



Installation instructions

Akrapovič Exhaust System:

Slip-On

for the

Audi R8 Coupe 5.2 FSI Quattro

Audi R8 Spyder 5.2 FSI Quattro

Audi R8 FL Coupe 5.2 FSI Quattro

Audi R8 FL Spyder 5.2 FSI Quattro



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Congratulations on purchasing an Akrapovič exhaust system. Please read the entire installation manual prior to undertaking any activities related to installation of your new Akrapovič exhaust system. In case you do not fully understand the manual or any of its parts, please contact your authorized dealer!

This product should be installed by someone with sufficient knowledge of exhaust systems and their installation, and appropriate hand or power tools. If you are not qualified for this work, please utilize a certified mechanic for installation. By installing Your Akrapovič exhaust system, you indicate that you have read the installation manual in its entirety and you agree with the terms stated herein.

It is your responsibility to follow all installation instruction guidelines supplied with the Akrapovič exhaust system and undertake all necessary safety precautions. Akrapovič d.d. assumes no responsibility for damages occurring from misuse, abuse, improper installation, improper operation, lack of responsible care, or all previously stated reasons resulting from incompatibility with other manufacturer's products and/or systems.

IMPORTANT INFORMATION

Exclusion of Certain Liability

1. The manufacturer, importer or dealer shall not be liable for any incidental damage including personal injury or any other damages caused by improper installation or operation of the Akrapovič exhaust system. When installing the Akrapovič exhaust system be careful that the exhaust system does not touch other parts sensitive to high temperature.
2. Akrapovič makes no representation or warranties with regard to damage caused by the improper installation, use and maintenance of the Akrapovič exhaust system. The warranty is limited to defects recognized by our technical department and due to normal use, and excludes items subject to normal wear (gaskets and damping wool). The guarantee is void in case of accident, modification, improper or competition use.
3. Do not attempt to install the Akrapovič exhaust system on a vehicle model for which it was not made or tested by Akrapovič.
4. When the exhaust system gets very hot during operation, be careful not to burn yourself on the exhaust system or parts which are in direct contact with it, even when the engine is not running. Also protect other people, especially children, from the injuries mentioned above.

1. In some cases Akrapovič exhaust system kits contain chemical products (ceramic anti-seizing grease; bolt sealant). Handle with care, do not inhale or swallow. Avoid excessive contact with skin, eyes or mucous membranes. Keep out of reach of children.
2. Technical specifications of Akrapovič exhaust systems and related products are subject to change without notice.
3. Before removing the original exhaust system from your vehicle, please compare the parts you received with the list of materials provided in the installation manual in order to assure that you have all the parts necessary for the installation of your new Akrapovič exhaust system.
4. Although this manual consists of instructions for installation in written form, as well as photographs and pictures representing individual steps of the installation, please note that the photographs and pictures are symbolic and are intended for representation of general overview only. The photographs and pictures contained herein should serve as a guideline only and actual installation of the exhaust system may not correspond with the photographs and pictures entirely.
5. 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.

Trademarks

The Akrapovič Exhaust System Technology logo is a registered trademark of Akrapovič d.d.

Akrapovič website

Information about Akrapovič exhaust systems and related products is available on the Akrapovič website at:

<http://www.akrapovic.com/>

Copyright

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Symbols

The following symbols are used throughout these installation instructions:



TOOLS REQUIRED



TIGHTENING TORQUE



INSTALLATION TIP



CAUTION OR WARNING



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 the 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. Avoid excessive skin 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. Avoid excessive skin contact. Keep out of reach of children.**



Bi-hex 17 socket
T-handle swivelling 10mm wrench
T-handle swivelling 13mm wrench
T-handle swivelling TX E10 wrench
Combination 10mm wrench
Combination 16mm wrench
Torx 25 wrench
Torx 27 wrench
Torx 30 wrench
Cross head screwdriver
Cutting nippers
Heat Gun



BEFORE INSTALLING, CHECK SCHEMATIC OF THE EXHAUST SYSTEM! THE LATEST VERSION OF THE PARTS LIST AND SCHEMATIC DRAWINGS OF THE PRODUCTS ARE AVAILABLE ON OUR WEB PAGE.



IF ANY ITEMS IN THE AKRAPOVIČ EXHAUST SYSTEM PACKAGE ARE MISSING, PLEASE CONTACT YOUR AUTHORIZED DEALER. KEEP THE SCHEMATIC FOR FUTURE REFERENCE.



THESE INSTALLATION INSTRUCTIONS MUST BE READ CAREFULLY IN ORDER TO ENSURE PROPER INSTALLATION AND OPERATION OF THE AKRAPOVIČ EXHAUST SYSTEM.



THE EXHAUST SYSTEM CAN BE EXTREMELY HOT. ALLOW THE EXHAUST AND ENGINE TO COOL DOWN BEFORE BEGINNING INSTALLATION.



WE ADVISE YOU TO LEAVE INSTALLATION TO A QUALIFIED SERVICEMAN. IMPROPER INSTALLATION MAY RESULT IN A SHORTER LIFETIME OF THE EXHAUST SYSTEM AND/OR DAMAGE TO THE VEHICLE.



THIS MANUAL IS SPECIFIC TO THE AUDI R8 SPYDER . THERE MAY BE SOME DIFFERENCES IN INSTALLATION PROCEDURES FOR OTHER R8 MODELS.



WHEN INSTALLING AKRAPOVIČ'S AFTERMARKET OPTIONAL DOWN PIPES WITHOUT CATALYTIC CONVERTERS, WHICH ARE DEVELOPED FOR USE ON CLOSED TRACKS ONLY, REMAPPING OF THE ECU IS MANDATORY. THE AKRAPOVIČ COMPANY TAKES NO RESPONSIBILITY FOR ECU REMAPPING OR ANY POTENTIAL ISSUES RELATED TO THE USE OF AKRAPOVIČ DOWN PIPES.



AT EACH ENGINE START, THE EXUP VALVE MAY VIBRATE FOR A FEW SECONDS UNTIL THE VACUUM SYSTEM REACHES OPERATING PRESSURE.

REMOVAL OF STOCK EXHAUST SYSTEM:

Put the vehicle onto a car lift.

