

Installation instructions

Akrapovič Exhaust System: **Open** for the **Harley-Davidson Sportster**



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 <u>installed by someone with sufficient knowledge</u> 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 <u>follow all installation instruction guidelines</u> 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.
- 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. <u>Before removing the original exhaust system</u> 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 <u>photographs and pictures</u> contained herein should serve as a guideline only and actual installation of the exhaust system may not correspond with the photographs and pictures entirely.
- 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:





x

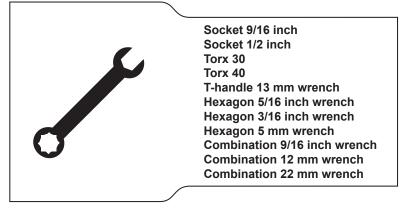
USE BOLT SEALANT; Apply 3 to 4 small drops of bolt sealant onto the cleaned and degreased threads before tightening the bolts. **WARNING! Avoid contact with skin, eyes and mucous membranes. Do not inhale fumes. Keep out of reach of children.**



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.



- 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 XL 883 SPORTSTER IRON 2010. THERE MAY BE SOME DIFFERENCES IN INSTALLATION PROCEDURES FOR OTHER SPORTSTER 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 AKRAPOVIC WARRANTY DOES NOT COVER DISCOLORATION OF ANY CHROME PRODUCTS.

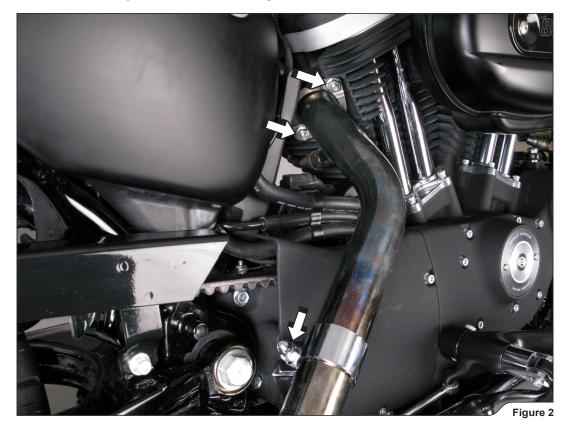


REMOVAL OF ORIGINAL EXHAUST SYSTEM:

- 1. Put the motorcycle on a side stand, we recommend a center stand.
- 2. Unscrew the heat shields' tape clamps on both header pipes (Figure 1). Carefully remove both heat shields off the header pipes.



- 3. Unscrew the rear header pipe's bracket and un-tighten headers' flanges on both header pipes (Figure 2).
- WARNING: do not fully unscrew the headers' flanges!



4. Untighten both muffler-header connection clamps, unscrew four mufflers' bracket bolts and remove the mufflers off the motorcycle (Figure 3).



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

- 5. Undo the lambda sensors' electrical connectors at front and rear headers (Figure 4).
- WARNING: make sure, not to damage the connectors or wiring harnesses! !

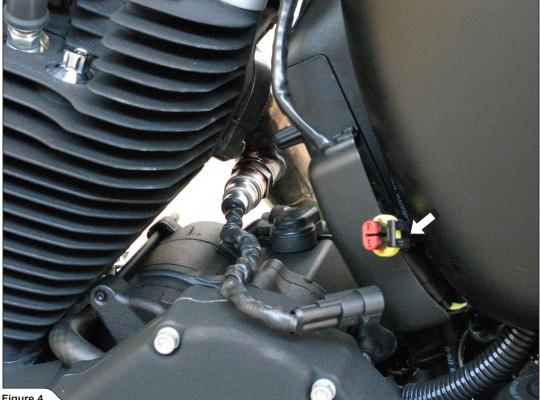


Figure 4



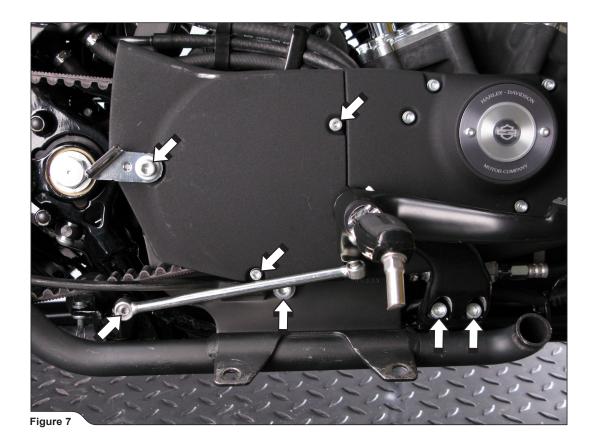
- 6. Fully unscrew the headers' flanges on both header pipes, and remove the headers off the motorcycle (Figure 5).
- WARNING: make sure, not to damage any part of the motorcycle during this process!



