



Installation instructions

Akrapovič Exhaust System
Evolution Line
for the
Aprilia RSV4
Aprilia Tuono V4



510417

Document nr.:
D250.1.00.1570 A

www.akrapovic.com

D250.1.00.0000 H

Congratulations on purchasing the Akrapovič product. The Akrapovič product is made by 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 product.

Akrapovič product should only be installed by persons skilled in motorcycle exhaust system or other motorcycle parts installation and performance. The instructions provided in this manual should be followed to ensure proper installation and safe use of the Akrapovič product. 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 product or its use and maintenance contrary to the instructions and warnings contained herein.

If you have any questions regarding the installation and/or proper use of the Akrapovič product or this manual, please contact your local Akrapovič partner.

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

GENERAL INFORMATION

Your safety is our number one priority. Please ride your motorcycle responsibly, safely and always obey local traffic rules.

All statements made with regard to the product's compliance are made in respect of the product "as is". Any modifications of the Akrapovič product or its improper installation, use or maintenance that is not in accordance with this Installation manual, may result in severe damage to the product and/or motorcycle, as well as personal injury, and may affect the product's compliance with the legal requirements, such as product's air and/or noise emissions (as an example, the motorcycle may not be suitable for use on public roads any longer), as well as warranty coverage.

The product may only be used in accordance with relevant laws and regulations, including state and federal, where applicable.

Damage caused by improper installation, use and maintenance of the Akrapovič product is not covered by the Akrapovič warranty. Please refer to the enclosed warranty with regard to the terms of our warranty.

Technical specifications of Akrapovič products are subject to change without notice.

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Akrapovič takes all copyright and other rights infringement cases under serious consideration. If you have any reason to believe that your product is not an original Akrapovič product, please contact our local partners or Akrapovič at info@akrapovic.com.

The shape of the Akrapovič product is protected with registered design under:

