



Installation instructions

Akrapovič Exhaust System:

Slip-On

for the

Lamborghini Aventador LP700-4

Lamborghini Aventador LP700-4 Roadster



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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

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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.**



T-handle swivelling 10 mm wrench
Bi-hex 13 mm socket
Bi-hex 16 mm socket
Torx 20
Torx 27
Torx 30
Torx 45
Cutting nippers
Flat screwdriver



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 LAMBORGHINI AVENTADOR LP700-4. THERE MAY BE SOME DIFFERENCES IN INSTALLATION PROCEDURES FOR OTHER AVENTADOR MODELS.



WHEN INSTALLING AKRAPOVIČ AFTERMARKET OPTIONAL LINK 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 VALVES 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. Lift, unscrew and remove the rear spoiler (Figure 1).

! **WARNING:** for correct and safe rear spoiler lifting, please contact your local Lamborghini service!

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



Figure 1

2. Unscrew the marked bolts and remove the engine compartment cowlings (Figure 2, 3).
- ! **CAUTION:** make sure not to injure yourself or damage any part of the vehicle during this process!

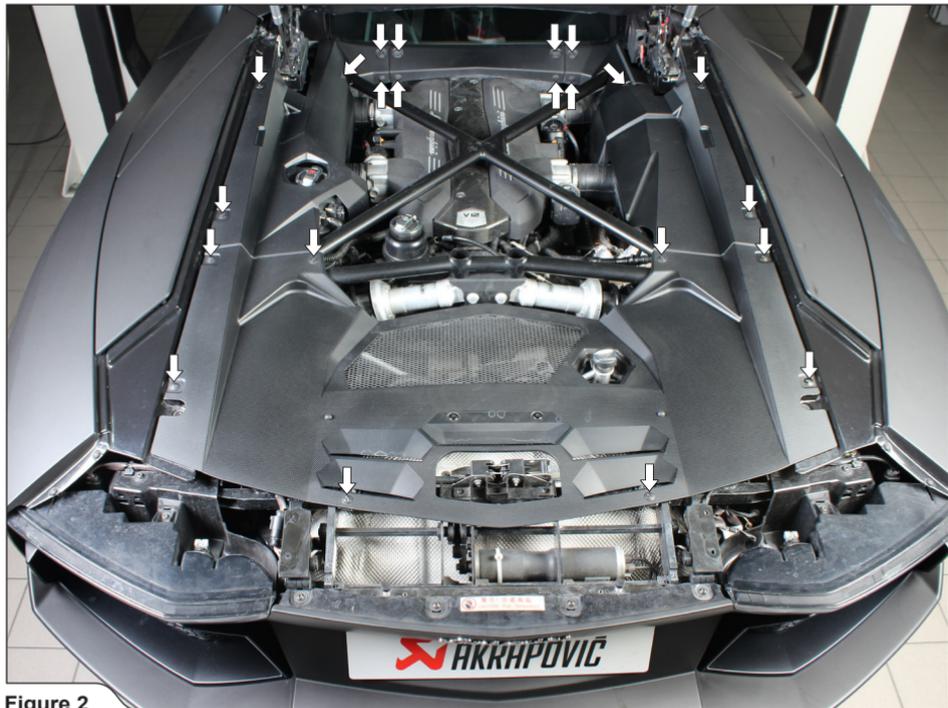


Figure 2

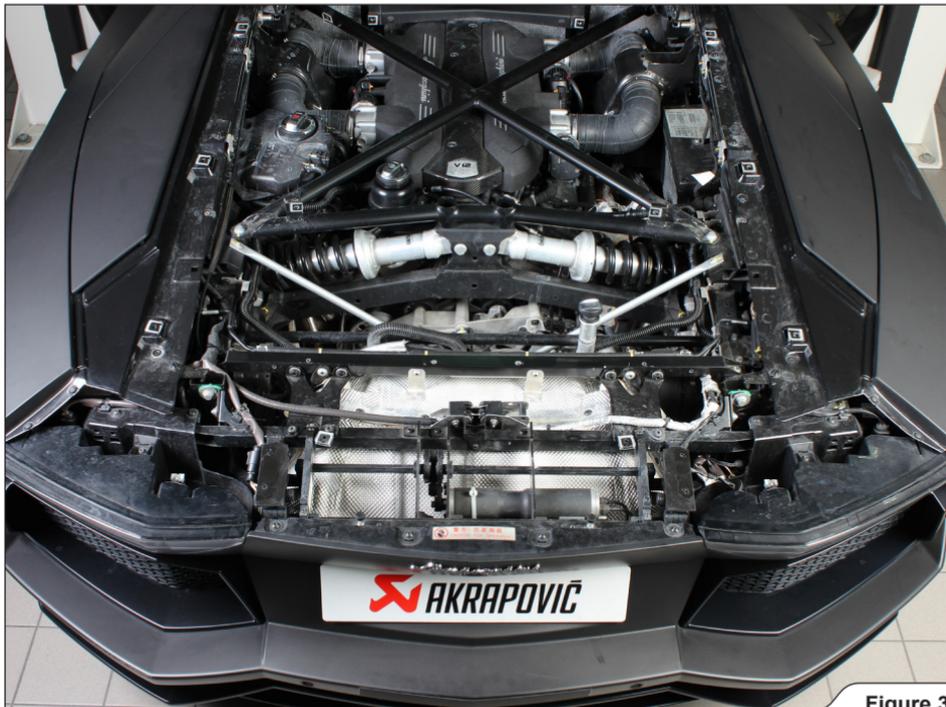


Figure 3

3. Remove both rear wheels, both rear parts of the wheel arch panels and unscrew the marked diffuser bolts (Figure 4, 5, 6).

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

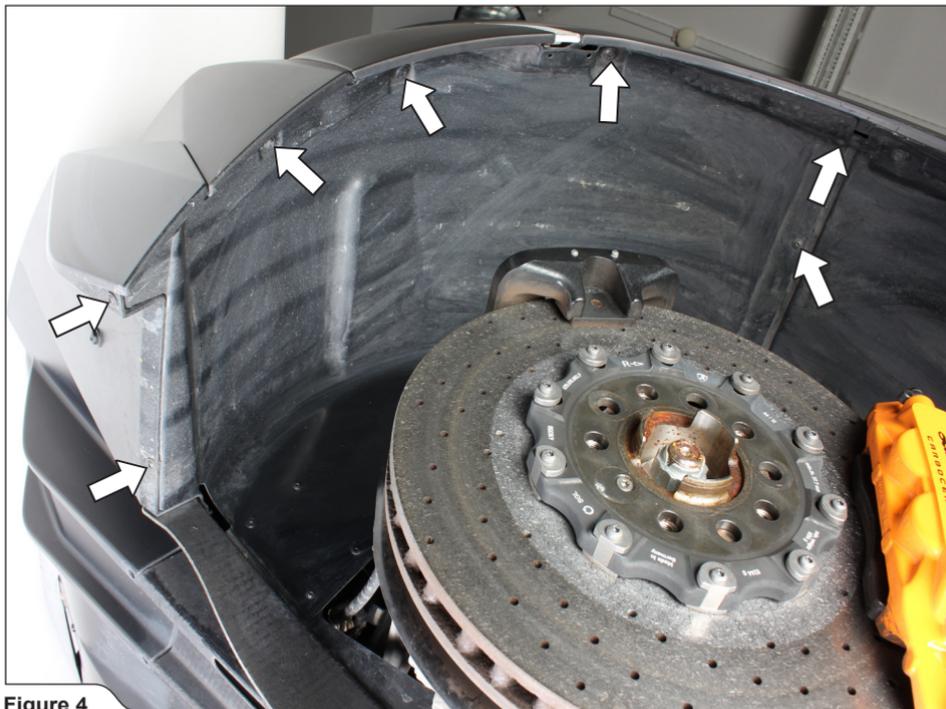


Figure 4



Figure 5



Figure 6

4. Remove both rear radiator grilles by undoing of five plastic pins on each side (encircled red) (Figure 7, 8).

! **CAUTION:** make sure not to damage the plastic pins or any other part of the vehicle during this process!



Figure 7

5. Unscrew the marked bolts on both sides and remove both radiator grilles frameworks off the vehicle (**Figure 8, 9**).

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

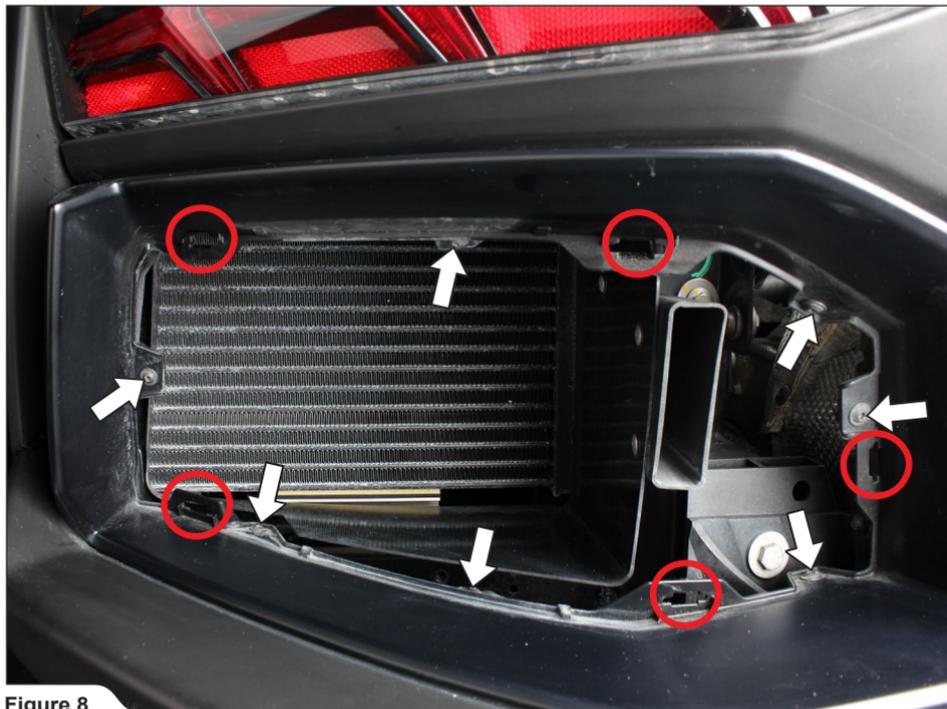


Figure 8



Figure 9

6. Unscrew the marked bolts on both sides, disconnect the rear lighting' and parking assistance connectors and carefully remove both tail lights and rear bumper off the vehicle (Figure 10, 11, 12, 13).

