



Installation instructions

Akrapovič Exhaust System:

Slip-On

for the

McLaren 650S

McLaren 650S Spider



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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.**



Hexagon key 4 mm wrench
T-handle swivelling 8 mm wrench
T-handle swivelling 10 mm wrench
T-handle 13 MM wrench
T-handle Torx E12 wrench
Bi-hex 8 mm socket
Bi-hex 10 mm socket
Combination 10 mm wrench
Combination 13 mm wrench
Cross head 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 12C MODEL. THERE MAY BE SOME DIFFERENCES IN INSTALLATION PROCEDURES FOR 12C SPIDER MODEL.

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 the marked bolts on both sides, partially shift the air brake, disconnect the stop light's electrical connector and carefully remove the air brake off the vehicle (**Figure 1**).
- ! **CAUTION:** make sure not to injure yourself or damage any part of the vehicle during this process!



Figure 1

2. Unscrew the marked bolts on both engine compartment cowlings (**Figure 2**).

! **CAUTION:** be careful not to damage or scratch any part of the vehicle during this process!



Figure 2

3. Carefully remove the engine intake and expansion tank covers (Figure 3).

! **CAUTION:** be careful not to damage or scratch any part of the vehicle during this process!



Figure 3

4. Unscrew the marked engine compartment cowlings bolts on both sides and four expansion tank 's bracket bolts (Figure 4).

CAUTION: be careful not to damage or scratch any part of the vehicle during this process!

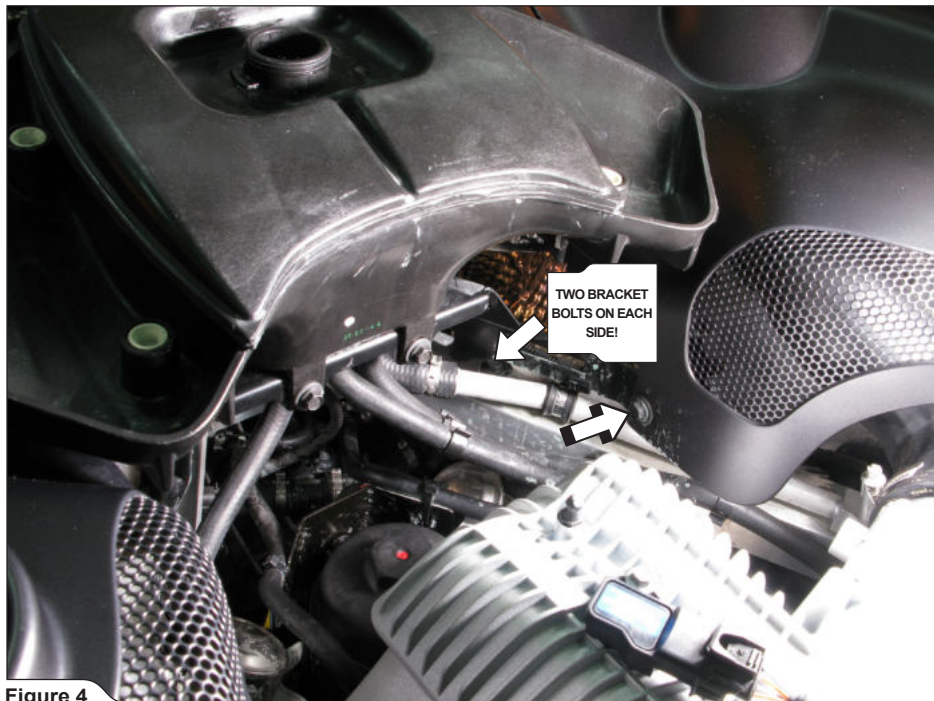


Figure 4

- Partially shift the expansion tank and carefully remove the engine compartment cowlings. Unscrew the four engine hood bolts and carefully remove the hood off the vehicle (**Figure 5, 6**).
- ! CAUTION: be careful not to damage or scratch any part of the vehicle during this process!**