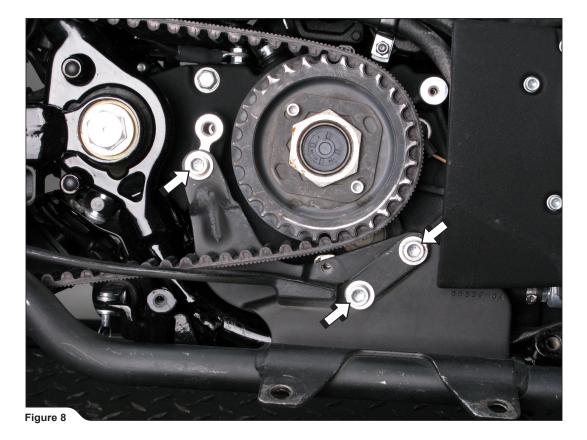
- 7. Unscrew both lambda sensors out of the headers (Figure 6).
- WARNING: make sure, not to damage the sensors!



- 8. Unscrew the marked rear brake push rod ball joint, the foot peg mount and the belt drive sprocket cover (Figure 7).
- WARNING: make sure, not to damage any part of the motorcycle during this process!

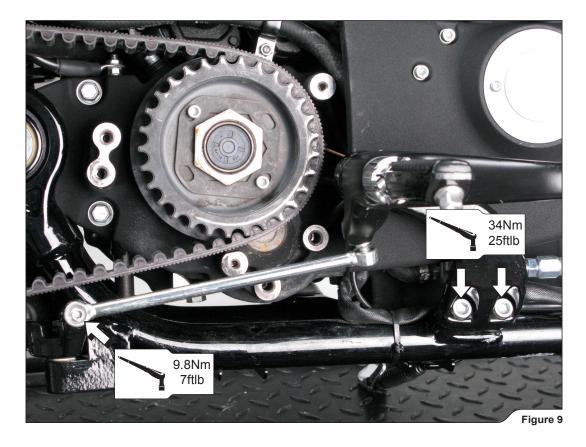


- 9. Unscrew the three marked bolts and remove the original mufflers' bracket off the motorcycle (Figure 8).
- WARNING: make sure, not to damage any part of the motorcycle during this process!

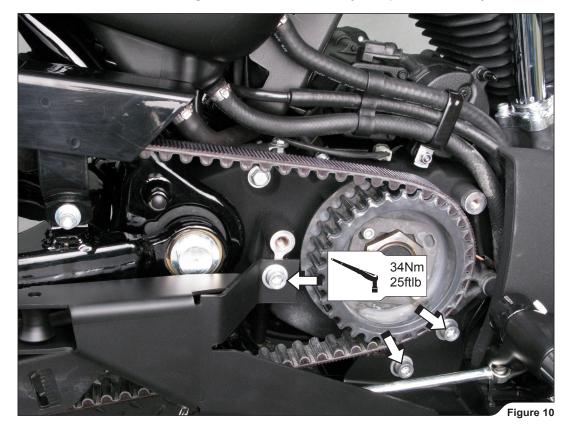


INSTALLATION OF THE AKRAPOVIČ EXHAUST SYSTEM:

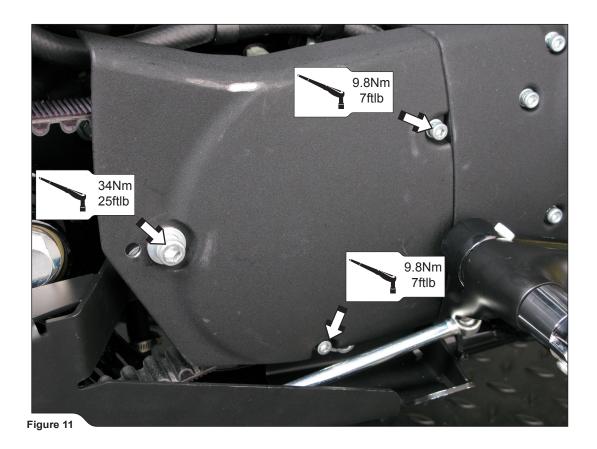
- 1. Reinstall the rear brake push rod ball joint and the foot peg mount (Figure 9).
- ! WARNING: use thread lock compound on ball joint' bolt threads!



