



Installation instructions

Akrapovič Exhaust Systems
Racing and **Evolution**
for the
Kawasaki KX450F

**FOR CLOSED COURSE COMPETITION USE ONLY.
NOT INTENDED FOR STREET USE.**



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EN

Version 1.1

10/2015

www.akrapovic.com

Congratulations on purchasing the Akrapovič exhaust system. The Akrapovič exhaust system is a product of Akrapovič d.d., Malo Hudo 8a, 1295 Ivančna Gorica, Slovenia ("Akrapovič").

Please read this entire installation manual carefully prior to installing and using the Akrapovič exhaust system.

Please entrust the installation of the Akrapovič exhaust system to a trained professional skilled in car knowledge / motorcycle knowledge of exhaust system installation and performance. The instructions provided in this manual should be followed to ensure proper installation and safe use of the Akrapovič exhaust system. Akrapovič and/or its partners shall not be held liable for any damage or personal injury (including direct, indirect, or consequential damage) sustained as a result of improper installation of the Akrapovič exhaust system, use contrary to the instructions and warnings contained herein.

If you have any questions regarding the installation and/or proper use of the Akrapovič exhaust system or these instructions, contact your local authorized Akrapovič partner.

For more information on the Akrapovič exhaust systems, see the official Akrapovič website at:
<http://www.akrapovic.com>

GENERAL INFORMATION

All statements made with regard to the exhaust system's compliance are made in respect of the exhaust system "as is". Any modifications of the Akrapovič exhaust system or its improper installation that is not in accordance with these Installation Instructions, may result in severe damage to the exhaust system and/ or engine, as well as personal injury, and may affect the exhaust system's compliance with the legal requirements, such as exhaust system's air and/ or noise emissions (as an example, the motorcycle may not be used on public roads any longer). Please make sure that the exhaust system is used only in accordance with all relevant laws and regulations, including state and federal, where applicable.

GENERAL WARNING

Because of the world-wide distribution of Akrapovič d.d. products, neither Akrapovič d.d. nor any of its subsidiaries make any representation that the products comply with the air and/or noise emissions laws, or labeling laws, of any jurisdiction. The purchasers are entirely responsible for informing themselves of the applicable laws where the products are to be used and to comply with those law.

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The photographs and other illustrations in this manual are symbolic and are intended to help represent individual steps for proper installation and use, as well as for a general overview. The actual component parts of the Akrapovič exhaust system may not entirely correspond to the photographs and other illustrations.

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CA-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.”

USA WARNING

Various U.S. states and the U.S. federal government have individual laws regulating the use of aftermarket exhaust parts and systems, especially as those parts and systems modify, remove, or replace original equipment catalysts. Please consult the appropriate laws in your area before installing any aftermarket part or system on your vehicle to ensure compliance with all applicable laws. Neither Akrapovic d.d., Akrapovic America LLC nor any of their subsidiaries or the sellers of the parts or systems make any representation that any of their parts or systems comply with any such laws.

IMPORTANT INFORMATION

Exclusion of Certain Liability

1. 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.
2. Do not attempt to install the Akrapovič exhaust system on a vehicle model for which it was not made or tested by Akrapovič.
3. 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.
4. 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.
5. Technical specifications of Akrapovič exhaust systems and related products are subject to change without notice.
6. Before removing the original exhaust system from your vehicle, please compare the parts you received with the list of materials provided on official Akrapovič website www.akrapovic.com in order to assure that you have all the parts necessary for the installation of your new Akrapovič exhaust system.
7. 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.

SYMBOLS

The following symbols are used throughout these installation instructions:



TOOLS AND PROTECTIVE EQUIPMENT REQUIRED



TIGHTENING TORQUE



LUBRICATION



HAND TIGHTEN



INSTALLATION TIP



IMPORTANT / CAUTION

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.

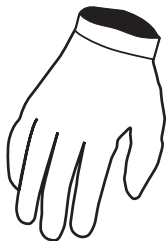
USE ANTI-SEIZING GREASE (white tube)



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.

