



## Installation instructions

Akrapovič Exhaust Systems:

**Slip-On and Slip-On Race**

for the

**Porsche 911 Carrera/S DFI** (type 997)





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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/>**

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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.**



Combination 16 mm wrench  
T-handle 13 mm wrench  
T-handle 10 mm wrench  
T-handle swiveling 13 mm wrench  
T-handle 6 mm three hexagon key wrench  
T-handle 5 mm three hexagon key wrench  
Torx 25  
Torx 30  
CTX E12



**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 PORSCHE 911 CARRERA. THERE MAY BE SOME DIFFERENCES IN INSTALLATION PROCEDURES FOR OTHER 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:** make sure, that car lifting is safely and correctly done or you risk vehicle damage, injury or even death!

1. For Slip-On and Slip-On Race: unscrew and remove stock tail pipes on both sides of the vehicle (Figure 1).



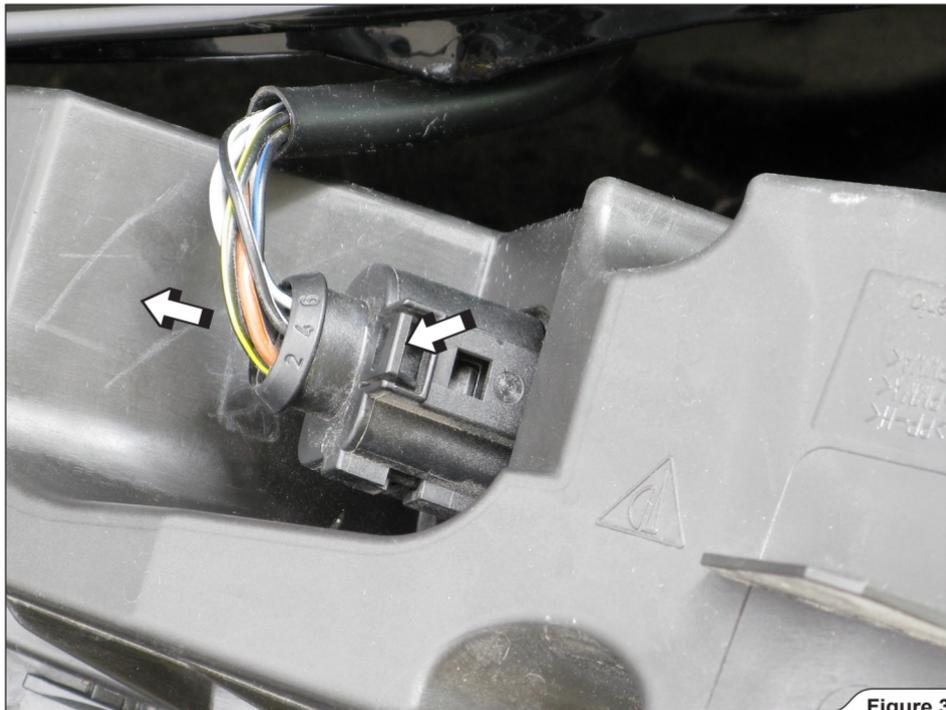
Figure 1

2. For Slip-On and Slip-On Race: unscrew tail light bolts on both sides of the vehicle (Figure 2).



Figure 2

3. **For Slip-On and Slip-On Race:** disconnect the connectors and remove the tail lights off the vehicle (**Figure 3**).



**Figure 3**

4. For Slip-On and Slip-On Race: unscrew the marked bolts on both sides of the vehicle (Figure 4, 5, 6, 7).

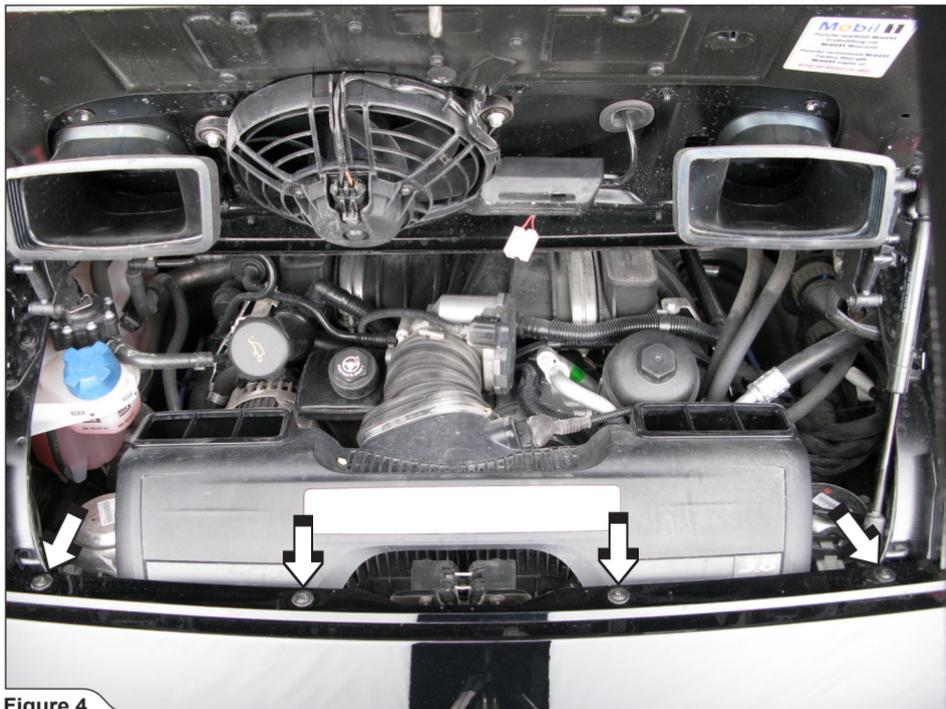


Figure 4



Figure 5



Figure 6



Figure 7

5. **For Slip-On and Slip-On Race:** disconnect the number plates' light connector and remove the rear bumper (Figure 8).

! **WARNING:** be careful not to damage the electrical lead, bumper or any other part of the vehicle during removal!

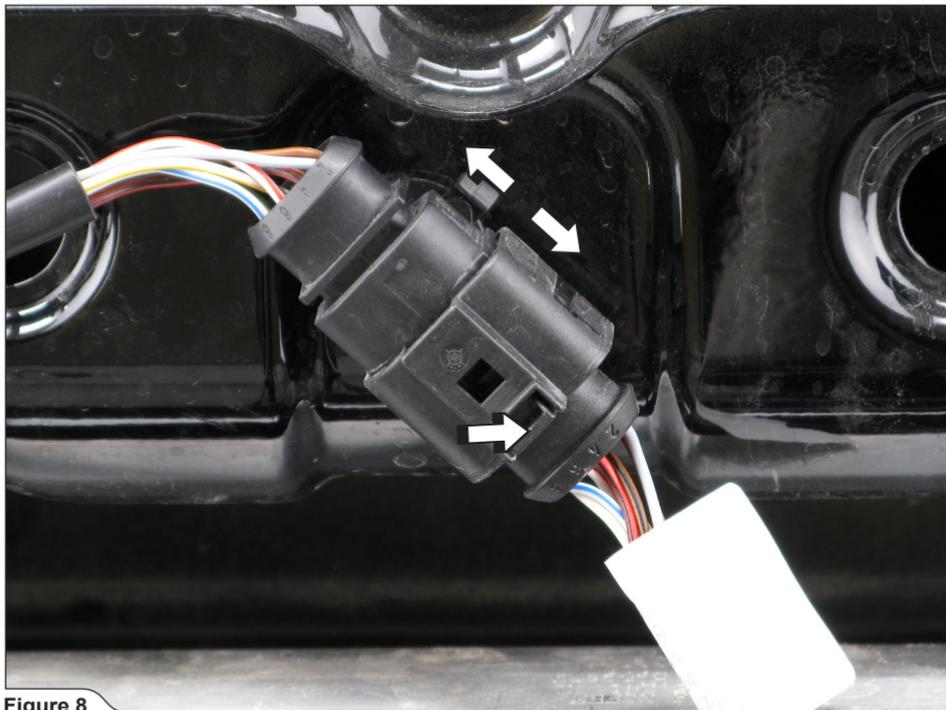


Figure 8

6. **For Slip-On and Slip-On Race:** unscrew the marked bolts and nuts on both sides of the vehicle and remove exhaust heat shields (**Figure 9, 10, 11**).



