



## Installation instructions

Akrapovič Exhaust System:

**Downpipe set**

for the

**Audi RS6** (type C7)

**Audi RS7** (type C7)

ENGLISH

Version 1.0

05/2018



[www.akrapovic.com](http://www.akrapovic.com)





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Congratulations on purchasing the Akrapovič exhaust system. The Akrapovič exhaust system is a product of Akrapovič d.d., Malo Hudo 8a, 1295 Ivančna Gorica, Slovenia ("Akrapovič").

**Please read this entire installation manual carefully prior to installing and using the Akrapovič exhaust system.**

Akrapovič exhaust system should only be installed by persons skilled in car exhaust system installation and performance. The instructions provided in this manual should be followed to ensure proper installation and safe use of the Akrapovič exhaust system. Akrapovič and/or its partners shall not be held liable for any damage or personal injury (including direct, indirect, or consequential damage) sustained as a result of improper installation of the Akrapovič exhaust system or its use and maintenance contrary to the instructions and warnings contained herein.

If you have any questions regarding the installation and/or proper use of the Akrapovič exhaust system or this manual, please contact your local Akrapovič partner.

For more information on the Akrapovič exhaust systems, see the official Akrapovič website at: <http://www.akrapovic.com>

## **GENERAL INFORMATION**

Your safety is our number one priority. Please drive your car responsibly, safely and always obey local traffic rules.

All statements made with regard to the exhaust system's compliance are made in respect of the exhaust system "as is". Any modifications of the Akrapovič exhaust system or its improper installation, use or maintenance that is not in accordance with this Installation manual, may result in severe damage to the exhaust system and/ or engine, as well as personal injury, and may affect the exhaust system's compliance with the legal requirements, such as exhaust system's air and/ or noise emissions (as an example, the car may not be suitable for use on public roads any longer), as well as warranty coverage.

The exhaust system may only be used in accordance with relevant laws and regulations, including state and federal, where applicable.

Damage caused by improper installation, use and maintenance of the Akrapovič exhaust system is not covered by the Akrapovič warranty. Please refer to the enclosed warranty with regard to the terms of our warranty.

Technical specifications of Akrapovič exhaust systems and related products are subject to change without notice.

## **COPYRIGHT AND OTHER RIGHTS NOTICE**

The Akrapovič trademark, including corporate logos and emblems, are subject to copyright as well as trademark rights of Akrapovič, its licensors, or third persons authorizing Akrapovič to use them.

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Akrapovič takes all copyright and other rights infringement cases under serious consideration. If you have any reason to believe that your exhaust system is not an original Akrapovič product, please contact our local partners or Akrapovič at [info@akrapovic.com](mailto:info@akrapovic.com).

## SAFETY AND COMPLIANCE WARNING, PLEASE READ CAREFULLY

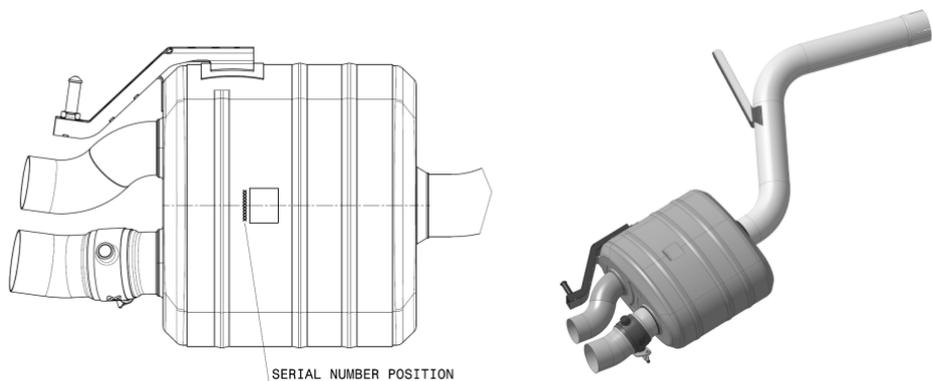
**BEFORE REMOVING THE STOCK EXHAUST SYSTEM AND BEGINNING THE INSTALLATION OF YOUR NEW AKRAPOVIČ EXHAUST, PLEASE MAKE SURE THAT ALL ITEMS LISTED BELOW ARE VERIFIED:**

- This manual is specific to the car indicated on the cover page, for which it is designed. Installation procedures vary depending on the type of car. Please verify that the Akrapovič **exhaust system and this installation manual correspond to the type of your car.**
- The exhaust system can get extremely hot during and after it is used. Make sure not to touch the exhaust system until it is completely cool. **Allow the exhaust and engine to cool down before beginning installation.**
- Make sure the car is **securely positioned to prevent** damage to yourself and other, or the car.
- Please check the parts you received against the parts list available on our website (please use the QR code on the front page or look for “schematic view” in the respective product page on [www.akrapovic.com](http://www.akrapovic.com)). Make sure that you have **all the parts necessary for the installation** of your new Akrapovič exhaust system. If any of the parts is missing, please do not proceed with uninstalling your stock exhaust system/installing the Akrapovič exhaust system and contact the retailer where you purchased the Akrapovič exhaust system.
- Every exhaust system muffler has its unique serial number, which identifies the authenticity of the product. You can find the serial number on the muffler’s sleeve. Please refer to the **picture 1** below. Please verify that your exhaust system is an original Akrapovič product. If you have any doubts, please contact the reseller where you purchased the exhaust system or Akrapovič partners. This manual, any certificates and Akrapovič warranty apply to original products only.

## GENERAL NOTE

Photographs and other illustrations in this manual are symbolic and are intended to help represent individual steps for proper installation and use, as well as for a general overview. The actual component parts of the Akrapovič exhaust system may not entirely correspond to the photographs and other illustrations.

**Picture 1 - Serial Number Position**



## **NOISE AND EMISSION WARNINGS**

### **General warning**

Because of the world-wide distribution of Akrapovič d.d. products, neither Akrapovič d.d. nor any of its subsidiaries make any representation that the exhaust system complies with the air and/or noise emissions laws, or labeling laws, of any jurisdiction. The purchasers are entirely responsible for informing themselves of the applicable laws where the products are to be used and to comply with those law.

Although legal compliance of Akrapovič products in a specific country should be determined by the user, you can find some basic guidance on compliance of your Akrapovič exhaust system with various legal requirements on the product-related part of our website (please use the QR code on the front page or look for the respective product page on [www.akrapovic.com](http://www.akrapovic.com)). For EC and ECE type approvals, please refer to the certificate enclosed to your product.

### **USA WARNING**

Various U.S. states and the U.S. federal government have individual laws regulating the use of aftermarket exhaust parts and systems, especially as those parts and systems modify, remove, or replace original equipment catalyts. Please consult the appropriate laws in your area before installing any aftermarket part or system on your vehicle to ensure compliance with all applicable laws. Neither Akrapovic d.d. nor any of their subsidiaries or the sellers of the parts or systems make any representation that any of their parts or systems comply with any such laws.

### **CALIFORNIA WARNING**

California laws prohibit the use of any aftermarket exhaust part or system that modifies, removes or replaces original equipment catalyts unless the California Air Resources Board has issued an Executive Order regarding such part or system or unless the part or system is exempted by being used only on racing vehicles on closed courses. Neither Akrapovic d.d. nor any of their subsidiaries make any representation that any of their parts or systems has received such an Executive Order or that any of their parts or systems conform with the racing vehicles exemption. The purchasers are entirely responsible for informing themselves of applicable California laws and to comply with those laws.

## SYMBOLS

The following symbols are used throughout these installation instructions:



**TOOLS AND PROTECTIVE EQUIPMENT REQUIRED**



**TIGHTENING TORQUE**



**LUBRICATION**



**HAND TIGHTEN**



**INSTALLATION TIP**



**CAUTION OR IMPORTANT**

### USE BOLT SEALANT



Apply 3 to 4 small drops of bolt sealant onto the cleaned and degreased threads before tightening the bolts.

**WARNING! Avoid contact with skin, eyes and mucous membranes. Do not inhale fumes. Keep out of reach of children.**

### USE ANTI-SEIZE LEAD-FREE COPPER PASTE (black tube)



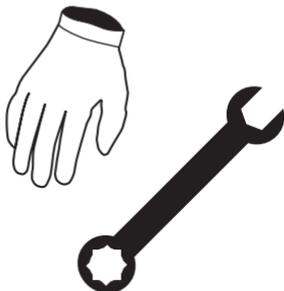
Provides trouble-free and long-lasting protection against seizing, corrosion and rusting of bolts, threaded ends, nuts, joints, etc. Also protects against vibration, wear and impact. **WARNING! Avoid eye contact. Keep out of reach of children.**

### USE ANTI-SEIZING GREASE (white tube)



Prevents seizing, corrosion and excessive wear between the titanium components of your exhaust system. **WARNING! Avoid eye contact. Keep out of reach of children.**

### Tools & equipment



- mechanic gloves
- eye protection
- Torx 25
- Torx 27
- Torx XZN 10
- T-handle 5 mm three hexagon wrench
- T-handle 6 mm three hexagon wrench
- Socket 13 mm
- Socket 16 mm
- Combination 8 mm wrench
- Combination 10 mm wrench
- Combination 13 mm wrench
- Combination 22 mm wrench
- Cutting nippers

## PARTS LIST

The following parts should be found in the box:

- Installation Manual
- Homologation certificate/ compliance documents if applicable
- Warranty
- Fitting material
- Muffler and pipes

Detailed list of parts can be found on the Akrapovič website (please use the QR code on the front page or look for "Schematic view" in the respective product page on [www.akrapovic.com](http://www.akrapovic.com)).

**IMPORTANT: The car should be in the off position throughout the dismantling and installation process, as well as any other work done on the exhaust system!**

## **REMOVAL OF STOCK EXHAUST SYSTEM:**

The process of uninstalling the original exhaust system may vary depending on the existing exhaust system. Please follow the original exhaust system manufacturer's instructions for uninstalling the original exhaust system.

If you for any reason decide otherwise, please note that any information provided in this respect herein should be considered as general information provided for your convenience only. Akrapovič shall not assume any liability or responsibility with regard to uninstalling your existing exhaust system, warranty coverage of such exhaust system or vehicle or their further fitness for use.

**In case your Akrapovič exhaust system may not be used on certain roads or under certain conditions, please keep the stock or other exhaust system that you can use in such circumstances legally.**

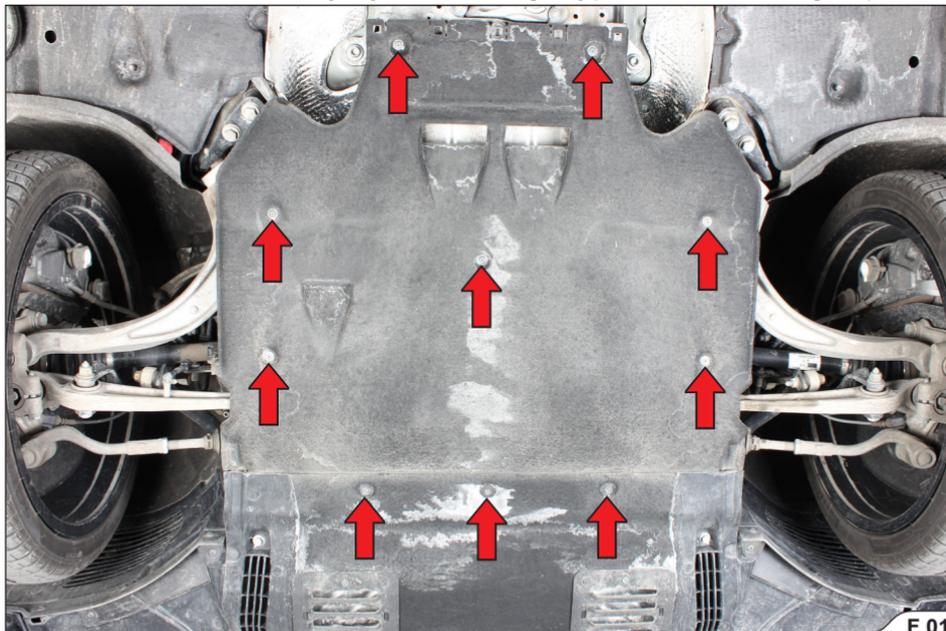
## REMOVAL OF STOCK EXHAUST SYSTEM:

Put the vehicle onto a car lift.

**!** **CAUTION:** ensure that the car is lifted safely and properly in order to avoid the risk of vehicle damage, injury, or even death!