Tools & equipment



- mechanic gloves
- T-handle 8 mm wrench
- T-handle 10 mm wrench
- T-handle 12 mm wrench
- T-handle Torx 45 wrench
- Spring puller



BEFORE INSTALLING, CHECK THE PARTS LIST AND SCHEMATIC DRAWING 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 KAWASAKI KX450F M.Y. 2016. 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.

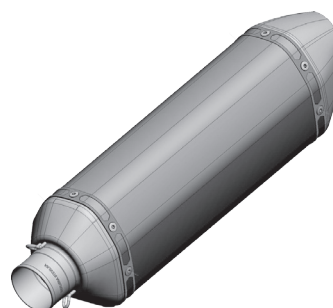
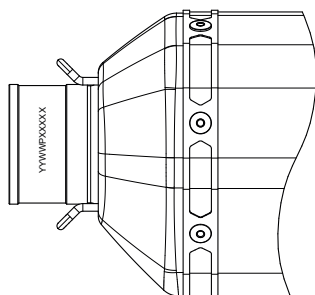


THE AKRAPOVIČ WARRANTY DOES NOT COVER DISCOLORATION OF ANY CHROME PRODUCTS.

WARNING: THE EXHAUST SYSTEM CAN BE EXTREMELY HOT. ALLOW THE EXHAUST AND ENGINE TO COOL DOWN BEFORE BEGINNING INSTALLATION. THIS MANUAL IS SPECIFIC TO THE KAWASAKI KX450F M.Y. 2016. 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.

SERIAL NUMBER POSITION

Unique serial number of the Akrapovič muffler is located on the muffler's inlet.



REMOVAL OF STOCK EXHAUST SYSTEM:

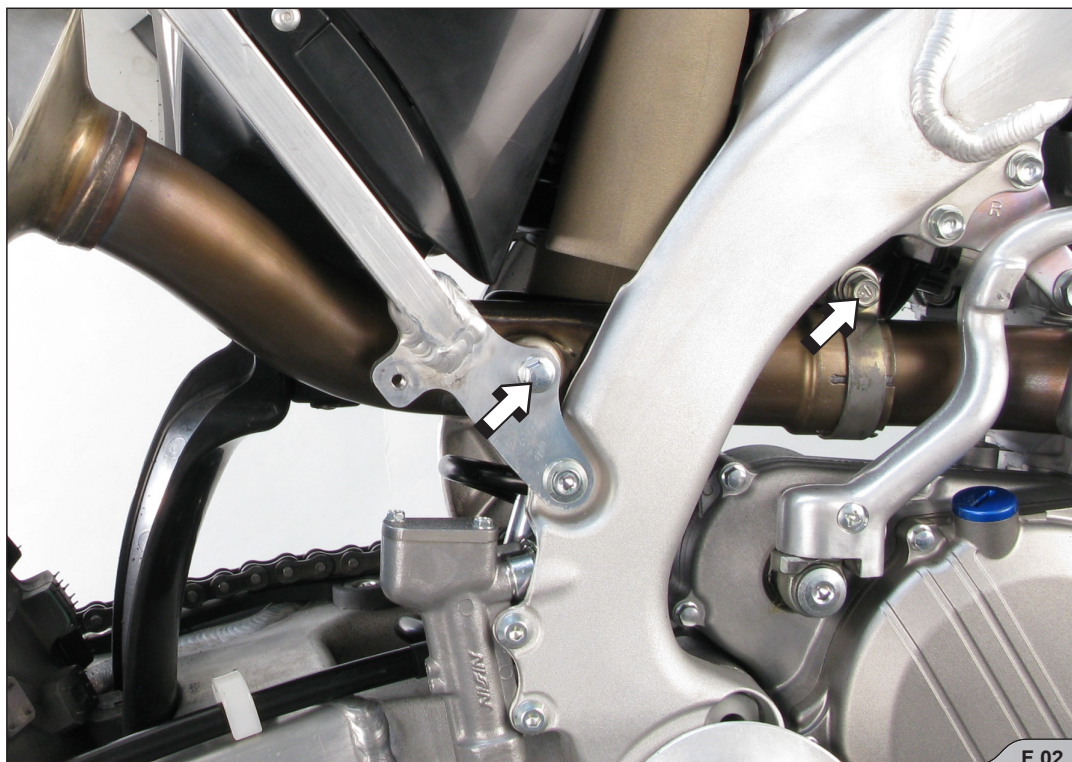
1. Put the motorcycle on a central racing stand. Make sure, that surface is solid and flat.
2. Unscrew the marked bolts and remove the right side panel (F 01).

