



Installation instructions

Akrapovič Exhaust System:

Open

for the

Harley-Davidson

models:

Touring

Softail



503211

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

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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 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.**



Socket 3/8 inch
Socket 1/2 inch
Torx 40
Hexagon 1/4 inch wrench
Combination 3/4 inch wrench
Combination 13 mm wrench
Combination 22 mm wrench
Flat head screwdriver



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.



THIS MANUAL IS SPECIFIC TO THE HARLEY DAVIDSON FLSTC HERITAGE SOFTAIL CLASSIC. THERE MAY BE SOME DIFFERENCES IN INSTALLATION PROCEDURES FOR OTHER MODELS.



AKRAPOVIČ MAKES EVERY EFFORT TO PROVIDE IMPROVED CORNERING CLEARANCE FOR EXHAUST SYSTEMS. HOWEVER, DUE TO DESIGN AND SPACE LIMITATIONS ON SOME MOTORCYCLE MODELS, GROUND AND CORNERING CLEARANCE MAY NOT IMPROVE OR MAY EVEN BE REDUCED. FOR ADVANCED USERS, WE RECOMMEND INCREASING THE SPRING PRELOAD SETTINGS TO IMPROVE GROUND CLEARANCE.



THE AKRAPOVIČ WARRANTY DOES NOT COVER DISCOLORATION OF ANY CHROME PRODUCTS.

REMOVAL OF ORIGINAL EXHAUST SYSTEM:

1. Put the motorcycle on a side stand, we recommend a center stand.

2. Remove the original mufflers, heat shields, header pipes and mufflers' brackets off the motorcycle.

✂ INSTALLATION TIP: check vehicle manufacturer manual for correct disassembly procedure.

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

3. For models with exhaust valve only: remove the original exhaust valve cable from servo motor.

✂ INSTALLATION TIP: check vehicle manufacturer manual for correct disassembly of valve cable.

! WARNING: do not turn the servo motor wheel with force, or the servo motor could be damaged!

! WARNING: do not disconnect the servo's electrical connector or remove the servo motor off the vehicle permanently (only during disassembly of exhaust valve cable)!

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

INSTALLATION OF THE AKRAPOVIČ EXHAUST SYSTEM:

1. For models with mufflers' bracket mounted exhaust valve servo motor only: attach the servo motor to the additional Akrapovič bracket, using original bolts and install the bracket onto the frame, using bolts (3/8x3/4 inch) and washers from Akrapovič installation kit (Figure 1).

