Service Action **Code: 34H7**



Subject

DSG Gearbox

Release Date

May 01, 2019

Revision Summary

Updated work procedure, torque specifications updated on page 52 for ball joint nuts.

Affected Vehicles

U.S.A. & CANADA: Certain 2017 MY Volkswagen Vehicles

Check Campaigns/Actions screen in Elsa on the day of repair to verify that a VIN qualifies for repair under this action. Elsa is the only valid campaign inquiry & verification source.

- Campaign status must show "open."
- If Elsa shows other open action(s), inform your customer so that the work can also be completed at the same time the vehicle is in the workshop for this campaign.

Problem Description

Over time, affected vehicles may develop gearbox noise due to an insufficient supply of oil within the gearbox.

Corrective Action

Replace the DSG gearbox.

Parts Information

Parts allocation did not occur. Dealers should place orders by VIN for affected vehicles currently in dealer inventory. Dealers scheduling customer vehicle repairs must place their parts order by VIN and ensure that parts are on-hand when the vehicle arrives at the dealership for the scheduled repair appointment.

Code Visibility

On or about May 25, 2017, affected vehicles were listed on the Inventory Vehicle Open Campaign Action report under My Dealership Reports (found on www.vwhub.com & OMD Web). A list was not posted for dealers who did not have any affected vehicles.

On or about May 25, 2017, this campaign code showed open on affected vehicles in Elsa.

On or about May 25, 2017, affected vehicles were identified with this campaign code in the VIN Lookup tool at www.vw.com.

Owner Notification

Owner notification took place in May 2017. Owner letter examples are included in this bulletin for your reference.

Campaign Expiration Date This campaign expires on **December 31, 2020.** Repairs must be performed on or before this date to be eligible for payment. Keep this expiration date in mind when scheduling customers for this action. If a customer wishes to have this service performed after the expiration date, your dealerships normal parts and labor cost associated with this repair will apply.

Additional Information

Please alert everyone in your dealership about this action, including Sales, Service, Parts and Accounting personnel. Contact Warranty if you have any questions.

Dealers must ensure that every affected inventory vehicle has this campaign completed before delivery to consumers.

Fill out and affix Campaign Completion Label (CAMP 010 000) after work is complete. Labels can be ordered at no cost via the Compliance Label Ordering portal at www.vwhub.com.

May 2019

Claim Entry Instructions

After campaign has been completed, enter claim as soon as possible to help prevent work from being duplicated elsewhere. Attach the Elsa screen print showing action <u>open on the day of repair</u> to the repair order.

If customer refused campaign work:

- ✓ <u>U.S. dealers:</u> Submit request via WISE under the *Campaigns/Update/Recall Closure* option.
- ✓ Canada dealers: Fax repair order to Warranty at (905) 428-4811.

		, (===)			
Service Number	34H7				
Damage Code	0099				
Parts Vendor Code	WWO				
Claim Type	Sold vehicle: 7	Sold vehicle: 7 10			
	Unsold vehicle: 7 90				
Causal Indicator	Mark DSG Gearbox as causal part*				
Vehicle Wash/Loaner	Do not claim wash/loaner under this action				
Criteria I.D.	05				
	Replace DSG Gearbox (Passat)				
	Labor operation	n: 3435 19 99	650 T.U.		
	Quantity	Part Number	Description		
	1.00	02E300064Q 00T	DSG Transmission*		
	Per ETKA/ELSA	Per ETKA	All required hardware/fluids per Elsa		
Criteria I.D.	06				
	Replace DSG Gearbox (CC)				
	Labor operation: 3435 20 99 640 T.U.				
	Quantity	Part Number	Description		
	1.00	02E300064R 00Z	DSG Transmission*		
	Per ETKA/ELSA	Per ETKA	All required hardware/fluids per Elsa		
Criteria I.D.	08				
	Replace DSG Gearbox (Jetta)				
	Labor operation: 3435 20 99 640 T.U.				
	Quantity	Part Number	Description		
	1.00	02E300064T 00M	DSG Transmission*		
	Per ETKA/ELSA	Per ETKA	All required hardware/fluids per Elsa		

Continue to next page

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Criteria I.D.	17				
	Replace DSG Gearbox (Golf 4Motion/Alltrack)				
	Labor operation: 3435 19 99 650 T.U.				
	Quantity 1.00	Part Number 0D9300014M 00D	Description DSG Transmission*		
	Per ETKA/ELSA	Per ETKA	All required hardware/fluids per Elsa		
Criteria I.D.	18				
	Replace DSG Gearbox (Golf R)				
	Labor operation	n: 3435 19 99	650 T.U.		
	Quantity 1.00	Part Number 0D9300014Q 00K	Description DSG Transmission*		
	Per ETKA/ELSA	Per ETKA	All required hardware/fluids per Elsa		
Criteria I.D.	19				
	Replace DSG Gearbox (GTI with electronic differential lock)				
	Labor operation: 3435 21 99 610 T.U.				
	Quantity	Part Number	Description		
	1.00	0D9300020N 00B	DSG Transmission*		
	Per ETKA/ELSA	Per ETKA	All required hardware/fluids per Elsa		
Criteria I.D.	27				
	Replace DSG Gearbox (GTI w/o electronic differential lock)				
	Labor operation: 3435 21 99 610 T.U.				
	Quantity	Part Number	Description		
	1.00	0D9300042S 00T	DSG Transmission*		
	Per ETKA/ELSA	Per ETKA	All required hardware/fluids per Elsa		

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Customer Letter Example (USA)

<MONTH YEAR>

<CUSTOMER NAME> <CUSTOMER ADDRESS>

<CUSTOMER CITY STATE ZIPCODE>

This notice applies to your vehicle: <VIN>

Subject: Service Action 34H7 - DSG Gearbox

Certain 2017 Model Year Volkswagen Vehicles

Dear Volkswagen Owner,

As part of Volkswagen's ongoing commitment to customer satisfaction, we are informing you of our decision to conduct a service action on certain 2017 model year Volkswagen vehicles. Our records show that you are the owner of a vehicle affected by this action.

What is the issue? Over time, affected vehicles may develop gearbox noise due to an insufficient supply

of oil within the gearbox.

What will we do? Your authorized Volkswagen dealer will replace the DSG gearbox in your vehicle. This work will take about a day to complete and will be performed for you free of charge.

What should you do? Because your dealer must special order the parts needed to complete this repair on your

vehicle, please call your authorized Volkswagen dealer as soon as possible to schedule this repair. Your dealer will ensure that the correct parts are available at the dealership when you arrive for your scheduled appointment. For your convenience, you can also visit www.vw.com and click on the "Owners" link to locate a dealer near you and schedule

this service online.

Please keep in mind that your dealer may need additional time for the preparation of

the repair, as well as to accommodate their daily workshop schedule.

This service action will be available for you <u>free of charge **only until December 31**, **2020**. If you wish to have this service performed after that date, your dealer's normal</u>

parts and labor cost associated with this repair will apply.

Lease vehicles and address changes

If you are the lessor and registered owner of the vehicle identified in this action, please forward this letter immediately via first-class mail to the lessee within ten (10) days of receipt. If you have changed your address or sold the vehicle, please fill out the enclosed prepaid Owner Reply card and mail it to us so we can update our records.

Can we assist you further?

If your authorized Volkswagen dealer fails or is unable to complete this work free of charge within a reasonable time, or if you should have any questions about this communication, please reach out to us using your preferred method of communication at www.vw.com/contact or by calling 1 800-893-5298. Our phone team is available Monday through Friday from 8AM to 10PM EST and Saturday from 9AM to 5PM EST.

Checking your vehicle for open Recalls and Service Campaigns

To check your vehicle's eligibility for repair under this or any other recall/service campaign, please click on the *Look Up Recalls* link at www.vw.com and enter your Vehicle Identification Number (VIN) into the *Recall/Service Campaign Lookup* tool.

We apologize for any inconvenience this matter may cause; however we are taking this action to help ensure your vehicle continues to meet and exceed your expectations.

Sincerely,

Volkswagen Customer Protection

Customer Letter Example (CANADA)

<MONTH YEAR>

<CUSTOMER NAME>
<CUSTOMER ADDRESS>
<CUSTOMER CITY STATE ZIPCODE>

This notice applies to your vehicle: <VIN>

Subject: Service Action 34H7 – DSG Gearbox

Certain 2017 Model Year Volkswagen Vehicles

Dear Volkswagen Owner,

As part of Volkswagen's ongoing commitment to customer satisfaction, we are informing you of our decision to conduct a service action on certain 2017 model year Volkswagen vehicles. Our records show that you are the owner of a vehicle affected by this action.

What is the issue? Over time, affected vehicles may develop gearbox noise due to an insufficient supply

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What will we do? Your authorized Volkswagen dealer will replace the DSG gearbox in your vehicle. This

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What should you do? Because your dealer must special order the parts needed to complete this repair on your

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Can we assist you further?

If your authorized Volkswagen dealer fails or is unable to complete this work free of charge within a reasonable time, please contact Customer Relations, Monday through Friday from 8AM to 8PM EST by phone at 1-800-822-8987 or via our "Contact Us" page at www.vw.ca.

We apologize for any inconvenience this matter may cause; however we are taking this action to help ensure your vehicle continues to meet and exceed your expectations.

Sincerely,

Volkswagen Customer Protection



U NOTE

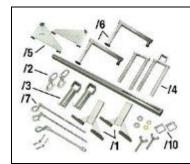
Damages resulting from improper repair or failure to follow these work instructions are the dealer's responsibility and are not eligible for reimbursement under this action.

Required Parts

<u>Criteria</u>	Quantity	Part Number	Part Description
05		02E300064Q 00T	DSG Transmission
06		02E300064R 00Z	DSG Transmission
08		02E300064T 00M	DSG Transmission
17	1	0D9300014M 00D	DSG Transmission
18		0D9300014Q 00K	DSG Transmission
19		0D9300020N 00B	DSG Transmission
27		0D9300042S 00T	DSG Transmission
ALL CRITERIA	Per ETKA/ELSA	Per ETKA	All required hardware/fluids per Elsa

Note: Do not use remanufactured parts on new vehicle inventory vehicles.

Required Tools



Engine Support Bridge -10-222A-



Engine Support Bridge -Gearbox Adapter -10-222A/29-



Engine Support Bridge -**Engine Support 18** -10-222A/18-



Engine/Gearbox Support Shackle (2 pc.) -10-222A/12- (quantity 2)



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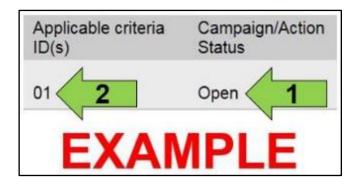
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Repair Instruction

Section A - Check for Previous Repair

i TIP

If Campaign Completion label is present, no further work is required.



