



Installation instructions

Akrapovič Exhaust System:

Optional Valve Set

for the

Harley-Davidson

models:

FLSTC Heritage Softail Classic

FXSTB Night Train

FXSTC Custom

FXST Standard



503221

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 7/16 inch
Socket 9/16 inch
Socket 3/8 inch
Socket 1/2 inch
Socket 13 mm
Torx 40
Torx 25
Hexagon 3/16 inch wrench
Combination 5/16 inch wrench
Combination 8 mm wrench
Combination 10 mm wrench
Flat screwdriver
Cutting nippers



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 HERITAGE SOFTAIL CLASSIC 2010. THERE MAY BE SOME DIFFERENCES IN INSTALLATION PROCEDURES FOR OTHER SOFTAIL 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.

INSTALLATION OF THE AKRAPOVIČ OPTIONAL VALVE SET:

1. Remove the Akrapovič Slip-On exhaust system off the motorcycle in reverse order, from the order in which it was installed; check the Slip-On exhaust system installation manual for details.
2. Unscrew the marked screw and partially remove the coil cover (**Figure 1**).

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

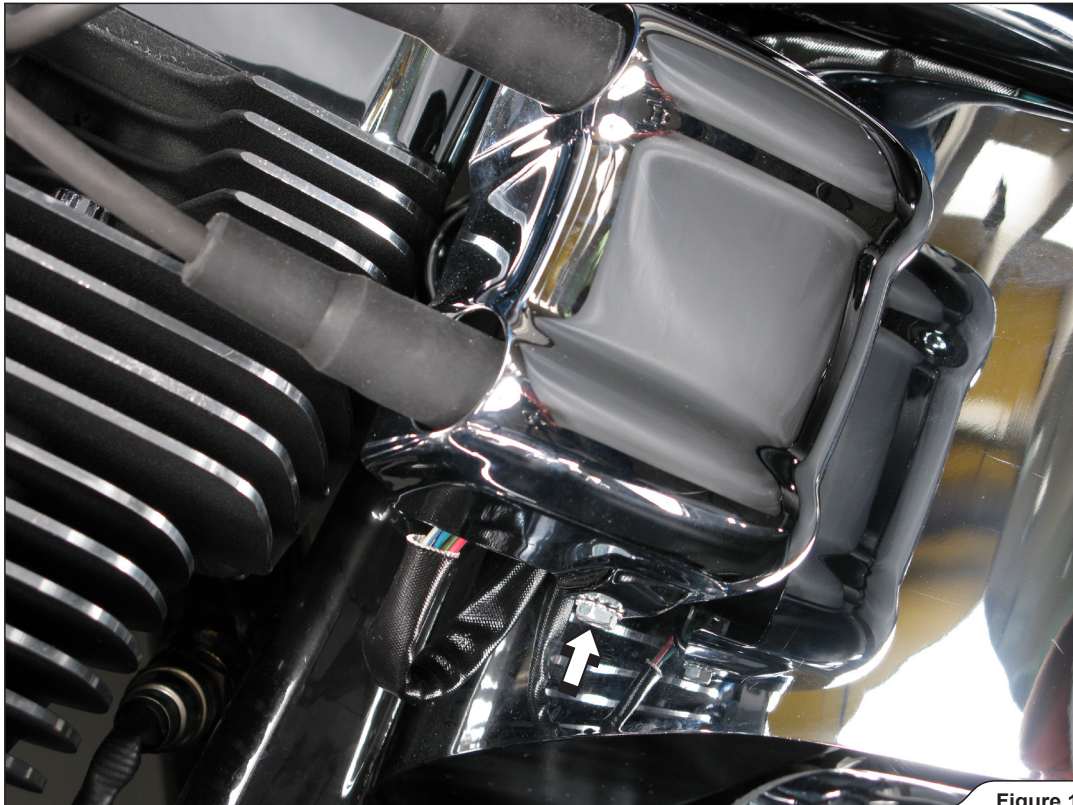


Figure 1

3. Unscrew the marked coil bolts (**Figure 2**).

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

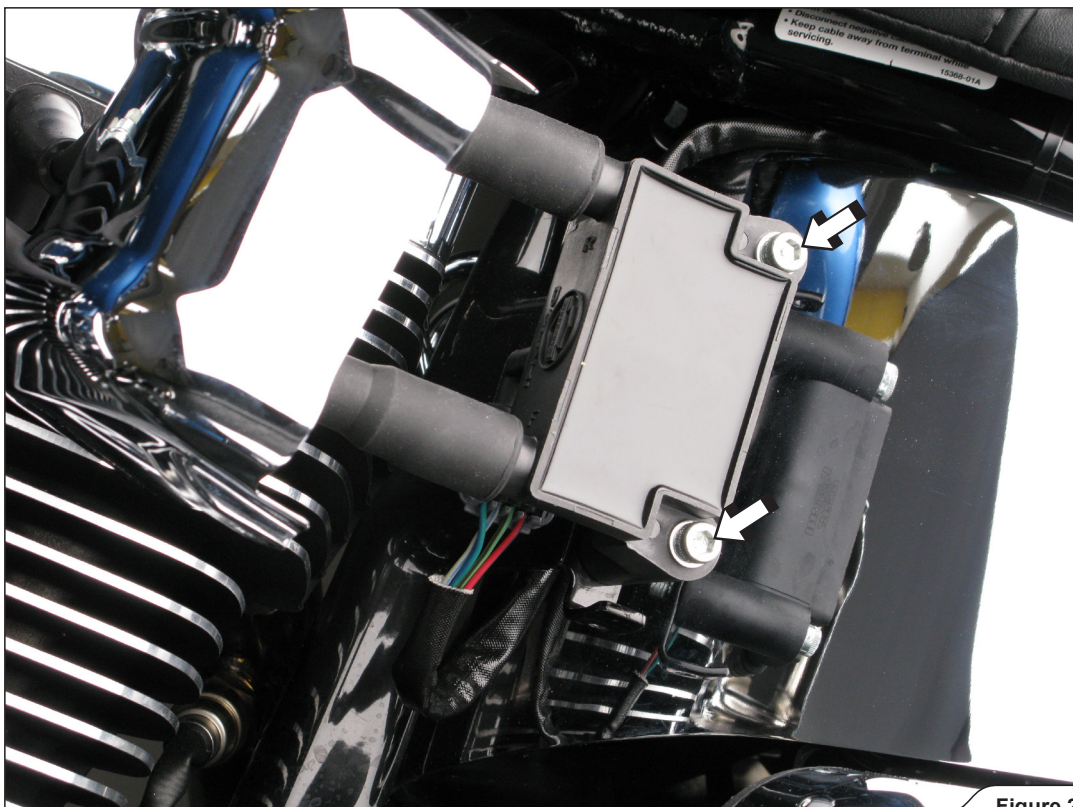


Figure 2

4. Attach the valve switch assembly behind the coil, retighten the coil bolts and fasten the coil cover (Figure 3, 4).
! **WARNING:** make sure, not to damage any part of the motorcycle during this process!