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



Figure 10

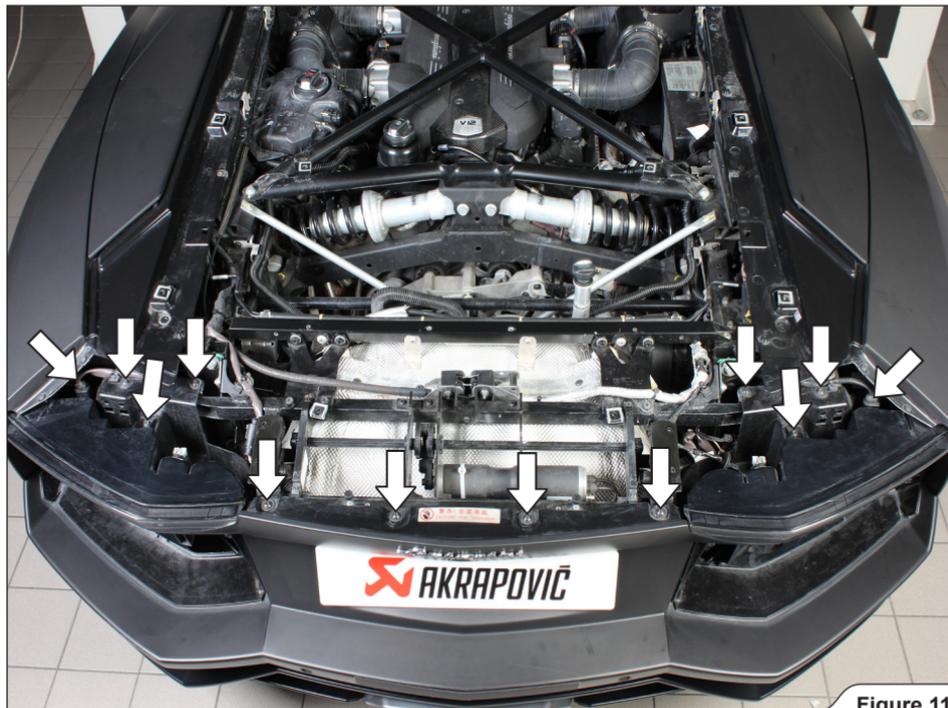


Figure 11



Figure 12

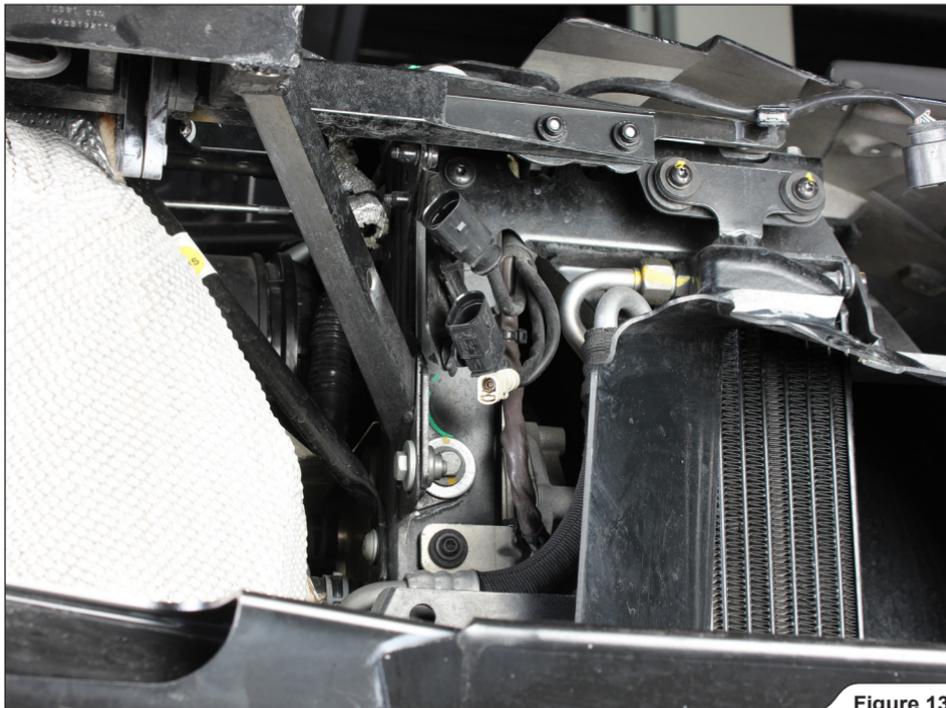


Figure 13

7. Unscrew the marked bolts and carefully remove the impact absorber (Figure 14).

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

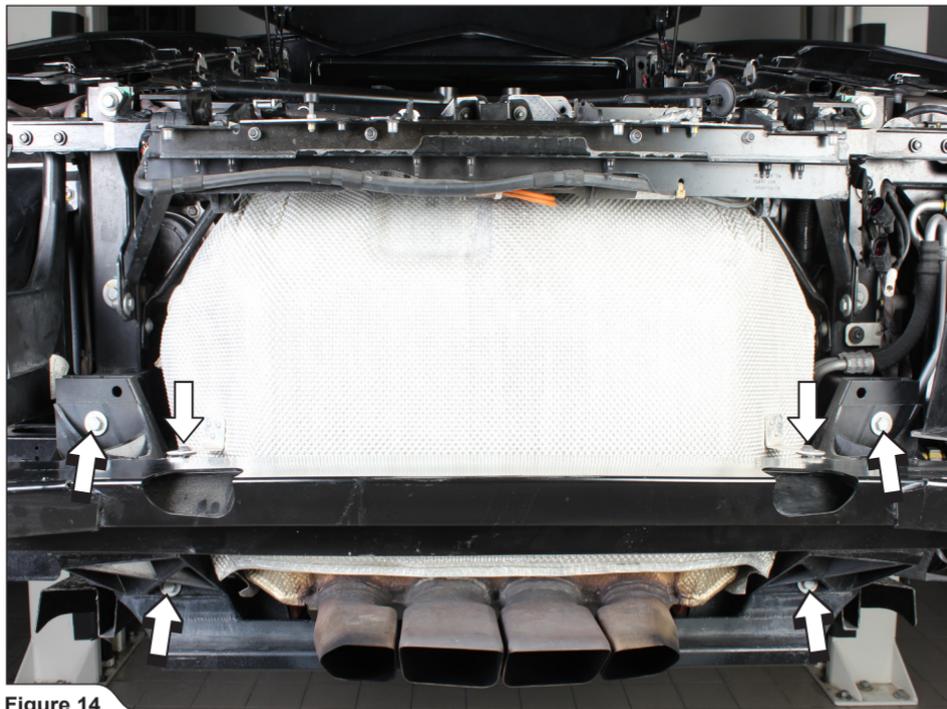


Figure 14

8. Unscrew the engine hood lock, cut the marked zip ties, disconnect the marked connector and move the lock out of the way (**Figure 15**).

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

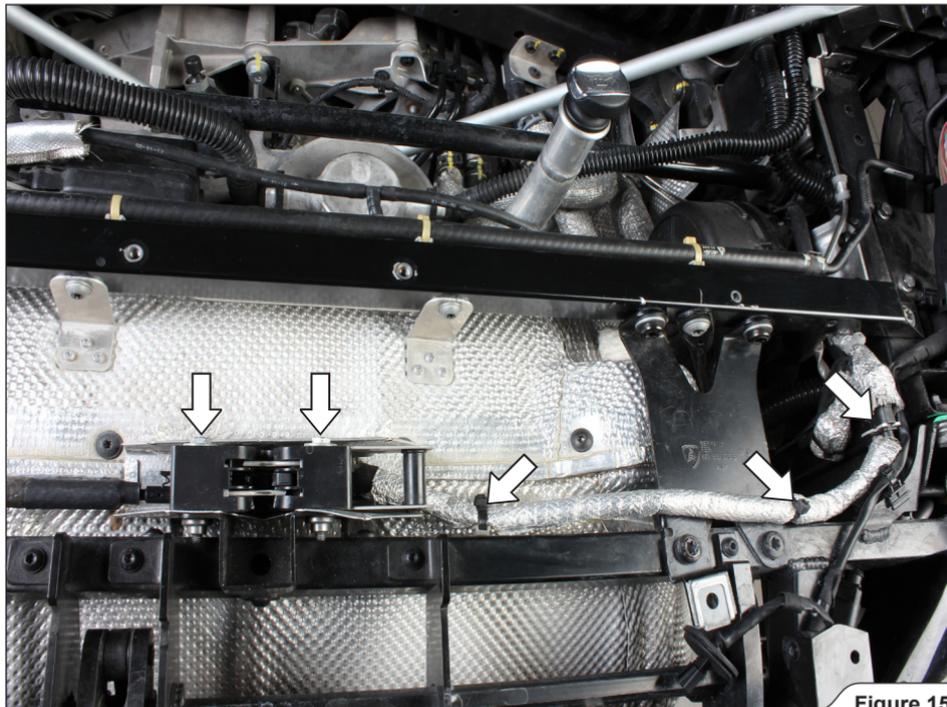


Figure 15

9. Unscrew the marked bolts, move the electrical harnesses out of the way as shown, and remove the rear spoiler's bracket off the vehicle (**Figure 16, 17**).