• Enter the VIN in Elsa and proceed to the "Campaign/Action" screen.

i TIP

On the date of repair, print this screen and keep a copy with the repair order.

- Confirm the Campaign/Action is open <arrow 1>.
 If the status is closed, no further work is required.
- Note the Applicable Criteria ID <arrow 2> for use in determining the correct work to be done and corresponding parts associated.
- · Proceed to Section B

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Section B - Replace DSG Gearbox, Golf Models (Criteria 17, 18, 19, and 27)



Risk of injury. Refer to "Warning and Safety Precautions", found in Appendix A at the end of this document.

U NOTE

- Due to variations in vehicle equipment and options, the steps/illustrations in this work procedure may not
 identically match all affected vehicles.
- The Golf model is shown for the main body of this work procedure. All models included in this procedure have similar configurations. If necessary, see ELSA for clarification for any steps that differ.



U NOTE

- This procedure contains mandatory replaceable parts. Refer to ETKA and the component overview prior to starting the procedure.
- Review this procedure in its entirety before beginning to verify all parts necessary for the operation are accounted for and on hand before disassembly.
- Discard any mandatory replacement parts as they are removed to avoid confusing new parts with old.

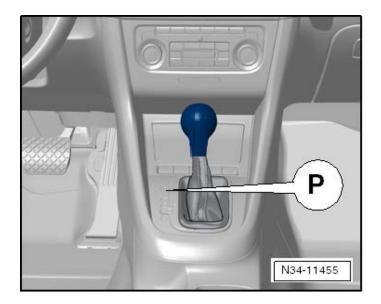
Mandatory Replacement Parts:

- Bolts Engine to transmission connecting
- Bolts Subframe mount
- Bolts Transmission support bracket (if equipped)
- Bolts Drive axle, rear driveshaft (AWD)
- Lock washers Selector mechanism cable
- O-rings Connector
- Nuts Ball joint, tie rod end, stabilizer bar end link

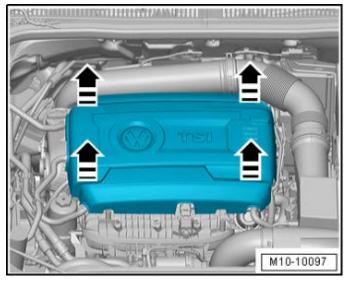
See ETKA for additional details.

The repair information in this document is intended for use only by skilled technicians who have the proper tools, equipment and training to correctly and safely maintain your vehicle. These procedures are not intended to be attempted by "do-it-yourselfers," and you should not assume this document applies to your vehicle, or that your vehicle has the condition described. To determine whether this information applies, contact an authorized Volkswagen dealer. ©2019 Volkswagen Group of America, Inc. and Volkswagen Canada. All Rights Reserved.

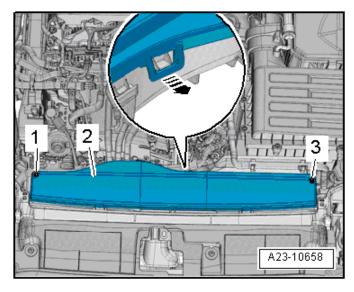
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- Move the selector lever to park <P>.
- Lift the vehicle from all four mounts from lifting platform at the same height.



 Carefully pull the engine cover off the bolts one after the other in direction of <arrows>. Do not remove the engine cover on one side or in a jerking manner.

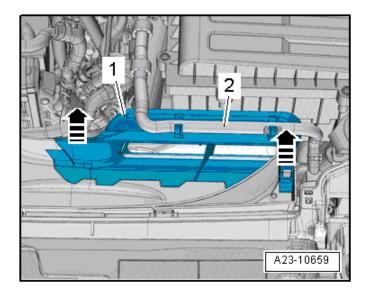


Air filter housing, removing:

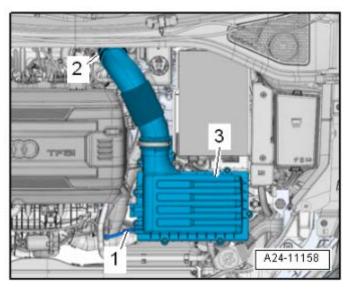
- Remove the bolts <1 and 3>.
- Open the lock in direction of <arrow> and remove the cover <2>.

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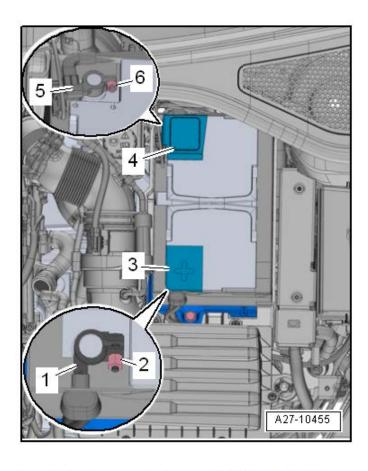


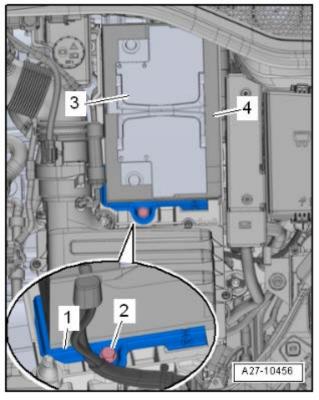
- Free up the coolant hose <2>.
- Release the locking mechanism in direction of <arrows> and remove the air guide upper section <1>.



- Disconnect the vacuum hose <1>.
- Loosen the clamp <2> and remove the air guide hose.
- Carefully remove the air filter housing <3>.

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Battery removing, underhood batteries:

- Turn off the ignition and all electrical equipment.
- Remove the ignition key, if equipped.
- Open the heat protection sleeve cover.
- Open the cover <4> over the battery negative terminal.
- Loosen the nut <6> a few turns and disconnect the battery ground cable terminal clamp <5> from the battery negative terminal.
- Open the cover <3> over the battery positive terminal.
- Loosen the nut <2> several turns and remove the battery positive cable terminal <1> from the battery positive terminal.
- Pull the heat protection sleeve <4> slightly upward.

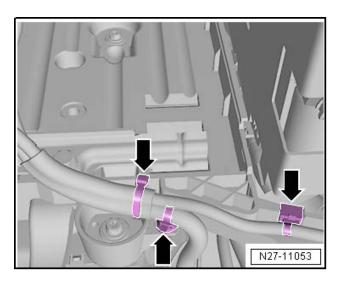
U NOTE

For vehicles with trunk mounted batteries, disconnect and isolate the negative terminal before proceeding with this repair. It will not be necessary to remove trunk mounted batteries.

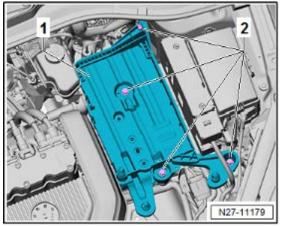
- Remove the bolt <2> from the bracket <1>.
- Remove the bracket <1>.
- Remove the battery <3> in the direction of travel from the battery tray and lift it upward out of the engine compartment.

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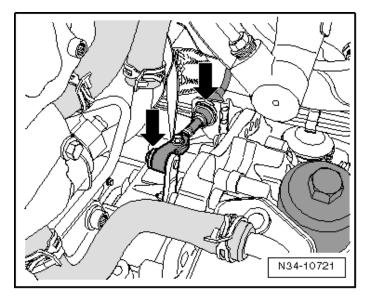
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 Free up the wiring harness from the battery tray <arrows>.



- Remove the bolts and nut <2>.
- Remove the battery tray <1>.

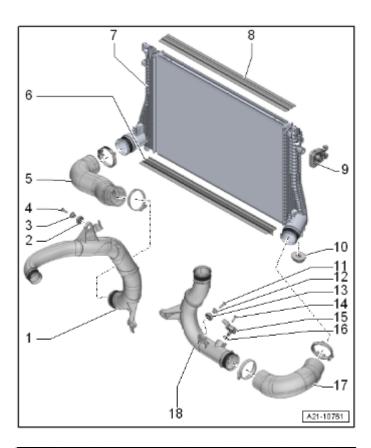


 Remove the selector lever cable from the transmission <arrows>.

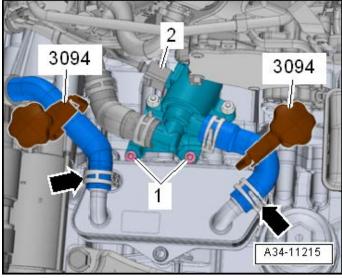
U NOTE

- Use pliers to remove the lock washer from the cable bracket. Do not use a sharp-edged lever or the selector lever cable could get damaged.
- Risk of damaging the selector lever cable.
 Do not bend or kink the selector lever cable.

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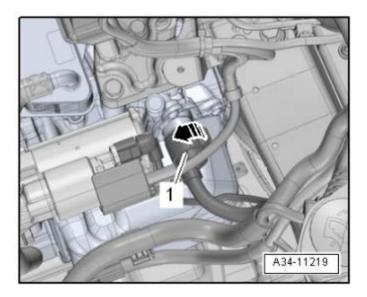


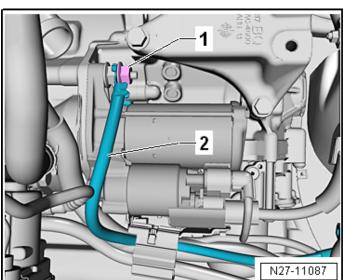
 Remove the charge air pipe with the charge air hose <1 and 5> by disconnecting the fastener <4> and removing the clamps.



- Clamp the coolant hoses going to the transmission oil cooler with the -3094- hose clamps.
- Loosen the hose clamps <arrows> and remove the coolant hoses from the transmission fluid cooler.
- Remove the bolts <1> and move the Transmission Coolant Valve -N488- to the side.
- Seal off the transmission fluid cooler connections with suitable sealing plugs taken from the -VAS6122-.

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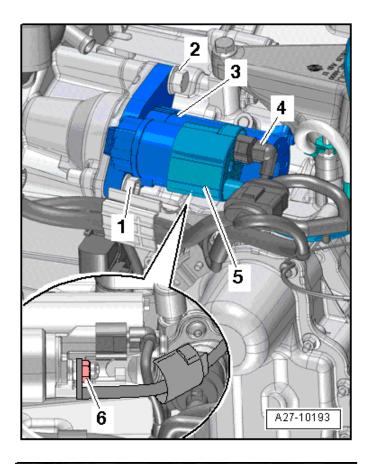


U NOTE

There is a risk of damaging the DSG Transmission Mechatronic -J743- with static electricity. Do not touch contacts in DSG Transmission Mechatronic -J743- connector with hands.

- Discharge static electricity before disconnecting the DSG Transmission Mechatronic -J743- connector. To discharge any static electricity, touch the vehicle ground with hand (without wearing a glove).
- Release the connector twist lock <1> for the Mechatronic by turning it counter-clockwise (in the direction of the starter) and remove the connector.
- Remove the nut <1> from the upper bolt of the Starter.
- Remove the ground cable <2>.