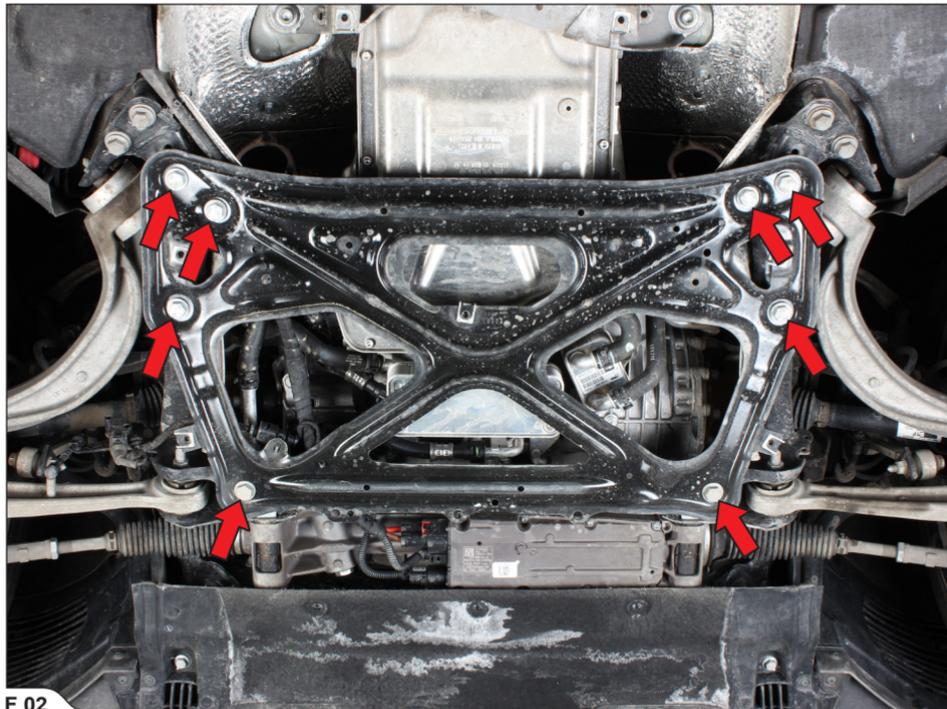
1. Remove the exhaust system off the vehicle; check the **Evolution** exhaust system installation manual for details.
2. Unscrew the marked bolts and remove the under engine panel (**F 01**).

**!** **CAUTION:** make sure not to injure yourself or damage any part of the vehicle during this process!



F 01

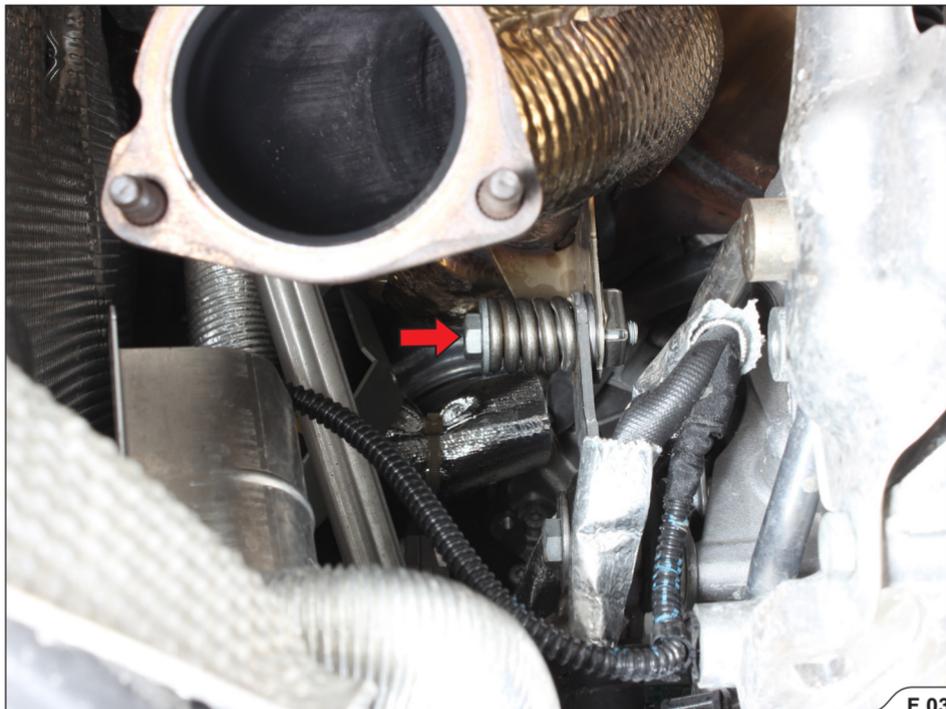
3. Unscrew the marked bolts and remove the chassis reinforcement off the vehicle (F 02).
- !** CAUTION: make sure not to injure yourself or damage any part of the vehicle during this process!



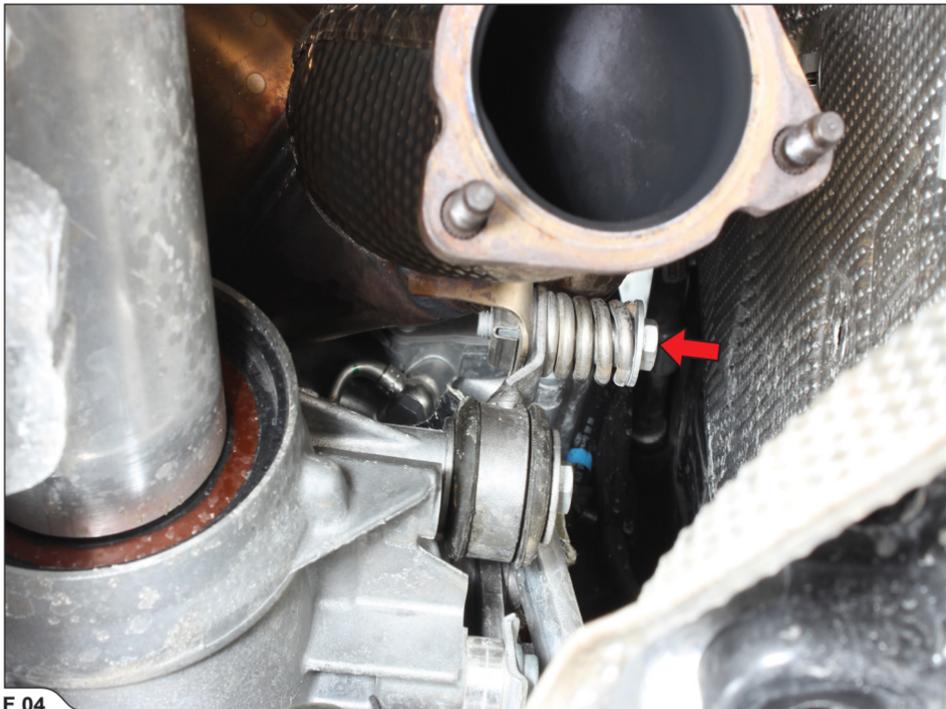
F 02

4. Unscrew the marked bolts on both sides of the engine (F 03, 04).

! **CAUTION:** make sure not to injure yourself or damage any part of the vehicle during this process!



F 03



F 04

5. Remove the windshield trim panel and engine cover; check the vehicle workshop manual for details (F 05, 06).

! **CAUTION:** make sure not to injure yourself or damage any part of the vehicle during this process!



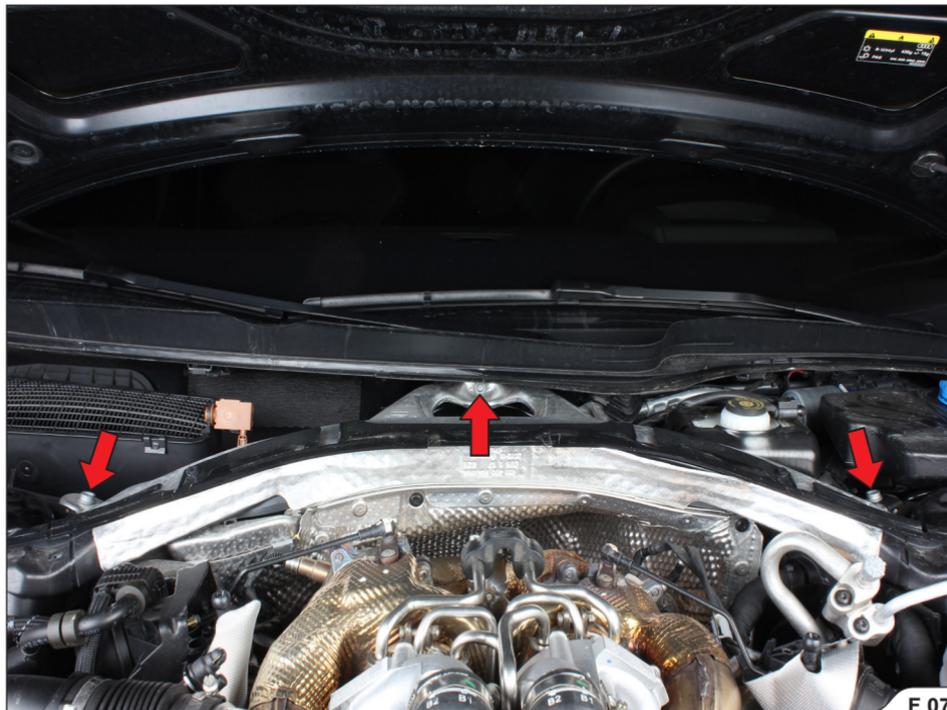
F 05



F 06

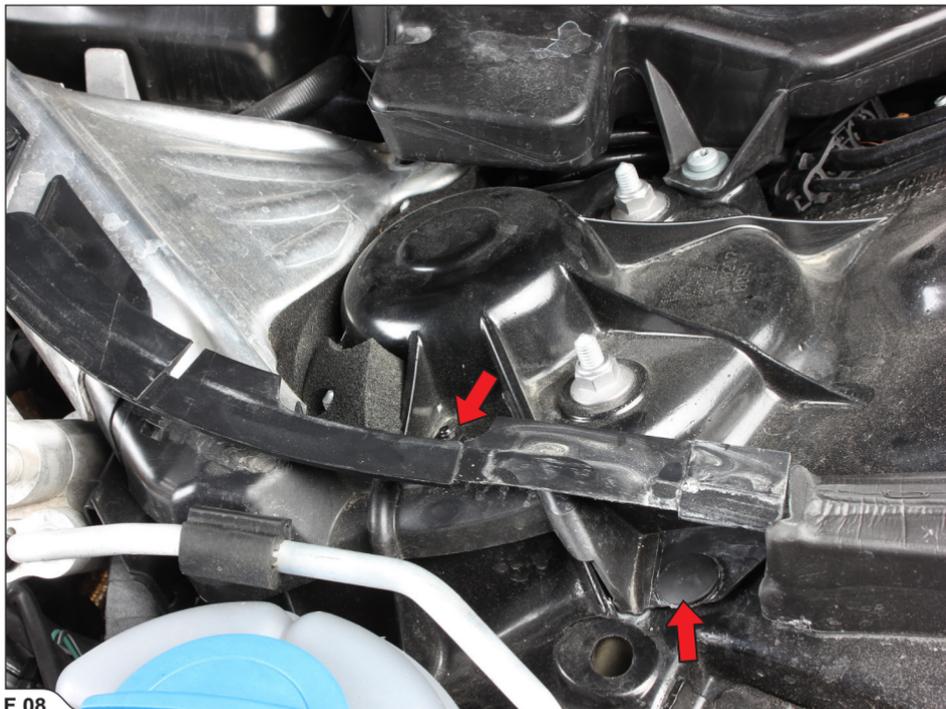
6. Unscrew the marked bolts (F 07).

! **CAUTION:** make sure not to injure yourself or damage any part of the vehicle during this process!



F 07

7. Unscrew the marked nuts, undo the marked clips and remove both fire wall trim brackets (F 08, 09).
- ! **CAUTION:** make sure not to injure yourself or damage any part of the vehicle during this process!