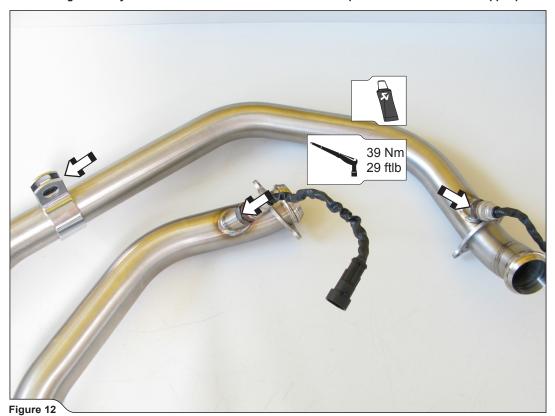
- 2. Install the Akrapovič mufflers' bracket, using original bolts (Figure 10).
- WARNING: make sure, not to damage or scratch the bracket or any other part of the motorcycle!



- 3. Reinstall the belt drive sprocket cover (Figure 11).
- WARNING: make sure, not to damage or scratch the cover or any other part of the motorcycle!



4. Tighten the original lambda sensors into the header pipes and correctly slide the original header clamp onto the front header (Figure 12).



WARNING: grease only the threads of the lambda sensors with Akrapovič anti-seize lead-free copper paste!



- 5. Hand tighten the headers onto the motorcycle, using original nuts, washer and clamp bolt with nut (Figure 13, 14).
- CAUTION: we advise, that you use new original gaskets in the exhaust ports!
- WARNING: use anti-seize copper paste on flange nuts and clamp bolt threads!
- WARNING: hand tighten the flanges and clamp only! Do not fully tighten them yet!





- 6. Correctly assemble the clamps onto the mufflers' inlets (Figure 15).
- WARNING: use anti-seize copper paste on clamp bolts threads!

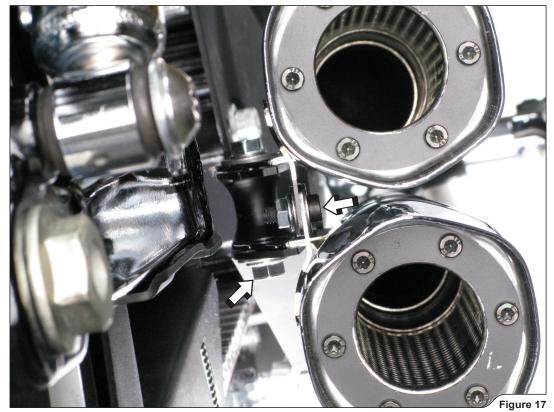


Slide the lower muffler onto the front header (Figure 16).
 WARNING: make sure, that muffler's holder is inserted between bracket and spacer!