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



3. Loosen the marked clamp and unscrew the link pipe's bracket bolt (F 02).

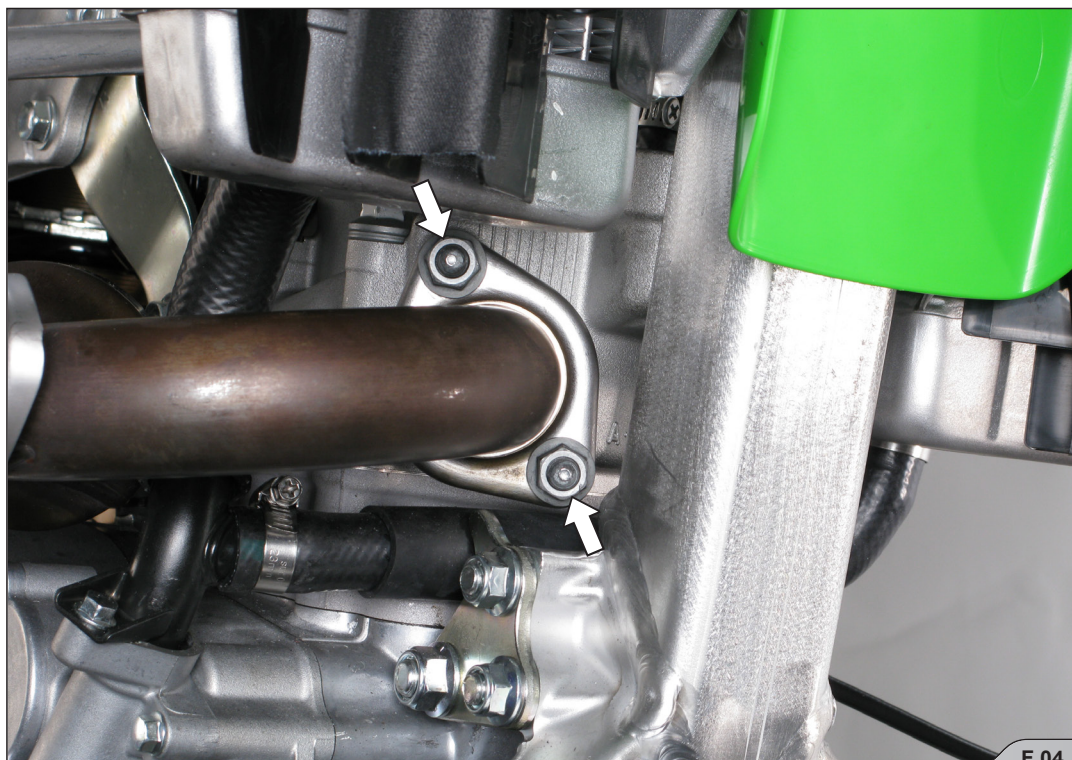
! **CAUTION:** make sure not to damage any part of the motorcycle during this process!



4. Unscrew the muffler's bracket bolt and carefully remove the muffler off the motorcycle (F 03).
! CAUTION: support the muffler during this process!
! CAUTION: make sure not to damage any part of the motorcycle during this process!



5. Unscrew the two marked nuts and carefully remove the stock header pipe off the motorcycle (F 04).
! CAUTION: make sure not to damage any part of the motorcycle during this process!



INSTALLATION OF THE AKRAPOVIČ EXHAUST SYSTEM:

1. Set up the sleeve together with the flange and springs as shown; make sure you orient the flanges and springs as shown (F 05).