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

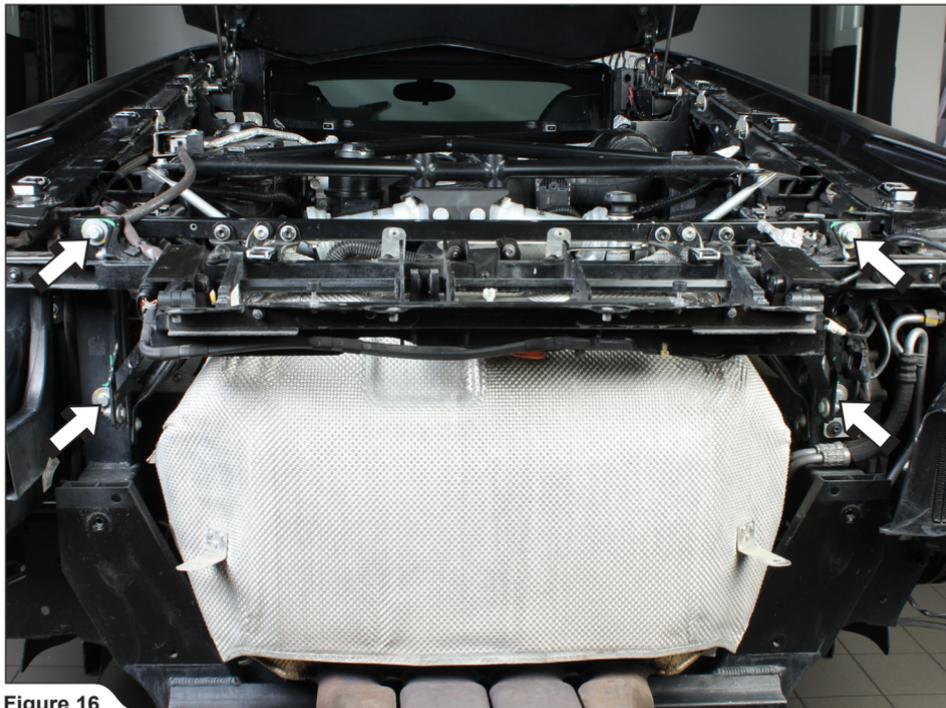


Figure 16

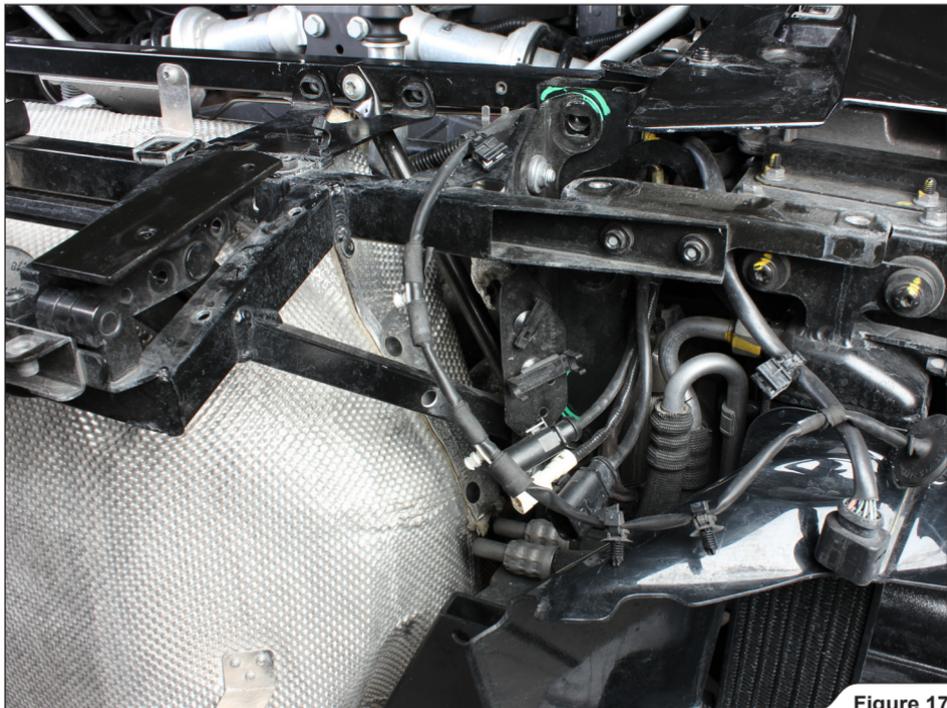


Figure 17

10. Unscrew the marked heat shield bolts (**Figure 18**).

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

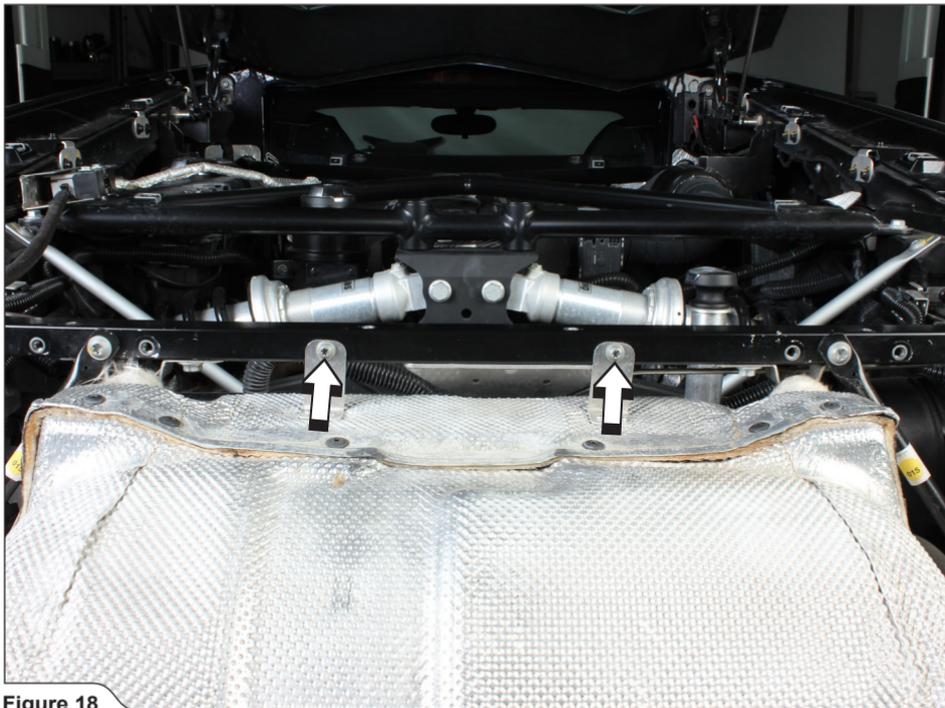


Figure 18

11. Carefully remove the vacuum tubes off both exhaust valves' actuators (**Figure 19**).

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

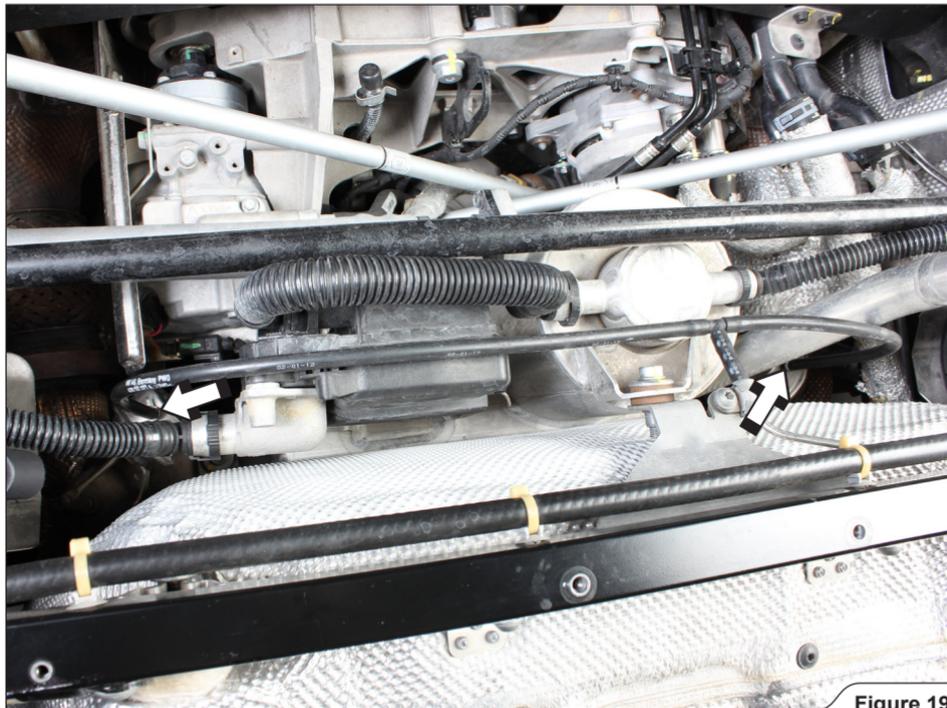


Figure 19

12. Unscrew the marked muffler's upper brackets bolts (Figure 20).

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



Figure 20

13. Unscrew the marked clamps on both sides and remove them off the joints (**Figure 21**).

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

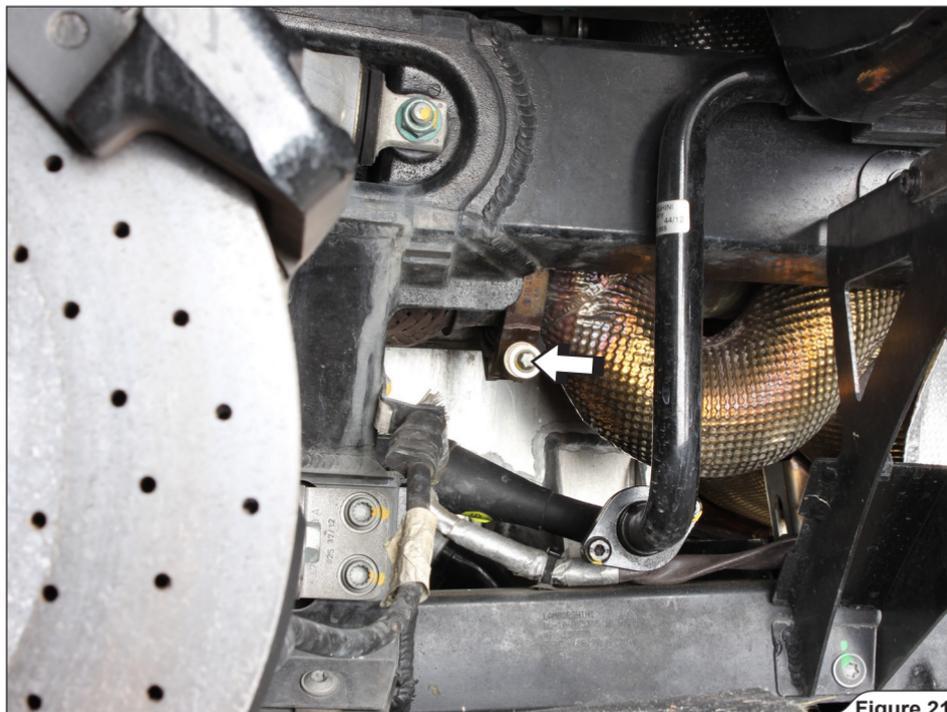


Figure 21

14. Unscrew the marked muffler's lower brackets bolts and carefully remove the muffler off the vehicle (**Figure 22**).

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

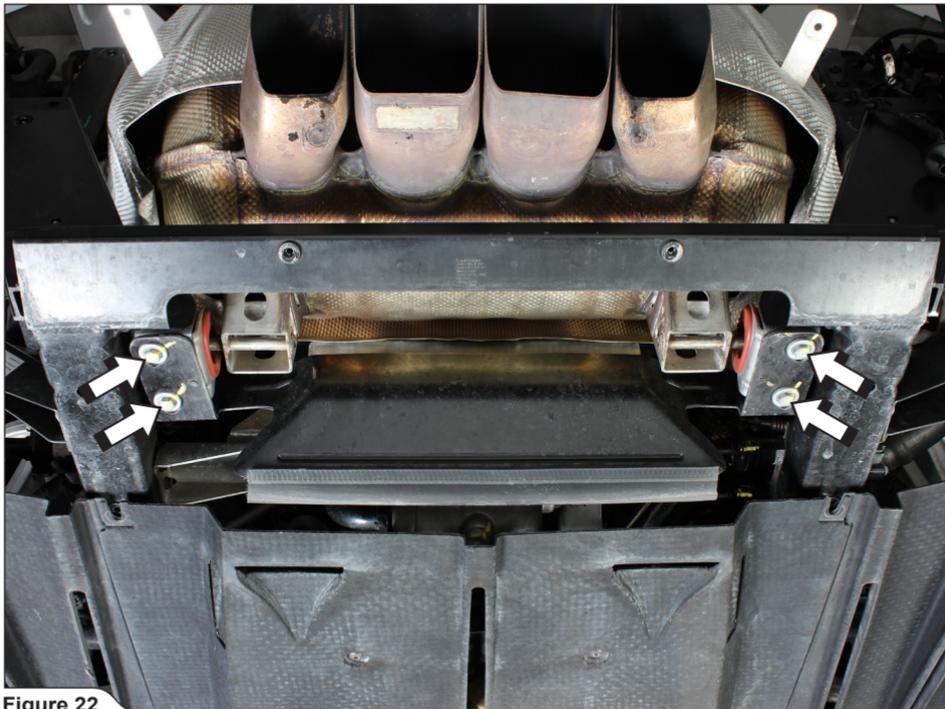


Figure 22

15. Unscrew all heat shield's bolts and carefully remove the heat shield off the muffler (**Figure 23**).