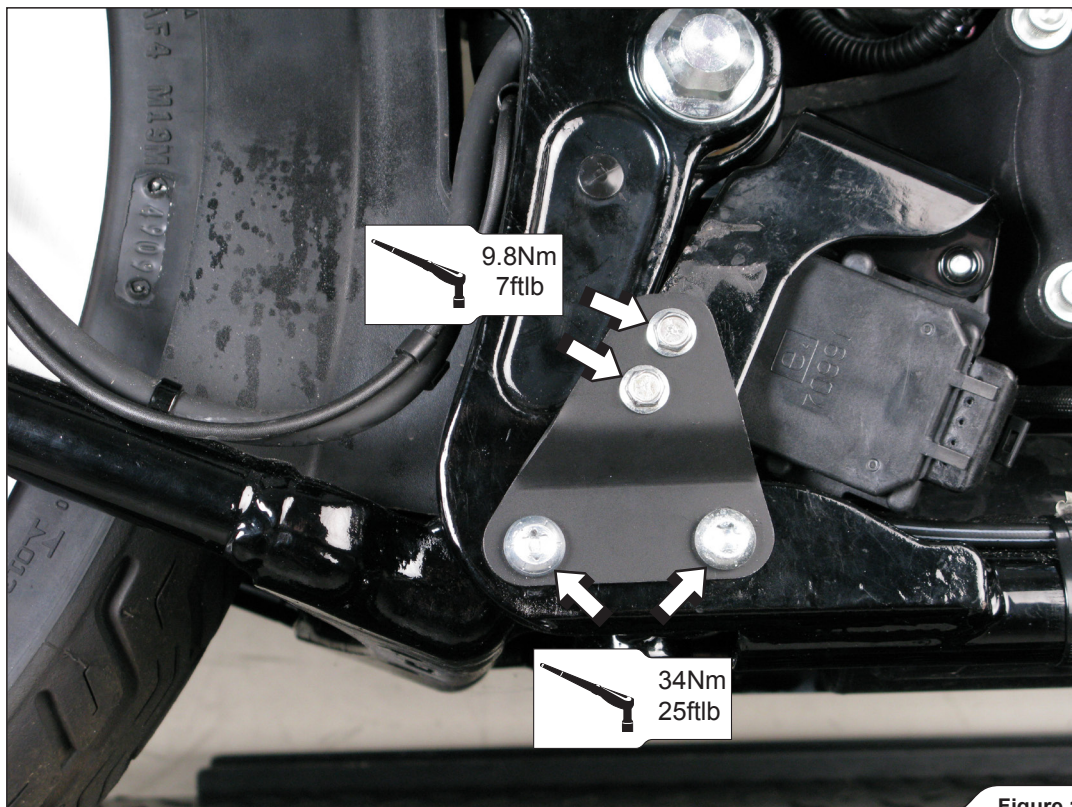


Figure 1

2. Install the correct muffler bracket for your motorcycle model from Akrapovič installation kit onto the transmission housing, using original bolts (Figure 2).

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

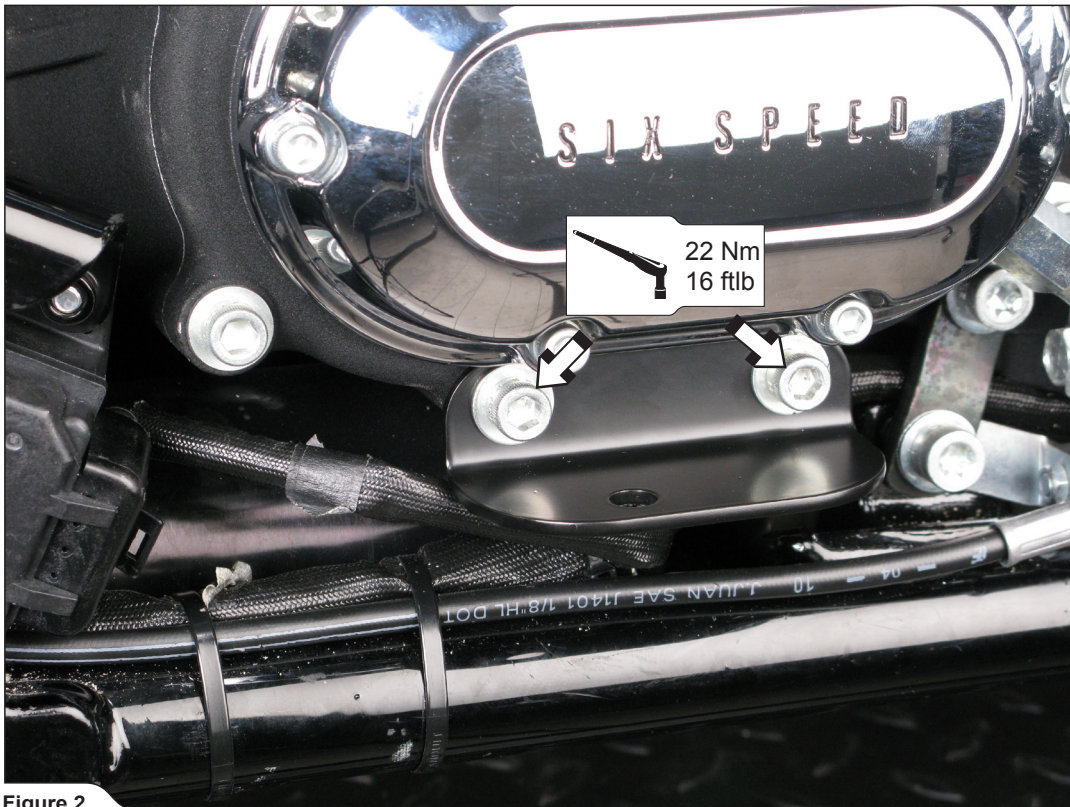


Figure 2

3. Assemble the front header, rear header, collector and clamps as shown (Figure 3).

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

! **WARNING:** do not tighten the clamps yet! Leave them well undone!