Figure 9



Figure 10

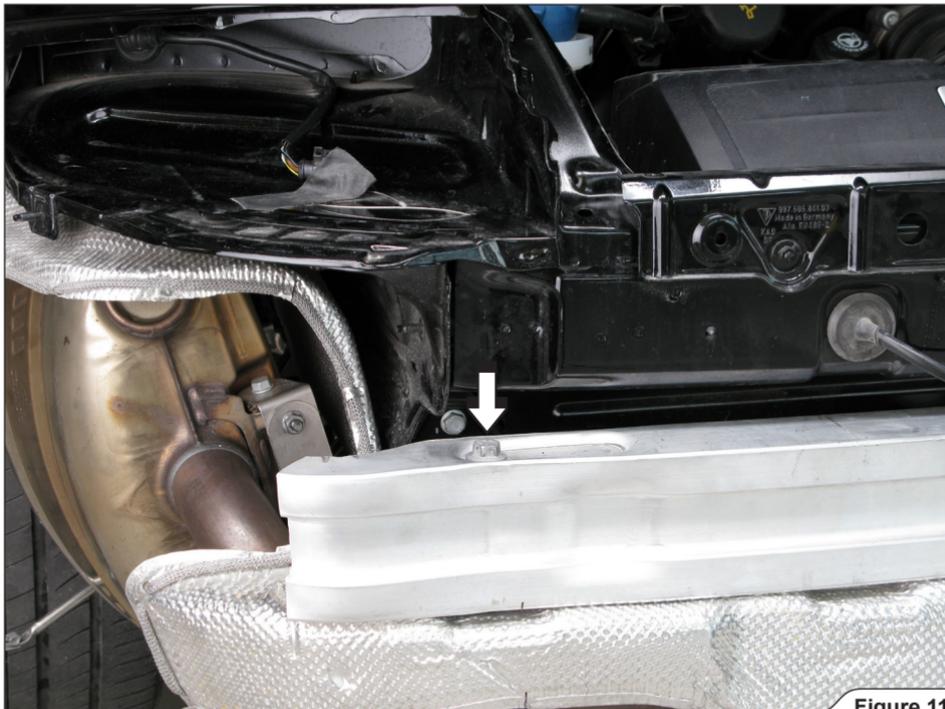
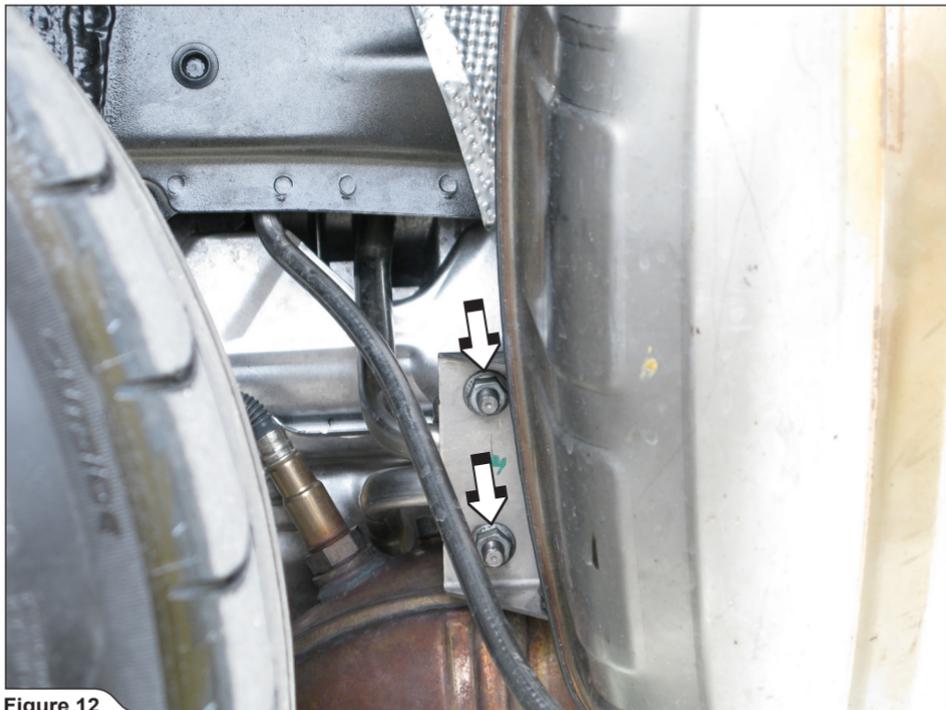


Figure 11

7. **For Slip-On and Slip-On Race:** unscrew the marked nuts of the side mufflers brackets, flanges and clamps and remove both side mufflers (**Figure 12, 13, 14**).



**Figure 12**

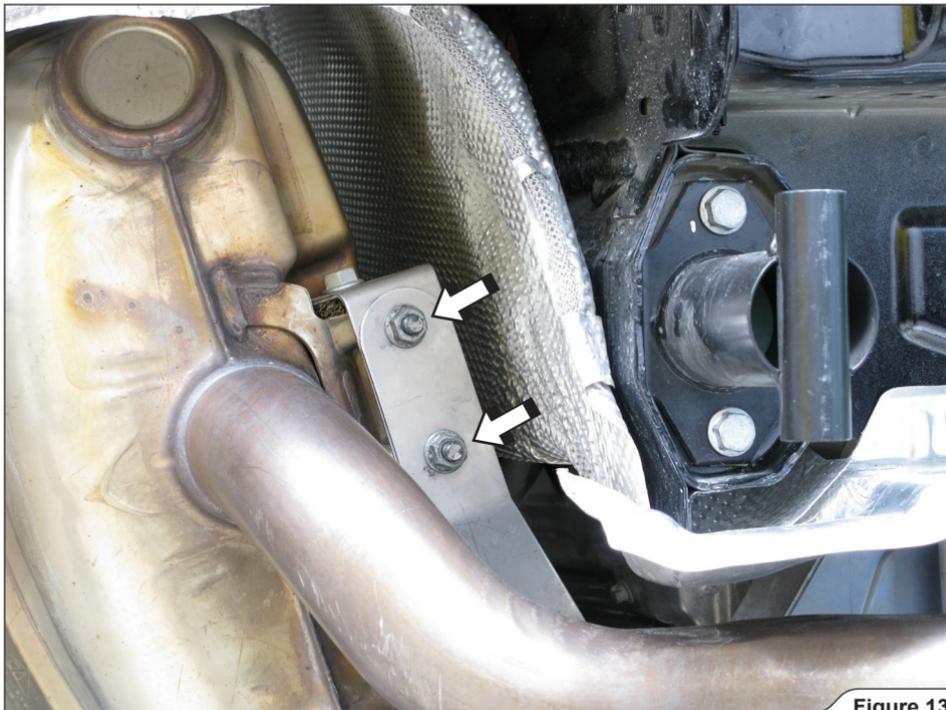


Figure 13



Figure 14

8. **For Slip-On and Slip-On Race:** unscrew the marked nuts and remove the side mufflers' brackets off the vehicle (**Figure 15**).