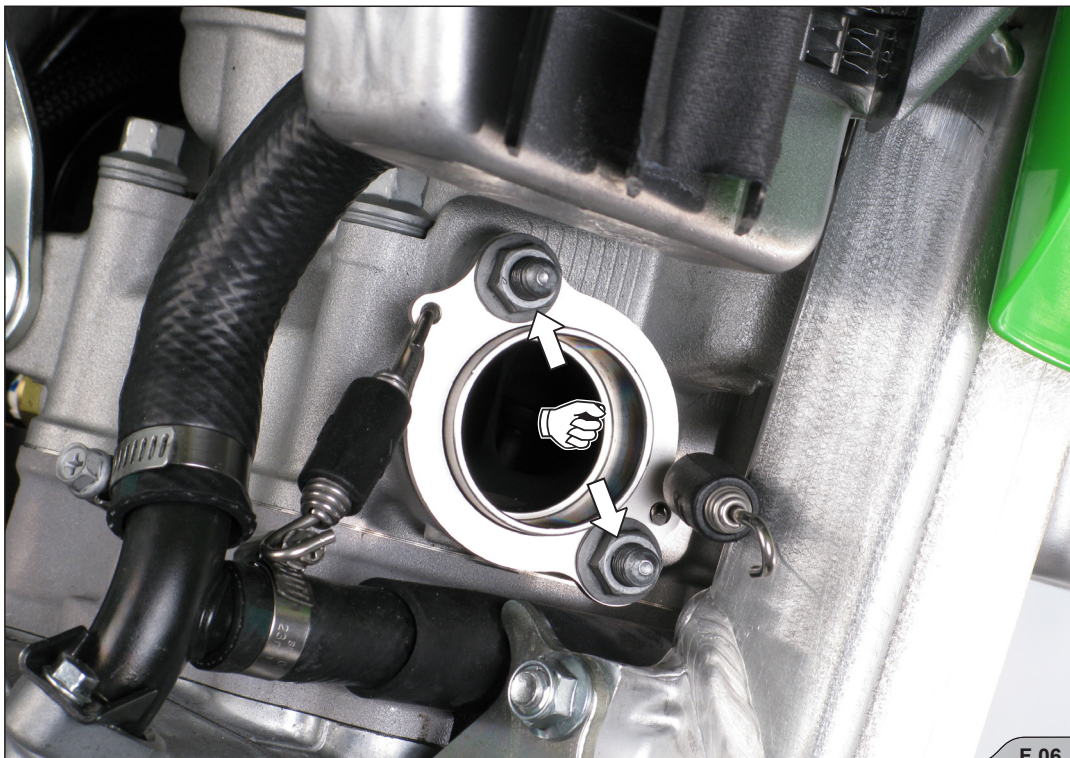


F 05

2. Install the assembled sleeve, flange and springs onto the motorcycle and hand tighten the two marked stock nuts (F 06).

! **IMPORTANT:** do not fully tighten the nuts yet!

✂ **INSTALLATION TIP:** use new stock exhaust port gasket.



F 06

3. Assemble the carbon fiber heat shield onto the header tube, using Akrapovič bolts and heat resistant washers (F 07, 08).

✘ INSTALLATION TIP: screw the heat resistant washers onto the bolts; do not try to push them on!

! IMPORTANT: make sure to place the bigger heat resistant washers between the header tube and carbon fiber heat shield and smaller washers between bolts' heads and heat shield!