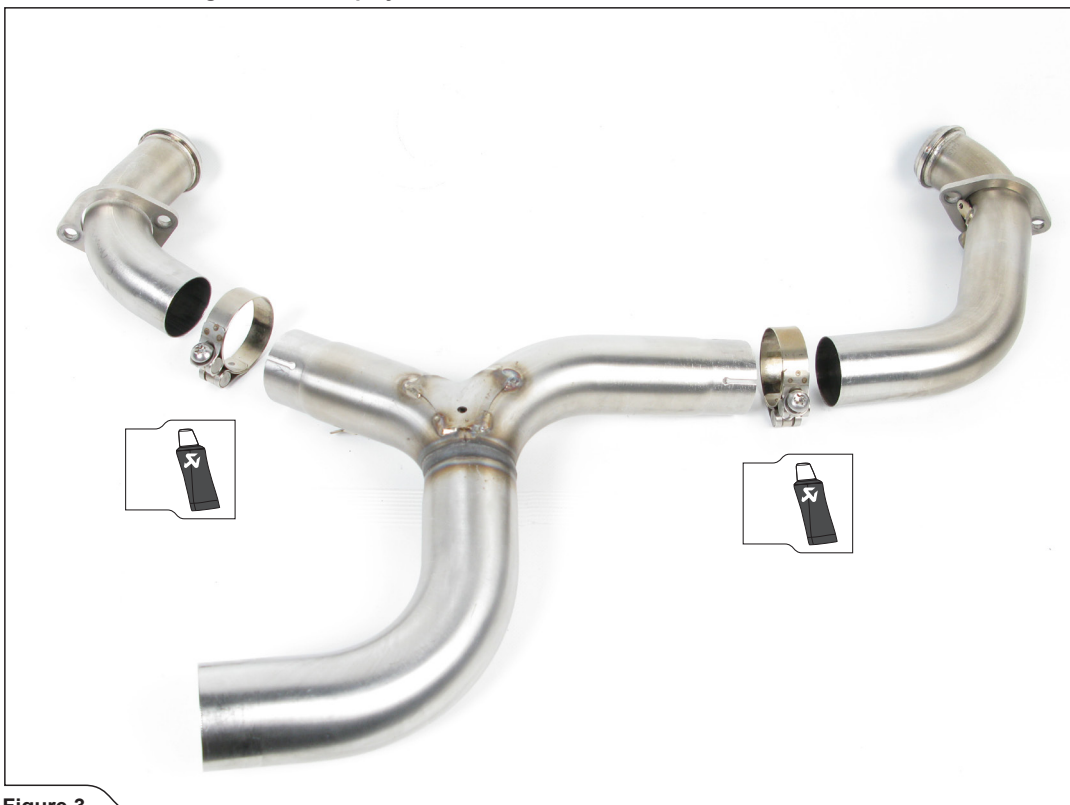


Figure 3

- Carefully attach the assembled pipes onto the motorcycle and hand tighten the headers onto the cylinder heads, using original nuts (**Figure 4**).

! **CAUTION:** we advise, that you use new original gaskets in the exhaust ports!

! **WARNING:** hand tighten the flanges and clamps only! Do not fully tighten them yet!



Figure 4

- Tighten the lambda sensors into the front header and collector (Softail models) or both sensors into the collector (Touring models) (**Figure 5**).

! **WARNING:** make sure, not to damage the sensors or wiring harnesses!

! **WARNING:** check your motorcycle model manual for sensors' tightening torque!



Figure 5

6. Correctly assemble the clamp onto the muffler's inlet (**Figure 6**).
! **WARNING:** use anti-seize copper paste on clamp bolt threads!



Figure 6

7. Slide the muffler onto the collector. Align the muffler and attach it to the muffler's bracket, using bolt, washers and nut from Akrapovič installation kit (**Figure 7**).
! **WARNING:** make sure, not to damage or scratch the bracket, muffler or any other part of the motorcycle!