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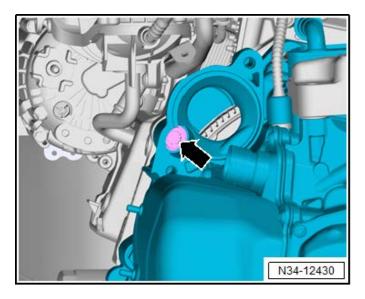


- Disconnect the connector <4>.
- Remove the cap <5>.
- Remove the nut <6> and terminal 30/B+.
- Remove the starter bolts <1 and 2>. Remove the lower bolt <1> first.
- Remove the starter <3> upward.



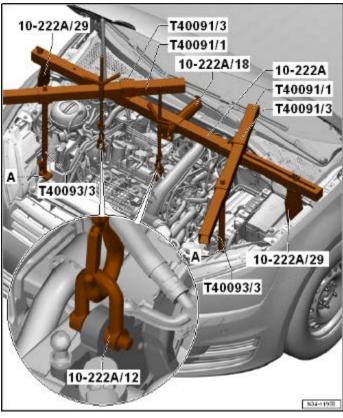
 Remove all upper engine/transmission connecting bolts. Use the -T10179- as necessary.

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U NOTE

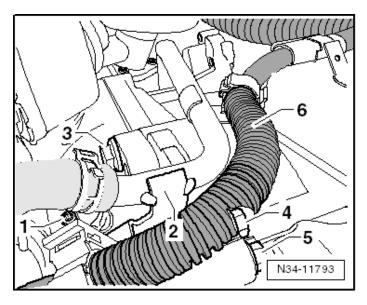
One bolt is located inside the hole for the starter <arrow>. Use -T10061- to remove the bolt.



For Golf Models (Criteria 17, 18, 19, and 27):

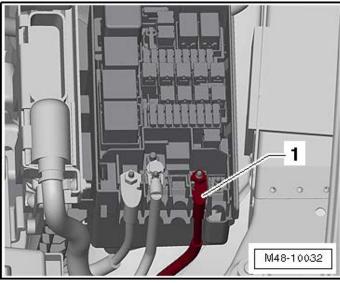
- Attach the -10-222A- Engine Support Brace as shown.
- See ELSA for additional details.

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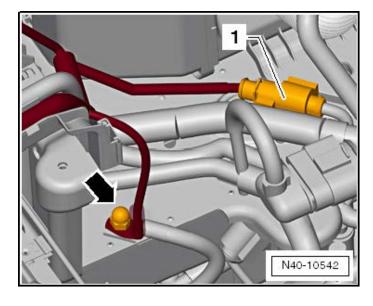
For Passat Models (Criteria 05):

- Remove the bolt <1> for the lower side coolant pipe <2> on the engine and tie up the coolant pipe.
- Remove the connecting bolts <3, 4, and 5> from the engine on the transmission.
- Free up the front wire <6> on the transmission.



For Passat and Jetta Models (Criteria 05 and 08):

Disconnect the wire <1> from the E-box.

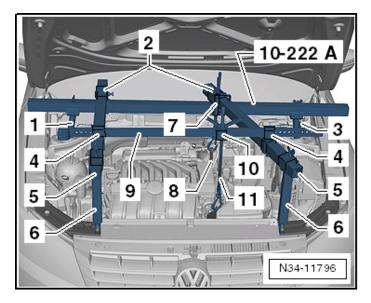


For Passat and Jetta Models (Criteria 05 and 08):

- Disconnect the connector <1>.
- Remove the cap nut <arrow> and disconnect the ground wire.
- Remove the wiring harness from the bracket on the longitudinal member so that it can be removed together with the steering gear.

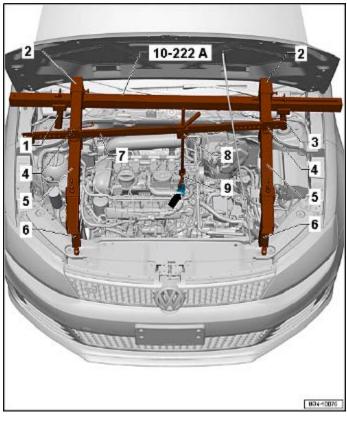
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For Passat Models (Criteria 05):

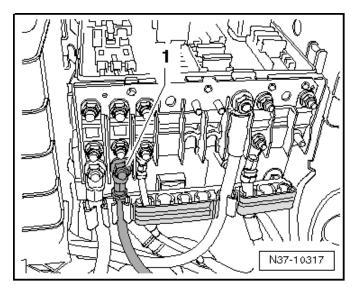
- Attach the -10-222A- Engine Support Brace as shown.
- See ELSA for additional details.



For Jetta Models (Criteria 08):

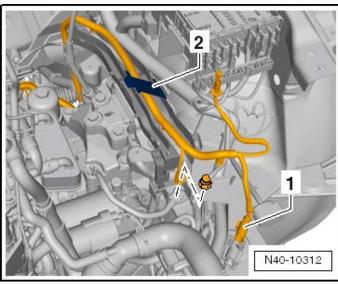
- Attach the -10-222A- Engine Support Brace as shown.
- · See ELSA for additional details.

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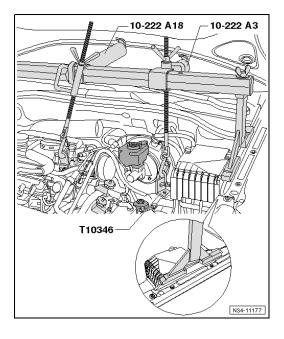
For CC Models (Criteria 06):

 Remove the nut <1> for the electronic power steering gear feed and remove the wire from the E-box.



For CC Models (Criteria 06):

- Disconnect the connector <1>.
- Remove the cap nut and ground cable
- Open the cover <2>
- Remove the wiring harness from the bracket on the longitudinal member so that it can be removed together with the steering gear.



For CC Models (Criteria 06):

- Attach the -10-222A- Engine Support Brace as shown.
- See ELSA for additional details.

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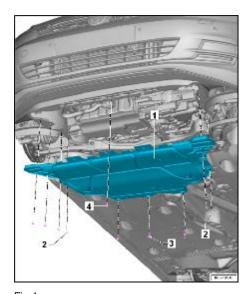


Fig 1

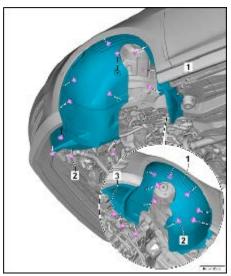
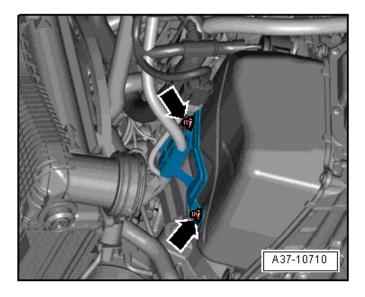


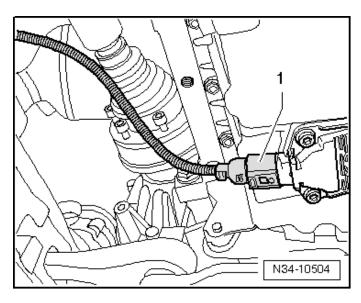
Fig 2



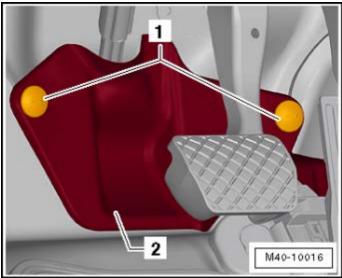
- Remove the underbody noise insulation <1> (Fig 1).
- Remove the left front inner fender liner <1> (Fig 2).

- Remove the wires and the bracket from the front oil pan <arrows> (two M6 nuts).
- Route the wires near the transmission fluid pan upward and tie them secure.

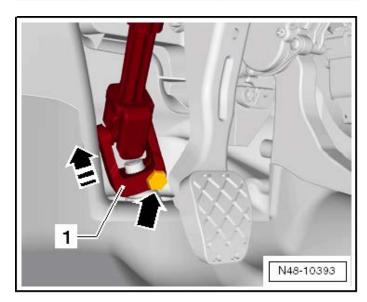
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 If equipped, disconnect the connector <1> from the Oil Level Thermal Sensor -G266-.



 Remove fasteners <1> and remove the footwell trim panel <2>.



- Verify the steering wheel is in the centered and locked position.
- Remove the bolt <arrow> from the universal joint <1>. Then remove the universal joint in direction of <arrow>.

A CAUTION

If the universal joint is separated from the electromechanical steering gear, the following work cannot be performed:

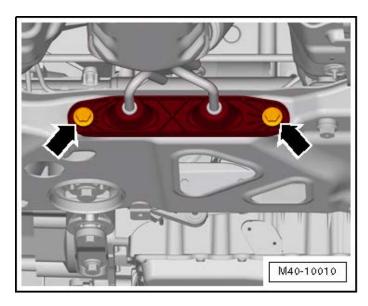
- · Ignition switched on.
- Turning the steering gear.
- Turning the steering column.

These points must be observed, because otherwise it can cause irreparable damage.

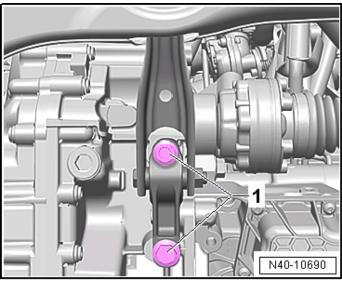
Only remove the universal joint with the steering wheel in the centered and locked position.

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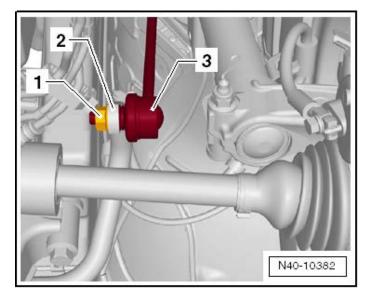
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• Remove the exhaust system bracket from the subframe <arrows>.

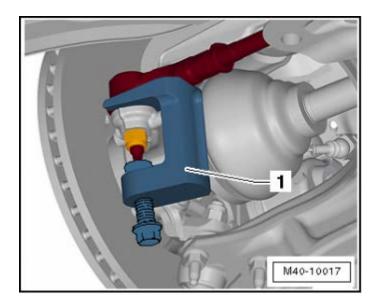


 Remove the pendulum support bolts <1> from the transmission.