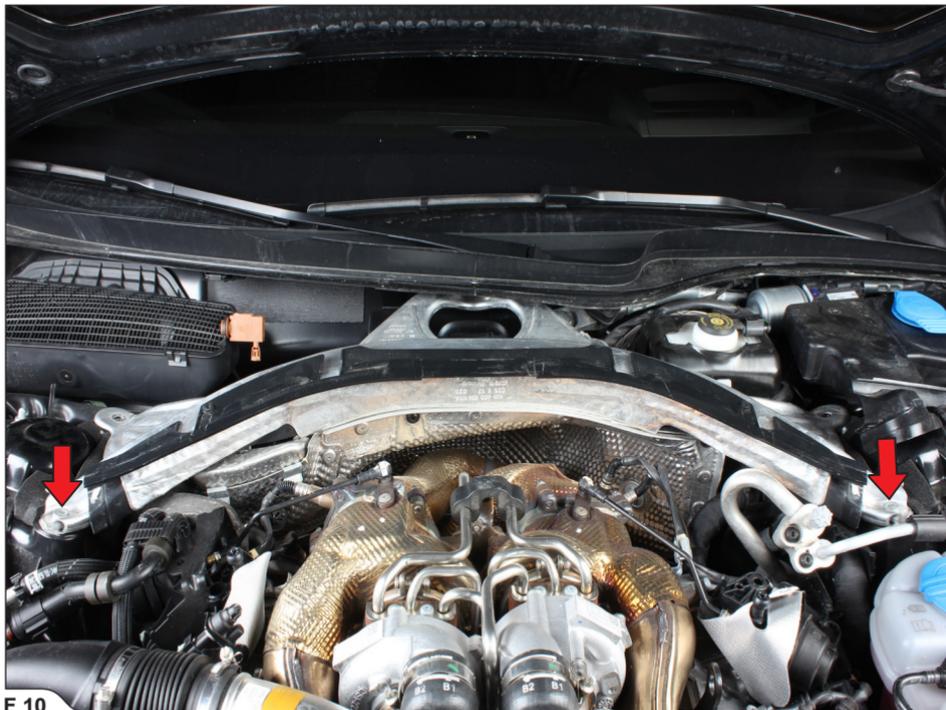
F 08



F 09

8. Unscrew the marked bolts (F 10, 11).

! **CAUTION:** make sure not to injure yourself or damage any part of the vehicle during this process!

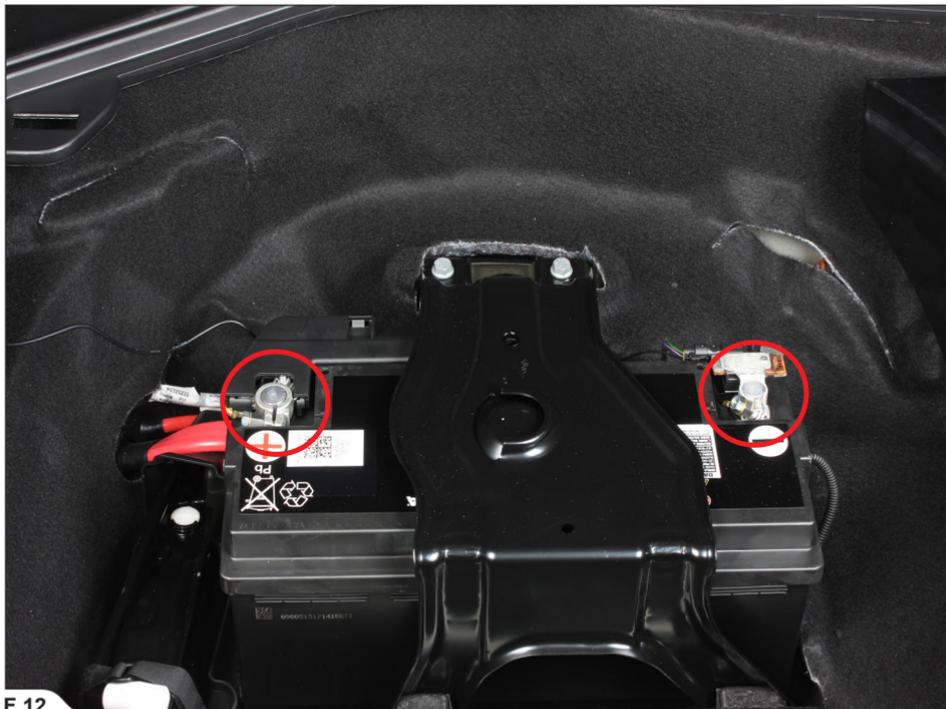


F 10



F 11

9. Disconnect the vehicle's battery; check the vehicle workshop manual for details (F 12).  
! **CAUTION:** make sure not to injure yourself or damage any part of the vehicle during this process!

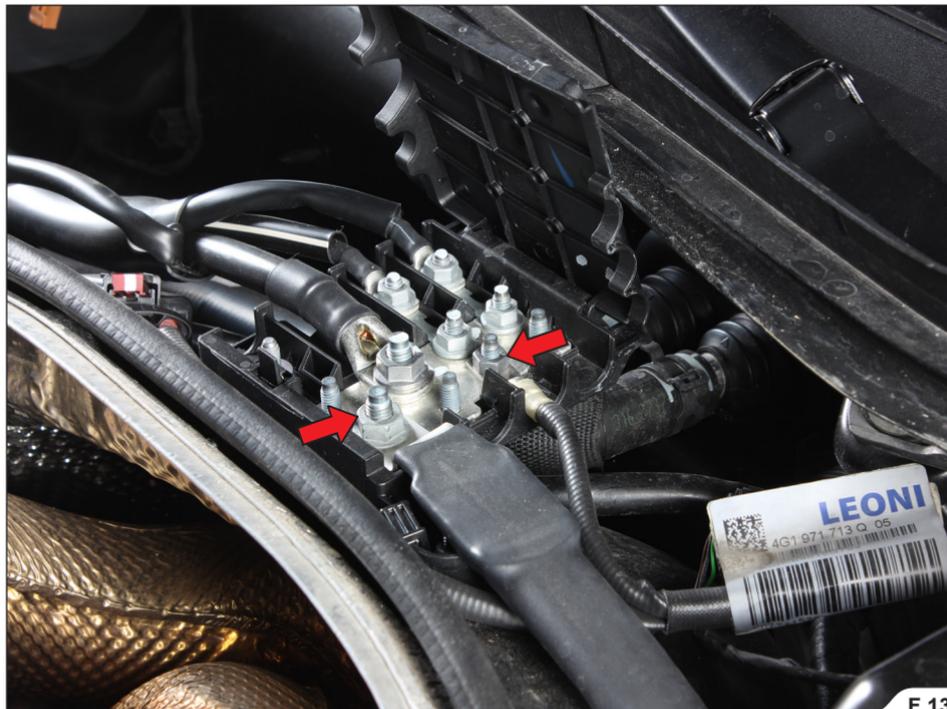


F 12

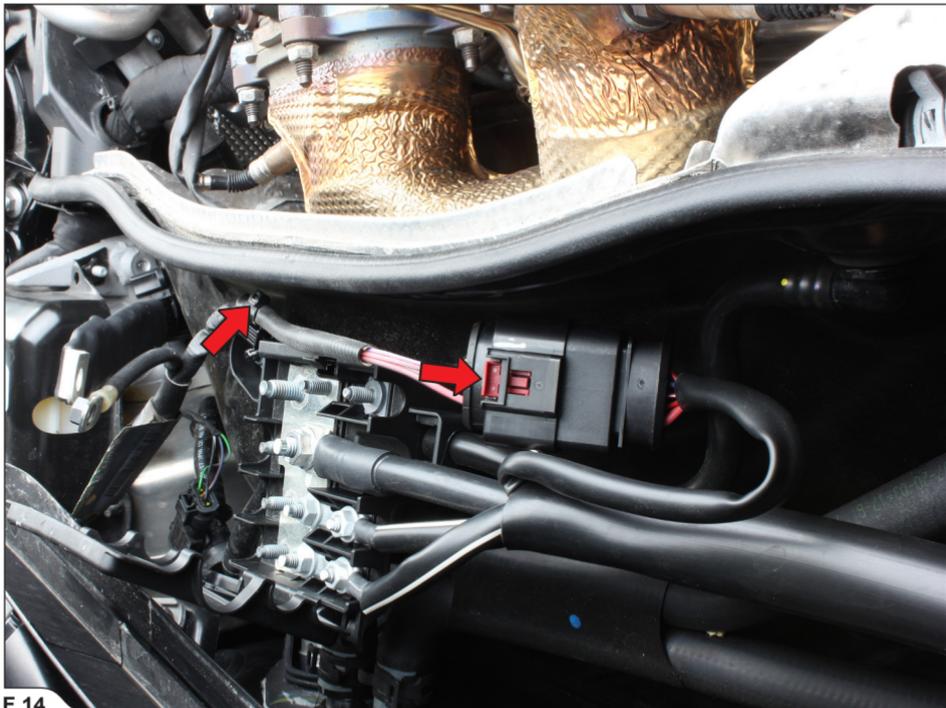
10. Unscrew the marked nuts, cut the marked tie wrap and disconnect the marked connector (F 13, 14).

! **IMPORTANT:** make sure, that battery is disconnected, before you start with this process!

! **CAUTION:** make sure not to injure yourself or damage any part of the vehicle during this process!



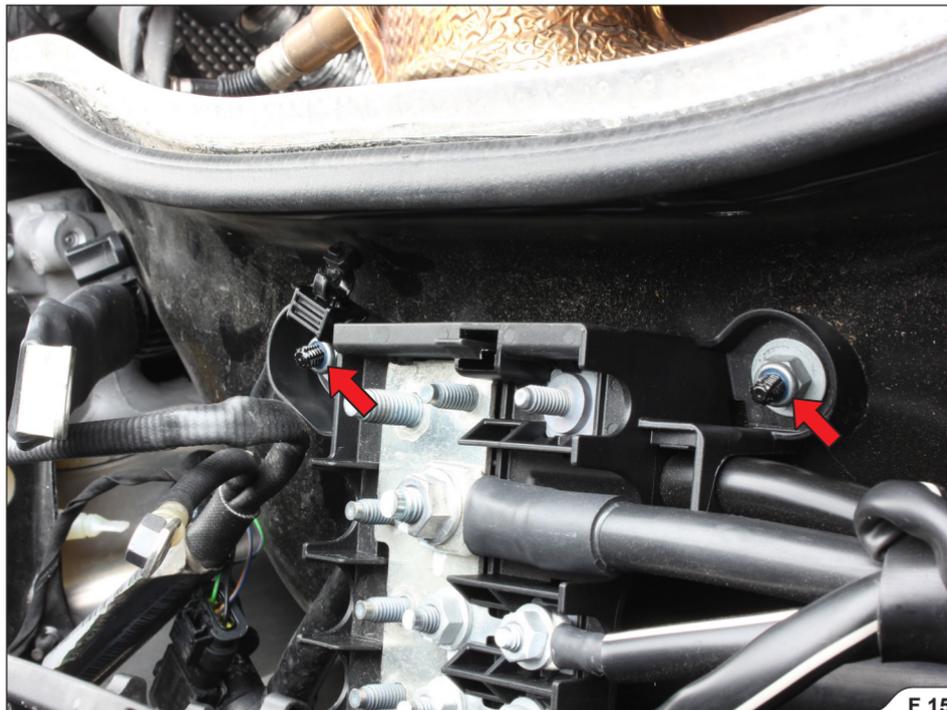
F 13



F 14

11. Unscrew the marked nuts and move the power supply connection box out of the way (F 15).

! **CAUTION:** make sure not to injure yourself or damage any part of the vehicle during this process!



F 15

12. Remove the marked heat shield (F 16).

! **CAUTION:** make sure not to injure yourself or damage any part of the vehicle during this process!



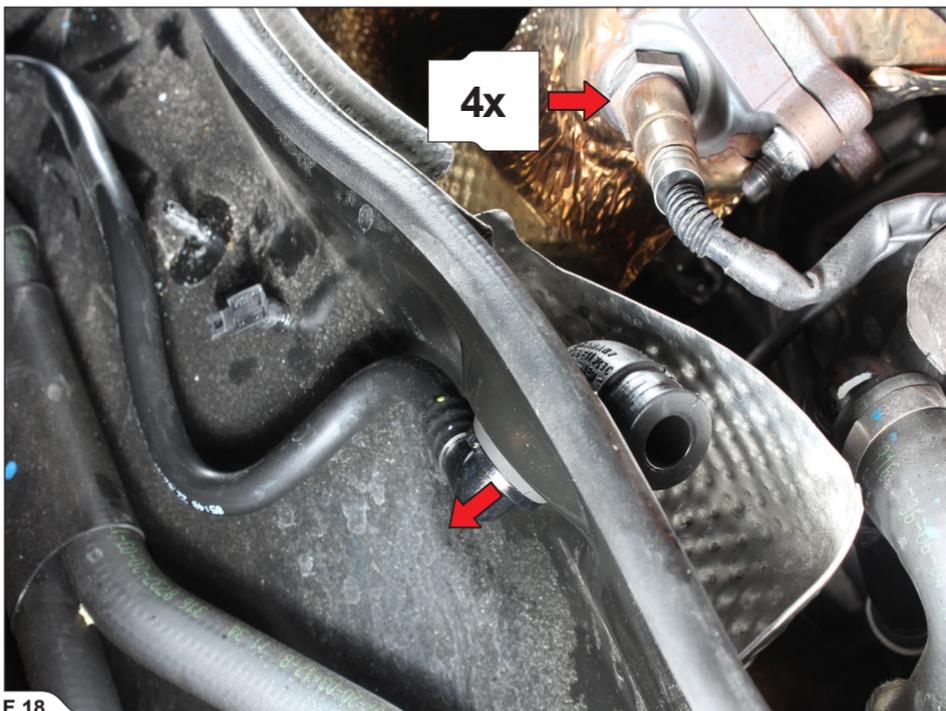
F 16

13. Undo the marked clamp, carefully pull both ends of the vacuum tube off the rubber connector and unscrew all four lambda sensors out of the downpipes (F 17, 18).