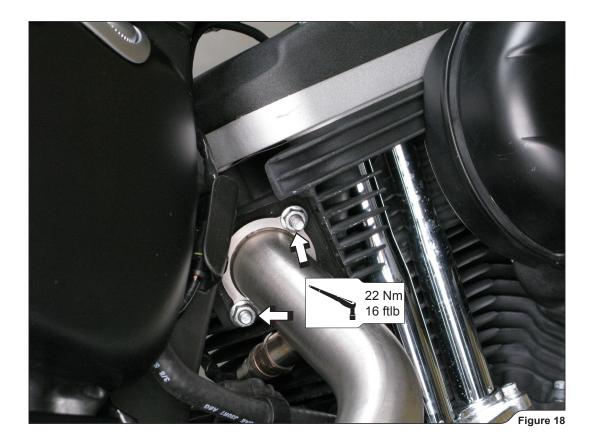




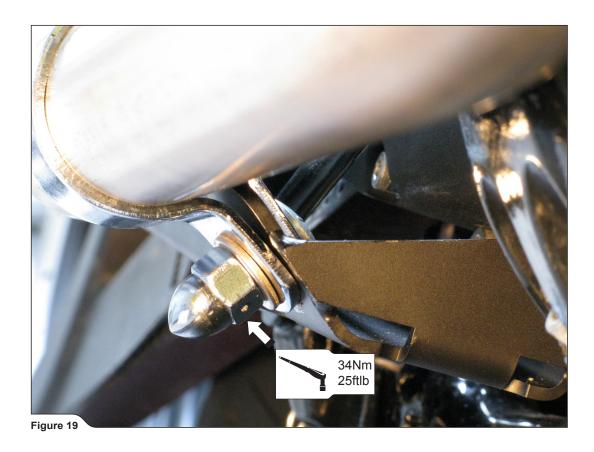
- 8. Slide the upper muffler onto the rear header. Align the mufflers and hand tighten the mufflers' connection bolt and bracket bolt (Figure 17). Use bolts, washers and nuts from installation kit.
- WARNING: make sure, not to damage or scratch the bracket, mufflers or any other part of the motorcycle!
- WARNING: hand tighten the bracket and connection bolts only! Do not fully tighten them yet!



- 9. Tighten both headers' flanges to the specified torque (Figure 18).
- WARNING: make sure, not to damage or scratch any part of the motorcycle during this process!



10. Tighten the header's clamp to the specified torque (Figure 19).

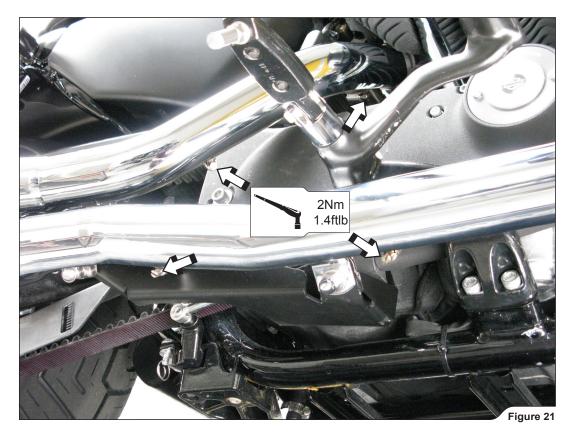


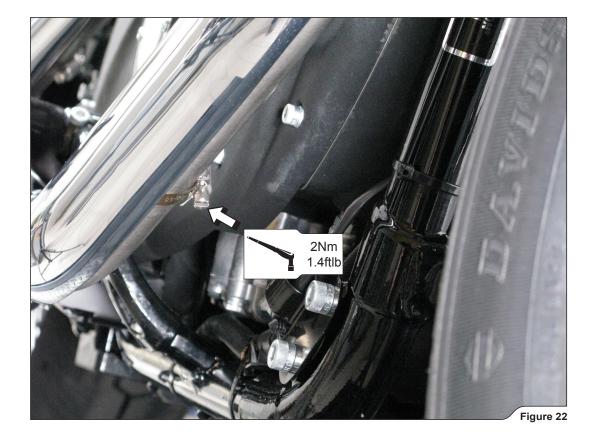
11. Correctly put on the tape clamps onto the Akrapovič heat shields from installation kit (Figure 20).



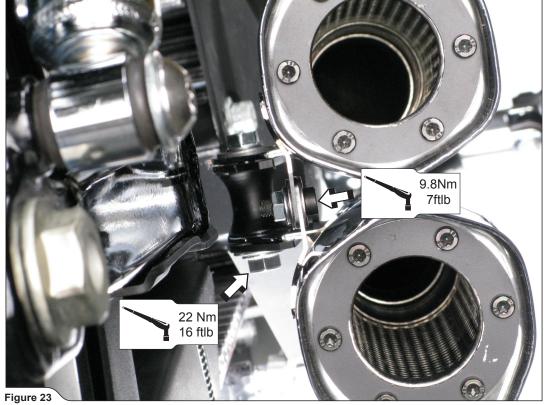


- 12. Assemble the heat shields onto the headers. Align the heat shields in respect to the header tubes and tighten all the tape clamps (Figure 21, 22).
- WARNING: make sure, not to damage any part of the motorcycle or exhaust system during this process!

