

# Installation instructions

Akrapovič Exhaust System:

**Evolution** 

for the

Audi S6 (type C7)

Audi S7 (type C7)

ENGLISH Version 1.0

05/2016





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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.

Any reproduction, technical or other manipulation, translation, or other use of the copyright and/or trademark rights contained herein is prohibited without the explicit prior written consent of Akrapovič. The same especially applies to the entire contents of this manual and/or any of its parts, including but not limited to technical specifications, instructions, graphs, photographs, and so on included in this manual.

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.



# SAFETY AND COMPLIANCE WARNING, PLEASE READ CAREFULLY

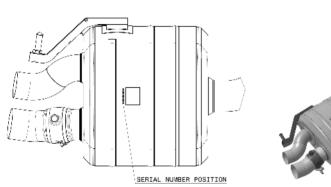
BEFORE REMOVING THE STOCK EXHAUST SYSTEM AND BEGINNING THE INSTALLATION OF YOUR NEW AKRAPOVIČ EXHAUST, PLEASE MAKE SURE THAT ALL ITEMS LISTED BELOW ARE VERIFIED:

- 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 ond other, or the car.
- Please check the parts you recieved 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). 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). 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)**

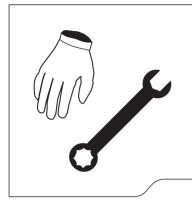
Provides trouble-free and long-lasting protection against seizing, corrosion and rusting of bolts, threaded ends, nuts, joints, etc. Also protects against vibration, wear and impact. **WARNING!** Avoid eye contact. Keep out of reach of children.



#### **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**

- · T-handle swivelling 12 mm wrench
- T-handle swivelling Torx 25
- T-handle 8 mm wrench
- T-handle 10 mm wrench
- T-handle Torx 25
- T-handle Torx 27
- T-handle 13 mm wrench
- XZN Torx 10 wrench
- Socket 15 mm
- Long socket 10 mm
- Combination 8 mm wrench
- Prv bar
- Tweezers
- Small flat screwdriver

## **PARTS LIST**

The following parts should be found in the box:

- Installation Manual
- Homologation certificate/ compliance documents if applicable
- Warrantv
- 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).

IMPORTANT: The car should be in the off position throughout the dismounting 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.

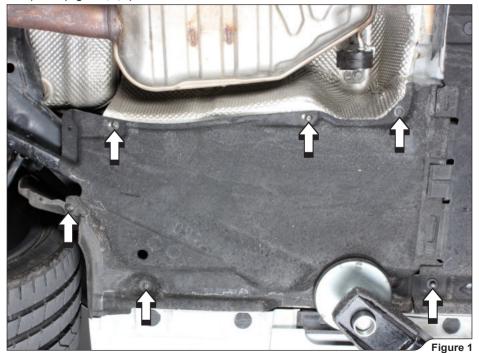
In case your Akrapovič exhaust system may not be used on certain roads or under certain conditions, please keep the stock or other exhaust system that you can use in such circumstances legally.



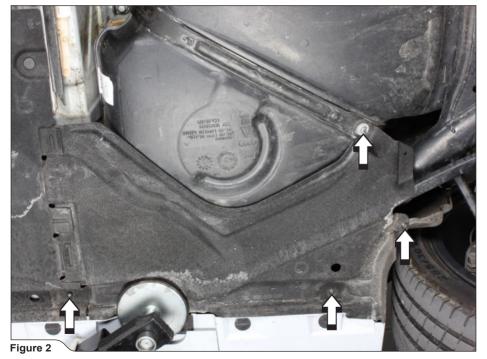
#### REMOVAL OF STOCK EXHAUST SYSTEM:

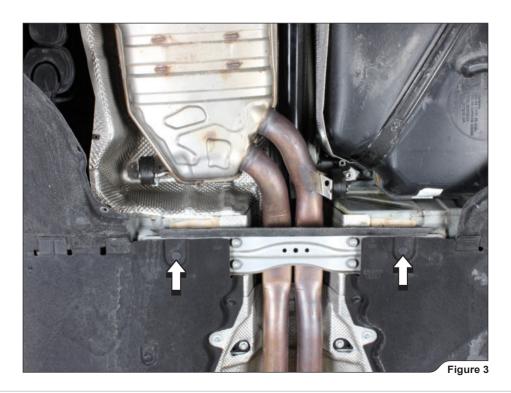
Put the vehicle onto a car lift

- ! CAUTION: ensure that the car is lifted safely and properly in order to avoid the risk of vehicle damage, injury, or even death!
- 1. Unscrew the marked bolts and nuts, undo the plastic fasteners and partially remove the underfloor panels (Figure 1, 2, 3).