Figure 5

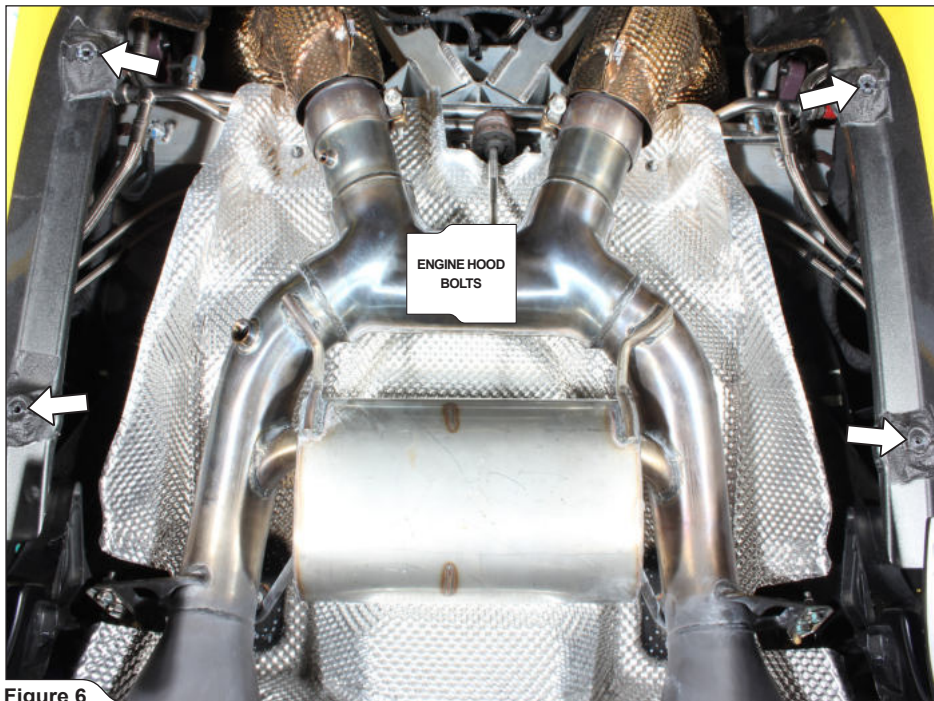


Figure 6

6. Unscrew the muffler's front rubber bracket, loosen the spherical clamps and slide them off the joints (**Figure 7**).

! **CAUTION:** be careful not to damage or scratch any part of the vehicle during this process!

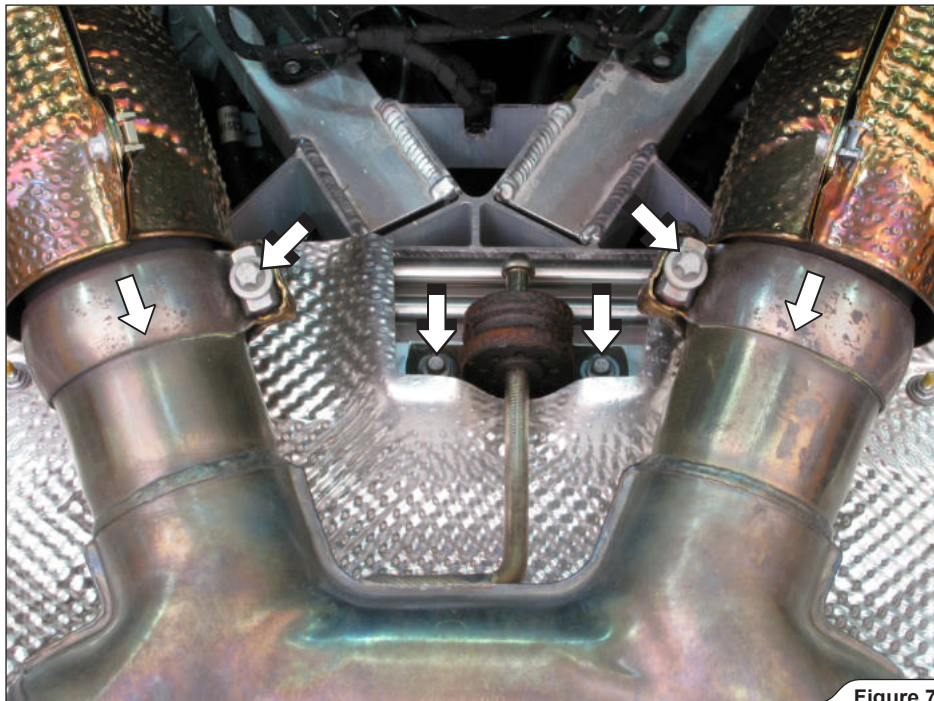


Figure 7

7. Unscrew both rear muffler's brackets and carefully remove the muffler off the vehicle (Figure 8).

! **CAUTION:** be careful not to damage or scratch any part of the vehicle during this process!

