



Muffler Repair Instructions



501771

www.akrapovic.com

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.
5. 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.
6. Technical specifications of Akrapovič exhaust systems and related products are subject to change without notice.
7. 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.
8. 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.
9. 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

No part of the Akrapovič exhaust system or its documentation may be reproduced or distributed in any form or by any means without the prior written authorization of the Akrapovič company.

© Akrapovič, d.d. All rights reserved.

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 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.**



Power drill
4.9 mm drill bit
3.3 mm drill bit
Safety gloves
Plastic ice scraper
4 mm pin punch
Hammer
Rubber mallet
Large flat screwdriver
Masking tape
Riveting pliers
Thinner (Nitro)



BEFORE INSTALLING, CHECK SCHEMATIC OF THE EXHAUST SYSTEM!



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.

DISASSEMBLY OF THE MUFFLER:

1. If the muffler has one, remove the insert from the outlet. Drill all the rivets at the front and rear of the muffler, using 4.9 mm drill bit (**Figure 1**).

! WARNING: make sure, that you don't injure yourself or damage the outer sleeve, end cap or inlet cap of the muffler during this process! Use personal protection equipment!

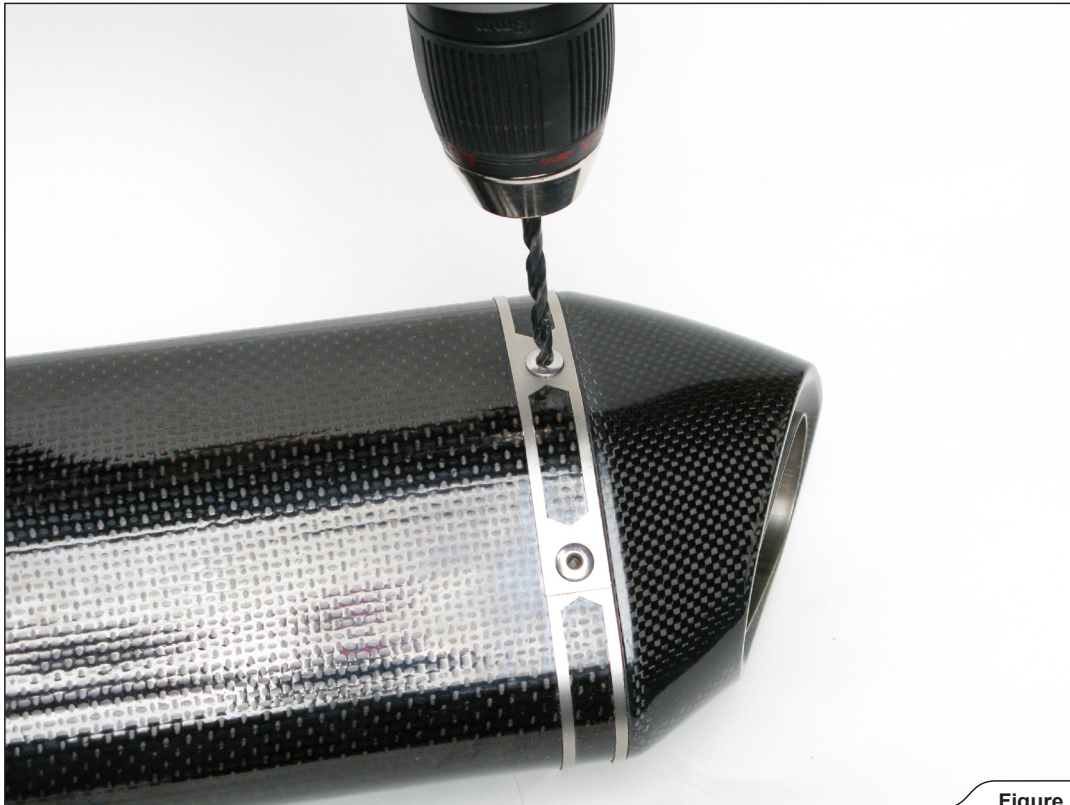


Figure 1

2. Punch in all remains of the rivets, using 4 mm pin punch and remove the rivet tapes (**Figure 2**).

! WARNING: make sure, that you don't injure yourself or damage the outer sleeve, end cap or inlet cap of the muffler during this process! Use personal protection equipment!