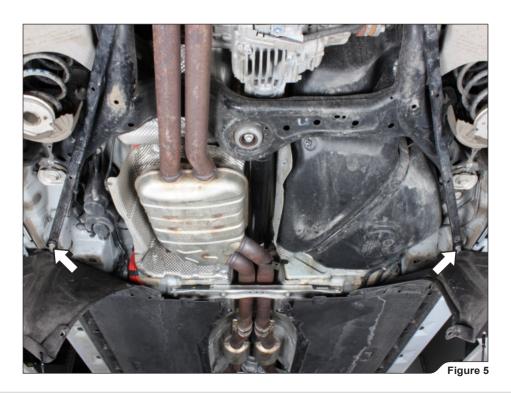
CAUTION: make sure not to injure yourself or damage any part of the vehicle during this process!



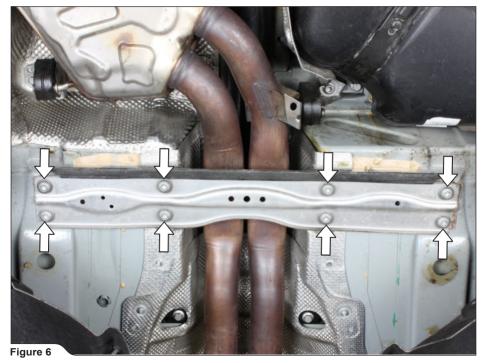


- 2. Unscrew the rear chassis reinforcements (Figure 4, 5).
- ! CAUTION: make sure not to injure yourself or damage any part of the vehicle during this process!





- 3. Unscrew the front chassis reinforcement (Figure 6).
- ! CAUTION: make sure not to injure yourself or damage any part of the vehicle during this process!



- 4. Disconnect the exhaust valve servo's connectors on both sides of the vehicle (Figure 7).
  - ! IMPORTANT: make sure, that car key is in OFF position, before you unplug the connectors! Wait for complete extinction of the car before disconnecting the actuators (2 min after key OFF)!
  - IMPORTANT: do not put the car key in ON position or start the car, before all connectors are plugged again. Risk of check light on the dashboard!



- 5. Loosen the marked double clamp (Figure 8).
  - ! CAUTION: make sure not to injure yourself or damage any part of the vehicle during this process!



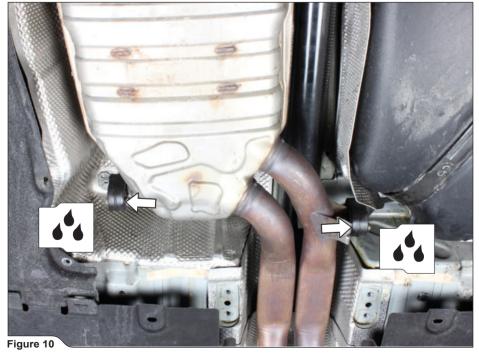
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- Support the mufflers, unscrew the marked bracket nuts, pull the pre-muffler's rubber brackets off the pins and carefully remove the mufflers off the vehicle (Figure 9, 10).
  - CAUTION: make sure not to injure yourself or damage any part of the vehicle during this process!
  - ! CAUTION: support the mufflers during this process or you could injure yourself or damage the vehicle!

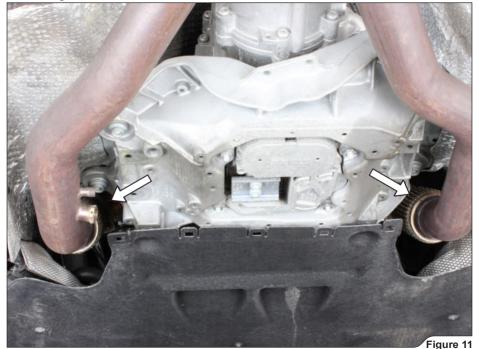


# INSTALLATION TIP: for easier dismounting, lubricate the rubber brackets (WD40<sup>®</sup>)\*.

\*WD- $40^{\scriptsize{(\!\![}\!\!]}$  is a trademark of the WD-40 Company.



