



## Installation instructions

Akrapovič Exhaust System:

**Slip-On**

for the

**BMW X5M** (type F95)

**BMW X6M** (type F96)

## SAFETY AND COMPLIANCE WARNING, PLEASE READ CAREFULLY

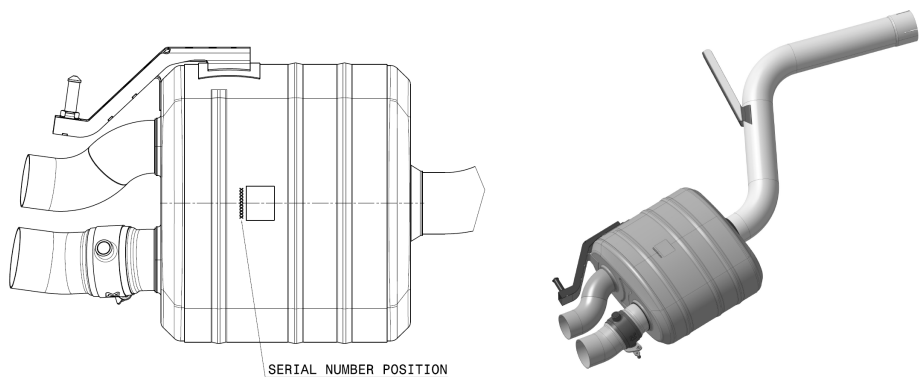
**BEFORE REMOVING THE STOCK EXHAUST SYSTEM AND BEGINNING THE INSTALLATION OF YOUR NEW AKRAPOVIČ EXHAUST, PLEASE MAKE SURE THAT ALL ITEMS LISTED BELOW ARE VERIFIED:**

- 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. 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 \_\_\_\_\_ 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. 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 catalysts. 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 catalysts 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.**

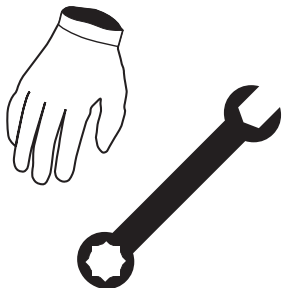


### USE ANTI-SEIZING GREASE (white tube)

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
- Pipe cutting tool
- Torx 40
- Socket 13 mm
- Socket 15 mm
- Socket 16 mm
- Socket 17 mm
- Socket 18 mm
- T-handle 8 mm wrench
- T-handle 10 mm wrench
- T-handle 13 mm wrench
- Rubber bracket unhooking tool
- Crosshead screwdriver
- Cutting nippers

## PARTS LIST

The following parts should be found in the box:

- Installation Manual
- 
- Warranty
- Fitting material
- , pipes, Carbon Fiber components or Sound Kit components

**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

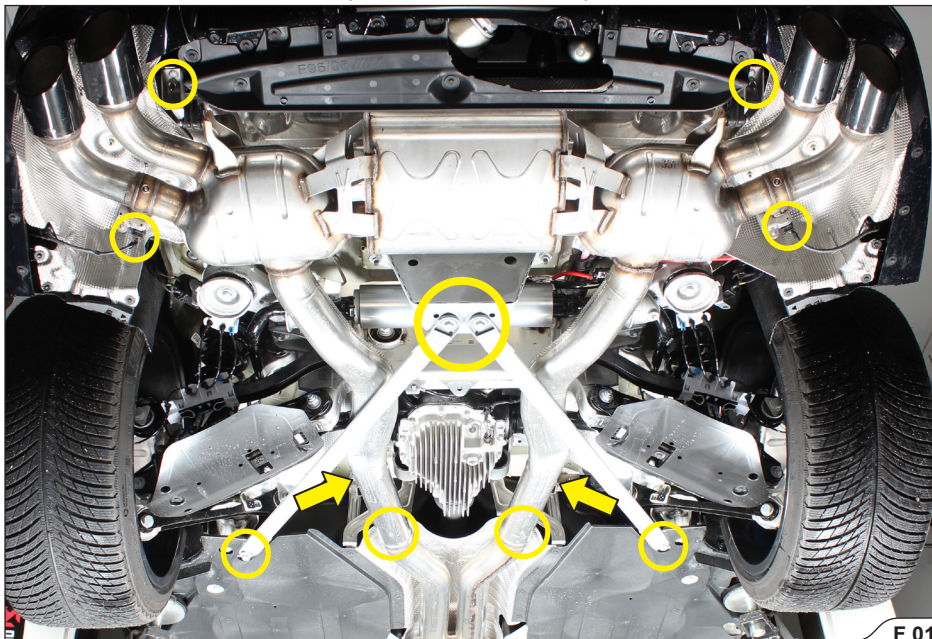
**In case your Akrapovič exhaust system may not be used on certain roads or under certain conditions, please keep the stock or other exhaust system that you can use in such circumstances legally.**

## REMOVAL OF STOCK EXHAUST SYSTEM:

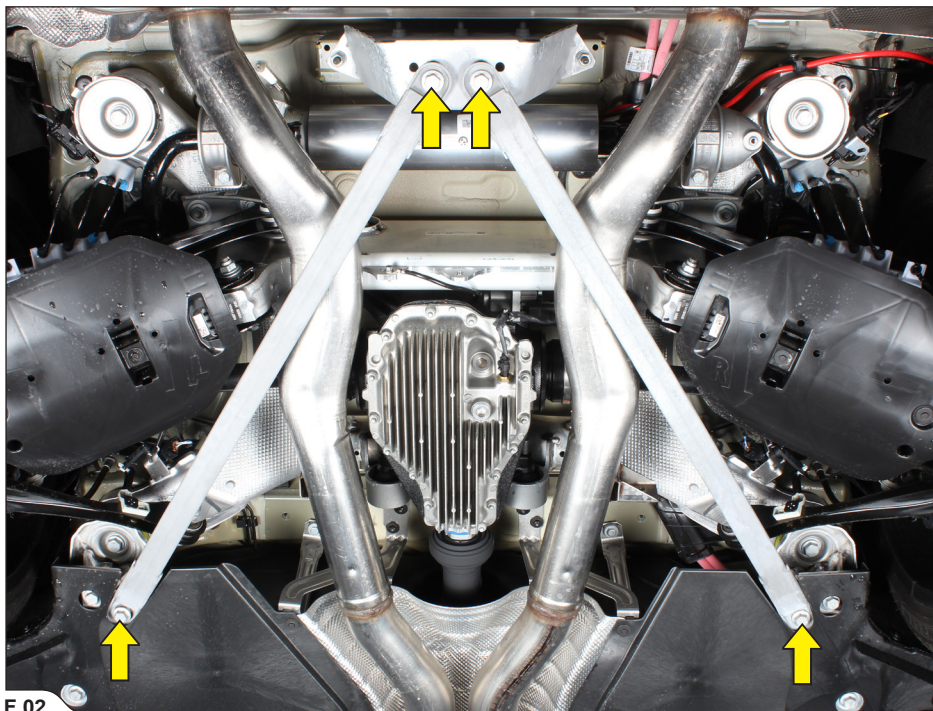
Put the vehicle onto a car lift.

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

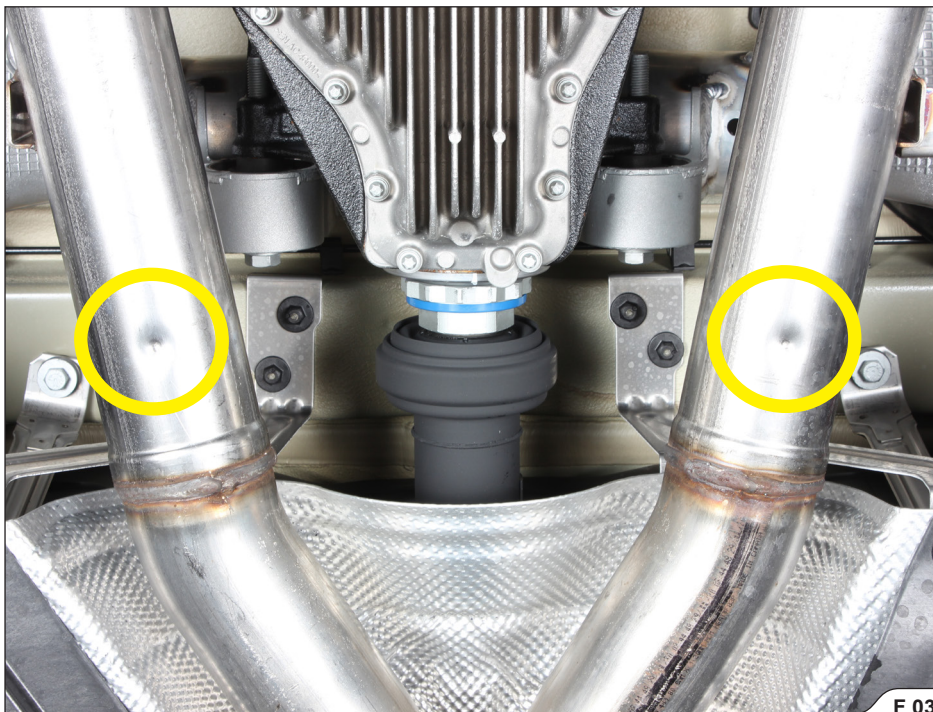
1. Unscrew the marked bolts, remove the chassis reinforcement, mark the exhaust system at the impressed dots, as shown, carefully cut the pipes at the cutting lines, unscrew the inlet pipes' rubber brackets, disconnect the exhaust valve connectors, unscrew the 's rubber brackets and carefully (F 01, 02, 03, 04, 05, 06, 07).



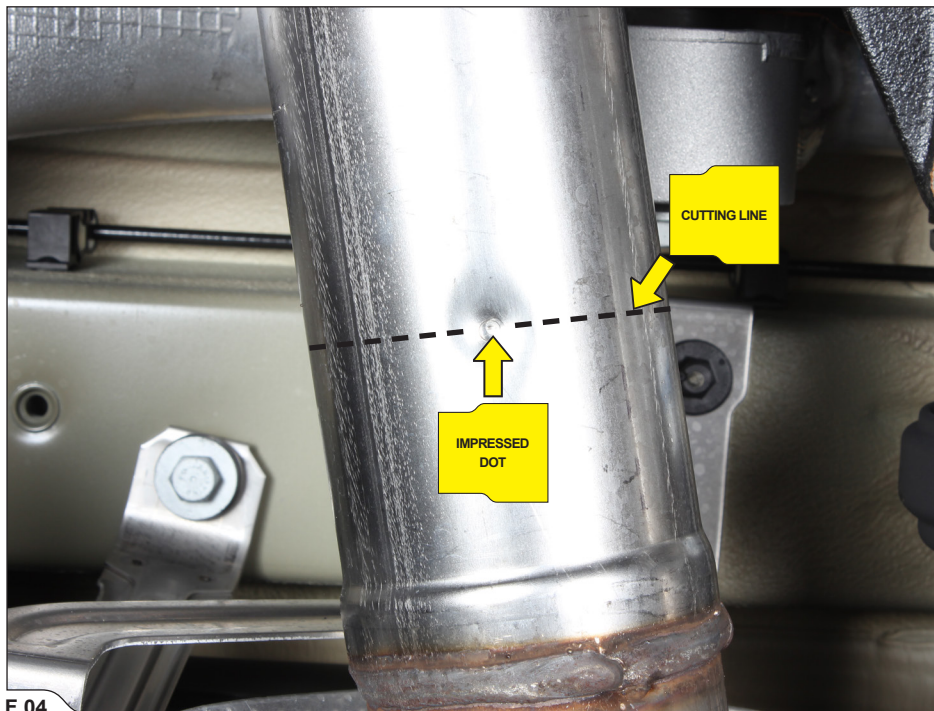
! CAUTION: make sure not to injure yourself or damage any part of the vehicle during this process!



F 02



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



F 04

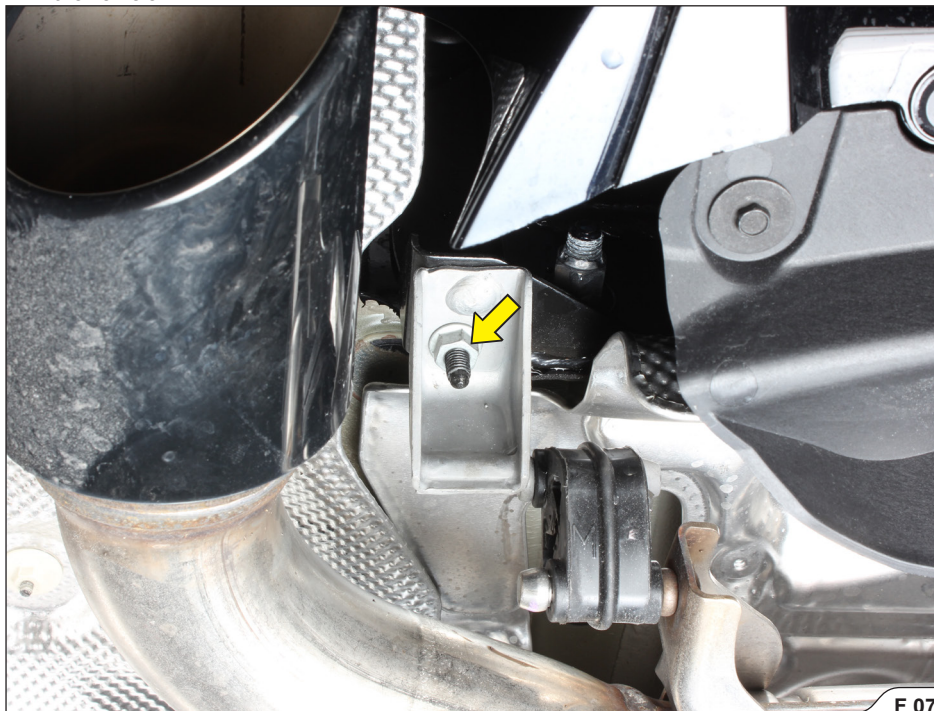
**!** CAUTION: support the muffler during this process or you could injure yourself or damage the vehicle!