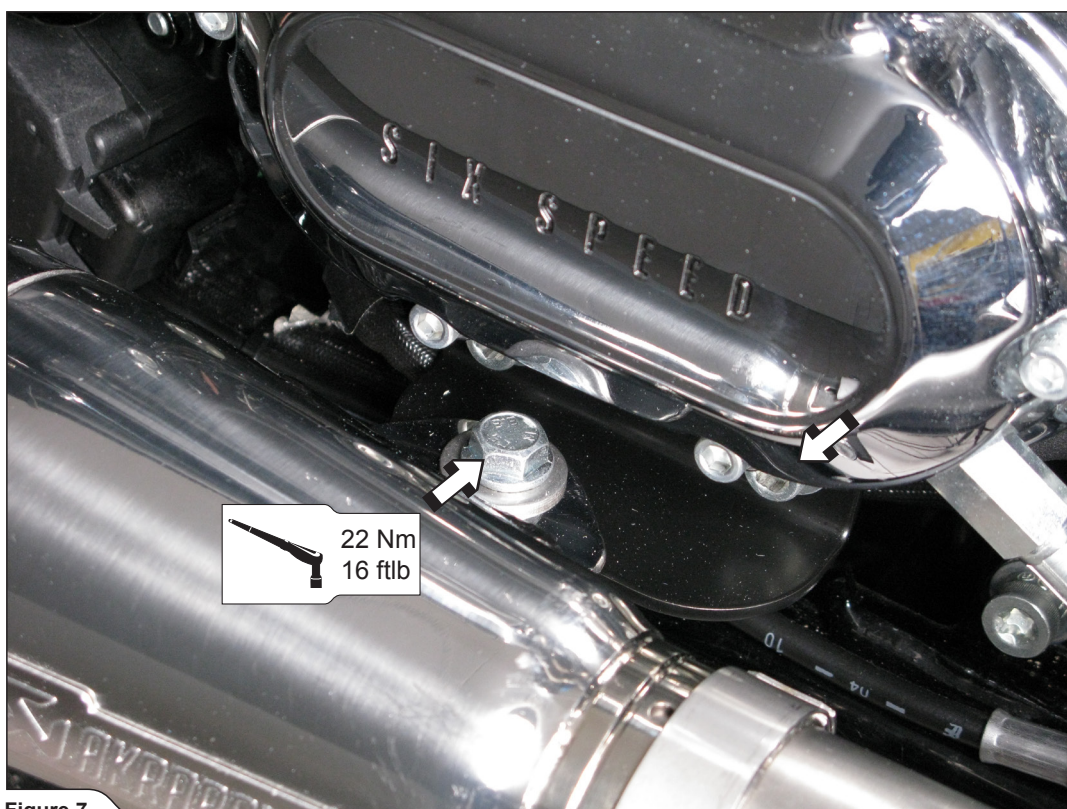


Figure 7

- Align and set the headers and collector. Tighten both headers' flanges to the specified torque (**Figure 8**).
- ! CAUTION:** before tightening the flanges make sure, that pipes don't touch the engine or any other part of the motorcycle!

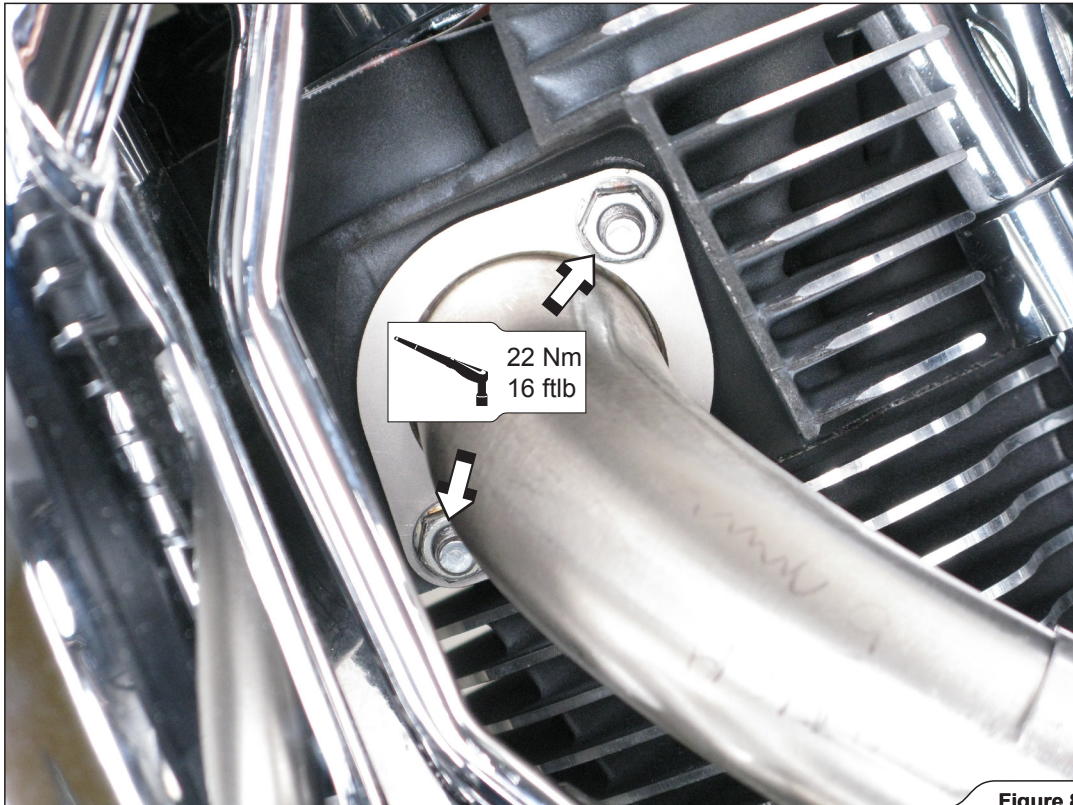


Figure 8

- Tighten the clamp at the collector - muffler joint (**Figure 9**).