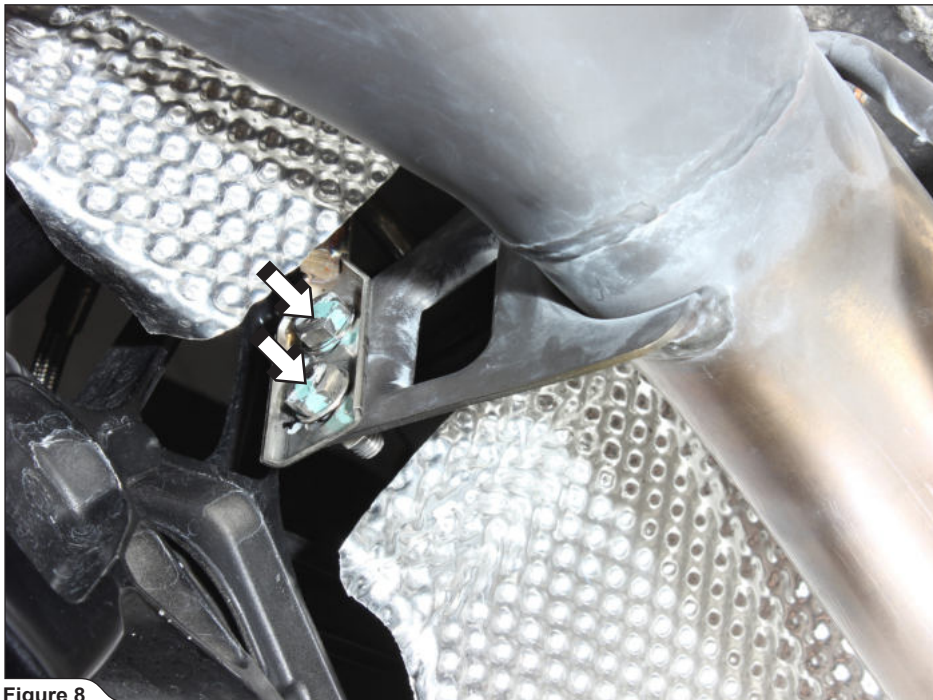


Figure 8

8. Unscrew the marked heat shield nuts and carefully remove the lower heat shield off the vehicle (Figure 9).

! **CAUTION:** be careful not to damage or scratch any part of the vehicle during this process!

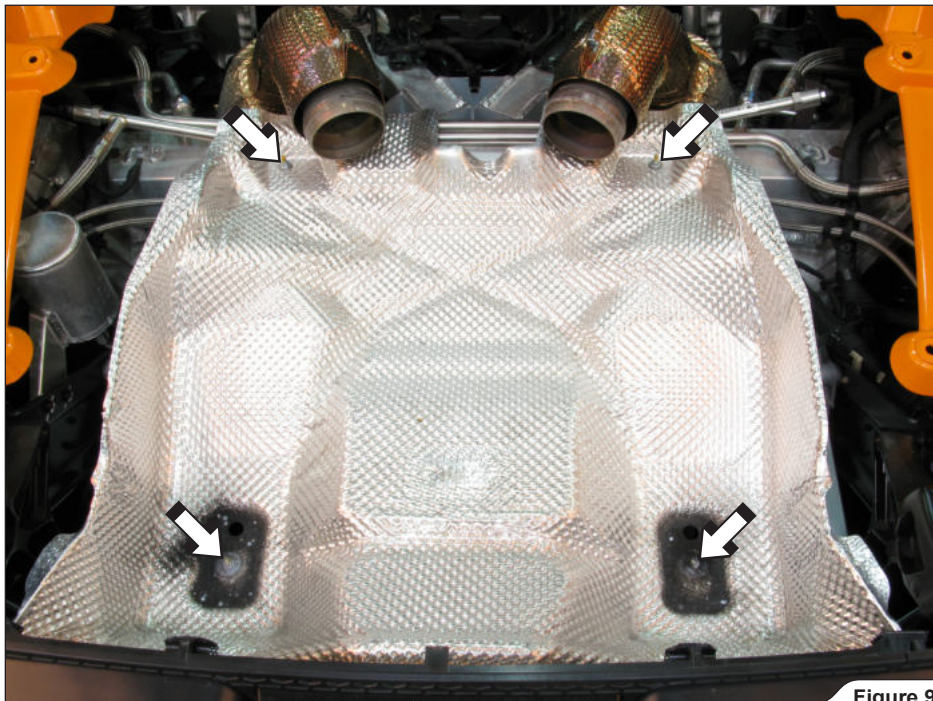


Figure 9

9. Unscrew the marked bolts on both tail pipes and remove them off the vehicle (**Figure 10**).

! CAUTION: be careful not to damage or scratch any part of the vehicle during this process!