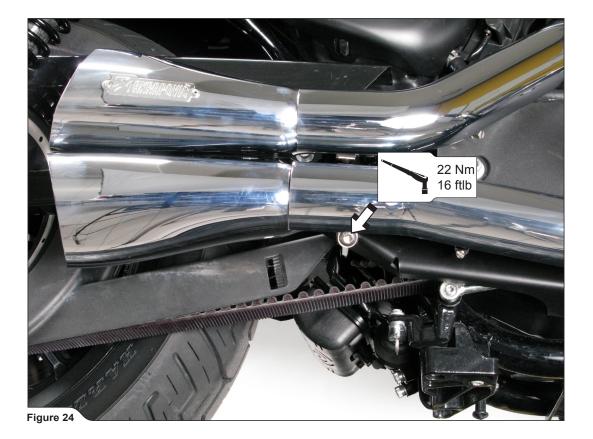




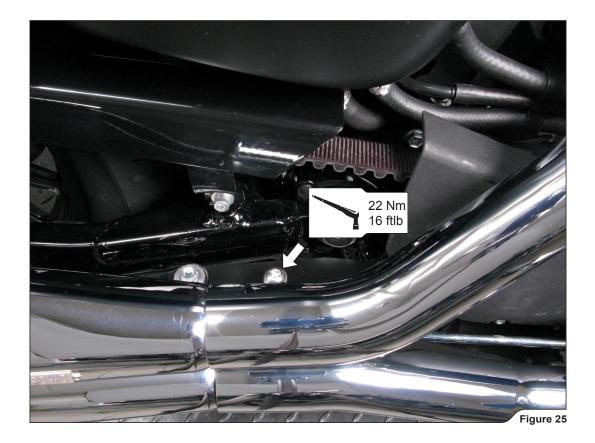
- 13. Set the mufflers (length wise) and tighten the mufflers' connection bolt and bracket bolt to the specified torques (Figure 23).
- WARNING: make sure, not to damage or scratch the bracket, mufflers or any other part of the motorcycle!
- WARNING: there must be at least 1.5 mm (0.06 inch) gap at any point between Akrapovič mufflers and muffler heat shields!



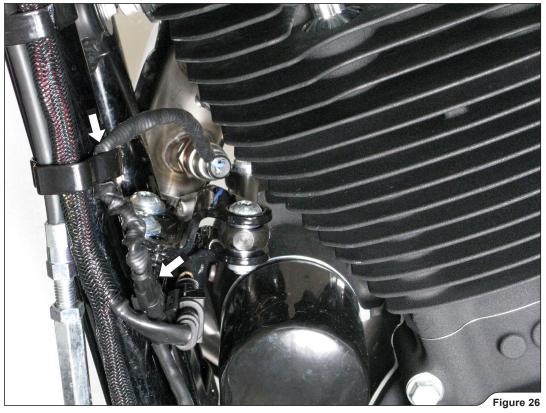
- 14. Tighten the mufflers' inlet clamps to the specified torque (Figure 24, 25).
- WARNING: make sure, not to damage or scratch any part of the motorcycle!







- 15. Reconnect the front and rear lambda sensors' electrical connectors and secure the wiring harnesses (Figure 26).
- WARNING: make sure, not to damage the connectors or wiring harnesses!
- WARNING: secure the wiring harnesses in such a way, they don't touch any hot or moving parts!



Final installation:

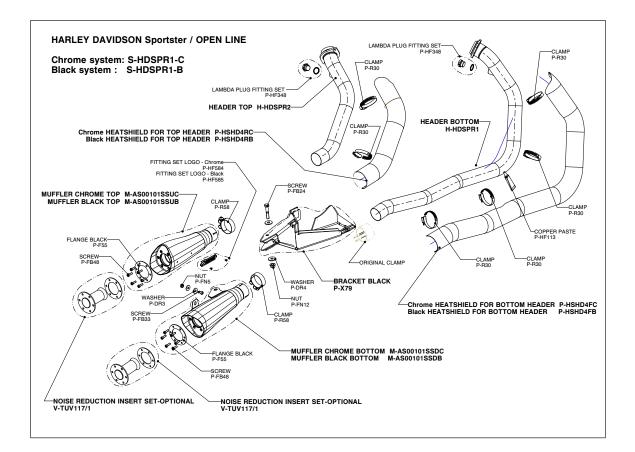
Thoroughly clean all grease spots on headers, heat shields and mufflers; use a soft cloth sprayed with a contact cleaner (brake cleaner), then wipe with a soft dry cloth.

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 dismounted 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:

- 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.





www.akrapovic.com