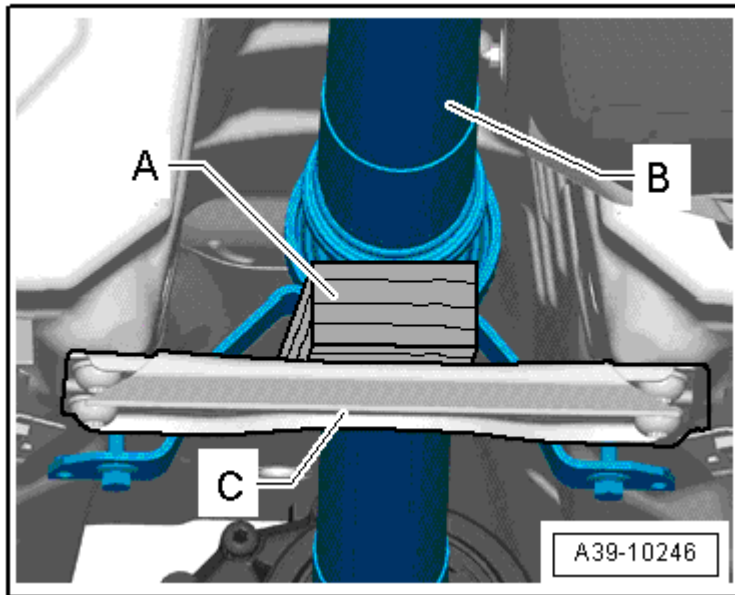


Fig. 55: Identifying Wood On Rear Crossmember
 Courtesy of AUDI OF AMERICA, LLC

NOTE: The heat shield under the intermediate bearing supports the driveshaft -B- on the Audi Q5.

The driveshaft can be bent at the center joint without using force. A hard bending to the stop may cause damage to the center joint or dust boot.

-- Remove the bolts from the driveshaft intermediate bearing -arrows-.

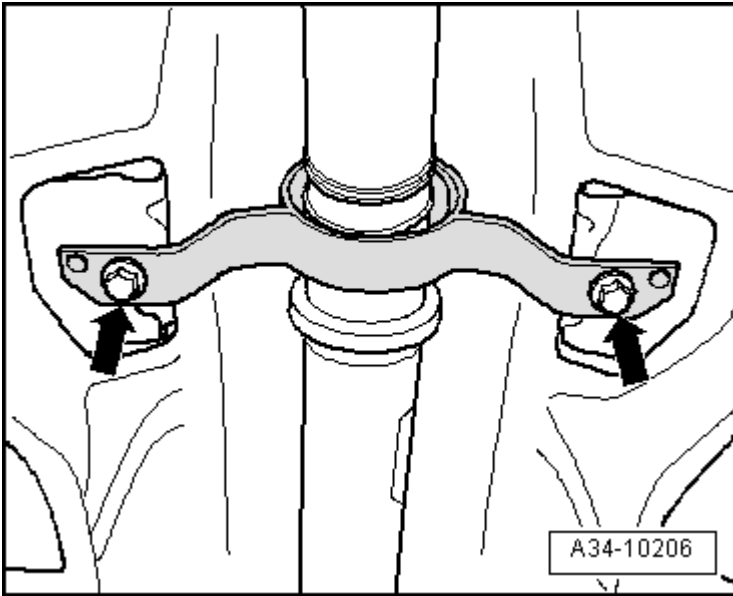


Fig. 56: Removing Mounting Bolts

Courtesy of AUDI OF AMERICA, LLC

-- Push the driveshaft forward while pulling off the rear final drive.

-- Tie the driveshaft to the side of the subframe.

-- Remove the left driveshaft heat shield -A- from the crossmember/rear final drive -arrows-.

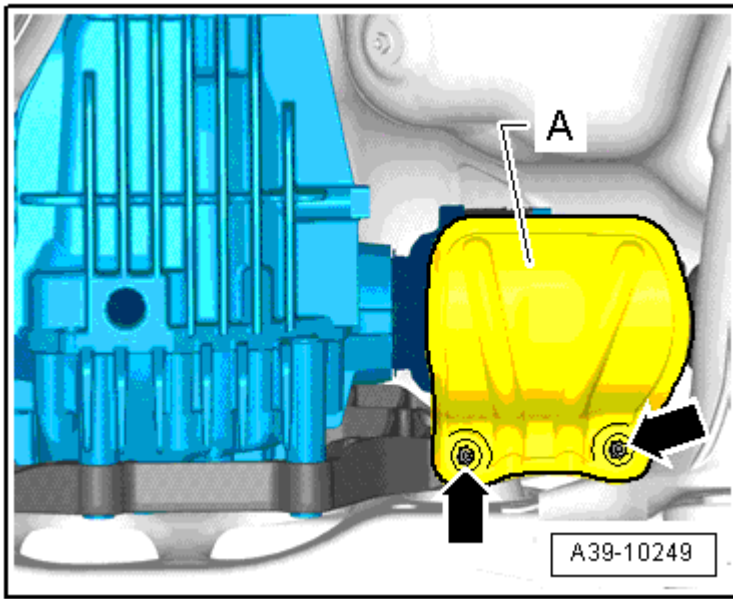


Fig. 57: Removing Left Driveshaft Head Shield
Courtesy of AUDI OF AMERICA, LLC

-- Remove the left -1- and right -3- driveshafts.

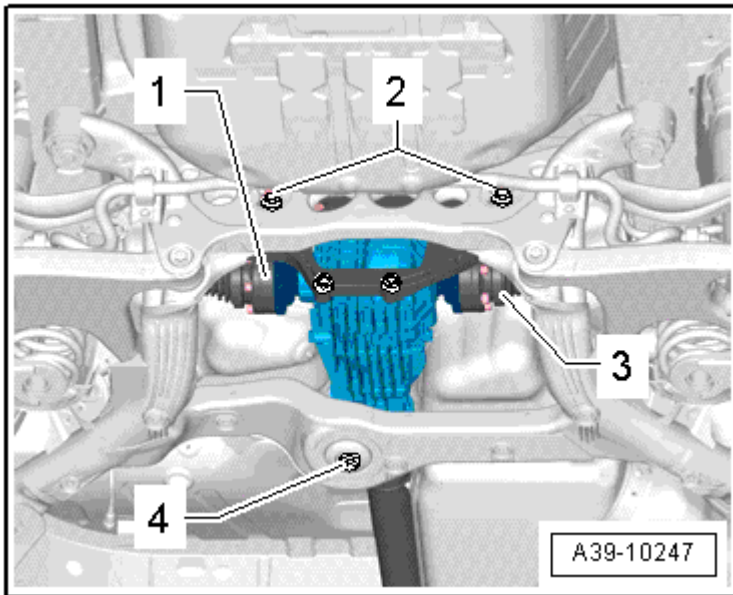


Fig. 58: Removing Left And Right Driveshaft
Courtesy of AUDI OF AMERICA, LLC

-- Loosen the bolts -2- approximately 3 turns.

-- Remove the bolt -4-.

-- Place the V.A.G 1383 A with the V.A.G 1359/2 and a block of wood -A- (approximately 80 mm tall) under

the rear final drive.

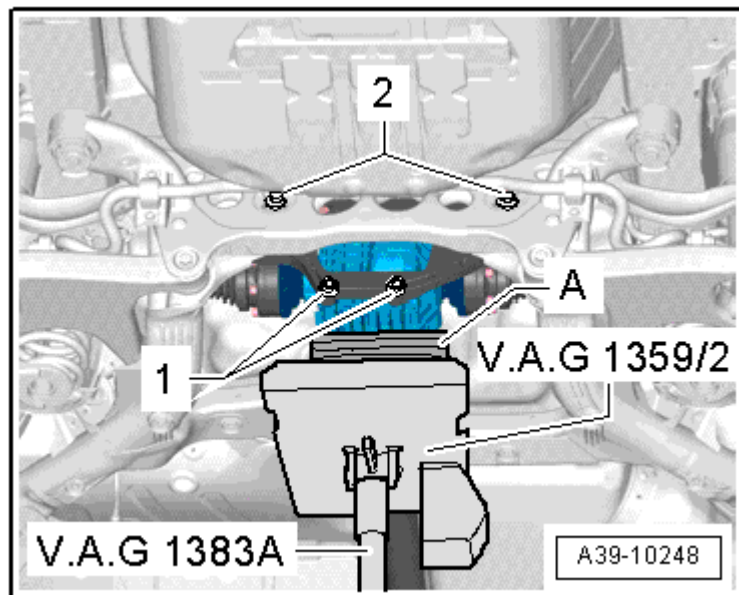


Fig. 59: Place V.A.G 1383 A With V.A.G 1359/2 And A Block Of Wood
Courtesy of AUDI OF AMERICA, LLC

NOTE: Make sure the V.A.G 1359/2 is not touching the fuel tank.

-- Remove the bolts -1- (lower crossmember bolt to the rear final drive) and -2-.

-- Remove the two upper crossmember bolts -B- to the rear final drive.

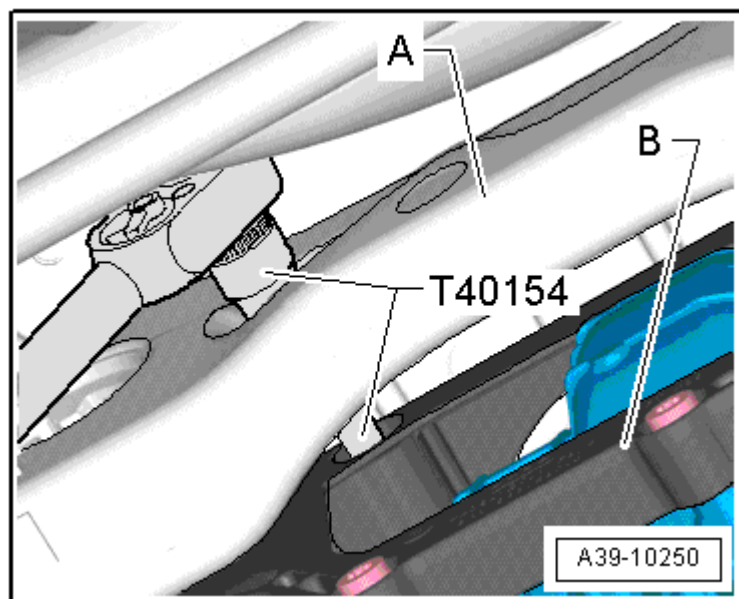


Fig. 60: Removing Two Upper Crossmember Bolts To Rear Final Drive

Courtesy of AUDI OF AMERICA, LLC

-- Guide the T40154 through the holes in the subframe -A-. Move the final drive to the left or to the right if necessary.

-- Push the final drive -A- slightly to the front.

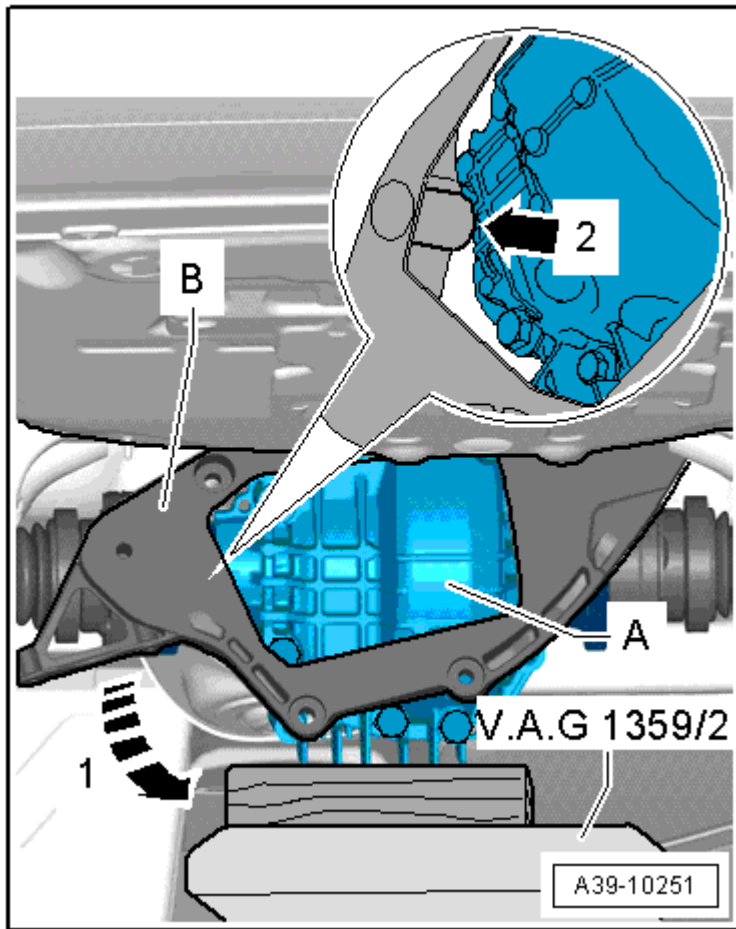


Fig. 61: Placing V.A.G 1383 A With V.A.G 1359/2 And A Block Of Wood
Courtesy of AUDI OF AMERICA, LLC

-- Turn the crossmember -B- to the left in direction of -arrow 1- while guiding it past the final drive -arrow 2- and remove it.

NOTE: A second technician will be needed to continue removing the rear final drive.

Secure the vehicle to the support arm on the vehicle with a T10038 before lifting the left rear suspension.

-- Remove the V.A.G 1383 A from under the final drive. A second technician must secure the rear final drive from falling out while doing this.

-- Place the T10149 in the V.A.G 1383 A.

-- Attach the T10149 to the suspension left rear wheel hub using a wheel bolt -arrow A-.

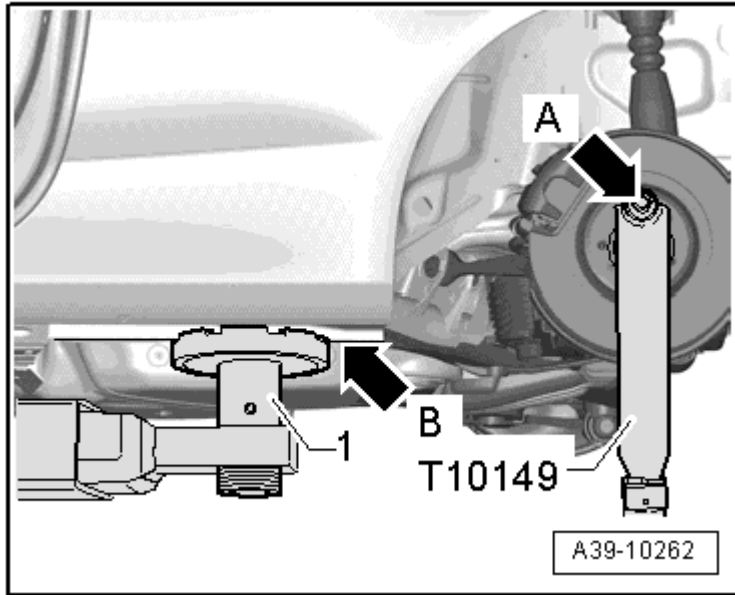


Fig. 62: Attach T10149 To Suspension Left Rear Wheel Hub Using A Wheel Bolt
Courtesy of AUDI OF AMERICA, LLC

-- Lift the left rear suspension using the V.A.G 1383 A just far enough until the support arm -1- on the vehicle hoist starts to lift the vehicle -arrow B-.

WARNING:

- Do not lift or lower vehicle when the V.A.G 1383 A stands below the vehicle.
- Do not leave V.A.G 1383 A below the vehicle any longer than necessary.

-- A second technician must lift the rear final drive -1- in direction of -arrow- toward the left side of the vehicle.