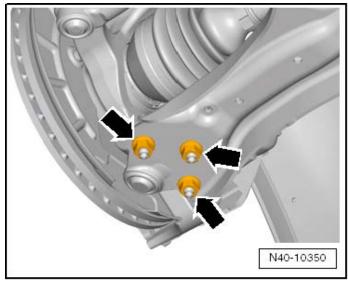


- Remove the hex nut <1> from the right and left coupling rod <3>.
- Remove the coupling rod <3> from the stabilizer bar <2> on the left and right sides.

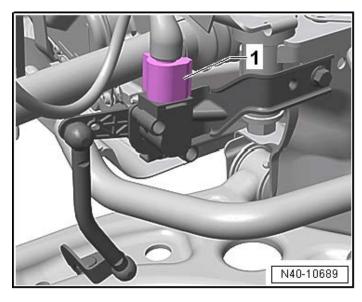
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- · Remove tie rod end nut.
- Remove the tie rod end from the wheel bearing housing using tool -T10187-.



 Remove the ball joint nuts <arrows> on the left and right side of the vehicle.



For Vehicles with Level Control System Sensor:

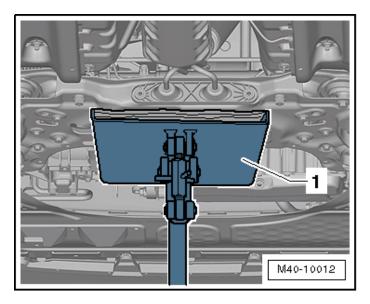
 Disconnect the connector <1> from the Left Front Level Control System Sensor -G78and/or Right Front Level Control Sensor -G289-.



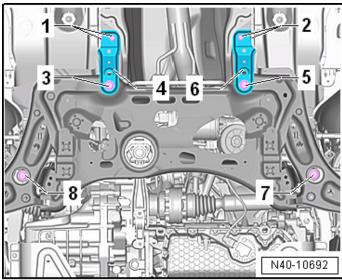
Note the installation position of the Level Control System Sensor. Do not bump or bend the sensor or mounting bracket while removing the subframe.

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 Position the -VAS6931- Engine and Gearbox Jack under the subframe.



3 4 6 5 ... 8 7 N40-10692

For Golf Models (Criteria 17, 18, 19, and 27):

A CAUTION

- When locating the subframe, the locating pins (-T10486-) must be installed one at a time. Do not remove the next subframe bolt until the locating pin is installed.
- The -T10486- may only be tightened to a maximum of 20 Nm, otherwise the threads of the locating bolts will be damaged.
 - Remove bolt <3> and install -T10486-.
 - Remove bolt <5> and install -T10486-.
 - Remove bolt <7> and install -T10486-.
 - Remove bolt <8> and install -T10486-.

For Golf Models (Criteria 17, 18, 19, and 27):

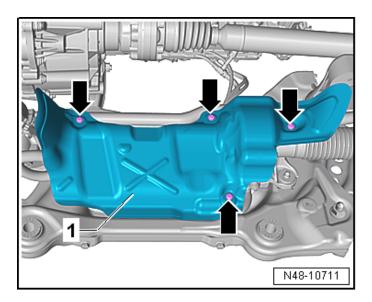
- Once the subframe is secured, remove the four bolts <1 and 2> from the subframe support brackets.
- Slowly lower the subframe using the -VAS6931-.

U NOTE

Lower the subframe just enough to allow access to the fasteners on the heat shield covering the steering gear, to be removed in the next step.

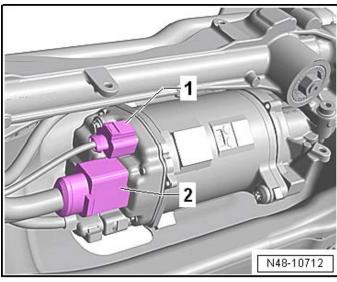
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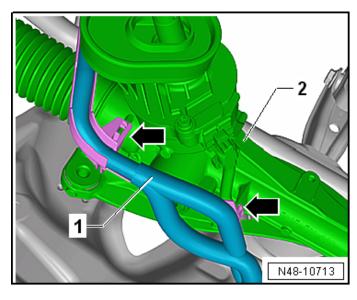
For Golf Models (Criteria 17, 18, 19, and 27):

 Remove the bolts <arrows> and remove the heat shield <1> from the steering gear.



For Golf Models (Criteria 17, 18, 19, and 27):

 Disconnect the connectors <1 and 2> from the steering gear.

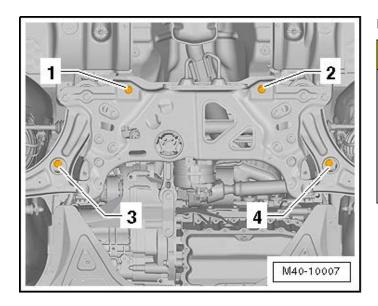


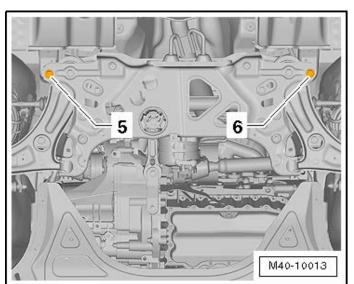
For Golf Models (Criteria 17, 18, 19, and 27):

- Unclip the wiring harness <1> from the steering gear <2> <arrows>.
- Once free of all wiring and harness connections, lower the subframe the remainder of the way.

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For Passat, and Jetta Models (Criteria 05 and 08):

A CAUTION

- When locating the subframe, the locating pins (-T10452- and -T10096-) must be installed one at a time. Do not remove the next subframe bolt until the locating pin is installed.
- The -T10452- and -T10096- may only be tightened to a maximum of 20 Nm, otherwise the threads of the locating bolts will be damaged.
 - Remove bolt <3> and install -T10452-.
 - Remove bolt <4> and install -T10452-.
 - Remove bolt <1> and install -T10096-.
 - Remove bolt <2> and install -T10096-.

For Passat and Jetta Models (Criteria 05 and 08):

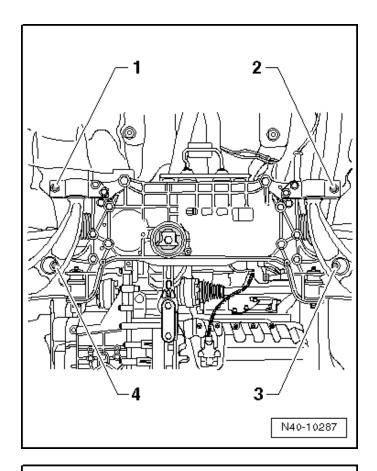
 Remove the bolts <5> and <6> and slowly lower the subframe using the -VAS6931-.

A CAUTION

Use caution when lowering the subframe that all electrical connectors, wiring, hoses, etc. are clear from interference.

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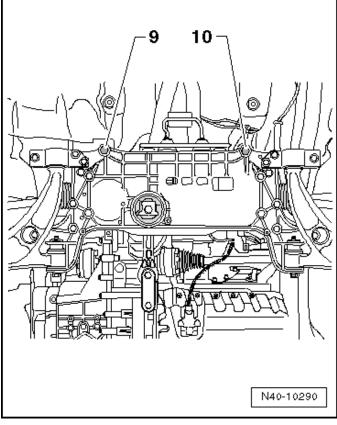
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For CC Models (Criteria 06):

A CAUTION

- When locating the subframe, the locating pins (-T10096-) must be installed one at a time. Do not remove the next subframe bolt until the locating pin is installed.
- The -T10096- may only be tightened to a maximum of 20 Nm, otherwise the threads of the locating bolts will be damaged.
 - Remove bolt <3> and install -T10096-.
 - Remove bolt <4> and install -T10096-.
 - Remove bolt <1> and install -T10096-.
 - Remove bolt <2> and install -T10096-.



For CC Models (Criteria 06):

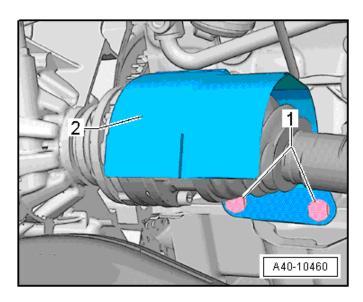
• Remove bolts <9 and 10> and slowly lower the subframe using the -VAS6931-.



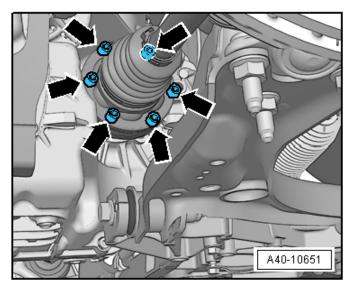
Use caution when lowering the subframe that all electrical connectors, wiring, hoses, etc. are clear from interference.

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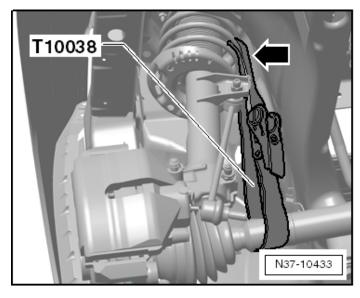
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• If installed remove the bolts <1> and the heat shield <2>.

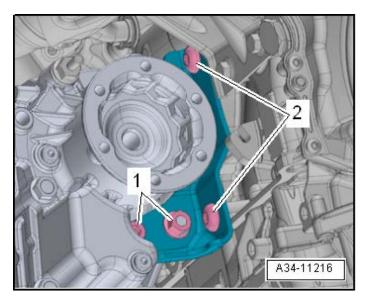


 Loosen the bolts <arrows> and remove the drive axles from the transmission flange on both sides.

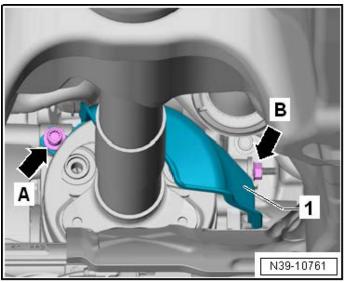


 Secure the drive axles to the suspension strut using a -T10038-.

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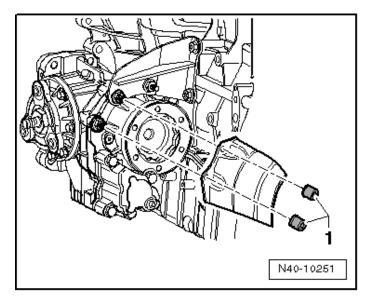


• If equipped, remove the bolts <1 and 2> and transmission support bracket.



For vehicles with all-wheel drive:

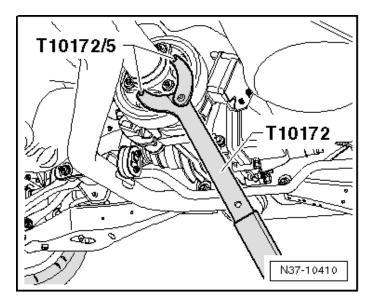
 Remove the bolts <A and B> from the bevel box and remove the heat shield <1>.