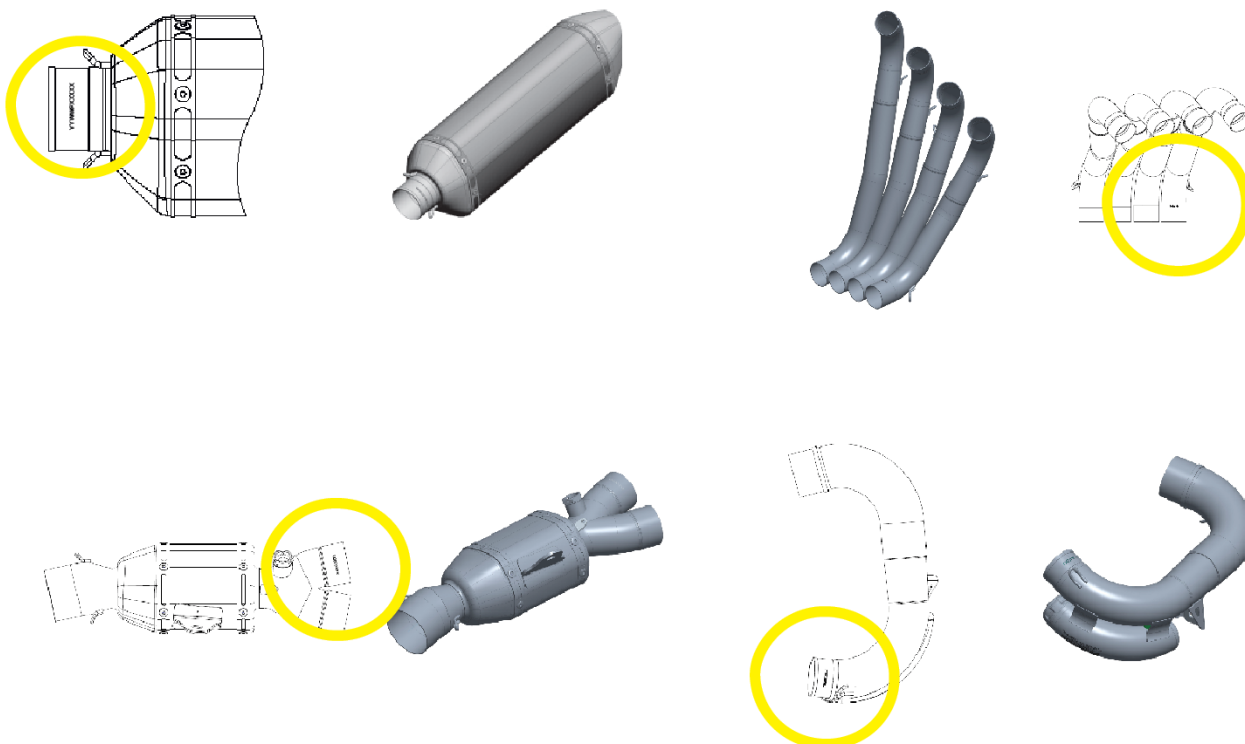
- EU: REUD 002747329-0001

SAFETY AND COMPLIANCE WARNING, PLEASE READ CAREFULLY

BEFORE REMOVING THE STOCK PARTS AND BEGINNING THE INSTALLATION OF YOUR NEW AKRAPOVIČ PRODUCT, PLEASE MAKE SURE THAT ALL ITEMS LISTED BELOW ARE VERIFIED:

- THIS MANUAL IS SPECIFIC TO THE MOTORCYCLE INDICATED ON THE COVER PAGE, FOR WHICH IT IS DESIGNED. INSTALLATION PROCEDURES VARY DEPENDING ON THE TYPE OF MOTORCYCLE. PLEASE VERIFY THAT THE AKRAPOVIČ PRODUCT AND THIS INSTALLATION MANUAL CORRESPOND TO THE TYPE OF YOUR MOTORCYCLE.
- **FOR EXHAUST SYSTEM ONLY:** THE EXHAUST SYSTEM CAN GET EXTREMELY HOT DURING AND AFTER IT IS USED. MAKE SURE NOT TO TOUCH THE EXHAUST SYSTEM UNTIL IT IS COMPLETELY COOL. **ALLOW THE EXHAUST AND ENGINE TO COOL DOWN BEFORE BEGINNING INSTALLATION OR ANY OTHER WORK ON THE MOTORCYCLE.**
- MAKE SURE THE MOTORCYCLE IS **SECURELY POSITIONED TO PREVENT TIPPING OVER** AND DAMAGE TO YOURSELF AND OTHERS, OR THE MOTORCYCLE.
- PLEASE CHECK THE PARTS YOU RECEIVED AGAINST THE PARTS LIST AVAILABLE ON OUR WEBSITE (PLEASE USE THE QR CODE ON THE FRONT PAGE OR LOOK FOR “SCHEMATIC VIEW” IN THE RESPECTIVE PRODUCT PAGE ON WWW.AKRAPOVIC.COM). MAKE SURE THAT YOU HAVE **ALL THE PARTS NECESSARY FOR THE INSTALLATION** OF YOUR NEW AKRAPOVIČ PRODUCT. IF ANY OF THE PARTS IS MISSING, PLEASE DO NOT PROCEED WITH UNINSTALLING YOUR STOCK PARTS/ INSTALLING THE AKRAPOVIČ PRODUCT AND CONTACT THE RETAILER WHERE YOU PURCHASED THE AKRAPOVIČ PRODUCT.
- ALWAYS **CHECK YOUR MOTORCYCLE'S GROUND CLEARANCE.** FOR ADVANCED USERS, WE RECOMMEND YOU CHECK THE MOTORCYCLE SPRING PRELOAD SETTINGS TO OPTIMIZE GROUND CLEARANCE WHERE POSSIBLE.
- **FOR EXHAUST SYSTEM ONLY:** EVERY EXHAUST SYSTEM MUFFLER HAS ITS UNIQUE SERIAL NUMBER, WHICH IDENTIFIES THE AUTHENTICITY OF THE PRODUCT. YOU CAN FIND THE SERIAL NUMBER ON THE MUFFLER'S INLET PIPE. PLEASE REFER TO THE PICTURE BELOW. PLEASE VERIFY THAT YOUR EXHAUST SYSTEM IS AN ORIGINAL AKRAPOVIČ PRODUCT. IF YOU HAVE ANY DOUBTS, PLEASE CONTACT THE RESELLER WHERE YOU PURCHASED THE EXHAUST SYSTEM OR AKRAPOVIČ PARTNERS. THIS MANUAL, ANY CERTIFICATES AND AKRAPOVIČ WARRANTY APPLY TO ORIGINAL PRODUCTS ONLY.