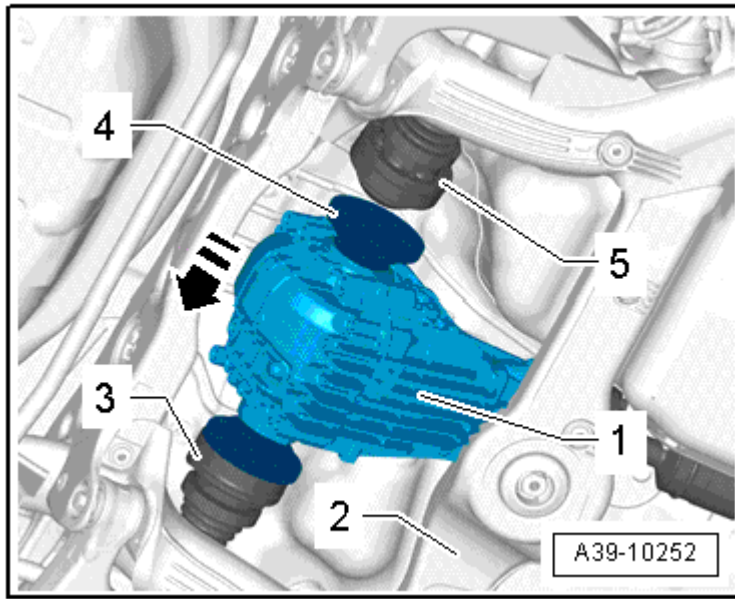


Fig. 63: Mount Rear Final Drive On Subframe
Courtesy of AUDI OF AMERICA, LLC

-- Guide the right drive axle -5- upward and out of the final drive flange shaft -4-.

-- Guide the left drive axle -3- and, with a second technician, remove the final drive from the subframe -2- toward the rear.

Installing

Install in reverse order of removal. Note the following:

-- With a second technician, mount the rear final drive -1- on the subframe -2-.

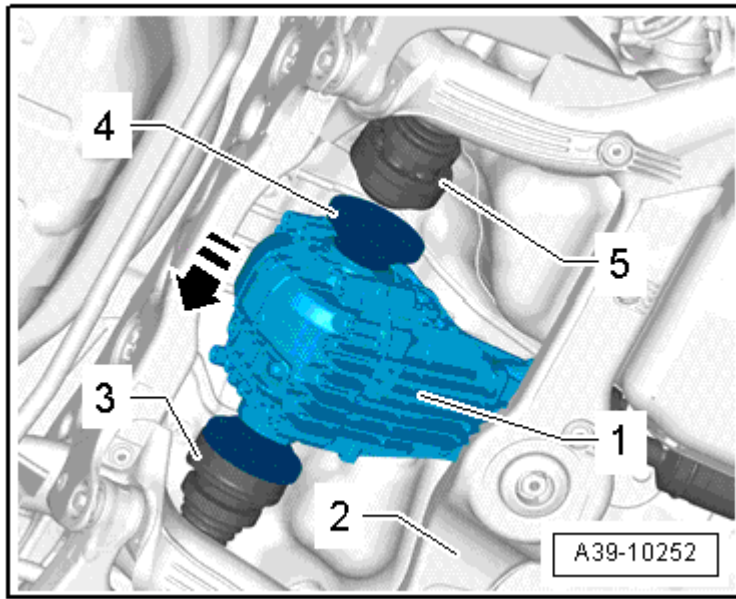


Fig. 64: Mount Rear Final Drive On Subframe
Courtesy of AUDI OF AMERICA, LLC

- Install the left drive axle -3- into the final drive flange shaft.
- A second technician must lift the rear final drive -1- in direction of -arrow- toward the left side of the vehicle.
- Attach the right drive axle -5- to the final drive flange shaft -4-.
- Remove the V.A.G 1383 A and the T10149 from the left rear suspension.
- Place the V.A.G 1383 A with the V.A.G 1359/2 and a block of wood (approximately 80 mm tall) under the rear final drive -A-.

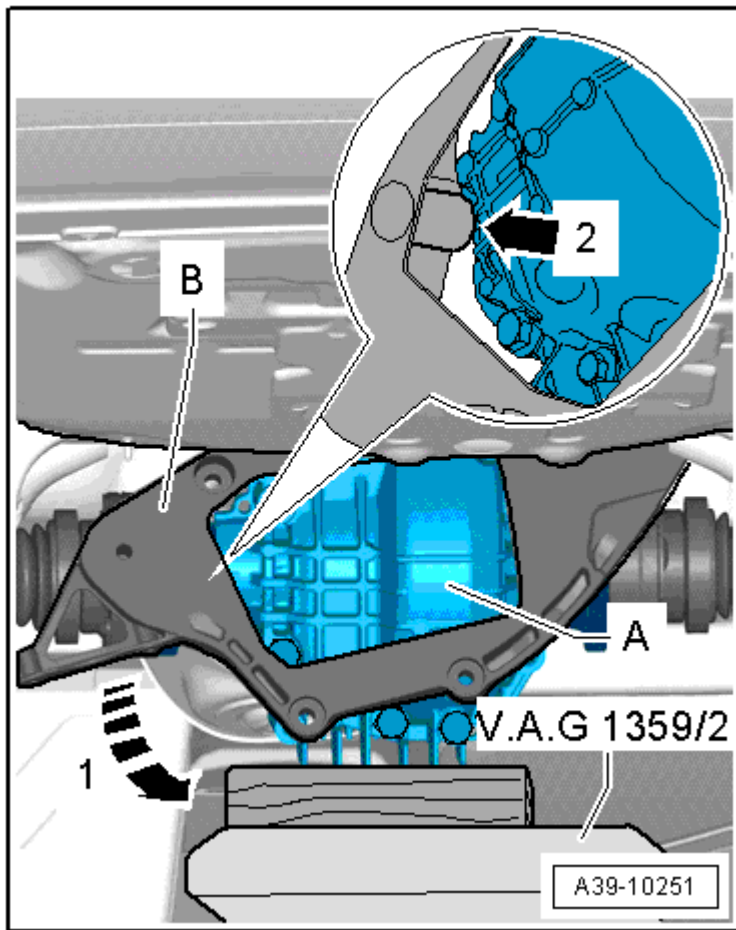


Fig. 65: Placing V.A.G 1383 A With V.A.G 1359/2 And A Block Of Wood
Courtesy of AUDI OF AMERICA, LLC

- Push the final drive -A- slightly to the front.
- Rotate and install the crossmember -B- opposite the direction of -arrow 1- while guiding past the final drive -arrow 2-.
- Diagonally tighten the 4 bolts for attaching the crossmember -B- to the rear final drive. Tightening specification -item 4- **REAR FINAL DRIVE OVERVIEW.**

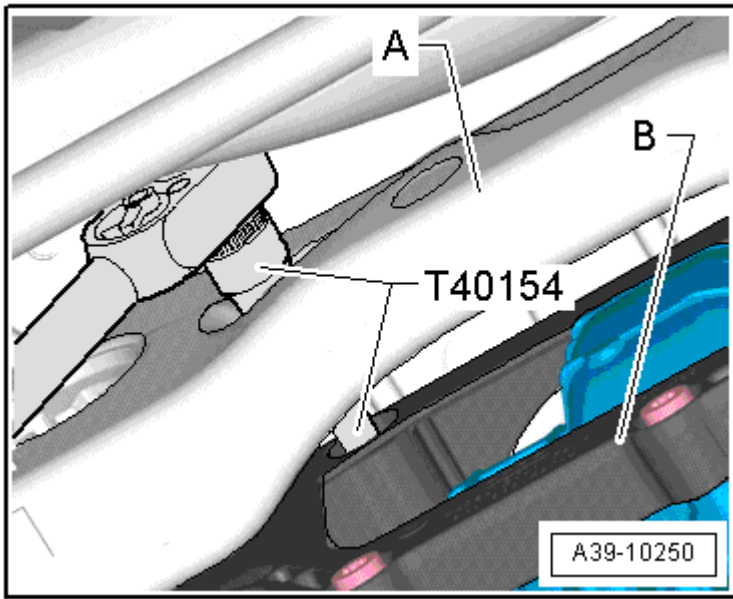


Fig. 66: Removing Two Upper Crossmember Bolts To Rear Final Drive
Courtesy of AUDI OF AMERICA, LLC

-- Guide the T40154 through the holes in the subframe -A-. Move the final drive to the left or to the right if necessary.

-- Install the bolts -2 and 4- hand-tight.

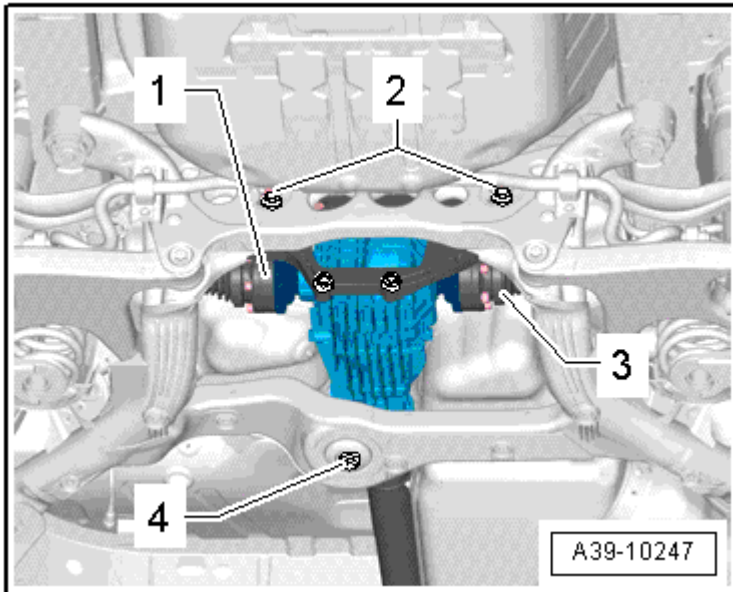


Fig. 67: Removing Left And Right Driveshaft
Courtesy of AUDI OF AMERICA, LLC

NOTE: The V.A.G 1383 A and the V.A.G 1359/2 are not shown in the illustration.

- Tighten the bolt -4-. Tightening specification -item 3- **REAR FINAL DRIVE OVERVIEW**.
- Tighten the bolts -2-. Tightening specification -item 1- **REAR FINAL DRIVE OVERVIEW**.
- Remove the V.A.G 1383 A from under the final drive.
- Tighten the left -1- and right -3- drive axles. Refer to **[For engine(s) CAEB, CALA, CCBA] Removal and Installation** .
- Attach the left drive axle heat shield -A- to the crossmember/rear final drive -arrows- -item 6- **REAR FINAL DRIVE OVERVIEW**.

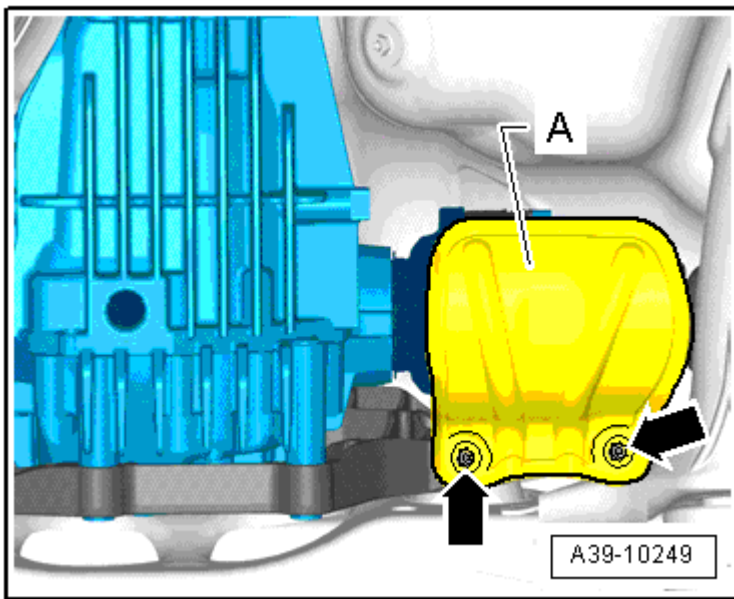


Fig. 68: Removing Left Driveshaft Head Shield
Courtesy of AUDI OF AMERICA, LLC

- Attach the driveshaft to the rear final drive **DRIVESHAFT FROM REAR FINAL DRIVE**.

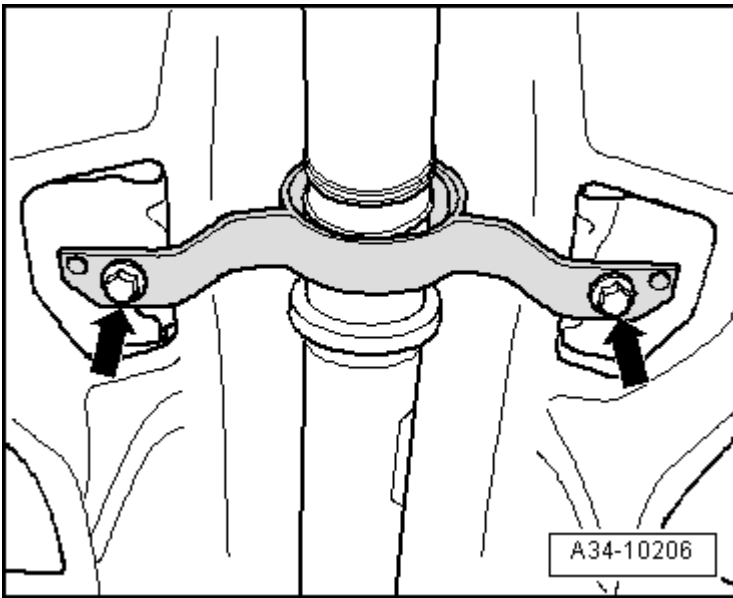


Fig. 69: Removing Mounting Bolts

Courtesy of AUDI OF AMERICA, LLC

- Attach the driveshaft intermediate bearing to the body free of tension Tightening specification -item 8- 8.
- Check axle oil level in rear final drive. Refer to **REAR FINAL DRIVE GEAR OIL, CHECKING.**
- Attach the heat shield -3- to the body -arrows-.

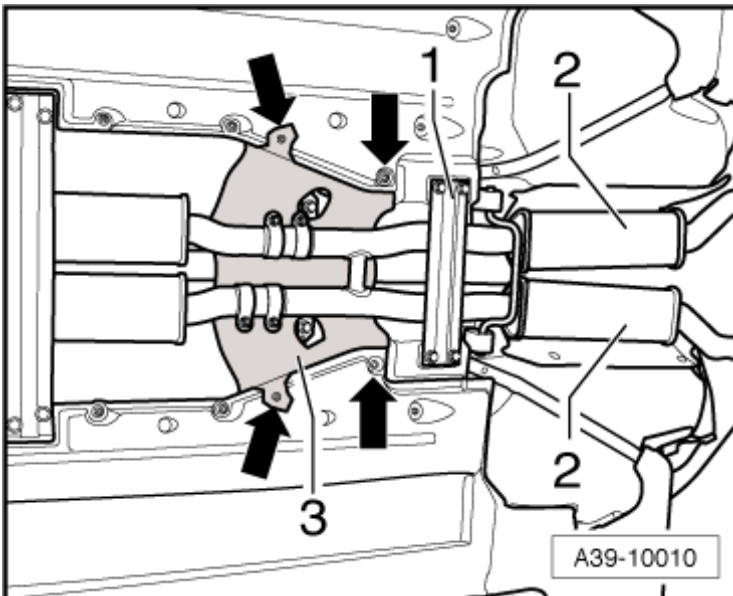


Fig. 70: Removing Rear Transverse Beam & Heat Shield From Vehicle Floor

Courtesy of AUDI OF AMERICA, LLC

- Install and adjust rear section of the exhaust system free of stress. Refer to **[For transmission(s) 0AW] [For engine(s) CALA] Description and Operation** or to **[For engine(s) CAEB] Description and Operation** or to

[For engine(s) CCBA] Description and Operation .

- Install the crossmember -1- (if equipped). Refer to **Description and Operation** .
- Install the left rear wheel. Refer to **Removal and Installation** .

FLANGE SHAFT SEALS, REAR FINAL DRIVE REMOVED

- The seals can only be replaced when the final drive is removed.

Special tools and workshop equipment required

- Puller T10037
- Needle Bearing Drift VW 295
- Thrust Piece T40108
- Sealing grease G 052 128 A1

Removing

- Follow the general repair instructions. Refer to **REPAIR INFORMATION** .
- Remove rear final drive. Refer to **REAR FINAL DRIVE**.