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



Figure 23

16. Carefully remove the rubber brackets off the muffler (**Figure 24**).

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

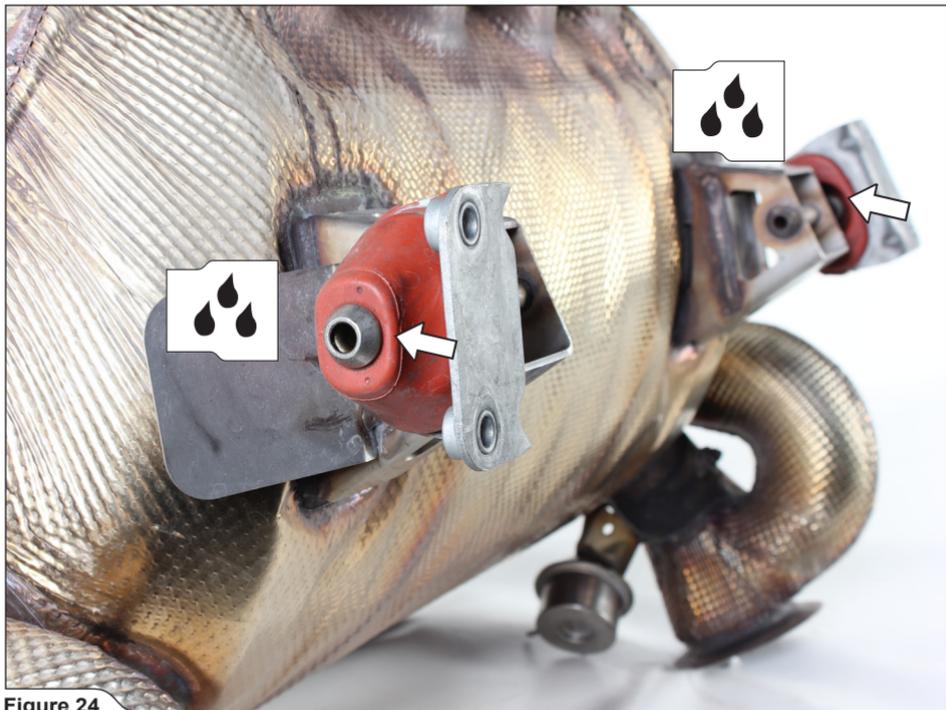


Figure 24

17. Unscrew the marked bolts and remove the tail pipe off the rear bumper (Figure 25).

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

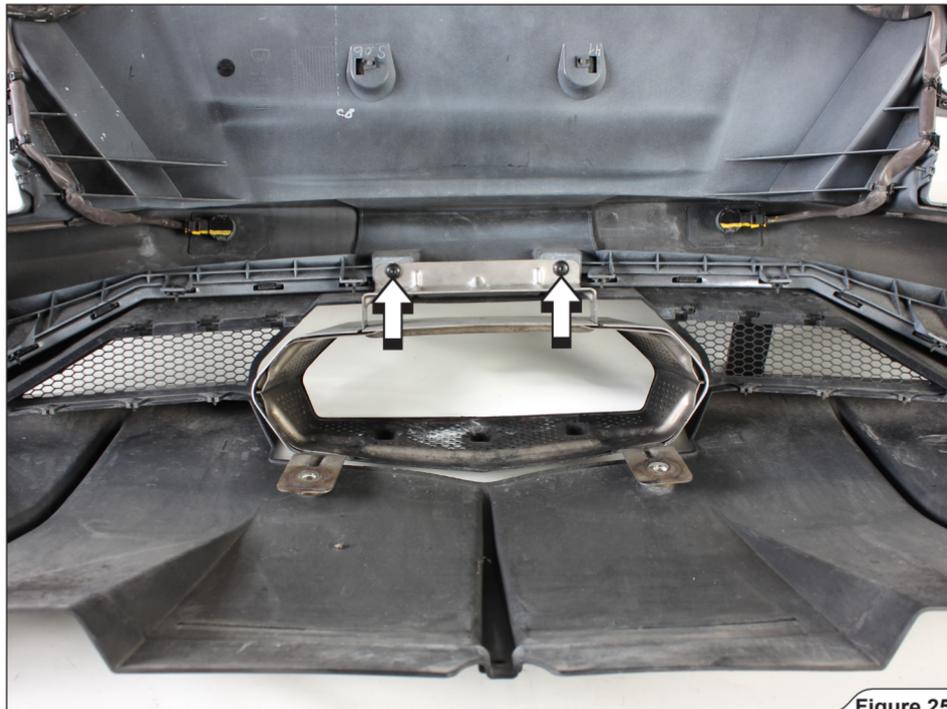


Figure 25

INSTALLATION OF THE AKRAPOVIČ EXHAUST SYSTEM:

1. Insert and tighten the Akrapovič tail pipe onto the rear bumper, using stock bolts (Figure 26).
- !** CAUTION: make sure, not to damage tail pipe, bumper or any part of the vehicle during this process!

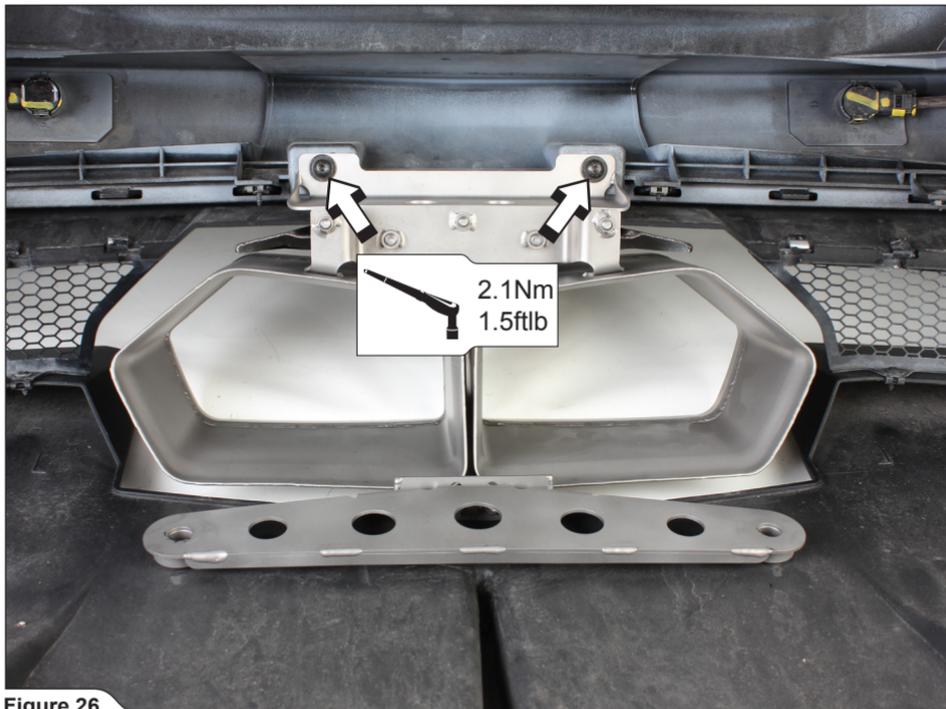


Figure 26

2. Install the stock rubber brackets onto the Akrapovič muffler, as shown (Figure 27).

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

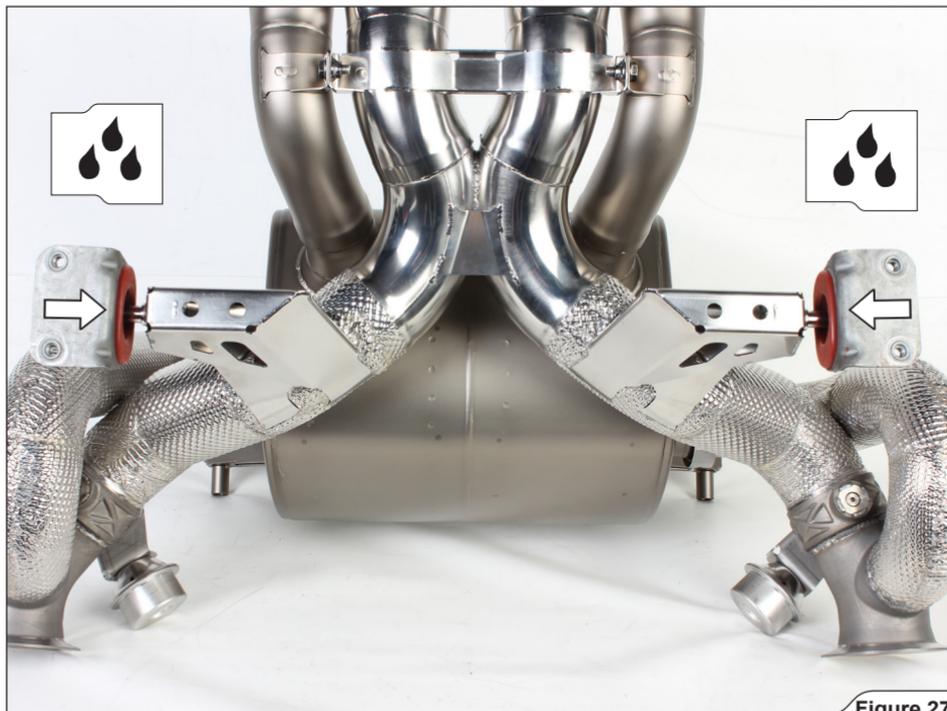


Figure 27

3. Mount the stock muffler's heat shield onto the Akrapovič muffler, using stock bolts (Figure 28).
! CAUTION: make sure, not to damage the heat shield or muffler during this process!