! **CAUTION:** make sure not to injure yourself or damage any part of the vehicle during this process!



F 17



F 18

14. Undo the marked heat shield fasteners and partially move the heat shield (F 19).

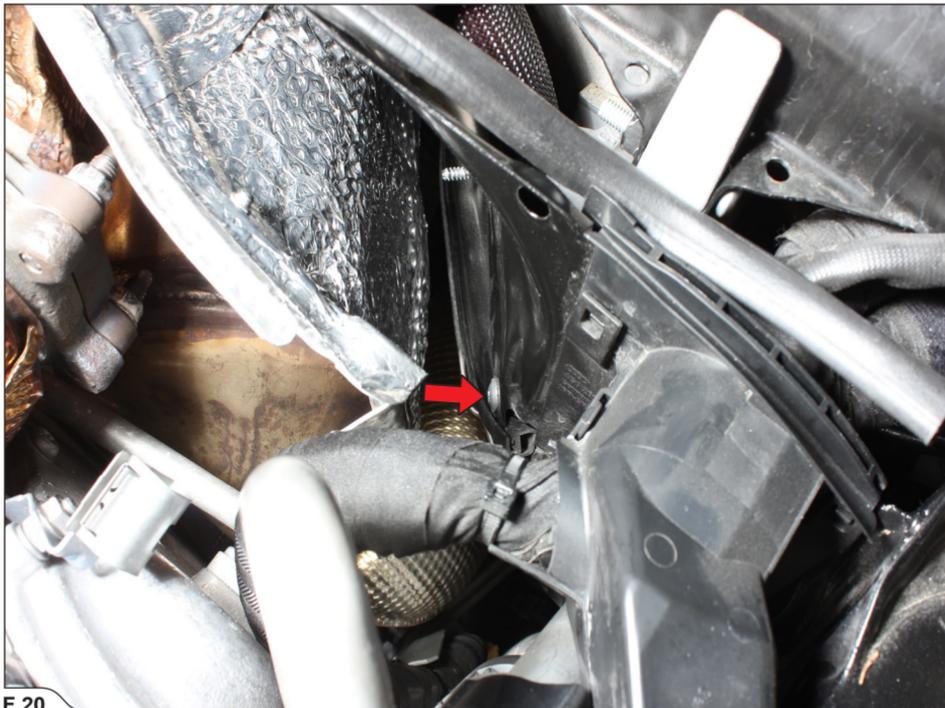
! **CAUTION:** make sure not to injure yourself or damage any part of the vehicle during this process!



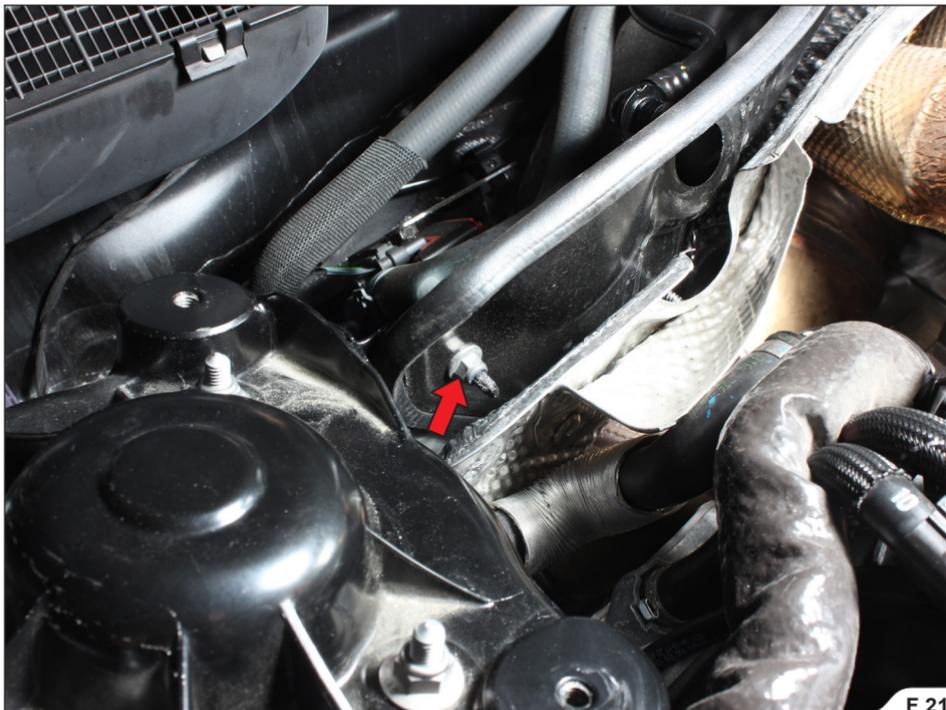
F 19

15. Unscrew the marked bolt and nut (F 20, 21).

! **CAUTION:** make sure not to injure yourself or damage any part of the vehicle during this process!



F 20



16. Remove the marked cable fastener and carefully remove the fire wall out of the engine compartment (F 22).

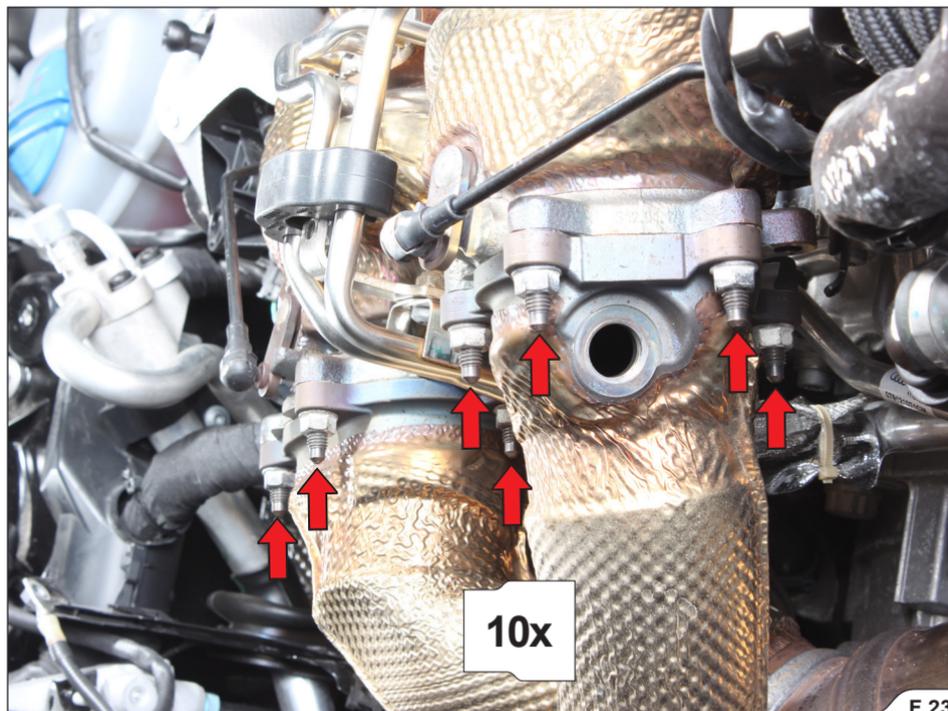
! **CAUTION:** make sure not to injure yourself or damage any part of the vehicle during this process!



F 22

17. Unscrew all down pipes' nuts (F 23).

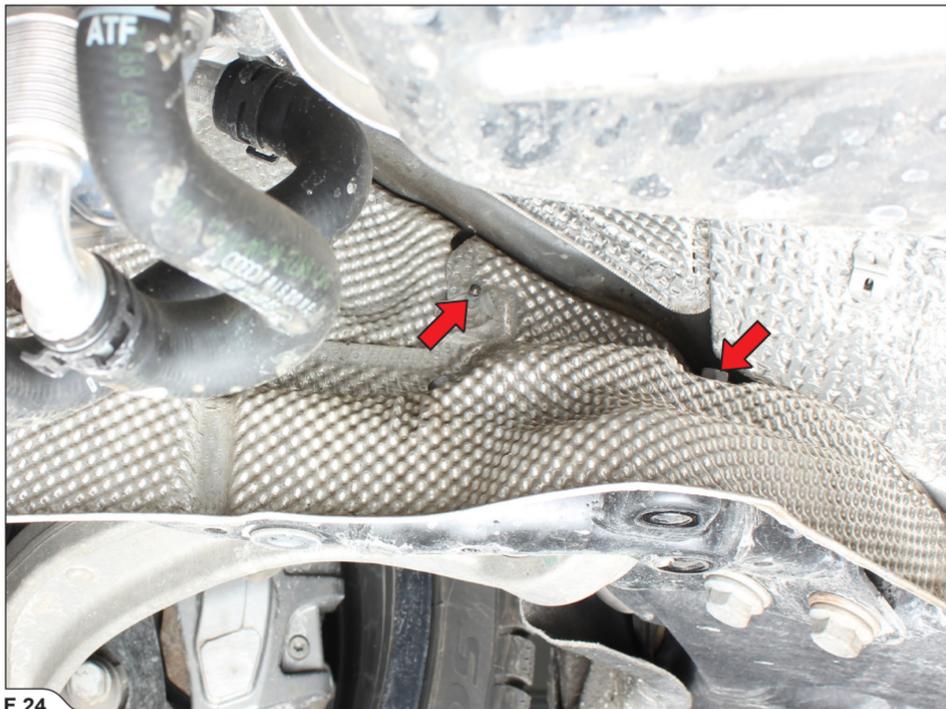
! **CAUTION:** make sure not to injure yourself or damage any part of the vehicle during this process!



F 23

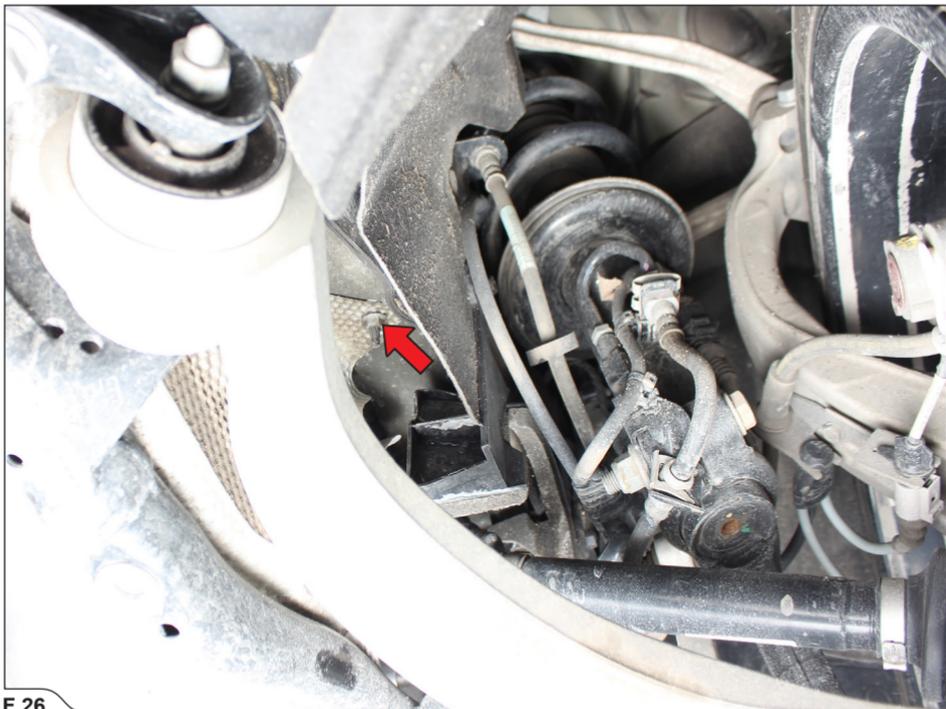
18. Unscrew the marked bolts and nuts and carefully remove the right side undercarriage heat shield (F 24, 25, 26).

! **CAUTION:** make sure not to injure yourself or damage any part of the vehicle during this process!