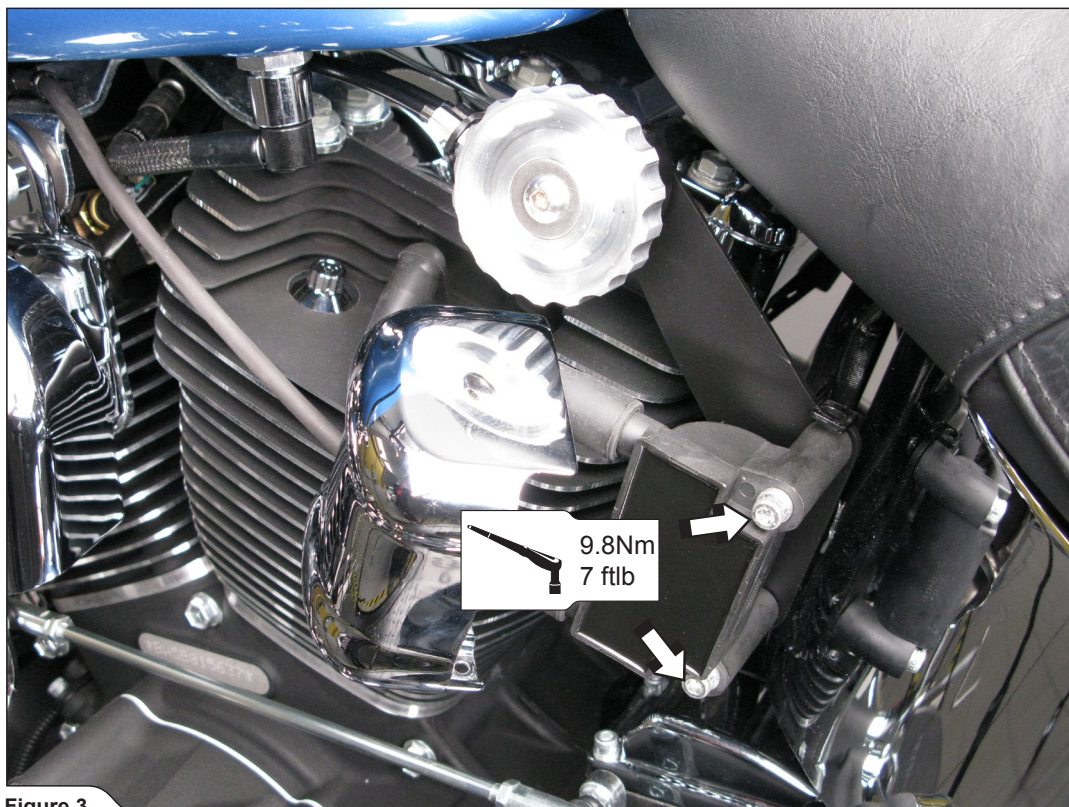


Figure 3

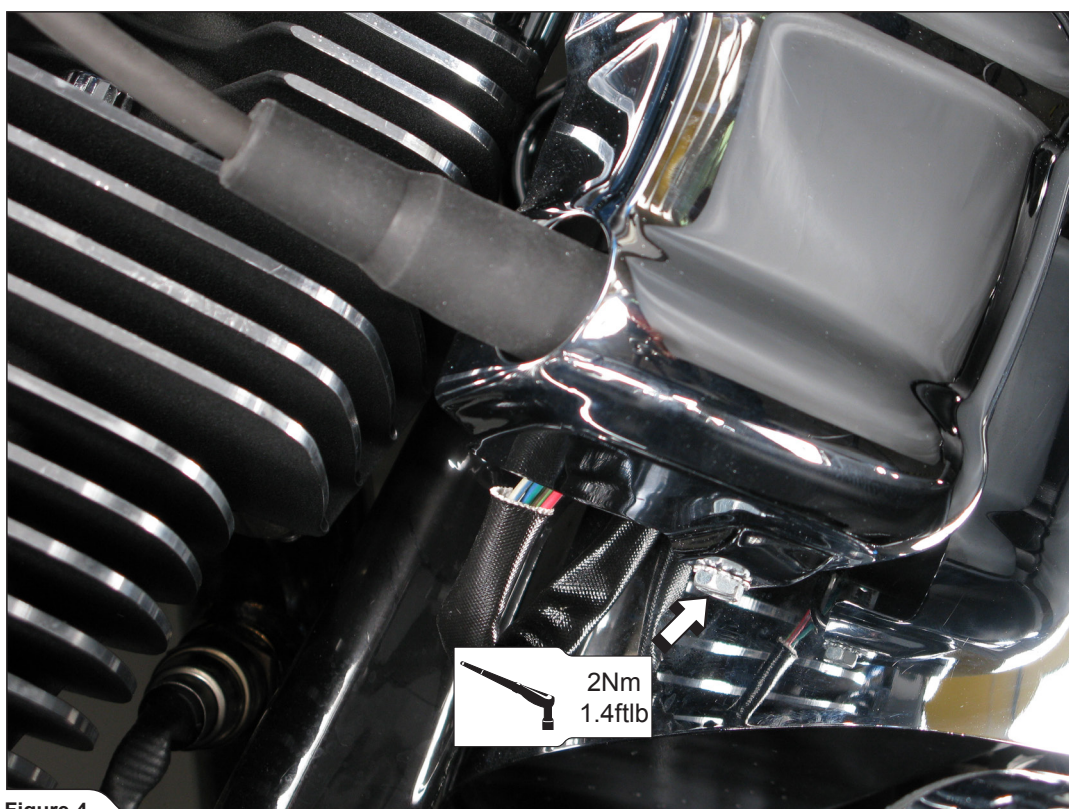


Figure 4

5. Direct and secure (use tie wraps from installation kit) the switch cables to the exhaust valves, as shown (Figure 5, 6, 7, 8, 9).

! **WARNING:** clip off the excess of the tie wraps!

! **WARNING:** make sure that cables are directed in such a way, they don't touch any hot or moving parts!