Figure 2

3. Carefully tap the outlet and inlet caps out of the muffler sleeve (approximately 15 mm from the outer sleeve edge), using only edge of the rubber mallet, until they start to move (**Figure 3**).

! WARNING: tap onto the muffler sleeve very carefully! It can get damaged easily!



Figure 3

4. Fully extract the outlet and inlet caps out of the muffler's sleeve, using lever - hammer's handle or equivalent (**Figure 4, 5, 6**).

! WARNING: make sure, that you don't injure yourself or damage the outer sleeve, end cap or inlet cap of the muffler during this process! Use personal protection equipment!



Figure 4



Figure 5

✂ INSTALLATION TIP: in case of welded pipe with inlet cap, use pipe as a lever!



Figure 6

5. Remove the used damping material (**Figure 7**), used damping sleeve or cartridge (**Figure 8**) off the muffler's perforated tube.

! WARNING: use personal protection equipment during this process!



Figure 7

! WARNING: use personal protection equipment during this process!



Figure 8

ASSEMBLY OF THE MUFFLER:

1. **For sleeve type repack kit only:** in order to install new damping sleeve more easily, use masking tape around the end of the perforated tube/metal mesh, as shown (Figure 9, 10).
- ! WARNING:** make sure, that you don't injure yourself! Use personal protection equipment!



Figure 9



Figure 10

2. **For sleeve type repack kit only:** pull the new damping sleeve over the wrapped perforated tube (**Figure 11**) and tuck in the damping sleeve as shown, using large screwdriver or equivalent (**Figure 12**).

! WARNING: make sure, that you don't damage the damping sleeve wrap during this process!



Figure 11



Figure 12

3. **For cartridge type repack kit only:** in order to install new cartridge more easily, use masking tape around the end of the perforated tube/metal mesh, as shown (**Figure 13**).

! WARNING: make sure, that you don't injure yourself! Use personal protection equipment!