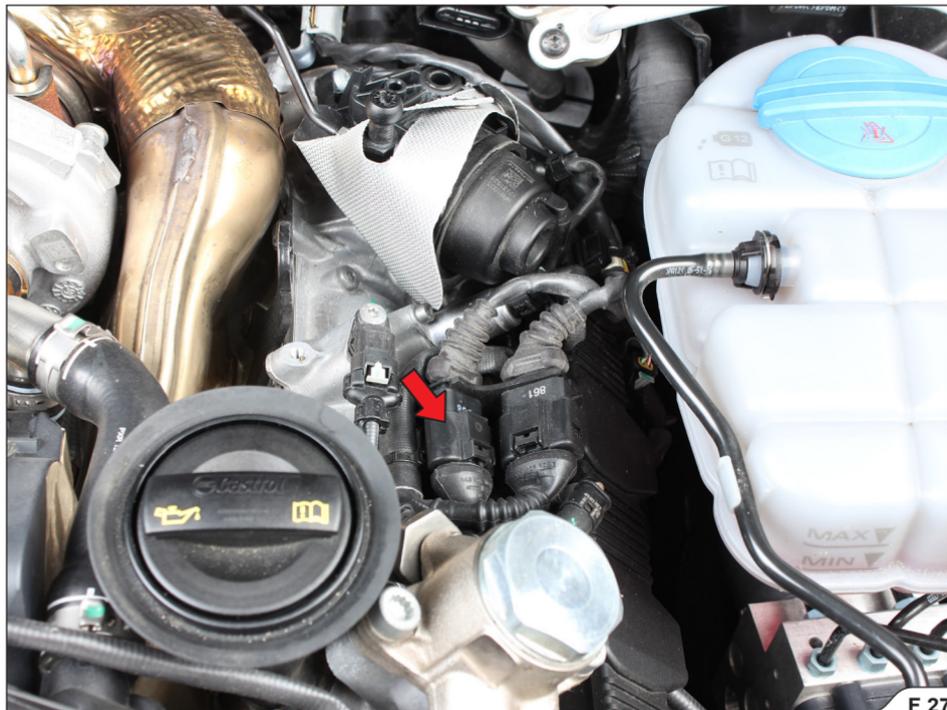
F 24





F 26

19. Remove the marked lambda sensor's connector out of the bracket and disconnect it (F 27, 28).  
**!** CAUTION: make sure not to injure yourself or damage any part of the vehicle during this process!



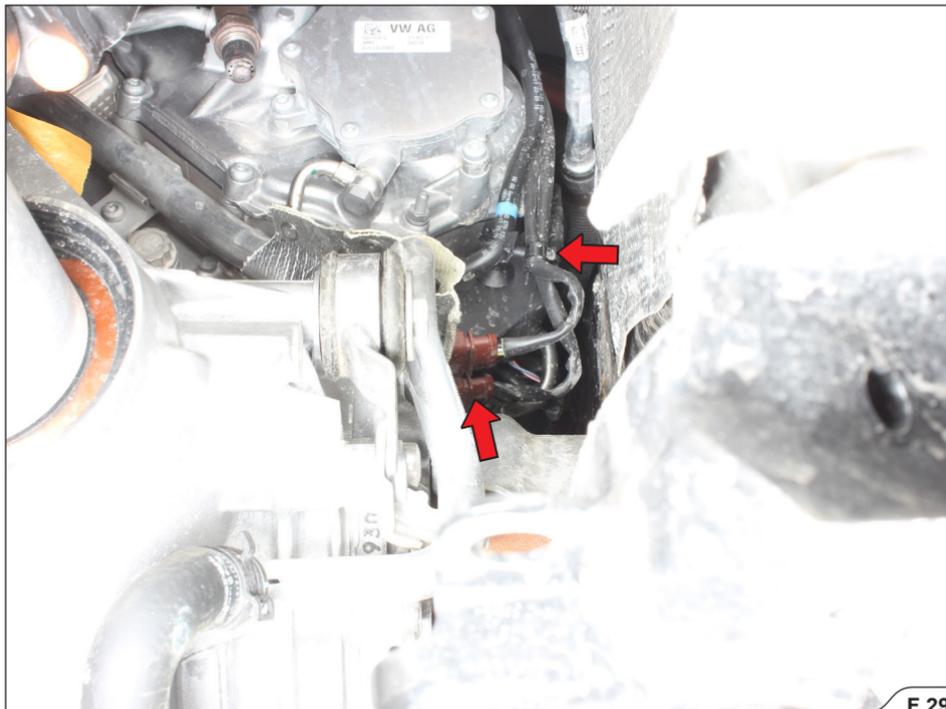
F 27

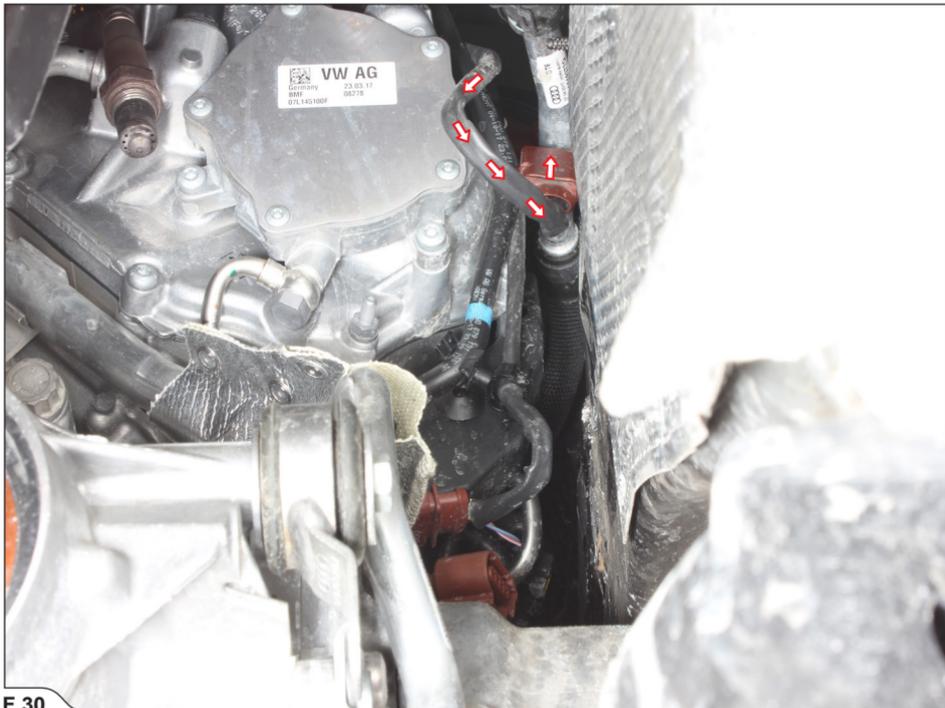


F 28

20. Under the right side of the engine, cut the marked tie wrap, disconnect the marked lambda sensor's connector and lead the connector on top of the engine (F 29, 30).

! **CAUTION:** make sure not to injure yourself or damage any part of the vehicle during this process!

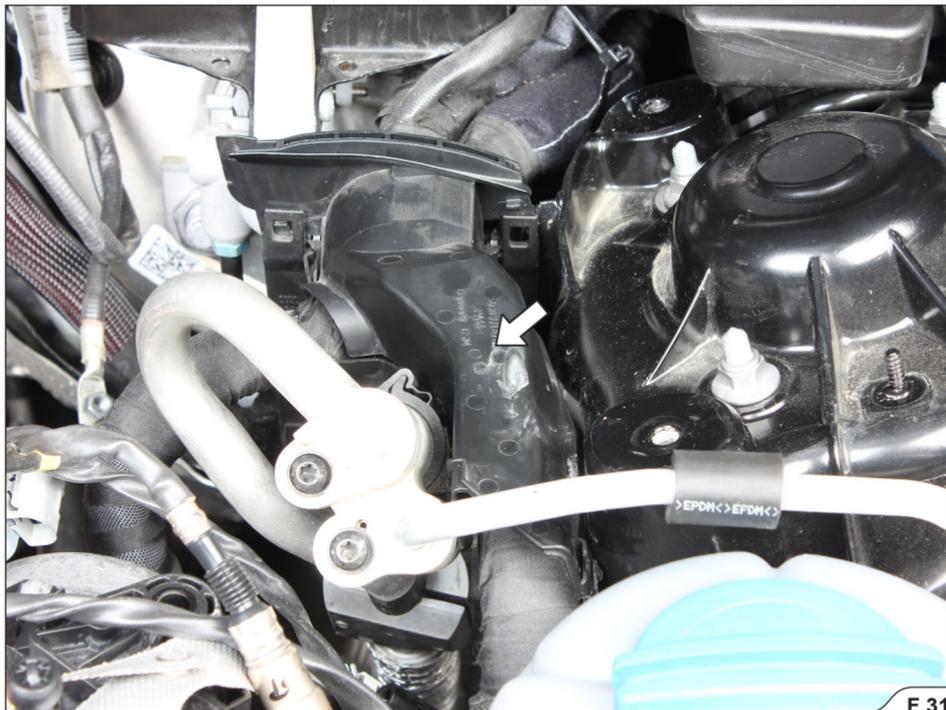




F 30

21. Remove the marked cable cover (F 31).

! **CAUTION:** make sure not to injure yourself or damage any part of the vehicle during this process!



F 31

## INSTALLATION OF THE AKRAPOVIČ EXHAUST SYSTEM:

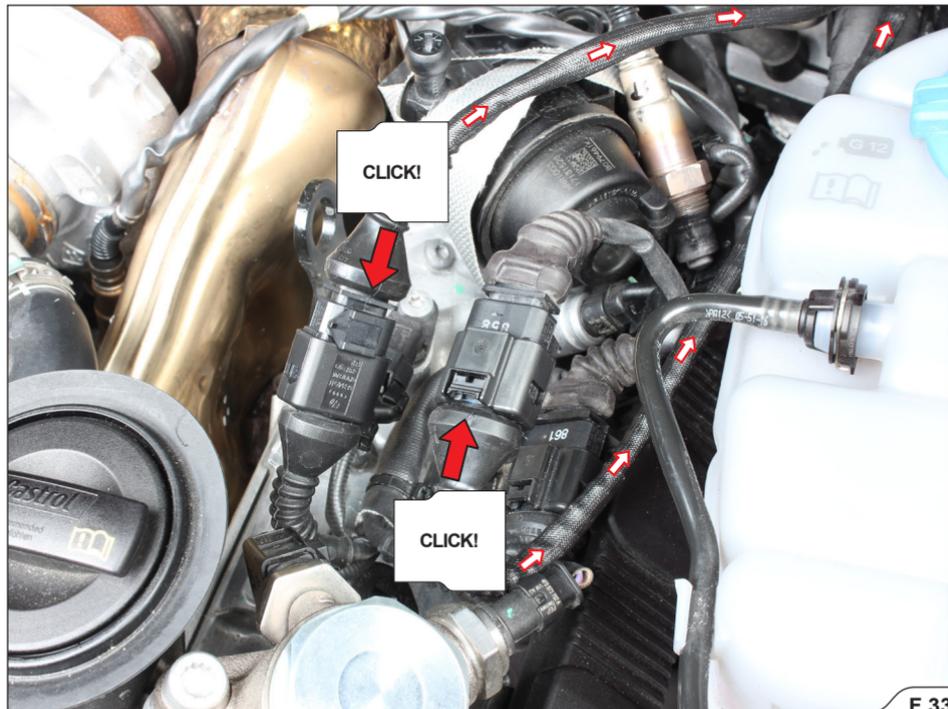
1. Lambda sensor extension cables (F 32).

**!** **IMPORTANT:** the lambda sensor extension cables are intended for lambda oxygen downstream sensor bank 2, since Akrapovič Downpipes don't cross as the stock do!



F 32

2. Connect the cable extension black connectors to the stock lambda connectors, as shown (F 33).  
**!** **CAUTION:** make sure not to injure yourself or damage any part of the vehicle during this process!



3. Lead and distribute the extension cables, as shown (F 34).

! **CAUTION:** make sure not to injure yourself or damage any part of the vehicle during this process!



F 34

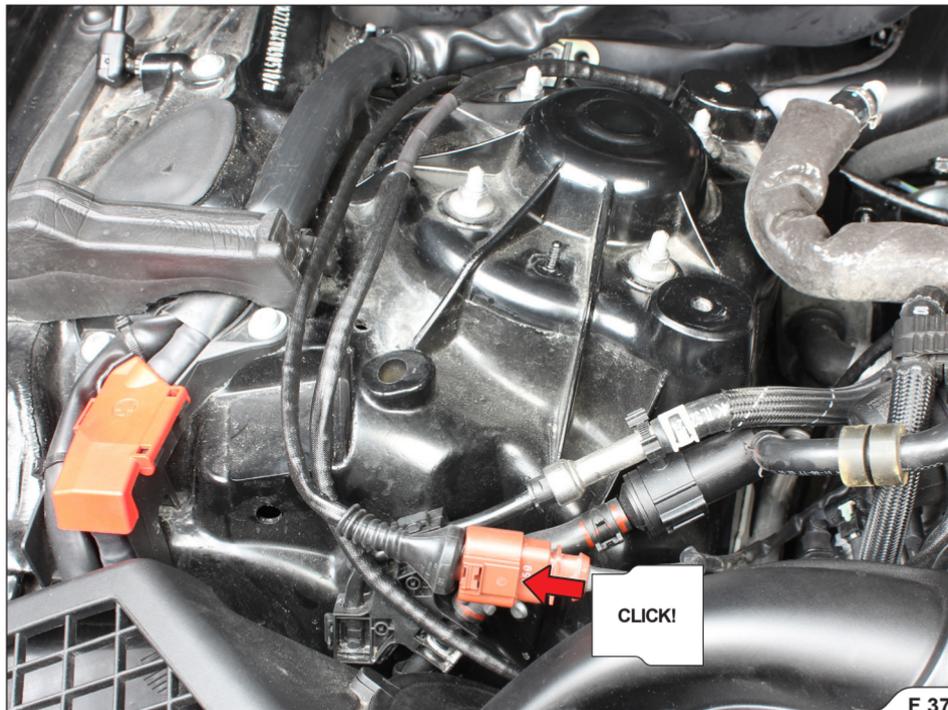
4. Connect the cable extension brown connectors to the stock lambda connectors and secure the connectors and cables (using tie wraps from Akrapovič installation kit), as shown (F 35, 36, 37, 38, 39, 40).

