

Service Action

Code: 97DZ



Subject	Transmission Wiring Harness																												
Release Date	June 09, 2020																												
Affected Vehicles	<table border="1"> <thead> <tr> <th>Country</th> <th>Beginning Model Year</th> <th>Ending Model Year</th> <th>Vehicle</th> <th>Vehicle Count</th> </tr> </thead> <tbody> <tr> <td>USA</td> <td>2019</td> <td>2019</td> <td>A6</td> <td>15,208</td> </tr> <tr> <td>USA</td> <td>2019</td> <td>2019</td> <td>A7</td> <td>5,474</td> </tr> <tr> <td>CAN</td> <td>2019</td> <td>2019</td> <td>A6</td> <td>850</td> </tr> <tr> <td>CAN</td> <td>2019</td> <td>2019</td> <td>A7</td> <td>819</td> </tr> </tbody> </table>				Country	Beginning Model Year	Ending Model Year	Vehicle	Vehicle Count	USA	2019	2019	A6	15,208	USA	2019	2019	A7	5,474	CAN	2019	2019	A6	850	CAN	2019	2019	A7	819
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	<p>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 <u>only</u> valid campaign inquiry & verification source.</p> <ul style="list-style-type: none"> ✓ 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	The transmission wiring harness may not be properly secured, causing it to rub and possibly become damaged.																												
Corrective Action	Inspect and modify transmission wiring harness and repair wiring if necessary.																												
Code Visibility	On or about June 09, 2020, the campaign code will be applied to affected vehicles.																												
Owner Notification	Owner notification will take place in June 2020. Owner letter examples are included in this bulletin for your reference.																												
Campaign Expiration Date	This campaign expires on December 31, 2022 . 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	<p>Please alert everyone in your dealership about this action, including Sales, Service, Parts and Accounting personnel. Contact Warranty if you have any questions.</p> <p>Dealers must ensure that every affected inventory vehicle has this campaign completed <u>before delivery to consumers</u>.</p>																												

Parts Information

Parts Control Type:
Upper Order Limit

Parts will be managed with a weekly Upper Order Limit. Please see Parts On Command (POC) for your Upper Order Limit quantity.

Initial Allocation:
YES

Dealers will be sent an initial allocation prior to customer notification. If no initial allocation was received, please reference the Repair Projection Tool (below) to view your potential VIN population.

Repair Projection Tool:
(right click to open)



Criteria	Quantity	Part Number	P.O.C. Part Description	Ordering Method
G1	1	N -108-705-01	Protection (Protective Sleeve)	UOL
	1	3D0-971-838-L	Tie wrap	UOL
	2000 mm*	N -105-920-02	Tape	UOL
	2	N -106-598-01	Tie wrap	UOL
	260 mm**	N -107-327-01	Pipe (Corrugated hose)	UOL
	1	N -907-988-09	Nut	UOL
	2	N -910-661-01	Bolt	UOL
	2	N -912-651-01	Screw	UOL

IMPORTANT PARTS INFORMATION

*Tape part number N -105-920-02 is a 25,000 mm roll of tape. One roll will repair approximately 12 cars.

**Pipe part number N -107-327-01 is a 1000 mm section of pipe. One section will repair approximately 3 cars.

NOTE

The specified part numbers reflect the status at the start of this service action. Interim updates made in ETKA can cause a listed part number to become unavailable. In this case, the new part number specified in ETKA should be used.

Claim Entry Instructions

The labor times listed here may differ from the labor operations and labor times listed in ELSA.

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 open on the day of repair to the repair order.

If customer refused campaign work:

- ✓ U.S. dealers: Submit the request through Audi Warranty Online under the Campaigns/Update option.
- ✓ Canada dealers: Upload the repair order [signed by customer] to Audi WIN/Operations/Campaign Closure.