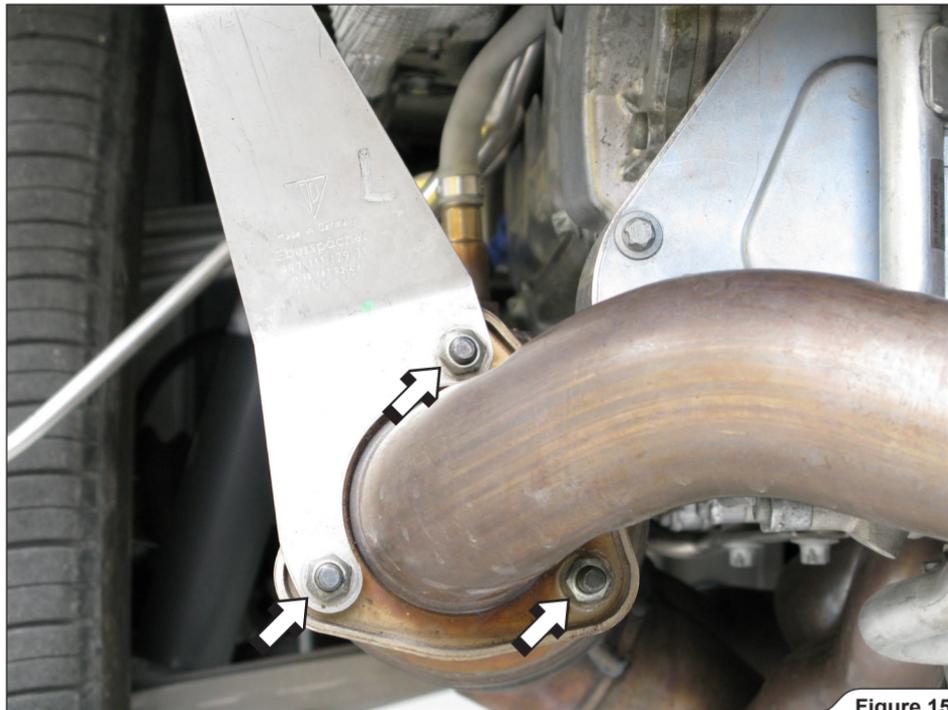


Figure 15

9. **For Slip-On Race only:** unscrew the marked mufflers clamps and remove central muffler (Figure 16).

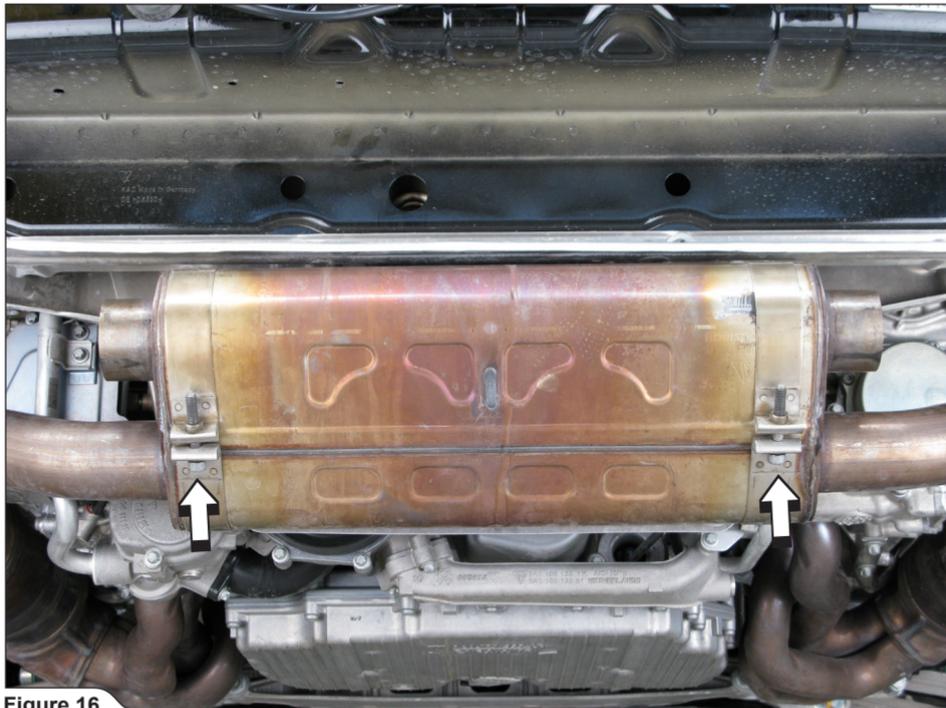


Figure 16

## **INSTALLATION OF THE AKRAPOVIČ EXHAUST SYSTEMS:**

1. **For Slip-on Race only:** attach the Akrapovič X pipe using additional metal clamps and hand tighten the two stock nuts (**Figure 17**). Do not fully tighten the nuts yet!  
**!** **CAUTION:** use new exhaust gaskets in Akrapovič X pipe - stock headers joint!  
**!** **WARNING:** use anti-seize copper paste on metal clamp bolt threads and nut threads!