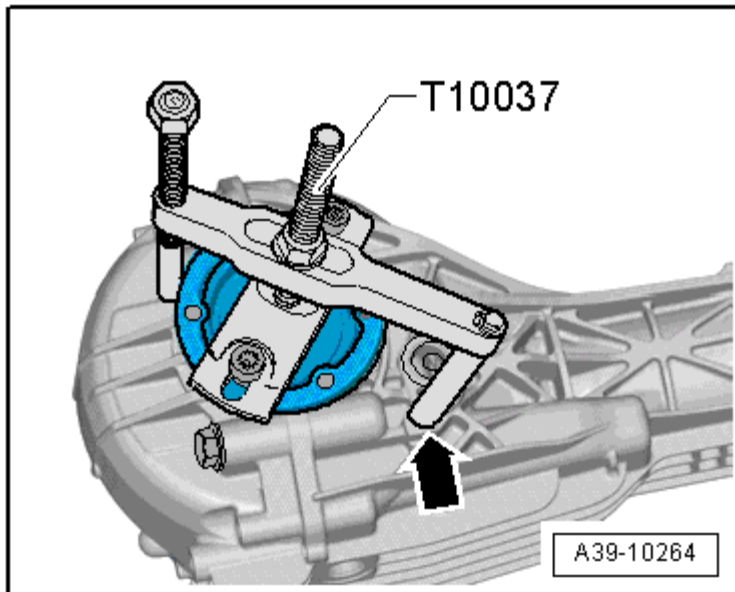
Removing Right Flange Shaft

Fig. 71: Removing Right Flange Shaft
Courtesy of AUDI OF AMERICA, LLC

- Thread T10037 tightly to housing -arrow- and pull out flange shaft.

Removing Left Flange Shaft

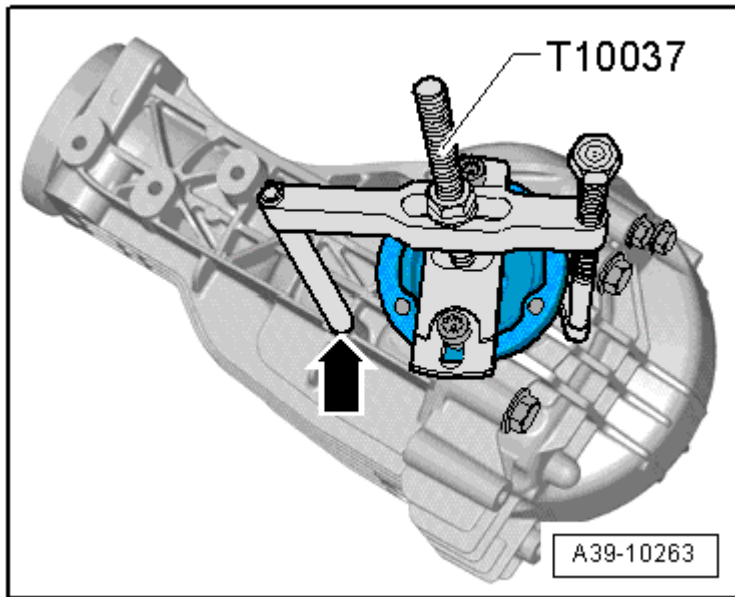


Fig. 72: Removing Left Flange Shaft

Courtesy of AUDI OF AMERICA, LLC

-- Thread T10037 tightly to housing -arrow- and pull out flange shaft.

-- Pry out the shaft seal.

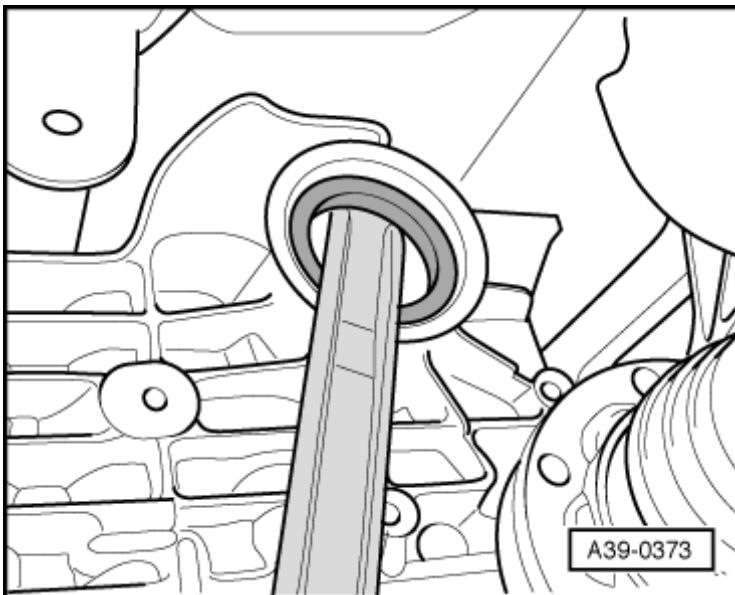


Fig. 73: Prying Out Sealing Ring With Suitable Lever

Courtesy of AUDI OF AMERICA, LLC

Installing

Install in reverse order of removal. Note the following:

Install Right Shaft Seal

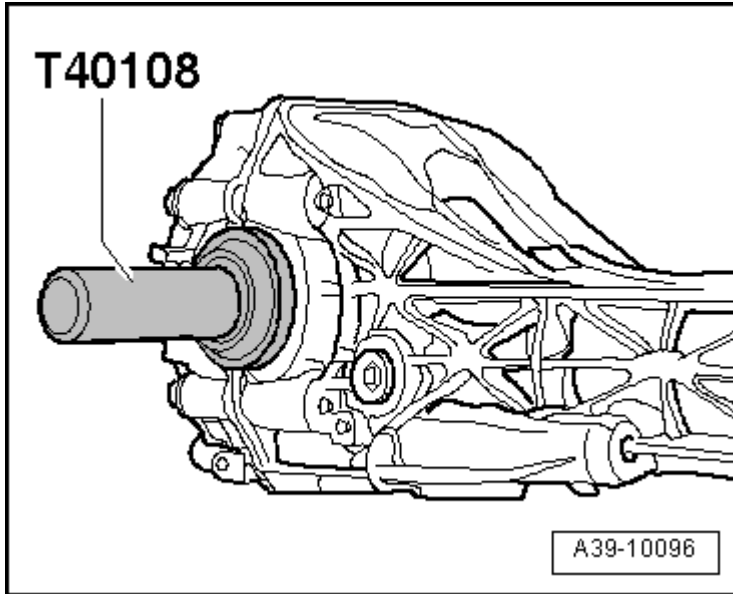


Fig. 74: Driving In New Seal To Stop, Without Canting Seal
Courtesy of AUDI OF AMERICA, LLC

- Coat the outer circumference of the shaft seal with gear oil.
- Fill the space between the sealing and dust lips halfway with sealing grease G 052 128 A1.
- Install the new shaft seal all the way without tilting it.

Install Left Shaft Seal

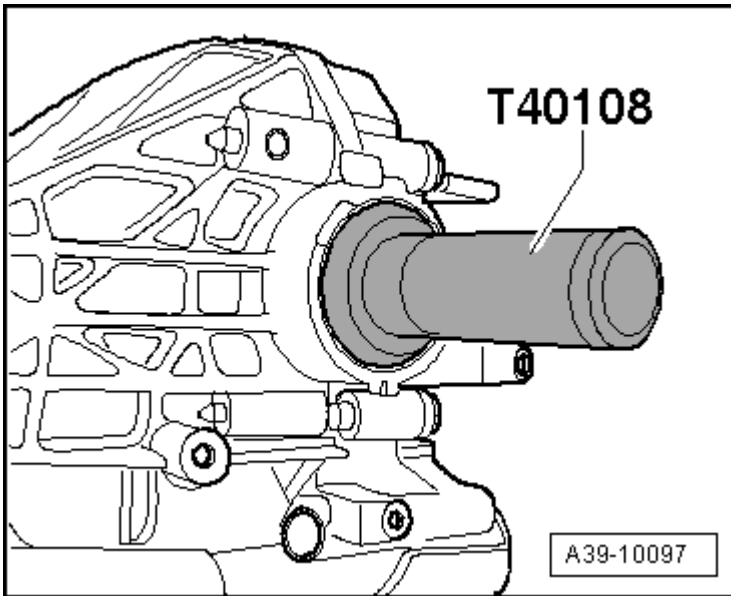


Fig. 75: Driving In New Seal To Stop, Without Canting Seal
Courtesy of AUDI OF AMERICA, LLC

- Coat the outer circumference of the shaft seal with gear oil.
- Fill the space between the sealing and dust lips halfway with sealing grease G 052 128 A1.
- Install the new shaft seal all the way without tilting it.

Install Right and Left Flange Shafts

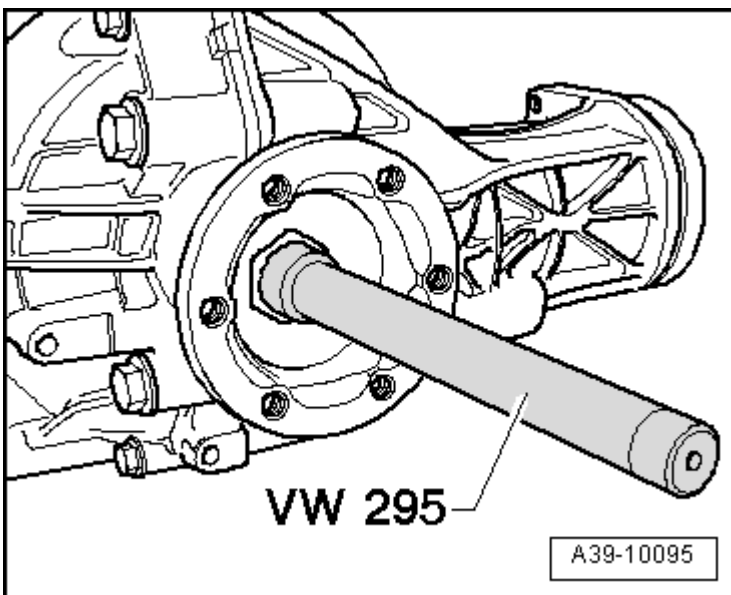


Fig. 76: Installing Right/Left Flange Shafts
Courtesy of AUDI OF AMERICA, LLC

-- Drive in flange shaft using VW 295.

-- Install rear final drive. Refer to **REAR FINAL DRIVE**.

-- Check the gear oil in the rear final drive. Refer to **REAR FINAL DRIVE GEAR OIL, CHECKING**.

FLANGE SHAFT RING

Special tools and workshop equipment required

- Thrust Plate VW 401
- Thrust Plate VW 402
- Thrust Disc VW 412
- Press Support-R and R Ball Joints 3146
- -3- Separating Device 22 to 115 mm, for example Kukko 17/2

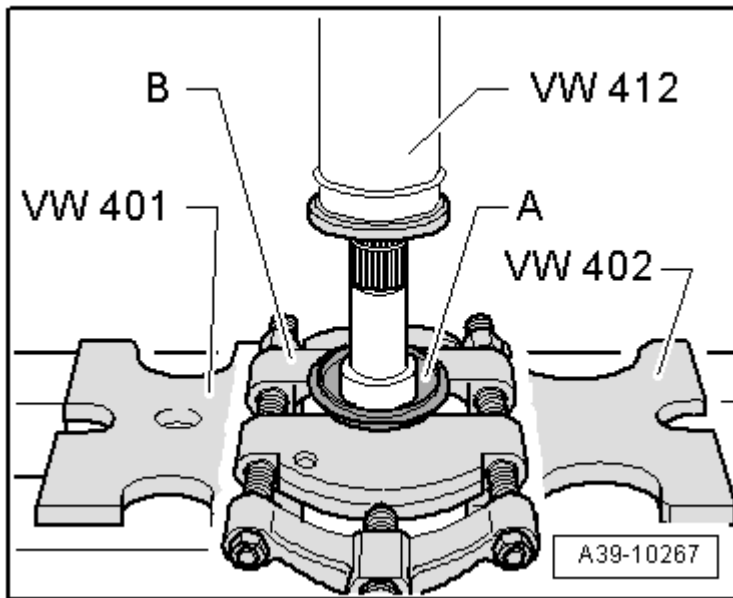


Fig. 77: Removing Ring -A- From Flange Shaft
Courtesy of AUDI OF AMERICA, LLC

B - Separating Tool 22 to 115 mm, for example Kukko 17/2

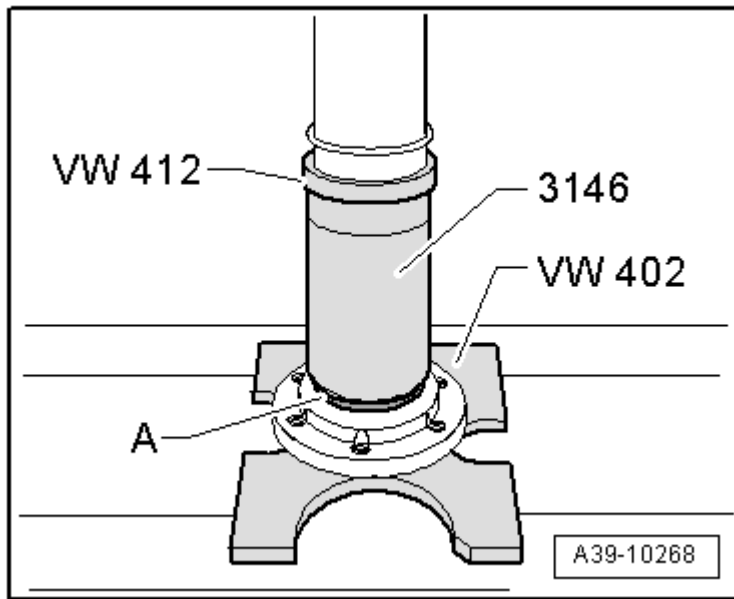


Fig. 78: Installing Ring -A- On Flange Shaft
Courtesy of AUDI OF AMERICA, LLC

- Installed position of the ring -A- : the larger outer circumference of the ring faces the flange.

FLANGE/DRIVESHAFT SEAL

Special tools and workshop equipment required

- Puller VW 391
- Adapter VW 771/40 from the Slide Hammer-Complete Set VW 771
- Retainer 3028
- Puller T10055
- -2- Adapter T10055/2
- Thrust Piece T40109
- Assembly Tool T40222/1
- Sealing grease G 052 128 A1
- Two M8 x 30 bolts
- 1 M8 x 45 bolt

Removing

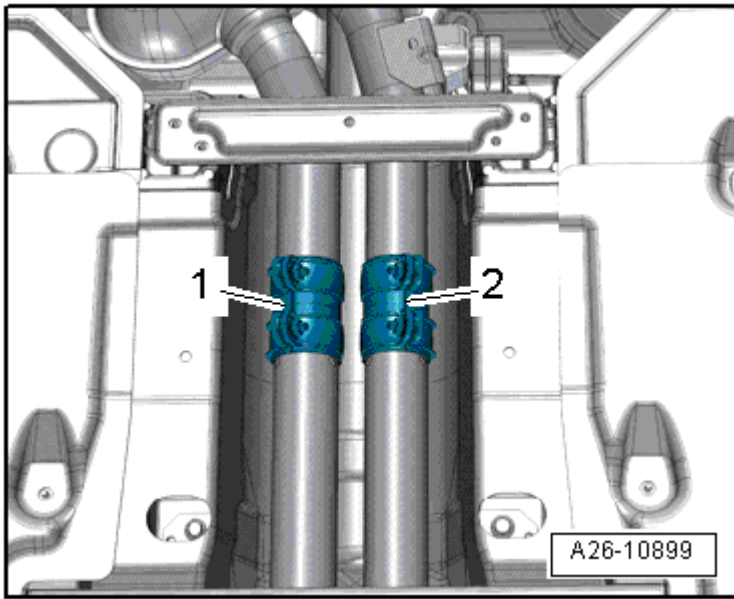


Fig. 79: Exhaust System Clamping Sleeves
 Courtesy of AUDI OF AMERICA, LLC

- The rear final drive is installed
- Observe general repair notes. Refer to **REPAIR INFORMATION** .

-- Separate the exhaust system at the clamping sleeves -1 and 2-.

-- Remove rear section of the exhaust system. Refer to **[For transmission(s) 0AW] [For engine(s) CALA] Description and Operation** or to **[For engine(s) CAEB] Description and Operation** or to **[For engine(s) CCBA] Description and Operation** .

NOTE: **A second technician will be needed to help remove the rear section of the exhaust system.**

-- Open the gear oil drain plug -arrow- and let approximately 250 ml gear oil drain out.