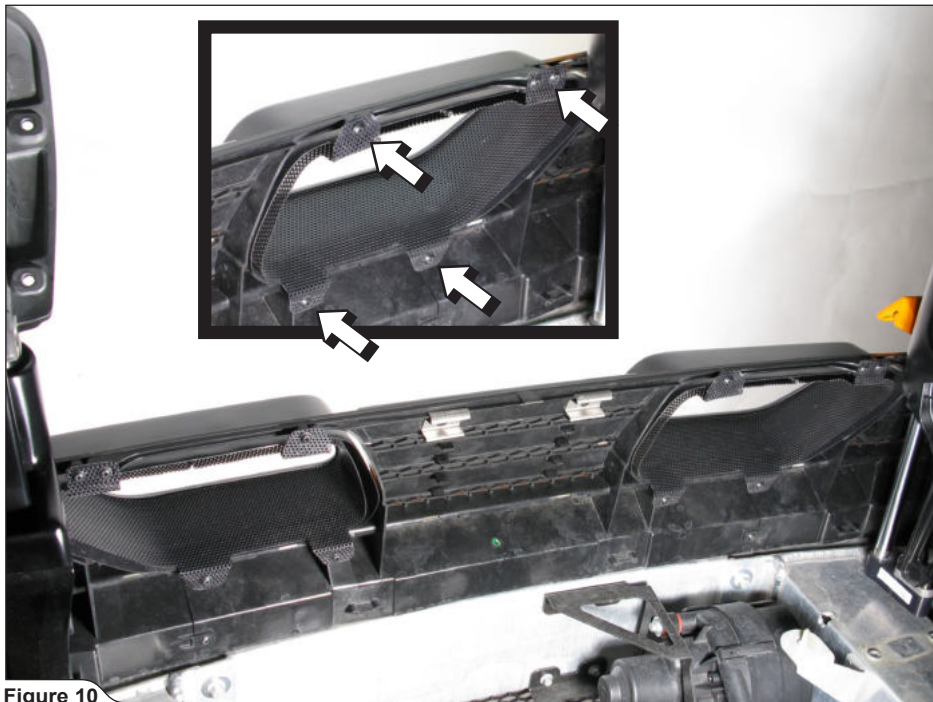


Figure 10

INSTALLATION OF THE AKRAPOVIČ EXHAUST SYSTEM:

1. Correctly orient and carefully insert the tail pipes into the tail trim panel and hand tighten the brackets onto the tail pipes (using bolts from Akrapovič installation kit), as shown (Figure 11).

! **WARNING:** do not fully tighten the brackets' bolts yet!

! **CAUTION:** make sure to install the correct brackets on each side of the tail pipes!

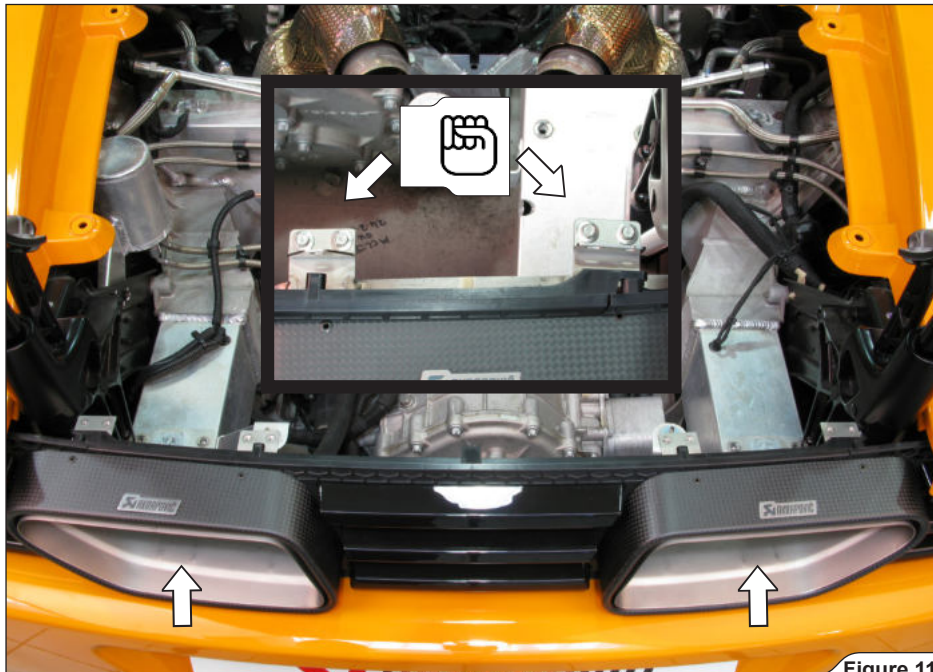


Figure 11

- Adjust and center both tail pipes in respect to the trim panel and rear bumper and screw the tail pipes onto the trim panel, using stock bolts (**Figure 12**).

! **CAUTION:** be careful not to damage or scratch any part of the vehicle during this process!