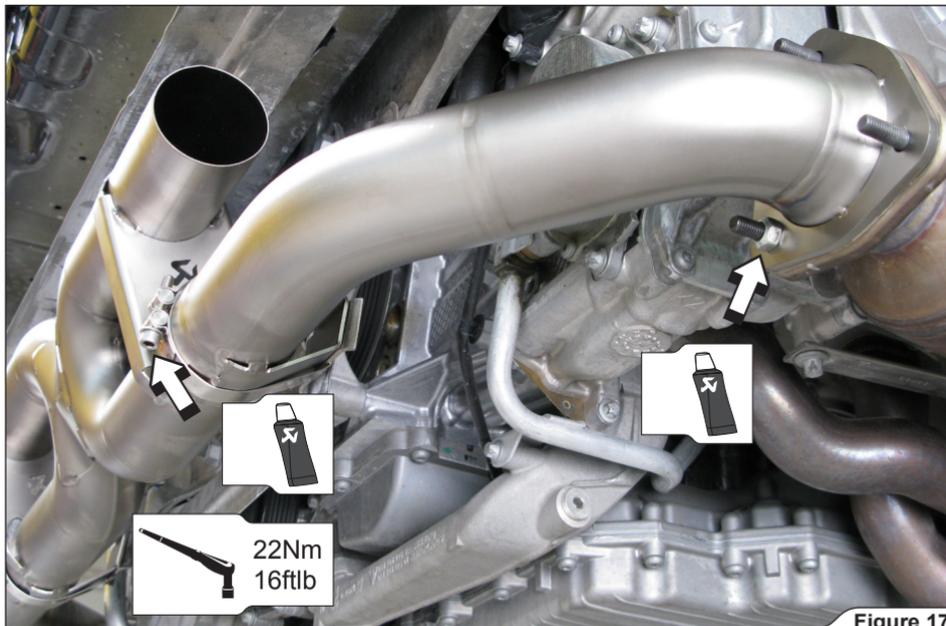


Figure 17

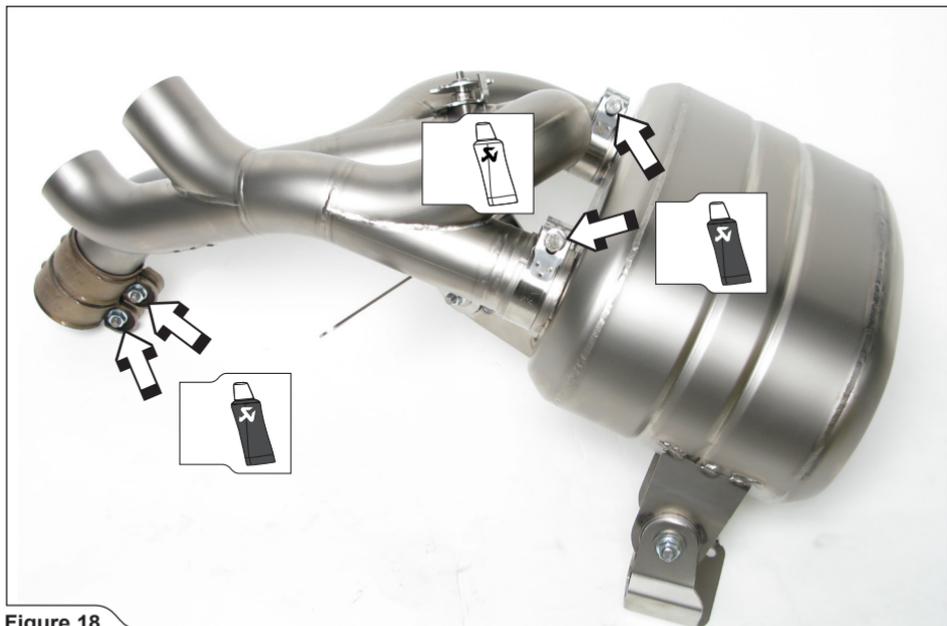
2. **For Slip-On and Slip-On Race:** assemble the link pipes and side muffler, install the Akrapovič metal clamps and stock clamp as shown (**Figure 18**). Perform the process on both side mufflers.

**!** **WARNING:** make sure, that link pipes seat all the way into the side mufflers – use rubber mallet if necessary to tap the connections into place!

**!** **WARNING:** use anti-seize copper paste on all metal clamp bolt and nut threads!

**!** **WARNING:** hand tighten the clamp bolts!

**!** **INSTALLATION TIP:** in case of Titanium option, coat the interior of the side mufflers inlet and outlet bushes with ceramic grease (white tube).



**Figure 18**

3. **For Slip-On and Slip-On Race:** hang the both side mufflers onto stock muffler brackets and simultaneously assemble the link pipes onto the Akrapovič X pipe (Slip-On Race) or stock central muffler (Slip-On), as shown (Figure 19, 20, 21, 22).

- ! **WARNING:** first, only hand tighten all nuts and bolts!
- ! **WARNING:** use anti-seize copper paste on metal clamp bolt threads and nut threads!
- ! **WARNING:** make sure that link pipes are correctly joint with X pipe or central muffler - use rubber mallet, if necessary, to tap the connections into place, than tighten all nuts and bolts!

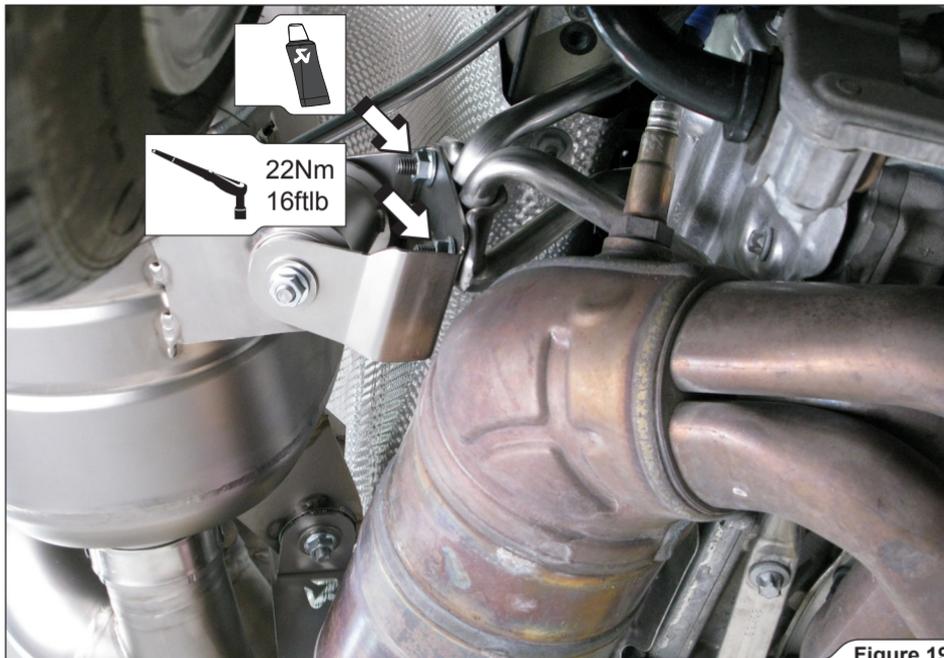


Figure 19

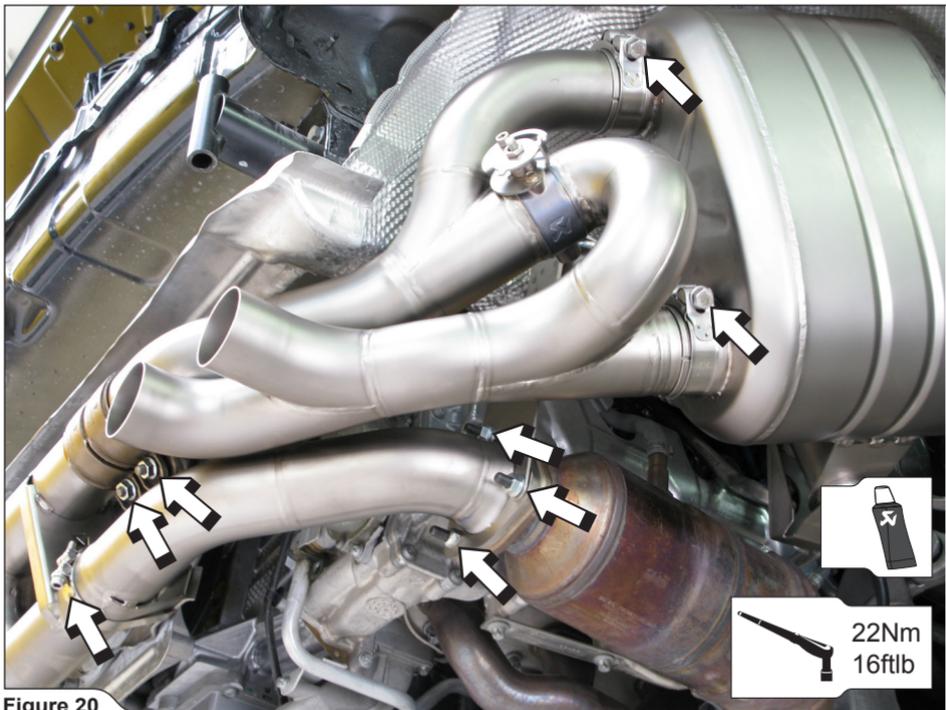
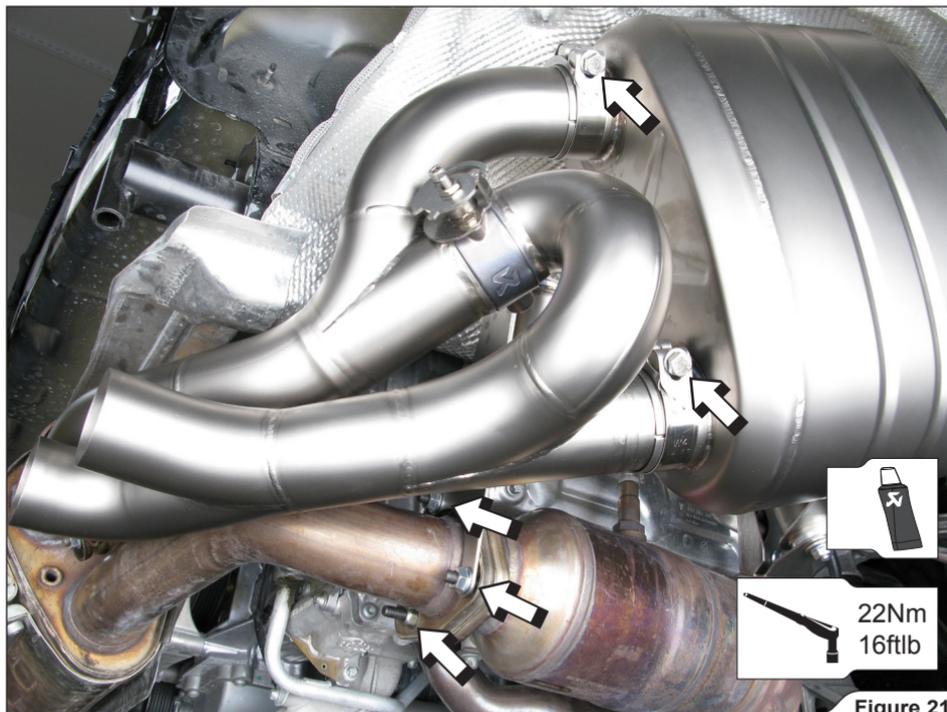