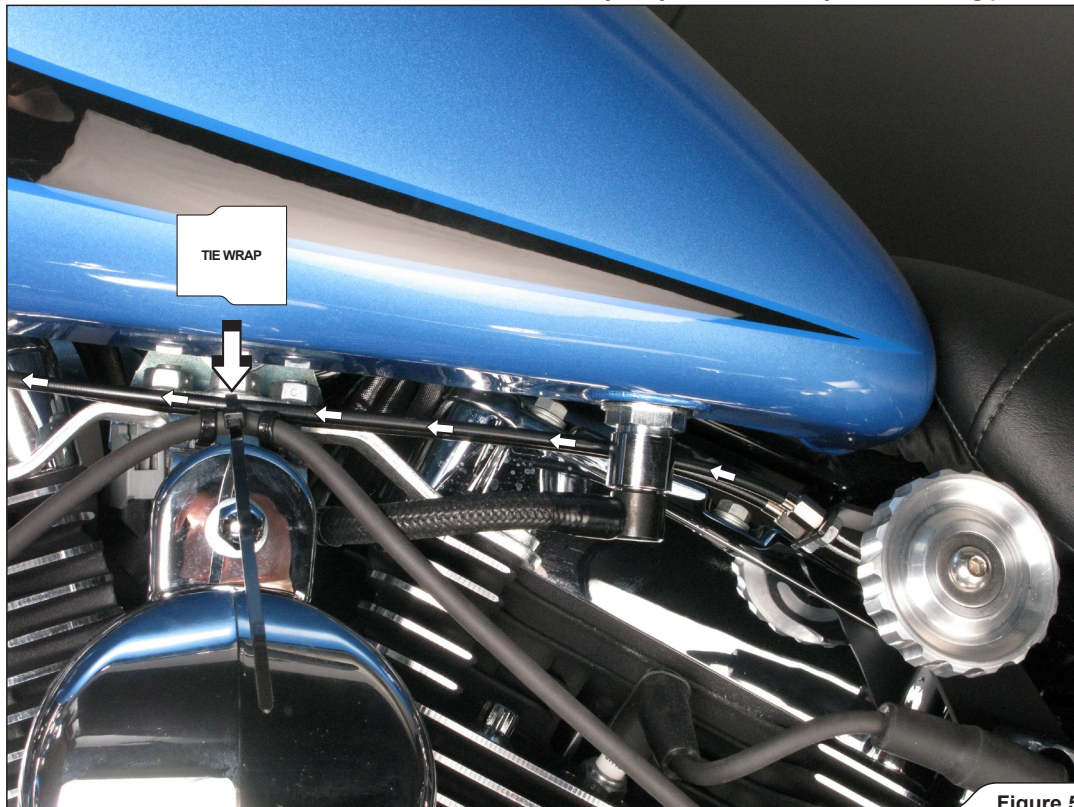


Figure 5



Figure 6

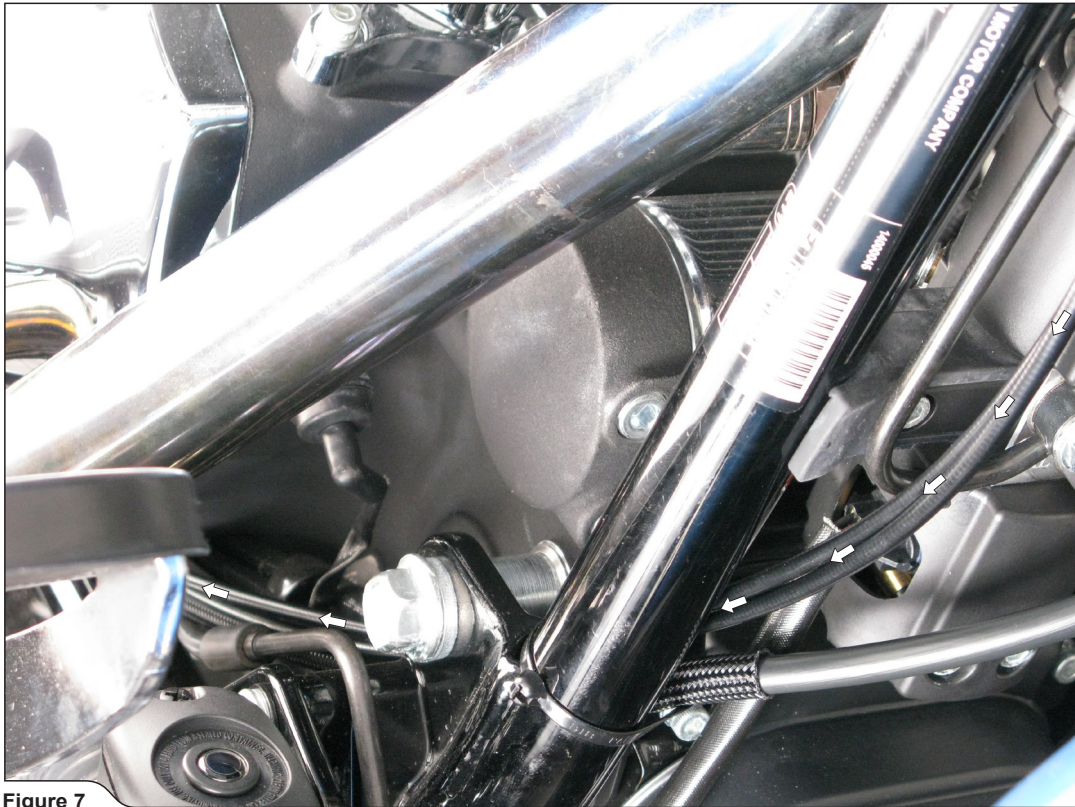


Figure 7

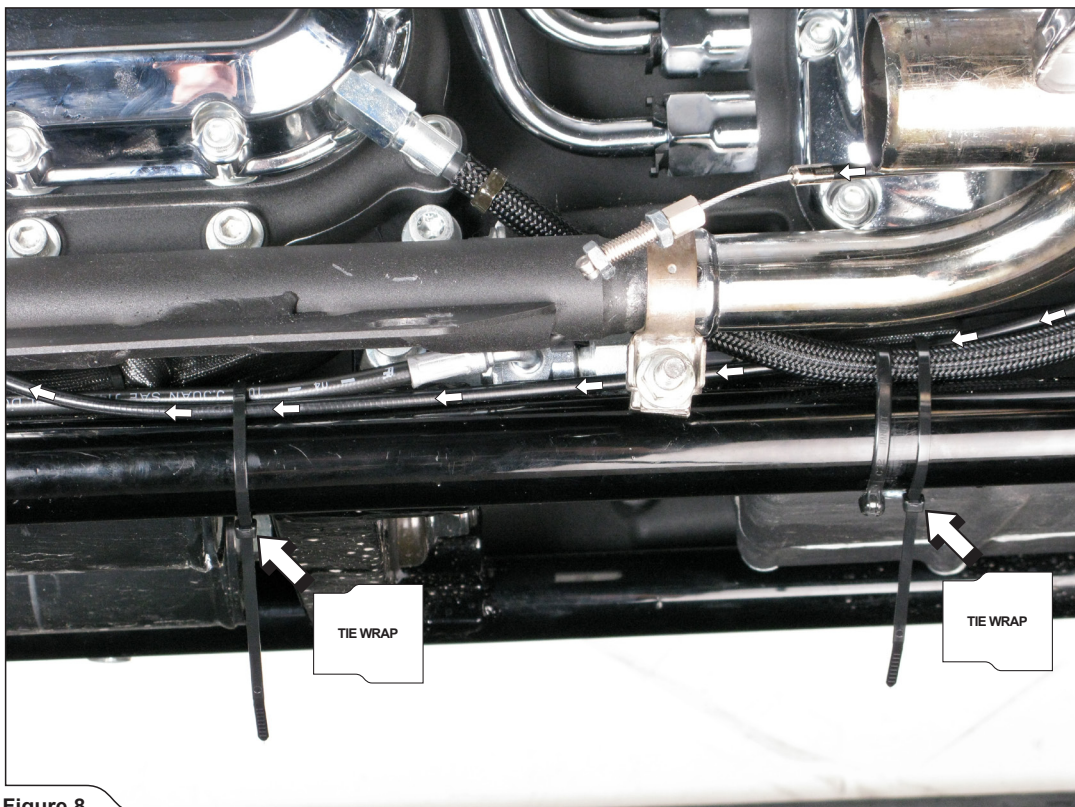


Figure 8