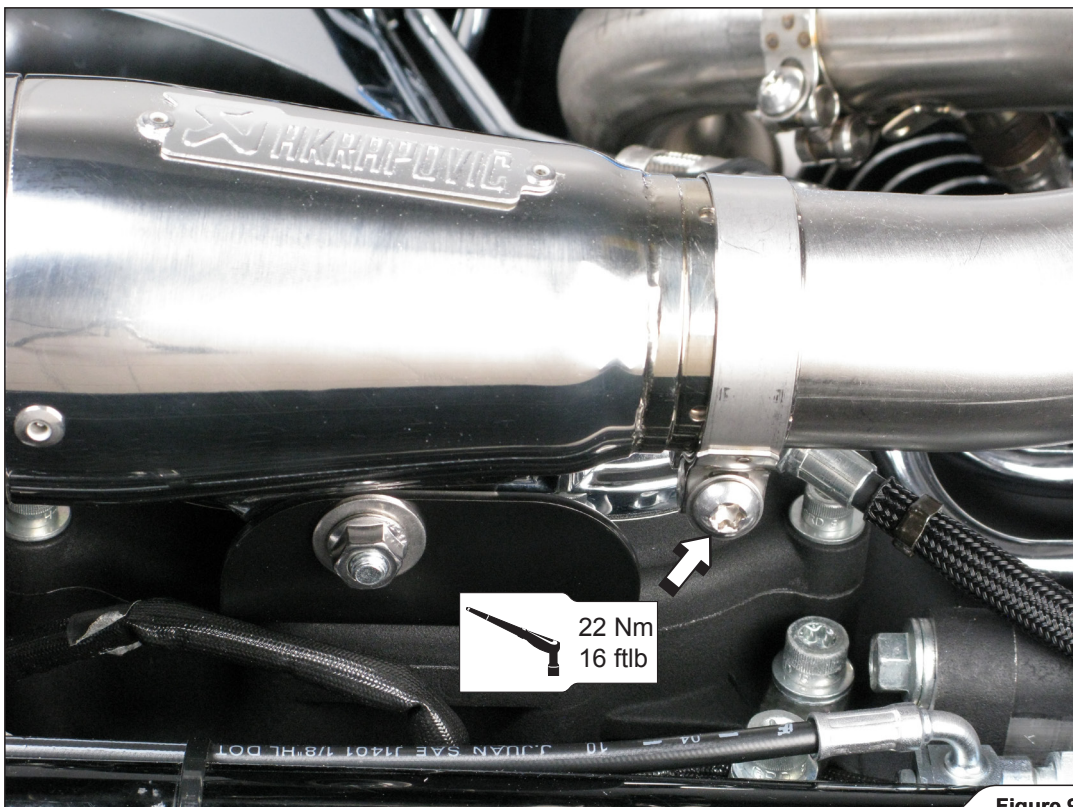


Figure 9

10. Correctly assemble the tape clamps (mark 32-50) from Akrapovič installation kit onto the headers' heat shields, as shown (Figure 10).

! CAUTION: leave the tape clamps unscrewed!



Figure 10

11. Correctly attach both heat shields onto the headers, align them in respect to the pipes and tighten the tape clamps and clamps at the headers - collector joints to the specified torques (Figure 11, 12).

! CAUTION: make sure that lower heat shields' bracket are put between pipes and headers - collector joints' clamps correctly!

! WARNING: make sure, not to damage or scratch the heat shields or any other part of the motorcycle!