For vehicles with all-wheel drive:

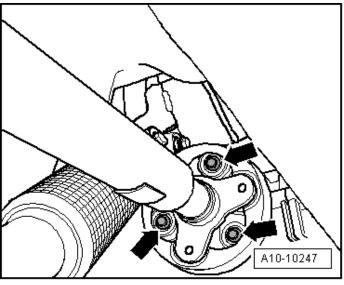
 If equipped, remove the nuts <1> and the heat shield.

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For vehicles with all-wheel drive:

 To loosen or tighten, counterhold the driveshaft on the rear final drive using -T10172-.

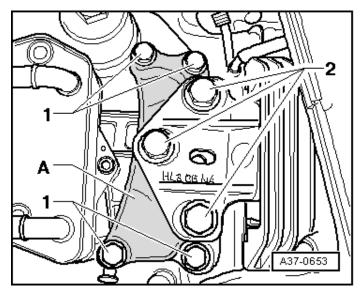


For vehicles with all-wheel drive:

- Remove the three bolts <arrows> securing the driveshaft coupling to the bevel box, as shown.
- Push the front driveshaft all the way back and tie it up using a -T10038-.

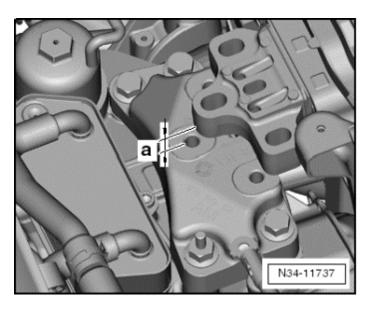


Do not remove the bolts attaching the driveshaft to the flexible coupling. Remove the flexible coupling with the driveshaft attached from the bevel box.

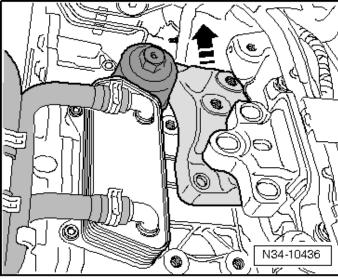


• Remove the bolts <1 and 2> from the transmission bracket <A>.

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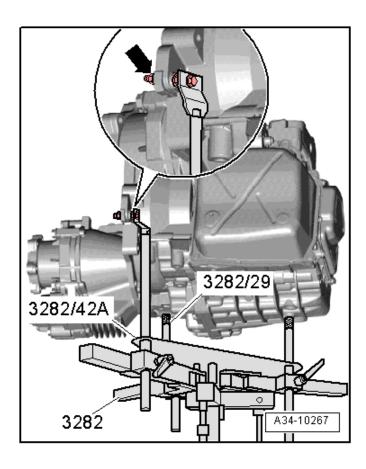


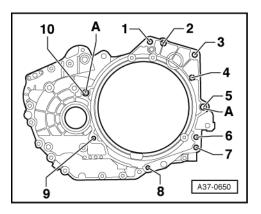
• Lower the engine/transmission approximately 50 mm using the spindles on the -10-222A-.



Remove the transmission bracket in the direction of <arrow>.

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- To remove the transmission, the -3282- is equipped with the -3282/42A- and positioned on the -VAS6931-.
- Align the arms of the transmission support so that they match up with the holes in the -3282/42A-.
- Install the mounting element as illustrated on the -3282/42A-.
- Place the -VAS6931- under the vehicle.
- The arrow symbol on the 3282/42A- points in the direction of travel.
- Align the -3282- so that it is parallel to the transmission.
- Install the -3282/29- in the transmission.
- Secure both the other support elements to the transmission as shown.

U NOTE

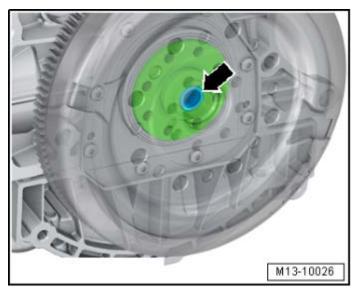
- Contrary to the illustration of the adjusting plate, the front support element is shown attached to the transmission with an M10 x 50 mm bolt <arrow>. Install a M12 bolt between the mount and the transmission housing.
- DSG® transmission 02E "AWD" is shown in the illustration. The support elements on other transmissions are identical.
- Support the transmission by lifting it from underneath using the -VAS6931-.
- The transmission is disconnected from the engine in this position.
- Remove the remaining engine/transmission connecting bolts <8, 9, and 10> and any other fasteners not previously removed.
- Remove the transmission from the engine while being careful not to damage the selector lever cable and lower the transmission.
- Verify all wiring and hose connections are free and clear of the transmission before lowering.
- Remove the transmission from the engine (alignment sleeves). Tilt the transmission to the left by adjusting the spindle on the -3282-.
- Slightly turn and lower the transmission.



Pay attention to all of the lines when lowering the transmission.

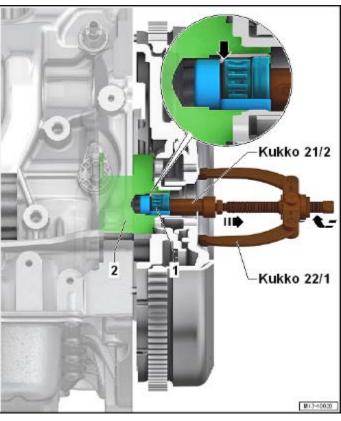
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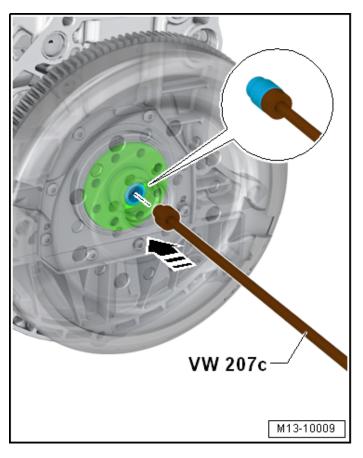
- Always replace the needle bearing in the crankshaft <arrow> after separating the engine and transmission.
- If the needle bearing in the crankshaft is damaged, the gears will no longer shift correctly.
- The front edges of the internal puller must not be broken off.



Remove Needle Bearing:

- Remove the needle bearing <1> from the crankshaft <2> using a standard internal puller such as the Puller Kukko Internal 14-19mm -21/2- and counter support Puller Kukko Counterstay -22/1- (superseded to VAS251621, or equivalent).
- The internal puller must be positioned behind the needle ring <arrow>.

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Install Needle Bearing:

- Clean the bearing seat in the crankshaft and thinly coat with grease.
- Drive the needle bearing into the crankshaft up to the installation depth using the Bearing Installer - Bearing Press Piece -VW207C-.

Installation Depth Dimension = 2.0 mm



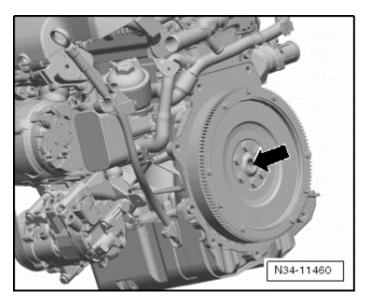
• Installation Depth Dimension <a> = 2.0 mm



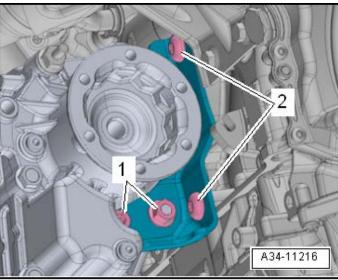
If the needle bearing was unintentionally pushed in too deeply it must be replaced. The needle bearing will be damaged if it is removed again. Do not reuse a needle bearing that has been removed from the crankshaft.

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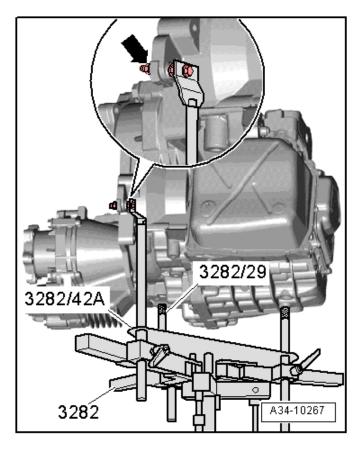


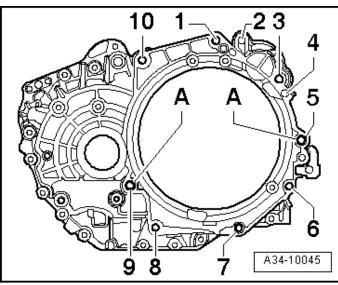
- Transmission pins (not splines) must be lightly lubricated.
- Make sure both alignment sleeves between the engine and the transmission are correctly seated.
- Make sure the intermediate plate is seated correctly.



- If equipped, remove the transmission support bracket from the old transmission and install it on the new transmission.
- Replace the bolts with new. Install the new bolts a few turns and leave the bracket loose to allow freedom of movement of the bracket during installation.

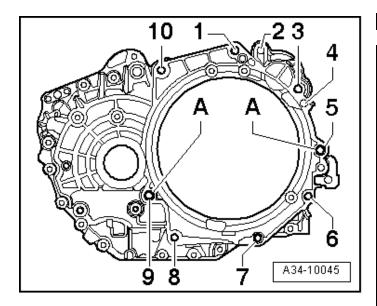
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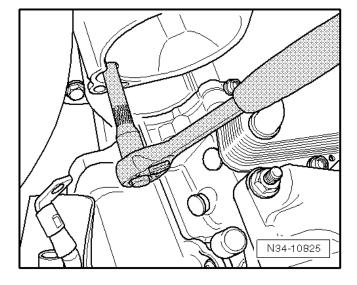


- Place the transmission with the -3282- on the -VAS6931-.
- Place the -VAS6931- under the vehicle. The arrow symbol on the - 3282/42A- points in the vehicle direction of travel.
- Tilt the transmission to the left by adjusting the spindles on the -3282-. Then lift the transmission.
- Pay attention to the selector lever cable when lifting the transmission. Guide the cable into the cable bracket as early as possible.
- The cable is not lubricated.
- Guide the engine and transmission together by hand until the engine flange and transmission flange come into contact with one another all around.
- Adjust the transmission support until the engine and transmission are aligned.
- Turn the crankshaft slightly if necessary.
- Be careful not to get any lines caught when installing the transmission.
- Install and tighten bolts <5 to 9> first by hand, then tighten to specifications. See Chart in next step for bolt locations and torque specifications.
- After the transmission is bolted to engine at the bottom, remove the -3282- from the transmission.
- Install and tighten the upper bolts and all other remaining fasteners first by hand <1, 3, and 10> of the engine/transmission. See Chart in next step for bolt locations and torque specifications.