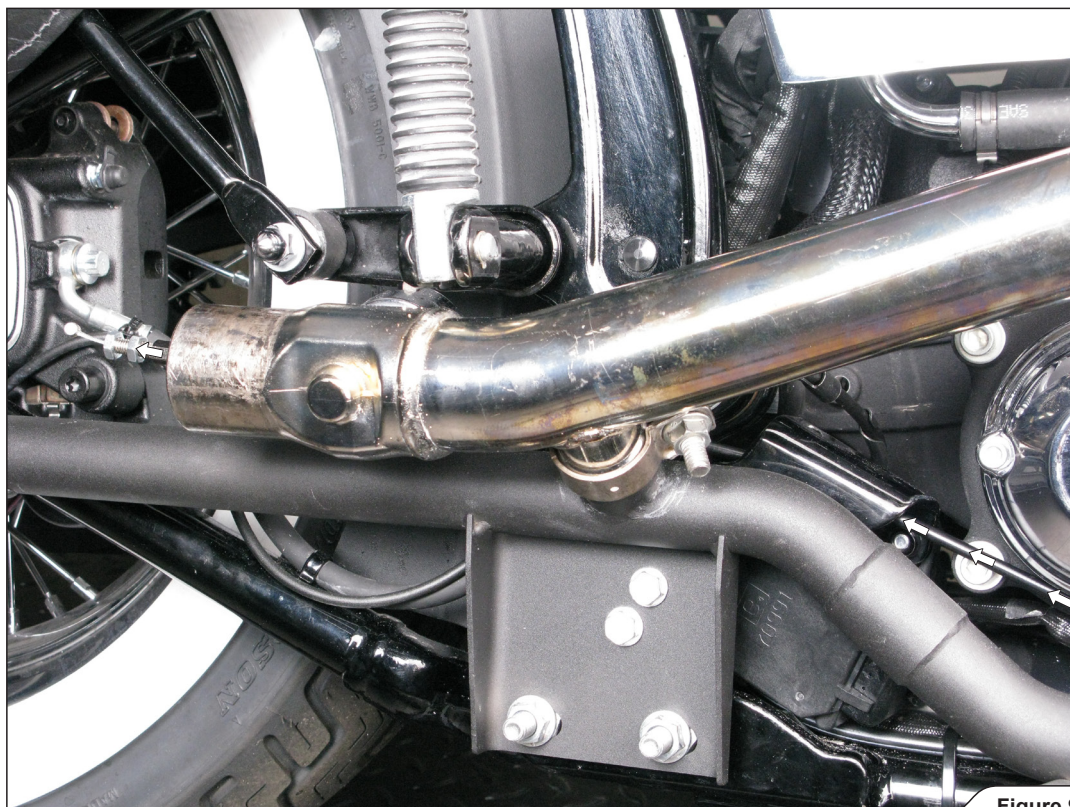


Figure 9

6. Correctly assemble the mufflers, link pipes with valves, clamps and heat shields, as shown (Figure 10, 11).

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

! **WARNING:** hand tighten all clamps only! Do not fully tighten them yet!



Figure 10

! **CAUTION:** temporarily remove both exhaust valve covers (Figure 11).