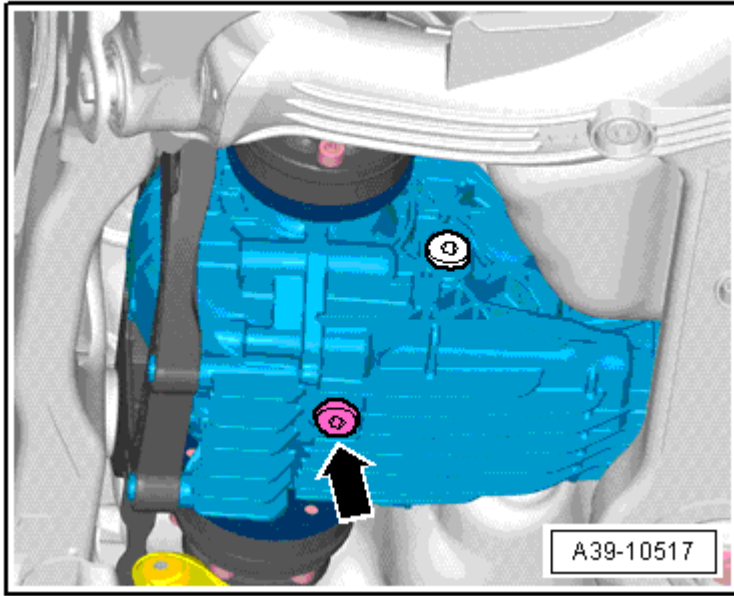


Fig. 80: Opening Gear Oil Drain Plug And Let Approximately 250 MI Gear Oil Drain Out
 Courtesy of AUDI OF AMERICA, LLC

-- Install the drain plug -arrow- and tighten.

- Tightening specification: 30 Nm

-- Remove the driveshaft from the rear final drive. Refer to **DRIVESHAFT FROM REAR FINAL DRIVE**.

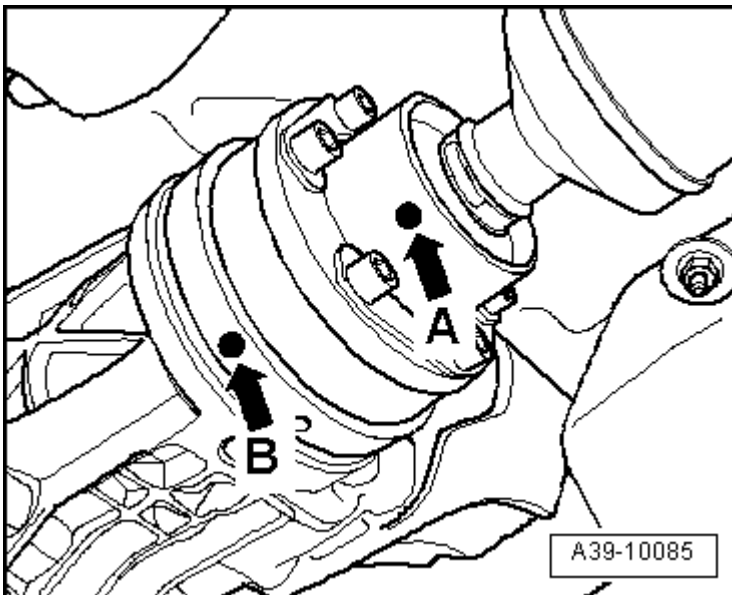


Fig. 81: Identifying Mark Position Of Driveshaft Flange To Rear Final Drive
 Courtesy of AUDI OF AMERICA, LLC

Audi A8

-- Guide the driveshaft between the fuel tank and the rear subframe downward and tie it to the side.

Audi A6 and Audi A7

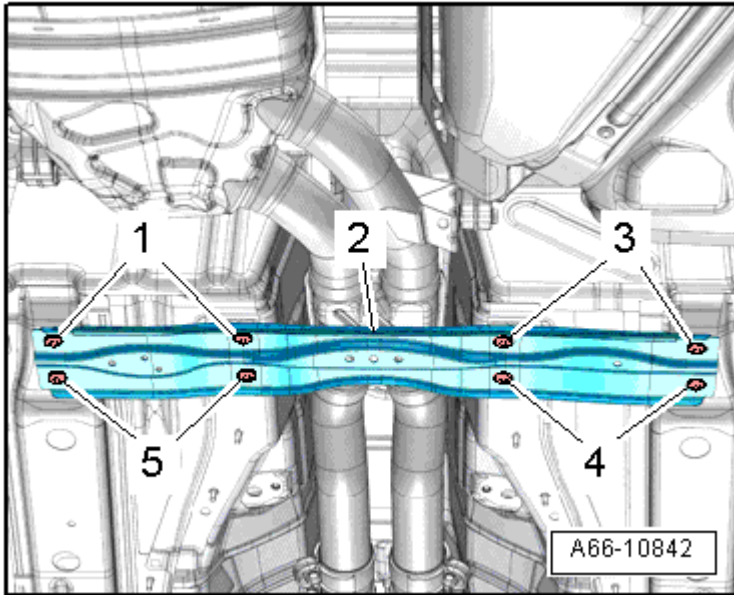


Fig. 82: Identifying Crossbrace

Courtesy of AUDI OF AMERICA, LLC

-- Remove the crossbrace -2-. Refer to "Heat Shields and Crossbraces" in **Removal and Installation** .

Audi A4, Audi A5 Coupe, Audi A5 Sportback, Audi A5 Cabriolet and Audi Q5

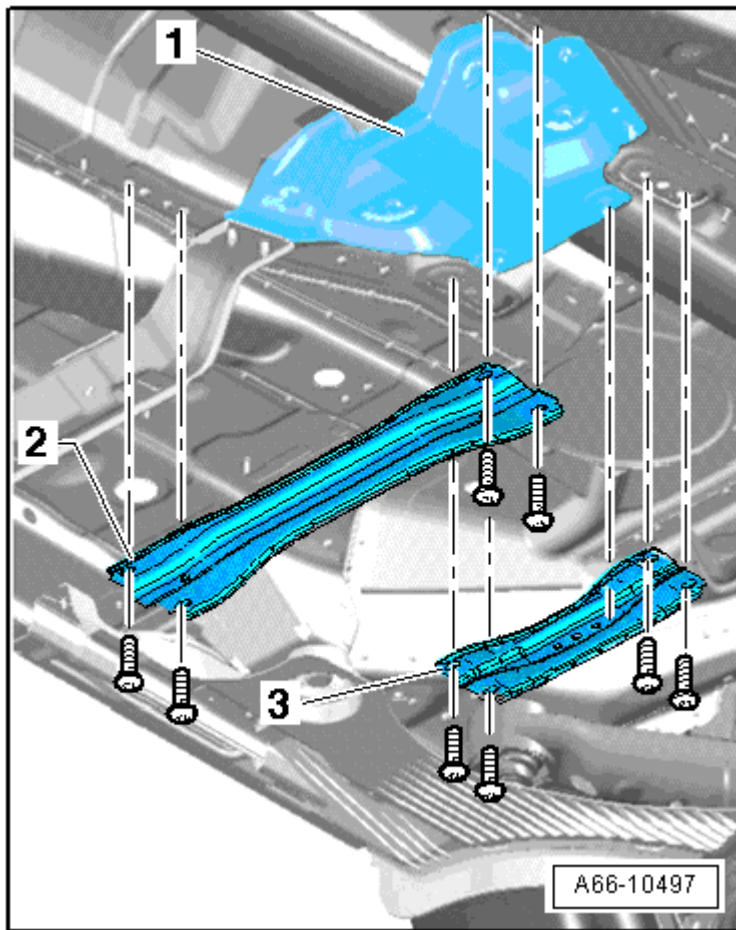


Fig. 83: Identifying Crossmember

Courtesy of AUDI OF AMERICA, LLC

- Remove the front -2- and rear -3- crossmembers, if equipped.
- Remove the heat shield -1-.
- Remove the bolts -arrows- from the driveshaft intermediate bearing.

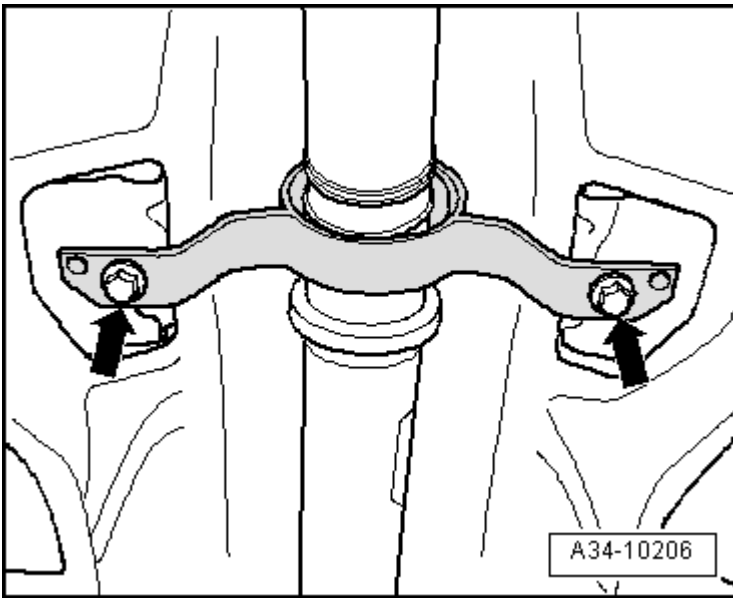


Fig. 84: Removing Mounting Bolts

Courtesy of AUDI OF AMERICA, LLC

- Lower the driveshaft by the center bearing.
- At the same time, guide the driveshaft between the fuel tank and the rear subframe downward.
- Install the bolts -arrows- for the intermediate bearing hand-tight.
- Tie up the driveshaft.

Continuation for All Vehicles

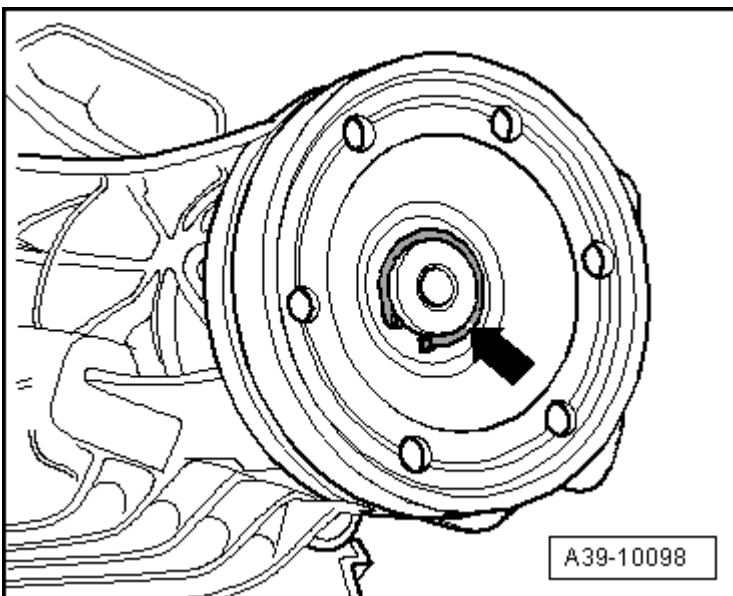


Fig. 85: Removing/Installing Circlip

Courtesy of AUDI OF AMERICA, LLC

-- Remove any high temperature grease inside the flange/driveshaft.

-- Remove the locking ring -arrow-.

CAUTION: If the circlip is over-stretched or damaged, it must be replaced by a new circlip of the same thickness.

-- Mark the position of the flange/driveshaft -B- to the pinion -A- -arrow-.

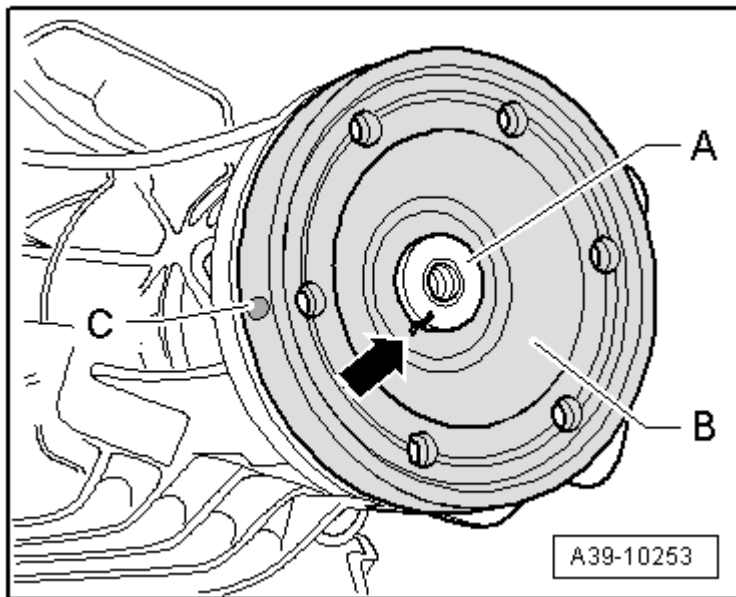


Fig. 86: Locating Mark Position Of Flange/Driveshaft To Pinion
Courtesy of AUDI OF AMERICA, LLC

NOTE: This mark -arrow- is needed so that the color dot -C- on the outside of the flange remains in its earlier position.

Only by doing this can the smallest imbalance possible inside the rear final drive be guaranteed.

-- Install 2 M8 x 30 bolts -arrow- into the flange.

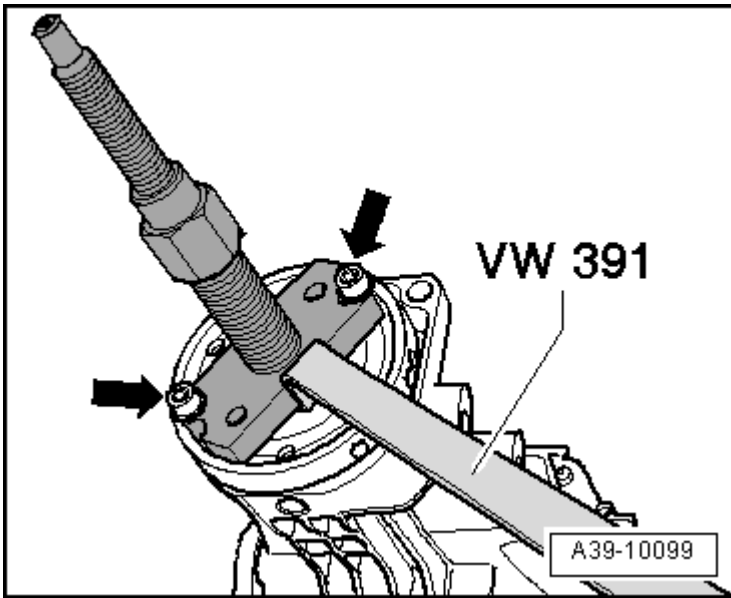


Fig. 87: Pulling Off Drive Shaft Flange Using Puller VW 391
 Courtesy of AUDI OF AMERICA, LLC

- Pull off driveshaft flange using VW 391.
- Place an absorbent cloth -A- under the final drive on the subframe.

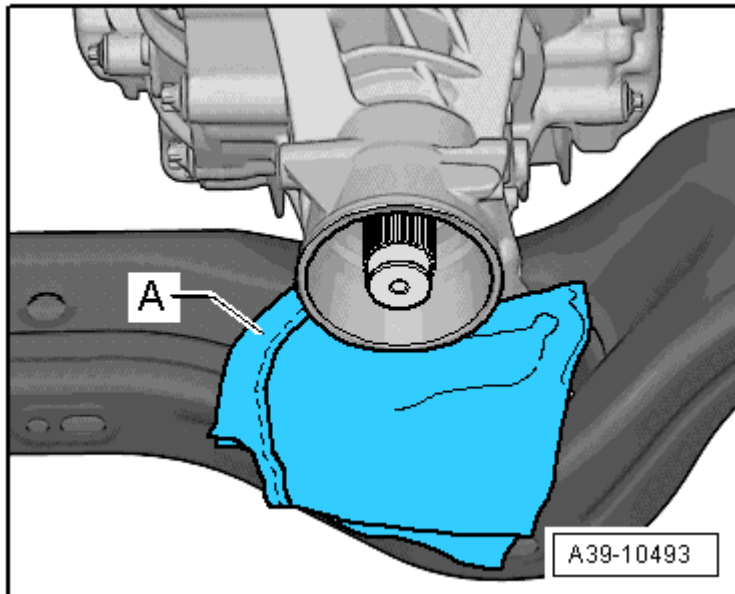


Fig. 88: Identifying Cloth Under Final Drive On Subframe
 Courtesy of AUDI OF AMERICA, LLC

- Puncture the metal cover on the shaft seal -A- in direction of -arrow- using a scriber -B-.