Figure 20

**!** For Slip-On only: use additional distance washers under the side mufflers brackets!



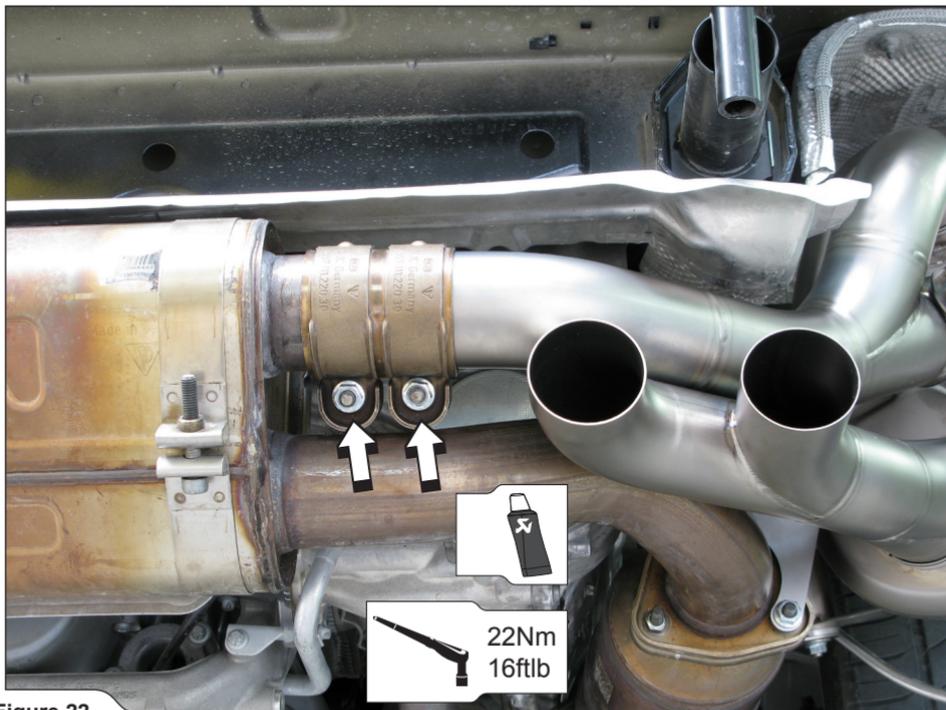


Figure 22

4. **For Slip-On and Slip-On Race:** assemble the clamps and spherical rings onto the Tail Pipes (Figure 23).

! **WARNING:** use anti-seize copper paste on clamp bolt threads!



Figure 23

5. **For Slip-On and Slip-On Race:** replace the dismantled exhaust heat shields and rear bumper in the reverse order from the order in which they were removed. Check vehicle manufacturer manual for tightening torques. Slide and center the Akrapovič tail-pipes (in respect to rear bumper) onto the mufflers' outlet pipes as shown on both sides of the vehicle (**Figure 24**).
- ✚ INSTALLATION TIP:** coat the interior of the inlet bushes of the tail pipes with anti-seize copper paste.



**Figure 24**

6. **For Slip-On and Slip-On Race:** tighten Tail Pipes clamps to a specified torque on both sides of the vehicle. **(Figure 25).**

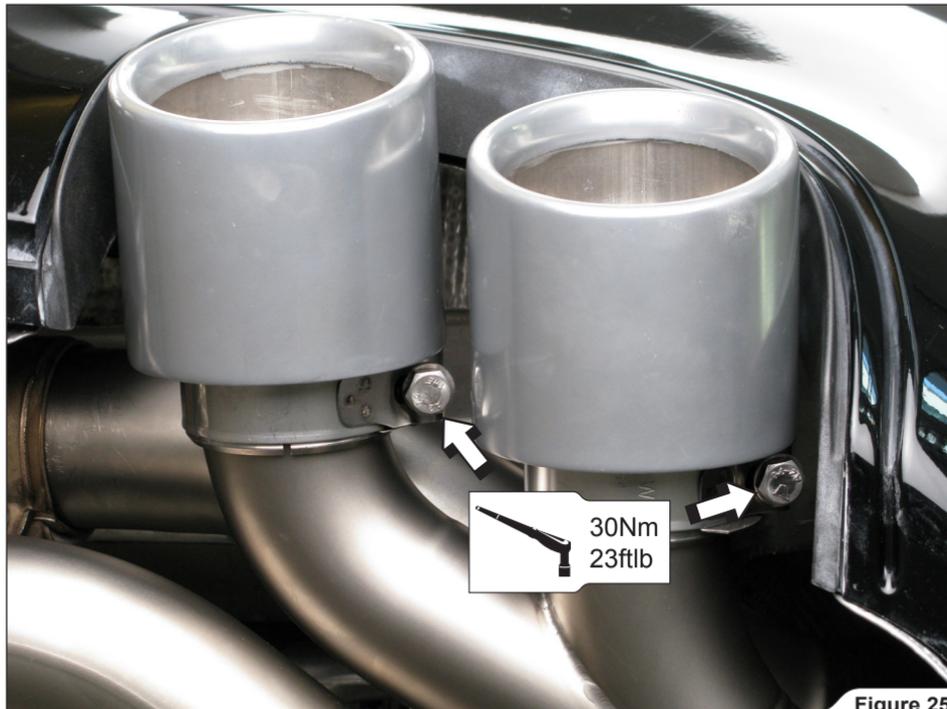


Figure 25

## **INSTALLATION OF THE OPTIONAL WIRELESS KIT FOR CONTROL OF EXHAUST FLAPS:**

1. **For Carrera type only:** unscrew the marked bolts and nuts. Remove the transmission panel off the vehicle (**Figure 26**).