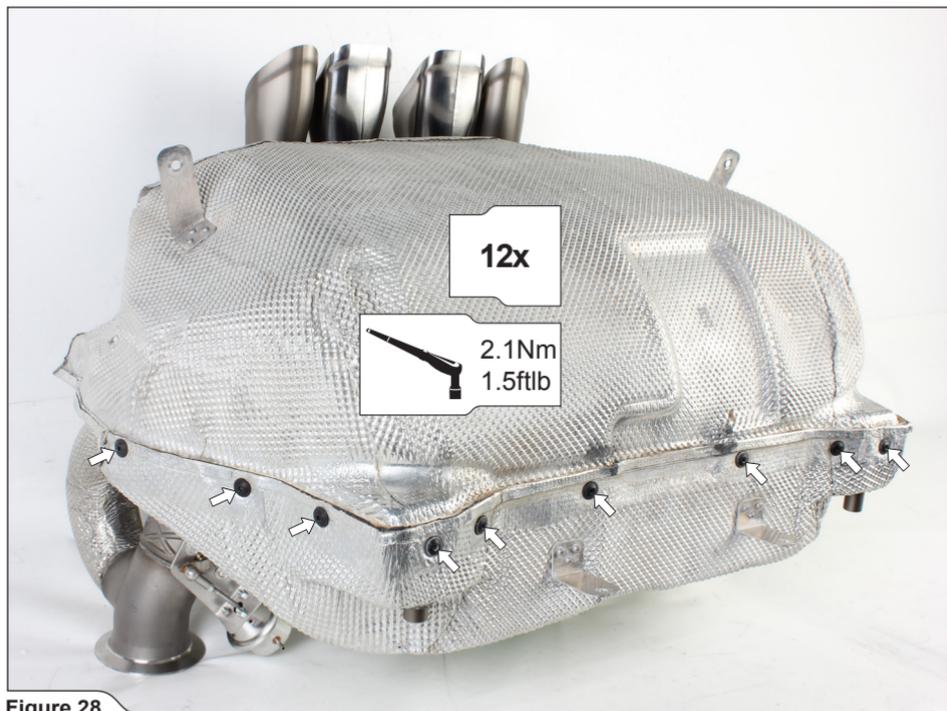


Figure 28

- Carefully install the muffler onto the chassis and tighten the upper muffler's brackets, using stock bolts (Figure 29).

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

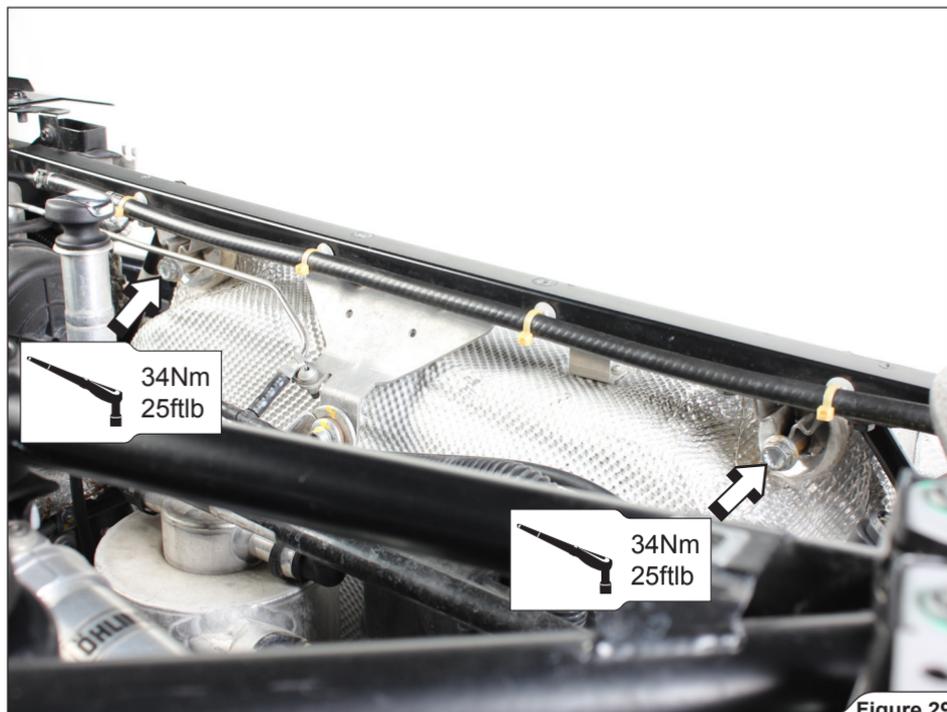


Figure 29

5. Loosen the upper muffler's brackets chassis bolts (**Figure 30**).

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

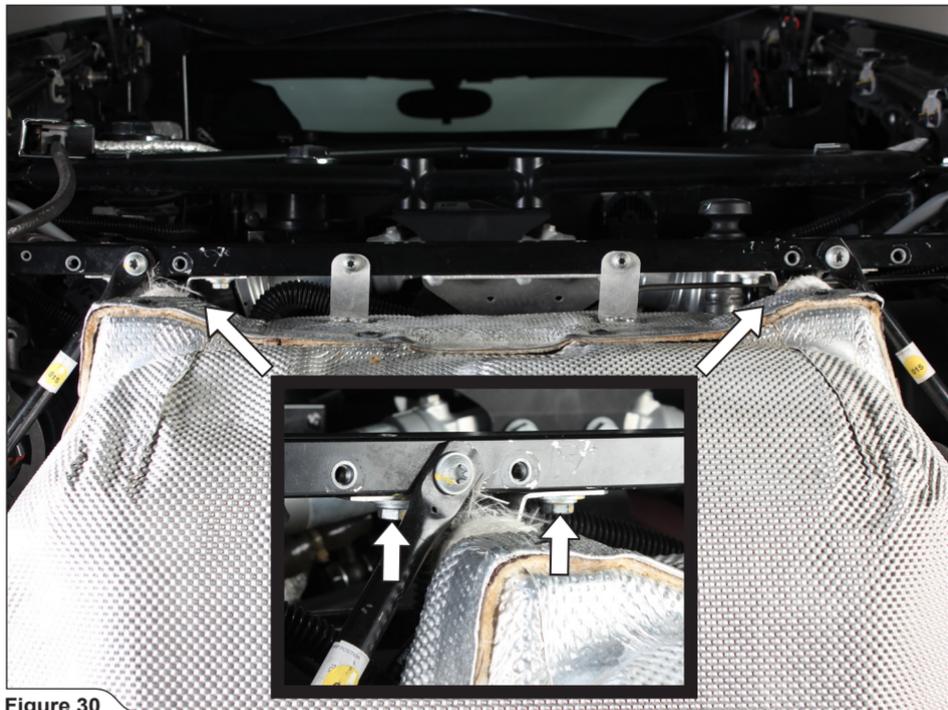


Figure 30

6. Attach the muffler's inlets to the stock link pipes, using stock clamps (**Figure 31**).

✚ **INSTALLATION TIP:** use anti-seize copper paste on clamps' inside rings!

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

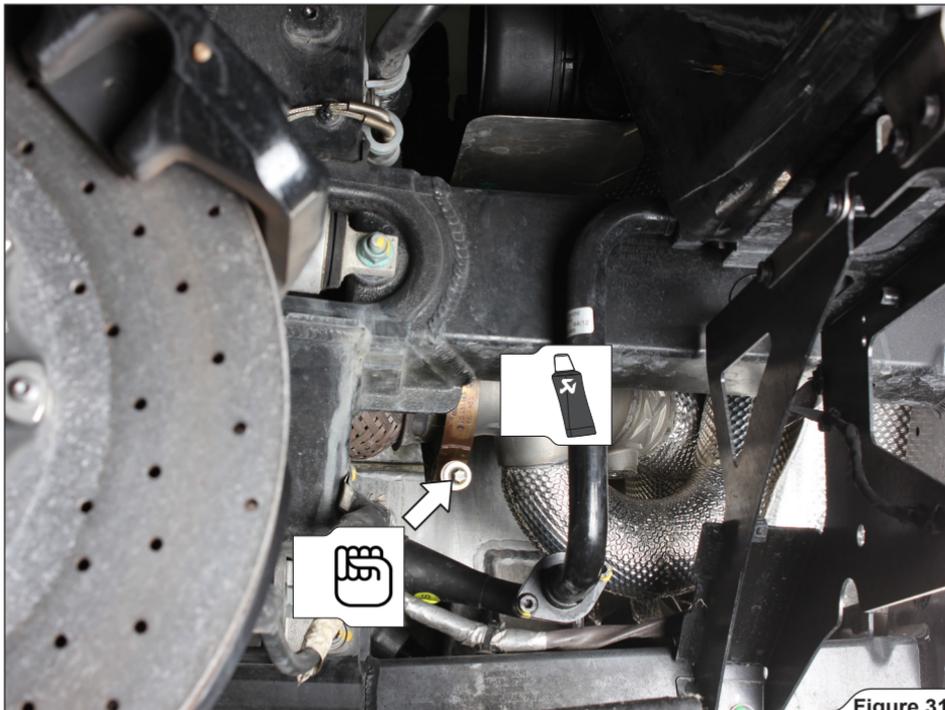


Figure 31

7. Hand tighten the marked muffler's lower brackets bolt onto the chassis, using stock bolts (Figure 32).

! **WARNING:** hand tighten the bolts only; do not fully tighten them yet!