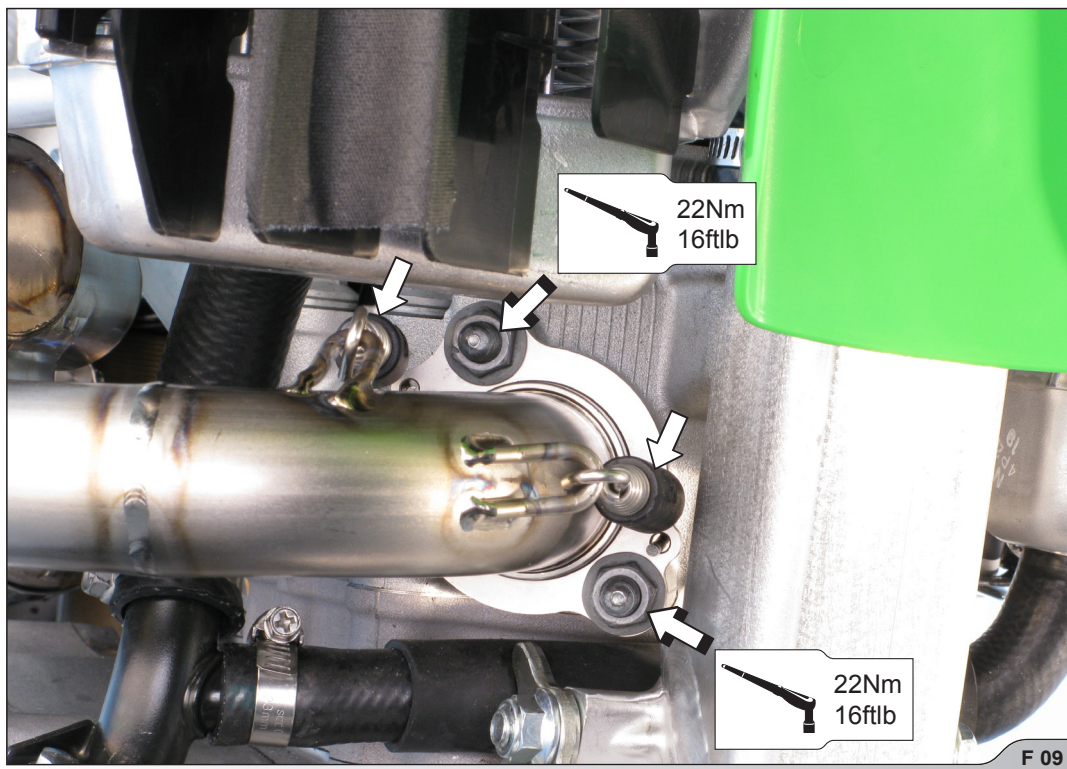


F 07



F 08

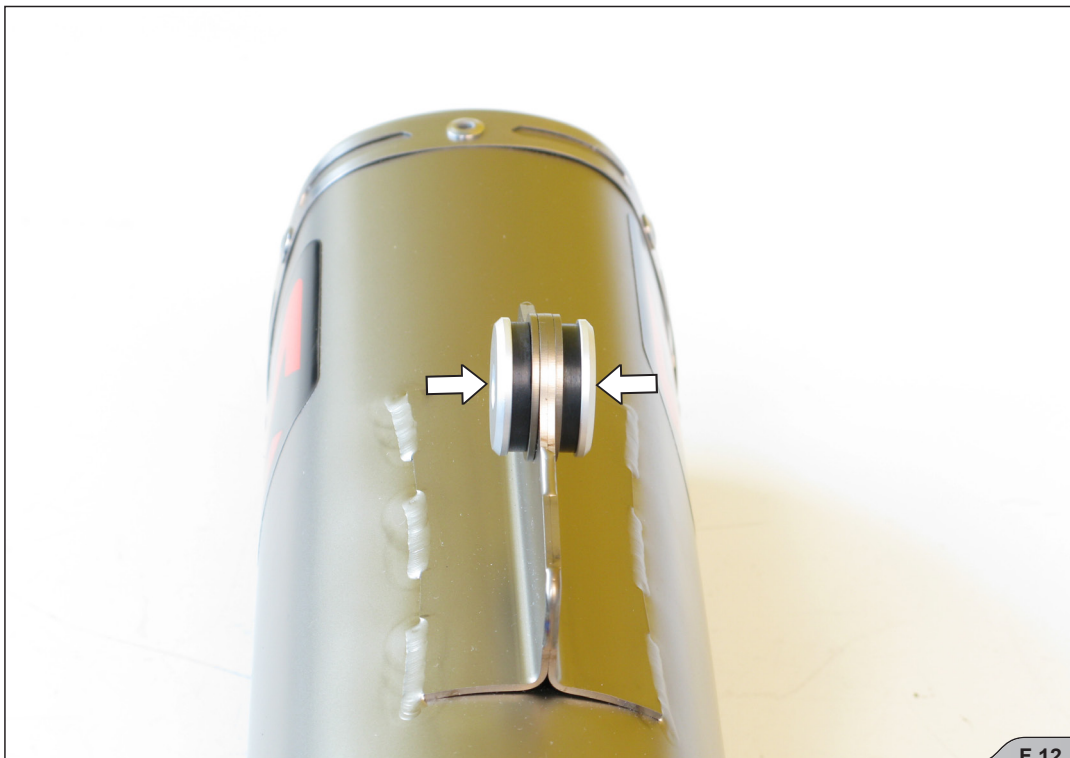
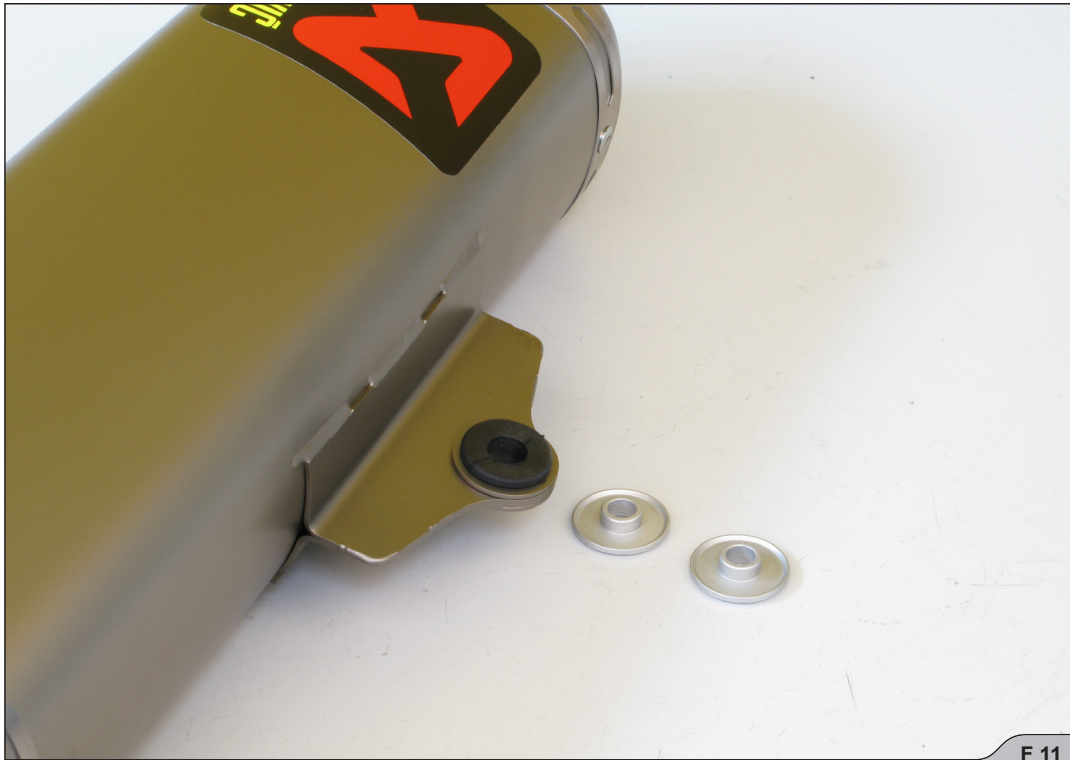
4. Insert the header tube into the sleeve, attach the springs and tighten the nuts to a specified torque (F 09).
! **IMPORTANT:** before tightening the nuts, make sure, that springs pull the header tube all the way into the sleeve – use rubber mallet if necessary to tap the connection into place!