F 06

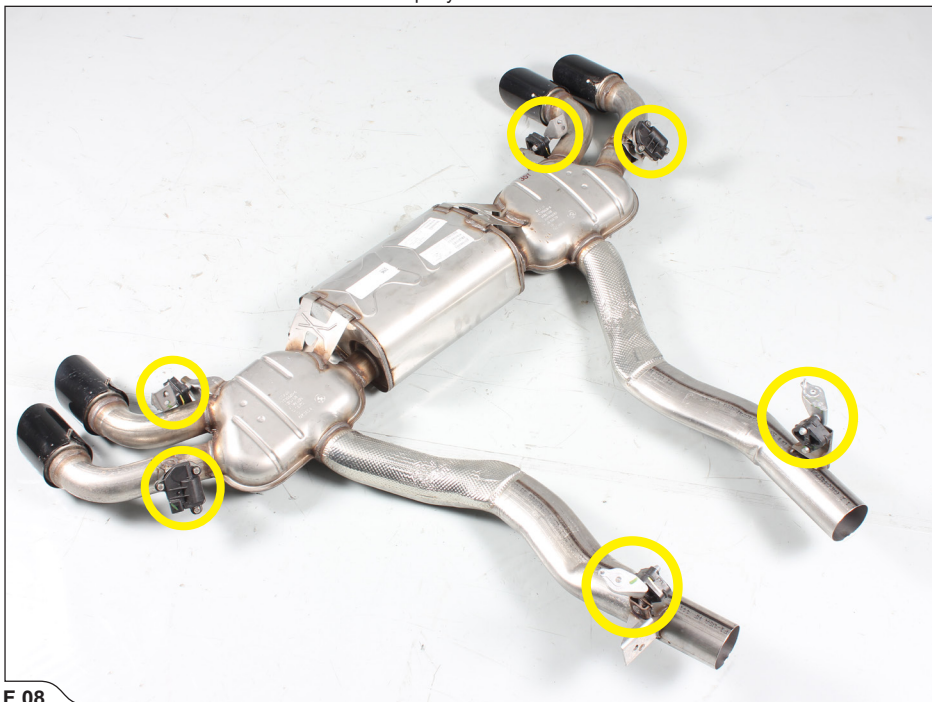
**!** CAUTION: support the muffler during this process or you could injure yourself or damage the vehicle!



2. Carefully remove the rubber brackets and unscrew exhaust valves' servo motors the stock exhaust system (F 08, 09, 10, 11).

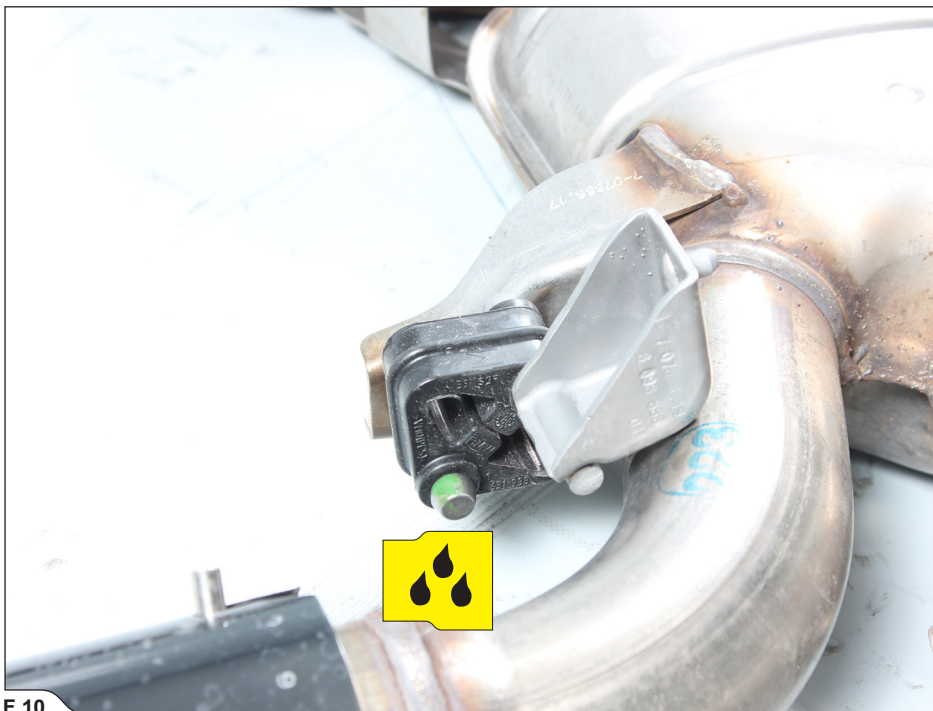
**✂** **INSTALLATION TIP: for easier dismounting, lubricate the rubber brackets (WD40®)\*.**

\*WD-40® is a trademark of the WD-40 Company.

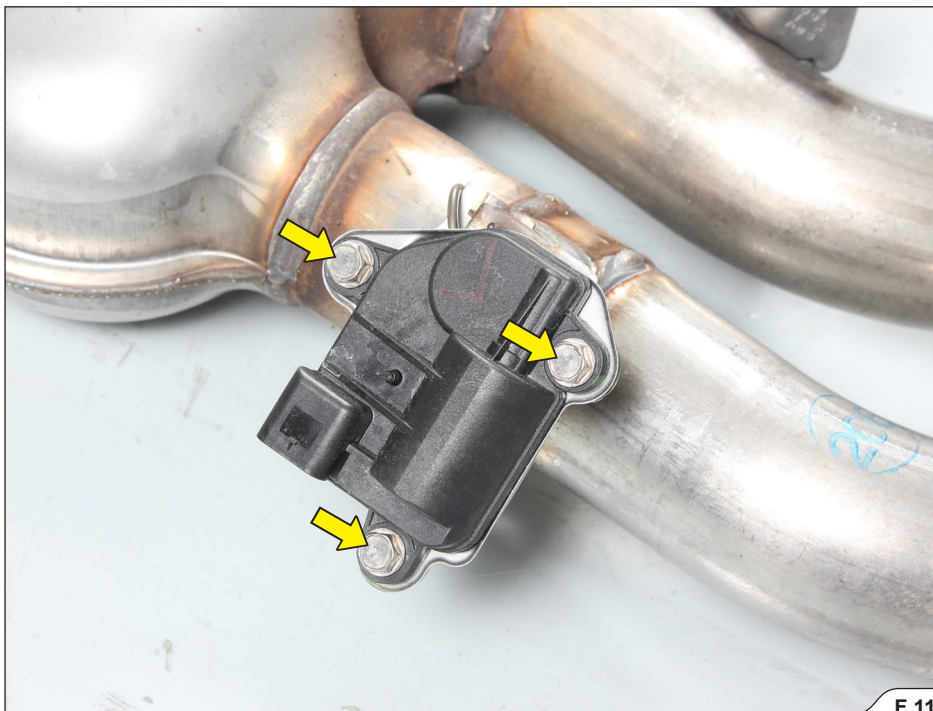


F 08



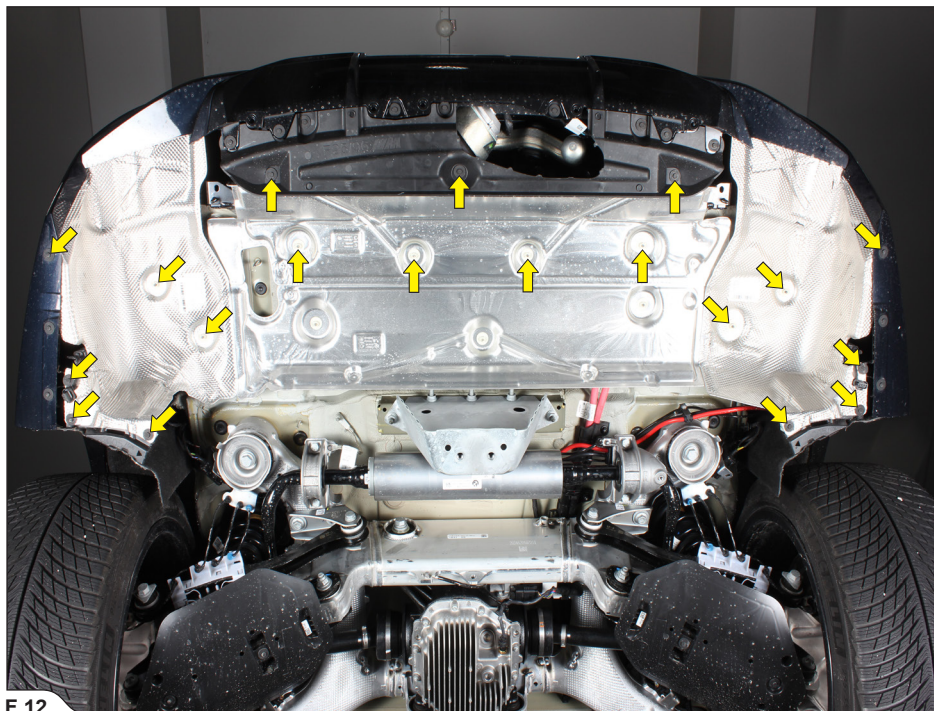


F 10



3. Unscrew the marked bolts and nuts; carefully remove the left, right and central heat shields the vehicle (F 12).

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

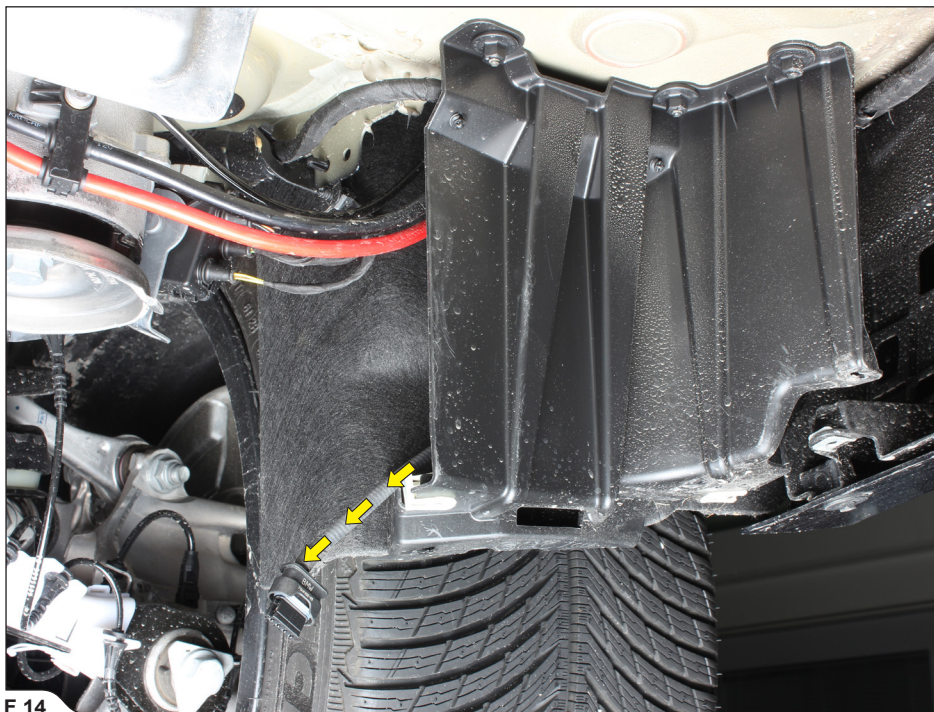


F 12

4. Undo the marked cable holders and lead the actuators' wires, as shown on both sides of the vehicle (F 13, 14).

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



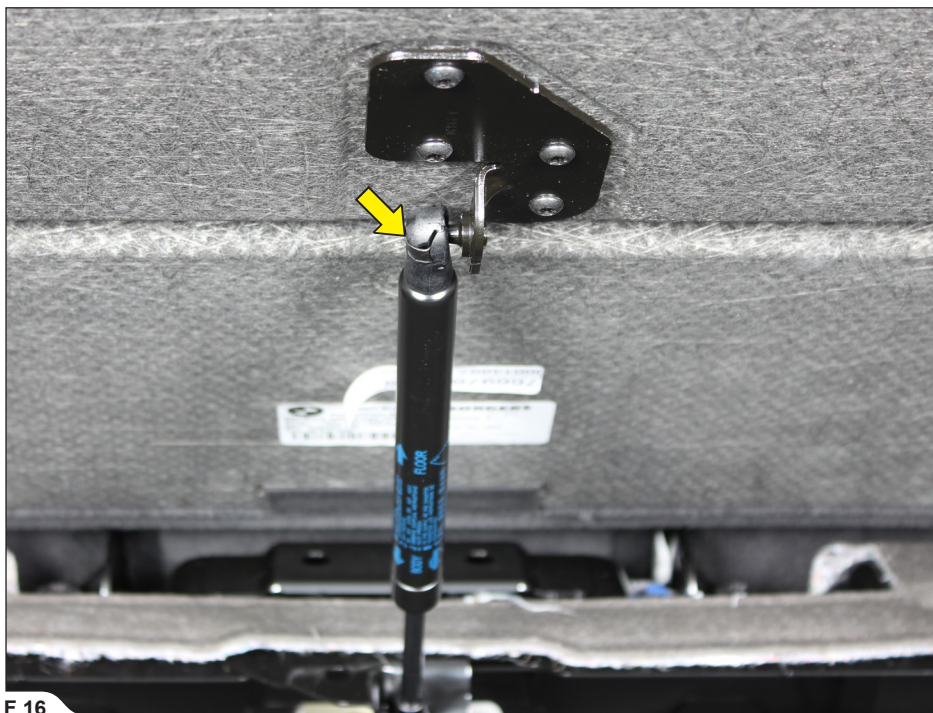


F 14

5. Open the trunk, remove the trunk panel, loading sill cover and right trunk trim panel, to get access to electrical wiring harness; check vehicle manufacturer workshop manual for details (F 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33).