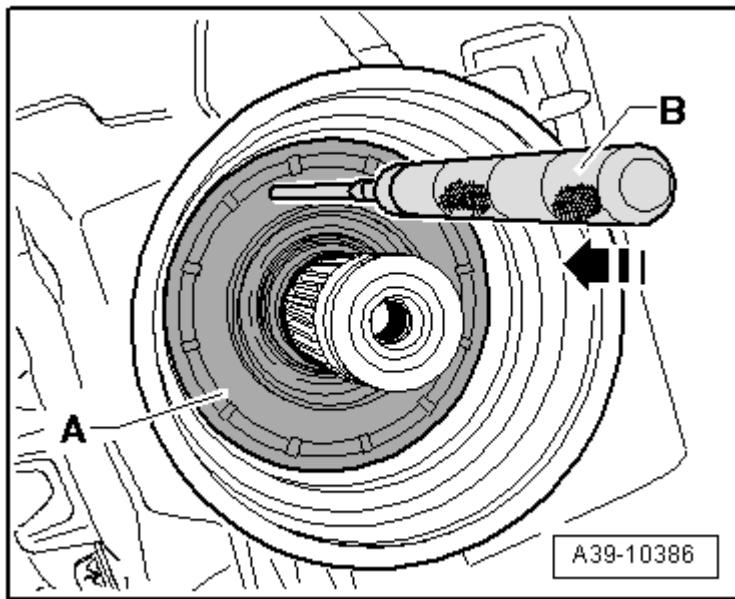


Fig. 89: Puncturing Metal Cover Using Scriber
Courtesy of AUDI OF AMERICA, LLC

-- Insert a screw -arrow- into this opening -A-.

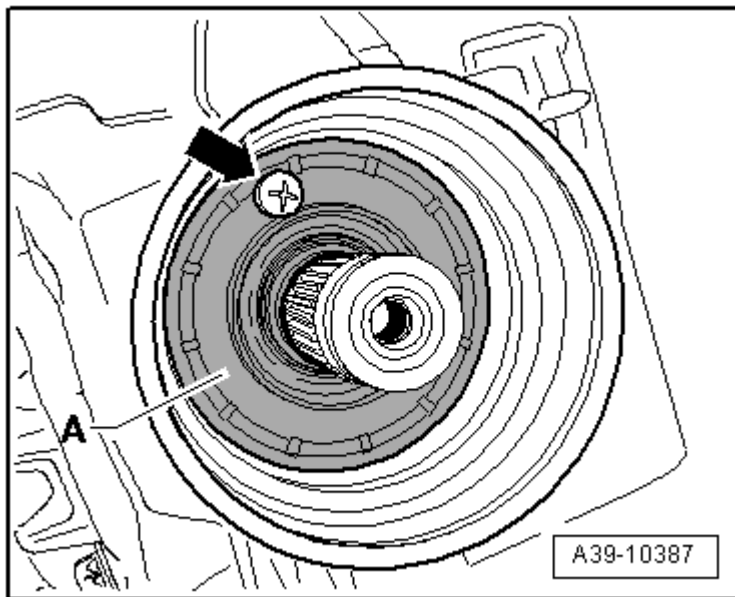


Fig. 90: Identifying Screw On Metal Cover
Courtesy of AUDI OF AMERICA, LLC

-- Remove the flange/driveshaft seal -A- in direction of -arrow-.

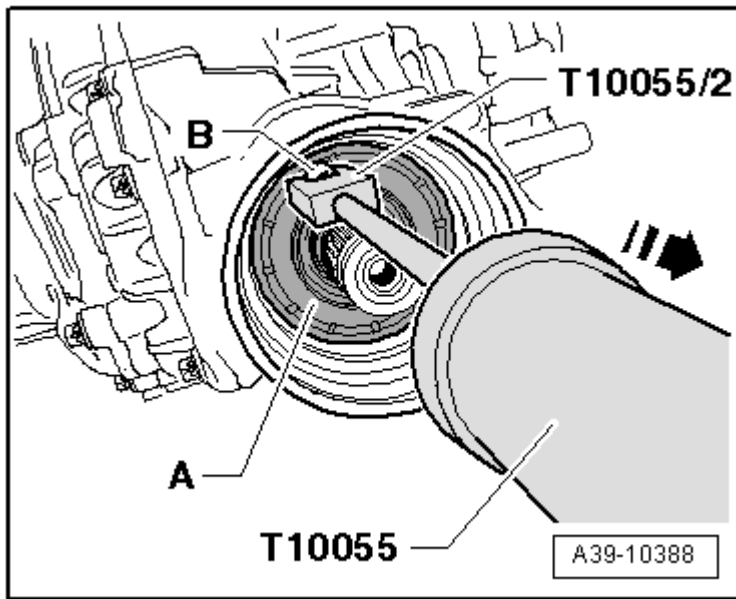


Fig. 91: Removing Flange/ Driveshaft Seal
 Courtesy of AUDI OF AMERICA, LLC

-B- screw

Installing

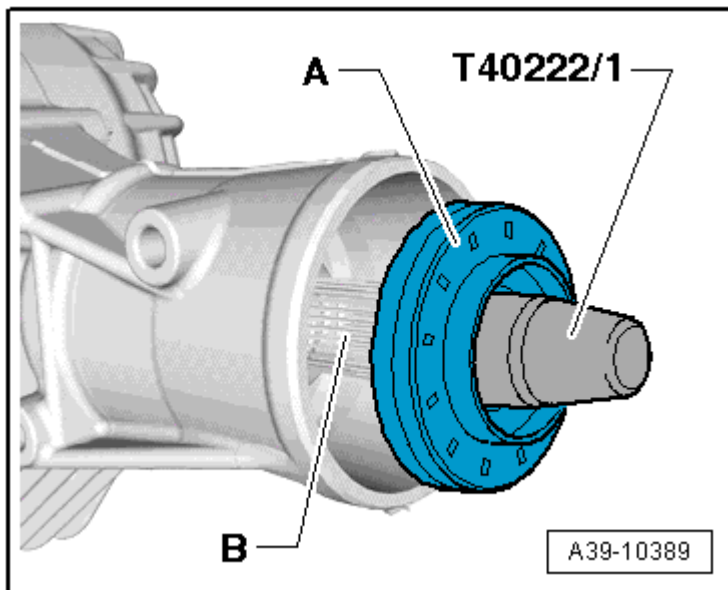


Fig. 92: T40222/1
 Courtesy of AUDI OF AMERICA, LLC

Install in reverse order of removal. Note the following:

-- Fill the space between the sealing and dust lips halfway with sealing grease G 052 128 A1.

-- Place the new seal -A- on the T40222/1.

NOTE: **Make sure the spring on the seal is behind the sealing lip when it is installed.**

-- Coat the outer circumference of the shaft seal with gear oil.

-- Install the T40222/1 and the shaft seal -A- on the pinion -B-.

-- Install the seal -A- all the way.

-- Remove the T40222/1.

-- Install the new shaft seal all the way without tilting it.

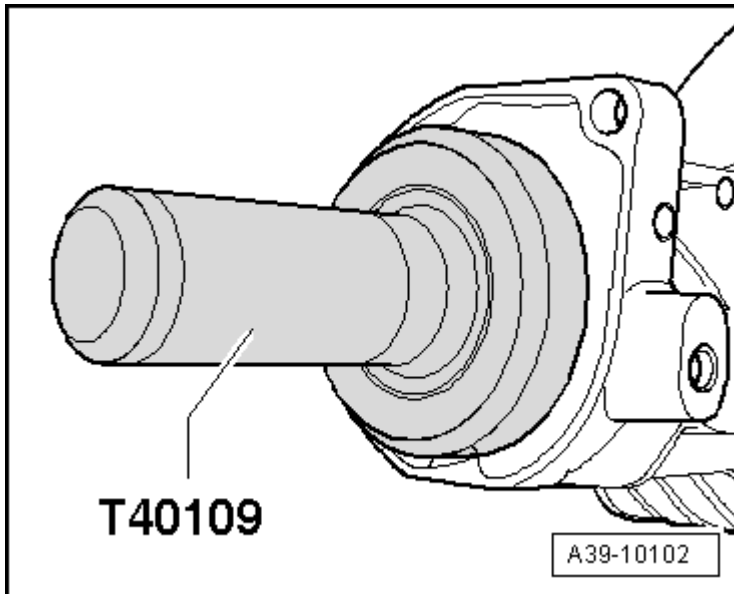


Fig. 93: Driving In New Seal To Stop, Without Canting Seal
Courtesy of AUDI OF AMERICA, LLC

-- Position the flange/driveshaft -B- on the pinion -A- so that the marking -arrow- lines up.

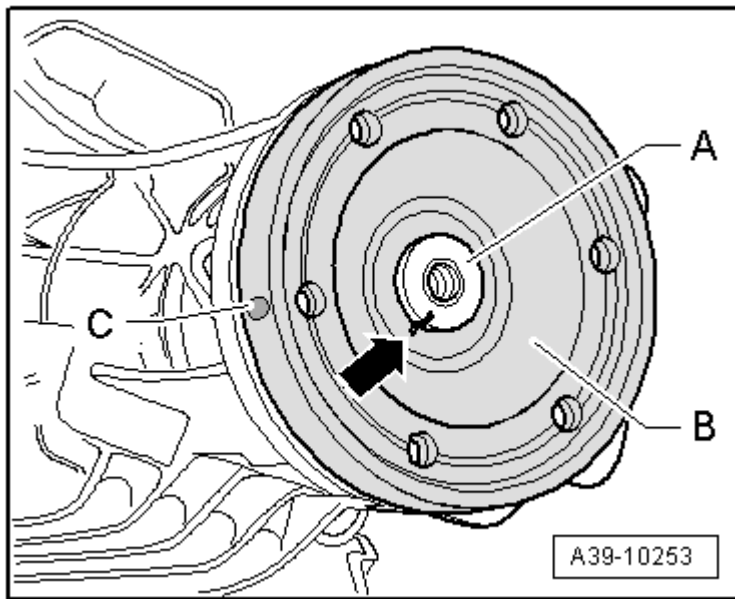


Fig. 94: Locating Mark Position Of Flange/Driveshaft To Pinion
Courtesy of AUDI OF AMERICA, LLC

-- Install the VW 771/40 into the threaded hole in the pinion.

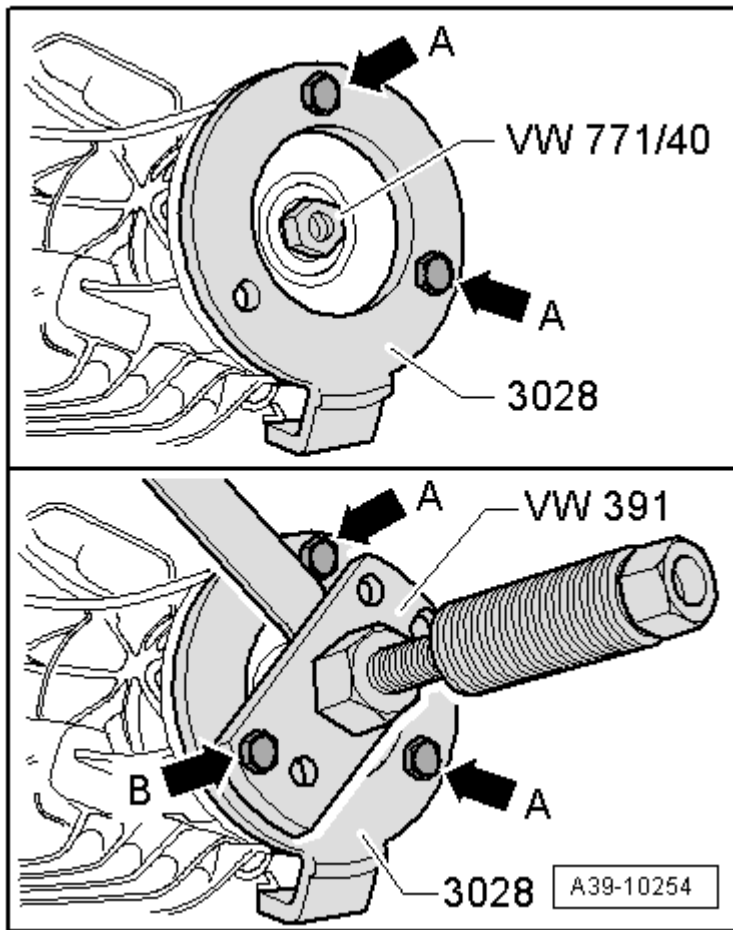


Fig. 95: Installing Mark Position Flange/Driveshaft To Pinion
 Courtesy of AUDI OF AMERICA, LLC

- Attach the 3028 to the flange/driveshaft with the M8 x 30 bolts -arrow A-.
- Secure the VW 391 with the M8 x 45 bolt -arrow B-. Turn the VW 391 spindles in the VW 771/40.
- Install the flange/driveshaft all the way while counter holding the VW 391 spindle with a wrench.

INSTALL THE LOCKING RING -1- AS FOLLOWS:

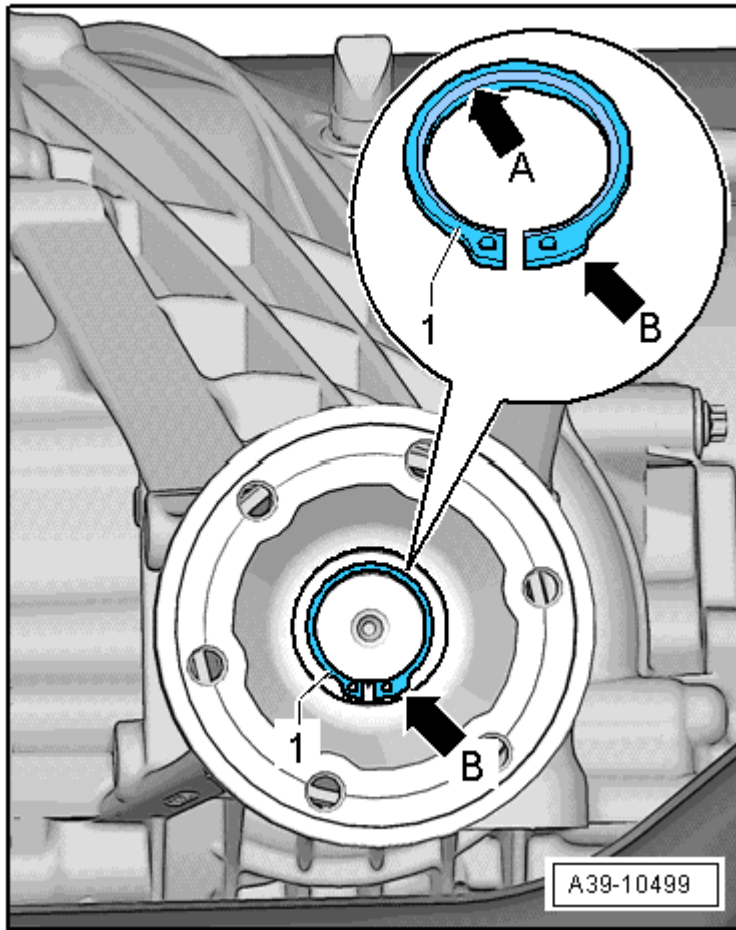


Fig. 96: Installing Locking Ring

Courtesy of AUDI OF AMERICA, LLC

- The bevel on the inner diameter of the locking ring -arrow A- faces out, toward the driveshaft.
- If equipped, the wide strip on the ring -arrow B- must be on the right side, as illustrated.

Note the following when replacing the flange/driveshaft:

- A new locking ring -1- must be selected.
- First determine and then install the thickest possible circlip that can be installed into the groove -1- that can be used; for the correct part number.