5. Assemble the clamp from Akrapovič installation kit onto the muffler's inlet pipe, as shown (F 10).



6. Assemble the aluminium bushes into the rubber muffler's bracket, as shown (F 11, 12).

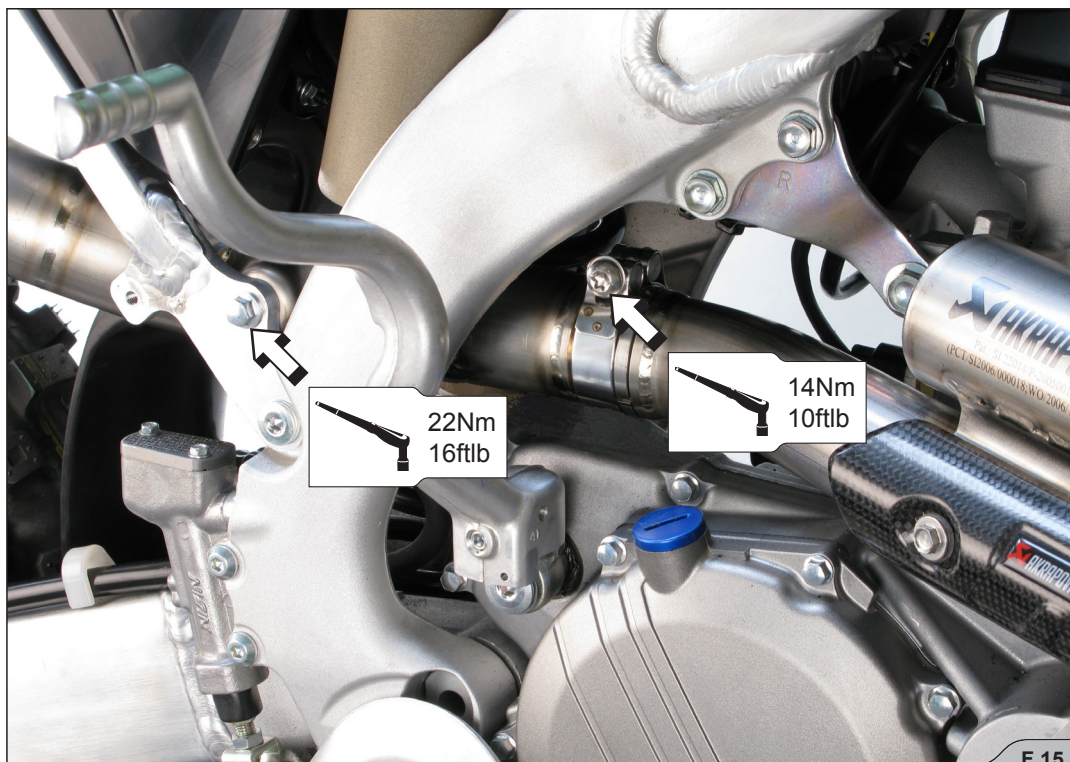


- Carefully slide the muffler onto the outlet side of the header pipe. Hand tighten the clamp, muffler's bracket (using stock bolt and washer from Akrapovič installation kit), link pipe's bracket bolt (using stock bolt), as shown (F 13).
! IMPORTANT: do not fully tighten the bolts yet!
! CAUTION: make sure not to damage any part of the motorcycle during this process!



- Align the muffler in respect to the motorcycle and tighten the muffler's bracket bolt, link pipe's bracket bolt and clamp to the specified torques (F 14, 15).