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



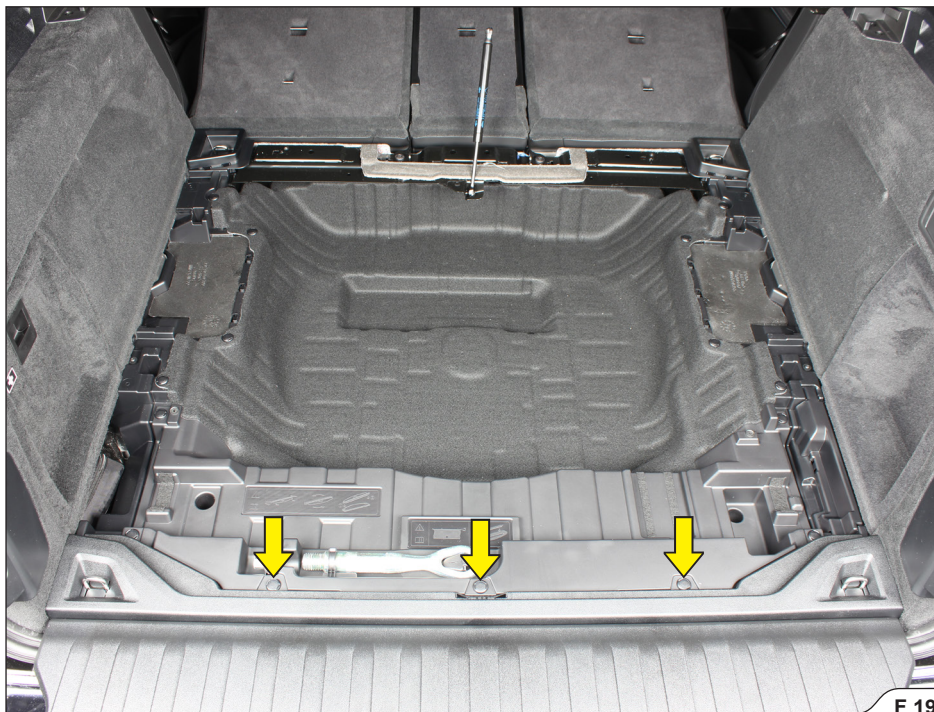


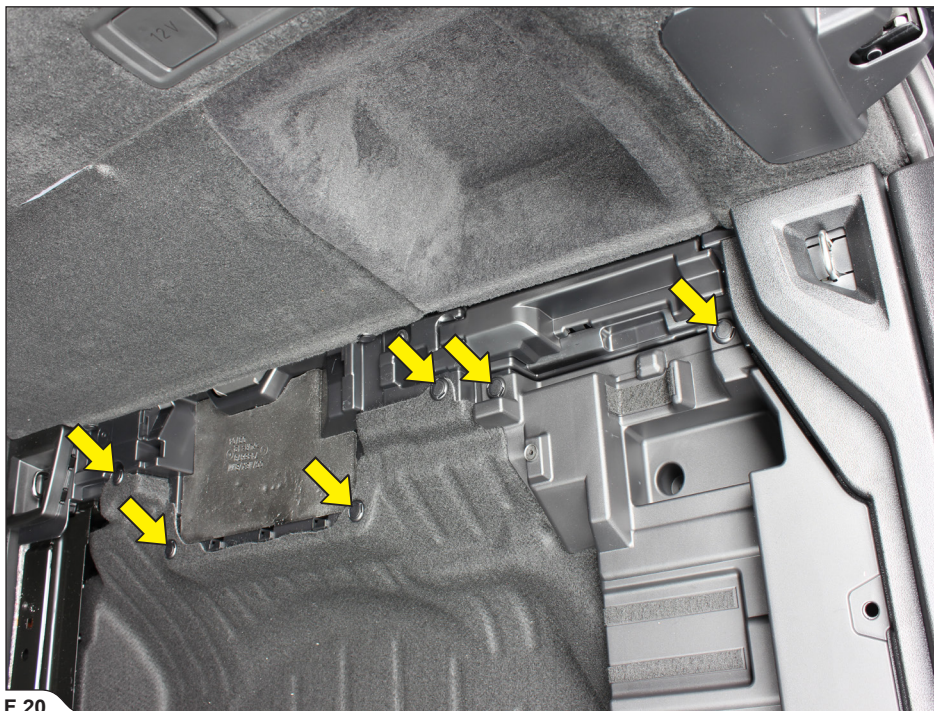
F 16



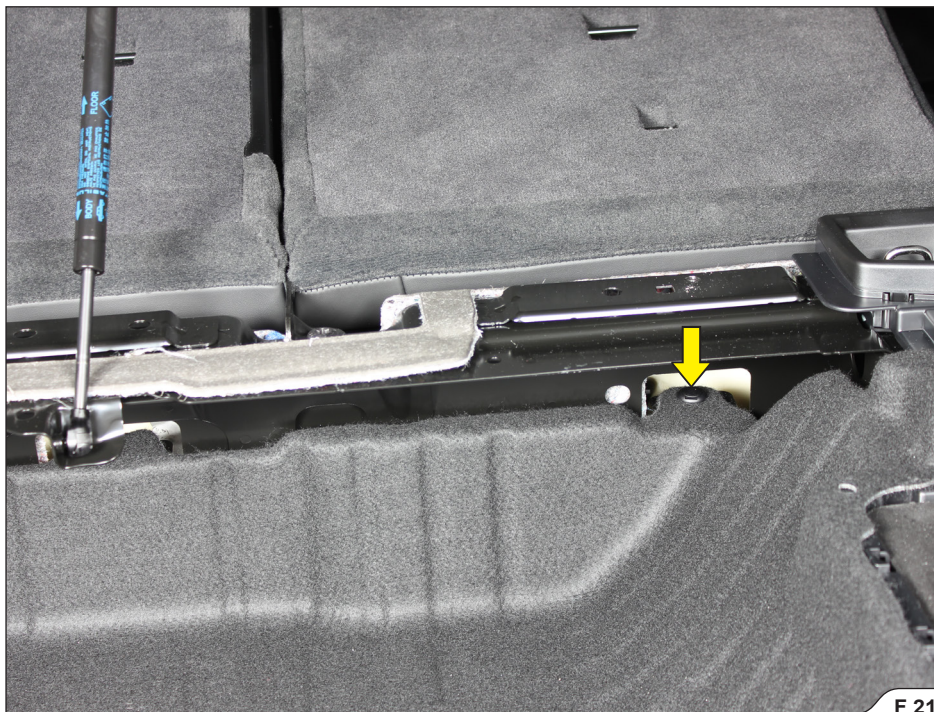


F 18



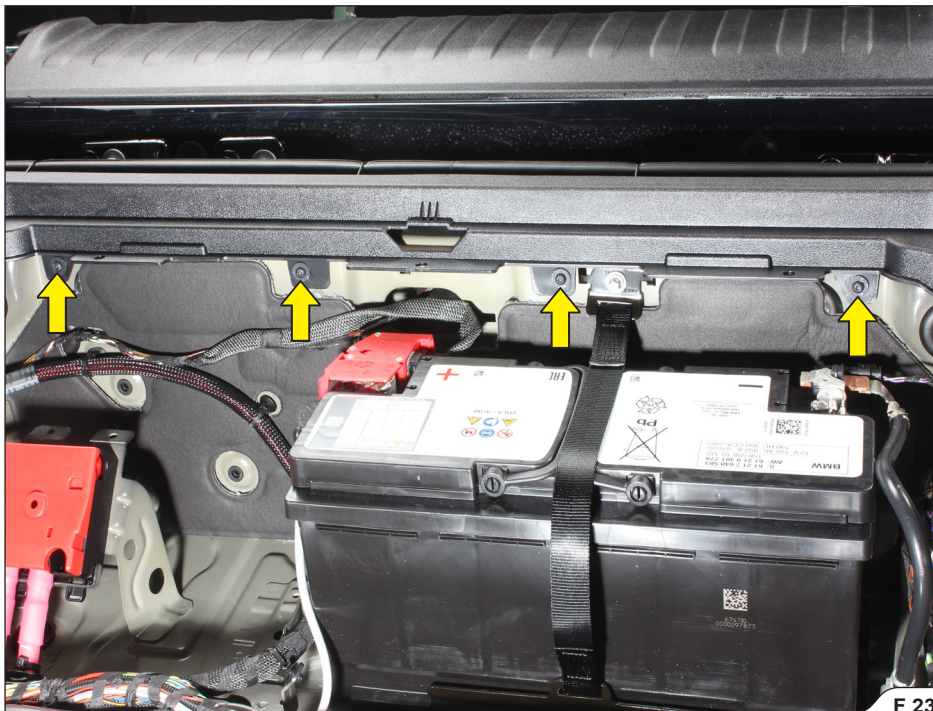


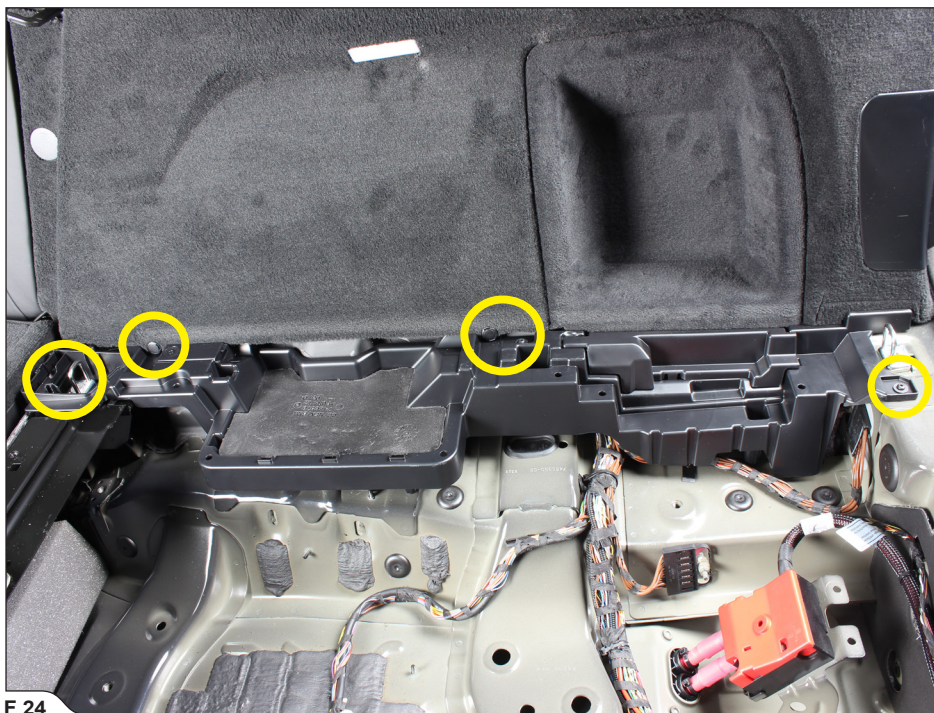
F 20





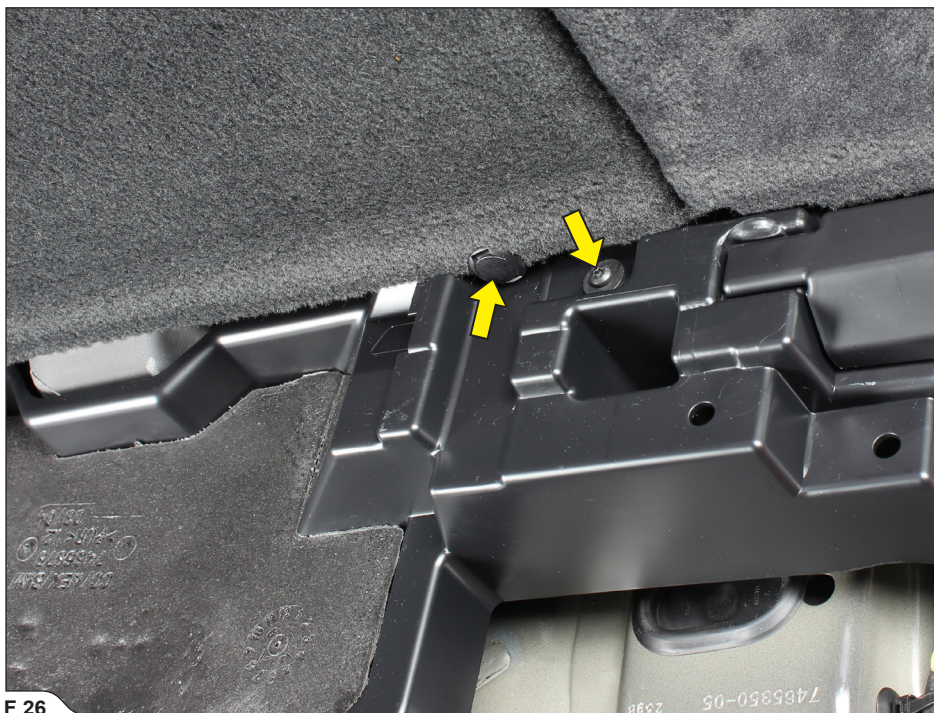
F 22



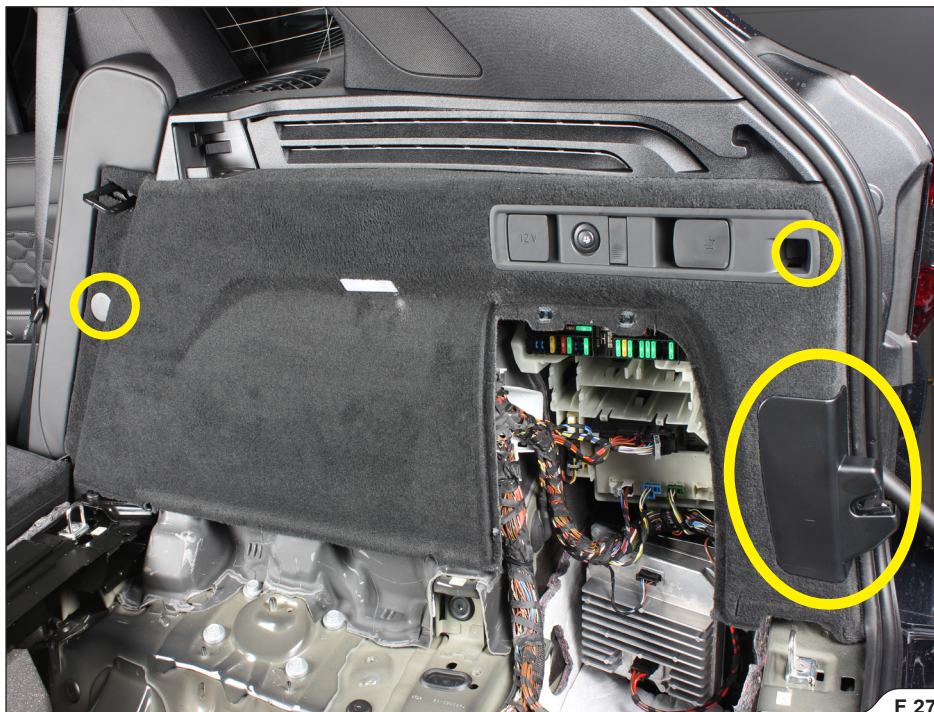


F 24





F 26



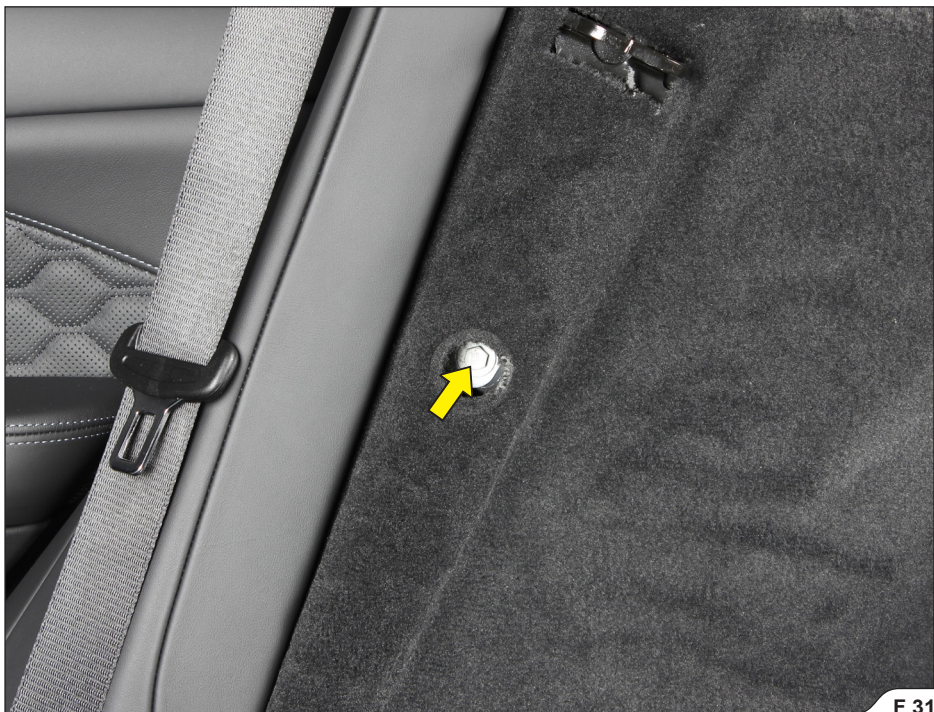


F 28



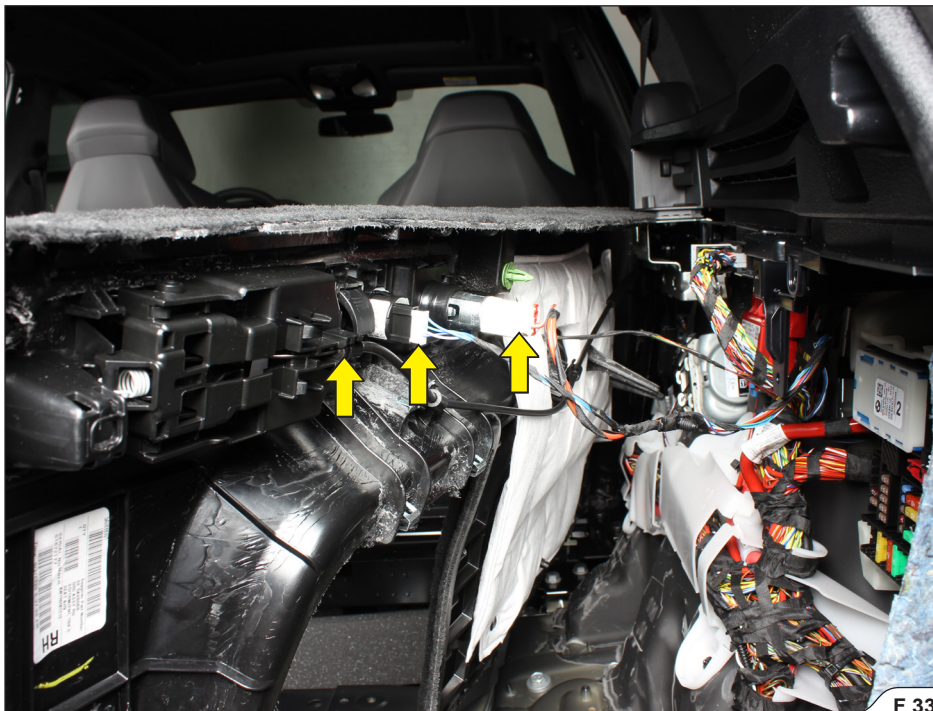


F 30



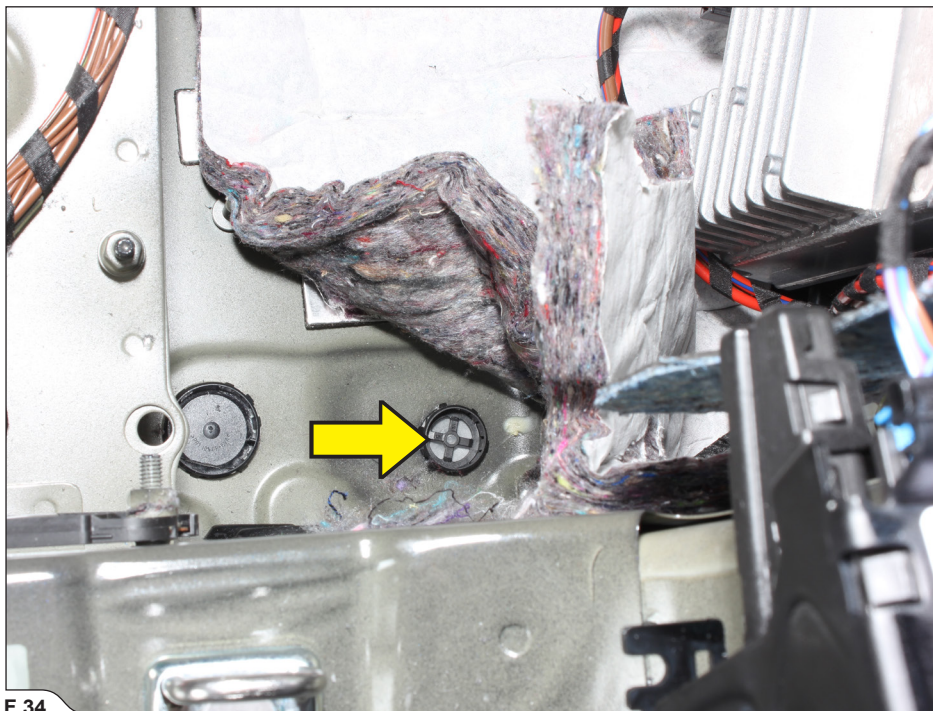


F 32



6. Remove the marked stock rubber grommet (F 34).