EXAMPLES OF SERIAL NUMBER POSITION



NOISE AND EMISSION WARNINGS

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.

Although legal compliance of Akrapovič products in a specific country should be determined by the user, you can find some basic guidance on compliance of your Akrapovič product with various legal requirements on the product-related part of our website (please use the QR code on the front page or look for the respective product page on www.akrapovic.com). For EC and ECE type approvals, please refer to the certificate enclosed to your product.

USA WARNING

Various U.S. states and the U.S. federal government have individual laws regulating the use of aftermarket 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. 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.

CALIFORNIA WARNING

California laws prohibit the use of any aftermarket part or system that modifies, removes or replaces original equipment catalysts unless the California Air Resources Board has issued an Executive Order regarding such part or system or unless the part or system is exempted by being used only on racing vehicles on closed courses. Neither Akrapovic d.d. nor any of their subsidiaries make any representation that any of their parts or systems has received such an Executive Order or that any of their parts or systems conform with the racing vehicles exemption. The purchasers are entirely responsible for informing themselves of applicable California laws and to comply with those laws.

GENERAL NOTE

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 product may not entirely correspond to the photographs and other illustrations.

SYMBOLS

The following symbols are used throughout these installation instructions:



TOOLS AND PROTECTIVE EQUIPMENT REQUIRED



TIGHTENING TORQUE



LUBRICATION



HAND TIGHTEN



INSTALLATION TIP



CAUTION OR IMPORTANT

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. Keep out of reach of children.

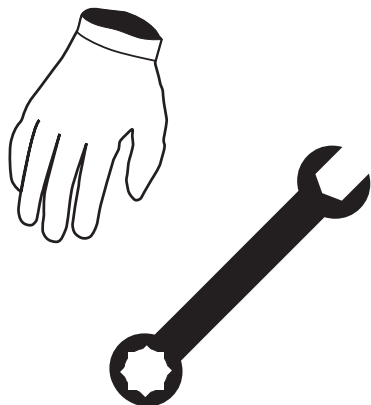
USE ANTI-SEIZING GREASE (white tube)



Prevents seizing, corrosion and excessive wear between the titanium components.

WARNING! Avoid eye contact. Keep out of reach of children.

Tools & equipment



- Torx 25 wrench
- Torx 40 wrench
- T-handle 10 swiveling mm wrench
- T-handle 3 mm hexagon wrench
- T-handle 4 mm hexagon wrench
- T-handle 5 mm hexagon wrench
- T-handle 6 mm hexagon wrench
- Combination 8 mm wrench
- Combination 10 mm wrench
- Combination 12 mm wrench
- Combination 13 mm wrench
- Combination 17 mm wrench
- Socket 10 mm
- Socket 13 mm
- Small flat screwdriver
- Spring puller

PARTS LIST

The packaging box should contain one or more of the following items:

- Akrapovič product
- Homologation certificate/ compliance documents if applicable
- Warranty
- Fitting material
- Installation Manual

Detailed list of parts can be found on the Akrapovič website (please use the QR code on the front page or look for “Schematic view” in the respective product page on www.akrapovic.com).