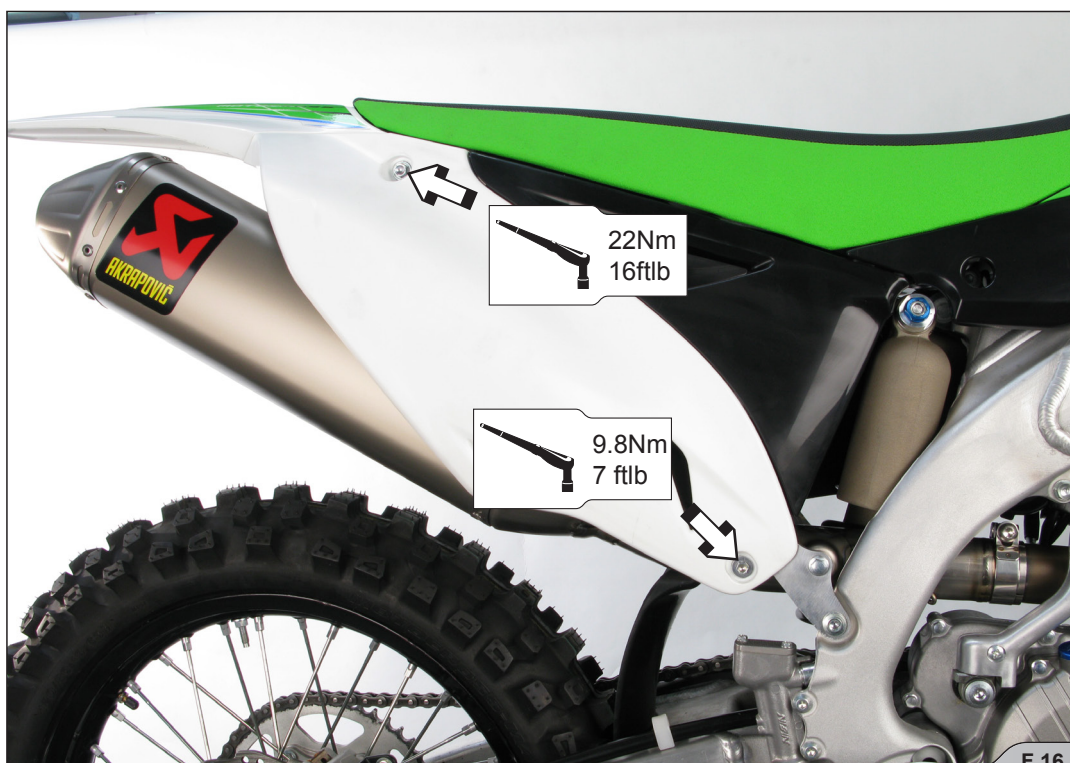




F 15

9. Reattach the right side panel and tighten the marked bolts to a specified torques (F 16).

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



F 16

FINAL INSTALLATION AND MAINTENANCE:

Clean grease spots off all exhaust system surfaces, when installation is finished. Cleaning will prevent spots from burning onto the surface. Do not use aggressive chemical cleaners, because they can damage the surface or sticker.

1. Muffler – titanium outer sleeve: use a soft cloth sprayed with a multi-purpose spray lubricant (WD-40 or equivalent).
2. Muffler – carbon-fiber outer sleeve: use a soft dry cloth sprayed with all purpose foam cleaner, then wipe with a soft dry cloth.
3. Muffler – carbon-fiber outlet cap: use a soft dry cloth sprayed with all purpose foam cleaner, then wipe with a soft dry cloth.
4. Painted mufflers and parts – use a soft cloth sprayed with all purpose foam cleaner, then wipe with a soft dry cloth.
5. Chrome plated mufflers and parts: use a soft cloth sprayed with all purpose foam cleaner, then wipe with a soft dry cloth.
6. Stainless steel pipes: use a soft cloth sprayed with a contact cleaner, then wipe with a soft dry cloth.
7. Titanium pipes: use a soft cloth sprayed with a multi-purpose spray lubricant (WD-40 or equivalent).



INSTALLATION TIP: 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!



INSTALLATION TIP: after running engine for 30 minutes, retighten the bolts of the Akrapovič carbon-fiber heat shield!



IT IS NORMAL IF WHITE SMOKE COMES OUT OF THE MUFFLER ON FIRST OPERATION.



A CHANGE IN THE COLOR OF THE EXHAUST SYSTEM IS NORMAL DUE TO THE HIGH TEMPERATURES.



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.

TROUBLESHOOTING:

Problem	Possible cause	Solution
Exhaust gas leaks out of the muffler/pipe clamp connections	loosened clamp	tighten the clamp to specified torque
	connection is not completely joined	tap the connection into place and tighten the clamp to specified torque