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

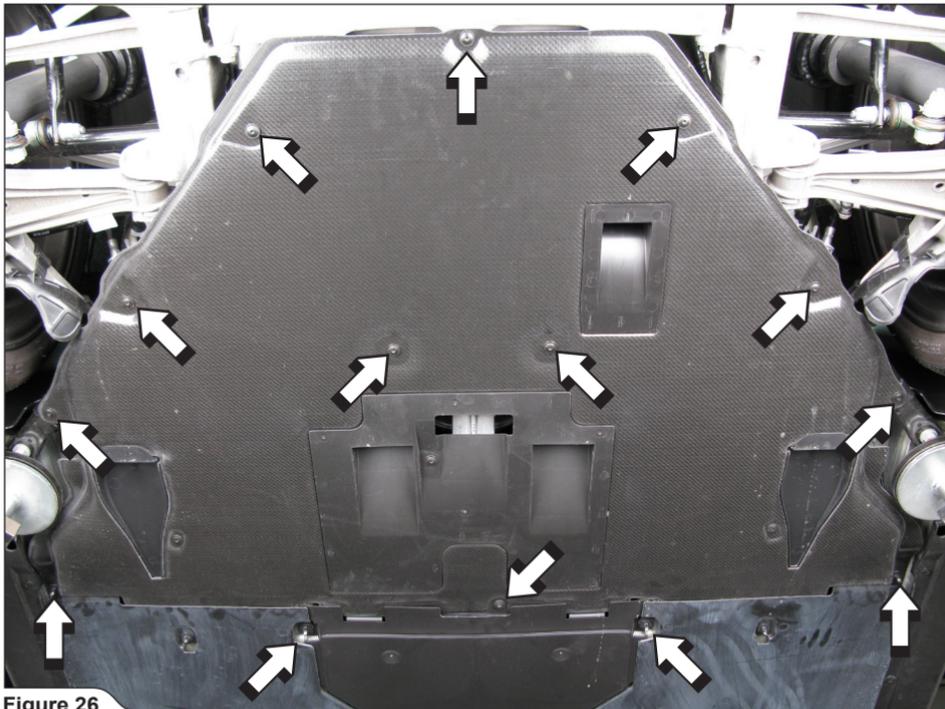


Figure 26

2. **For Carrera type only:** remove the marked stock rubber vacuum plug on the left side of the transmission (**Figure 27**).



**Figure 27**

3. **For Carrera type only:** link the 200cm plastic vacuum hose to a vehicles' vacuum outlet with short 4cm rubber hose (**Figure 28**).



**Figure 28**

4. **For Carrera type only:** direct the plastic vacuum hose to the right side of the engine compartment as shown and fasten it with plastic ties (**Figure 29, 30**).

! **WARNING:** direct the plastic hose in such a way, that it doesn't touch any hot or moving part of the vehicle!

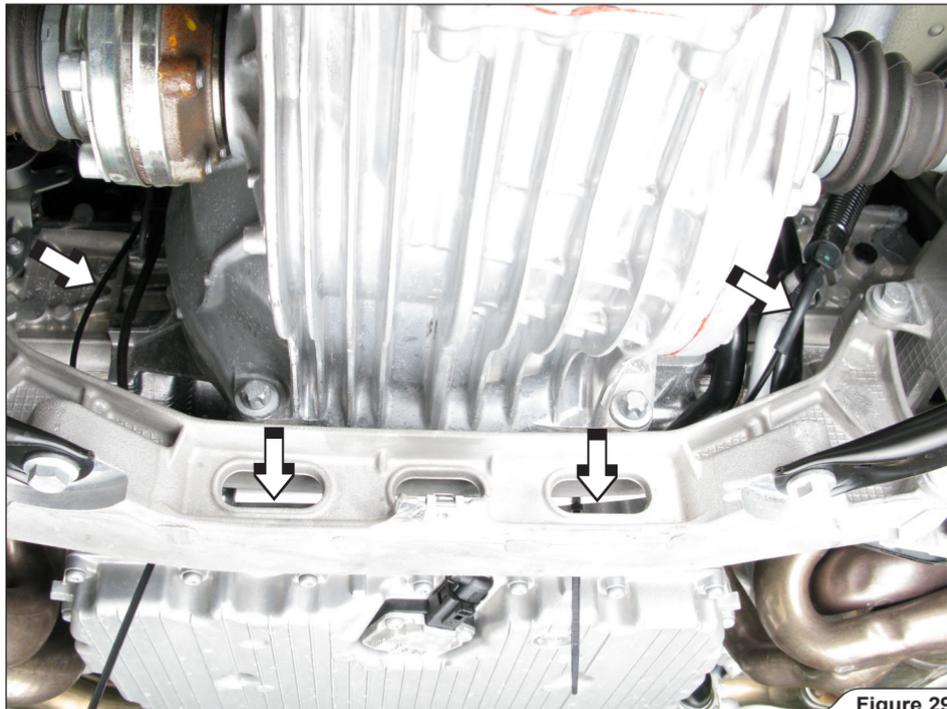


Figure 29

**!** CAUTION: cut off the excess of the plastic ties!



Figure 30

5. **For Carrera" S" type only:** cut the stock vakuu outlet rubber hose at the marked point and insert the T piece plastic distributor as shown. Link the 60cm rubber hose onto the T piece outlet (**Figure 31**).
- !** **WARNING:** direct the rubber hose in such a way, that it doesn't touch any hot or moving part of the vehicle!

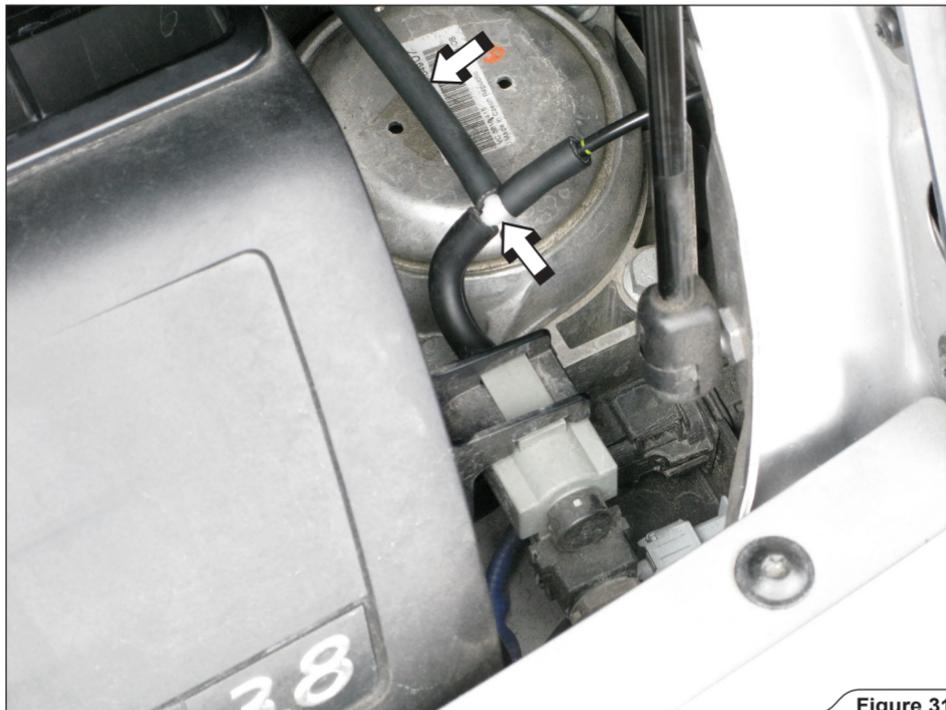


Figure 31

6. **For Carrera and Carrera”S” type:** assemble the bracket onto the electromagnet valve and correctly link the vakuu rubber/plastic hose (from the vacuum outlet) and 60cm rubber vacuum hose (to the vakuu actuators) onto the elektromagnet valve as shown (**Figure 32**).