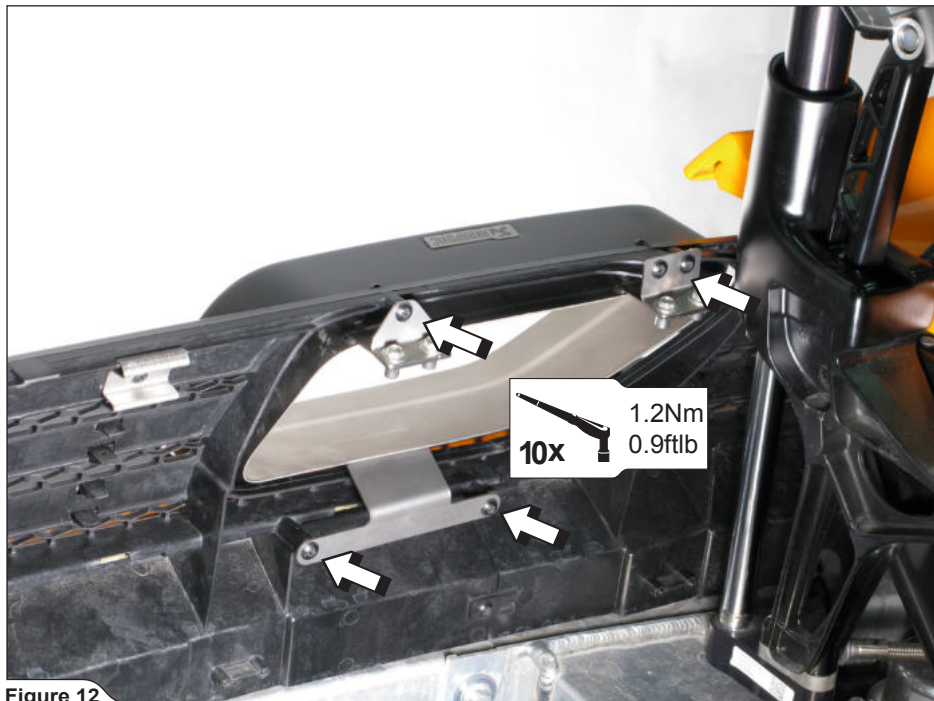


Figure 12

3. Provisionally install the engine hood back onto the vehicle. Adjust and center both tail pipes; pay attention to the gap between engine hood and Akrapovič tail pipes' logos and parallelism of tail pipes and engine hood's edge (**Figure 13**).

! CAUTION: be careful not to damage or scratch any part of the vehicle during this process!



Figure 13

4. Remove the engine hood off the vehicle again (be careful, not to shift the tail pipes during removing). Tighten the marked tail pipes' bolts on both tail pipes, to the specified torque (Figure 14).

! **CAUTION:** be careful not to damage or scratch any part of the vehicle during this process!

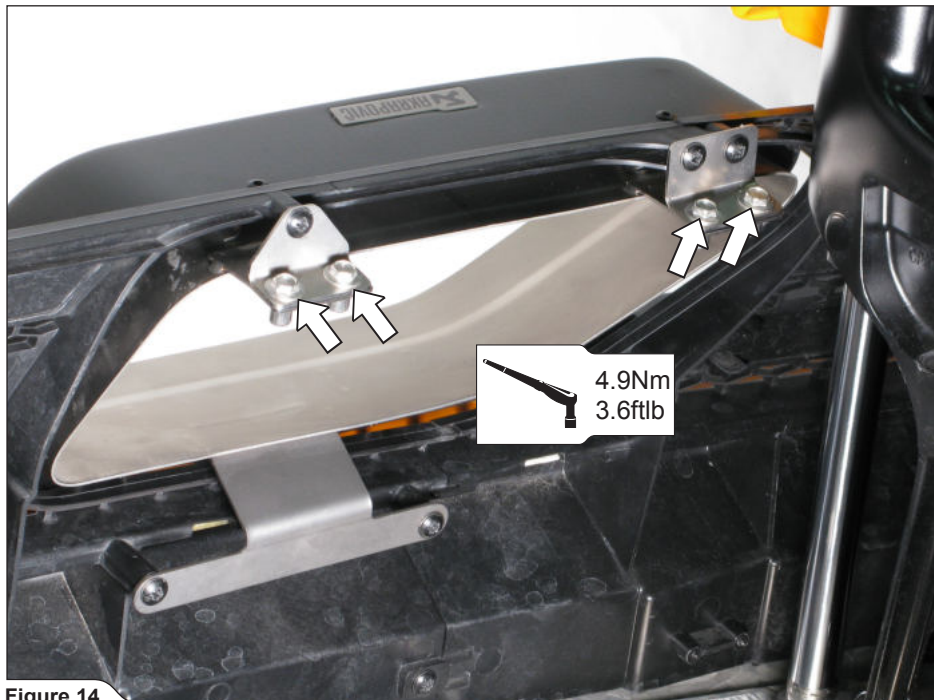


Figure 14

5. Correctly orient the stock clamps and install them onto the muffler's inlets. Slide the stock rubber bracket onto the muffler's pin (**Figure 15**).