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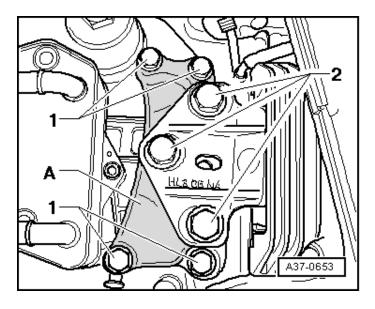
Item	Bolt	Nm
1	M12 x 55	80 Nm (with tool –
		18mm T10179 65
		Nm)
2	M10 x 45	40 Nm
	(Starter to	
	Transmission)	
3	N12 x 55	80 Nm
	(is accessible only	
	through opening in	
	the removed starter	
4	M10 x 45 (or) M10 x	40 Nm
	40	
	(Starter to	
	Transmission)	
5	M12 x65 (or) M12 x	80 Nm
	70	
6	M10 x 50	40 Nm
7	M10 x 50	40 Nm
8	M10 x 50	40 Nm
9	M12 x 65 (or) M12 x	80 Nm
	70 (or) M12 x 80	
10	M12 x 55	80 Nm (with tool –
		18mm T10179 65
		Nm)
Α	Alignment Sleeves for Centering	



• NOTE

One bolt is located inside the hole for the starter <arrow>. Use -T10061- to reinstall the bolt.

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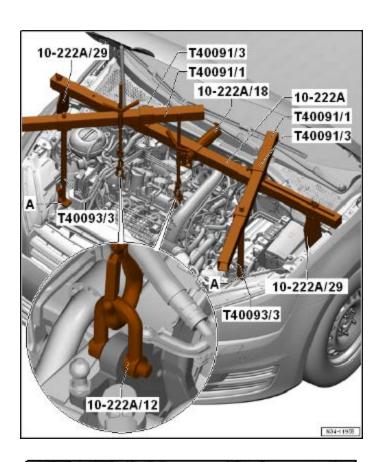
- Align the engine/transmission assembly without tension.
- Install the left transmission mount as follows:
 - Replace all the bolts <1 and 2>.
 - Install the new bolt first hand-tight.
 - Install the bolts <1> in the transmission bracket <A>.
- Align the engine/transmission in its installation position. To do so, lift it until the transmission bracket is completely touching the transmission mount.
- Pry the transmission bracket <A> into the seat using a screwdriver while tightening the bolts <2>.
- Tighten the bolts <2> to 60 Nm + 90° turn. Tighten the bolts <1> to 40 Nm + 90° turn.

① NOTE

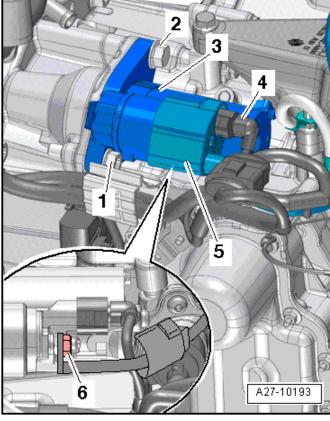
- There is a risk of damaging the threads in the transmission bracket by inserting the bolts at an angle.
- Before installing the bolts <2>, the transmission bracket and transmission mount support arm must be absolutely parallel to each other. If necessary, lift the back of the transmission using the Engine and Gearbox Jack.

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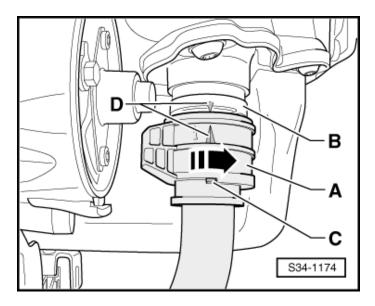


 Remove the -10-222A- engine support brace for all vehicles. (Golf shown)

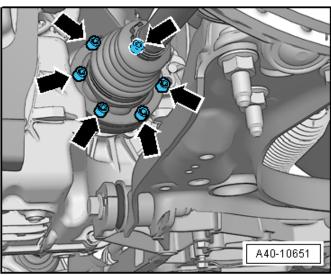


 Reinstall the starter <3>. Tighten the bolts <1 and 2> to 40Nm, and reconnect electrical connections <4 and 6> to the starter.

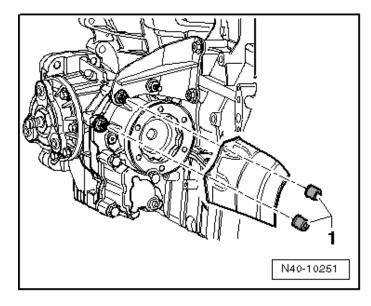
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- Connect the connector <A> from the DSG Transmission Mechatronic -J743- as follows:
 - The arrow <D> on the Mechatronic
 B> must line up with the connector
 A> as well as with the tab <C>.
 - Connect the connector <A> carefully all the way and then turn the lock clockwise in the direction of <arrow>.



- Attach the drive axles to the transmission.
- Install new bolts. Follow the tightening specifications below based on application:
 - Internal Multipoint Bolt M8 x 48: First tighten diagonally to 10 Nm, then tighten diagonally again to 40 Nm.
 - Internal Multipoint Bolt M10 x 52: First tighten diagonally to 10 Nm, then tighten diagonally again to 70 Nm.

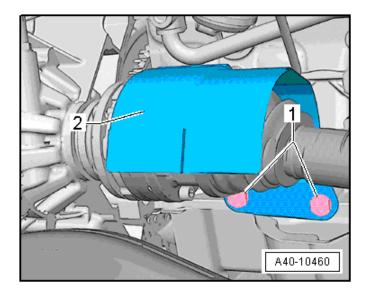


For vehicles with all-wheel drive:

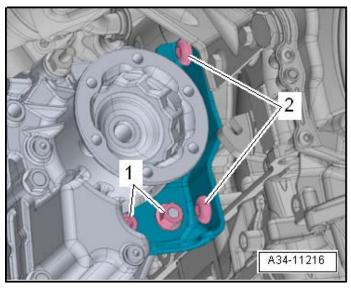
- If equipped, reinstall the nuts <1> and the heat shield.
- Tighten the heat shield nuts <1> to 20 Nm.

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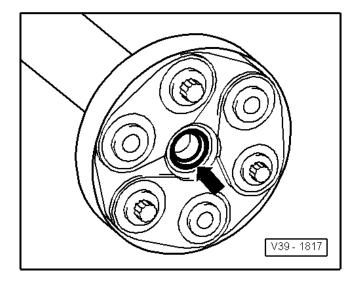


- If equipped, reinstall the bolts <1> and the heat shield <2>.
- Tighten the heat shield bolts <1> to 25 Nm.



For vehicles with all-wheel drive:

- New bolts <1 and 2> should be installed.
- Hand-tighten all bolts first, starting with bolts <1>, then bolts <2>, in sequence.
- Follow the installation and tightening sequence:
 - First hand tighten bolts <1>: Tighten the bolts to 40 Nm.
 - Then hand tighten bolts <2>: Tighten the bolts to 40 Nm.

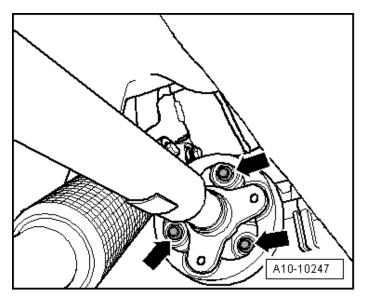


For vehicles with all-wheel drive:

 Insert the driveshaft with the flexible disc on the bevel box flange shaft. When positioning, make sure that the seal <arrow> in the centering bushing is not damaged.

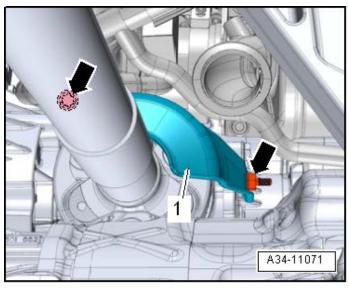
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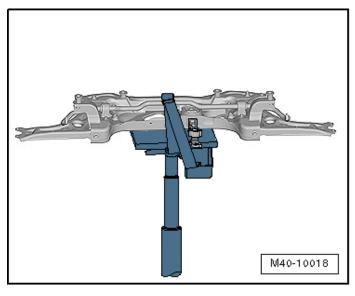
For vehicles with all-wheel drive:

 Attach the driveshaft to the bevel box flange and install the bolts <arrows>. Tighten the bolts to 50 Nm + 90°.



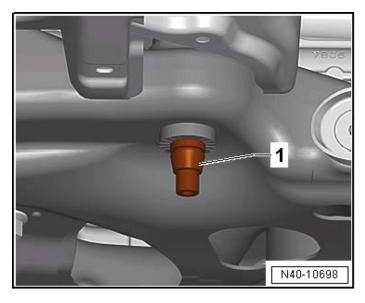
For vehicles with all-wheel drive:

- Attach the bevel box heat shield <1>.
- Tighten the lower bolt with the threaded stud to 40 Nm.
- Tighten the upper bolt to 20 Nm.

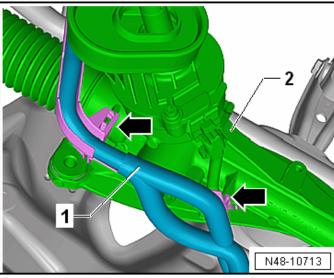


- Reinstall the subframe.
- The removal of the locating pins is reverse of installation, noting the following:
 - Only remove one locating pin at a time and replace each with a new bolt.

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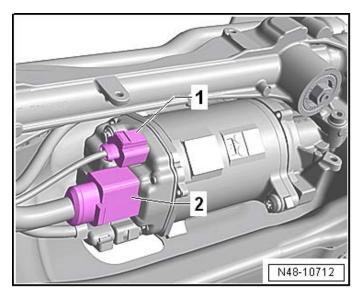


- Carefully install the subframe onto the locating pins <1>.
- Make certain that the locating pins do not move during the reinstallation of the subframe or the vehicle alignment may be compromised.



For Golf Models (Criteria 17, 18, 19, and 27):

- Reconnect the wiring harness <1> onto the steering gear <2> <arrows>.
- Route all wiring and harness connections, around the subframe the remainder of the way.

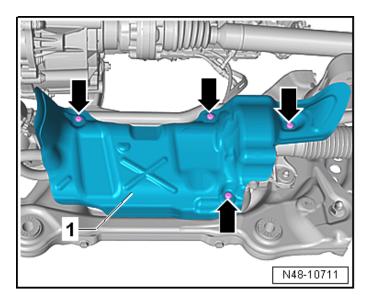


For Golf Models (Criteria 17, 18, 19, and 27):

 Reconnect the connectors <1 and 2> onto the steering gear.