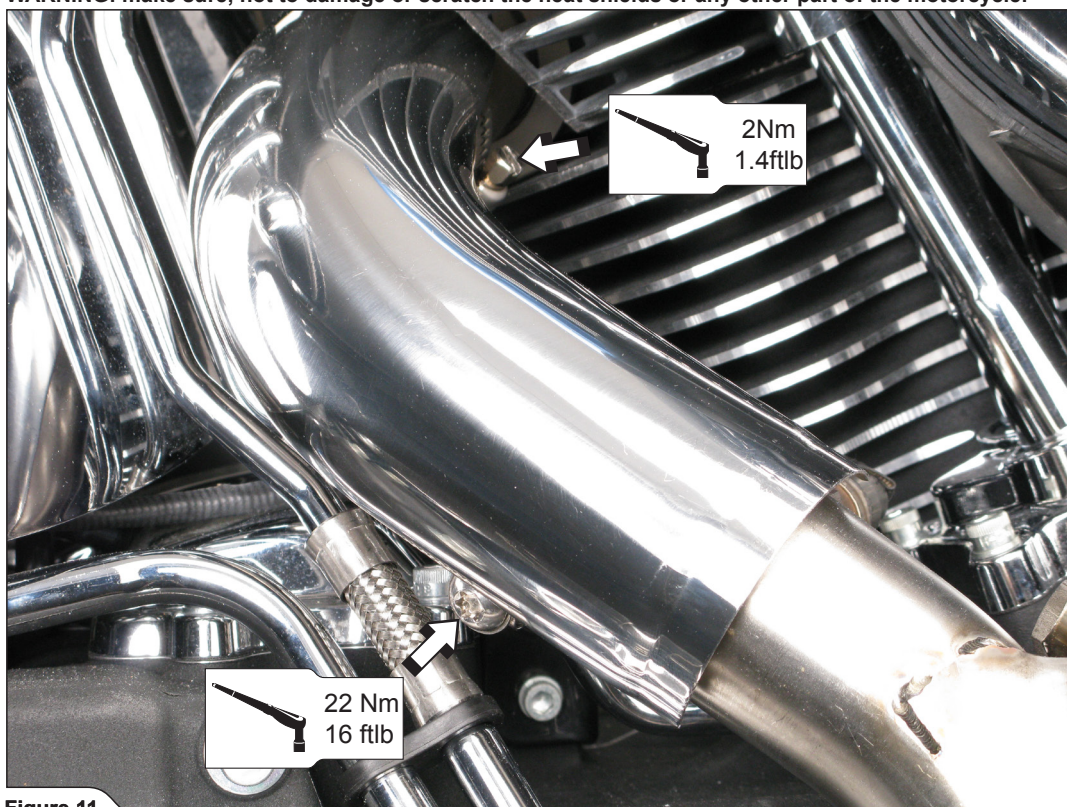


Figure 11

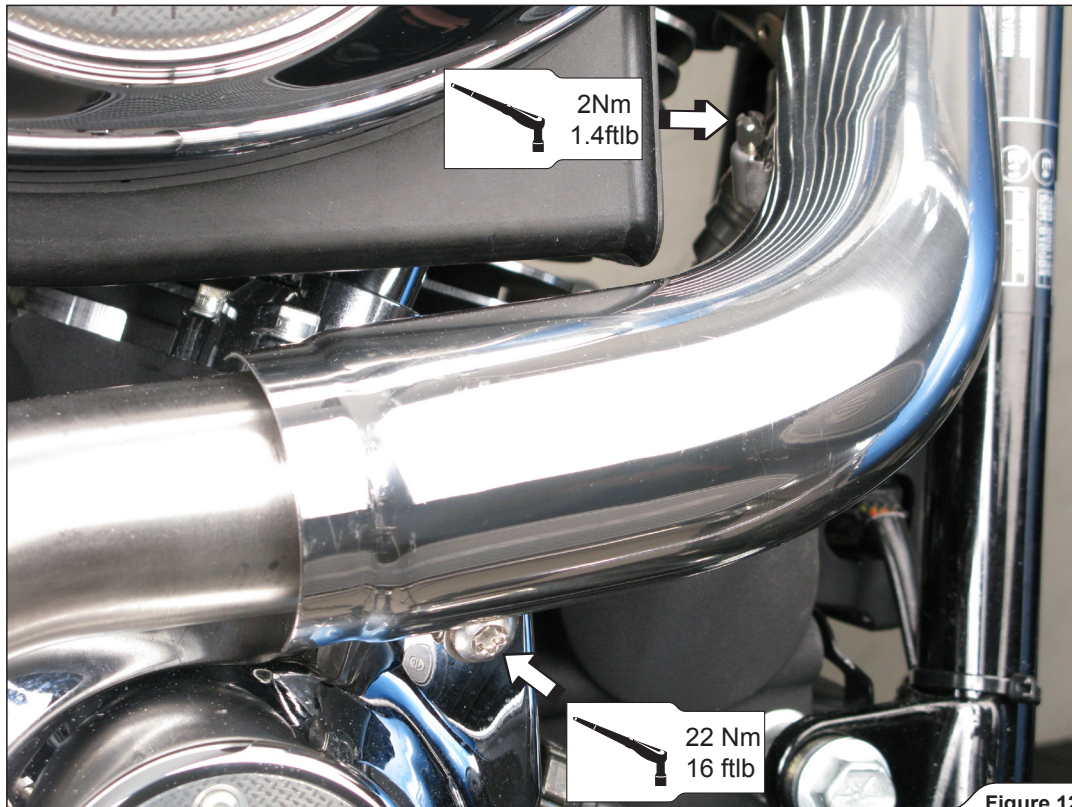


Figure 12

12. Correctly assemble the tape clamps (mark 32-50) from Akrapovič installation kit onto the collectors' heat shield, as shown (Figure 13).

! CAUTION: leave the tape clamps unscrewed!



Figure 13

13. Correctly put the three tape clamps (mark 40-60) from Akrapovič installation kit onto the collector, as shown (Figure 14).

! **CAUTION:** leave the tape clamps loosened!