REMOVAL OF STOCK EXHAUST SYSTEM OR OTHER STOCK MOTORCYCLE PARTS:

The process of uninstalling the original exhaust system or other motorcycle parts, may vary depending on the existing exhaust system or other motorcycle parts. Please follow the motorcycle manufacturer’s workshop manual for uninstalling the original exhaust system or other motorcycle parts.

If you for any reason decide otherwise, please note that any information provided in this respect herein should be considered as general information provided for your convenience only. Akrapovič shall not assume any liability or responsibility with regard to uninstalling your existing exhaust system or other parts of the motorcycle, warranty coverage of such exhaust system or other motorcycle parts vehicle or their further fitness for use.

In case your Akrapovič exhaust system or other motorcycle parts may not be used on certain roads or under certain conditions, please keep the stock (or other) exhaust system or other stock parts that you can use in such circumstances legally.

REMOVAL OF STOCK EXHAUST SYSTEM:

1. Put the motorcycle on a central racing stand. Make sure, that surface is solid and flat.
2. **For Aprilia RSV4 only:** unscrew marked bolts on both sides of the motorcycle (F 01).

! **CAUTION:** be careful not to injure yourself or damage any part of the motorcycle during this procedure!



3. **For Aprilia Tuono V4 only:** unscrew the marked bolts on both sides of the motorcycle (F 02).

! **CAUTION:** be careful not to injure yourself or damage any part of the motorcycle during this procedure!