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

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

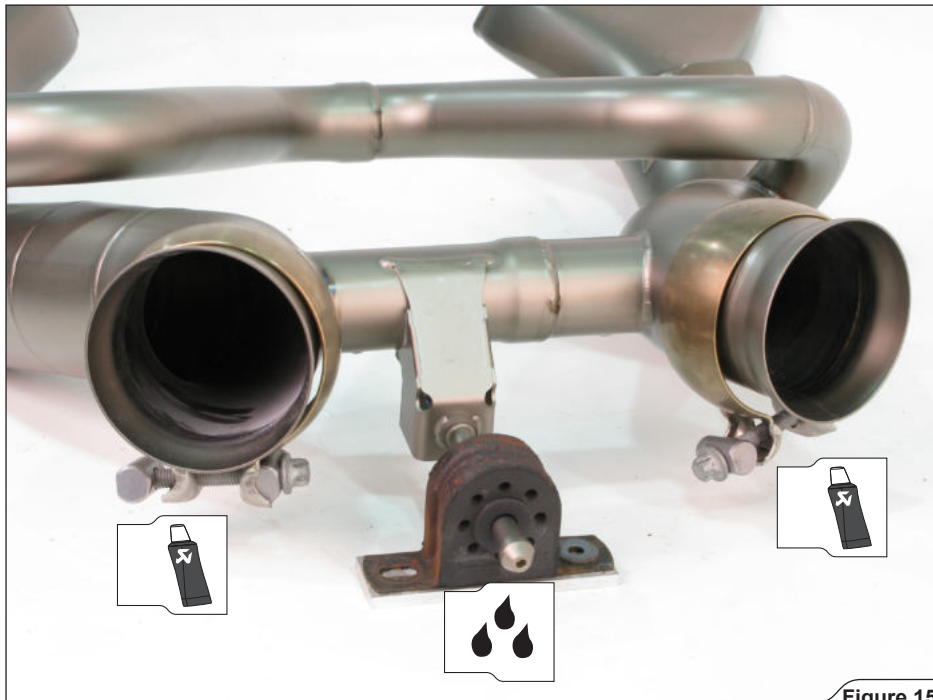


Figure 15

6. Reinstall the he lower heat shield (Figure 16).

! **CAUTION:** be careful not to damage or scratch any part of the vehicle during this process!

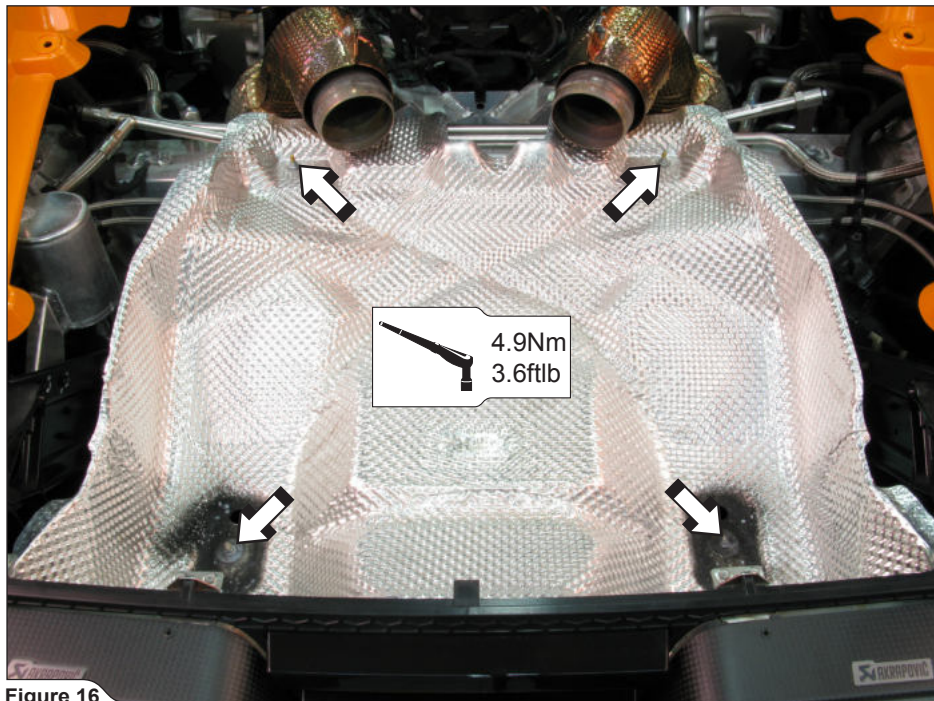
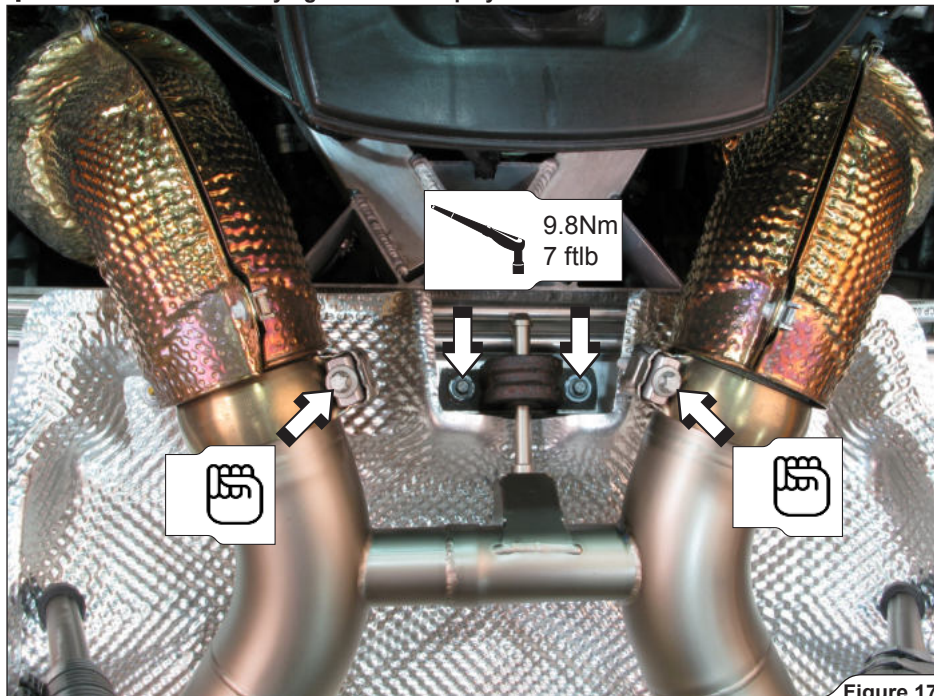


Figure 16

- Carefully insert the muffler, slide the clamps over the joints and tighten the front rubber bracket onto the chassis (**Figure 17**).