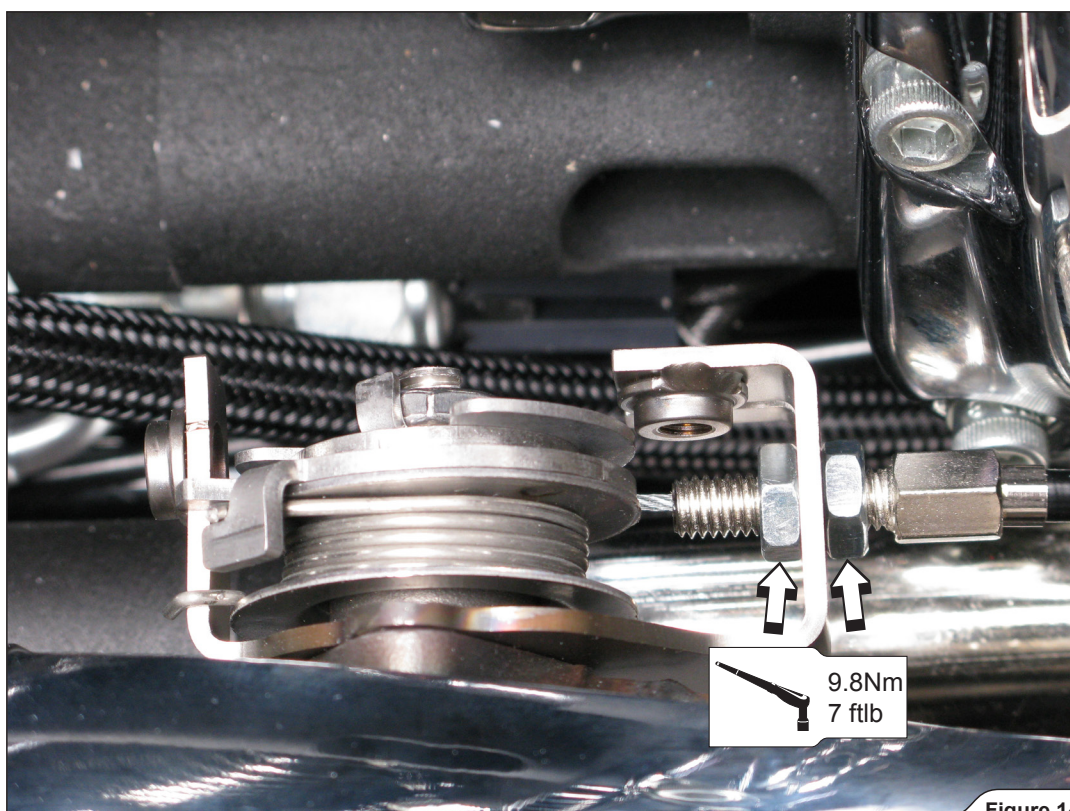
Figure 11

7. Install the assembled mufflers back onto the motorcycle; check the **Slip-On** exhaust system installation manual for details (Figure 12).



Figure 12

8. Attach the cables onto both valve wheels and adjust the cable adjusters in such a way, that when switch is in closed position, the valves are fully closed. Tighten the cable adjusters' nuts to the specified torque (**Figure 13, 14**).



9. Assemble both valve covers back onto exhaust valves (Figure 15, 16).

! **WARNING:** use Akrapovič bolt sealant on bolts' threads!



Figure 15

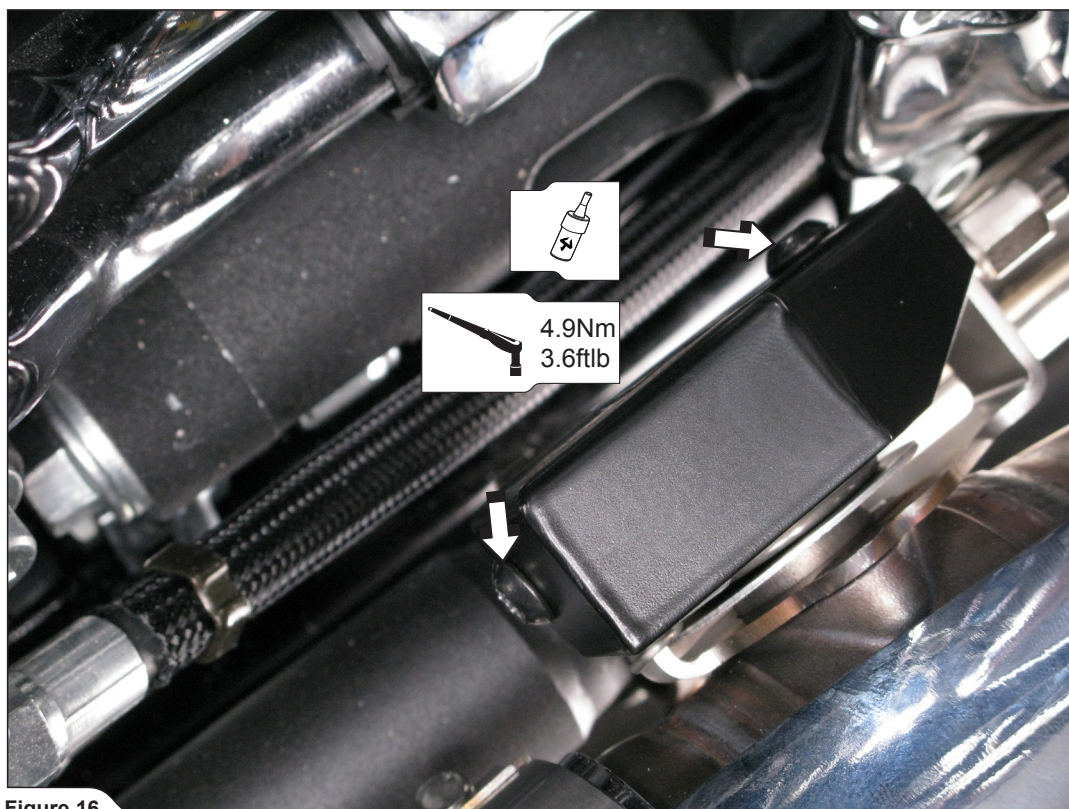


Figure 16

Final installation:

Install the original header pipes' heat shields back onto the motorcycle; check the **Slip-On** exhaust system installation manual for details.