**! WARNING:** direct the rubber hose in such a way, that it doesn't touch any hot or moving part of the vehicle!

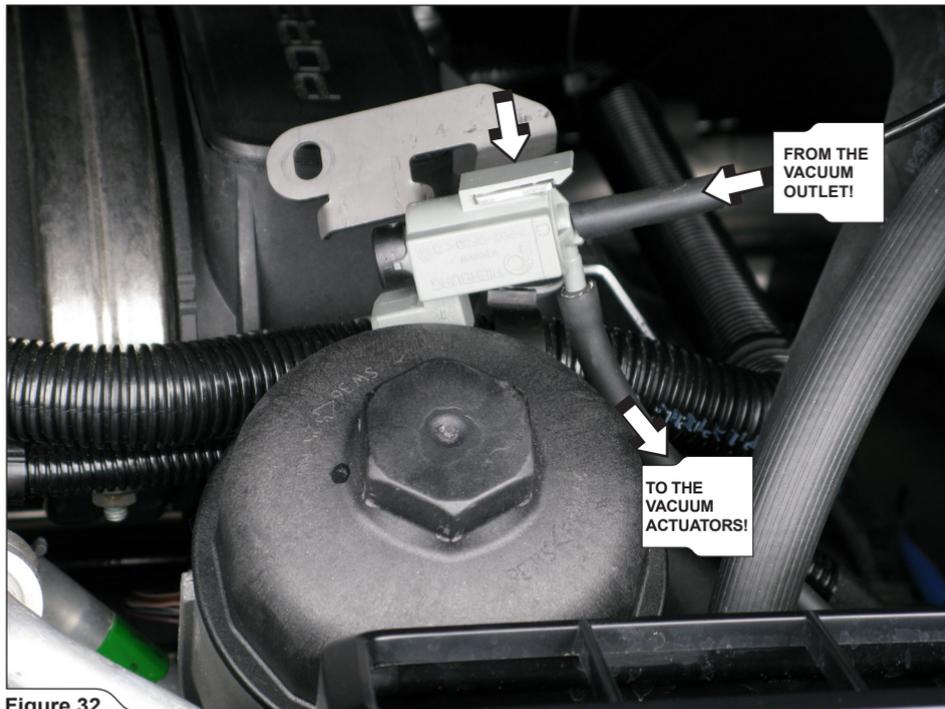


Figure 32

7. **For Carrera and Carrera”S” type:** tighten the bracket with electromagnet valve as shown, using stock bolt. Insert the marked T piece plastic distributor into the rubber 60cm hose (from the electromagnet valve). Link the 60cm (to the right vacuum actuator) and the 160cm (to the left vacuum actuator) rubber hoses from the T piece distributor to the vacuum actuators (**Figure 33, 34, 35, 36, 37, 38**).

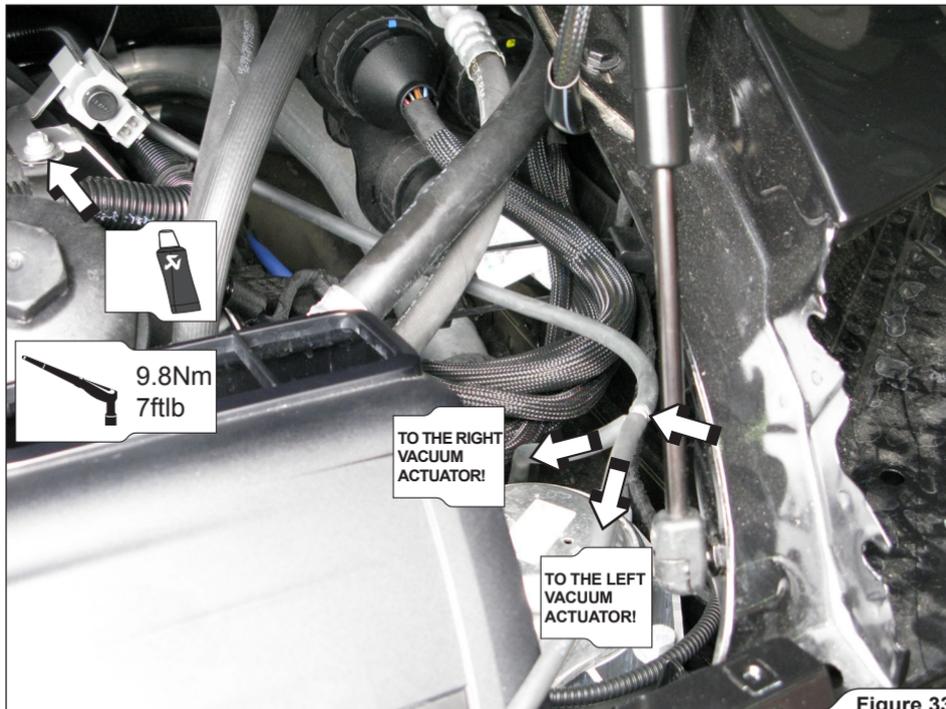


Figure 33

**!** **WARNING:** direct and secure (use additional plastic ties) the rubber hoses in such a way, that they don't touch any hot or moving parts of the vehicle!

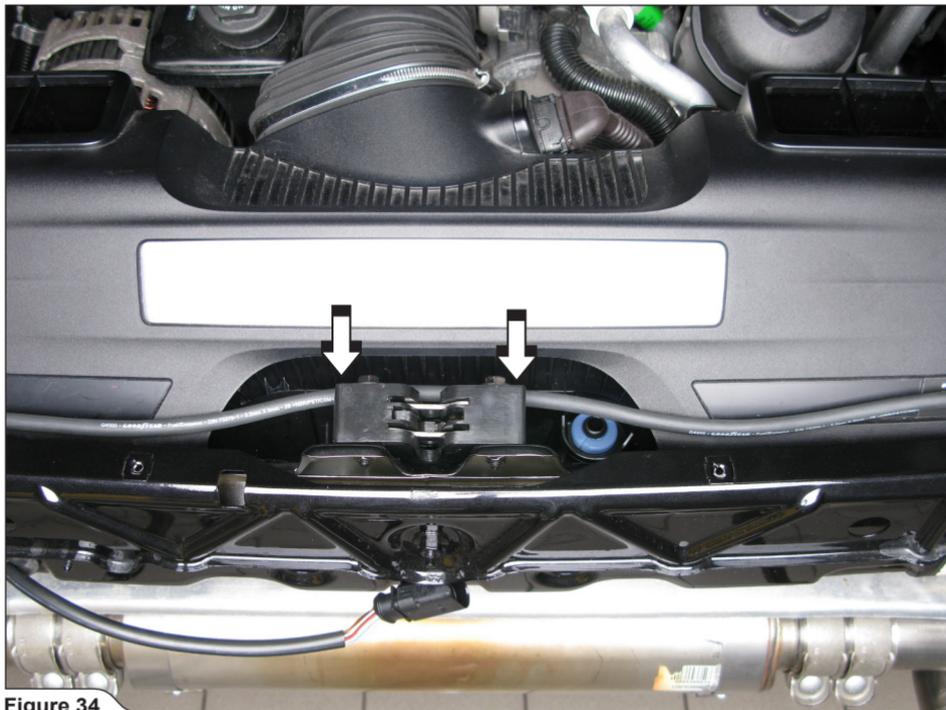


Figure 34

**!** **WARNING:** direct and secure (use additional plastic ties) the rubber hoses in such a way, that they don't touch any hot or moving parts of the vehicle!