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

1. Unscrew and remove rear wheels and wheel arch panels on both sides of the vehicle (**Figure 1, 2, 3**).



Figure 1

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

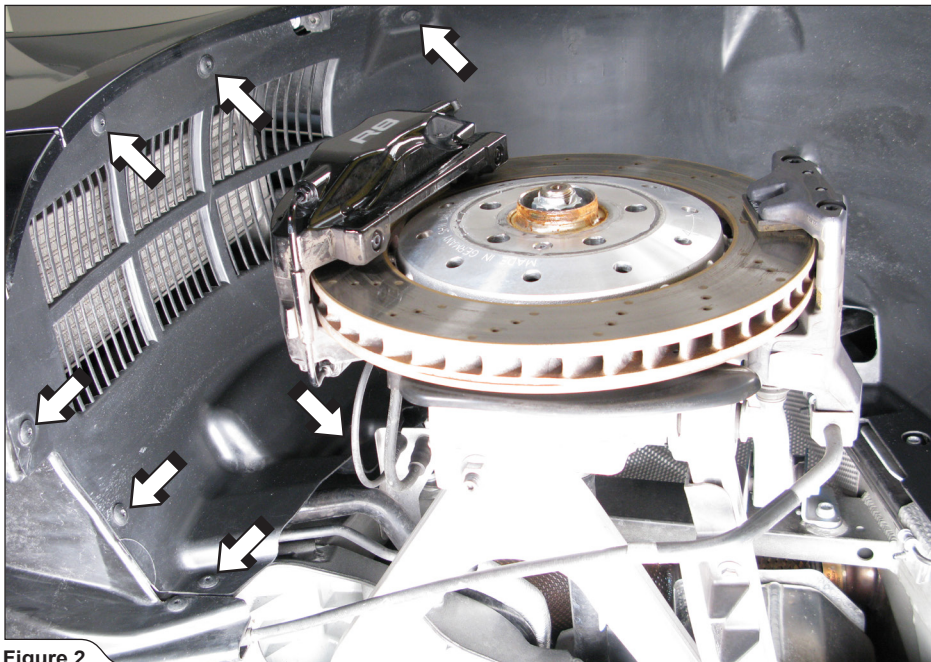


Figure 2

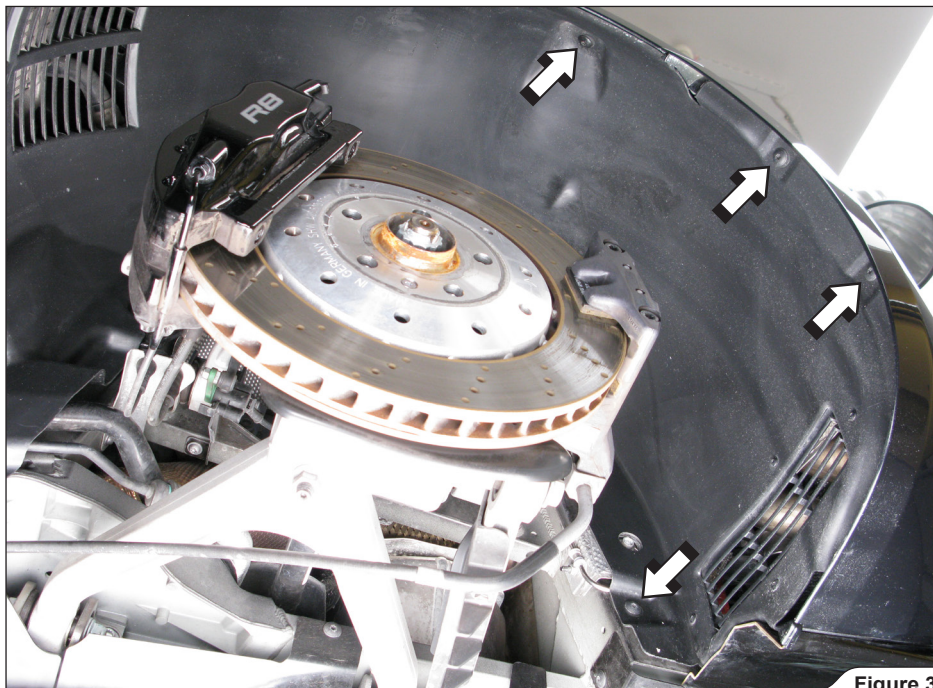


Figure 3

2. Unscrew the marked bolts and remove the diffuser off the vehicle (**Figure 4, 5**).

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



Figure 4

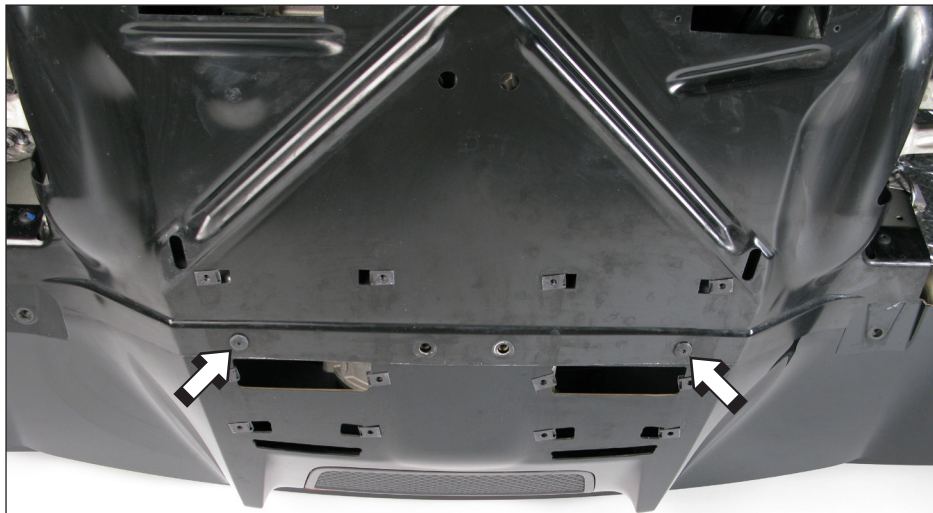


Figure 5

3. Unscrew the marked bolts on both sides of the vehicle and carefully remove the wheel arch panels' heat shields (Figure 6).

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



Figure 6

4. Disconnect the marked electrical connector on the left side of the vehicle (**Figure 7**).

! **WARNING:** make sure, not to damage the connector or any other part of the vehicle during this process!

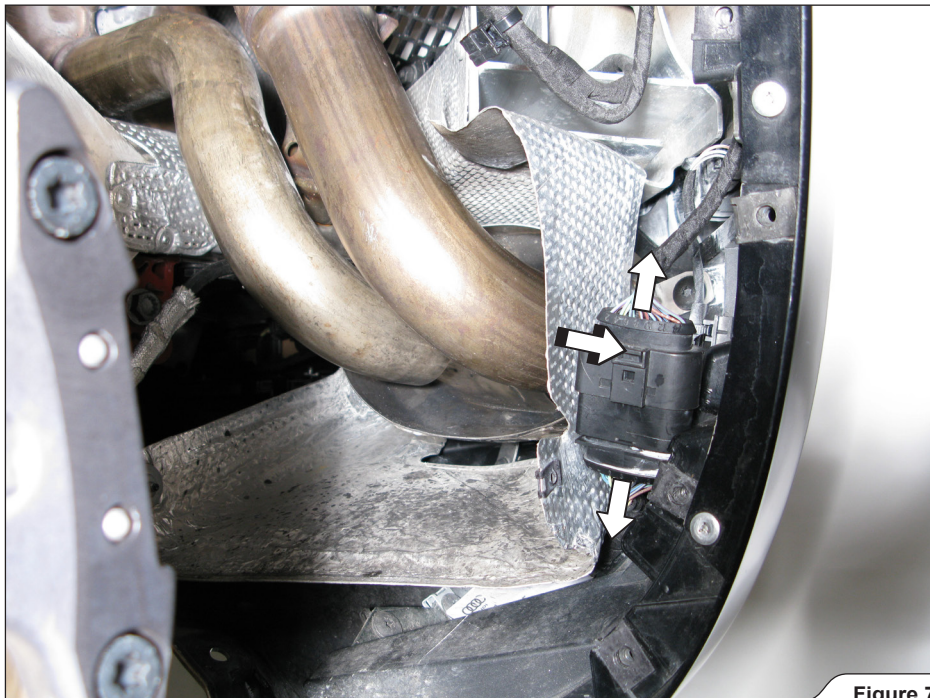


Figure 7

5. Unscrew the marked bolts on both sides of the vehicle (**Figure 8**).



Figure 8

6. Undo and disconnect the number plate's lights and unscrew marked bolts (Figure 9).

! **WARNING:** make sure, not to damage any part of the vehicle during this process!



Figure 9

7. Unscrew the marked bolts (**Figure 10**).



Figure 10

8. Unscrew the marked bolts on both sides of the vehicle (**Figure 11**).



Figure 11

9. Unscrew the marked nuts on both sides of the pop-up spoiler and remove the spoiler off the vehicle (**Figure 12**).

! **WARNING:** make sure, not to damage any part of the vehicle during this process!

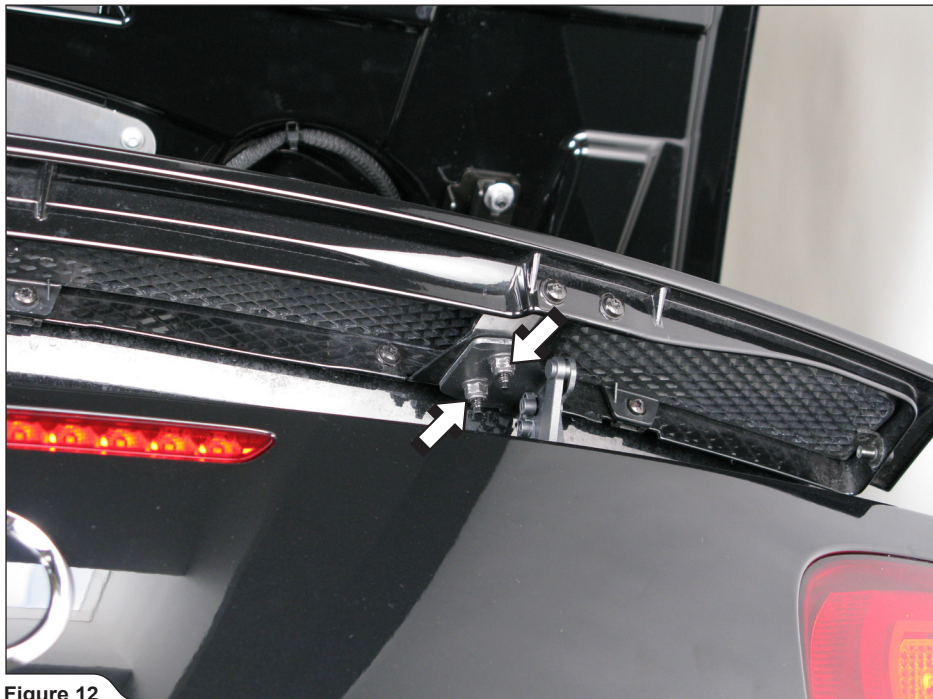


Figure 12

10. Unscrew the marked bolts on both and nuts sides of the vehicle (**Figure 13**).



Figure 13

11. Disconnect the marked electrical connector on the right side of the vehicle (**Figure 14**).

! **WARNING:** make sure, not to damage the connector or any other part of the vehicle during this process!

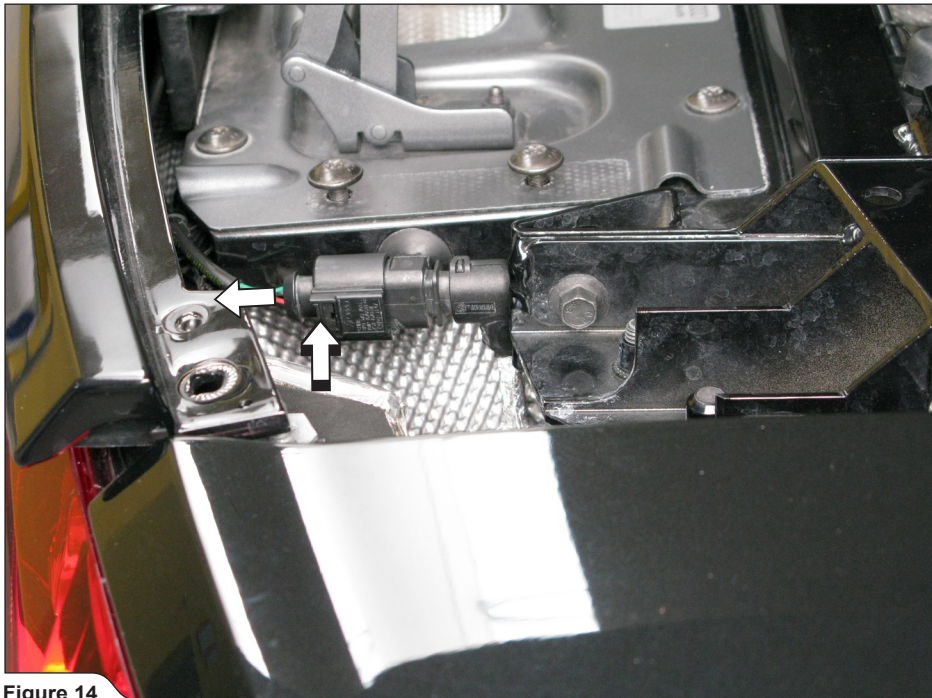


Figure 14

12. Disconnect the marked electrical connectors and carefully remove the tail trim off the vehicle (Figure 15).

! WARNING: make sure, not to damage the connectors, tail trim or any other part of the vehicle during this process!