- 7. Support the link pipes, unscrew the marked flanges' nuts and carefully remove the link pipes off the vehicle (Figure 11, 12).
  - CAUTION: make sure not to injure yourself or damage any part of the vehicle during this process!
- ! CAUTION: support the front pipes during this process or you could injure yourself or damage the vehicle!





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- 8. Carefully remove the rubber brackets and exhaust valves servos off the mufflers (Figure 13, 14).
- NSTALLATION TIP: for easier dismounting, lubricate the original rubber brackets (WD40<sup>®</sup>)\*.





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- For Installation of Akrapovič Control Kit components only: remove the rear bumper off the vehicle and disassemble the trunk floor and side trim panels, to get access to vehicle's electrical system (Figure 15, 16, 17, 18, 19, 20, 21, 22).
  - CAUTION: make sure not to injure yourself or damage any part of the vehicle during this process!
  - ! IMPORTANT: EC TYPE APPROVAL IS VALID ONLY IF EXHAUST VALVE DRIVER-R IS INSTALLED!



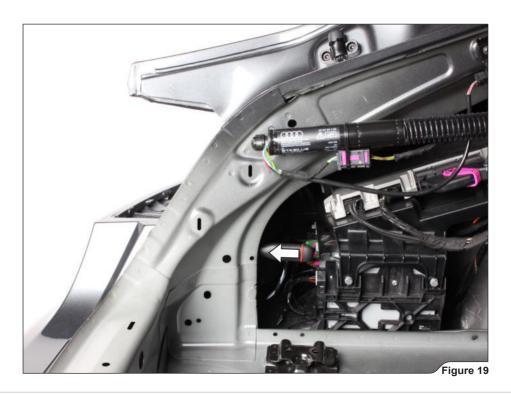


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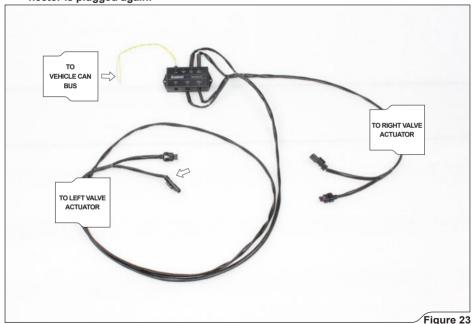




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## INSTALLATION OF THE AKRAPOVIČ EXHAUST SYSTEM:

- For Installation of Akrapovič Control Kit components only: disassemble the vehicle's Can Bus connector and insert the Control Kit unit's wires exactly as shown (Figure 23, 24, 25, 26, 27, 29).
- ! IMPORTANT: make sure, that car key is in OFF position for two minutes, before you unplug the Can Bus connector!
- ! IMPORTANT: do not put the car key in ON position or start the car, before Can Bus connector is plugged again!





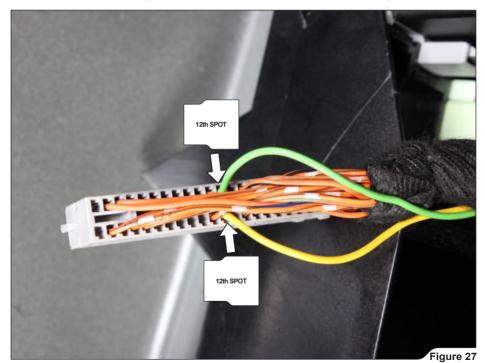
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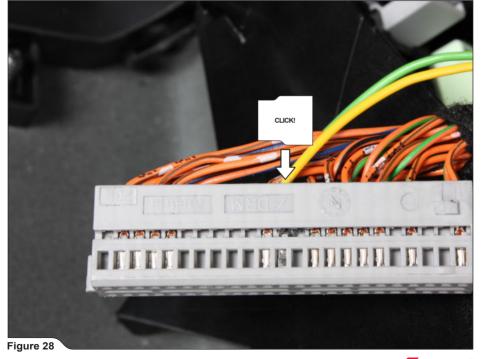