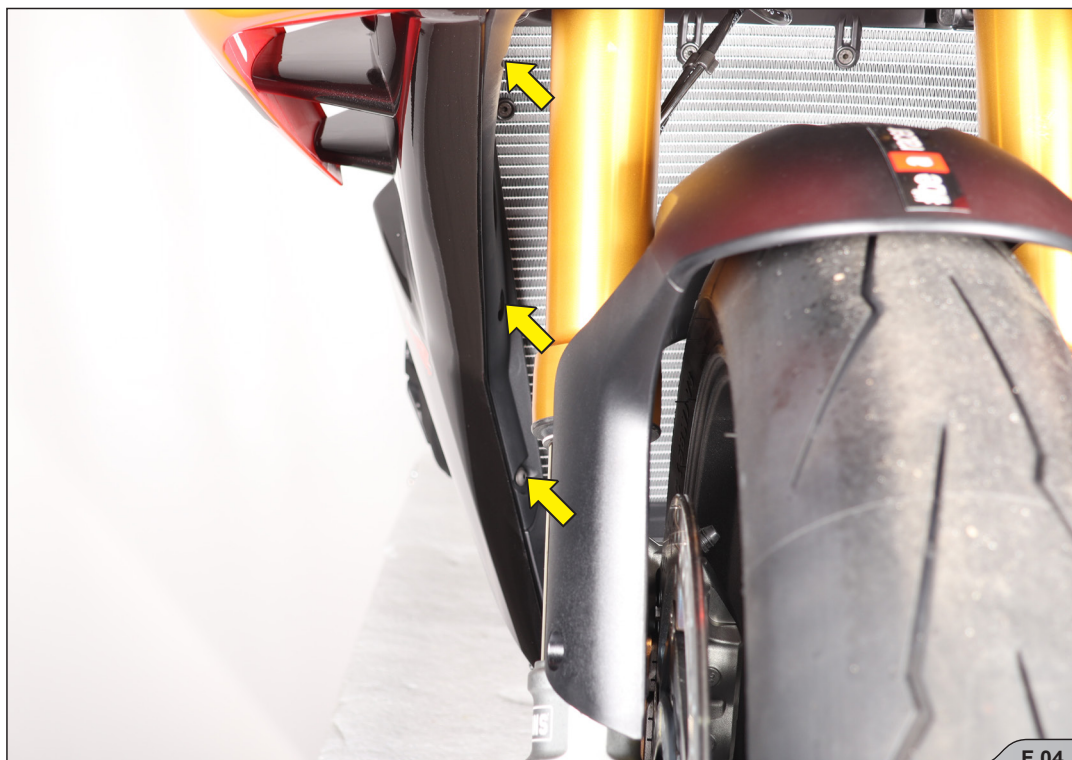


4. Unscrew marked bolts and carefully remove the cowlings of the motorcycle (F 03, 04, 05, 06).

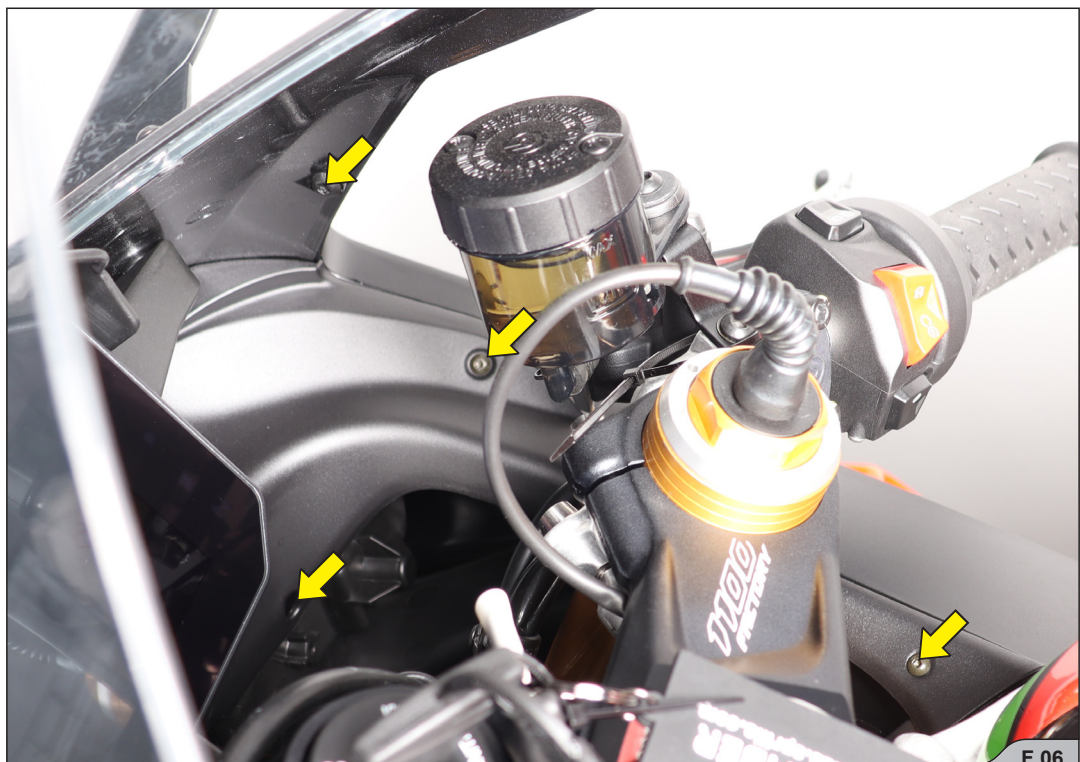
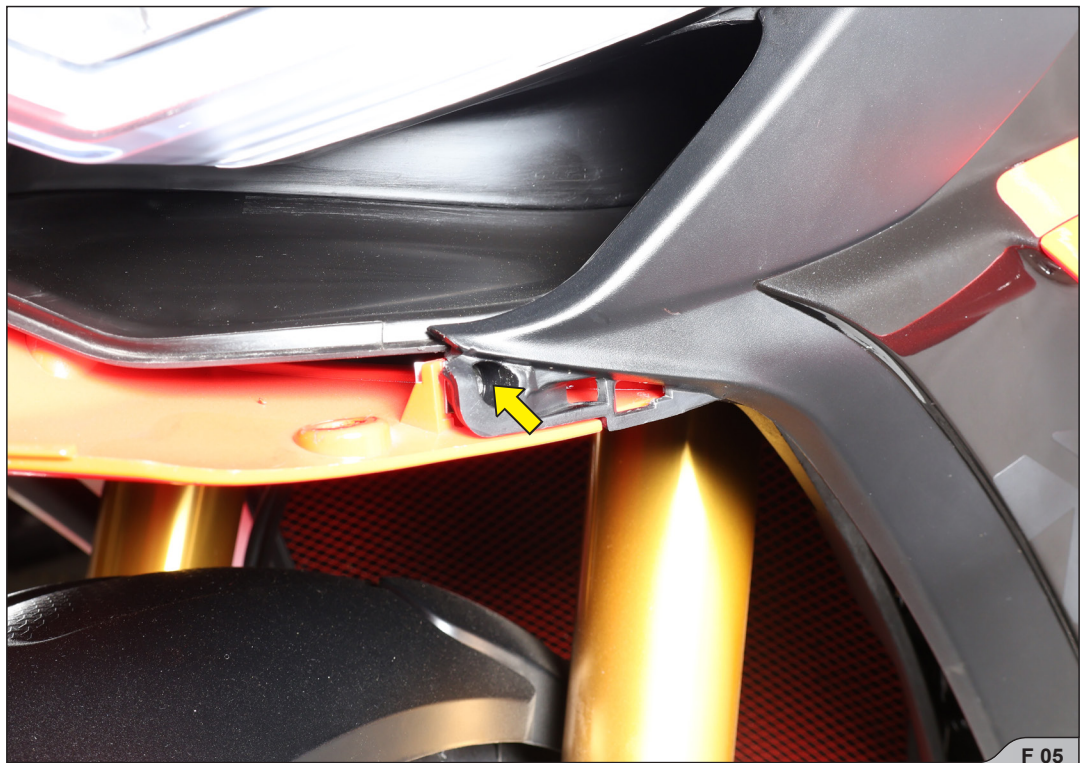
! **CAUTION:** be careful not to injure yourself or damage any part of the motorcycle during this procedure!