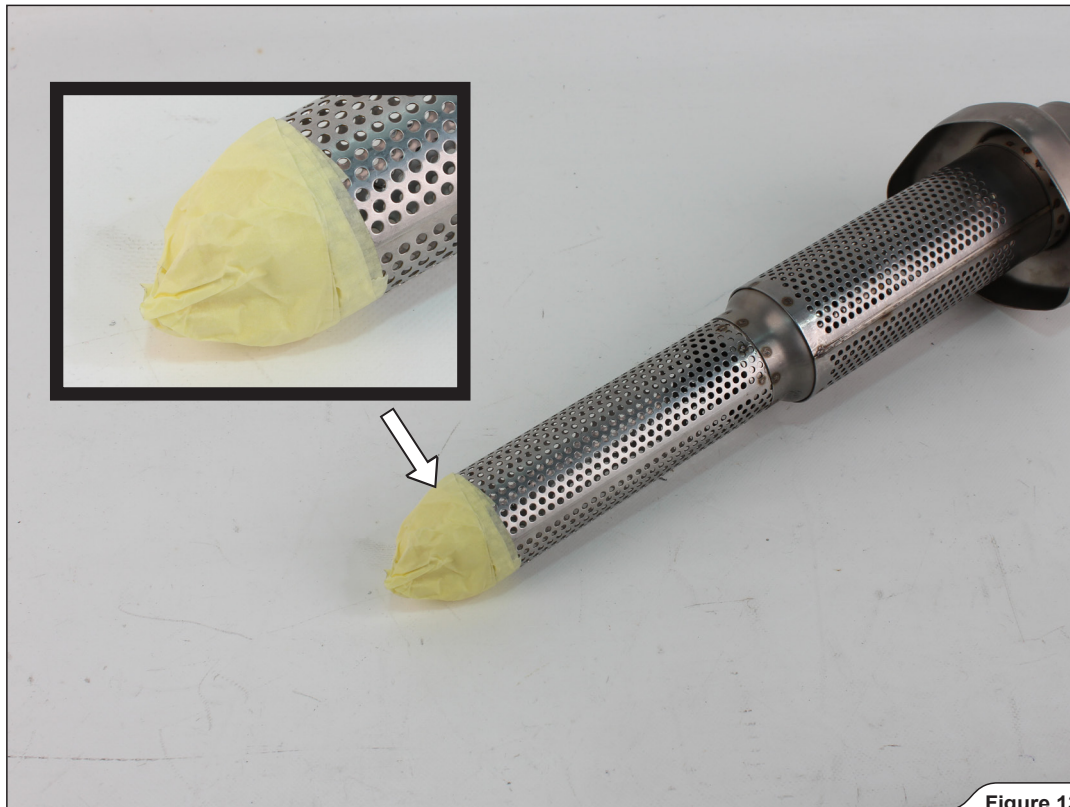


Figure 13

4. **For cartridge type repack kit only:** pull the new cartridge over the wrapped perforated tube (**Figure 14**) and tuck in the new cartridge as shown, using large screwdriver or equivalent (**Figure 15**).

! WARNING: make sure, that you don't injure yourself! Use personal protection equipment!