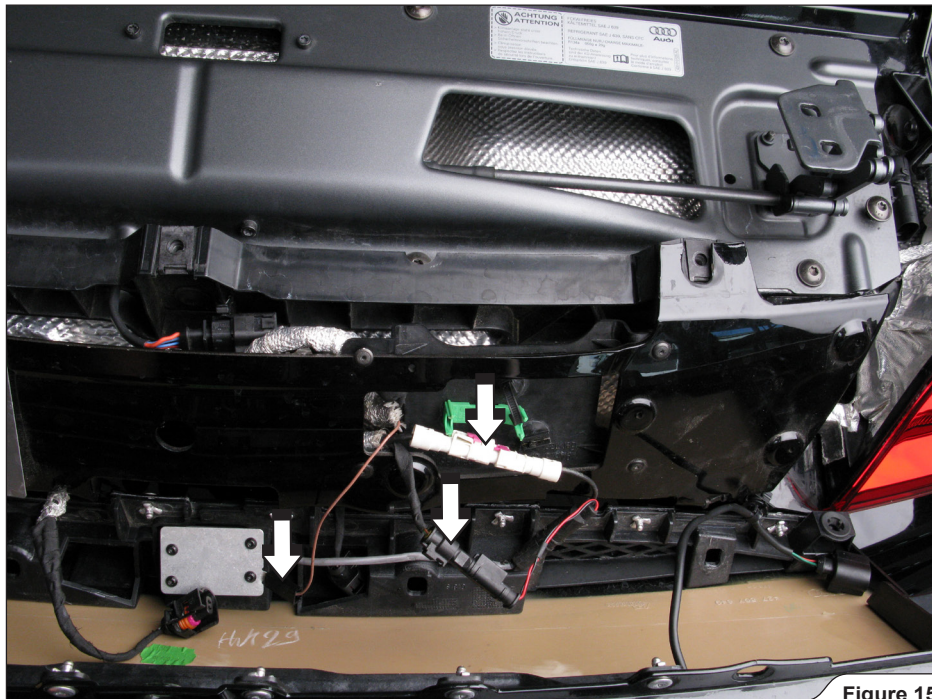


Figure 15

13. Disconnect the marked electrical connector and carefully remove the bumper trim panel off the vehicle (**Figure 16**).

! **WARNING:** make sure, not to damage the connector, bumper trim panel or any other part of the vehicle during this process!



Figure 16

14. Cut the marked tie wraps and disconnect the marked electrical connectors and remove the wiring harness out of the bumper carrier (**Figure 17, 18**).

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



Figure 17



Figure 18

15. Pull the vacuum tubes off both exhaust valves' actuators (**Figure 19**). Unscrew the marked nuts and bolts on both sides of the vehicle and remove bumper carrier (**Figure 19, 20**).

! WARNING: make sure, not to damage any part of the vehicle during this process!

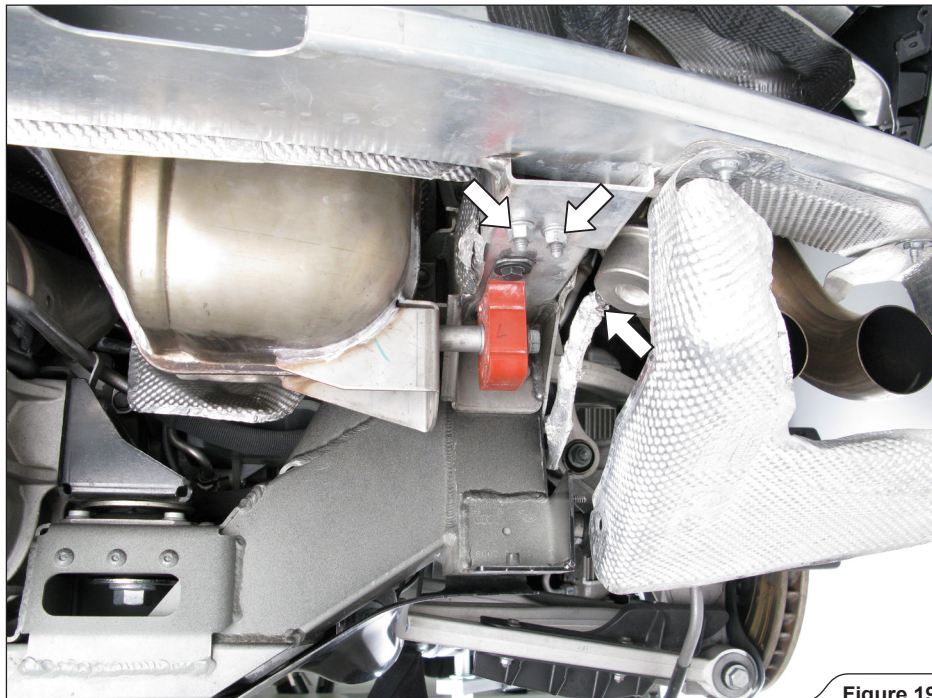


Figure 19



Figure 20

16. Disconnect the tail lights' electrical connectors, unscrew the marked nuts and bolts on both sides of the vehicle and remove the tail lights off the vehicle (**Figure 21, 22, 23**).

! WARNING: make sure, not to damage the connectors, tail lights or any other part of the vehicle during this process!



Figure 21



Figure 22



Figure 23

17. Unscrew the marked nuts and bolts on both sides of the vehicle and carefully remove the tail lights' heat shields (**Figure 24, 25**).

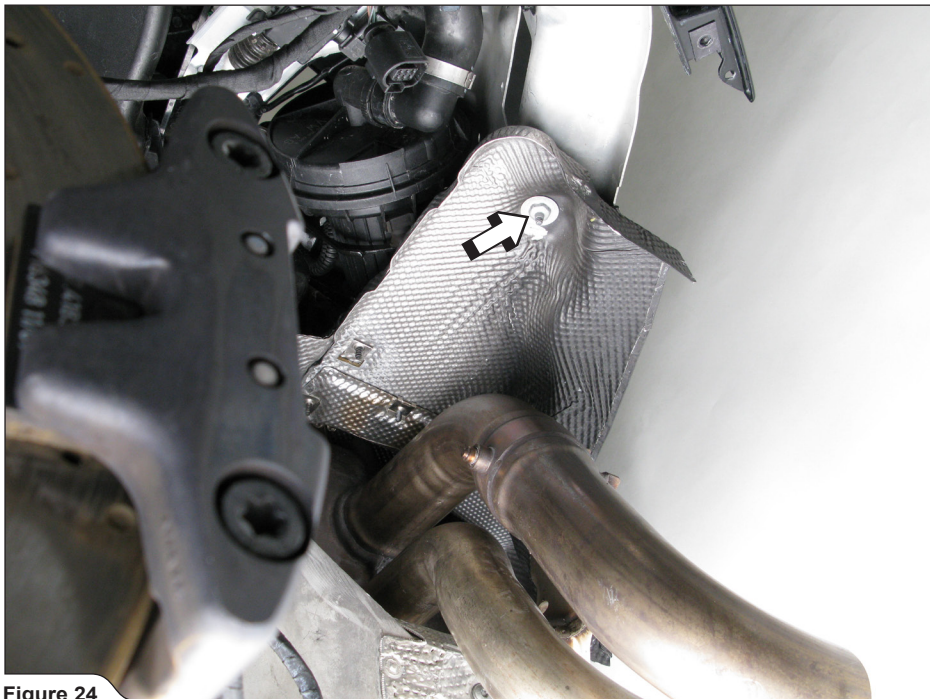


Figure 24

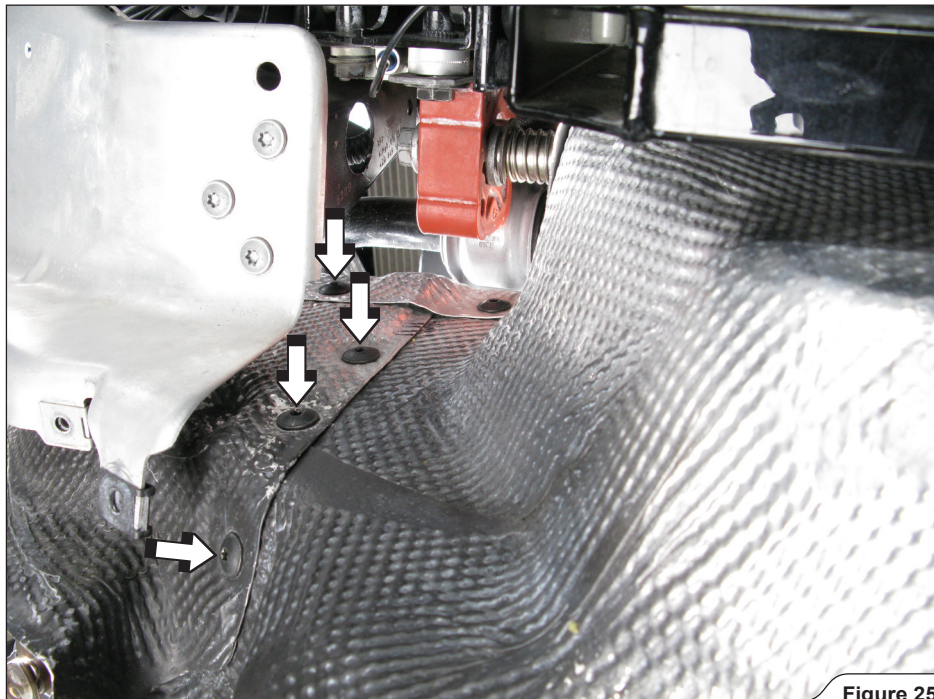


Figure 25

18. Unscrew the marked heat shield's bolts on both sides of the vehicle (**Figure 26**).

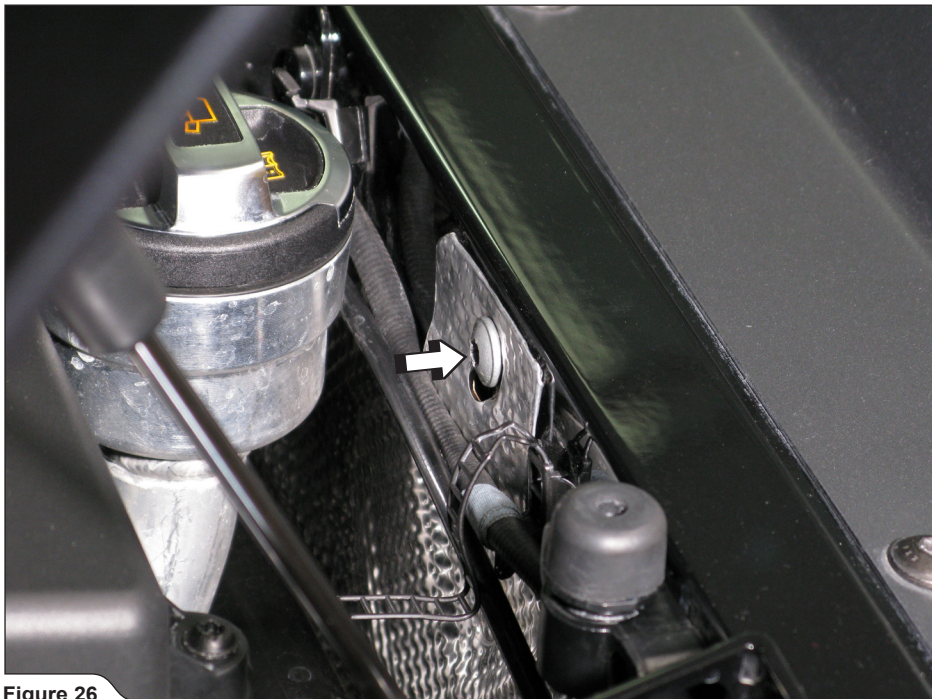


Figure 26

19. For easier dismounting of upper muffler's bolts, unscrew the marked nuts on both sides of the vehicle and partially remove both air blowers (**Figure 27**).