F 03



F 04



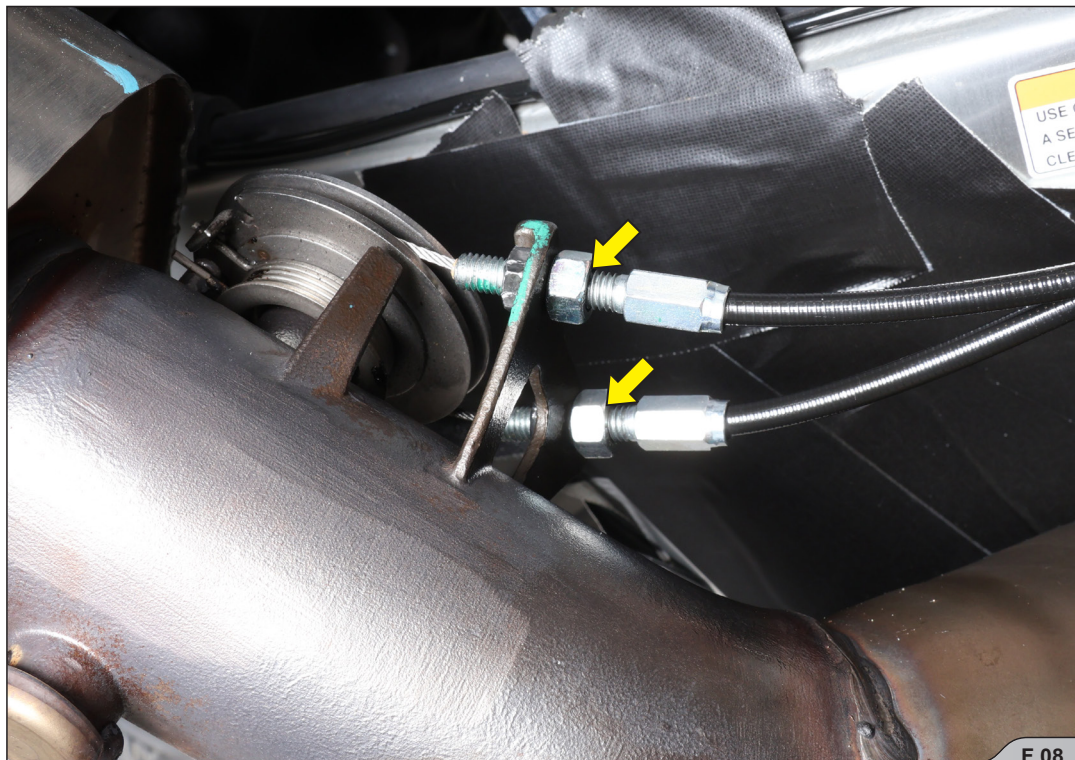
5. Protect the swing arm with proper Adhesive tape then unscrew marked bolt, loosen marked clamp and partially remove muffler off the motorcycle (F 07).