Figure 14

14. Correctly attach the heat shield onto the collector and align it in respect to the pipes and headers' heat shields. Tighten the two upper tape clamps (mark 32-50), slide the lower tape clamp (mark 40-60) over the lower heat shield's bracket and tighten the clamp (Figure 15, 16).

! **WARNING:** make sure, not to damage or scratch the heat shields or any other part of the motorcycle!

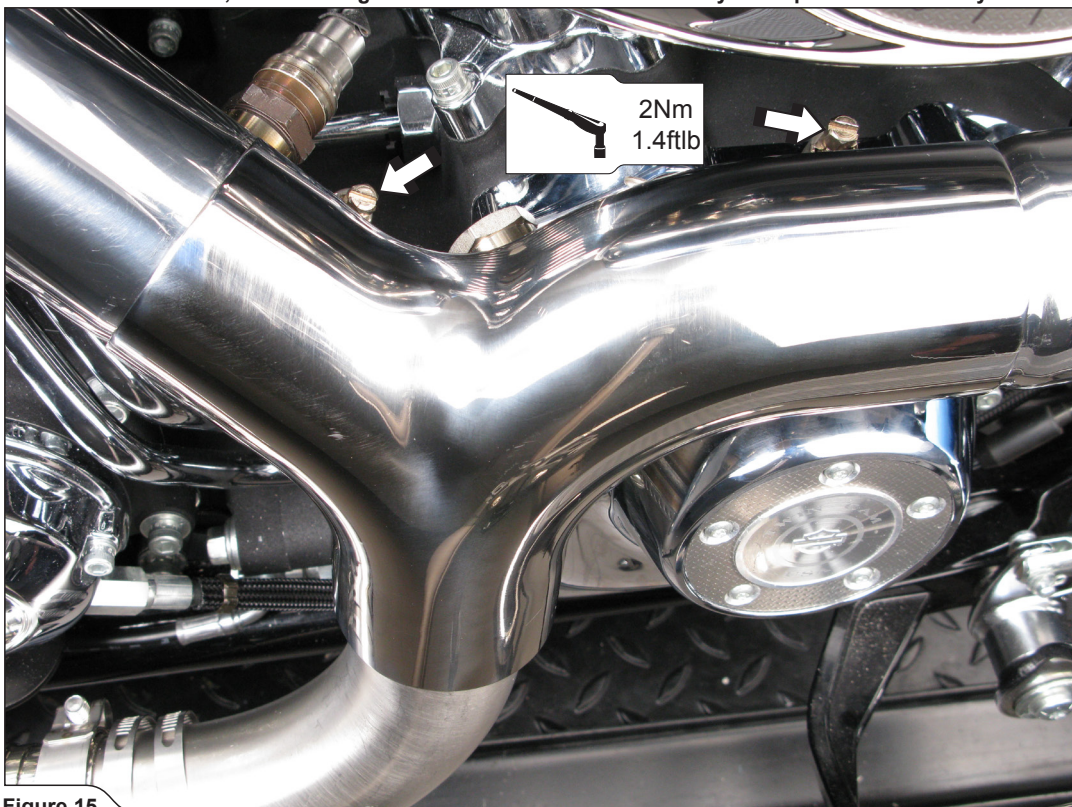


Figure 15

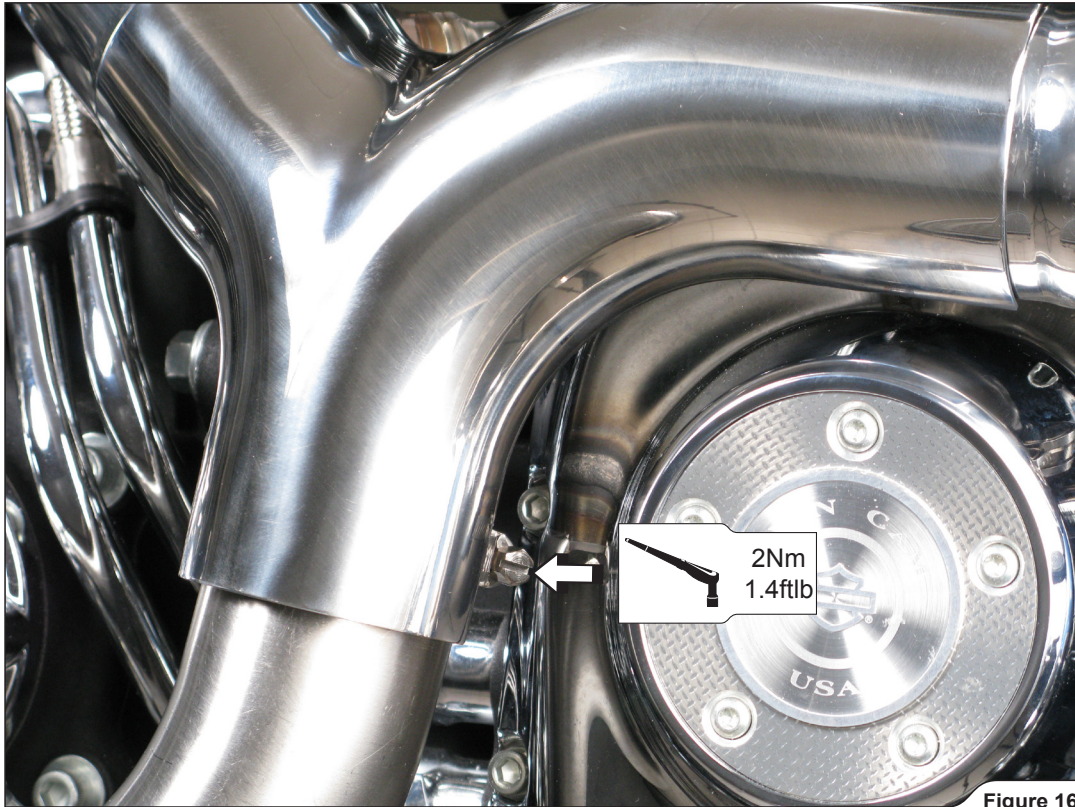


Figure 16

15. Correctly attach the lower heat shield onto the collector and align it in respect to the pipes, upper heat shield and