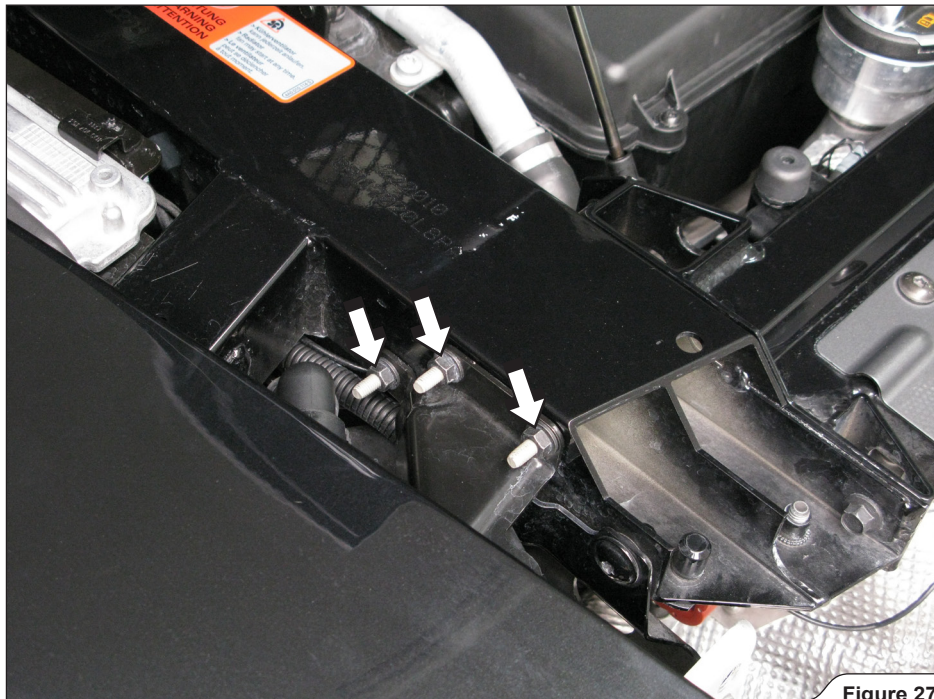


Figure 27

20. Unscrew the muffler's connection clamps on both sides of the engine (**Figure 28**).

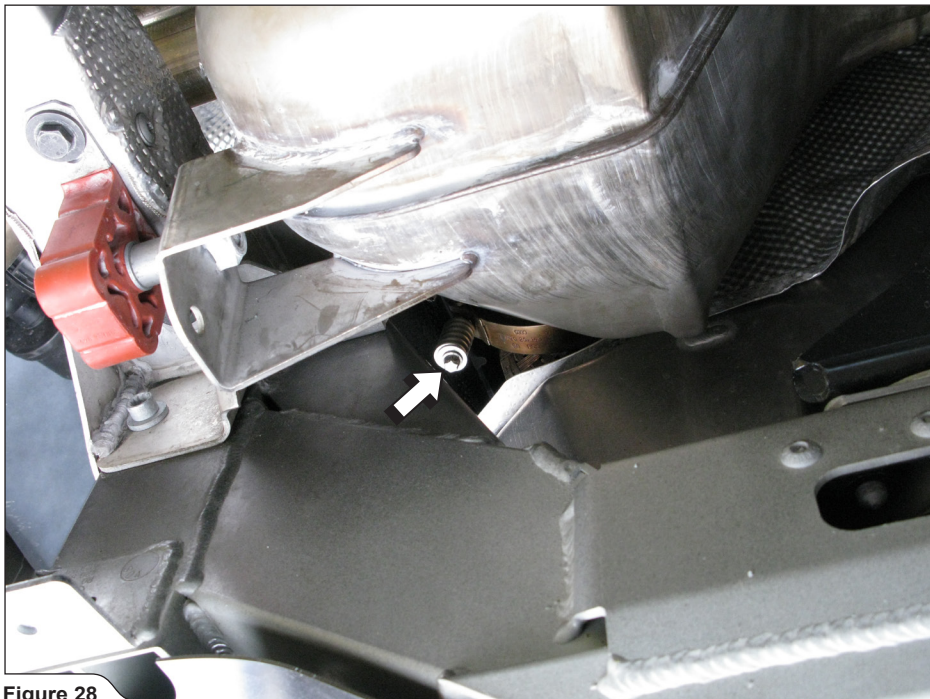


Figure 28

21. **For R8 FL model only:** carefully dismount both air boxes and unscrew the muffler's connection clamps on both sides of the engine (**Figure 29, 30**).

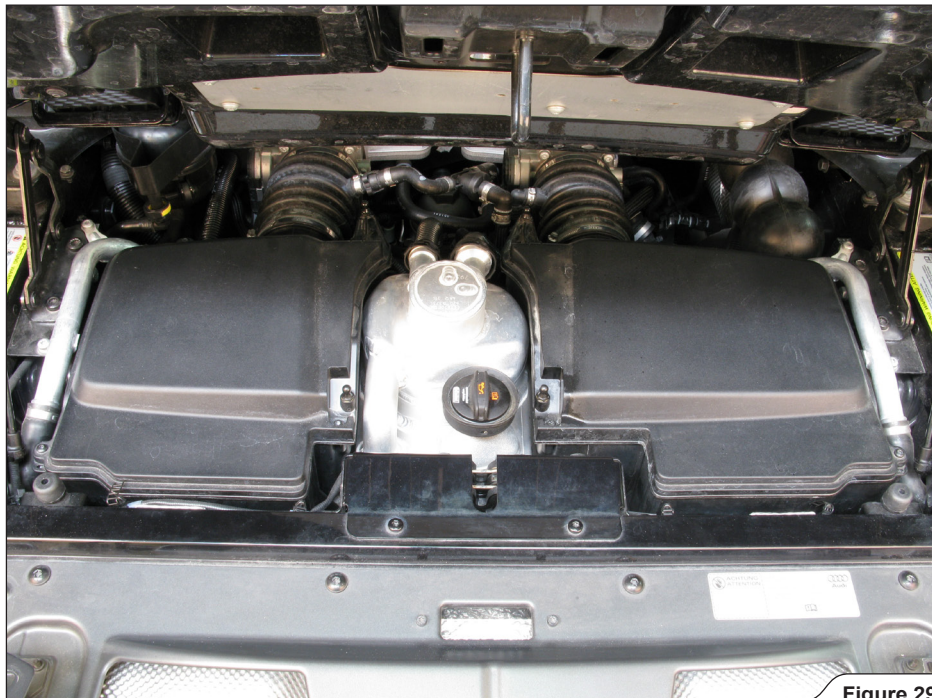


Figure 29

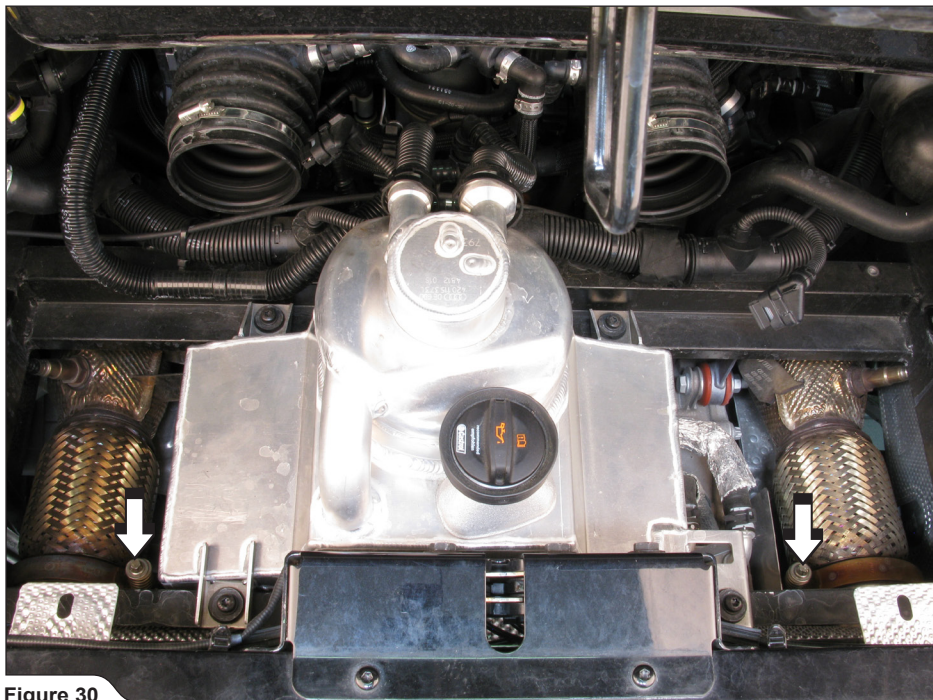


Figure 30

22. Unscrew the marked bolts on both sides of the muffler and carefully remove the muffler off the vehicle (**Figure 31**).