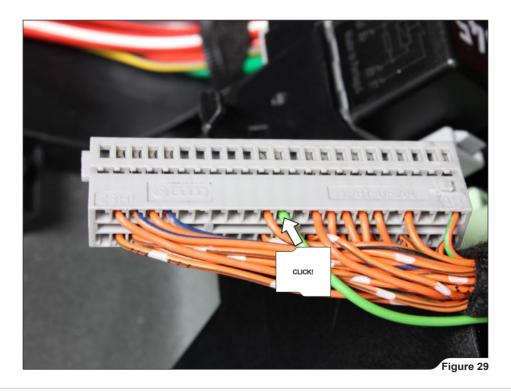


! IMPORTANT: make sure, that you plug in the wires, as follows (Figure 27, 28, 29): GREEN wire to be plugged in the connector's side where the wires are orange / black! YELLOW wire to be plugged in the connector's side where the wires are orange / brown!

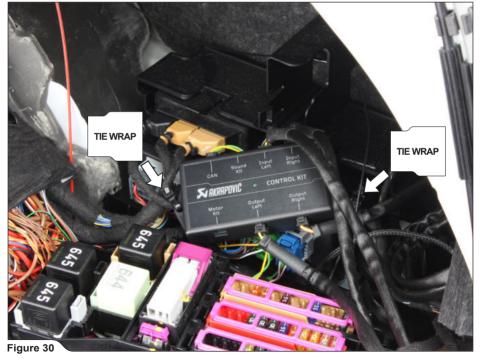




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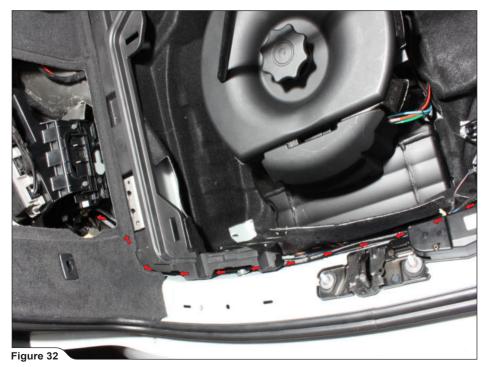


- 2. Assemble the Can Bus connector and attach it back into the power distribution box; install and secure the Control Kit's unit, as shown (Figure 30).
  - IMPORTANT: make sure, not to damage the Can Bus connector or any other part of the vehicle during this process!



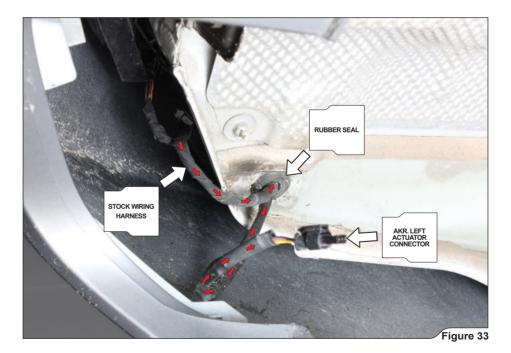
- 3. Distribute and secure the wiring harness (use tie wraps from Akrapovič installation kit), as shown to the left and right side of the trunk (Figure 31, 32).
  - IMPORTANT: make sure, not to damage any part of the vehicle during this process!



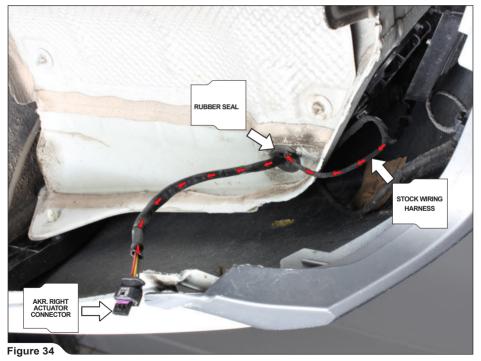




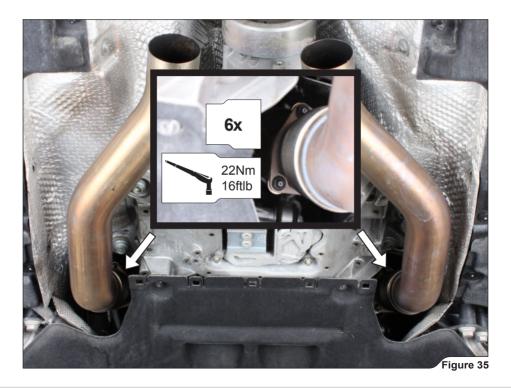
4. Remove the marked rubber seals and cut them half way through; retract the stock exhaust valve's wiring into the trunk through rubber seals holes on both sides of the vehicle, connect the stock connectors to the Akrapovič wiring harness connectors; protrude the Akrapovič wiring harnesses through the same rubber seal holes and distribute and secure the wiring harness (use tie wraps from Akrapovič installation kit), as shown to the left and right side of the trunk (Figure 33, 34).