Service Number	97DZ		
Damage Code	0099		
Parts Vendor Code	002		
Claim Type	Sold vehicle: 7 10 Unsold vehicle: 7 90		
Causal Indicator	Mark Protection* as causal part		
Vehicle Wash/Loaner	Do not claim wash/loaner under this action		
Criteria I.D.	G1		
	LABOR		
	Labor Op	Time Units	Description
	9781 41 99	120	Rework transmission wiring harness
	PARTS		
	Quantity	Part Number	Description
	1.00	N 10870501	Protection* (Protective Sleeve)
	1.00	3D0971838L	Tie wrap
	12.50	N 10592002	Tape
	2.00	N 10659801	Tie wrap
	0.30	N 10732701	Pipe (Corrugated hose)
	1.00	N 90798809	Nut
	2.00	N 91066101	Bolt
	2.00	N 91265101	Screw

Continued on next page

<i>ADD <u>ONLY</u> if wiring damage was found</i>		
LABOR		
Labor Op	Time Units	Description
9709 41 99	Up to 190 TU**	Wiring harness repair (see below for amount to claim)
3730 25 99	Time stated on diagnostic protocol (up to 20 TU)	Clear faults related to damaged wiring
PARTS		
Quantity	Part Number	Description
As required	See ETKA	Butt connector
As required	See ETKA	Repair wire
# of pins (wires) replaced	T.U. to claim**	Every claim that includes wiring will be reviewed for claim accuracy to ensure the number of pins (wires) replaced equals the T.U. listed in this chart.
1	30	
2	40	
3	50	
4-6	70	
7-8	90	
9-11	110	
12-15	130	
16-18	160	
19-20	190	

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 Audi dealer. ©2020 Audi of America, Inc. and Audi Canada. All Rights Reserved.

Customer Letter Example (USA)

<MONTH YEAR>

<CUSTOMER NAME>

<CUSTOMER ADDRESS>

<CUSTOMER CITY STATE ZIPCODE>

This notice applies to your vehicle: <MODEL YEAR> <BRAND> <CARLINE>, <VIN>

Subject: Service Action 97DZ – Transmission Wiring Harness

Dear Audi Owner,

As part of Audi's ongoing commitment to customer satisfaction, we are informing you of our decision to conduct a service action on certain 2019 model year Audi vehicles. Our records show that you are the owner of a vehicle affected by this action.

What is the issue? The transmission wiring harness may not be properly secured, causing it to rub and possibly become damaged.

What will we do? Your authorized Audi dealer will inspect and modify transmission wiring harness, repairing wiring if necessary. This work will take about two hours to complete and will be performed for you free of charge.

What should you do? In order to limit any possible inconvenience, please contact your authorized Audi dealer as soon as possible to schedule this service. 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. For your convenience, you can also visit www.audiusa.com and click on the "Find a Dealer" link to locate a dealer near you and schedule this service.

This service action will be available for you **free of charge only until December 31, 2022**. If you wish to have this service performed after that date, your dealer's normal 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 Audi dealer fails or is unable to complete this work free of charge within a reasonable time, please contact Audi Customer Experience at 1-800-253-2834 or via our "Contact Us" page at www.audiusa.com.

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 visit the **Recall/Service Campaign Lookup** tool at www.audiusa.com and enter your Vehicle Identification Number (VIN).

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,

Audi Customer Protection

Customer Letter Example (Canada)

<MONTH YEAR>

<CUSTOMER NAME>

<CUSTOMER ADDRESS>

<CUSTOMER CITY STATE ZIPCODE>

This notice applies to your vehicle: <MODEL YEAR> <BRAND> <CARLINE>, <VIN>

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Dear Audi Owner,

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Can we assist you further? If your authorized Audi dealer fails or is unable to complete this work free of charge within a reasonable time, please contact Audi Customer Relations Monday through Friday from 8AM to 8PM EST at 1-800-822-2834 or via our "Contact Audi Canada" page at www.audi.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,

Audi Customer Protection

Repair Overview



- Modify transmission wiring harness.
- Repair wiring if necessary.

NOTE

- These repair instructions may differ from the labor operations and labor times listed in ELSA.
- 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.
- This procedure must be read in its entirety prior to performing the repair.
- Due to variations in vehicle equipment and options, the steps/illustrations in this work procedure may not identically match all affected vehicles.
- Diagnosis and repair of pre-existing conditions in the vehicle are not covered under this action.
- When working during extreme temperatures, it is recommended that the vehicle be allowed to acclimate inside the shop to avoid temperature-related component damage/breakage.

NOTE

If a vehicle arrives with one or more of the following faults, this repair should be performed prior to performing additional diagnosis. Please note that these faults can be caused by failures outside of the condition outlined in this repair. Diagnosis and repair of such failures will not be covered under this action.