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



F 34

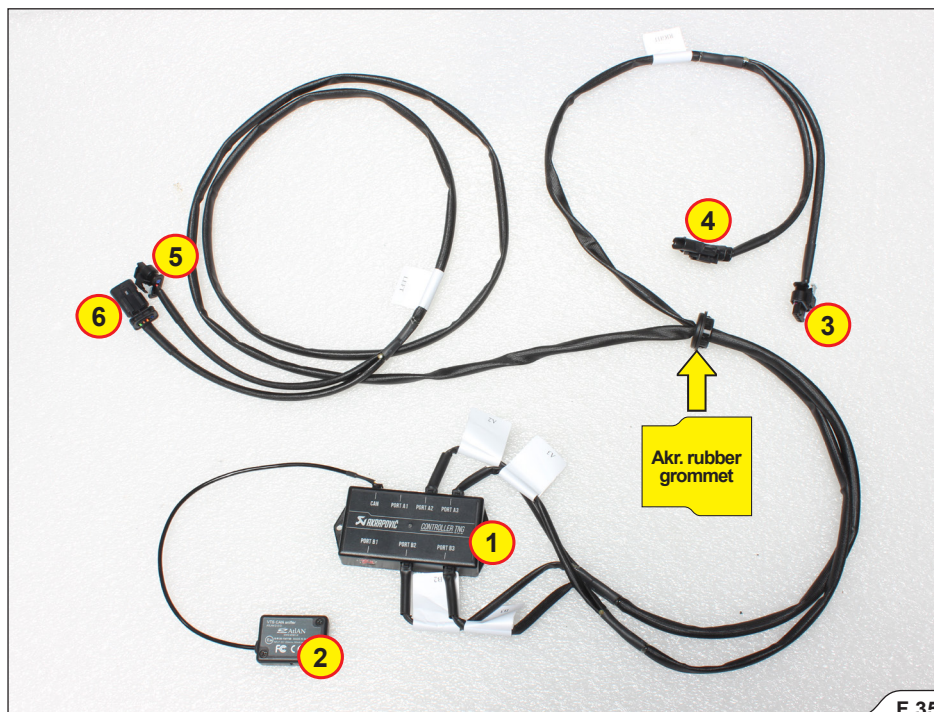
## INSTALLATION OF THE AKRAPOVIČ EXHAUST SYSTEM:

### 1. The Control Kit components (F 35):

1 - Controller TNG  
2 - CAN sni er

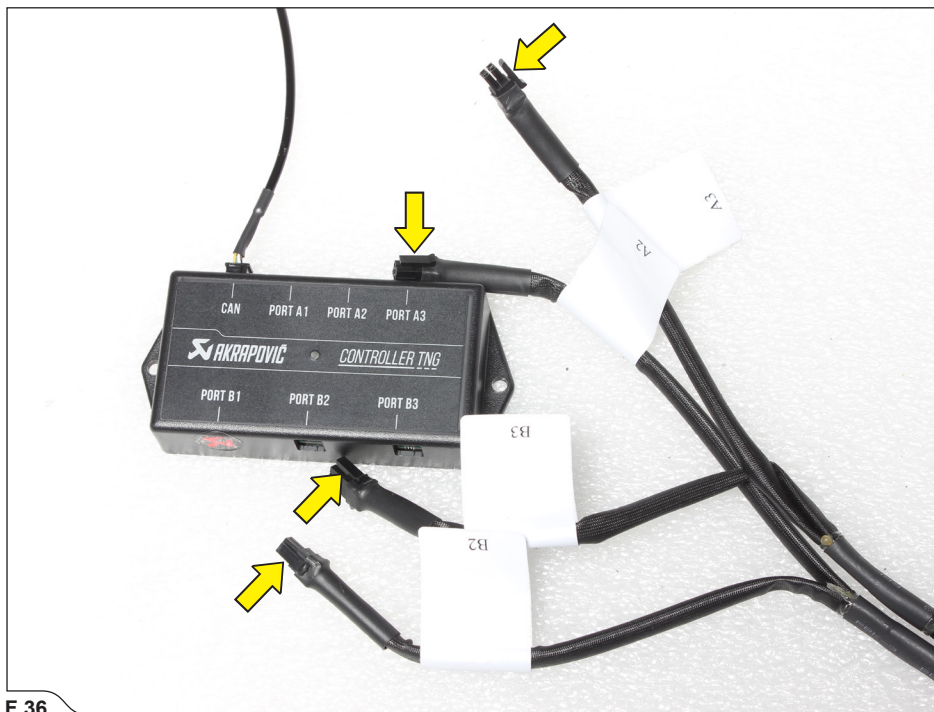
3 - To right valve actuator  
4 - To right stock valve connector

5 - To left valve actuator  
6 - To left stock valve connector



2. Disconnect the A2, A3, B2 and B3 connectors from Controller TNG unit - the actuators' wiring harnesses must be lead from the underneath the vehicle, into the trunk (F 36).