muffler. Slide the two tape clamps (mark 40-60) over the heat shield's brackets and tighten the clamps (Figure 17).

! WARNING: make sure, not to damage or scratch the heat shields or any other part of the motorcycle!

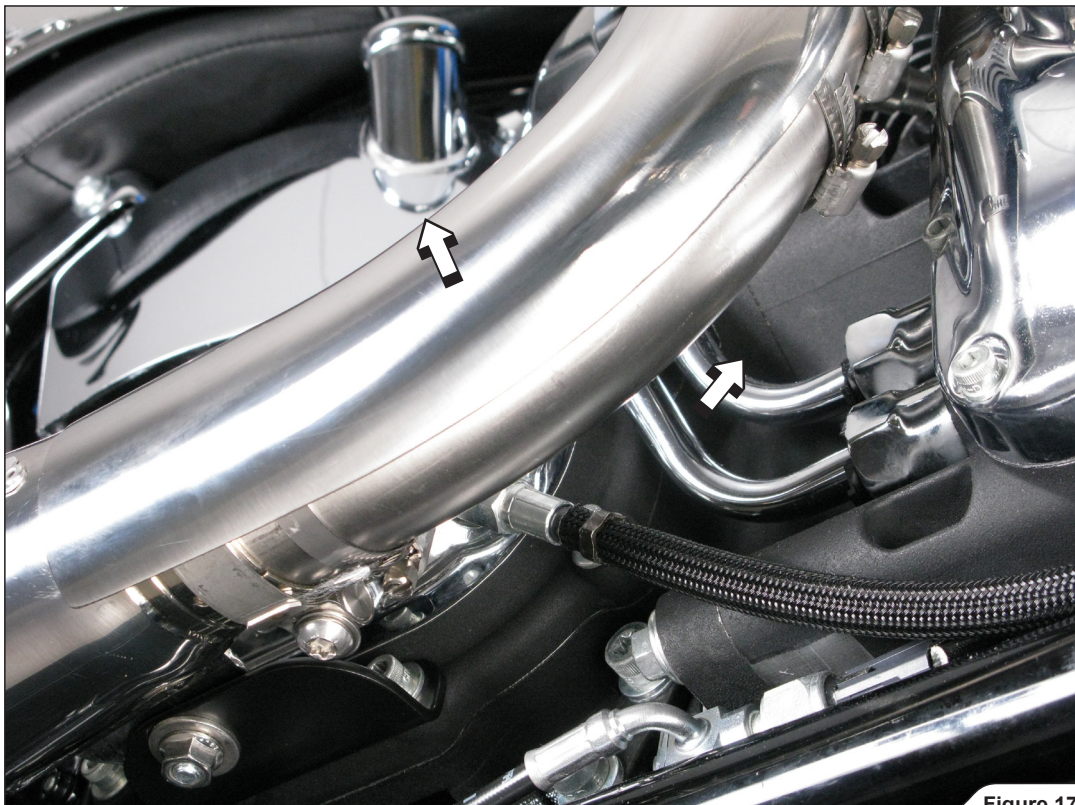


Figure 17

Final installation:

Thoroughly clean all grease spots on headers, heat shields and muffler; use a soft cloth sprayed with a contact cleaner (brake cleaner), 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 logo/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, mortemp powder coated or chrome plated 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.