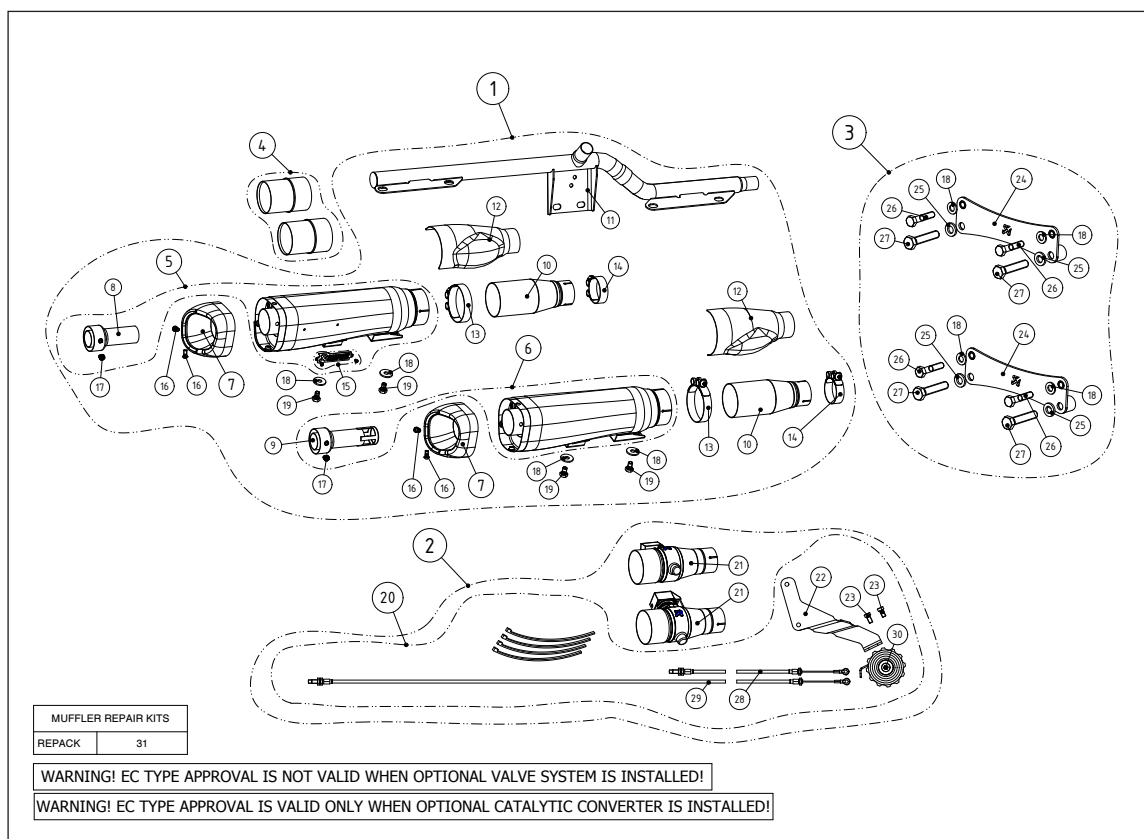
Thoroughly clean all grease spots on headers, link pipes, heat shields and mufflers; use a soft cloth sprayed with a contact cleaner (brake cleaner), then wipe with a soft dry cloth.

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 dismantled original 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, molybdenum 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.



No.	SALES CODE	DESCRIPTION	QTY.
1	S-HDST02-HC	Slip on	1
2	P-HDV6	Valve system - optional	1
3	P-X94/1	Saddle bag bracket set - optional	1
4	P-KAT-029	Catalytic converter - optional	1
5	M-HCBG00201SSRC	Muffler - rear	1
6	M-HCBG00101SSFC	Muffler - front	1
7	V-EC157	End cap	2
8	V-TUV115	Noise reduction insert	1
9	V-TUV116	Noise reduction insert	1
10	LP-HDST1	Link pipe	2
11	P-X73	Muffler bracket	1
12	P-HSHD4	Heat shield	2
13	P-R56	Fitting ring	2
14	P-R59	Fitting ring	2
15	P-HF584	Fitting set - chrome logo	1
16	P-FB33	Screw	4
17	P-FB40	Screw	2
18	P-DR4	Distance ring	8
19	P-FB41	Screw	4
20	P-HF602	Valve system fitting set	1
21	LP-HDST2	Link pipe with valve	2
22	P-X76	Bracket - valve	1
23	P-FB31	Screw	2
24	P-X94	Saddle bag bracket	2
25	P-DR41	Distance ring	4
26	P-FB11	Bolt	4
27	P-FB53	Bolt	4

No.	SALES CODE	DESCRIPTION	QTY.
28	P-HF630	Cable wire - short	1
29	P-HF631	Cable wire - long	1
30	P-HF639	Valve	1
31	P-RPCK64	Muffler repack kit	1

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."