Address Word/Control Module	DTC
0002/Transmission Control Module – J217	P17F600 (Parking lock solenoid Electrical error)
	P17F500 (Parking lock solenoid Open circuit)
	P17F400 (Parking lock solenoid Short circuit to ground)
	P18C400: parking lock solenoid, implausible signal
	U008000 (Vehicle Communication Bus F)
0001/Engine Control Module – J623	U010100 (Lost Communication with TCM)
0019/Databus Diagnostic Interface – J533	U11B000 (FlexRay data bus branch 2 faulty) as sporadic or static.
	U112100: Data bus missing message

Repair Instruction

Section A - Check for Previous Repair

Applicable criteria ID(s)	Campaign/Action Status
01 	Open 

EXAMPLE

Campaign/Action	Start	Designation
	2015-11-10	W-SERV_ACT -
	2018-12-13	RECALL -
	2017-05-16	A-RECALL -

EXAMPLE

- Enter the VIN in Elsa and proceed to the “Campaign/Action” screen.

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.

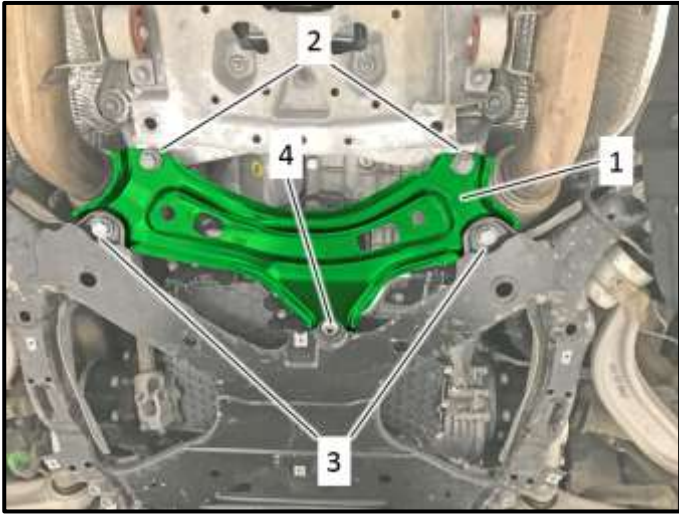
CRITICAL REPAIR STEP

 **STOP!** 

If multiple software update Campaign/Actions are open, they must be performed in order of the Start date <arrow 3>. The oldest should be performed first.

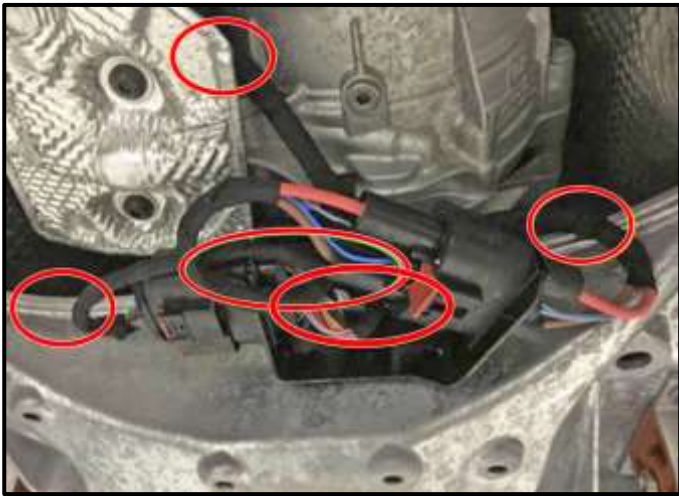
- **All Safety Recalls must be completed prior to completing this campaign.**
- **Proceed to Section B.**

Section B – Transmission Wiring Harness Repair



Remove subframe end panel (if equipped):

- Remove noise insulation.
- Remove fasteners <2, 3 and 4> and remove end panel <1>.



Inspect transmission wiring harness for damage:

- Thoroughly inspect the transmission and body side wiring harness and routing near the areas shown.