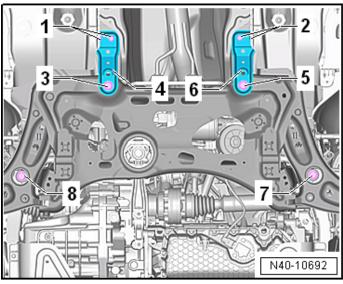
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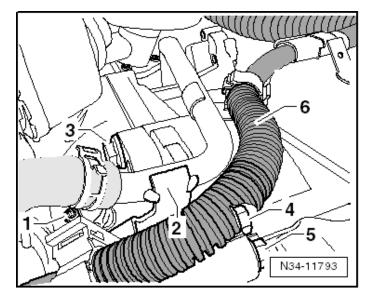
For Golf Models (Criteria 17, 18, 19, and 27):

 Reinstall the bolts <arrows> and install the heat shield <1> onto the steering gear.



For Golf Models (Criteria 17, 18, 19, and 27):

- Install the new subframe bolts <3, 5, 7, and 8> in order. Tighten to 70Nm + 180° turn.
- Only remove one locating pin and install one subframe bolt at a time.
- Install new subframe bolts <1 and 2> in order and tighten to 50Nm +90° turn.

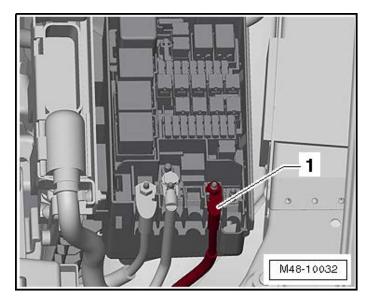


For Passat Models (Criteria 05):

- Reinstall the bolt <1> for the lower side coolant pipe <2> on the engine and tighten the bolt to 10 Nm.
- Reconnect the wire loom connections to the front wire <6> on the transmission.

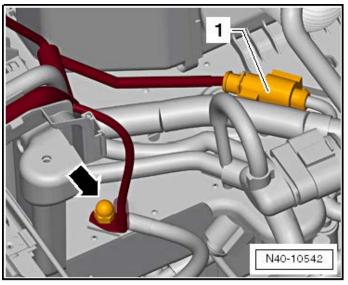
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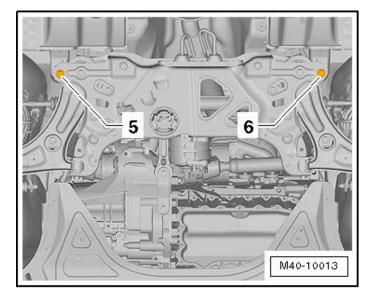
For Passat and Jetta Models (Criteria 05 and 08):

• Reconnect the wire <1> to the E-box and tighten the nut to 9.0 Nm.



For Passat and Jetta Models (Criteria 05 and 08):

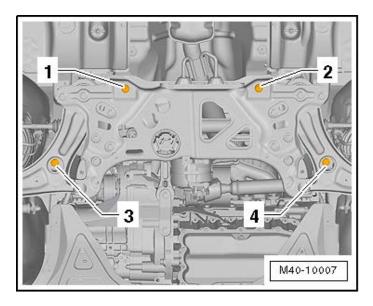
- Reconnect the connector <1>.
- Install the cap nut <arrow> and tighten to 20
 Nm for the ground wire.
- Reinstall the wiring harness into the bracket on the longitudinal member.



For Passat and Jetta Models (Criteria 05 and 08):

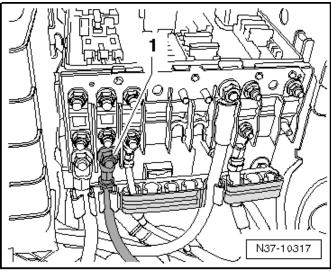
 Install new subframe bolts <5> and <6> and tighten to 70Nm + 180° turn.

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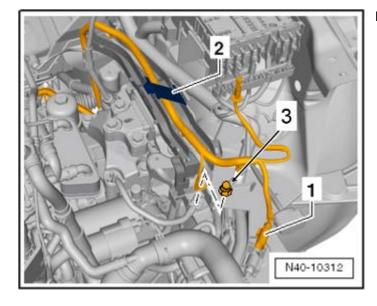
For Passat, and Jetta Models (Criteria 05 and 08):

- Install the new subframe bolts <1, 2, 3, and 4> in order. Tighten to 70Nm + 180° turn.
- Only remove one locating pin and install one subframe bolt at a time.



For CC Models (Criteria 06):

- Reinstall the nut <1> for the electronic power steering gear feed into the E-box and tighten the nut. Tighten to the specification below based on configuration:
 - If equipped with an M5 (8 mm) nut, tighten to 4.0 Nm.
 - If equipped with an M6 (10mm) nut, tighten to 6.0 Nm.

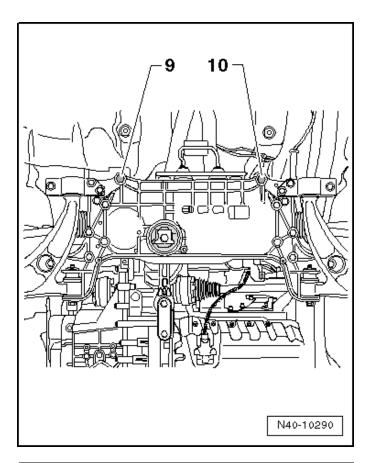


For CC Models (Criteria 06):

- Reconnect the connector <1>.
- Reinstall the cap nut <3> for the ground cable and tighten the nut to 20 Nm.
- Insert the wiring harness into the bracket on the longitudinal member.
- Reinstall the cover <2>.

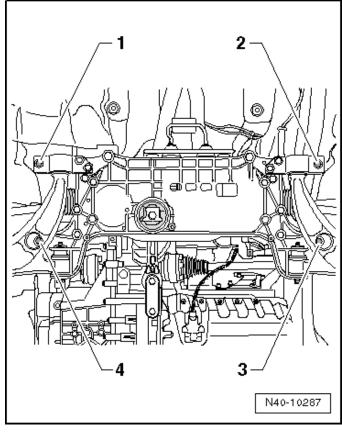
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For CC Models (Criteria 06):

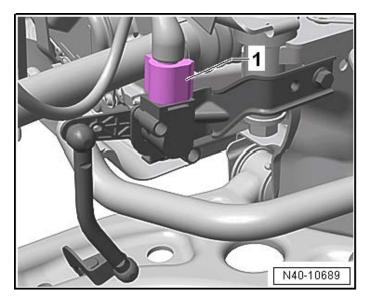
 Install new subframe bolts <9 and 10> and tighten to 70Nm + 180° turn.



For CC Models (Criteria 06):

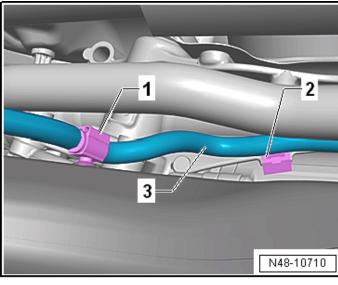
- Install the new subframe bolts <1, 2, 3, and 4> in order. Tighten to 70Nm + 180° turn.
- Only remove one locating pin and install one subframe bolt at a time.

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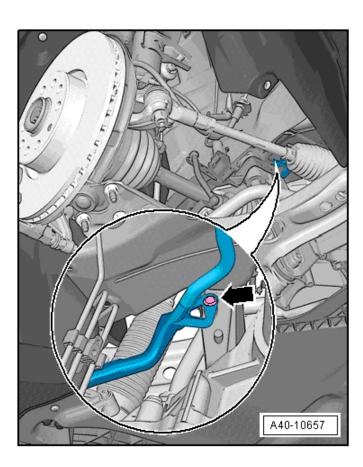
For Vehicles with Level Control System Sensor:

 Reconnect the connector <1> from the Left Front Level Control System Sensor -G78and/or Right Front Level Control Sensor -G289-.

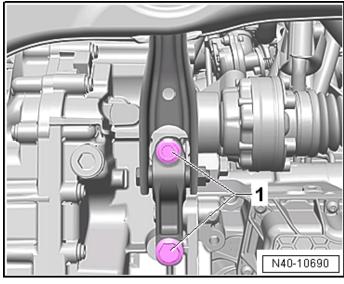


 Reinstall the clips <1 and 2> for the wiring harness <3> from the subframe and the steering gear.

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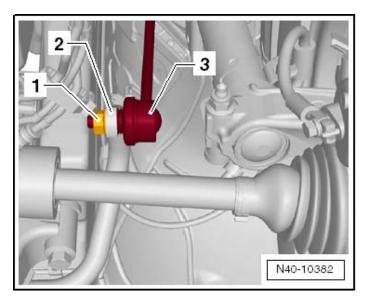


Reinstall the steering gear electrical harness fastener.

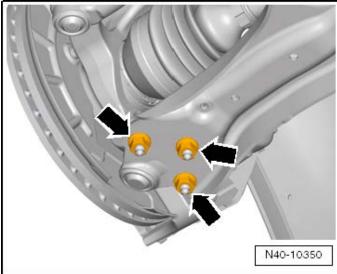


- Install the pendulum support with new bolts
 <1> on the transmission.
- Tighten the new bolts to 50Nm + 90°.

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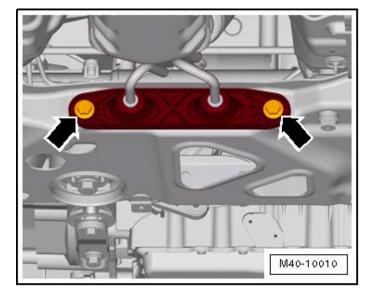
- Install new hex nuts <1> onto the right and left coupling rod <3>.
- Tighten the coupling rod nuts to 65 Nm.



- Install the new ball joint nuts <arrows> on the left and right side of the vehicle.
- Tighten the nuts to:

Passat, CC: 100 Nm

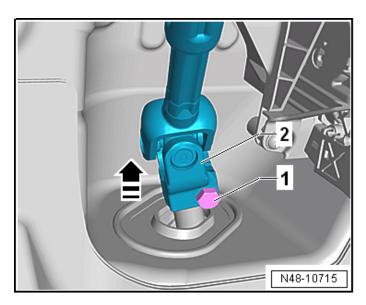
o Golf, Jetta: 40 Nm + 45°



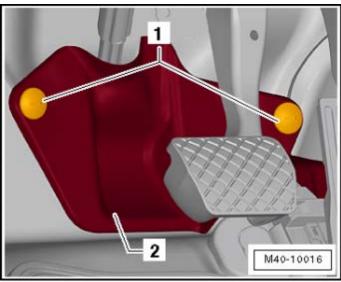
 Reinstall the exhaust system bracket onto the subframe <arrows> and tighten the bolts to 23 Nm.