! WARNING: make sure, not to damage any part of the vehicle during this process!

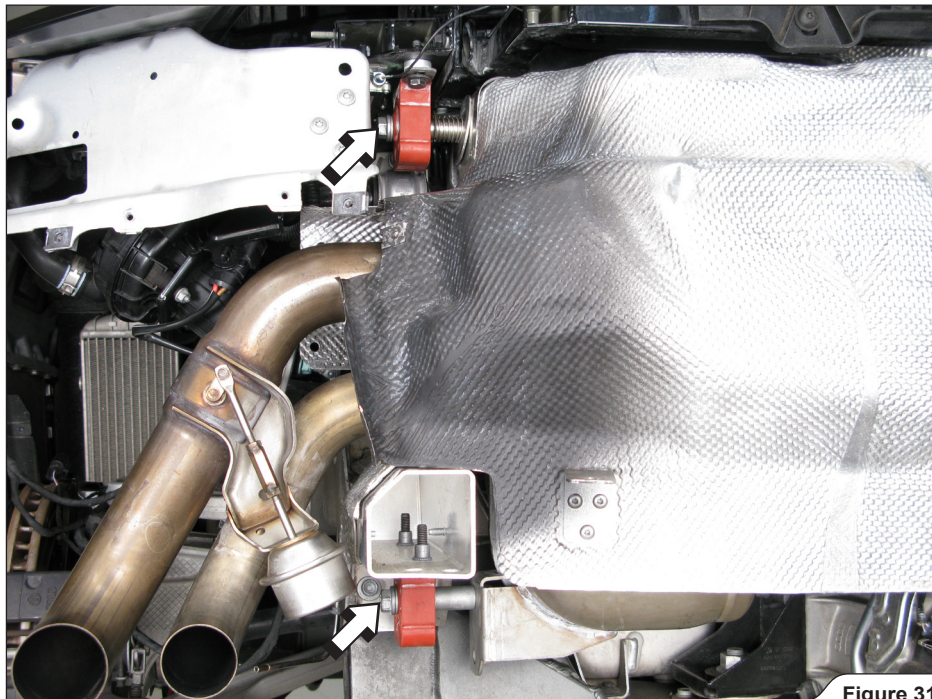


Figure 31

23. Unscrew the marked bolts and carefully remove the front part of the muffler's heat shield (Figure 32).

! WARNING: make sure, not to damage the heat shield during this process!



Figure 32

24. Undo the marked spring clip and remove the spring and washer on both sides of the muffler, than carefully remove the rear part of the muffler's heat shield (**Figure 33**).

! WARNING: make sure, not to damage the heat shield during this process!

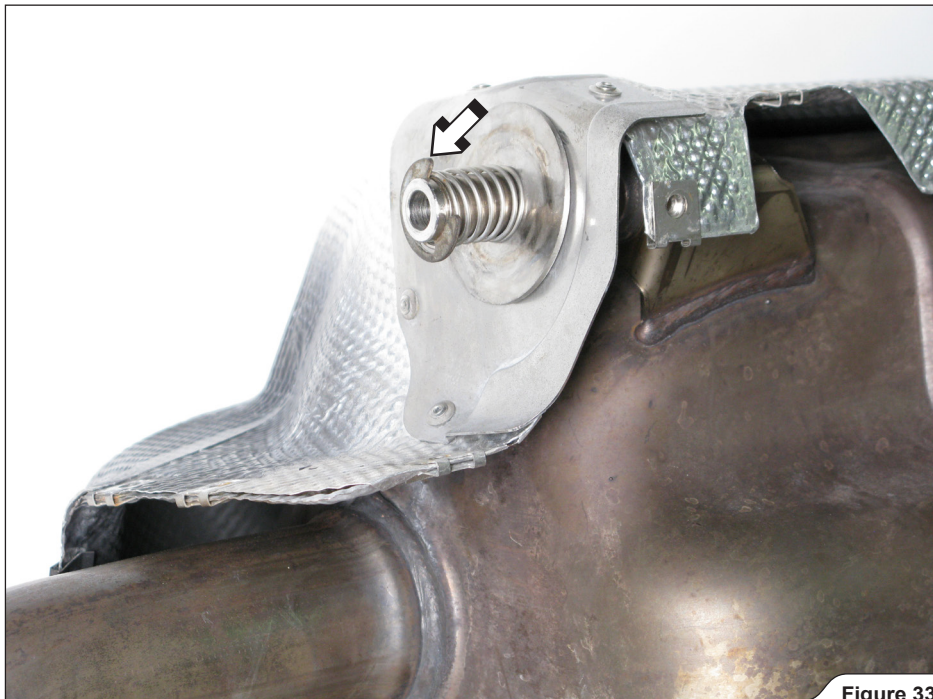


Figure 33

25. Carefully pull the vacuum rubber tubes with heat protection off the metal vacuum tubes on both sides of the vehicle (**Figure 34**).

! WARNING: make sure, not to damage the tubes' heat protection during this process!



Figure 34

26. Carefully remove the heat protection off the rubber vacuum tubes (**Figure 35**).

! WARNING: make sure, not to damage the tubes' heat protection during this process!



Figure 35

27. **For R8 model only:** Unscrew and remove both tail pipes off the bumper trim panel (Figure 36).
! WARNING: make sure, not to damage the bumper trim panel during this process!

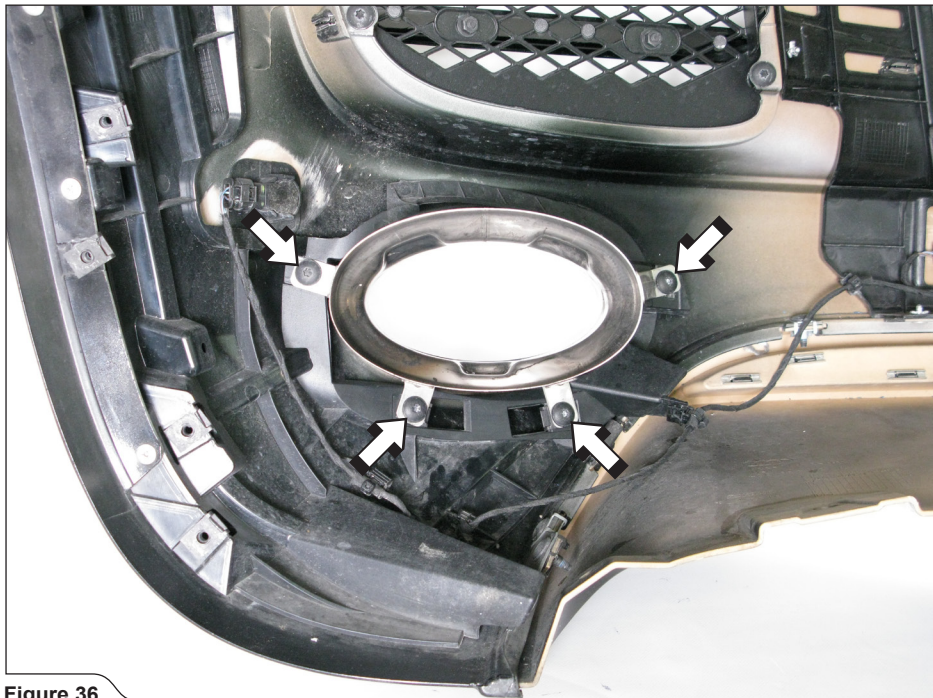


Figure 36

28. **For R8 FL model only:** unscrew and remove both tail pipes off the bumper trim panel (**Figure 37, 38**).

!

WARNING: make sure, not to damage the bumper trim panel during this process!



Figure 37



Figure 38

INSTALLATION OF THE AKRAPOVIČ EXHAUST SYSTEM:

1. Assemble the stock heat protection, tape clamps and rubber vacuum tubes, as shown (Figure 39).

! CAUTION: do not tighten the clamps yet!

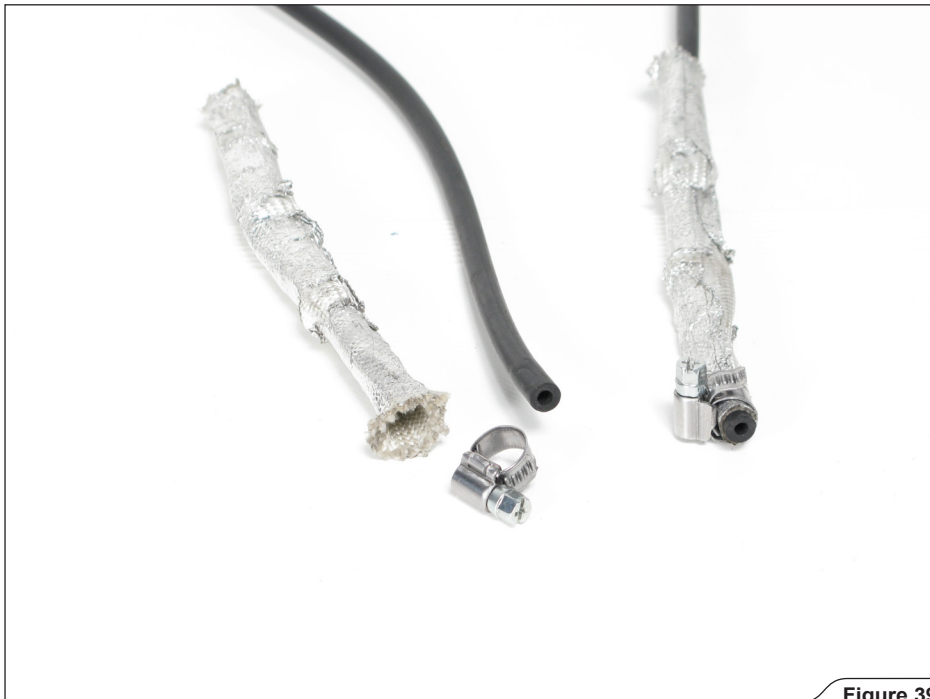


Figure 39

2. Mount the rear part of the stock muffler's heat shield onto the Akrapovič muffler, using stock washers, springs and spring clips (**Figure 40**).