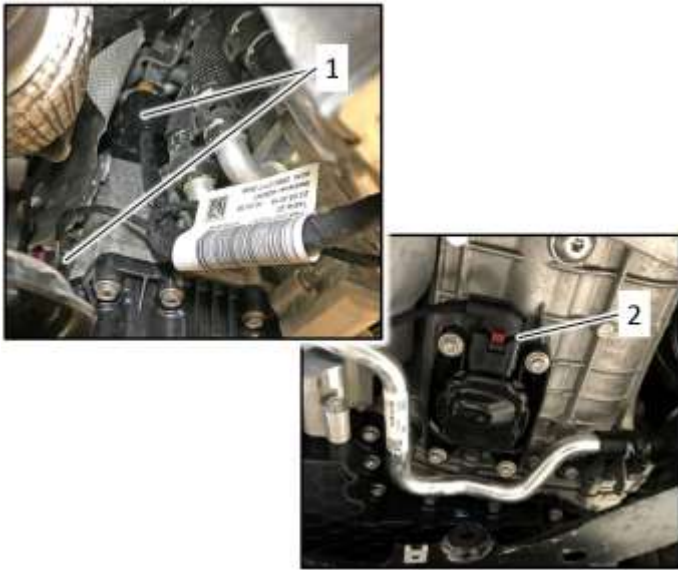


- Pay very close attention to all areas making contact with any bracket or mount. Harness damage may be very subtle and even a light chaffing could lead to faults.
- Repair wiring as needed per the repair manual.
 - See ELSA Repair Manual: *Repair manual > Electrical System > Electrical Equipment General Information > 97 Wiring > Wiring Harness and Connector Repairs*
- Ensure the repairs are staggered as needed to:
 1. Avoid large bunches of repairs in the harness.
 2. Avoid a repair at a critical flex point, e.g. over the transmission cross brace.



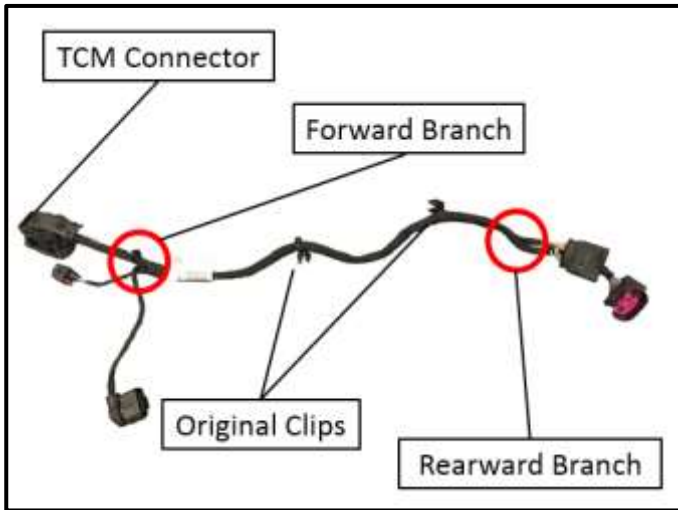
Remove transmission wiring harness:

- Disconnect transmission wiring harness connectors <1> and <2>.
- Remove transmission side wiring from the bracket.



Disconnect connectors:

- Unlock and disconnect connectors <1> and <2> from transmission.
- Remove transmission wiring harness from vehicle.

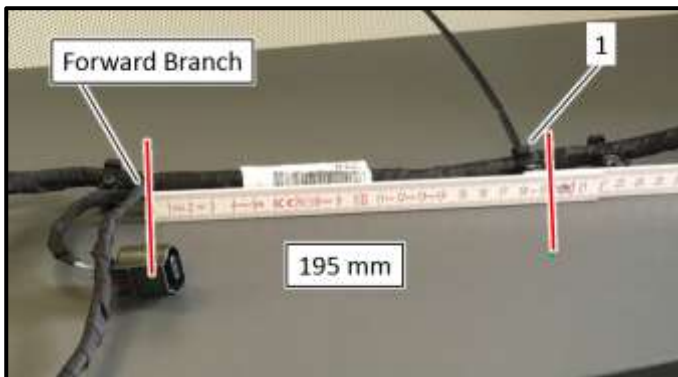


Rework transmission wiring harness:

i TIP

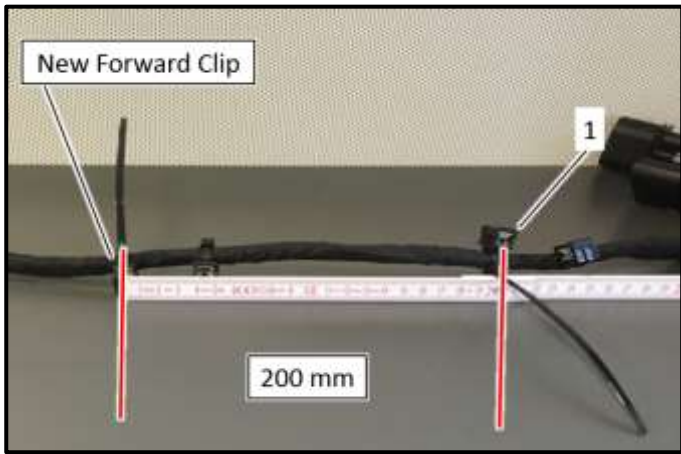
It is helpful to mark the harness with a yellow tire crayon at the locations for the new tie wrap clips. This way, the tie wrap clip can be left slightly loose and then tightened at the end of the procedure. This will aid in orientation of the harness.

- Measure 195 mm from the forward branch on the wiring harness.
- Install new tie wrap clip <1>.



Part Number	Part Description
N -106-598-01	Tie wrap clip

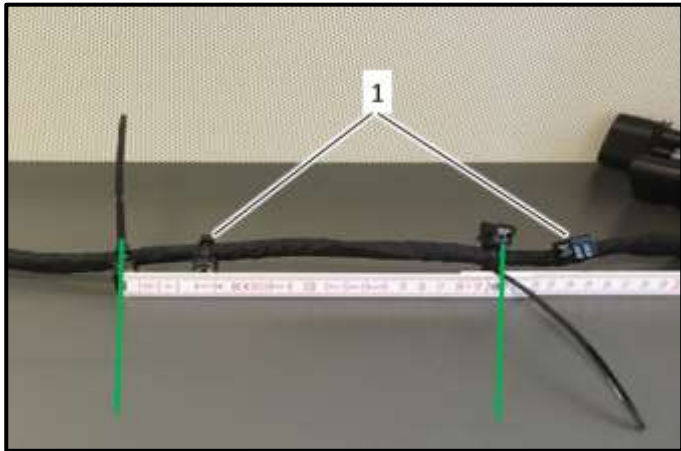
- The opening of the new clip should face the same direction as the original clip.



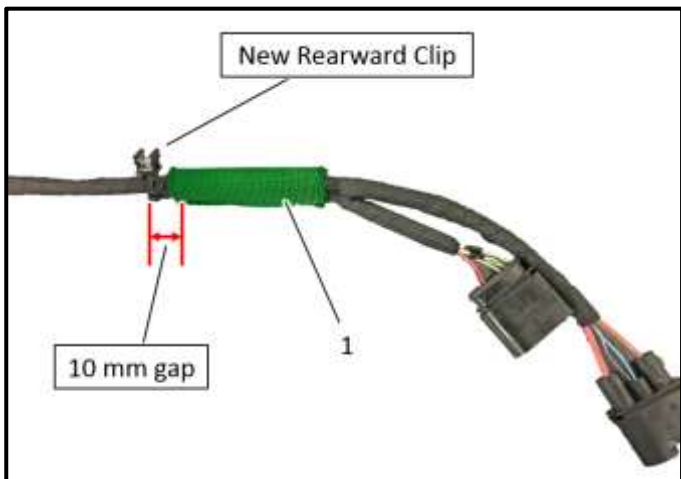
- Measure 200 mm from the new forward clip on the wiring harness.
- Install new tie wrap clip <1>.

Part Number	Part Description
N -106-598-01	Tie wrap clip

- The opening on the new clip should face the same direction as the original clip.



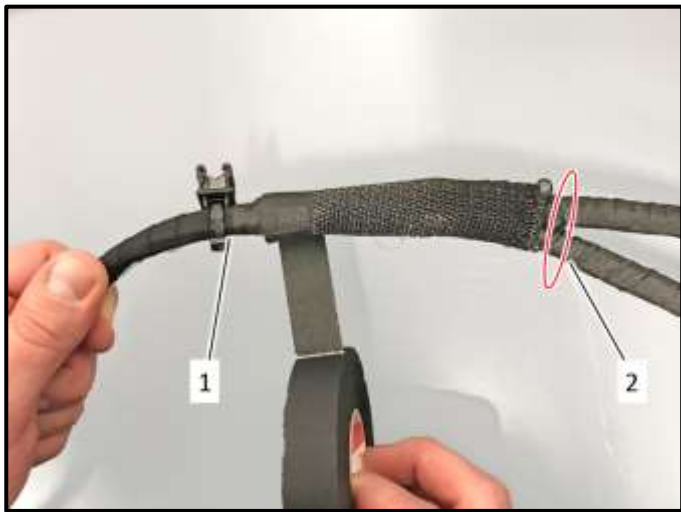
- Remove the old clips <1>.