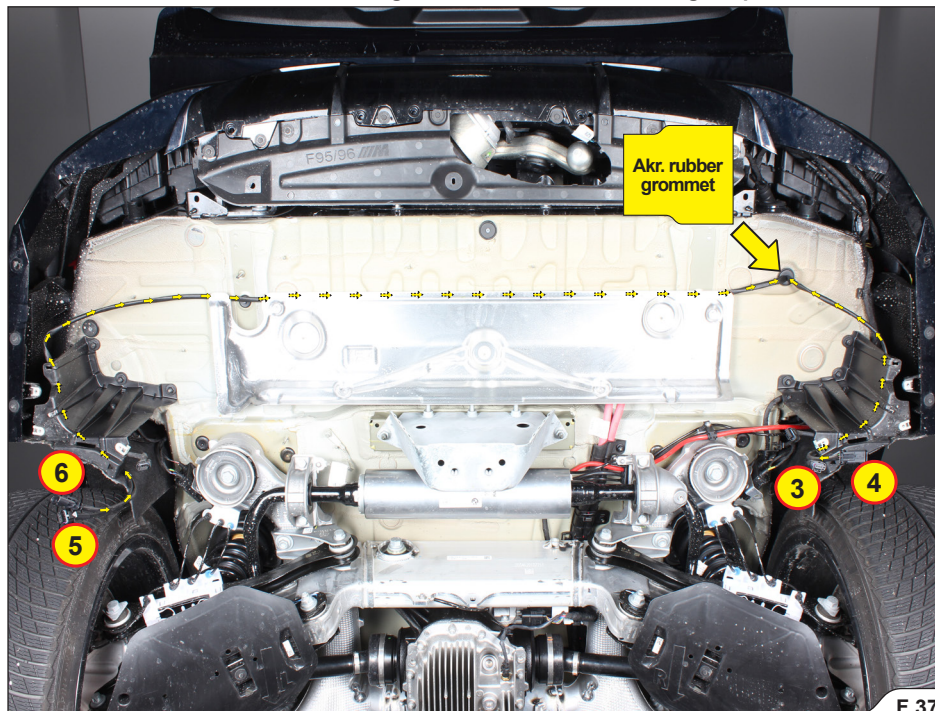
! **CAUTION:** make sure not to injure yourself or damage any part of the Control Kit!

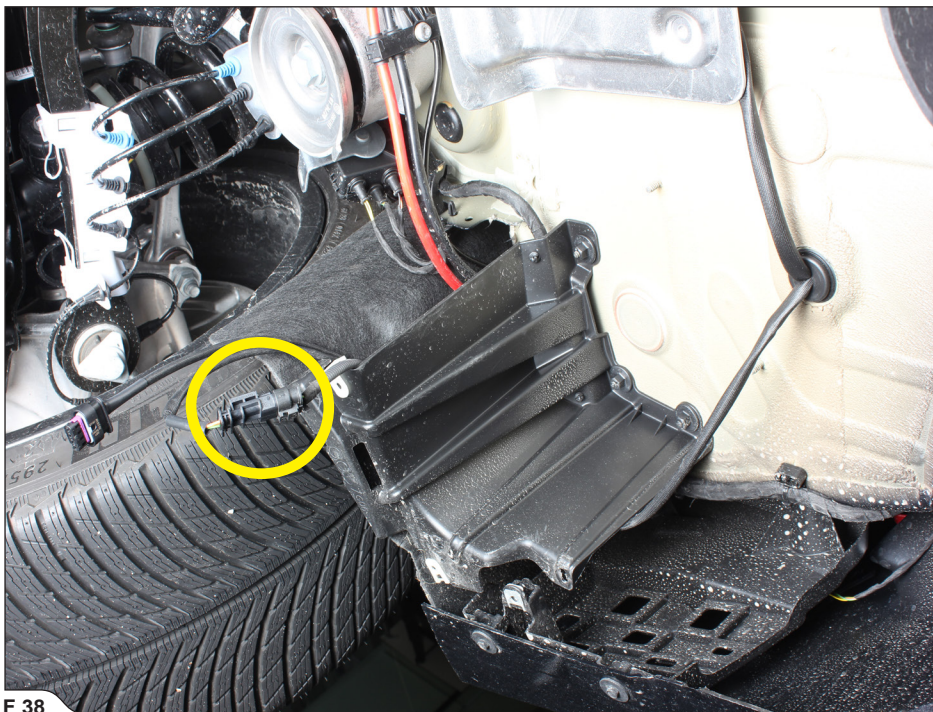


F 36

3. Lead the Akrapovič left and right valves' harnesses into the trunk (make sure, that Akrapovič grommet plugs into place correctly) and connect the Akrapovič connectors to the stock connectors' as shown, on both sides of the vehicle (F 37, 38, 39, 40, 41).

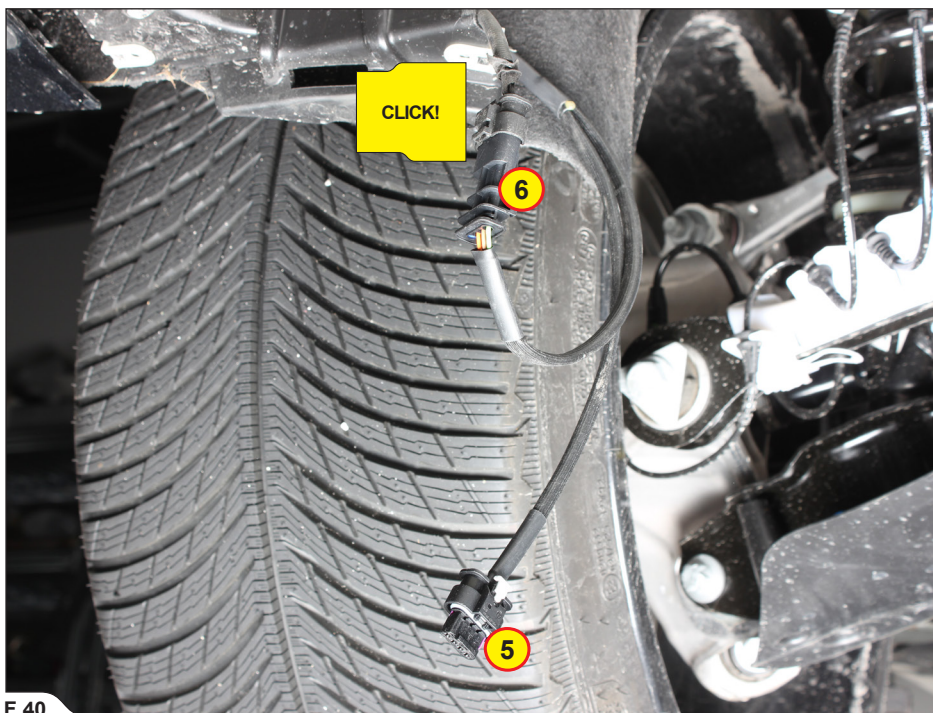
**!** **IMPORTANT:** make sure not to damage the wires or connectors during this process!



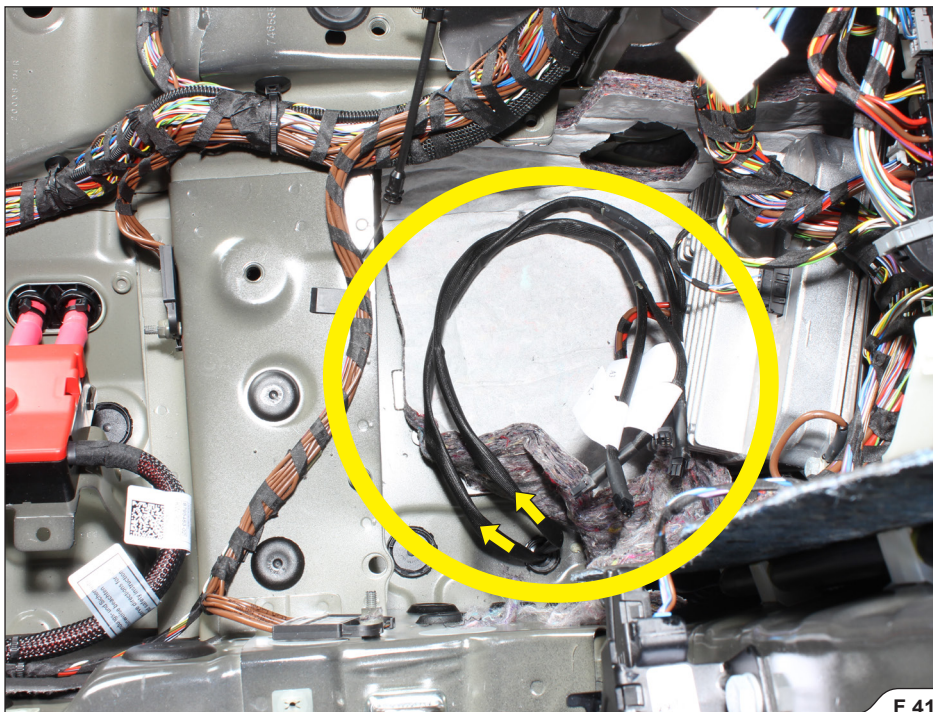


F 38



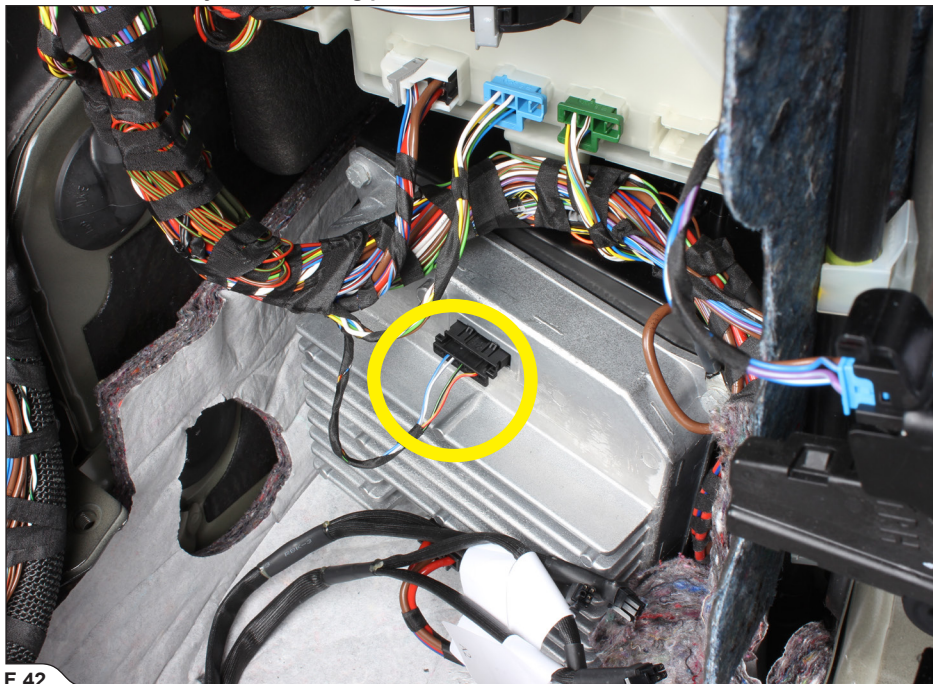


F 40



4. Install and connect the Controller TNG and CAN components in the trunk, as shown; secure all wiring and components in place using tie wraps from Akrapovič installation kit and reconnect the A2, A3, B2 and B3 connectors to the Controller TNG unit (F 42, 43, 44, 45, 46, 47).

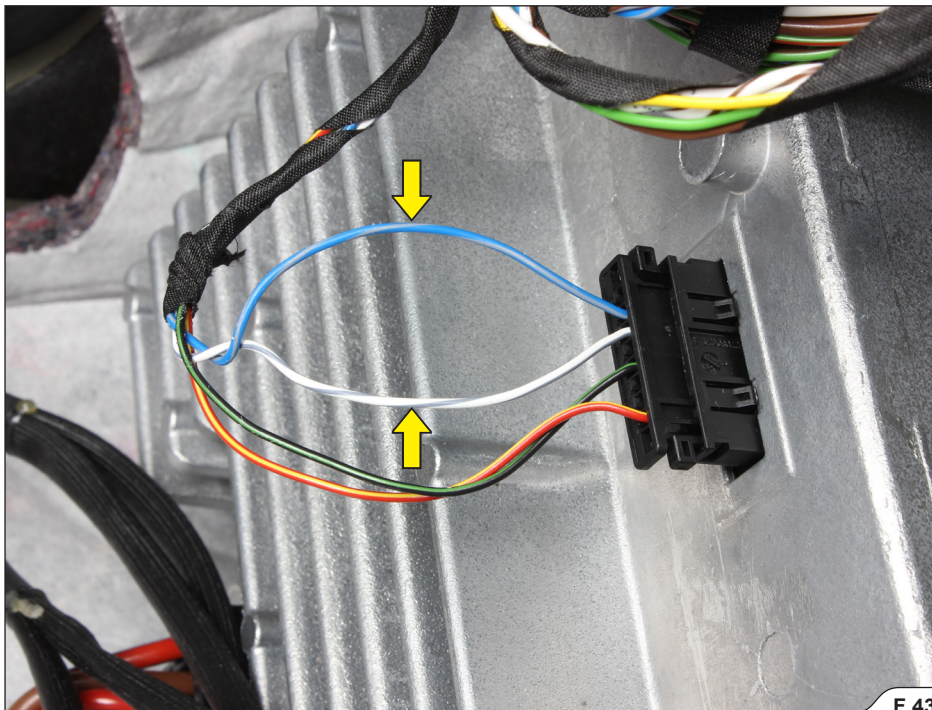
**!** **IMPORTANT:** make sure to secure all Control Kit components in such a way, that they won't touch any hot or moving parts of the vehicle!