-- Driveshaft, attaching to rear final drive **DRIVESHAFT FROM REAR FINAL DRIVE**

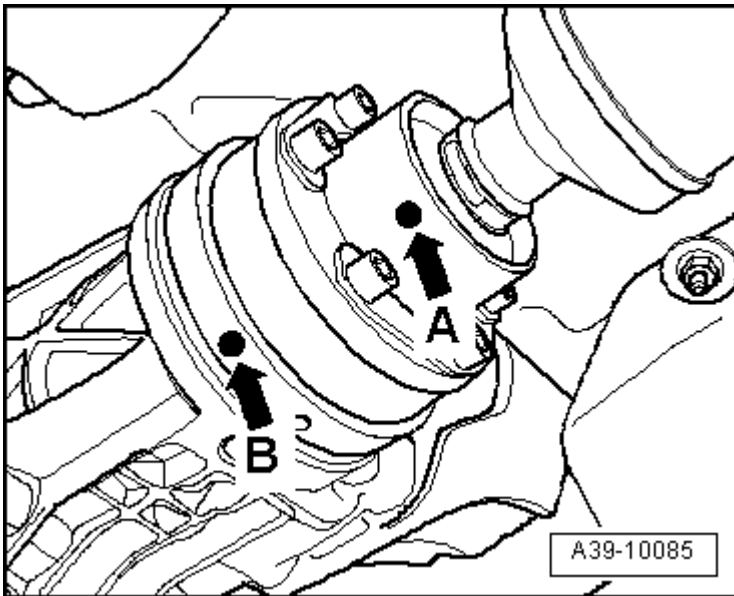


Fig. 97: Identifying Mark Position Of Driveshaft Flange To Rear Final Drive
Courtesy of AUDI OF AMERICA, LLC

Audi A4, A5 Coupe, A5 Sportback, A5 Cabriolet, Q5, A6, A7

-- Tighten the driveshaft center bearing in the body free of tension. Tightening specification -item 9-
DRIVESHAFT MOUNTED ON TRANSMISSION-SIDE OVERVIEW.

-- Install the heat shield and the crossmember. Refer to **Description and Operation** .

Continuation for All Vehicles

-- Fill the gear oil in the rear final drive. Refer to **REAR FINAL DRIVE GEAR OIL, CHECKING.**

-- Install rear section of the exhaust system. Refer to **[For transmission(s) 0AW] [For engine(s) CALA] Description and Operation** or to **[For engine(s) CAEB] Description and Operation** or to **[For engine(s) CCBA] Description and Operation** .

FLANGE/DRIVESHAFT RING

Special tools and workshop equipment required

- Needle Bearing Drift VW 295 A
- Thrust Plate VW 402
- Punch VW 408 A
- Support Channels VW 457
- -3- Separating Device 22 to 75 mm, for example Kukko 17/1

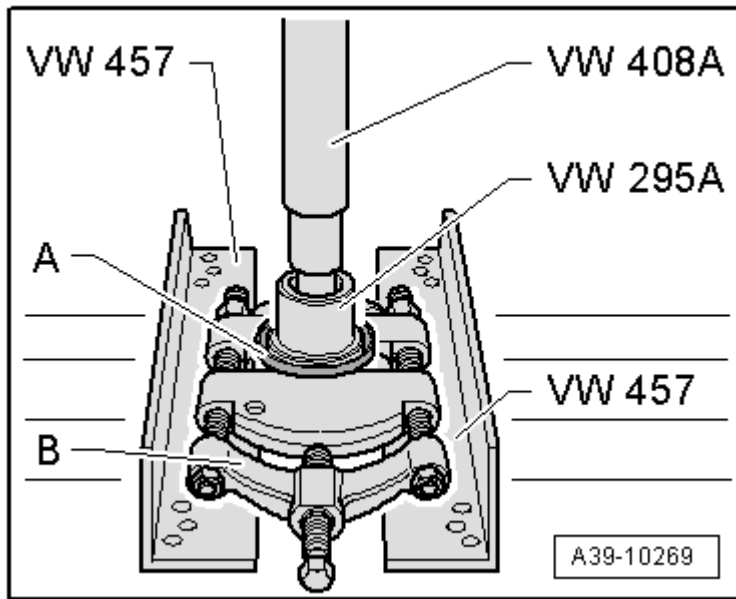


Fig. 98: Removing Ring -A- From Flange/Driveshaft
 Courtesy of AUDI OF AMERICA, LLC

B - Separating Tool 12 to 75 mm, for example Kukko 17/1

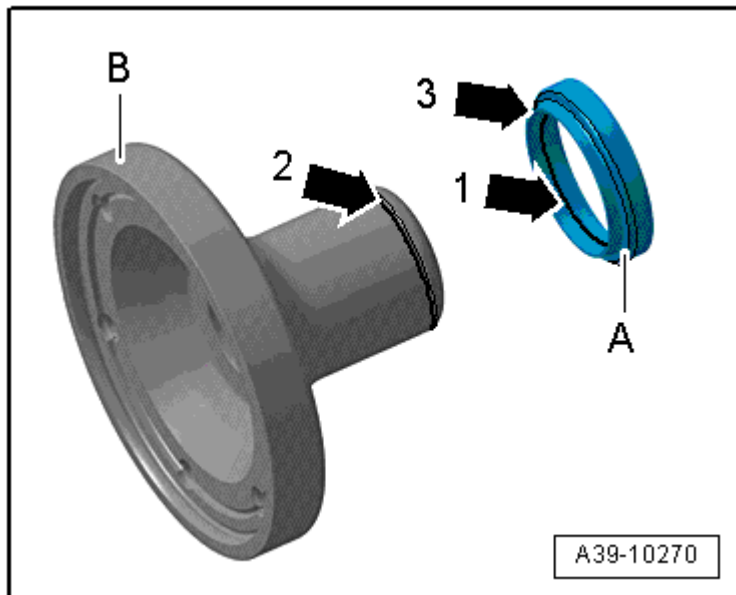


Fig. 99: Ring Installed Position -A- On Flange/Driveshaft
 Courtesy of AUDI OF AMERICA, LLC

- The ring -A- must be installed with the elevation -arrow 1- into the chamfer -arrow 2- on the flange -B-. The smaller outer circumference face the flange -arrow 3-.

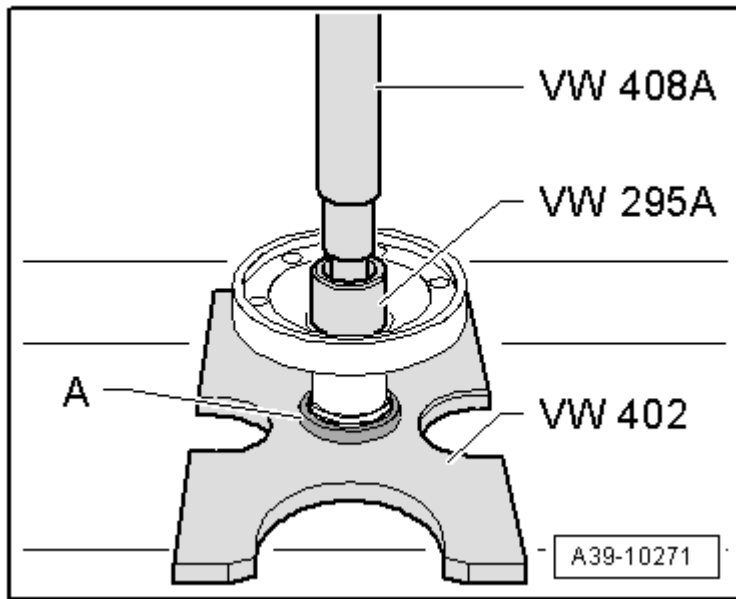


Fig. 100: Installing Ring -A- Onto Flange/Driveshaft
Courtesy of AUDI OF AMERICA, LLC

- The ring -A- must clip into the chamfer in the flange. Refer to **Fig. 99**.

SPECIAL TOOLS

Special tools and workshop equipment required

- Retainer 3028

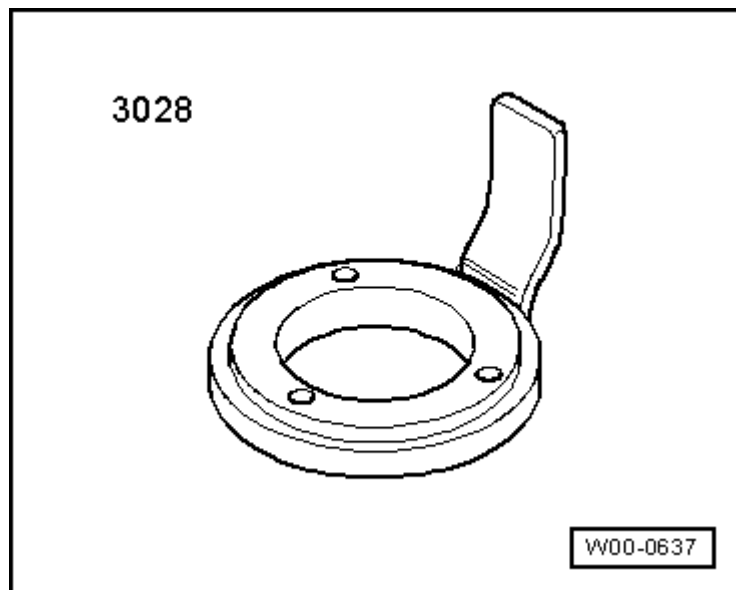


Fig. 101: Retainer 3028
Courtesy of AUDI OF AMERICA, LLC

- Alignment Fixture-4W Dr. Shaft 3139

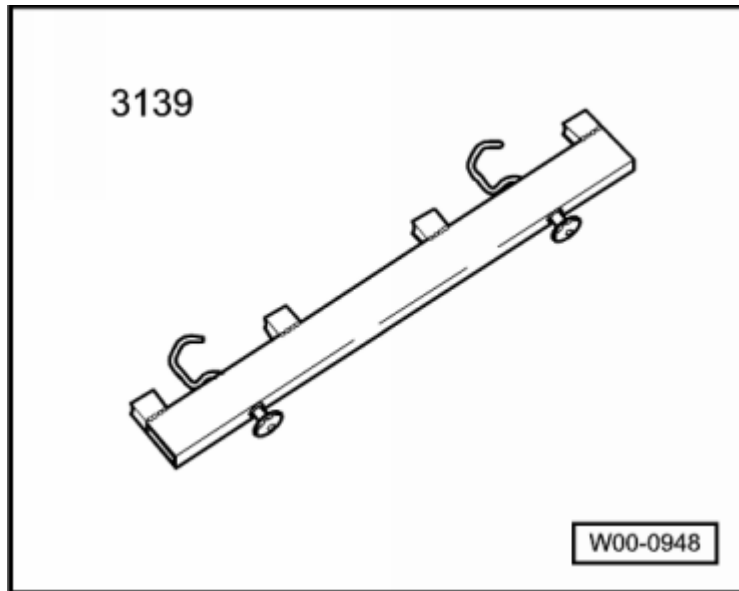


Fig. 102: Alignment Fixture-4W Dr. Shaft 3139
Courtesy of AUDI OF AMERICA, LLC

- Press Support-R and R Ball Joints 3146

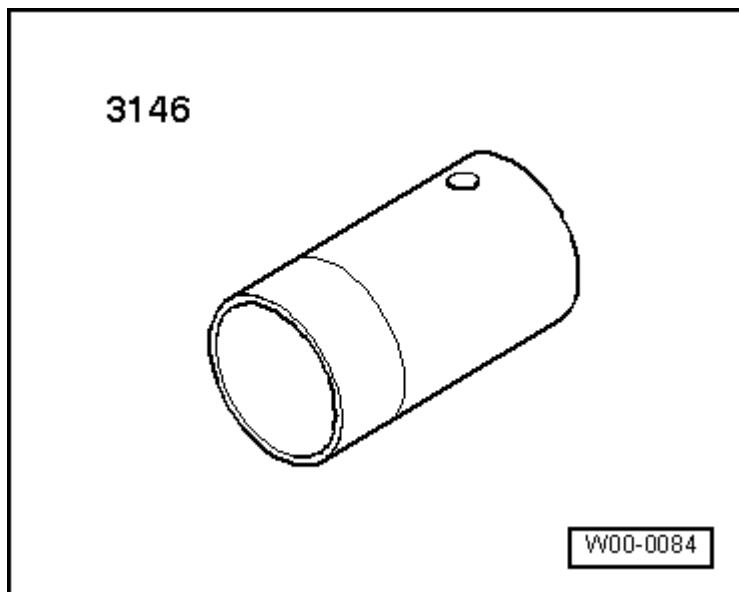


Fig. 103: Press Support-R and R Ball Joints 3146
Courtesy of AUDI OF AMERICA, LLC