- Install the new protective sleeve <1> around the wiring harness.

Part Number	Part Description
N -108-705-01	Protective sleeve

- Place the new protective sleeve <1> 10 mm from the new rearward clip.



- Wrap the protective sleeve with fabric tape.

Part Number	Part Description
N -105-920-02	Fabric tape

- Wrap the tape from the new rear clip <1> up to the rear branch of the wiring harness <2>.



- The taped sleeve should appear as shown.



Deburr transmission cross brace:

- Using a half-round file, lightly chamfer and smooth the rear edge of the transmission cross brace.

! NOTE

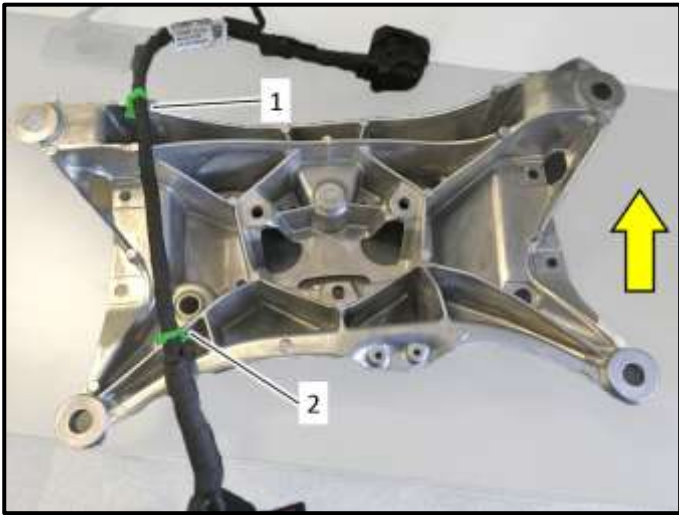
Transmission cross brace shown removed for clarity. It is not necessary to remove the cross brace.

- Avoid removing excessive amounts of material or deforming the cross brace.
- Ensure edges that will make contact with the transmission wiring harness are free of any burrs before proceeding.

! NOTE

Connector housing bracket shown removed for clarity. The connector housing bracket does not require removal from the transmission cross brace.





Reinstall transmission wiring harness:

- Arrow denotes direction of vehicle travel.
- Route the transmission harness over the cross brace.
- Secure forward clip <1> and rearward clip <2> to the transmission cross brace.

! NOTE

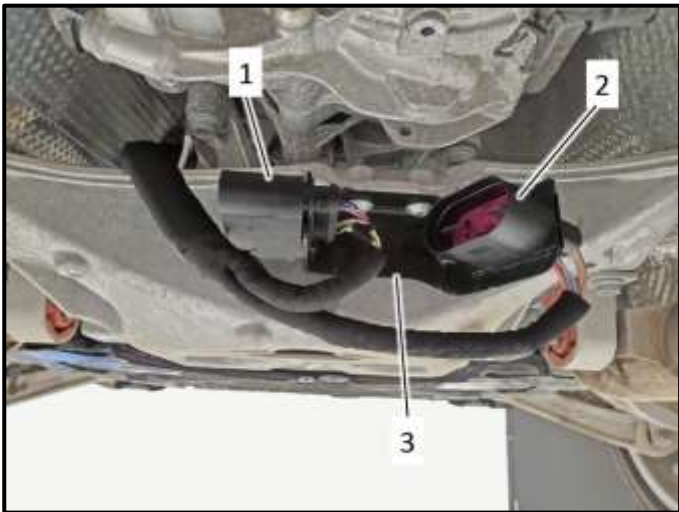
Transmission cross brace shown removed for clarity. It is not necessary to remove the cross brace.