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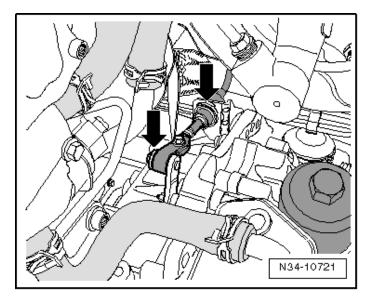
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• Install a new bolt <1> for the universal joint <2> and tighten the bolt to 20 Nm + 90°.

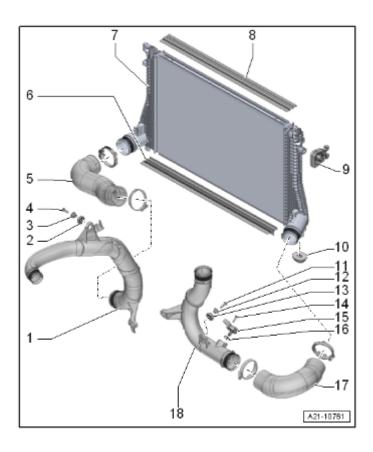


 Reinstall the footwell trim panel <2> and install the nuts <1>.

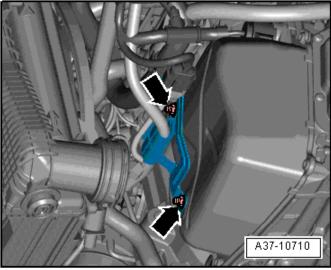


- Reinstall the selector lever cable.
- The selector lever cable lock washers and Orings <arrows> must be replaced. Install new cable lock washers.
- Adjust the selector lever cable if necessary.

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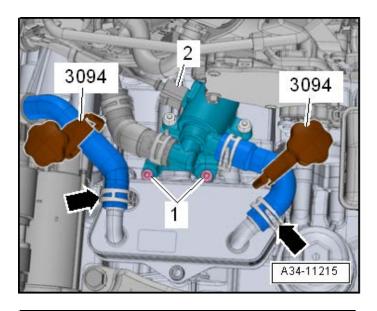


- Reconnect the charge air hose <5 and 1> and reconnect the clamps.
- Reinstall the charge air pipe and tighten the bolt <4> to 7 Nm.

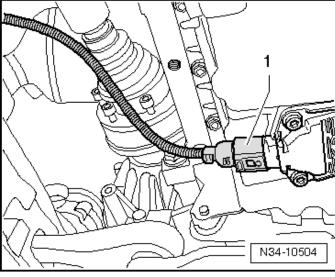


 Reinstall the wiring bracket on the oil pan and tighten the bolts to 10 Nm.

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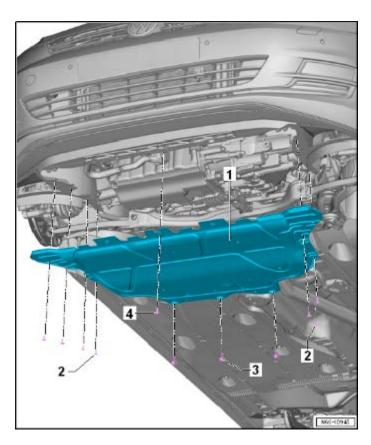


- Reinstall the transmission coolant valve and tighten the bolts <1> to 9 Nm.
- Reinstall the electrical connector <2>
- Reinstall the coolant hoses and reconnect the clamps <arrows>.
- Remove the -3094- coolant hose clamps.

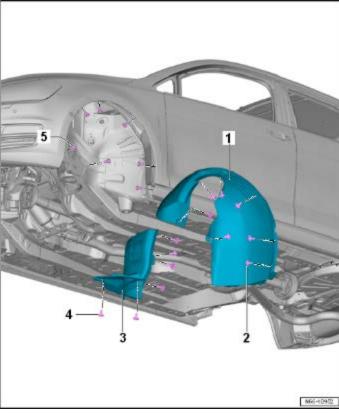


• If equipped, reconnect the connector <1> from the Oil Level Thermal Sensor -G266-.

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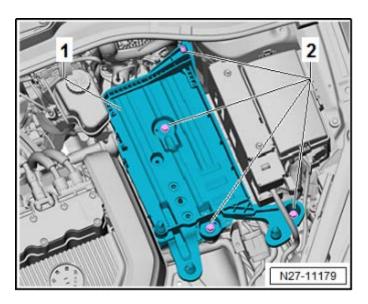


 Reinstall the underbody noise installation and tighten the fasteners <2> to 2 Nm. Tighten the fasteners <3> to 6 Nm.

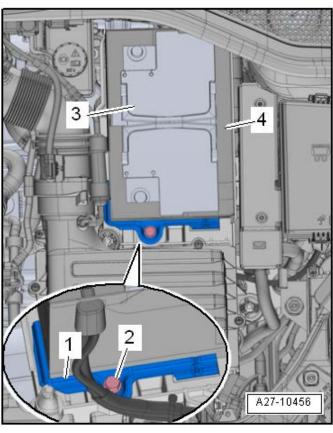


• Reinstall the left front fender liner <1> and tighten the fasteners <2 and 4> to 2 Nm.

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• Reinstall the battery tray and tighten the fasteners <2> to 9 Nm.

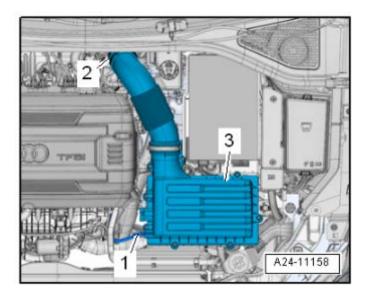


- Reinstall the battery, reinstall the hold down clamp <1> and tighten the hold down clamp bolt <2> to 15 Nm.
- Reconnect the positive battery cable terminal and tighten the nut to 6 Nm.
- Reconnect the negative battery cable and tighten the nut to 6 Nm.

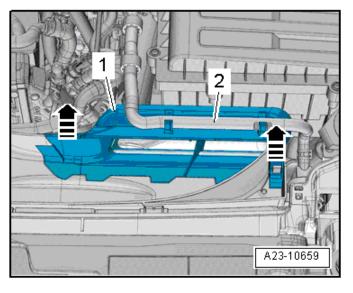


For vehicles with trunk mounted batteries, reconnect the negative terminal. The battery will still be installed in trunk mounted applications.

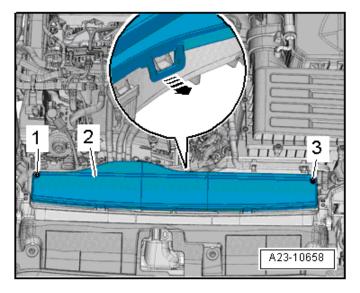
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- Reinstall the airbox <3> and reconnect the clamp <2>.
- Reattach the low pressure hose <1> to the airbox.

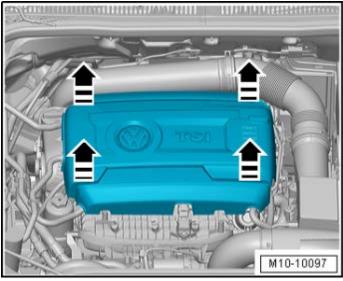


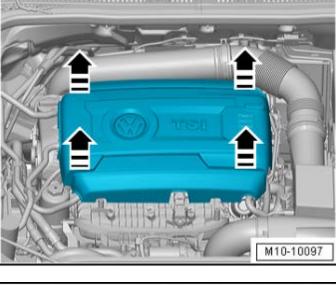
- Reinstall the air inlet <1> and reconnect the locking mechanism.
- Reinstall the coolant hose <2>.



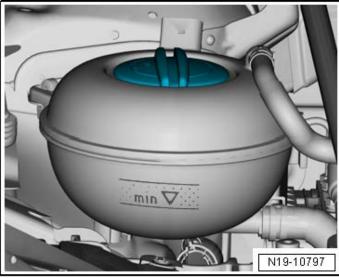
- Reinstall the bolts <1 and 3>.
- Reconnect the locks <arrow> on the cover <2>.

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- Reinstall the engine cover.
- In order to prevent causing damage, do not hit the engine cover with your fist or tool.
- Position the engine cover while paying attention to the oil filler tube and oil dipstick.
- Press the engine cover into the rubber grommets on the left side first, then into the ones on the right side.



- Top off the coolant reservoir to account for any coolant lost during removal of the transmission cooler lines.
- Verify the DSG transmission fluid level using ODIS test plan. Add fluid as necessary.
- Recheck coolant level after the engine is warm.

- Connect the ODIS diagnostic tester and clear any faults found.
- Adapt and code the new Mechatronics as needed.
- For vehicles with a vehicle level sensor, perform the basic setting for the wheel damping electronics. Refer to Vehicle Diagnostic Tester.
- Reset all customer convenience settings (onetouch power windows, clock, radio presets, etc).
- **Proceed to Section C**

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Section C - Campaign Completion Label

Install Campaign Completion Label

 Fill out and affix Campaign Completion Label, part number CAMP 010 000, next to the vehicle emission control information label.

i TIP

Ensure Campaign Completion Label does not cover any existing label(s).

Proceed to Section D

Section D - Parts Return/Disposal

Properly store (retain), destroy or dispose of removed parts in accordance with all state/province and local requirements, unless otherwise indicated and/or requested through the Warranty Parts Portal (WPP).

Proceed to Section E (California only).

Section E- California Only Requirements

CALIFORNIA ONLY Requirements for Emissions Campaigns Having Customer Notification

The California Air Resources Board and the Department of Motor Vehicles (DMV) require emissions-related campaigns to be completed prior to vehicle registration renewal. When campaign work is done you must provide the owner with a signed "Vehicle Emission Recall – Proof of Correction" certificate (RC EMIS_CAL VW). Certificates can be ordered at no cost online via the Compliance Label Ordering portal at www.vwhub.com.



Ensure owners are aware of the importance of retaining the completed certificate for their records. It should be mailed to the California DMV *only upon request*.

Appendix A – Warning and Safety Precautions

A WARNING

- Risk of injury and accident by accidentally engaging a selector lever position with the engine running.
- Move the selector lever into "P" and set the parking brake before working on a running engine.
- Risk of injury if the engine starts automatically in vehicles with a Start/Stop System.
 - For vehicles with an activated Start/Stop System (recognizable from a notification in the instrument cluster), the motor can be started automatically if needed.
 - Always make sure the Start/Stop System is disabled when working on the vehicle (ignition switched off, if needed, turn the ignition back on).
- There is a risk of an accident due to distractions and improperly secured testing equipment. Always secure testing equipment to the rear seat with a strap and have a second technician operate it in the rear seat.
 - Risk of the front passenger airbag deploying during an accident. Technicians should not operate testing equipment from the front passenger seat during a road test.

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- Operating testing equipment while driving is a distraction.
- o Testing equipment that is not secured properly increases the risk of personal injury.

A CAUTION

- Risk of destroying electronic components when disconnecting the battery. Follow the steps when disconnecting the battery.
- Always turn off the ignition before disconnecting the battery.

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