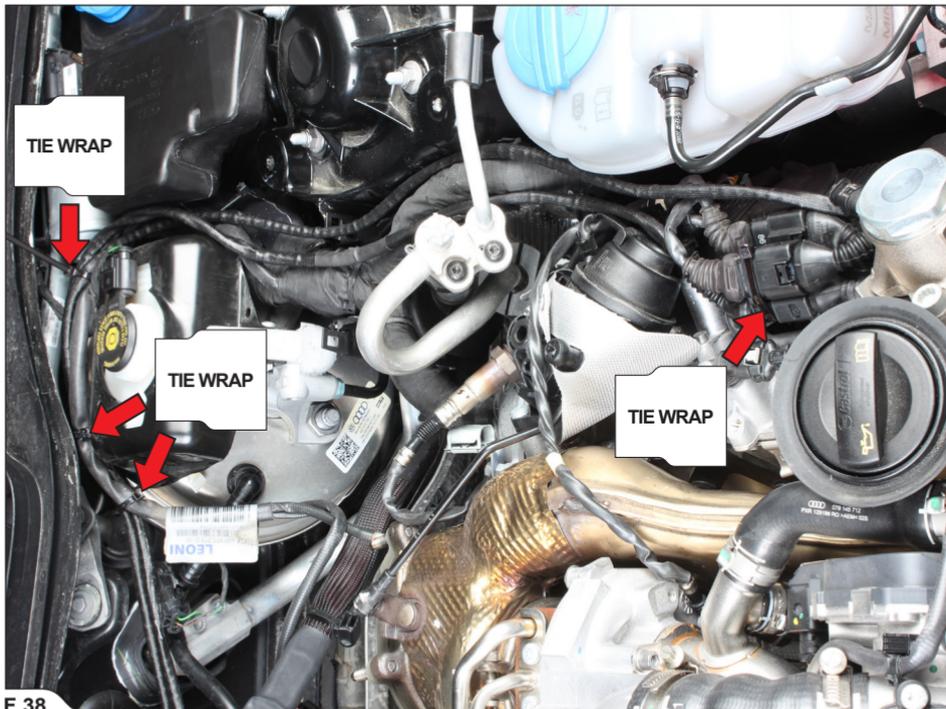
**!** **IMPORTANT:** make sure to secure the wiring harness in such a way, that they won't touch any hot or moving parts of the vehicle!



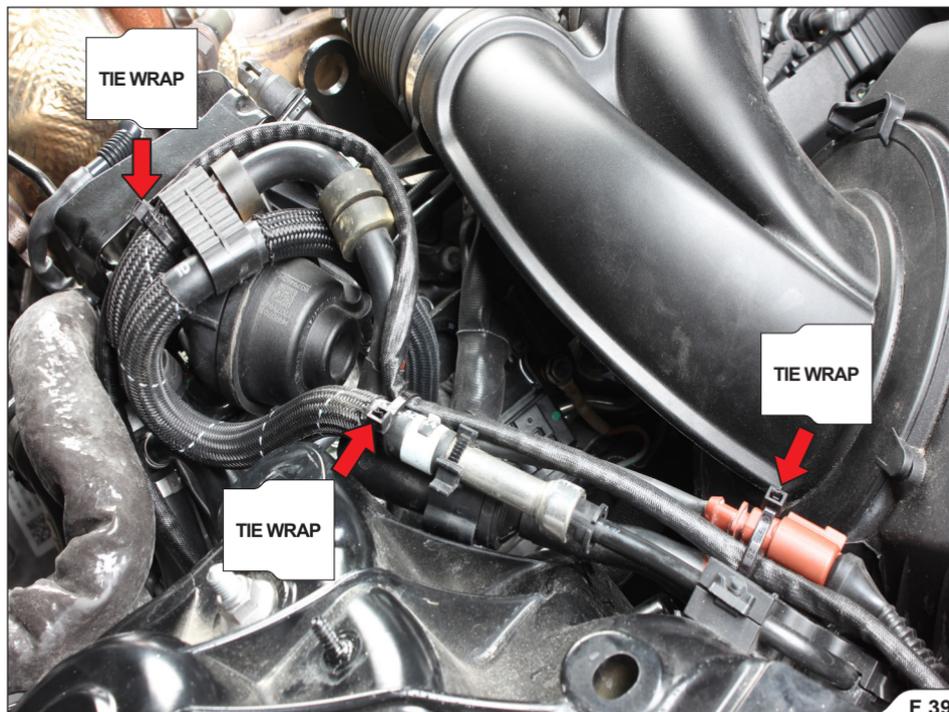


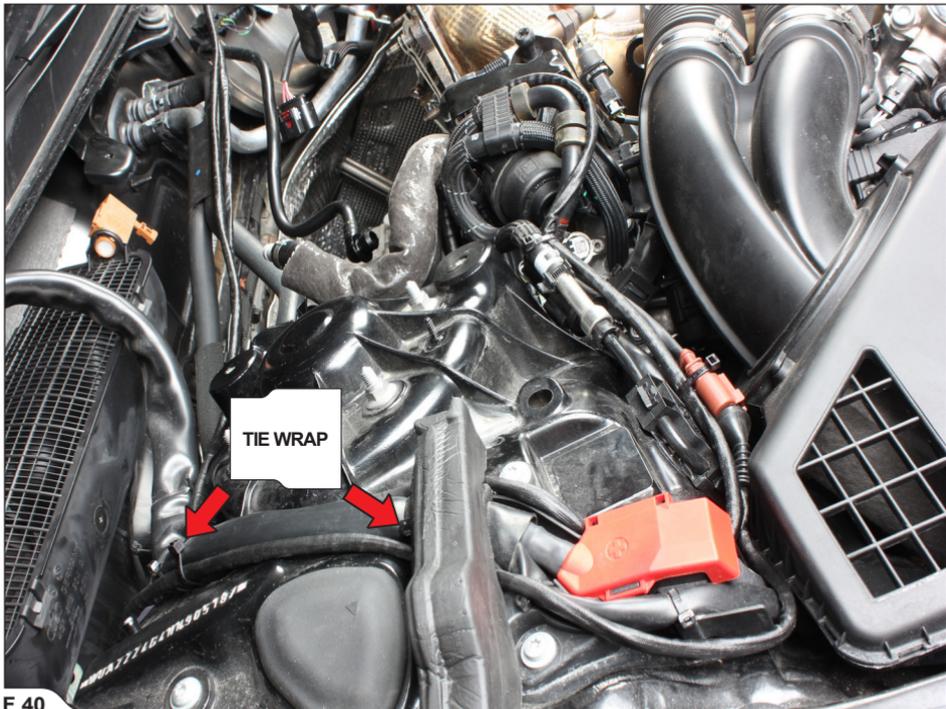
F 36





F 38

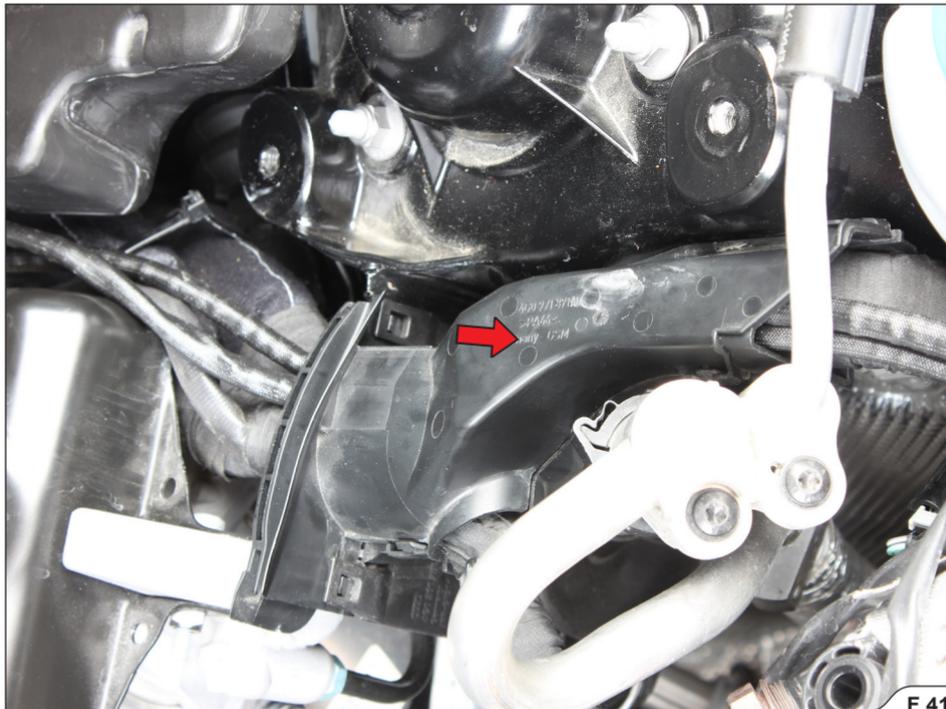




F 40

5. Reinstall the cable cover (F 41).

**!** **CAUTION:** make sure not to injure yourself or damage any part of the vehicle during this process!



F 41

6. Carefully install the Akrapovič Downpipes into the engine compartment and hand tighten them onto the turbochargers, using stock nuts (**F 42, 43**).

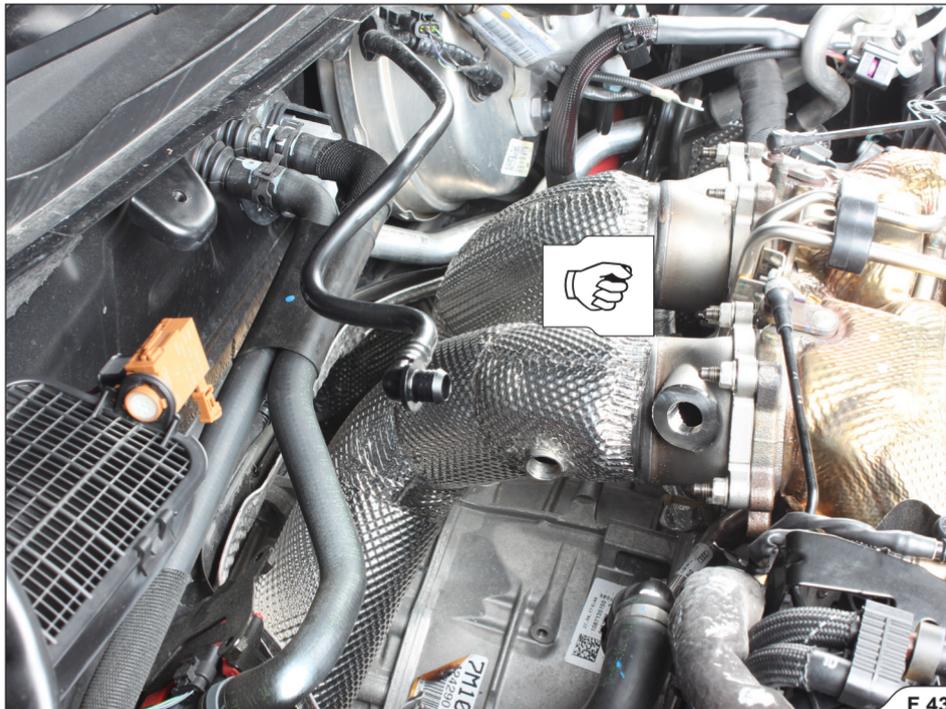
! **IMPORTANT:** we advise, that you use new stock gaskets and new stock nuts in turbochargers - Downpipes joints.

! **CAUTION:** make sure not to injure yourself, damage the exhaust system or any part of the vehicle during this process!