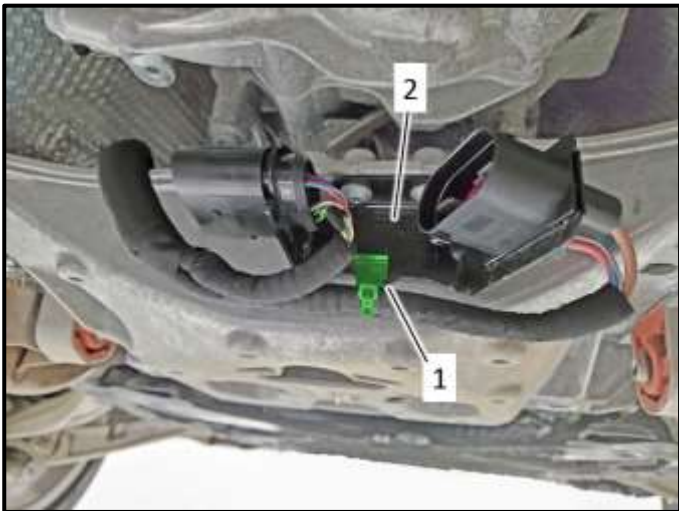
- Forward clip attachment point shown.



- Rearward clip attachment point shown.



- Reinstall transmission harness connectors <1> and <2> into bracket <3>.
- Ensure the harness is routed as shown.

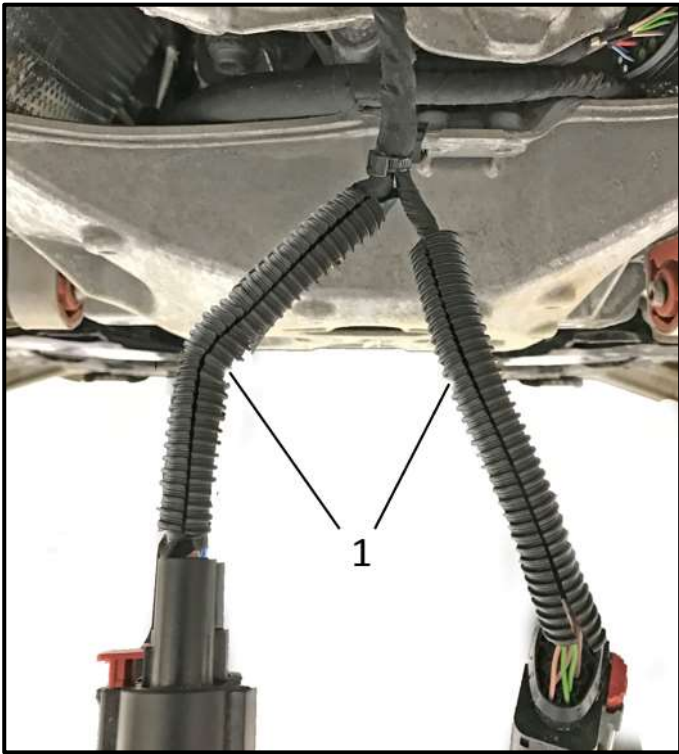


- Install new wiring harness clip <1> onto harness as shown and secure to connector bracket.

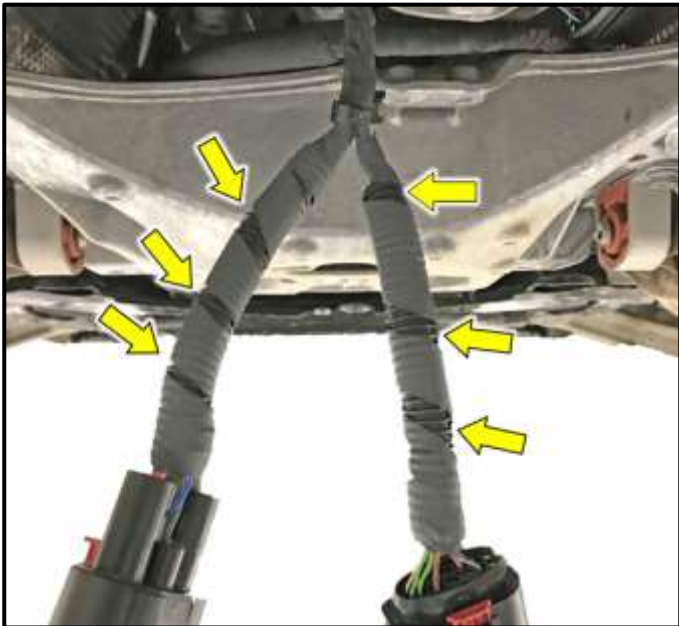
Part Number	Part Description
3D0-971-838-L	Tie wrap clip

TIP

Install the clip at the central point of the connector bracket first, position the harness and then tighten the cable tie. This will aid in orientation of the harness.