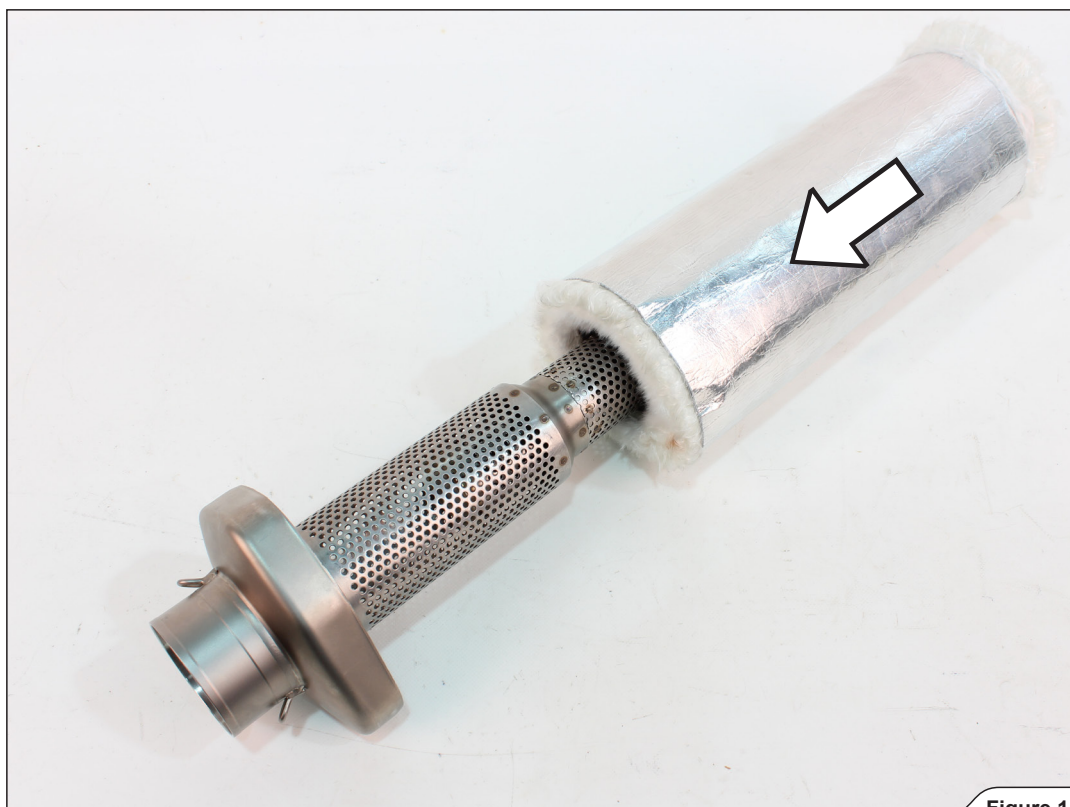


Figure 14



Figure 15

5. For cartridge type repack kit only: remove the masking tape off the perforated tube/metal mesh (Figure 16).



Figure 16

6. **For roll type repack kit only:** tightly wrap the damping material onto the perforated tube/metal mesh (**Figure 17**).
! WARNING: use personal protection equipment during this process!



Figure 17

7. **For roll type repack kit only:** secure the damping material from unwrapping with masking tape and tuck in the roll as shown, using large screwdriver or equivalent (**Figure 18**).



Figure 18

8. **For scattered type repack kit only:** carefully tap the inlet cap into the muffler sleeve (**Figure 19**).
- ! **WARNING:** make sure, that you don't injure yourself or damage the outer sleeve or inlet cap during this process! Use personal protection equipment!



Figure 19

9. **For mufflers with insulated muffler sleeve kit only:** remove the old insulation out of the sleeve. Roll the sheet of new insulation material as shown, and slide it into the muffler sleeve (**Figure 20**).