MPORTANT: make sure, not to damage the harness, connectors or any other part of the vehicle during this process!



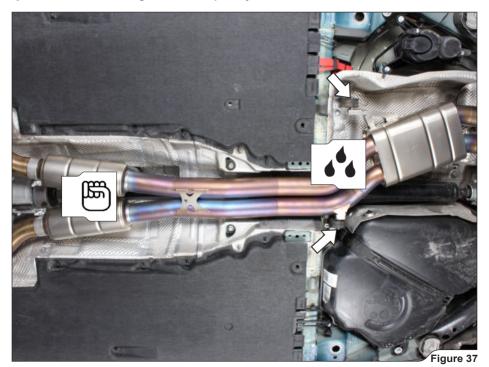
- 5. Install the Akrapovič link pipes onto the stock down pipes, using stock flange nuts (Figure 35).
  - IMPORTANT: use new exhaust gaskets in Akrapovič link pipes stock down-pipes joints!



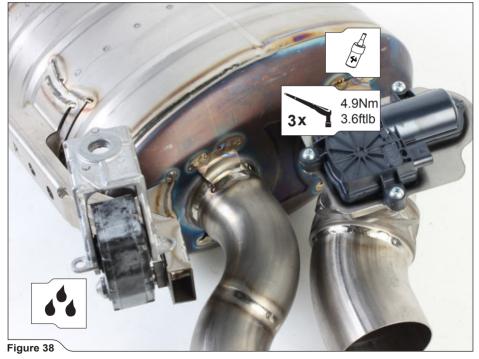
- 6. Correctly orient and attach the clamps (from Akrapovič installation kit) onto the collector's inlets, as shown (Figure 36).
  - IMPORTANT: use anti-seize copper paste on clamps' bolts and nuts threads!
  - IMPORTANT: do not tighten the clamps yet!

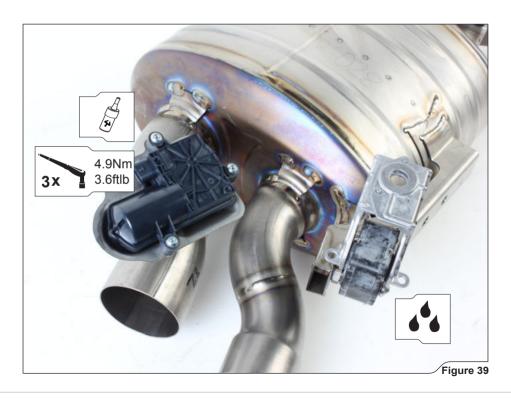


- 7. Slide the collector all the way onto the link pipes outlets, attach the collector's bracket pins to the stock rubber brackets and hand tighten the clamps (Figure 37).
  - CAUTION: make sure not to injure yourself or damage any part of the vehicle during this process!
- ! IMPORTANT: hand tighten the clamps only!



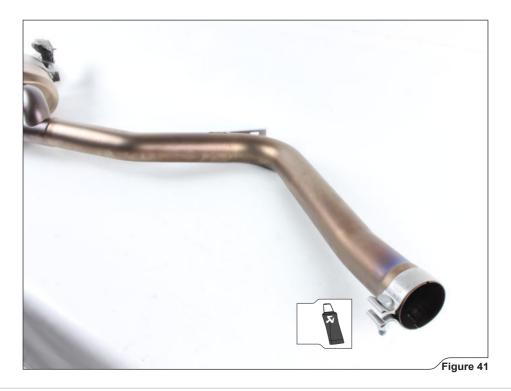
- 8. Install the stock exhaust valve actuators (using bolts and nuts from Akrapovič installation kit) and the stock muffler rubber brackets onto the Akrapovič mufflers, as shown (Figure 38, 39).
- ! CAUTION: make sure not to injure yourself or damage the valves or actuators during this process!
- IMPORTANT: use Akrapovič bolt sealant on the nuts and bolts threads!