- -3- Separating Device 22 to 115 mm, for example Kukko 17/2

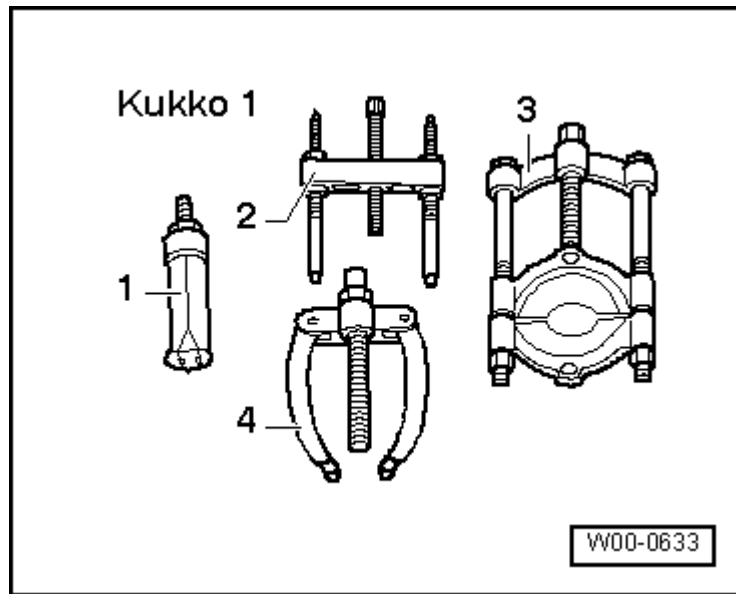


Fig. 104: Identifying Kukko Tools
Courtesy of AUDI OF AMERICA, LLC

- -3- Separating Device 22 to 75 mm, for example Kukko 17/1

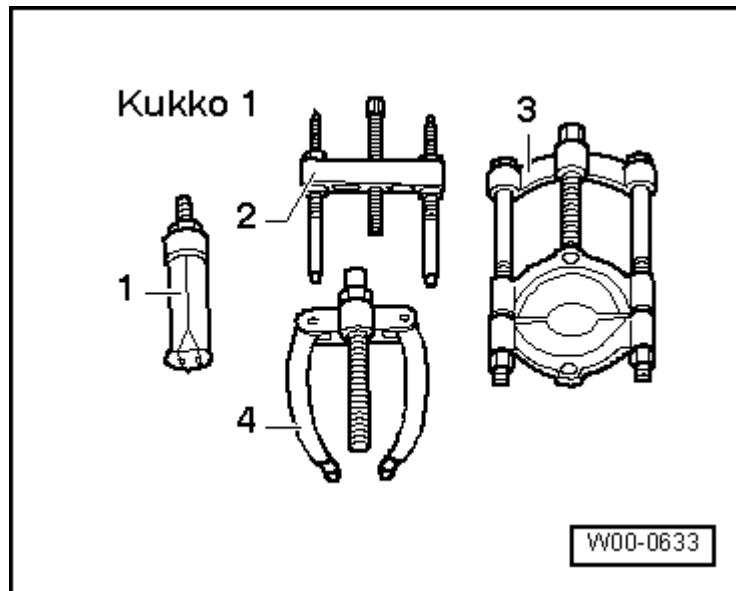


Fig. 105: Identifying Kukko Tools
Courtesy of AUDI OF AMERICA, LLC

- Tensioning Strap T10038

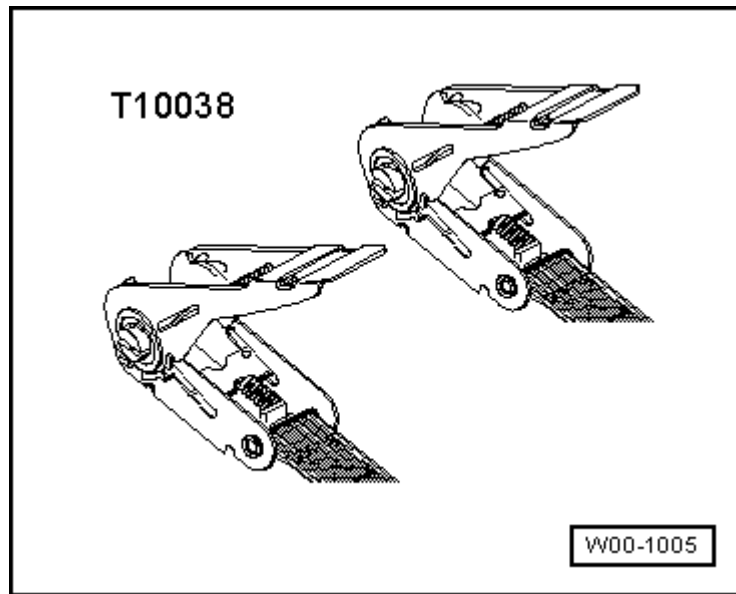


Fig. 106: Tensioning Strap T10038
Courtesy of AUDI OF AMERICA, LLC

- Puller T10037

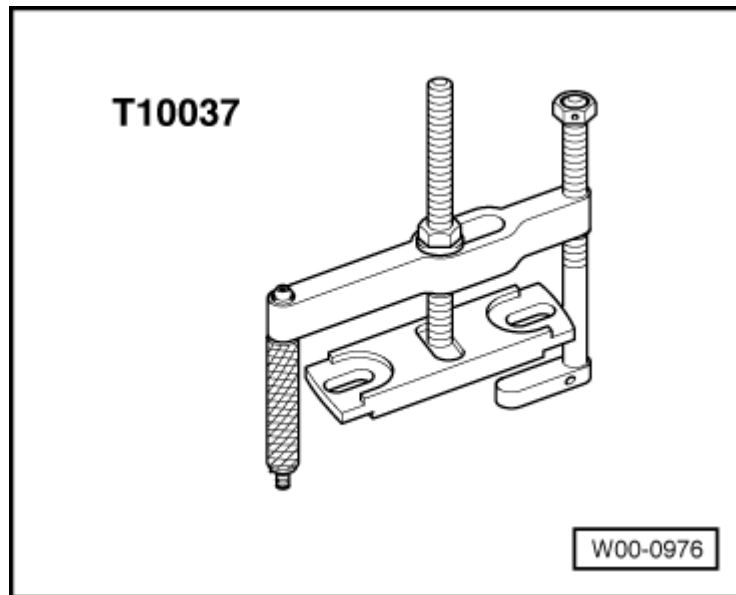


Fig. 107: Puller T10037
Courtesy of AUDI OF AMERICA, LLC

- Puller T10055

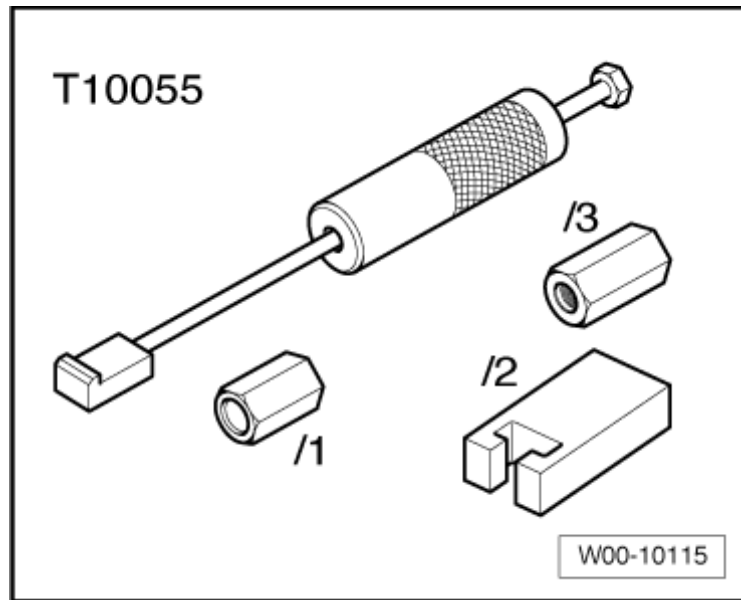


Fig. 108: Identifying Puller T10055 With Adapter T10055/3
 Courtesy of AUDI OF AMERICA, LLC

- -2- Adapter T10055/2
- Wheel Hub Support T10149

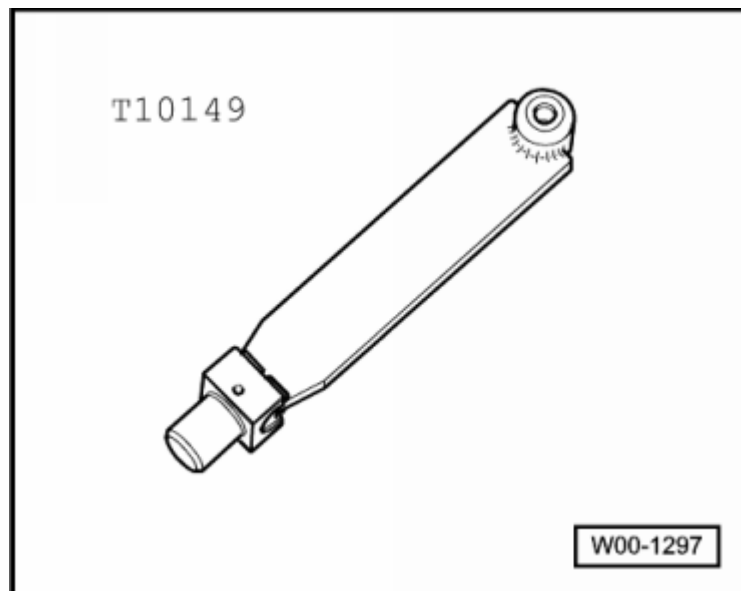


Fig. 109: Identifying Wheel Hub Support T10149
 Courtesy of AUDI OF AMERICA, LLC

- Counterhold Tool Touareg V10 T10172 and Adapters T10172/5

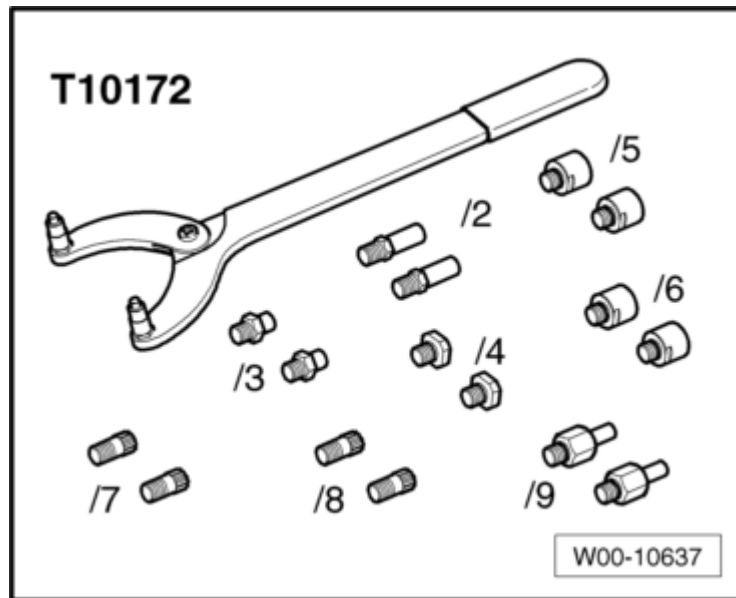


Fig. 110: Counterhold Tool T10172
Courtesy of AUDI OF AMERICA, LLC

- Thrust Piece T40108

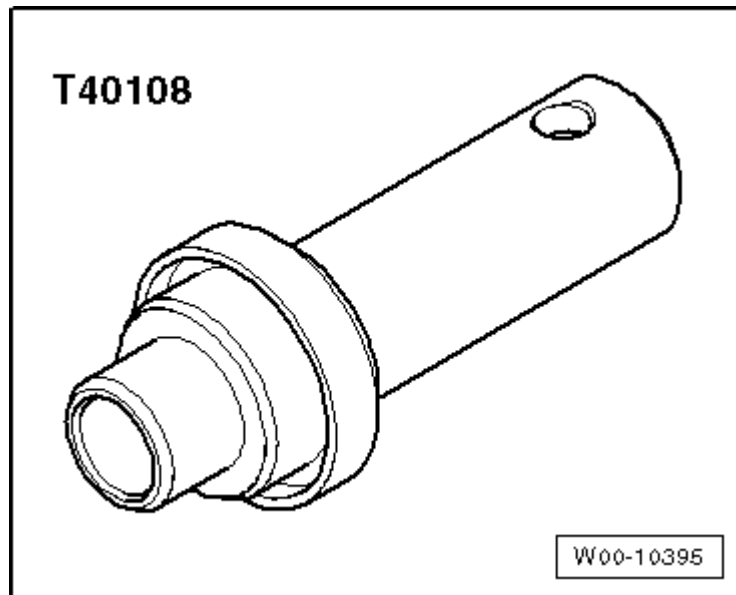


Fig. 111: Thrust Piece T40108
Courtesy of AUDI OF AMERICA, LLC

- Thrust Piece T40109

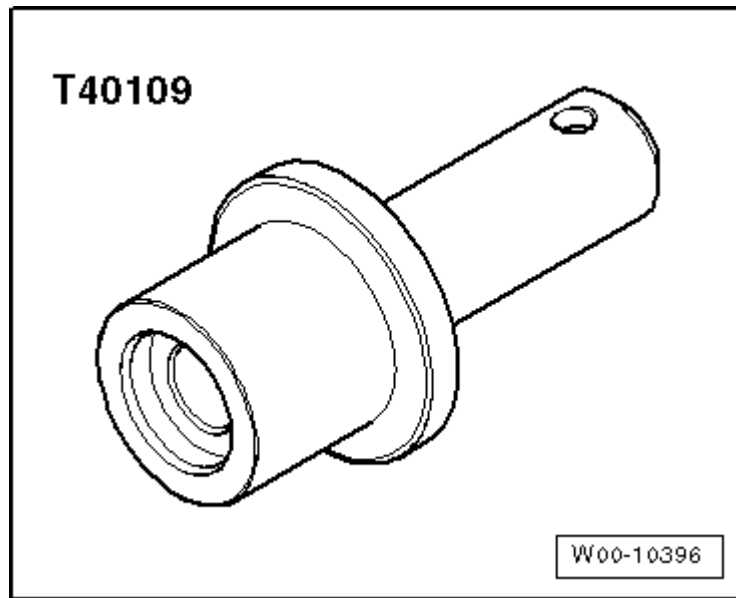


Fig. 112: Thrust Piece T40109
Courtesy of AUDI OF AMERICA, LLC

- Socket XZN 12 T40154

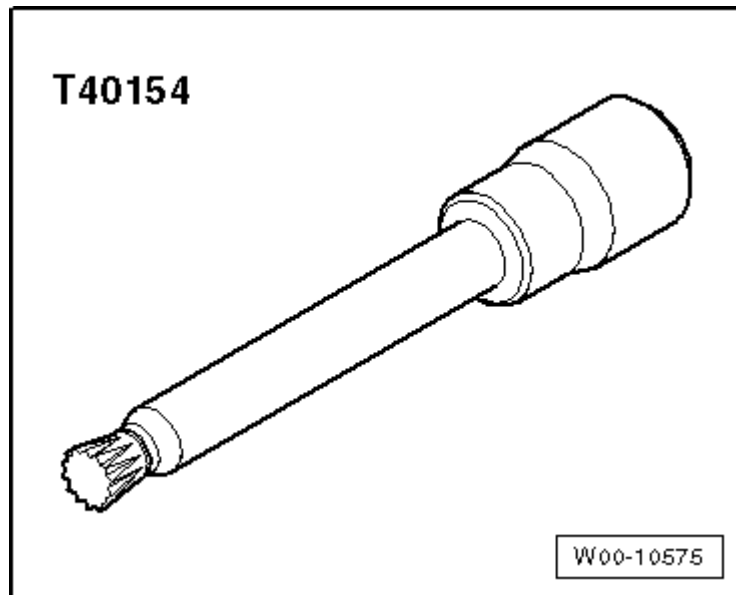


Fig. 113: Socket XZN 12 T40154
Courtesy of AUDI OF AMERICA, LLC

- Assembly Tool T40222/1

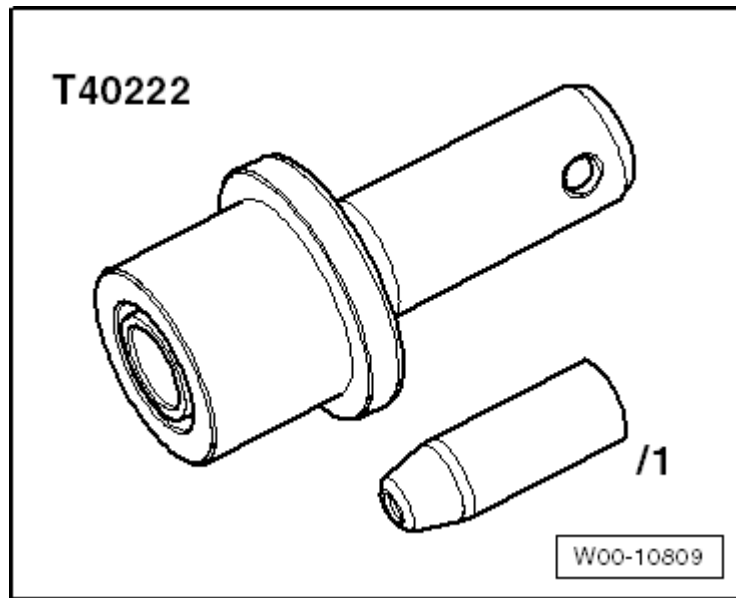


Fig. 114: Assembly Tool T40222
Courtesy of AUDI OF AMERICA, LLC

- Hose Clamp Pliers V.A.G 1275

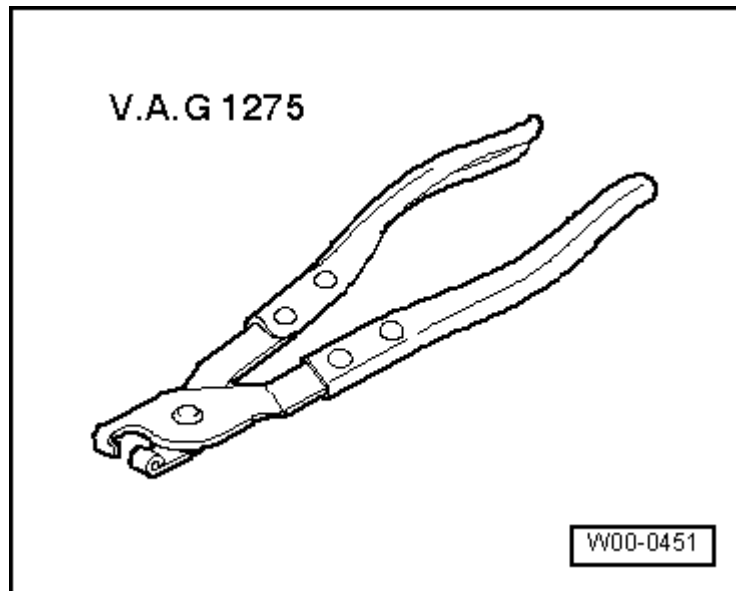


Fig. 115: Hose Clamp Pliers V.A.G 1275
Courtesy of AUDI OF AMERICA, LLC

- Engine-/Gearbox Jack V.A.G 1383 A with Universal Transmission Support V.A.G 1359/2