- Install 130 mm of corrugated tube <1> onto each body side wiring harness section as shown.



- Wrap corrugated tube with fabric tape.

Part Number	Part Description
N -105-920-02	Fabric tape

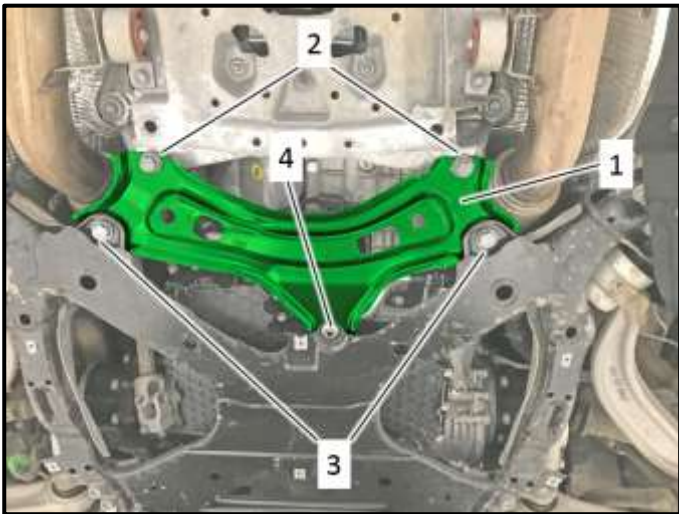
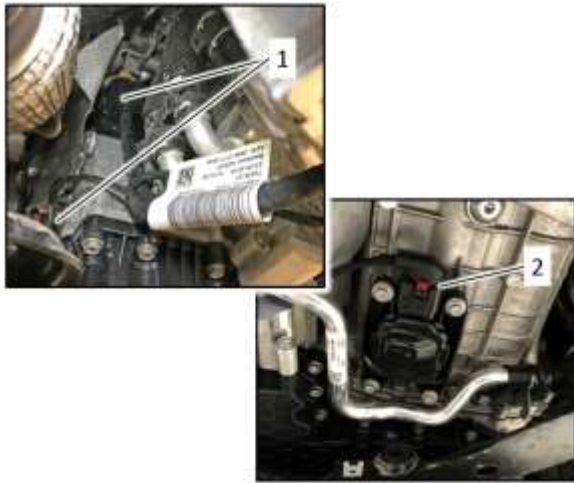
- Ensure there is gap between the tape windings <arrows>.
- Ensure the corrugated tube is secured to the wiring harness with the fabric tape to prevent the harness from sliding inside the corrugated tube.

NOTE

The gaps in the tape are necessary to allow water to flow out of the wiring harness.



- Reconnect, secure and lock all connectors and wiring harness clips.
- Ensure the new tie wrap clips are all secure.



Reinstall subframe end panel (if equipped) and noise insulation:

- Installation is the reverse order of removal.
- All fasteners will be replaced and torqued as follows:

Part Number	Location	Torque
N -907-988-09	Nut <4>	30 Nm
N -910-661-01	Bolt <2>	50 Nm + 90°
N -912-651-01	Bolt <3>	70 Nm + 90°

- Install noise insulation in the reverse order of removal.

Proceed to Section C.

Section C – Campaign Completion Stamp

I certify that this campaign
has been performed in strict
accordance with the applicable
Audi repair procedure.

SAGA Code: _____
Technician: _____
Date: _____

Item#: AUD4927ENG

-OR-

Je certifie que cette
campagne de rappel a été
exécutée suivant les strictes
directives de réparation
d'Audi

Code de SAGA: _____
Technicien: _____
Date: _____

Item # AUD4927FRE

- Once the campaign has been completed, the technician should stamp the repair order.
- Stamps are available for ordering through the Compliance Label Ordering Portal.
- **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) for U.S. and the Part Destruction and Core Disposition Report for Canada.