F 42

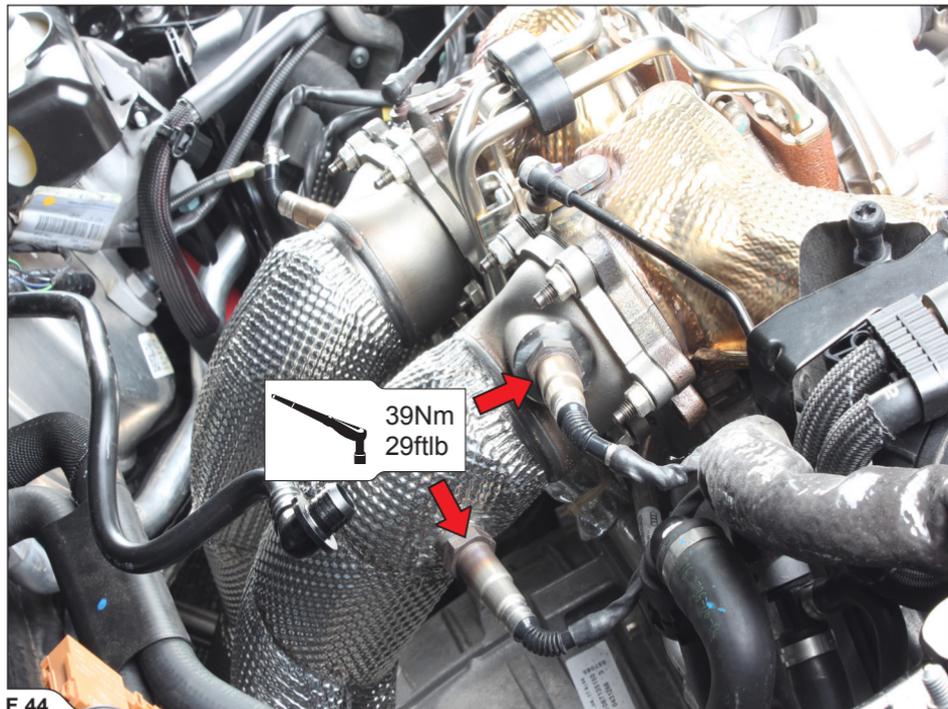
**! IMPORTANT: hand tighten the nuts only; do not fully tighten them yet!**



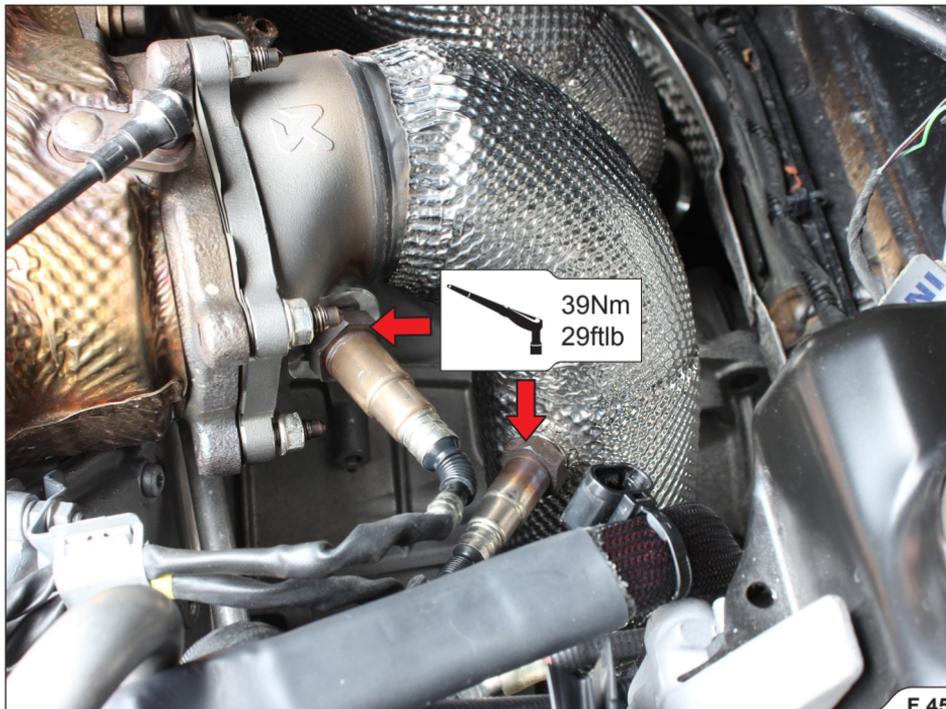
F 43

7. Tighten all four lambda sensors to the specified torque (**F 44, 45**).

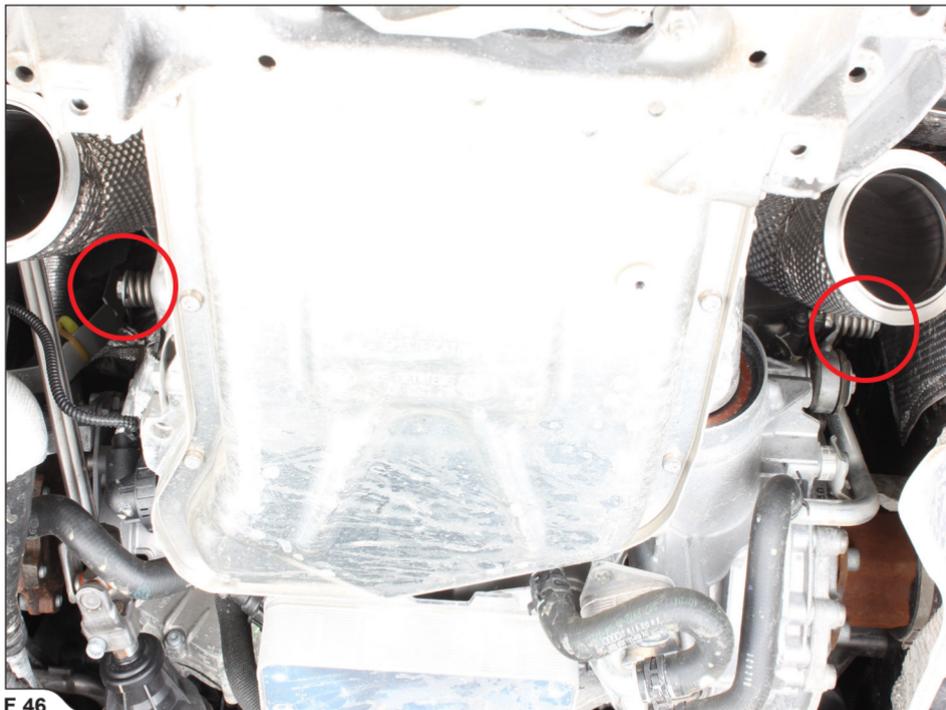
**!** **CAUTION:** make sure not to injure yourself or damage any part of the vehicle during this process!



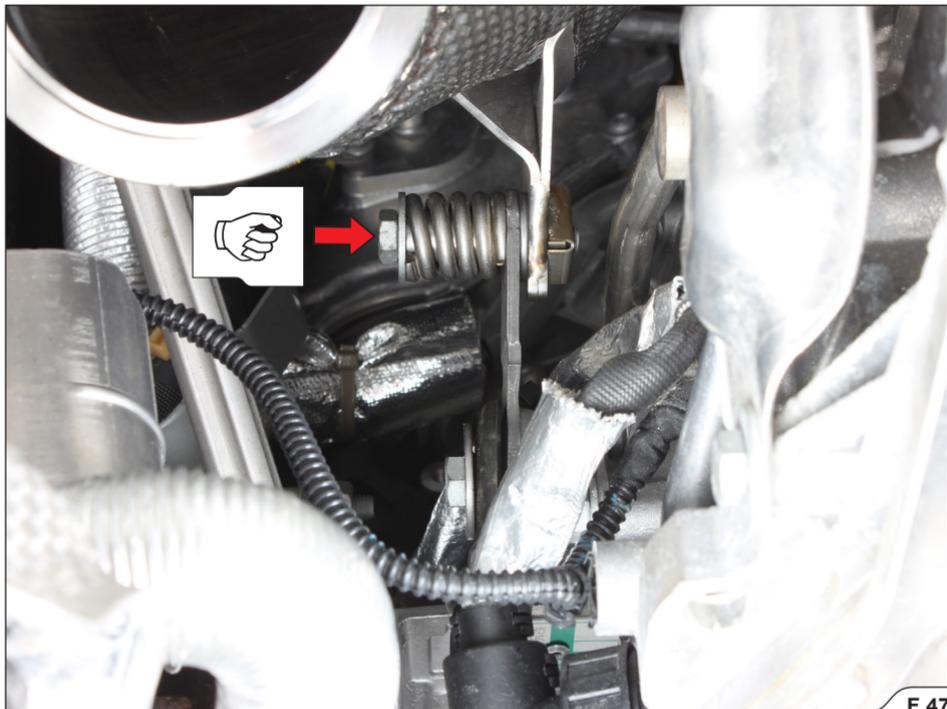
F 44



8. Hand tighten the Downpipes' brackets, using stock bolts and springs (F 46, 47).  
! **CAUTION:** make sure not to injure yourself or damage any part of the vehicle during this process!



F 46

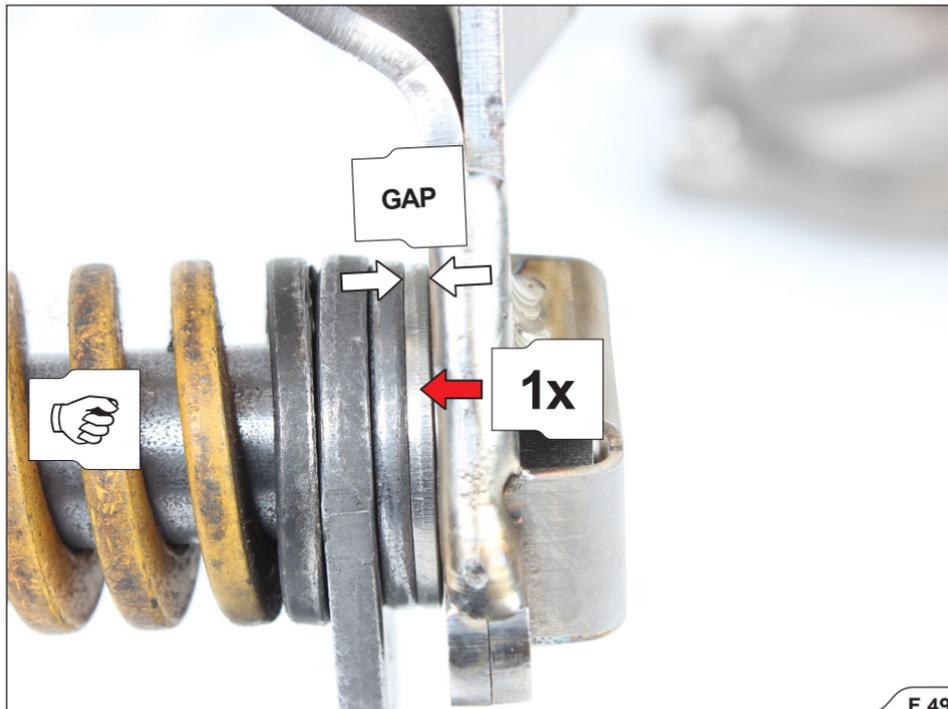


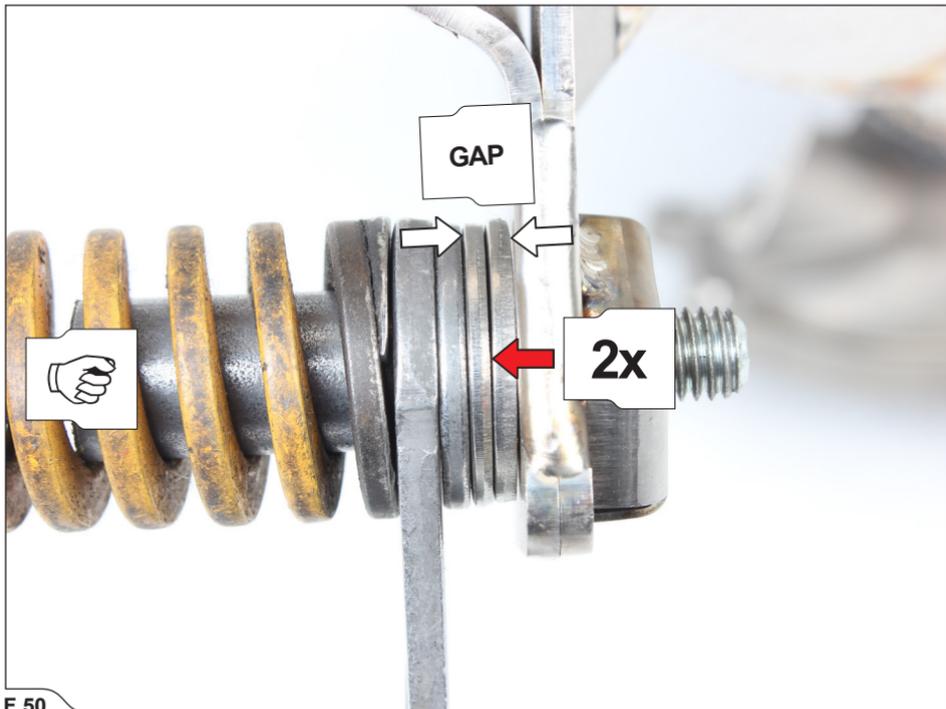
9. **In case of the gap between the Downpipes' bracket and stock bracket:** hand tighten the Downpipes' brackets, using stock springs and bolts and washers from Akrapovič installation kit; in respect to the gap, use one or two washers (**F 48, 49, 50**).