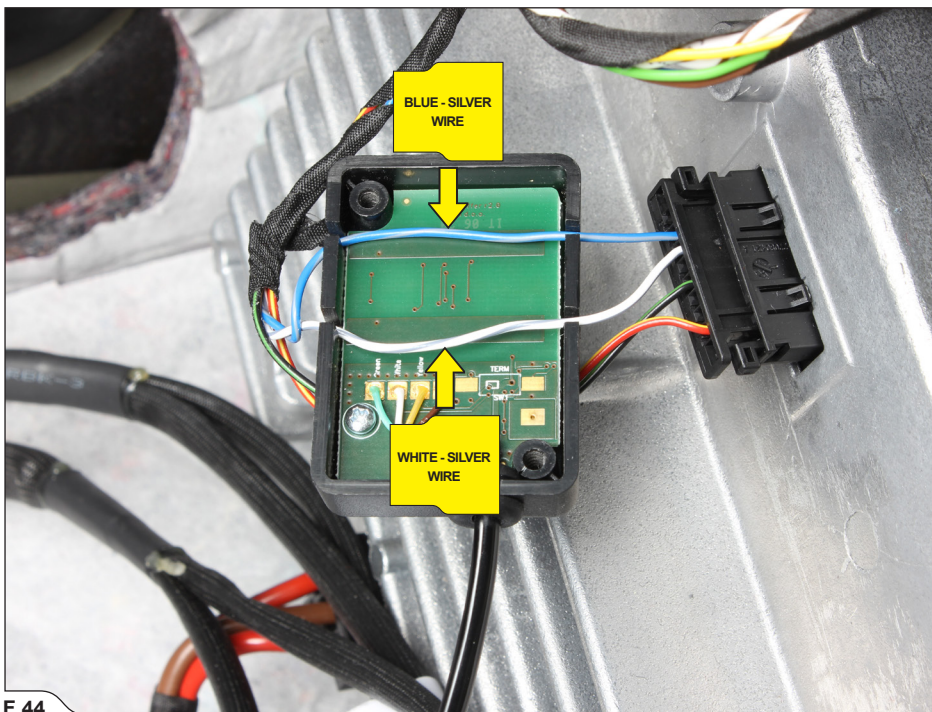


F 42

! **IMPORTANT:** carefully separate the BLUE-SILVER and WHITE-SILVER wires from the marked harness, unscrew the CAN sniffer's cover, lead the blue-silver and white-silver wires through the CAN sniffer's wire grooves as shown and reinstall the cover (F 43, 44, 45).

! **IMPORTANT:** make sure not to damage the wires during this process (F 43)!



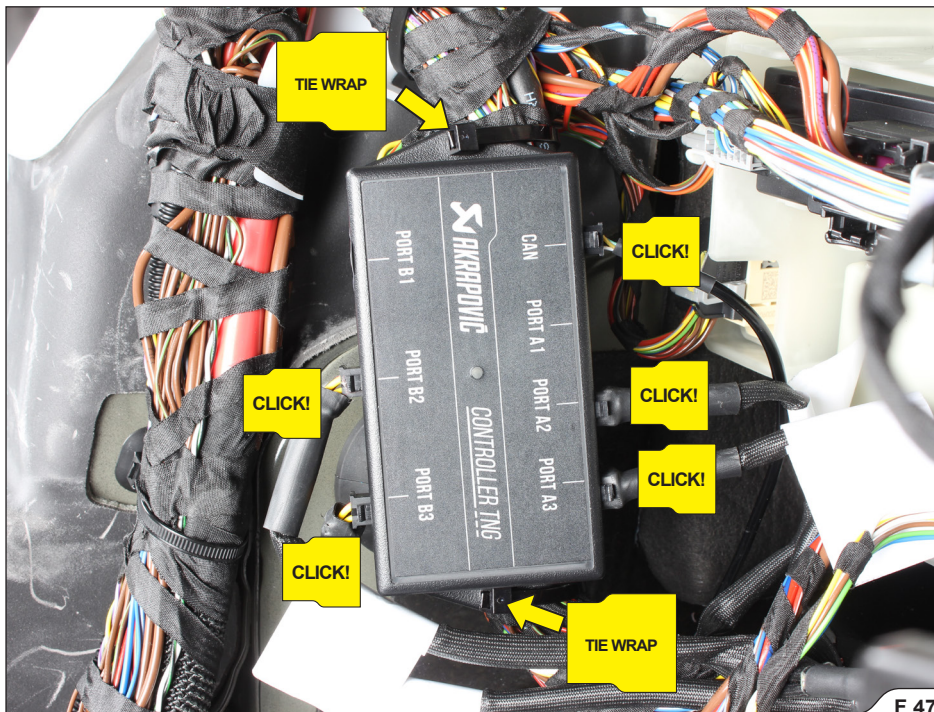


F 44



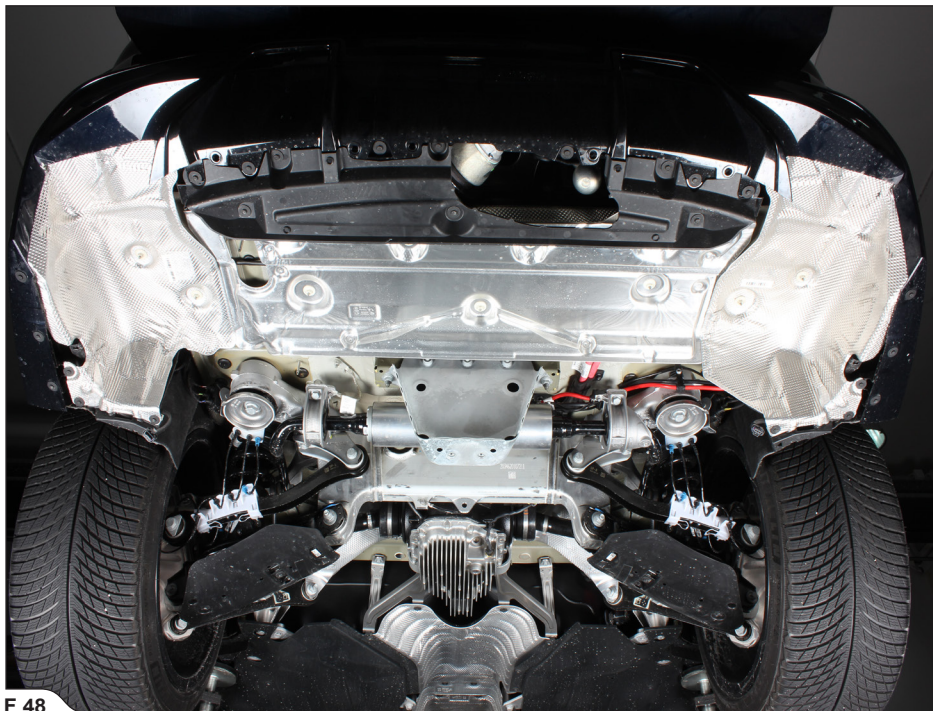


F 46



5. Reinstall the stock heat shields; check vehicle manufacturer workshop manual for details and correct tightening torques (F 48).

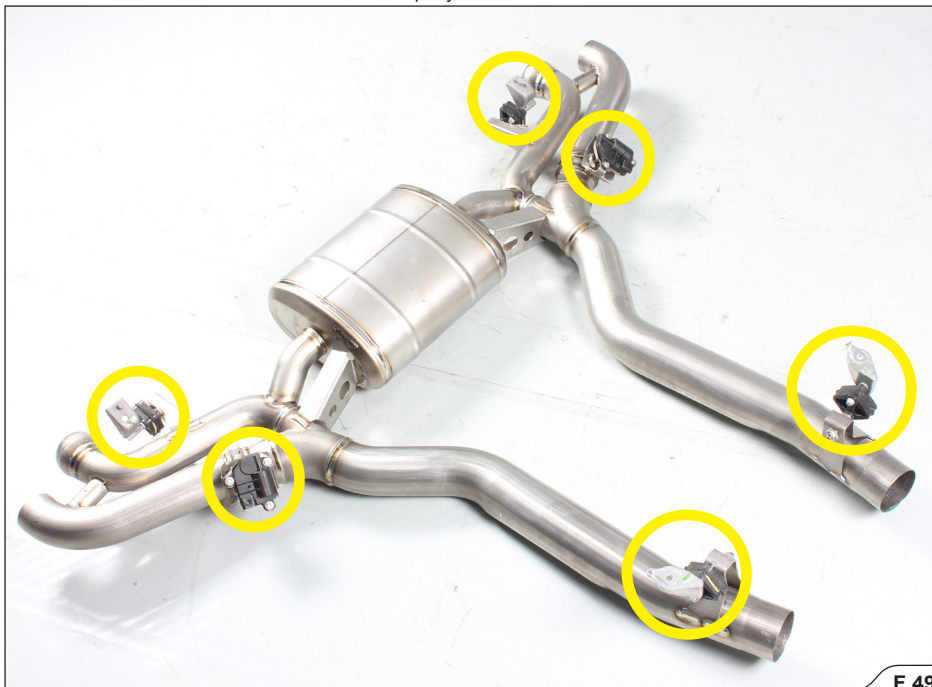
**!** CAUTION: make sure not to injure yourself or damage any part of the vehicle during this process!

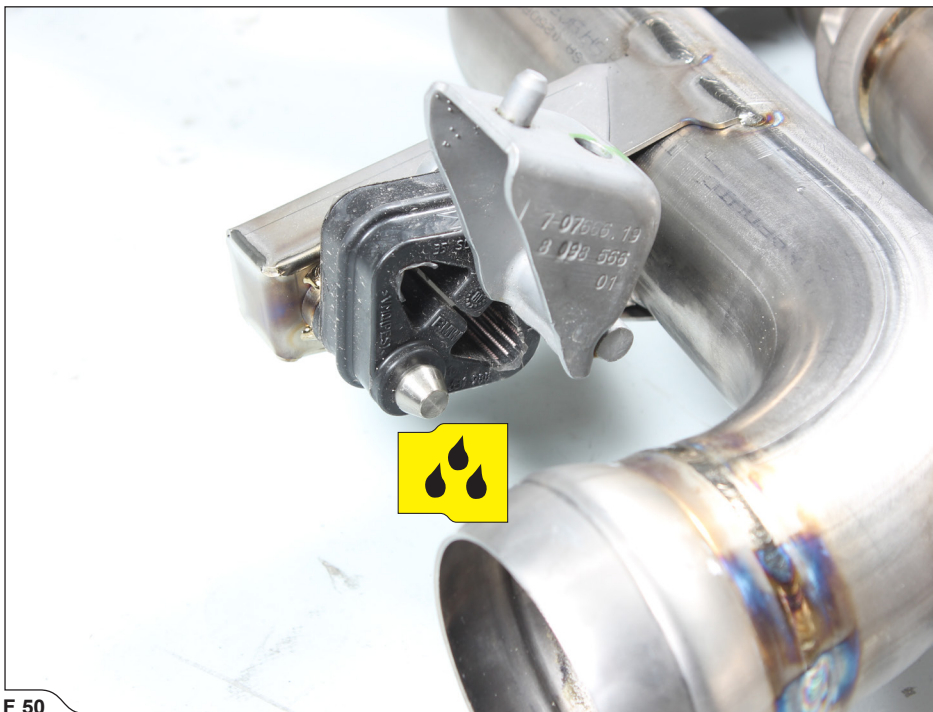


F 48

6. Assemble the stock rubber brackets and stock exhaust valve actuators onto the Akrapovič (using **spring connections** and **bolts** from Akrapovič installation kit and **stock heat shields**), as shown (F 49, 50, 51, 52, 53, 54, 55).

**✂** **INSTALLATION TIP:** for easier mounting, lubricate the rubber brackets (WD40®)\*.  
\*WD-40® is a trademark of the WD-40 Company.