! **WARNING:** make sure, not to damage the muffler or heat shield during this process!



Figure 40

3. Attach the rubber vacuum tubes from Akrapovič installation kit onto the both exhaust valve actuators and tighten the clamps (**Figure 41**).

! **WARNING:** make sure, not to damage the tube's heat protection during this process!

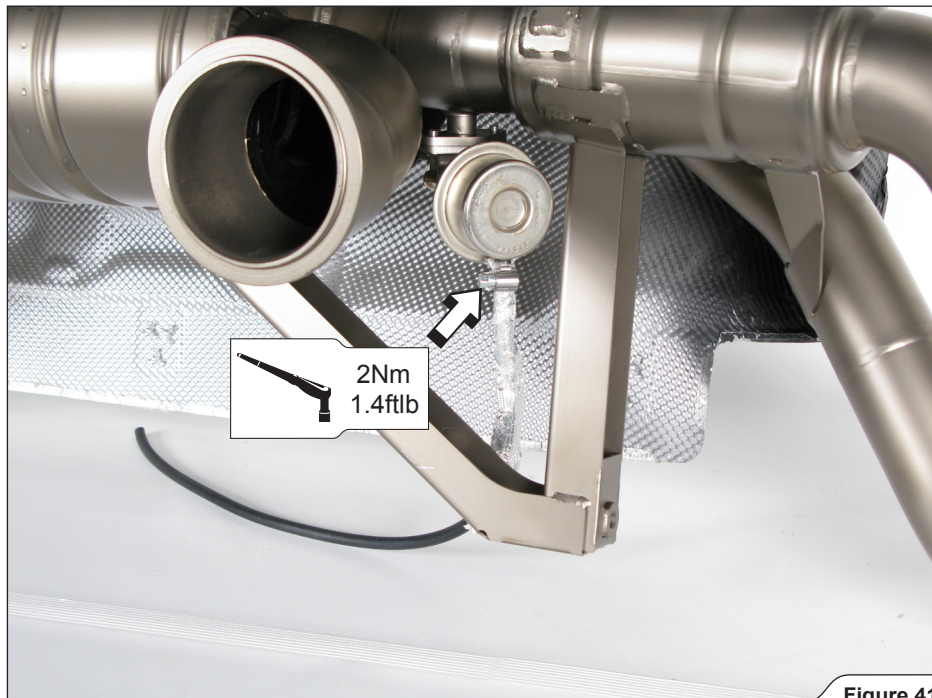


Figure 41

4. Mount the front part of the stock muffler's heat shield onto the Akrapovič muffler, using stock bolts (Figure 42).

! **CAUTION:** make sure, that vacuum tubes are not bent or obstruct in any way!

! **WARNING:** make sure, not to damage the heat shields during this process!

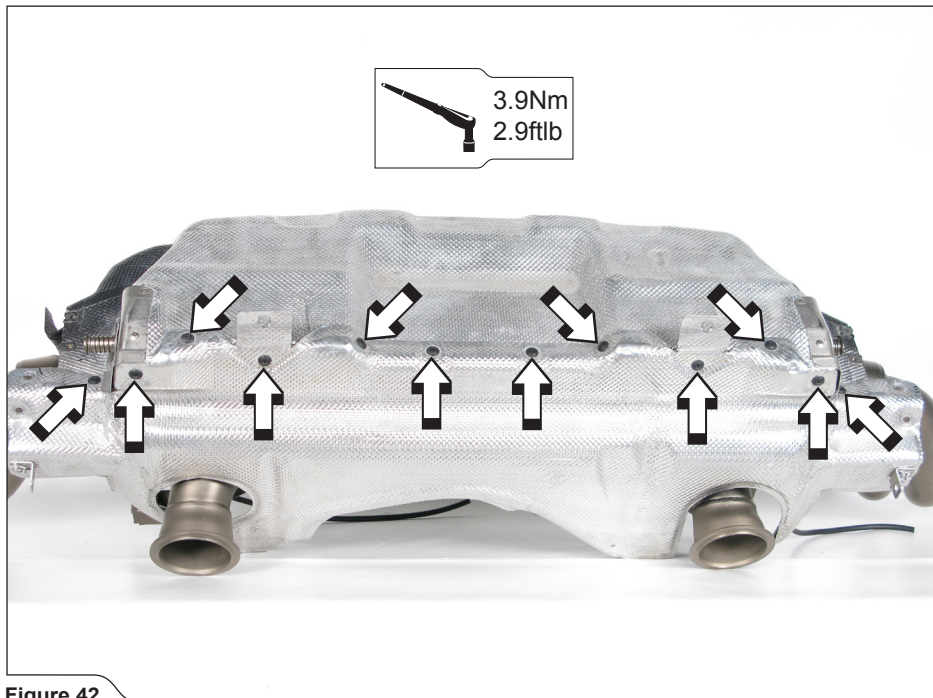


Figure 42

5. **For R8 FL model only:** use bolts from Akrapovič installation kit in the marked positions (Figure 43).



Figure 43

6. Carefully attach the assembled muffler onto the chassis, using stock bolts, washers and distance bushes (Figure 44).

! **WARNING:** make sure, not to damage any part of the vehicle during this process!

! **CAUTION:** adjust the original muffler's brackets if needed!

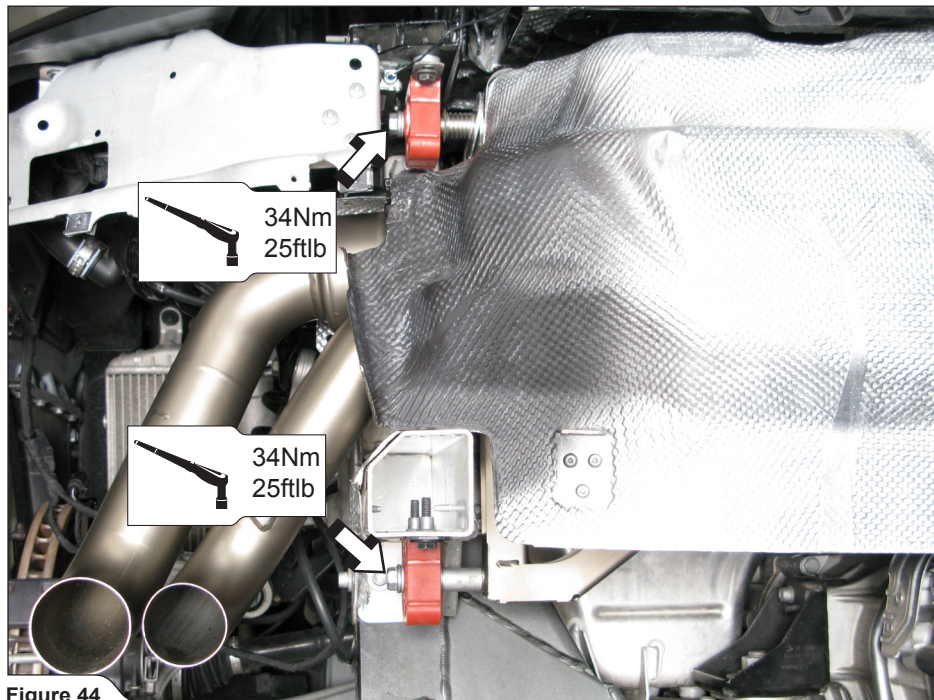


Figure 44

7. Tighten the stock muffler's connection clamps on both sides of the engine (**Figure 45**).
- !** **CAUTION:** make sure, that muffler's inlet flanges are correctly assembled onto the original flanges, before tightening the connection clamps!

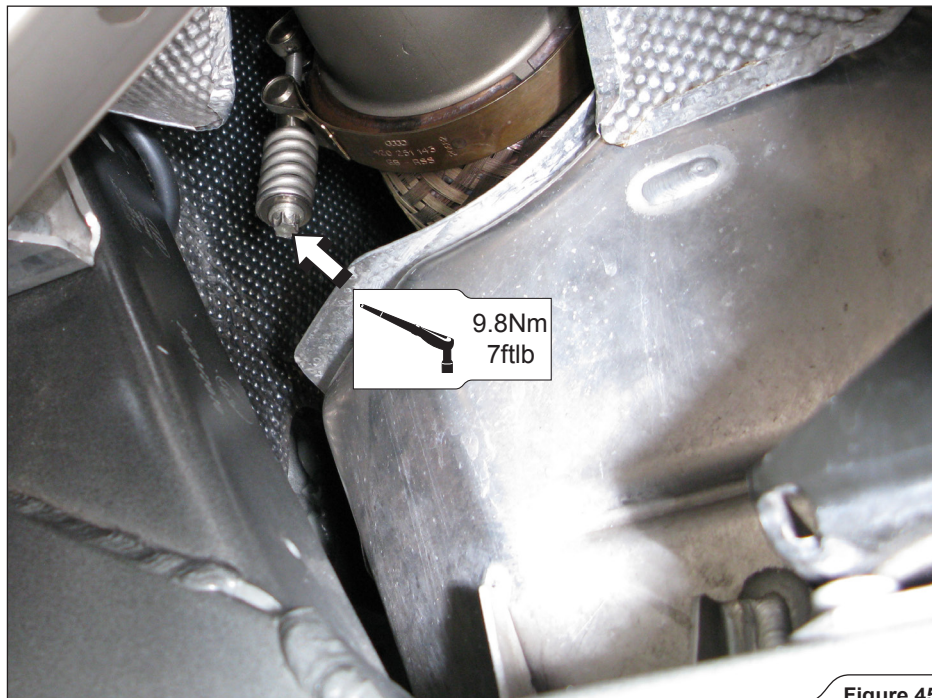


Figure 45

8. Direct the vacuum tubes as shown, shorten the left vacuum tube to appropriate length and connect the Akrapovič vacuum tubes to the stock metal vacuum tubes on both sides of the vehicle (Figure 46, 47).

! **WARNING:** direct the vacuum tubes in such a way, that they don't touch any hot or moving parts!

! **CAUTION:** make sure, that vacuum tubes are not bent or obstruct in any way!