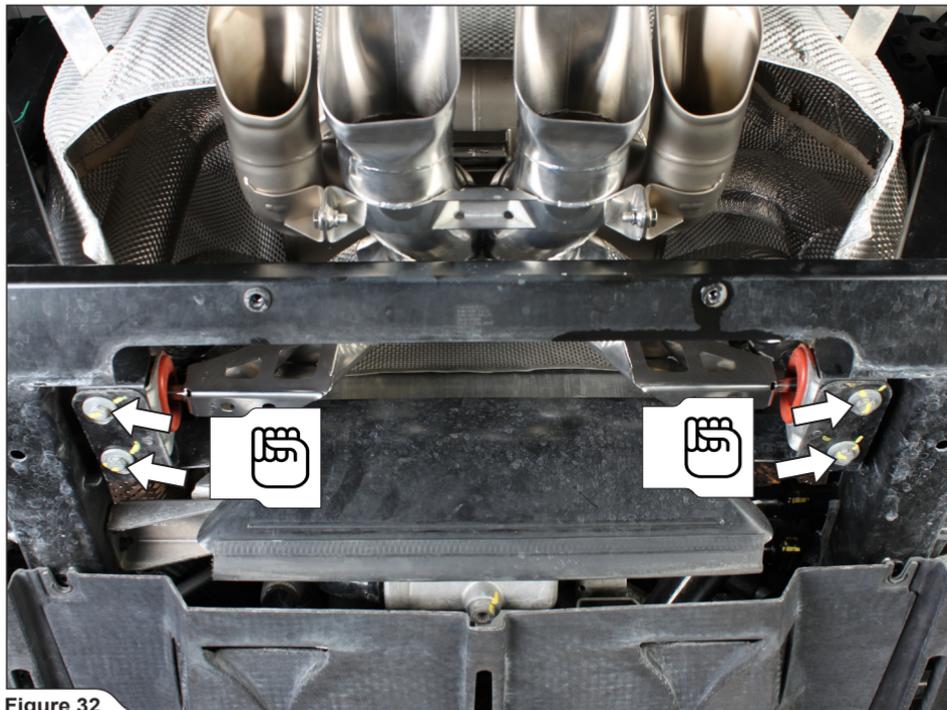


Figure 32

- Align and center the stock link pipes in respect to the muffler's inlets and alternately tighten both clamps to the specified torque (**Figure 33**).

! **WARNING:** make sure, that link pipes and muffler's inlets are correctly jointed, before tightening of the clamps, to avoid the risk of severe vehicle damage!

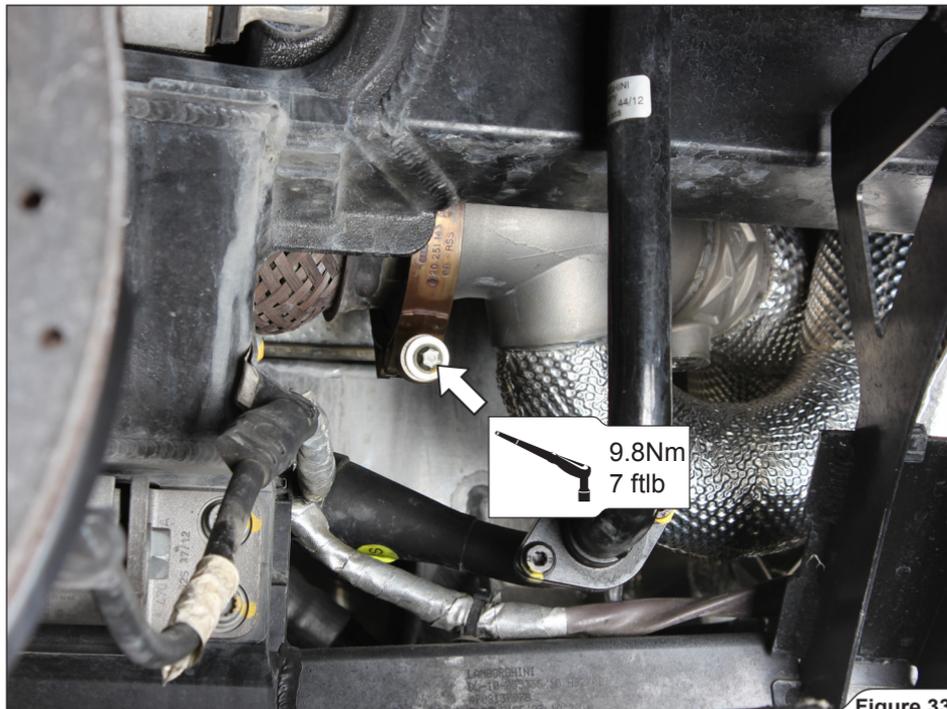


Figure 33

9. Retighten the upper muffler's brackets chassis bolts (Figure 34).

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

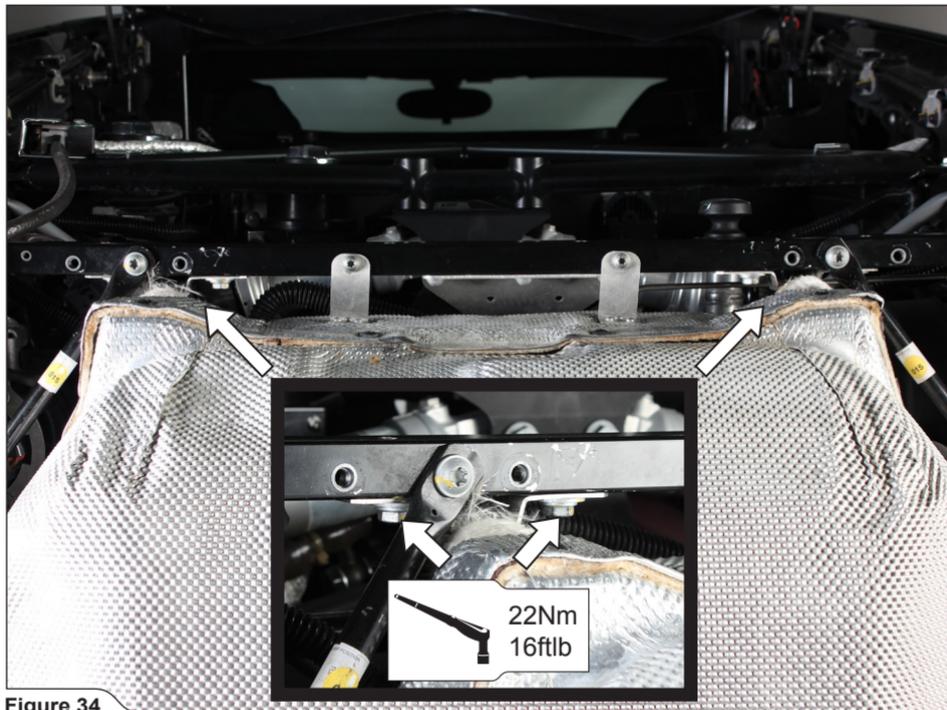


Figure 34

10. Tighten the marked muffler's lower brackets bolts (Figure 35).

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

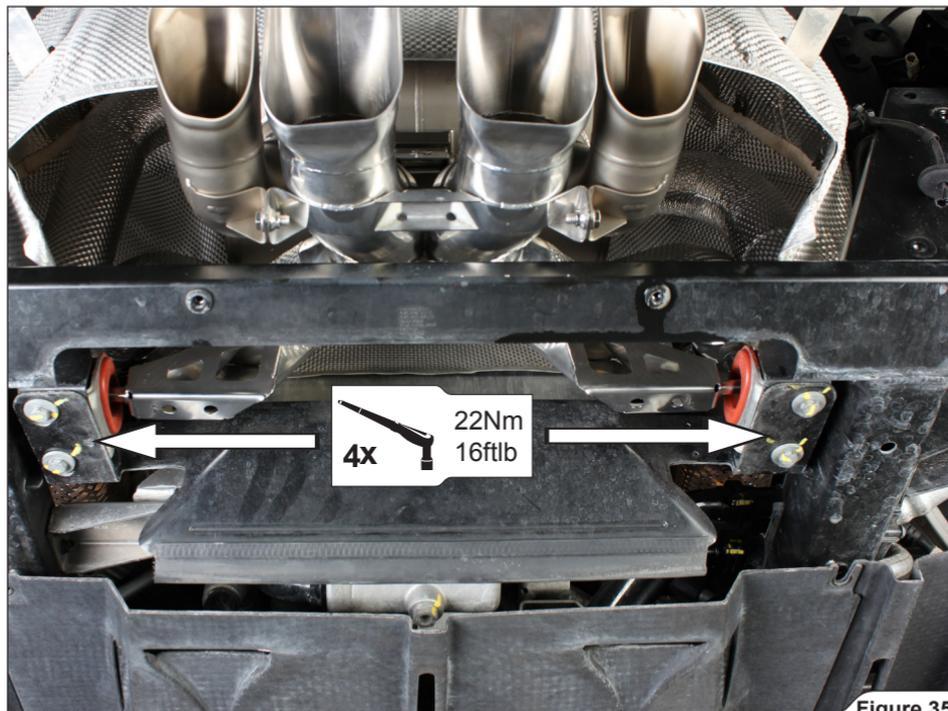


Figure 35

11. Install and secure the stock vacuum tubes onto both exhaust valves' actuators (**Figure 36**).
! **CAUTION:** make sure not to injure yourself or damage any part of the vehicle during this process!

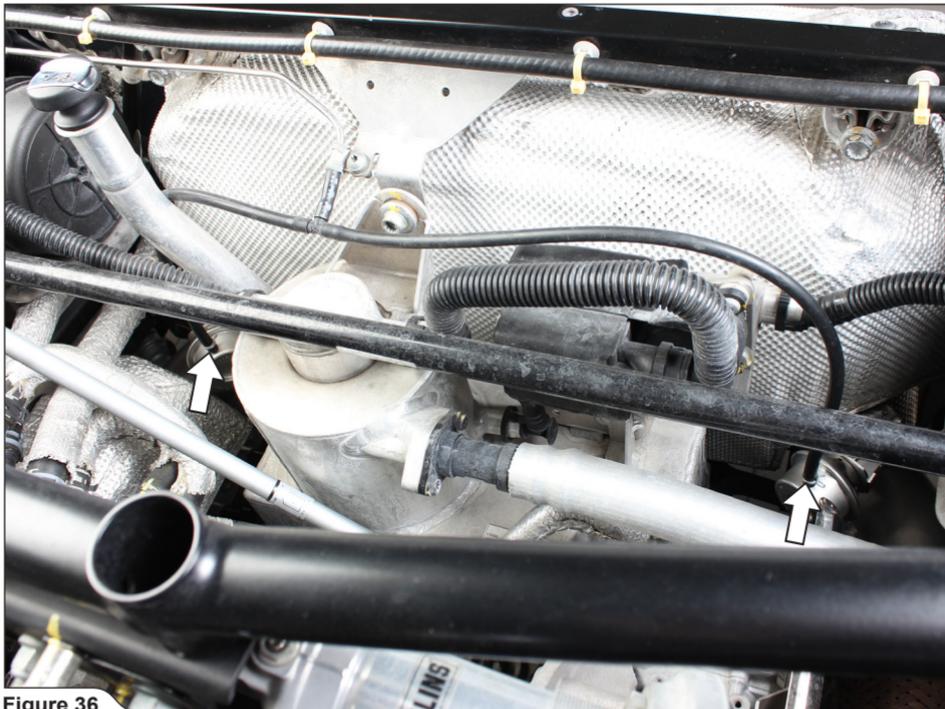


Figure 36

12. **Installation of Wireless Kit:** unscrew and remove the front part of the right side wheel arch panel (Figure 37).