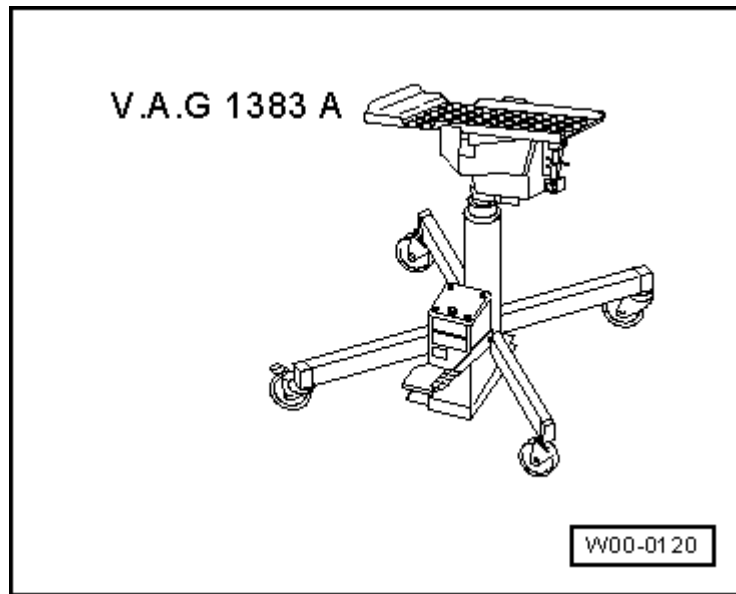


Fig. 116: Engine & Transmission Jack VAG 1383 A
Courtesy of AUDI OF AMERICA, LLC

- Needle Bearing Drift VW 295 A

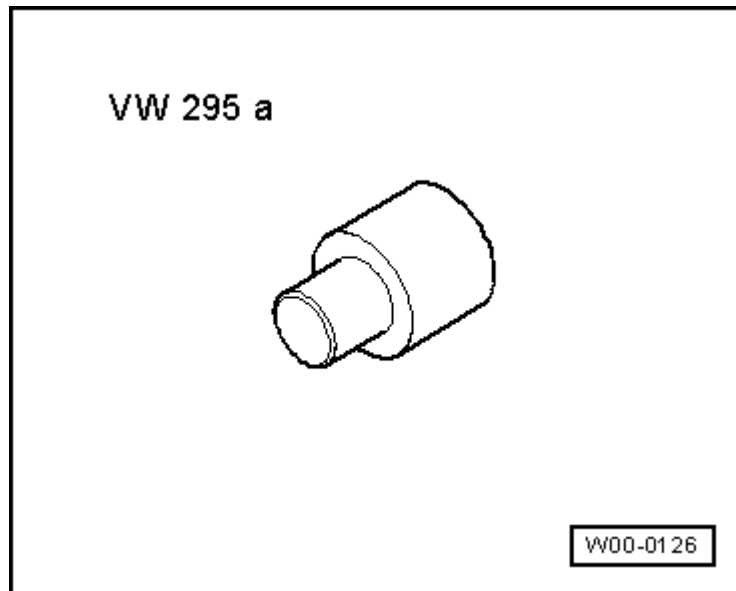


Fig. 117: VW 295 A
Courtesy of AUDI OF AMERICA, LLC

- Puller VW 391

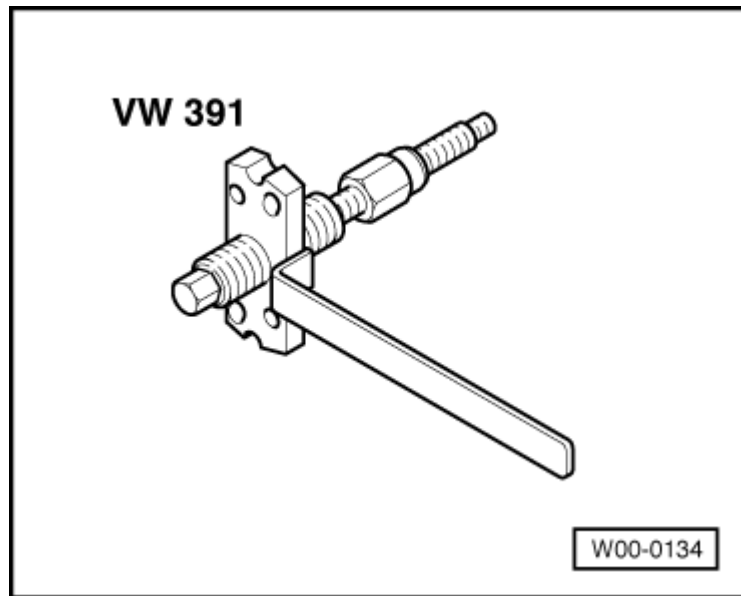


Fig. 118: Puller VW 391
Courtesy of AUDI OF AMERICA, LLC

- Thrust Plate VW 401

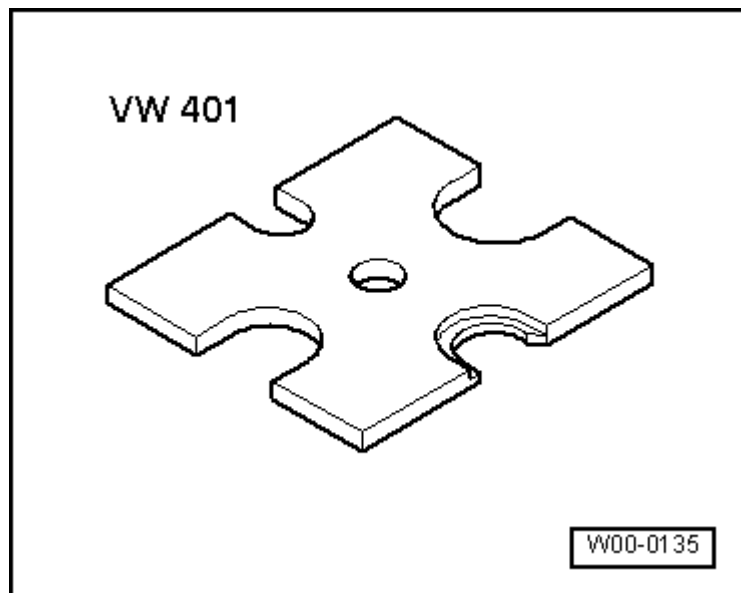


Fig. 119: Thrust Plate VW 401
Courtesy of AUDI OF AMERICA, LLC

- Thrust Plate VW 402

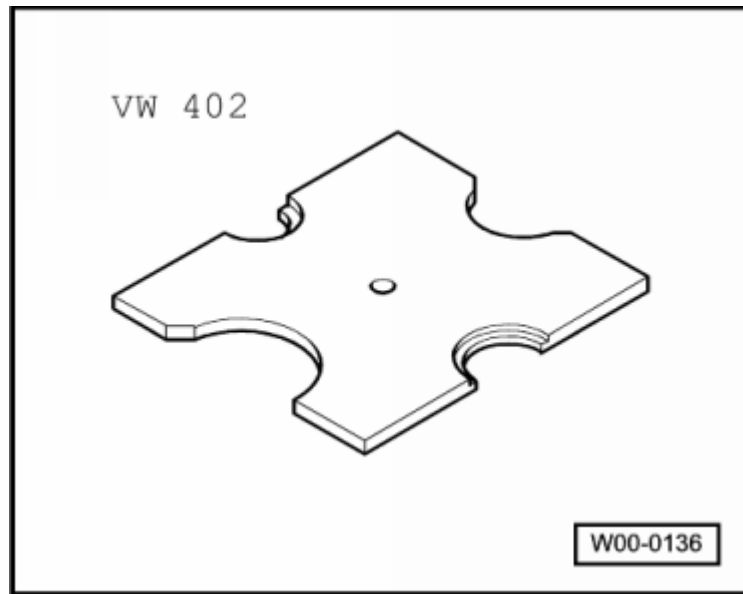


Fig. 120: Thrust Plate VW 402
Courtesy of AUDI OF AMERICA, LLC

- Punch VW 408 A

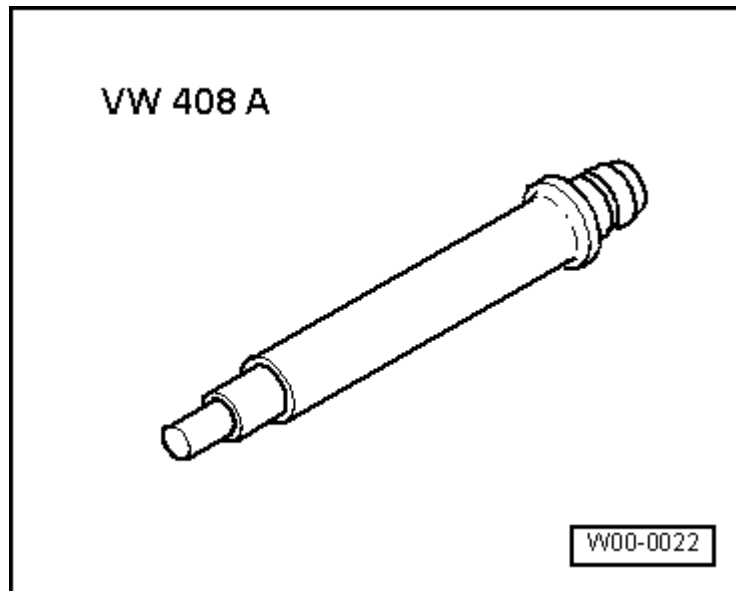


Fig. 121: VW 408 A
Courtesy of AUDI OF AMERICA, LLC

- Thrust Disc VW 412

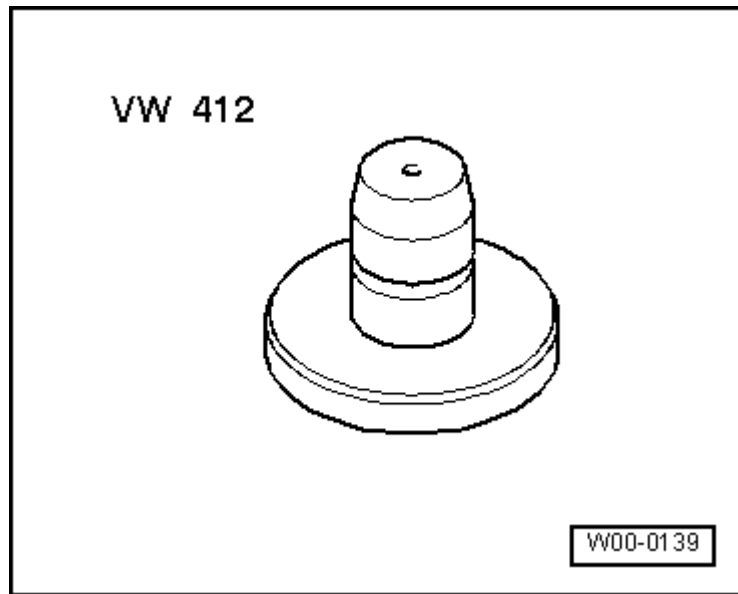


Fig. 122: Punch VW 412
Courtesy of AUDI OF AMERICA, LLC

- Needle Bearing Drift VW 295

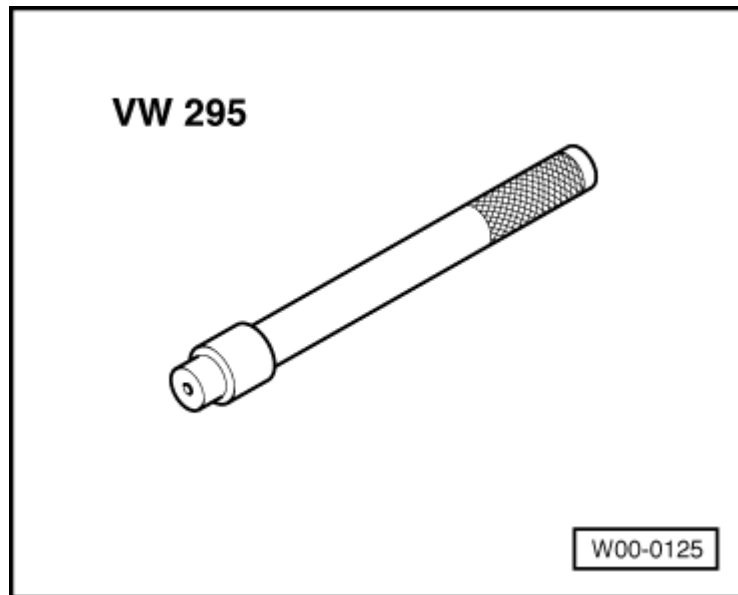


Fig. 123: Drift VW 295
Courtesy of AUDI OF AMERICA, LLC

- Support Channels VW 457

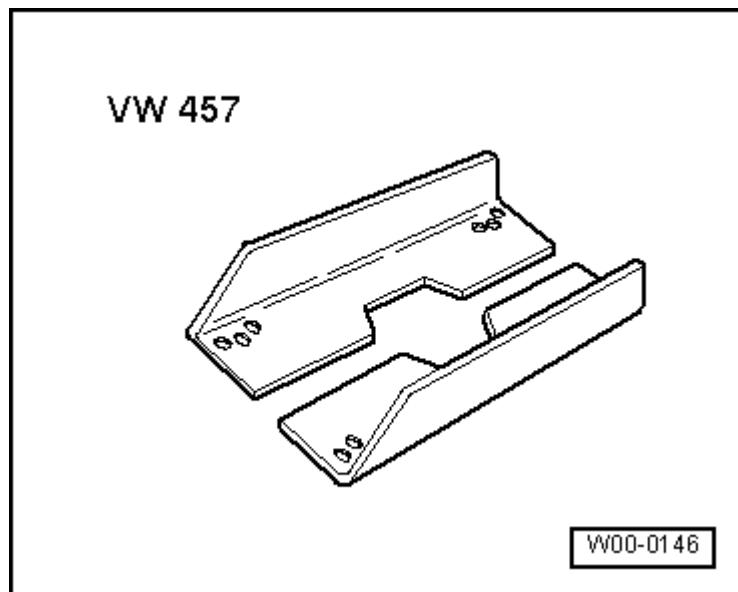


Fig. 124: VW 457

Courtesy of AUDI OF AMERICA, LLC

- Adapter VW 771/40 from the Slide Hammer-Complete Set VW 771

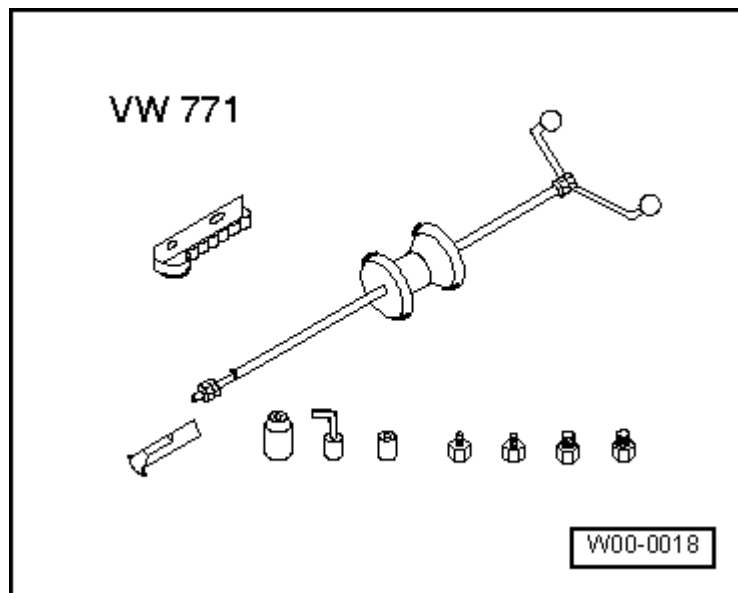


Fig. 125: Identifying Slide Hammer VW 771

Courtesy of AUDI OF AMERICA, LLC

- Transmission Support VW 785/1 B

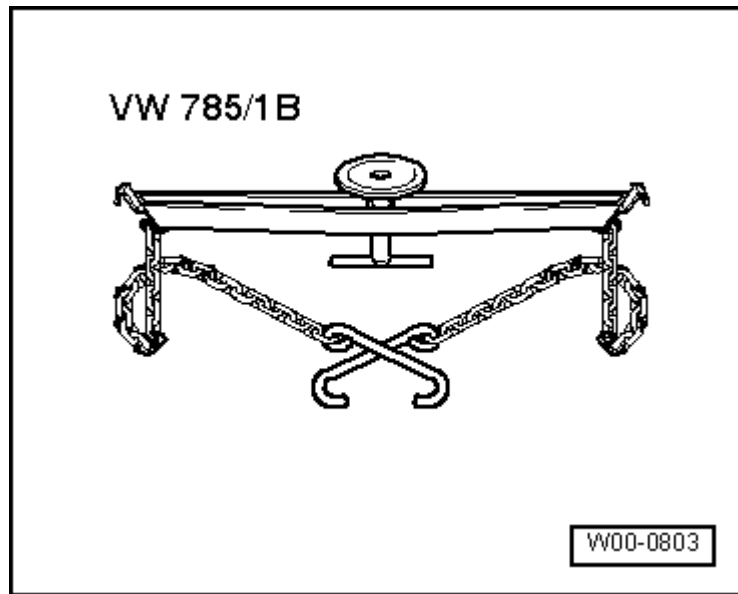


Fig. 126: Transmission Support VW 785/1B
Courtesy of AUDI OF AMERICA, LLC

- Not Illustrated:

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