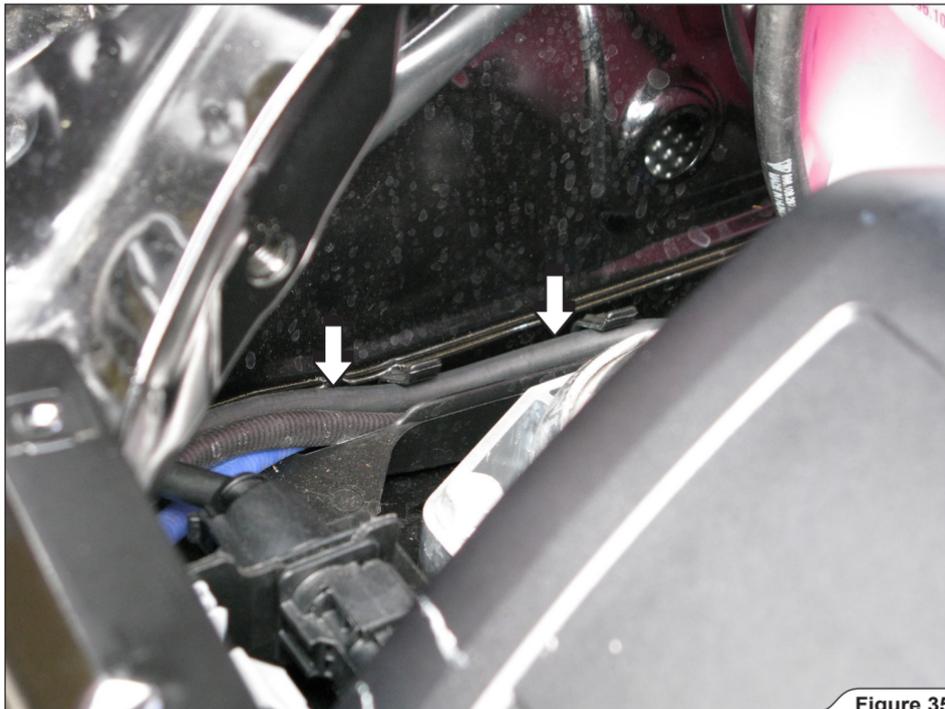


Figure 35

**!** **WARNING:** direct and secure (use additional plastic ties) the rubber hoses in such a way, that they don't touch any hot or moving parts of the vehicle!



**Figure 36**

- ! **WARNING:** adjust the vacuum actuators so, the valve is fully opened!
- ! **WARNING:** direct and secure (use additional plastic ties) the rubber hoses in such a way, that they don't touch any hot or moving parts of the vehicle!



Figure 37

- ! **WARNING:** adjust the vacuum actuators so, the valve is fully opened!
- ! **WARNING:** direct and secure (use additional plastic ties) the rubber hoses in such a way, that they don't touch any hot or moving parts of the vehicle!

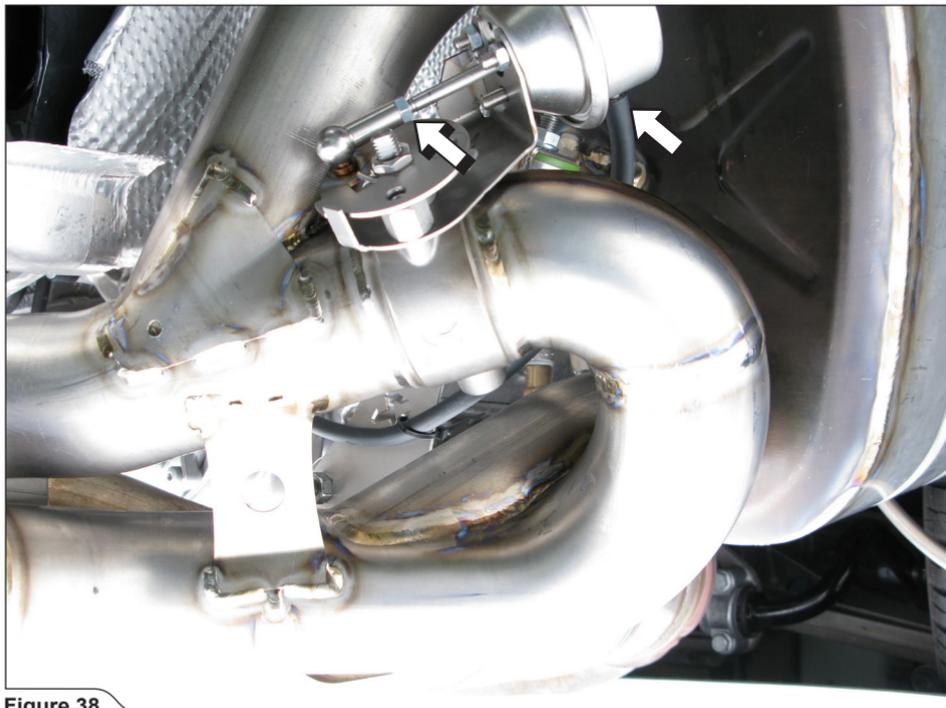


Figure 38

8. **For Carrera and Carrera" S" type:** disconnect the marked stock electrical connector and remove the connectors' wire protection (**Figure 39**).

! **WARNING:** make sure, that you take the ignition key out off the ignition lock, before disconnection of connector!



Figure 39

9. For Carrera and Carrera”S” type: plug the transmitter’s connector into the electromagnet valve, as shown (Figure 40).

! **WARNING:** direct and secure (use additional plastic ties) the transmitters’ cable in such a way, that it doesn’t touch any hot or moving part of the vehicle!



Figure 40

10. For Carrera and Carrera”S” type: connect the transmitter’s red/black wire with brown and red with white/blue, using additional couplers (Figure 41).

**✘ INSTALLATION TIP:** transmitter’s blue wire should not be connected.



Figure 41

11. **For Carrera and Carrera”S” type:** reconnect the stock electrical connector, and secure the transmitter using plastic tie wraps (**Figure 42**).

! **WARNING:** direct and secure the electrical cables in such a way, that they don't touch any hot or moving part of the vehicle!



Figure 42

**!** CAUTION: secure all vacuum tubing connections, using clamps from Akrapovič installation kit! Install the clamps with corresponding tube clamp pliers (Figure 43).



Figure 43

### Final installation:

**For Slip-On and Slip-On Race:** replace all of the dismantled stock parts in the reverse order from the order in which they were removed.

- !** **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 IF WHITE SMOKE COMES OUT OF THE MUFFLER ON FIRST OPERATION.**
- !** **DO NOT STAND BEHIND THE MUFFLER ON FIRST OPERATION.**
- !** **DO NOT USE AUTOMOTIVE WHEEL CLEANERS OR ANY CLEANING PRODUCTS WHICH CONTAIN ACIDIC ADDITIVES TO CLEAN AKRAPOVIČ EXHAUST SYSTEMS.**
- !** **IN CASE OF ORDERING ANY SPARE PARTS FOR WIRELESS KIT, PLEASE REFER TO THE WIRELESS KIT SERIAL NUMBER FROM THE STICKER ON THE TRANSMITTER OR FROM KEYFOBS' PRINTED CIRCUIT BOARD.**

## **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.”







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



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