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

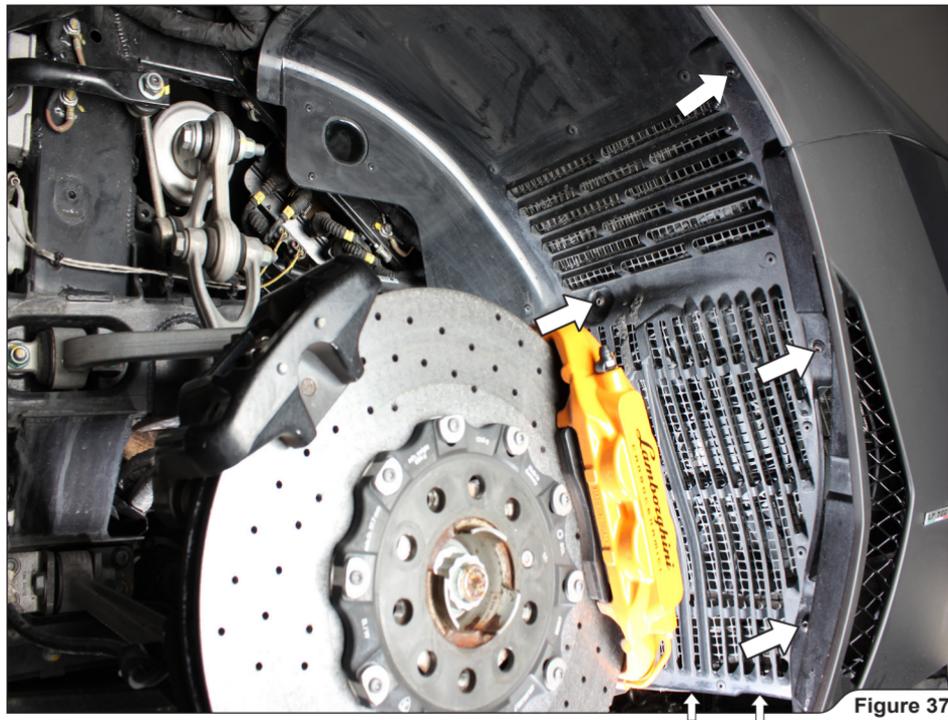


Figure 37

13. **Installation of Wireless Kit:** the Wireless Kit components (**Figure 38**).

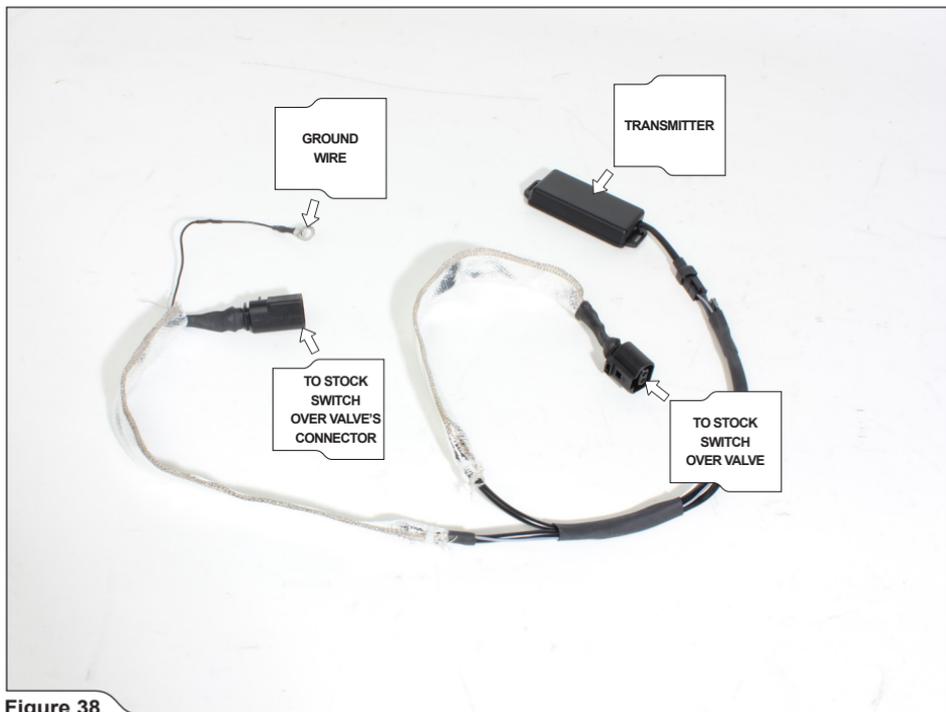


Figure 38

14. **Installation of Wireless Kit:** locate the stock switch over valve under the right wheel arch panel and pull it off the bracket. Disconnect the switch over valve's connector off the valve (**Figure 39**).

! **CAUTION:** make sure, that car key is in OFF position at least for 1 minute, before you unplug the switch over valve connector!

! **WARNING:** do not put the car key in ON position or start the car, before switch over valve connector is plugged again!

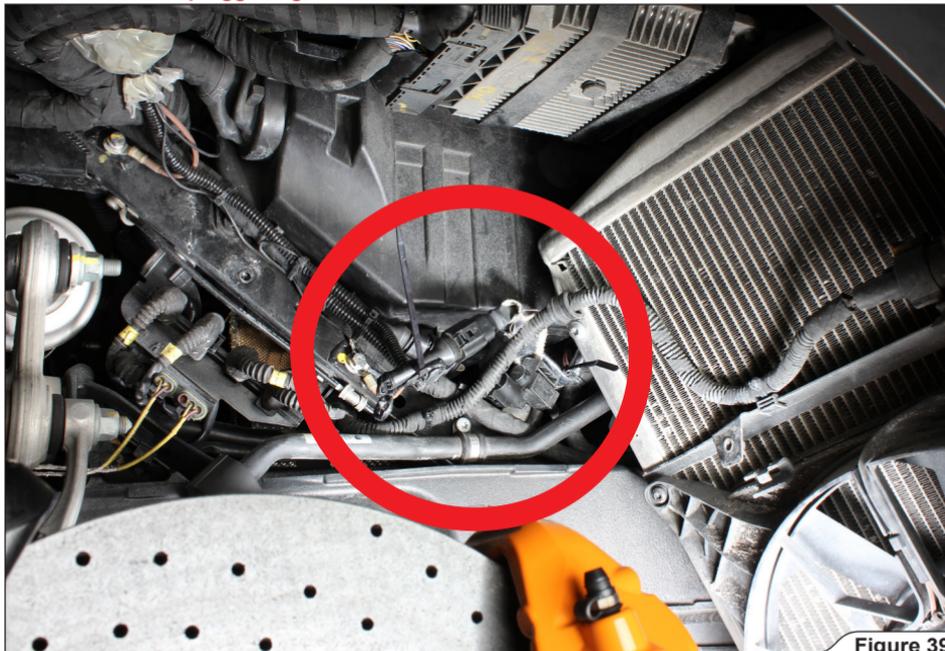


Figure 39

15. **Installation of Wireless Kit:** connect the Akrapovič wiring harness to the switch over valve and switch over valve's connector and tighten the ground wire to the chassis. Secure all wires and connectors using tie wraps from Akrapovič installation kit (**Figure 40**).

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

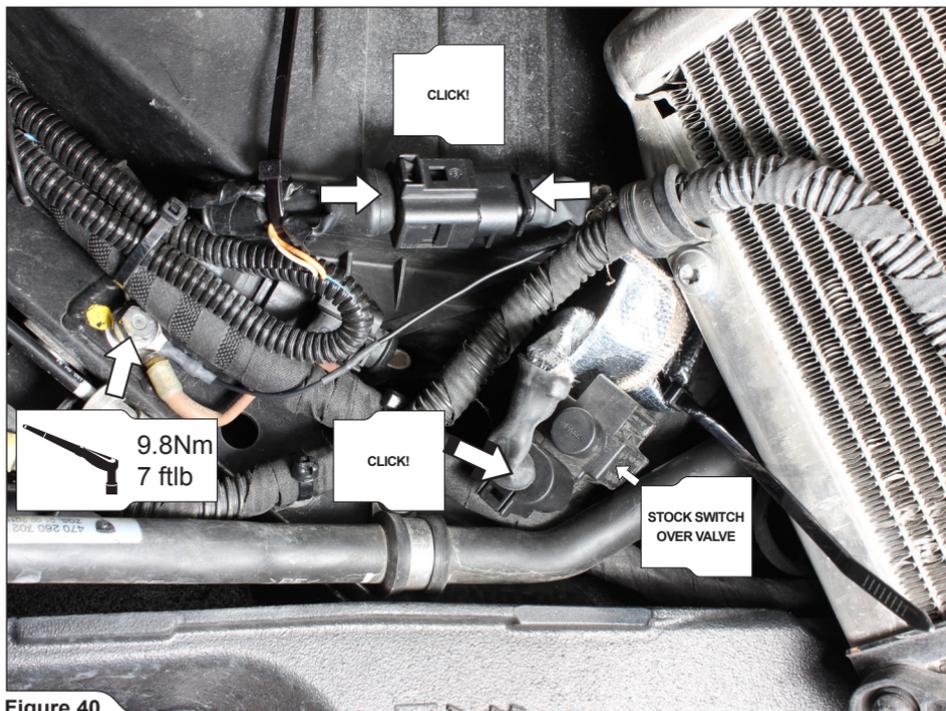


Figure 40

- Installation of Wireless Kit:** direct the Akrapovič wiring harness with transmitter into the engine compartment and attach the transmitter onto the chassis, as shown, using tie wraps from Akrapovič installation kit (**Figure 41, 42**).

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

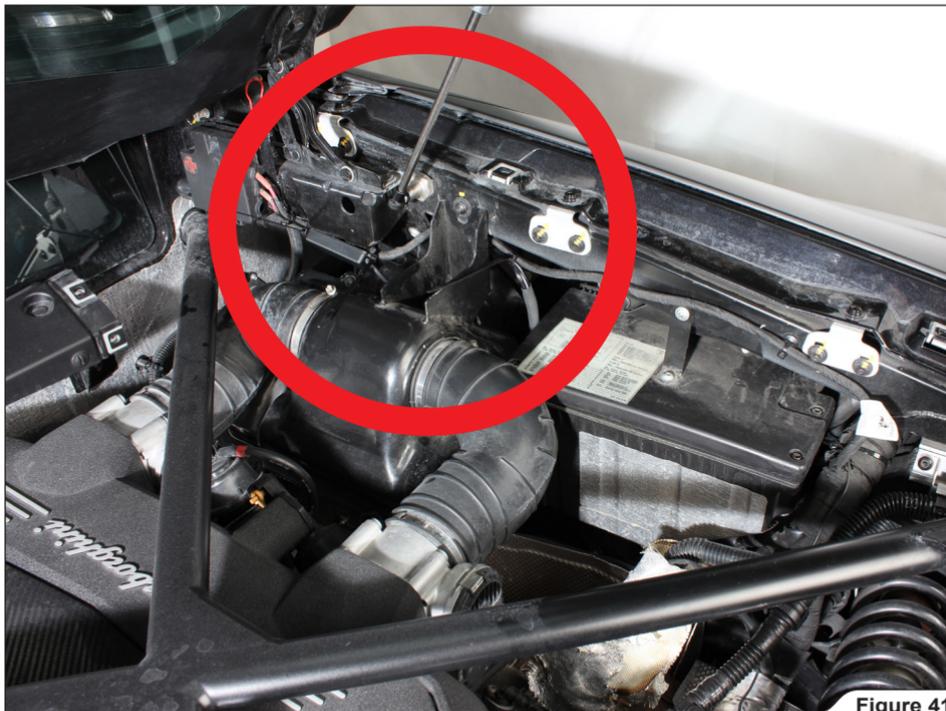


Figure 41

! CAUTION: make sure, that you position and attach the transmitter exactly as shown!