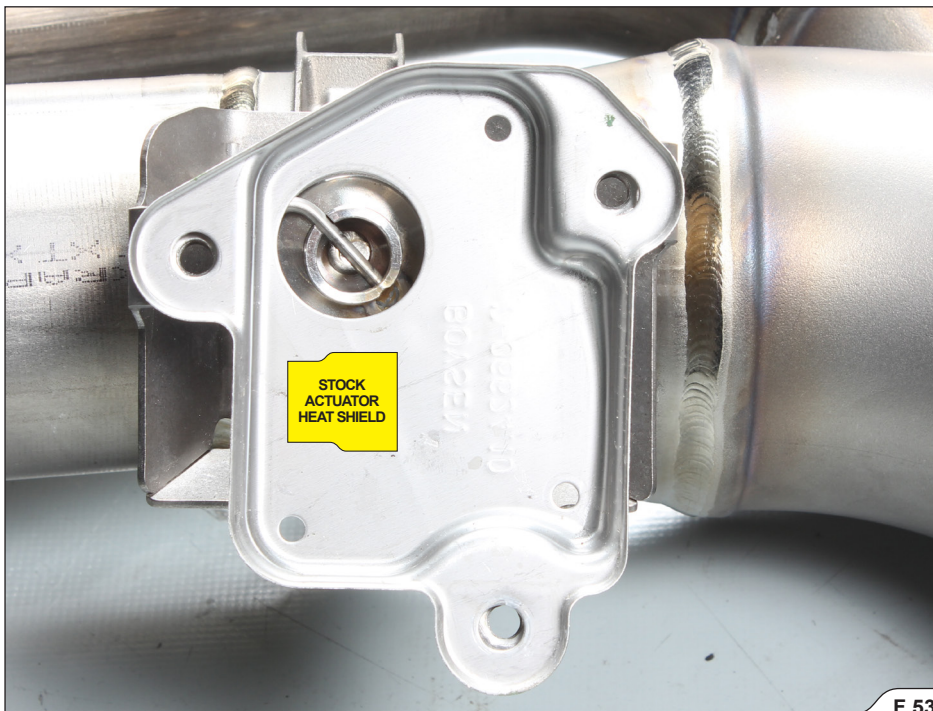
F 50



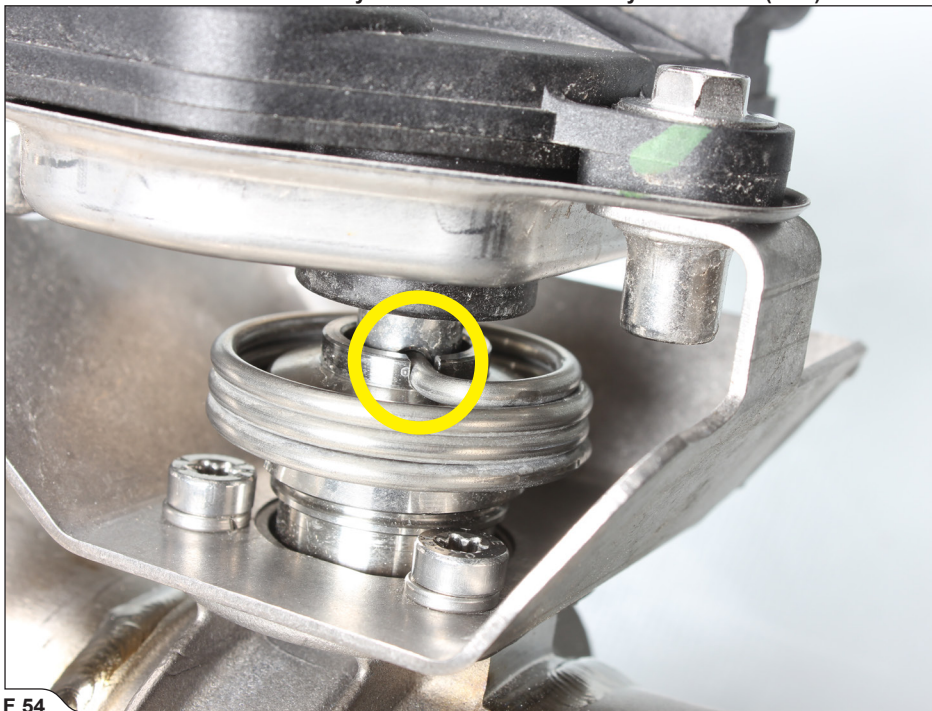
**!** **IMPORTANT:** make sure, that spring connection seats correctly into the valves' axle grooves (F 52)!



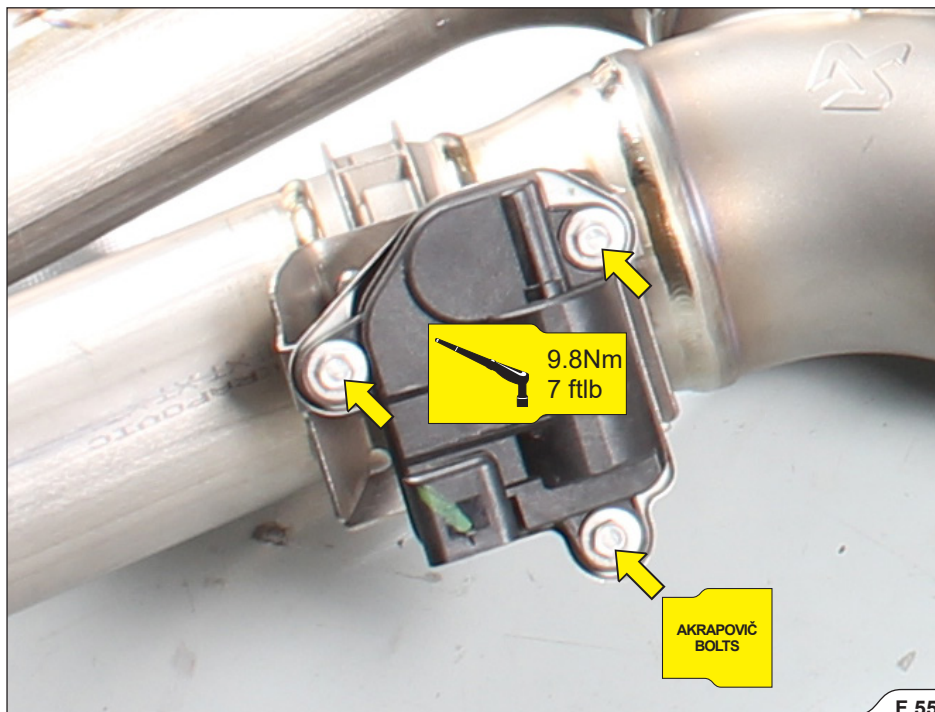
F 52



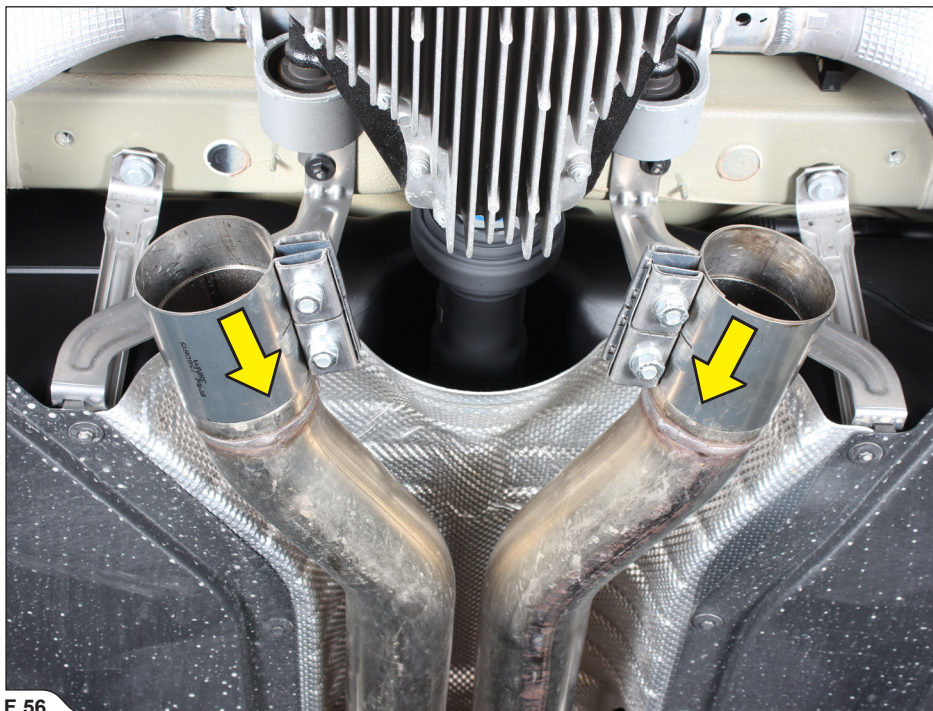
- ! **IMPORTANT:** in case the spring connection doesn't align with actuator grooves, the joint will align at the first start-up or mode change due to pre-load design. Please make sure to check the functionality of exhaust valves after system install (F 54)!



F 54



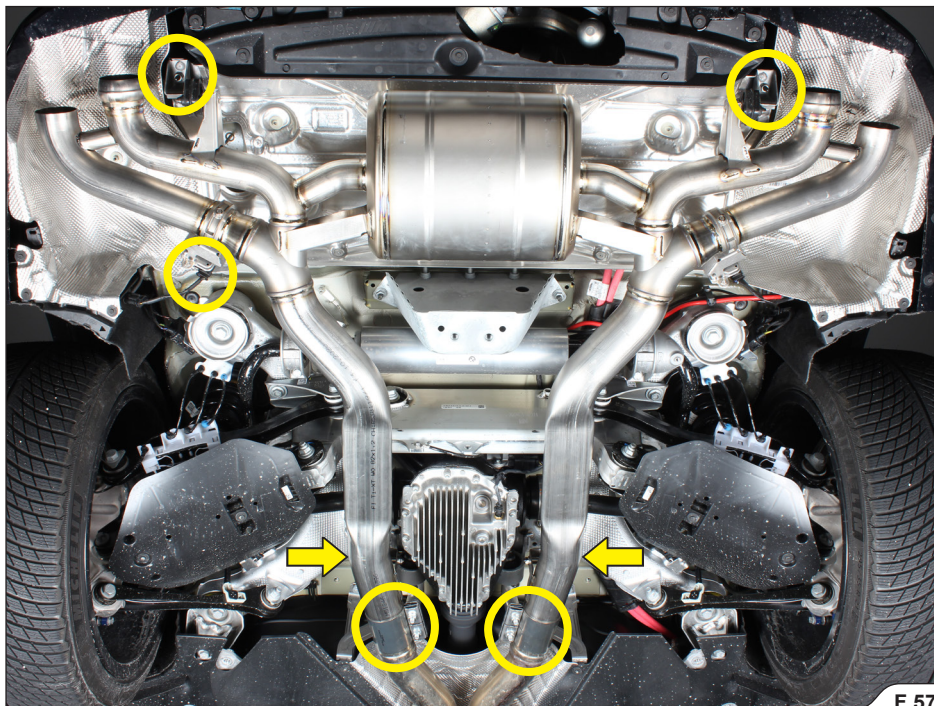
7. Slide the double clamps from Akrapovič installation kit onto the stock pipes, as shown (F 56).
- ! **CAUTION:** make sure not to injure yourself or damage any part of the vehicle during this process!

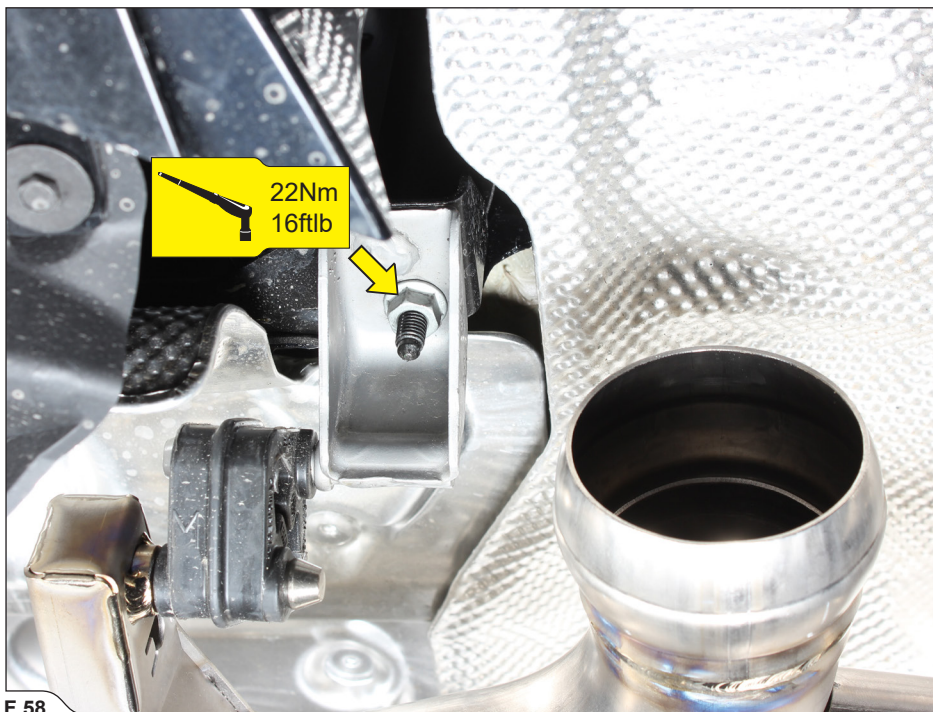


F 56

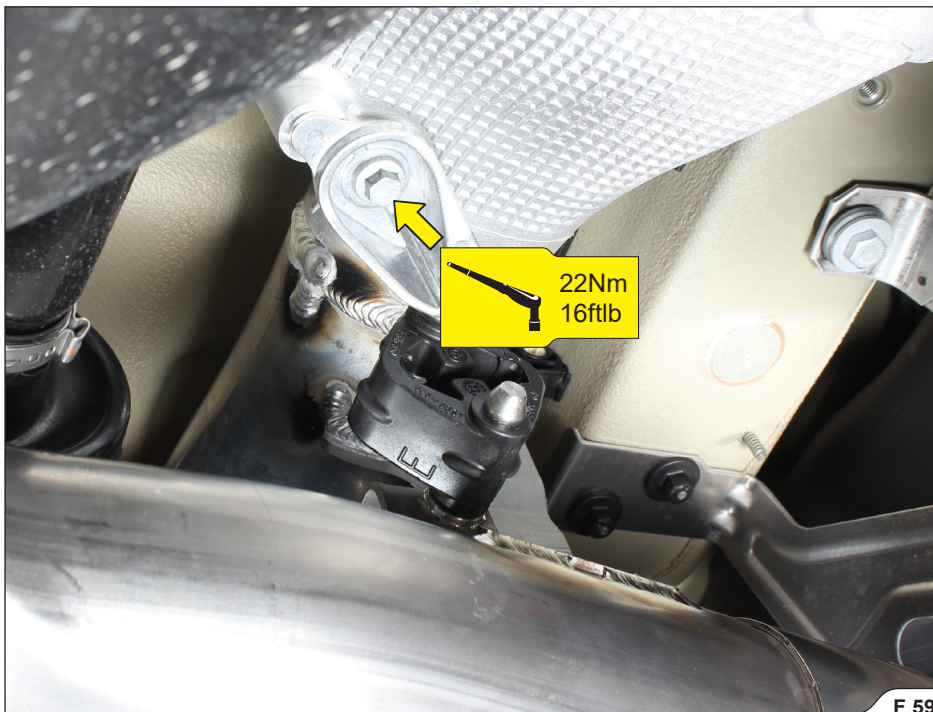
8. Carefully install the Akrapovič onto the vehicle; tighten all rubber brackets onto the chassis, align the in respect to the chassis, center the double clamps in the middle of the joints and (F 57, 58, 59, 60).