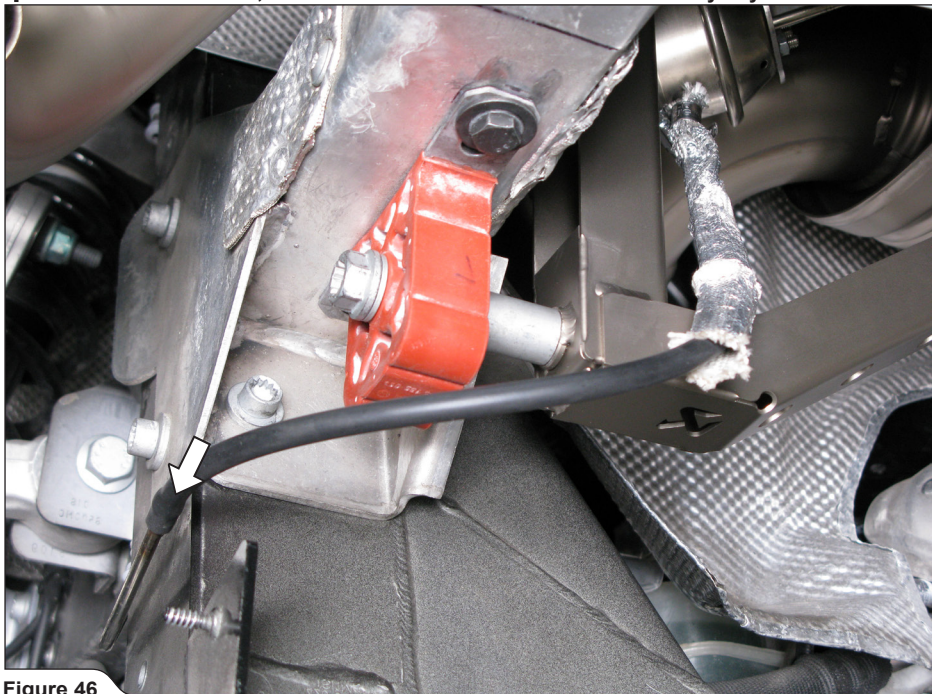


Figure 46

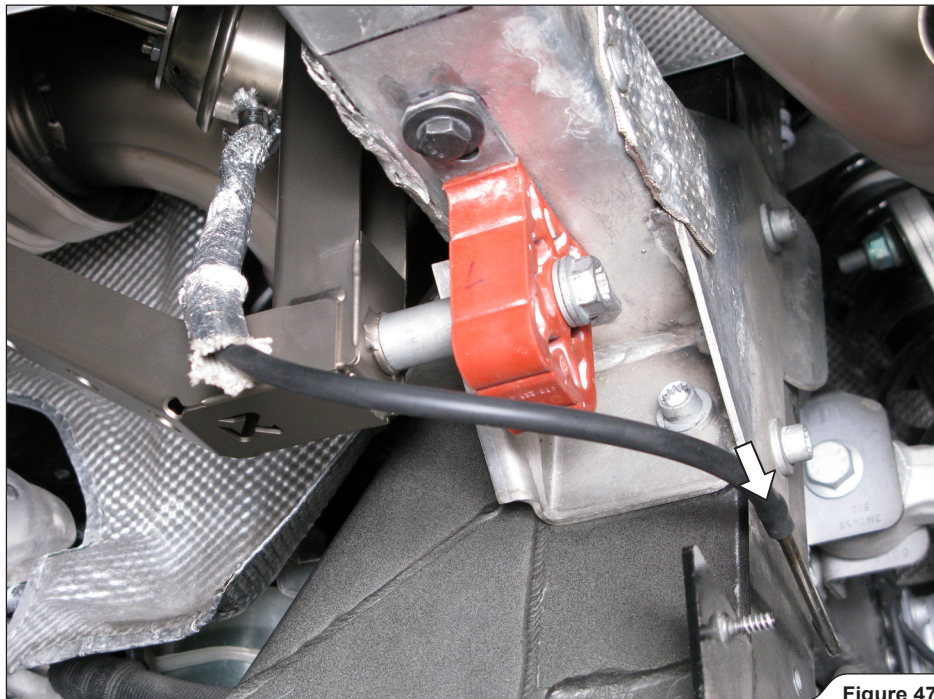


Figure 47

9. **For R8 model only:** attach the Akrapovič Tail Pipes onto the bumper trim panel, using stock bolts. Place the washers from installation kit under the Tail Pipe's brackets (if necessary), to level them in respect to each other (**Figure 48, 49**).

! WARNING: make sure, not to damage the bumper trim panel or any other part of the vehicle during this process!



Figure 48



Figure 49

10. **For R8 FL model only:** align both Akrapovič Tail Pipes in respect to the trim panel and each other. Attach the Tail Pipes using stock bolts (**Figure 50**).

! **WARNING:** make sure, not to damage the bumper trim panel or any other part of the vehicle during this process!



Figure 50

11. Replace all dismantled heat shields, bumper carrier, tail lights, tail trim, pop up spoiler, bumper trim panel, wheel arch panels, rear wheels and diffuser in the reverse order from the order in which they were removed. Check vehicle manufacturer manual for tightening torques.

! CAUTION: make sure, that you connect all disconnected electrical connectors!

! CAUTION: replace all clipped stock wiring harness tie wraps with tie wraps from installation kit!

12. **For optional wireless kit only:** locate the electromagnetic valve under the right wheel arch panel. Cut the wiring harness tie wrap, unscrew the valve's bracket, remove the vacuum tubes off the valve and disconnect the wiring harness-connector (**Figure 51**).

! WARNING: make sure, not to damage any part of the vehicle during this process!



Figure 51

13. **For optional wireless kit only:** connect the Akrapovič wiring harness (female connector) to the stock electromagnetic valve (**Figure 52**).



Figure 52

14. **For optional wireless kit only:** connect the Akrapovič wiring harness (male connector) to the stock wiring harness (female connector), correctly couple the vacuum tubes onto the electromagnetic valve, tighten the ground connector (black thin wire) together with valve's bracket onto the chassis and secure the wiring harness, using 250mm tie wrap from installation kit (**Figure 53**).

! WARNING: make sure, not to damage the wiring harness during this process!

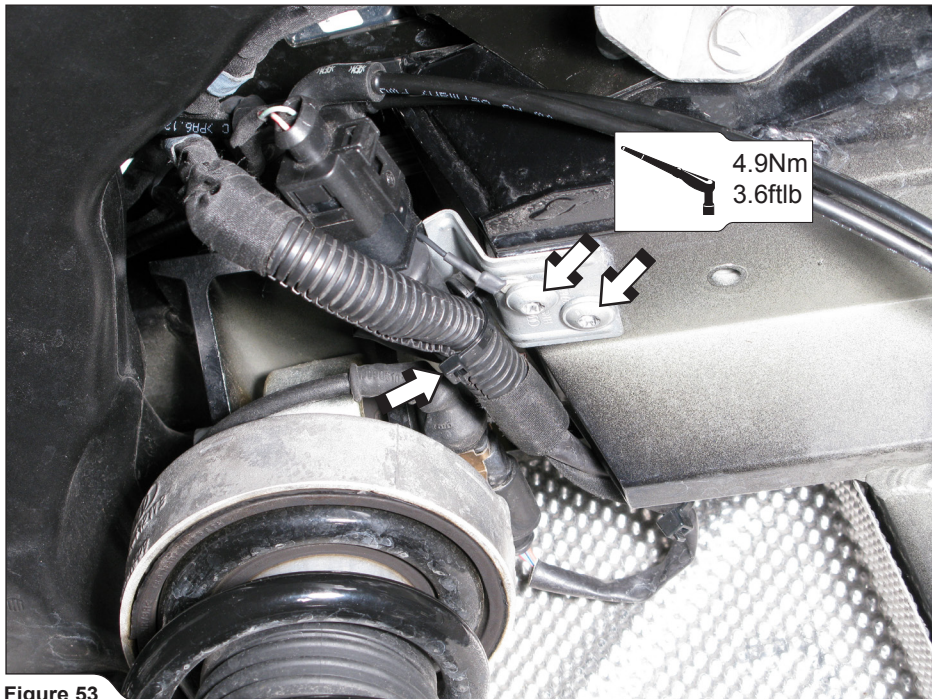


Figure 53

15. **For optional wireless kit only:** direct the Akrapovič wiring harness into the engine compartment and connect it to the transmitter (**Figure 54**).

! WARNING: make sure, not to damage the wiring harness or transmitter during this process!

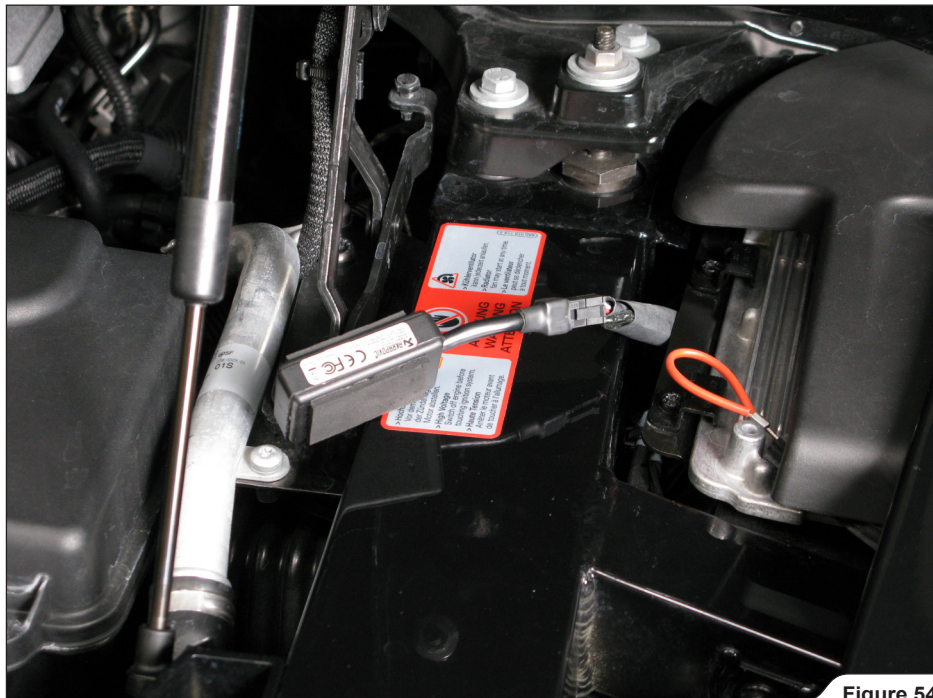


Figure 54

16. **For optional wireless kit only:** pull the heat shrinkable insulation over the connector and carefully heat it, using heat gun (**Figure 55**).