- 9. Correctly orient and attach the clamps from Akrapovič installation kit, onto both mufflers' inlets, as shown (Figure 40, 41).
  - IMPORTANT: use anti-seize copper paste on clamps' bolts and nuts threads!
  - IMPORTANT: do not tighten the clamps yet!

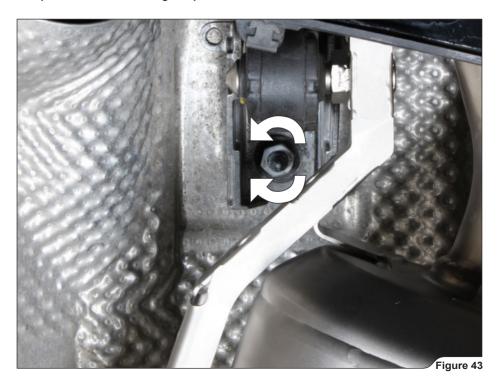


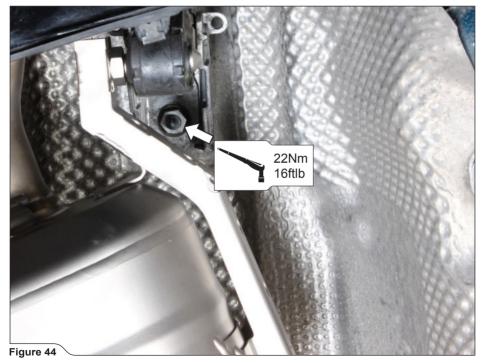


- 10. Slide the mufflers simultaneously onto the collector and hand tighten the stock rubber brackets onto the chassis (Figure 42).
  - ! CAUTION: make sure, not to injure yourself or damage the exhaust system or any other part of the vehicle during this process!



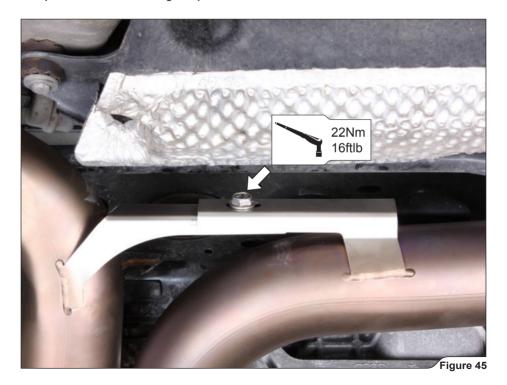
- 11. Center the mufflers' outlet tubes in respect to the rear bumper (by slightely rotating the brackets) and tighten the rubber brackets to the chassis (Figure 43, 44).
  - ! CAUTION: make sure, not to injure yourself or damage the exhaust system or any other part of the vehicle during this process!

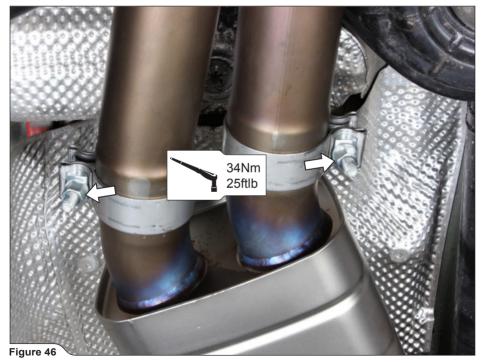




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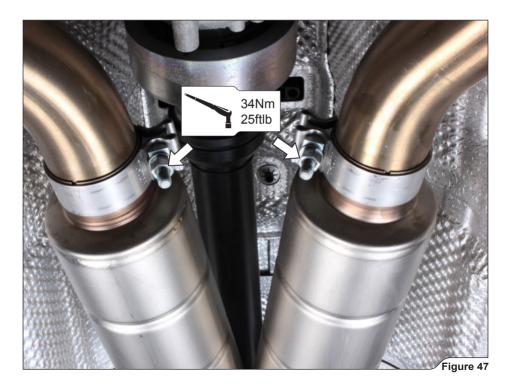
- 12. Tighten the mufflers' connection (using bolt and nut from Akrapovič installation kit) and mufflers collector joints' clamps to the specified torque **(Figure 45, 46).** 
  - ! CAUTION: make sure, not to injure yourself or damage the exhaust system or any other part of the vehicle during this process!