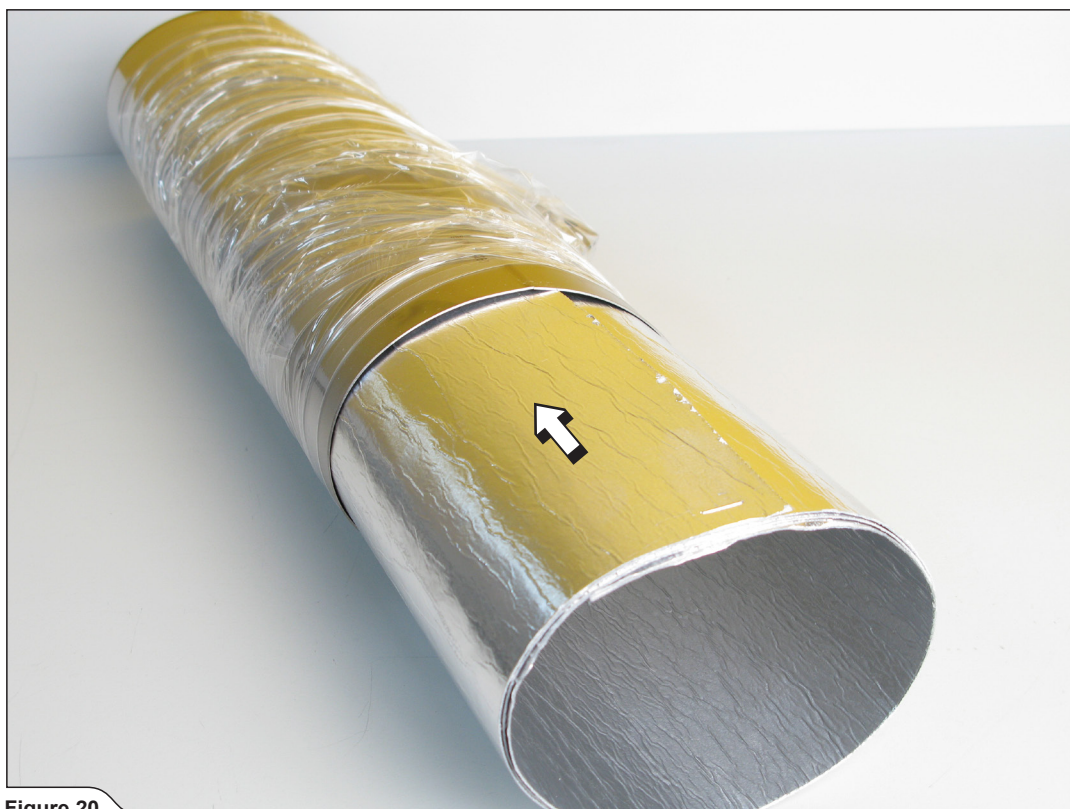


Figure 20

10. **For scattered type repack kit only:** tuck in the chunks of new damping material one by one, using large screwdriver or equivalent (**Figure 21, 22**). Make sure, that damping material is equally divided throughout the muffler.



Figure 21

- ! WARNING:** make sure, that you don't injure yourself or damage the outer sleeve or inlet cap during this process! Use personal protection equipment!



Figure 22

11. For sleeve and roll type repack kits: slide the muffler's sleeve onto the inlet cap (Figure 23).

! **WARNING:** make sure, that you don't injure yourself or damage the outer sleeve or inlet cap during this process! Use personal protection equipment!



Figure 23

12. For sleeve type repack kit only: remove the masking tape off the perforated tube/metal mesh (Figure 24).



Figure 24

13. **For all repack and sleeve kit types:** position the outlet cap precisely into the muffler outer sleeve and carefully tap it into the final position (**Figure 25**).

! **WARNING:** make sure, that you don't injure yourself or damage the outer sleeve or outlet cap during this process! Use personal protection equipment!



Figure 25

14. **For pre drilled sleeve kit types only:** re drill the rivet holes, using 4,9 mm drill bit (**Figure 26**).

! **WARNING:** make sure, that you don't injure yourself or damage the outer sleeve or outlet cap during this process! Use personal protection equipment!



Figure 26

15. **For all repack and sleeve kit types:** insert the rivets together with rivet tapes into the muffler, as shown; if you are repairing a street legal muffler be sure to use pair of longer rivets to rivet homologation plate together with the first two holes in the rivet tape (**Figure 27**).

✂ INSTALLATION TIP: if you are replacing the outer sleeve without pre drilled rivet holes, you should mark the rivet holes with rivet tape. Drill and install rivets one by one, make sure that rivet tape is tight before you proceed to next step of drilling and riveting.



Figure 27

16. **For all repack and sleeve kit types:** rivet the rivets one by one on both sides of the muffler (**Figure 28**).

! WARNING: make sure, that you don't injure yourself or damage any part of the muffler during this process!
Use personal protection equipment!



Figure 28

REPLACEMENT OF HEAT-RESISTANT STICKER:

1. Remove the old sticker off the muffler's sleeve, using plastic ice scraper or equivalent (**Figure 29**).

! WARNING: make sure, that you don't injure yourself or damage the outer sleeve during this process! Use personal protection equipment!