**!** **CAUTION:** make sure not to injure yourself or damage any part of the vehicle during this process!



F 48

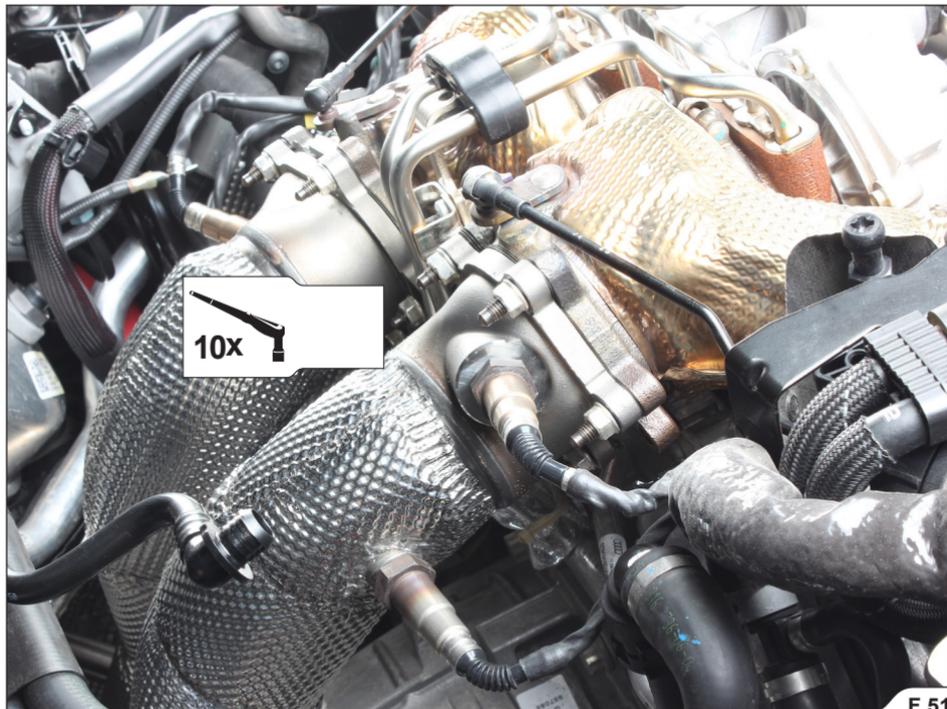




F 50

10. Tighten all Downpipes nuts to the specified torque; check vehicle manufacturer work shop manual for the correct procedure and tightening torque (F 51).

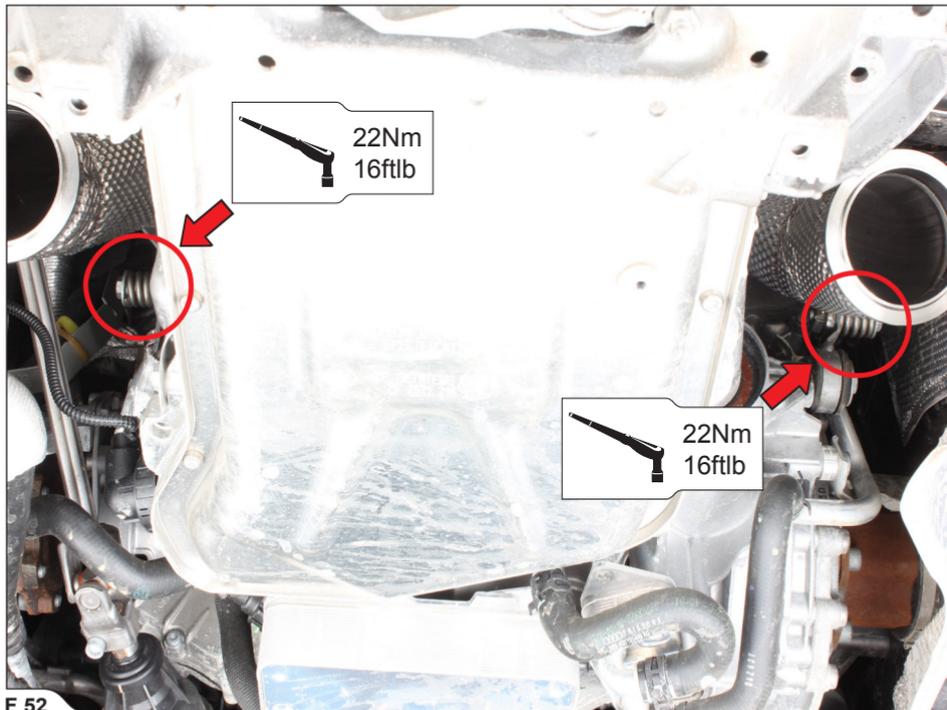
! **CAUTION:** make sure not to injure yourself, damage the exhaust system or any part of the vehicle during this process!



F 51

11. Tighten the Downpipes' brackets to the specified torque (**F 52**).

**!** CAUTION: make sure not to injure yourself or damage any part of the vehicle during this process!

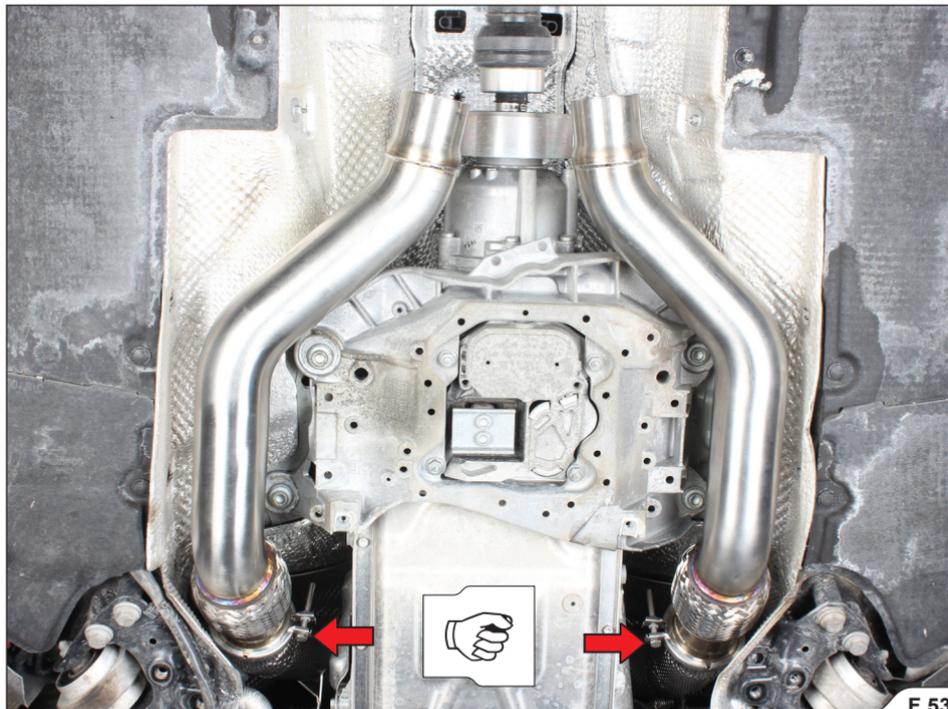


F 52

12. Install the Link pipes as shown, using clamps from Akrapovič installation kit; hand tighten the clamps only (F 53).

! **IMPORTANT:** hand tighten the clamps only; do not fully tighten them yet!

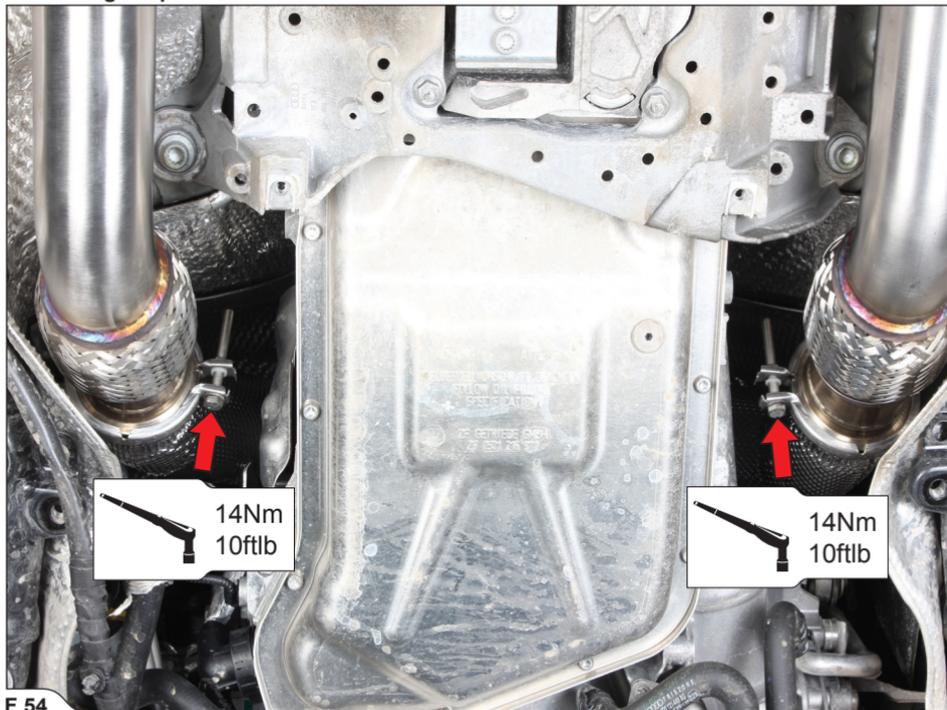
! **CAUTION:** make sure not to injure yourself or damage any part of the vehicle during this process!



F 53

13. Reinstall the exhaust system; check the **Evolution** exhaust system installation manual for details.
14. Tighten the clamps to the specified torque (**F 54**).

! **CAUTION: make sure not to injure yourself, damage the exhaust system or any part of the vehicle during this process!**



F 54

## FINAL INSTALLATION:

- ! **IMPORTANT:** reinstall the dismantled or partially removed stock parts (wheel arches, bumper etc.); check vehicle manufacturer manual for tightening torques.
- ! **IMPORTANT:** make sure all the nuts and bolts are sufficiently tightened. In case the exhaust system touches the cowlings or other parts, repeat the adjustment of the exhaust system or contact your authorized dealer.
- ! **IMPORTANT:** clean all exhaust components before the first start of the engine or the stains will burn onto the surfaces!

## MAINTENANCE OF THE AKRAPOVIČ EXHAUST SYSTEM:

1. Clean the titanium exhaust components with a multi-purpose spray lubricant (WD-40<sup>®</sup> or equivalent)\*, carbon fiber exhaust components with soft and dry cloth and stainless steel components with soft cloth sprayed with contact cleaner, then wipe with soft and dry cloth. A change in the color of the exhaust system is normal due to high temperatures.
2. Periodically make sure all the bolts and springs are sufficiently tight.

\*WD-40<sup>®</sup> is a trademark of the WD-40 Company.

**⚡ INSTALLATION TIP: IT IS NORMAL FOR WHITE SMOKE TO COME OUT OF THE MUFFLER AT FIRST OPERATION.**

- ! **CAUTION: DO NOT STAND BEHIND THE MUFFLER AT ANY TIME.**
- ! **CAUTION: DO NOT USE AUTOMOTIVE WHEEL CLEANERS OR ANY CLEANING PRODUCTS WHICH CONTAIN ACIDIC ADDITIVES TO CLEAN THE AKRAPOVIČ EXHAUST SYSTEMS.**

**WARNING: THE EXHAUST SYSTEM CAN BE EXTREMELY HOT. ALLOW THE EXHAUST AND ENGINE TO COOL DOWN BEFORE BEGINNING INSTALLATION OR ANY OTHER WORK ON THE EXHAUST SYSTEM. THIS MANUAL IS SPECIFIC TO THE AUDI RS6 TYPE C7. THERE MAY BE SOME DIFFERENCES IN INSTALLATION PROCEDURES FOR OTHER MODELS.**

## TROUBLESHOOTING:

Problem	Possible cause	Solution
Exhaust gas leaks out of the pipe clamp connections	loosened clamp	tighten the clamp to specified torque
	connection is not completely joined	tap the connection into place and tighten the clamp to specified torque

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