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- 13. Tighten the collector link pipes joints' clamps to the specified torque (Figure 47).
- ! CAUTION: make sure, not to injure yourself or damage the exhaust system or any other part of the vehicle during this process!



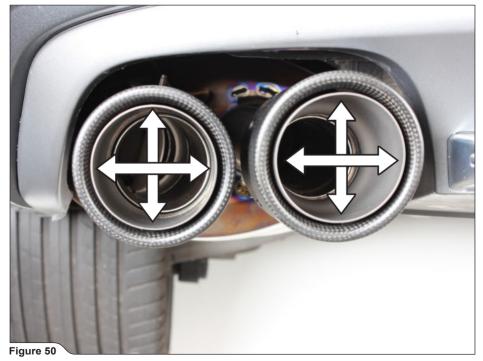
- 14. Connect the exhaust valve actuators on both sides of the vehicle (Figure 48).
  - ! CAUTION: make sure, not to injure yourself or damage the exhaust system or any other part of the vehicle during this process!



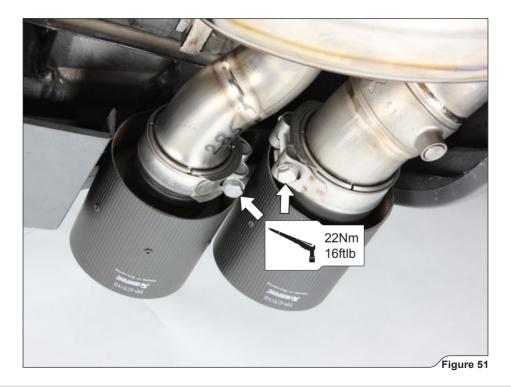
- 15. Assemble the clamps and spherical rings onto the tail pipes, as shown (Figure 49).
  - IMPORTANT: use anti-seize copper paste on all clamp bolt threads!



- 16. Slide the tail-pipes onto the muffler outlets. Rotate and center them in respect to rear bumper and according to your personal preference (Figure 50).
  - IMPORTANT: make sure, not to damage tail pipes, bumper or any part of the vehicle during this process!



17. Tighten tail pipe clamps to the specified torque on both sides of the vehicle (Figure 51).



! IMPORTANT: secure all vacuum tubing connections, using clamps from Akrapovič installation kit! Install the clamps with corresponding tube clamp pliers.



#### FINAL INSTALLATION:

- ! IMPORTANT: reinstall the dismounted 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:

- 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.
- 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 S7. THERE MAY BE SOME DIFFERENCES IN INSTALLATION PROCEDURES FOR OTHER MODELS.

## TROUBLESHOOTING:

| Problem               | Possible cause | Solution   |
|-----------------------|----------------|--|
| Valves are not moving | No Supply      | Check green LED on the Control Kit. If the LED is off: Check electrical connection and connectors Check fuse for exhaust valves (left side of the dashboard) |
| Valves are not moving | Error detected | Check green LED on the Control Kit. If the LED is blinking fast: Check yellow/green wires, case of inversion.  |



### **DECLARATION OF CONFORMITY OF CONTROL KIT**

COMPANY: Akrapovič d.d. ADDRESS: Malo Hudo 8a

1295 Ivančna Gorica, Slovenia

declares that the following products:

Product name: Control Kit Trade Name: Akrapovič Type or model: P-HF886

is in conformity with the requirements of the following Directives of the European Union: Regulation UN/ECE-R10 rev5



### **FCC NOTICE**

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

You can view your product's FCC Declaration of Conformity (DoC) to the FCC 47 CFR Part 15, SubpartB, at http://www.akrapovic.com/docs/ControlKit/FCCCertification.pdf.

## **Industry Canada compliance statement**

This Class B digital apparatus complies with Canadian ICES-003. This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

# **European Union Directives Conformance Statement**

Akrapovič d.d. hereby declares that this Akrapovič Control Kit P-HF886 is in compliance with the essential requirements and other relevant provisions of Directive 2004/108/EU

You can view your product's Declaration of Conformity (DoC) to Directive 2004/108/EU (to EMC Directive) at http://www.akrapovic.com/docs/ControlKit/CECertification.pdf.





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