! WARNING: make sure, not to damage the wiring harness or transmitter during this process!



Figure 55

17. **For optional wireless kit only:** attach the transmitter onto the chassis, using 360mm tie wrap from installation kit (**Figure 56**).

! WARNING: make sure, not to damage the wiring harness or transmitter during this process!

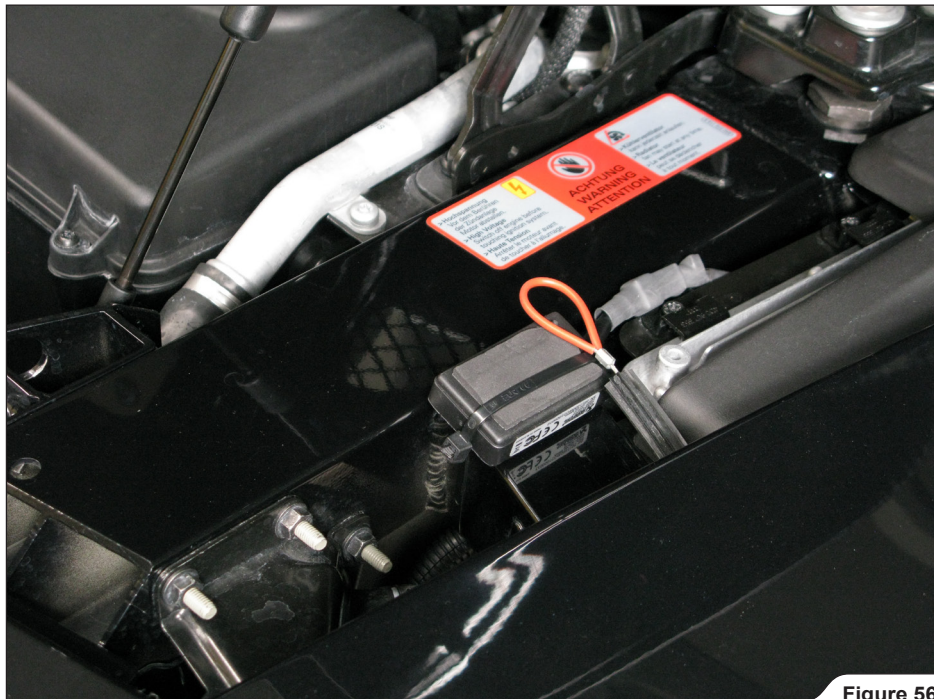


Figure 56

18. **For optional wireless kit only:** insert the keyfob into the cigarette lighter socket, start the engine and test the keyfob operations (**Figure 57**).



Figure 57

19. **For optional wireless kit only:** composition of remote and optional dashboard mounted keyfob components (**Figure 58**).



Figure 58

20. **For optional wireless kit only:** optional reducible component for cigarette lighter socket powered keyfob (**Figure 59**).



Figure 59

21. **For optional wireless kit only:** correctly assembled dashboard or additional bracket mounted keyfob components (**Figure 60**).

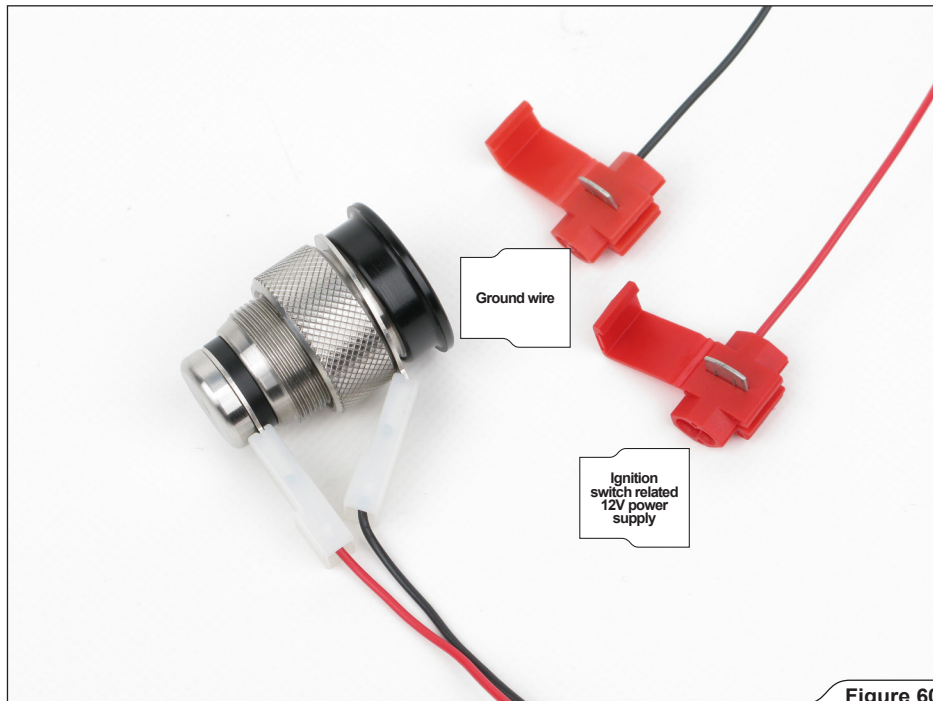


Figure 60

22. For optional wireless kit only: changing of remote keyfob battery (Figure 61).

! **WARNING:** make sure, that you insert the new battery correctly! Check the polarity of the battery (Battery type: Lithium CR1632 3V)!



Figure 61

KEYFOB OPERATION:

1. **USE:** keyfob is used to operate and control the exhaust system flaps.
2. **RANGE OF OPERATION:** inside and few meters around the vehicle.
3. **POWER OPTIONS:**

a) Battery power:

- when operating, press the button for more then two seconds.
- when pressed, the illumination turns on, and when released, it turns off.
- in battery mode, only half of the circle around the scorpion symbol is illuminated.
- if in use, battery life is approx. 1 year and if not in use, approx 2 years (Battery type: Lithium CR1632 3V).

b) 12V power (cigarette lighter socket):

- when operating, press the button for more then half a second.
- when pressed, the illumination stays on, depending on mode (on/off).
- in 12V mode, the whole of the circle around the scorpion symbol is illuminated.

4. **KEYFOB MODES:**

a) Battery power:

- CLOSED VALVES:



- OPEN VALVES:



- LOSS OF COMMUNICATION:
1 period of 5 flashes of white illumination.

b) 12V power (cigarette lighter socket):

- CLOSED VALVES:



- OPEN VALVES:



- LOSS OF COMMUNICATION:
3 periods of 5 flashes of white illumination.

5. **SAFETY:**



SWITCH ON: do not switch the keyfob on when wireless device use is prohibited or when it may cause interference or danger.



ROAD SAFETY COMES FIRST: obey all local laws. Always keep your hands free to operate the vehicle while driving. Road safety should be your first consideration while driving.



INTERFERENCE: all wireless devices may be susceptible to interference, which could affect performance.



SWITCH OFF IN HOSPITALS: follow any restrictions. Near medical equipment, switch the keyfob device off.



SWITCH OFF IN AIRCRAFT: follow any restrictions. Wireless devices can cause interference in aircraft.



SWITCH OFF WHEN REFUELING: do not use the keyfob at a refueling point. Do not use near fuel or chemicals.



SWITCH OFF NEAR BLASTING: follow any restrictions. Do not use the device where blasting is in progress.



QUALIFIED SERVICE: only qualified personnel may install or repair this product. Please refer to the wireless kit serial number in case of ordering any spare parts.



WATER-RESISTANCE: your keyfob is not water-resistant. Keep it dry.

Final installation:

- ! **WARNING: check vehicle manufacturer manual for tightening torques (for dismantled stock parts)!**
- ! **WARNING: make sure all the nuts and bolts are sufficiently tightened. In case the exhaust system touches the cowl or other parts, repeat the adjustment of the exhaust system or contact your authorized dealer.**

MAINTENANCE OF THE AKRAPOVIČ EXHAUST SYSTEM:

1. Clean the titanium exhaust components with a multi-purpose spray lubricant (WD-40 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.

- ! **WARNING: clean all exhaust components before the first start of the engine or the stains will burn onto the surfaces!**
- ! **IT IS NORMAL FOR WHITE SMOKE TO COME OUT OF THE MUFFLER AT FIRST OPERATION.**
- ! **DO NOT STAND BEHIND THE MUFFLER AT FIRST OPERATION.**
- ! **DO NOT USE AUTOMOTIVE WHEEL CLEANERS OR ANY CLEANING PRODUCTS WHICH CONTAIN ACIDIC ADDITIVES TO CLEAN THE AKRAPOVIČ EXHAUST SYSTEMS.**

WARNING

Please note that certain aftermarket exhaust systems may not comply with applicable California laws and regulations, and may therefore be prohibited for use on California highways or roads, or on roads or vehicles otherwise subject to emissions control requirements.

Akrapovič exhaust systems for automobiles and motorcycles mounted downstream of the catalytic converter (also known as “cat-back systems”) are considered “replacement parts” in California by the California Air Resources Board (CARB), and do not require an exemption or executive order from CARB to be sold in California. However, California prohibits the use of any aftermarket exhaust system that modifies, removes or replaces original equipment catalysts, unless CARB has issued an Executive Order as to such part or system.

Further, Akrapovič parts or exhaust systems used or intended for use on “racing vehicles” (i.e. a competition vehicle used exclusively for competition on closed-course circuits) do not require an exemption or Executive Order from CARB to be sold in California. However, such parts are prohibited from use on California public highways or roads, even if occasionally used “off-road.”

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