! **CAUTION:** be careful not to damage or scratch any part of the vehicle during this process!

! **WARNING:** do not fully tighten the clamps yet!



8. Hand tighten both rear muffler brackets onto the muffler, using stock bolts, nuts and washers (Figure 18).

! **CAUTION:** be careful not to damage or scratch any part of the vehicle during this process!

! **WARNING:** do not fully tighten the bracket - muffler bolts yet!

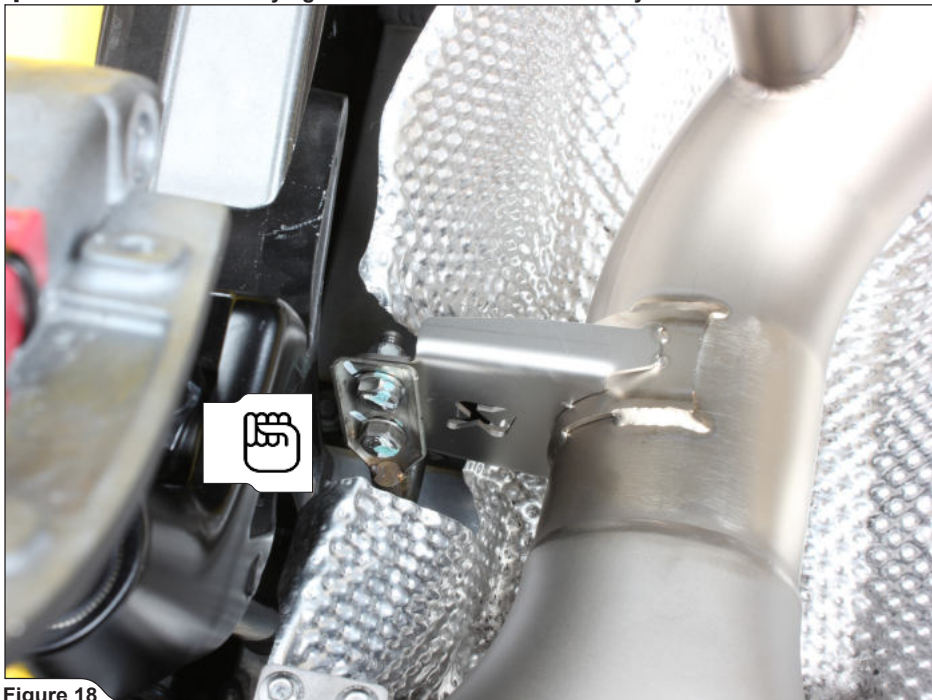


Figure 18

- Adjust and center the muffler in respect to the tail pipes and tighten the muffler's rear brackets and clamps to the specified torques (**Figure 19, 20, 21**).