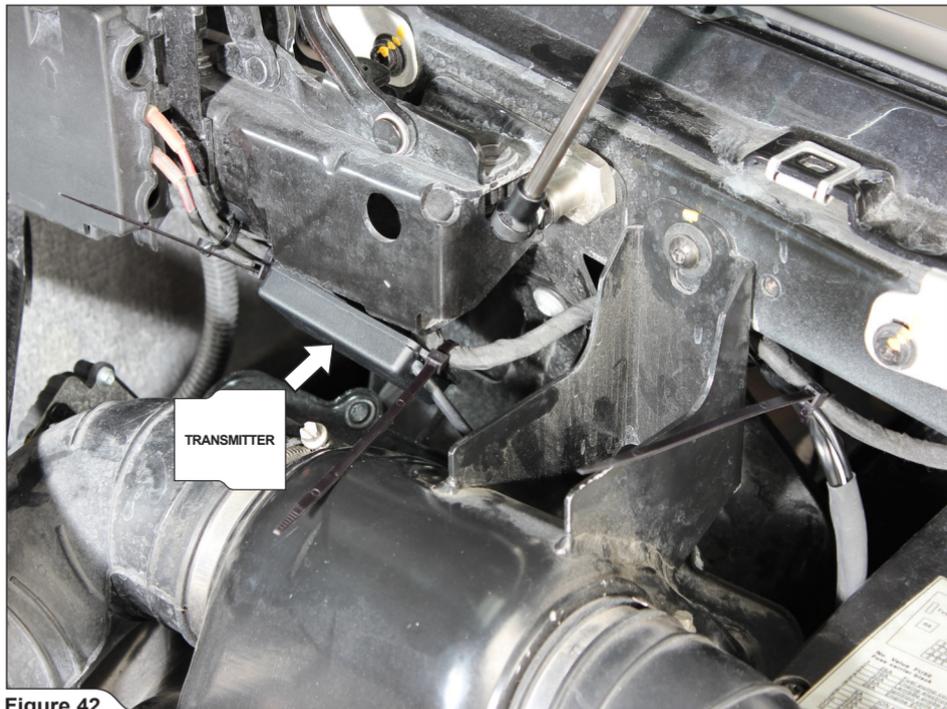


Figure 42

17. Replace all dismantled stock parts in the reverse order from the order in which they were removed. Check vehicle manufacturer manual for tightening torques.

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

ADJUSTMENT OF THE TAIL PIPE:

In case the tail pipe is not in line or center of the muffler's outlet pipes, adjust the tail pipe as follows:

1. Unscrew the marked bolts and remove the carbon fiber heat shield (**Figure 43**).

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



Figure 43

2. Unscrew the marked tail pipe bolts (Figure 44).

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

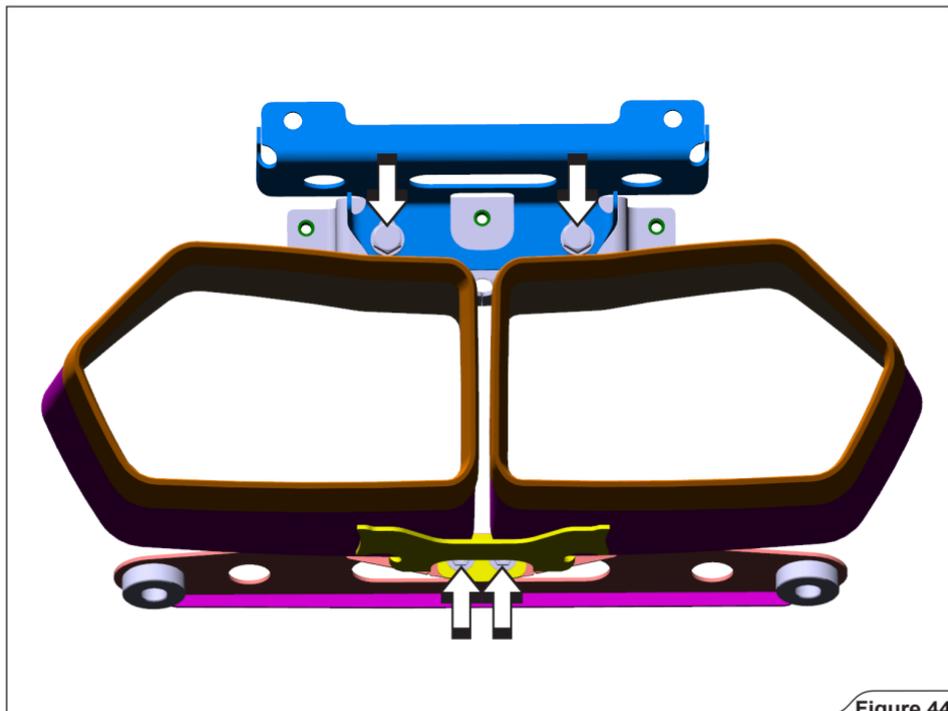


Figure 44

3. Adjust and center the tail pipe in respect to the muffler's outlet pipes (**Figure 45**).

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



Figure 45

4. Tighten the marked tail pipe bolts (Figure 46).

! **WARNING:** use Akrapovič bolt sealant on all bolts' threads!

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

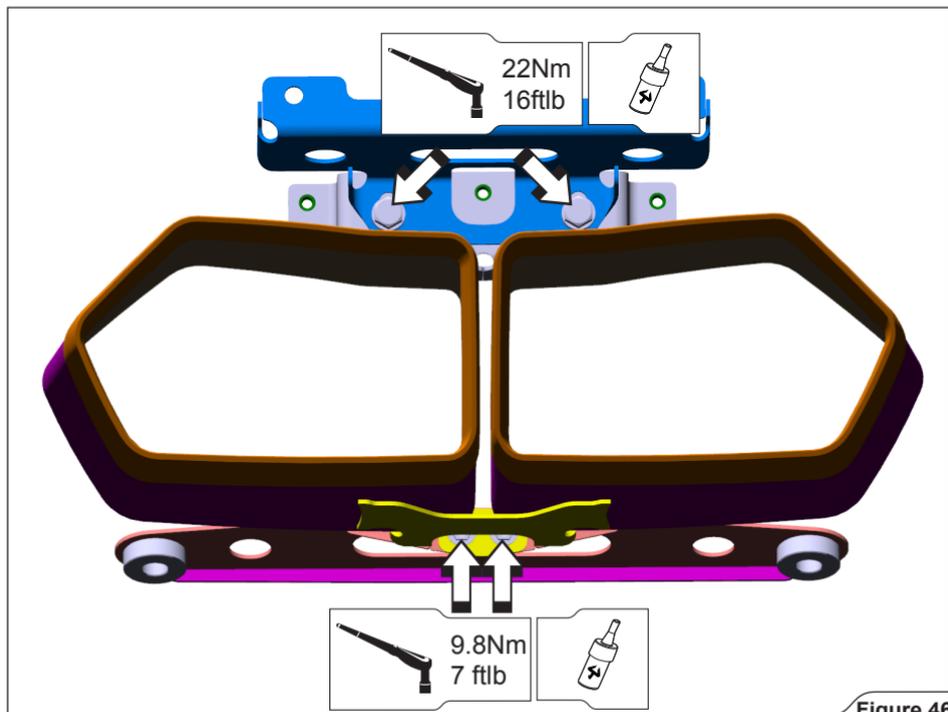


Figure 46

5. Reinstall the carbon fiber heat shield (Figure 47).

! **WARNING:** use Akrapovič bolt sealant on all bolts' threads!

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

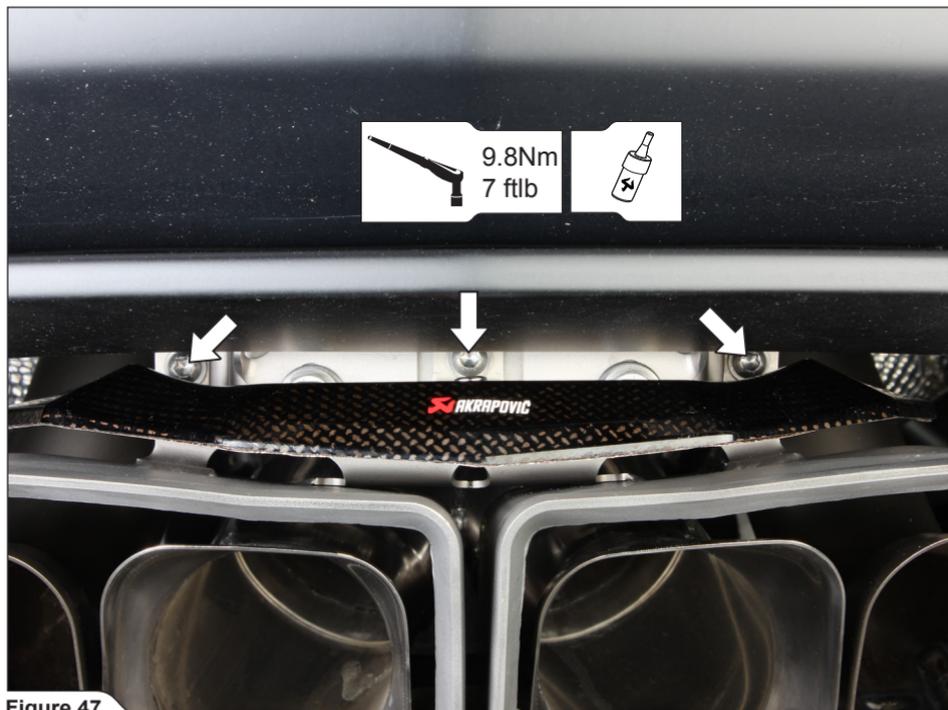


Figure 47

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 cowling 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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