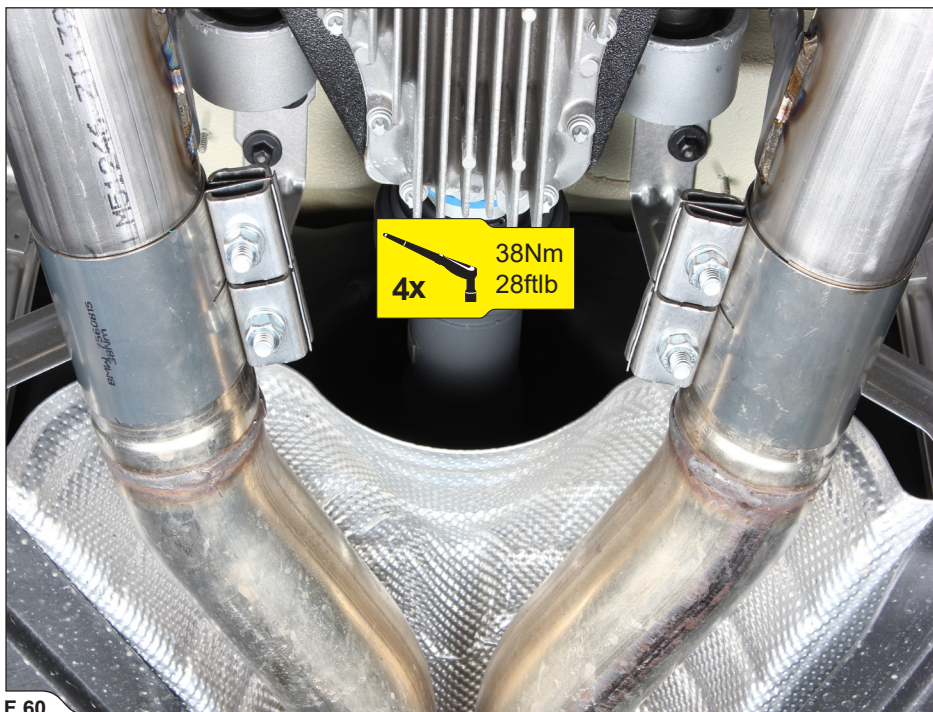
! CAUTION: make sure not to injure yourself or damage any part of the vehicle during this process!





F 58

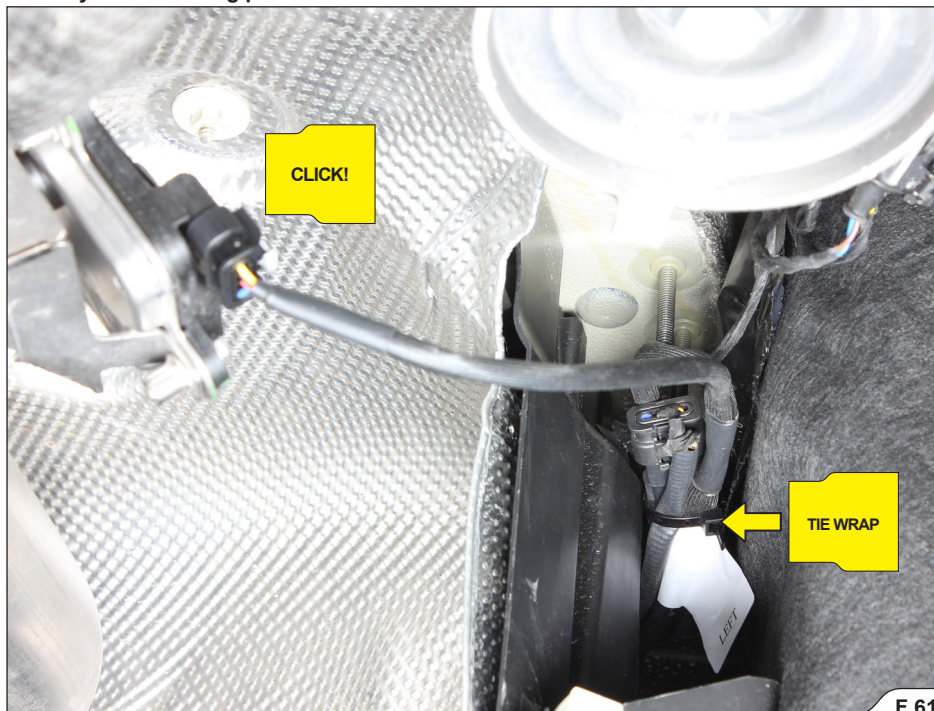


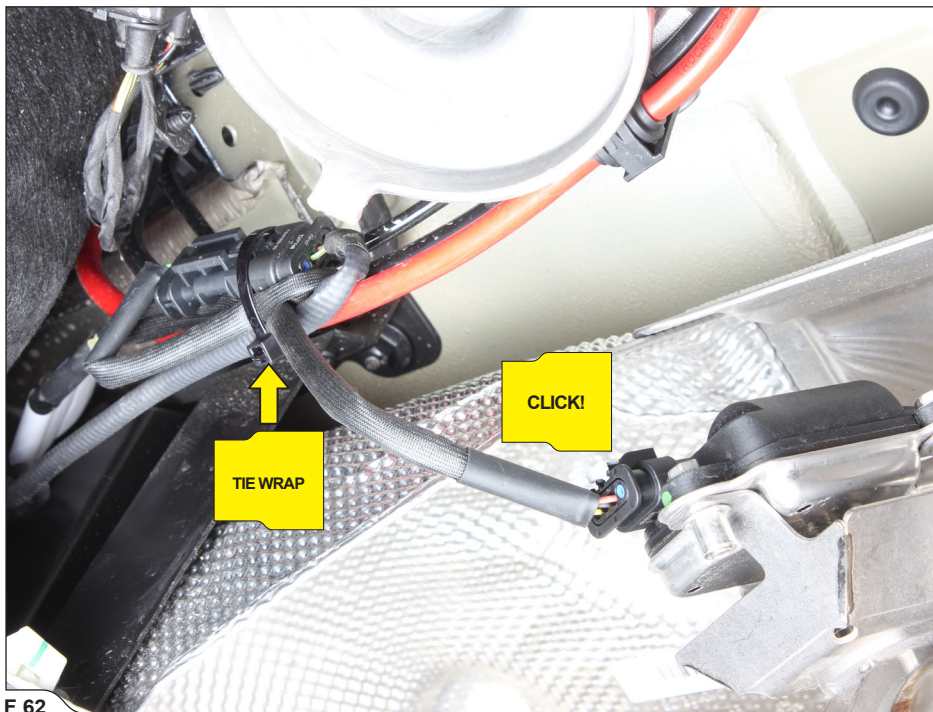


F 60

9. Connect and secure (using tie wraps from Akrapovič installation kit) the exhaust valve actuators' harnesses, as shown (F 61, 62).

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





F 62

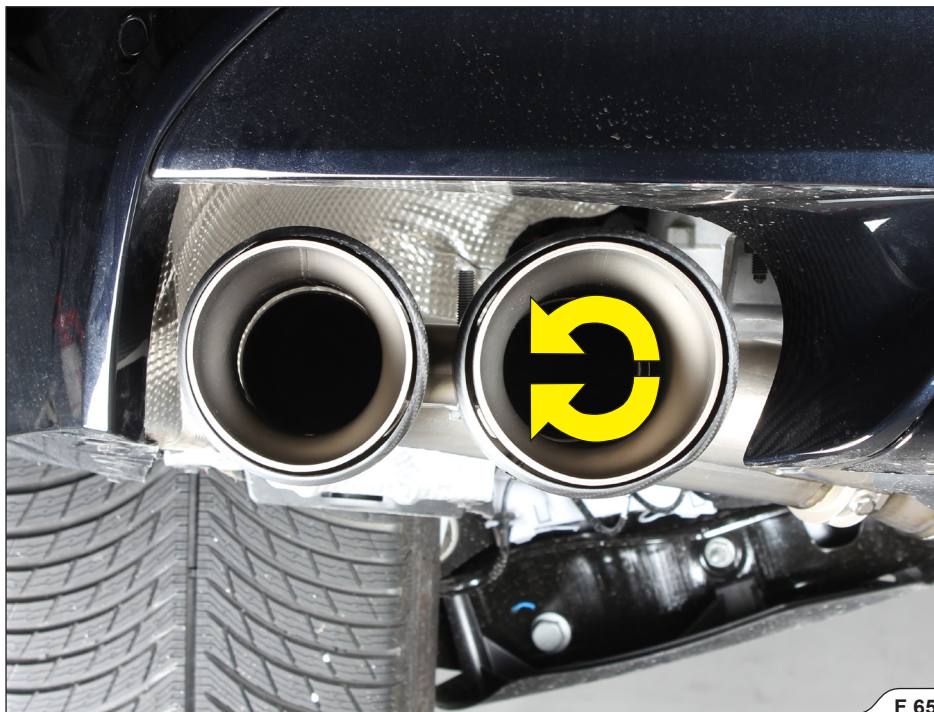
10. Assemble the tail pipes and install them onto the outlets; rotate and center them in respect to rear bumper and according to your personal preference and tighten the clamps to (F 63, 64, 65, 66).

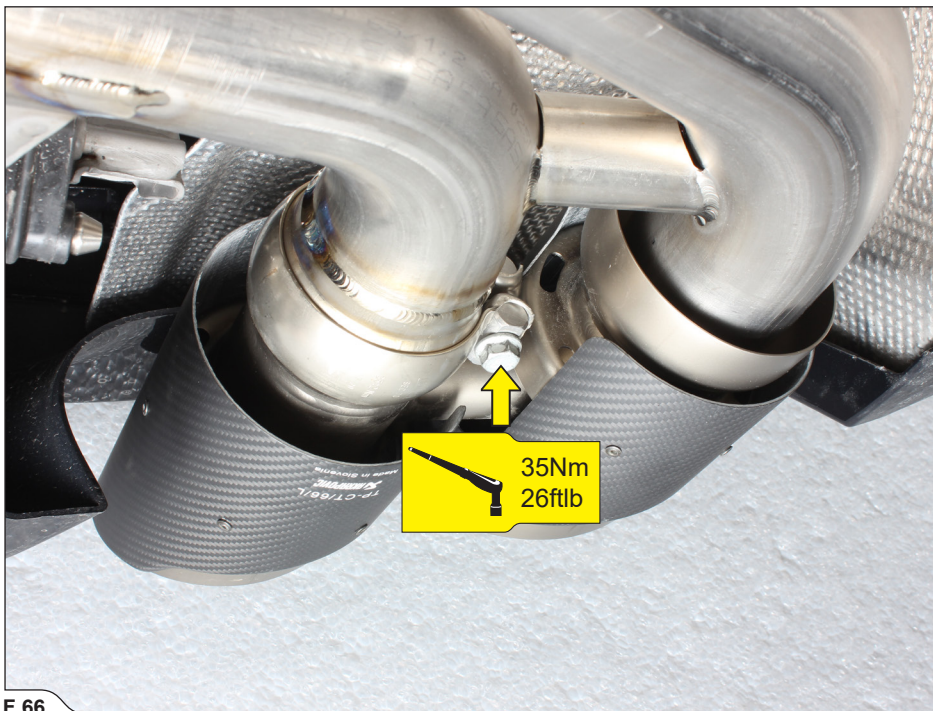
**!** **IMPORTANT:** make sure, not to damage tail pipes, bumper or any part of the vehicle during this process!





F 64





F 66

- 
11. Reinstall all dismantled stock parts in reverse order; check vehicle manufacturer manual for correct procedures and tightening torques.

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

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## **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 cowling 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 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.

\*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 BMW X5M TYPE F95. THERE MAY BE SOME DIFFERENCES IN INSTALLATION PROCEDURES FOR OTHER MODELS.**

## TROUBLESHOOTING:

Problem	Possible cause	Solution
Exhaust gas leaks out of the	loosened clamp	
	connection is not completely joined	tap the connection into place and
Valves are not moving	No supply	Check green LED on the Controller TNG. <b>If the LED is off:</b> <ul style="list-style-type: none"><li>• Check electrical connection and connectors</li><li>• Check fuse for exhaust valves</li></ul>
	Error detected	Check green LED on the Controller TNG. <b>If the LED is continuously ON:</b> <ul style="list-style-type: none"><li>• There are no errors detected.</li><li>• There is an error detected.</li></ul> <b>If the LED is continuously blinking:</b> Connect the Controller TNG to PC via micro USB cable and use AkraTools diagnostic utility