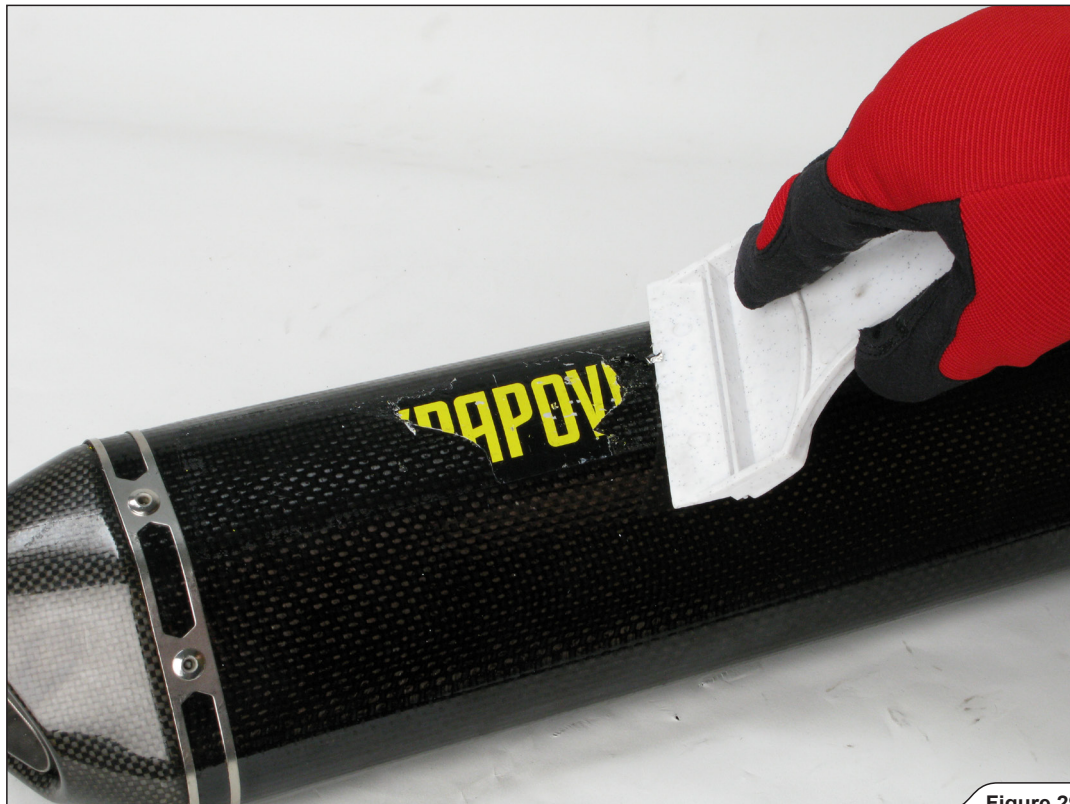


Figure 29

2. Remove the remains of the sticker glue with nitro thinner or equivalent (**Figure 30**).

! WARNING: use personal protection equipment!



Figure 30

3. Fold the edge of the new sticker base, as shown (Figure 31).

! **WARNING:** make sure, that you don't damage the sticker during this process!



Figure 31

4. Align the sticker in respect to the muffler and stick the edge of the sticker (with the base of the sticker still attached!) onto the muffler's sleeve (Figure 32).

! **WARNING:** make sure, that you don't damage the sticker during this process!



Figure 32

5. Slowly pull the base underneath the sticker while simultaneously pressing it onto the muffler's sleeve (Figure 33).

! **WARNING:** make sure, that you don't trap any air bubbles under the sticker!



Figure 33

6. Smooth down (especially the edges) the sticker, using the base of the sticker (Figure 34).

! **WARNING:** make sure, that you don't damage or scratch the sticker during this process!



Figure 34

FINAL PROCEDURE:

Clean grease spots:

- a. Titanium muffler outer sleeve: use a soft cloth sprayed with a multi-purpose spray lubricant (WD-40 or equivalent), then wipe with a soft dry cloth.
- b. Carbon-fiber muffler outer sleeve: use a soft dry cloth.
- c. Muffler – carbon-fiber outlet cap: use a soft dry cloth.
- d. Stainless steel inlet pipe/cap: use a soft cloth sprayed with a contact cleaner, then wipe with a soft dry cloth
- e. Titanium inlet pipe/cap, outlet cap: use a soft cloth sprayed with a multi-purpose spray lubricant (WD-40 or equivalent), then wipe with a soft dry cloth.

Cleaning will prevent spots from burning onto the surface. Do not use aggressive chemical cleaners, because they can damage the sticker.

- ! WARNING: make sure all the 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.**
- ! WARNING: check vehicle manufacturer manual for tightening torques (for dismantled stock parts)!**
- ! 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.**

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 the high temperatures.
2. Periodically make sure all the bolts and springs are sufficiently tight.