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

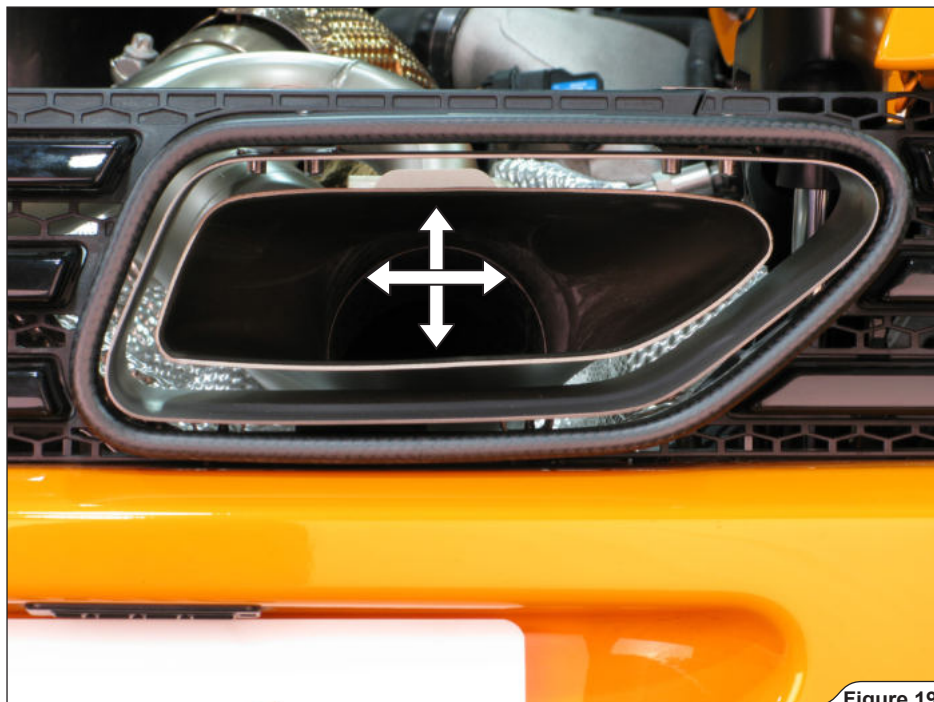


Figure 19

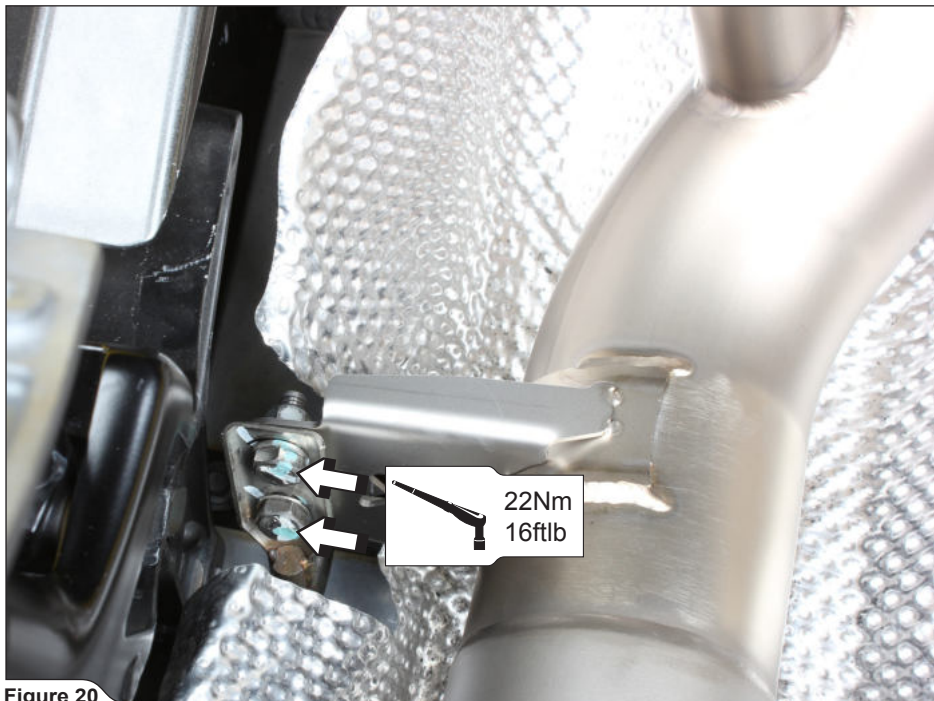


Figure 20

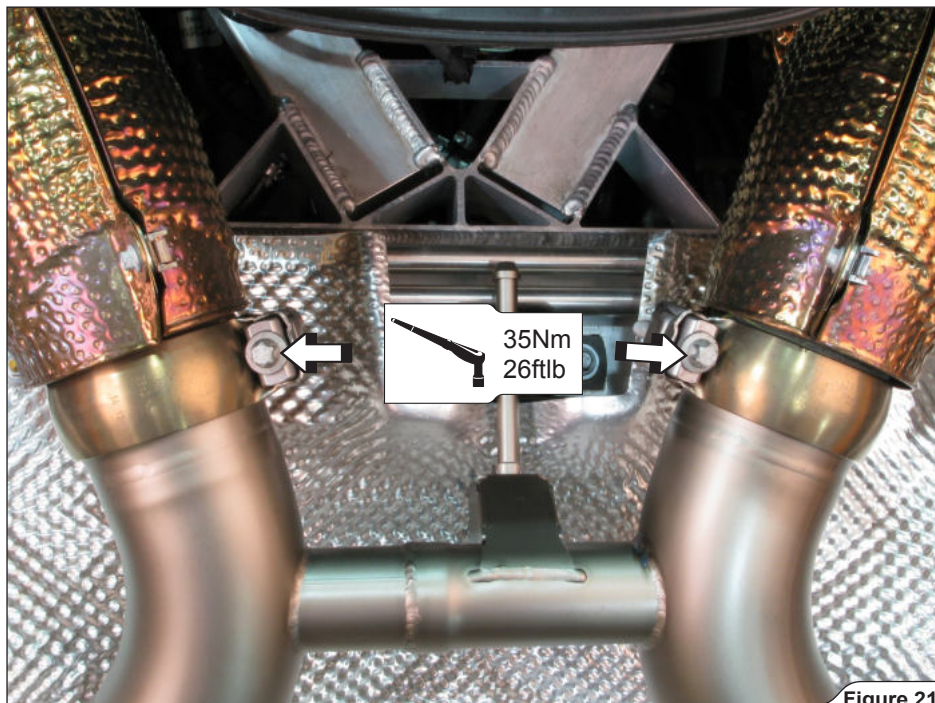


Figure 21

8. 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!**

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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