! **IMPORTANT:** be careful not to damage any part of the motorcycle during this procedure!



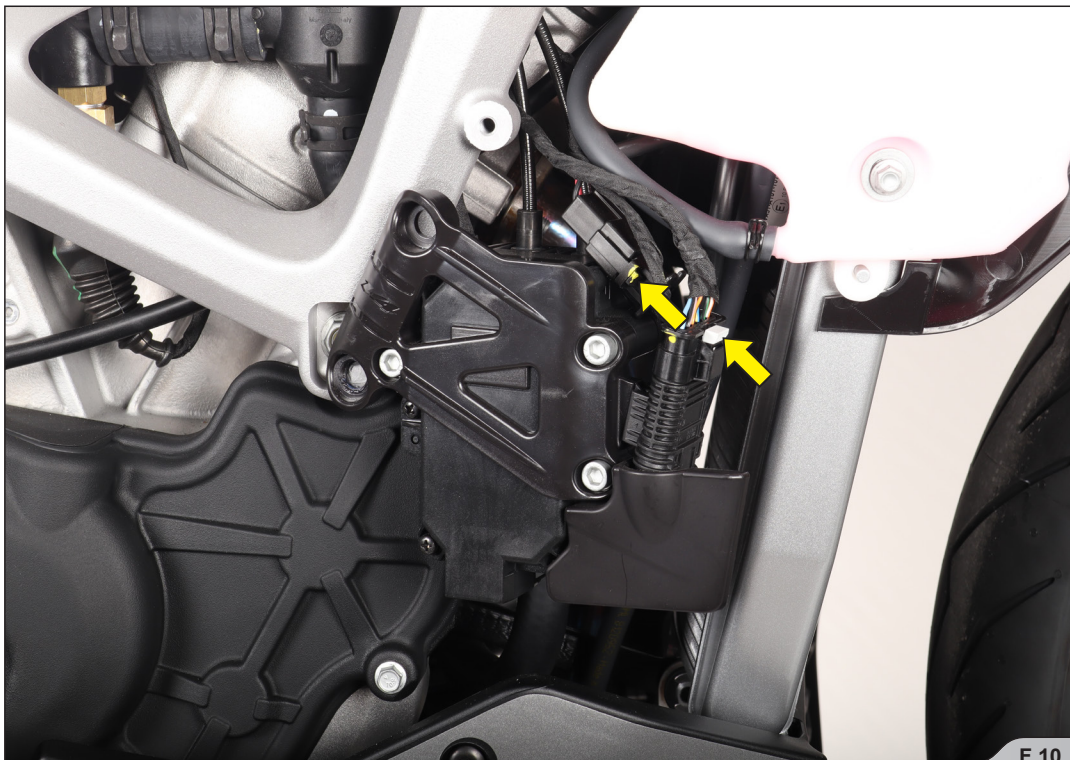
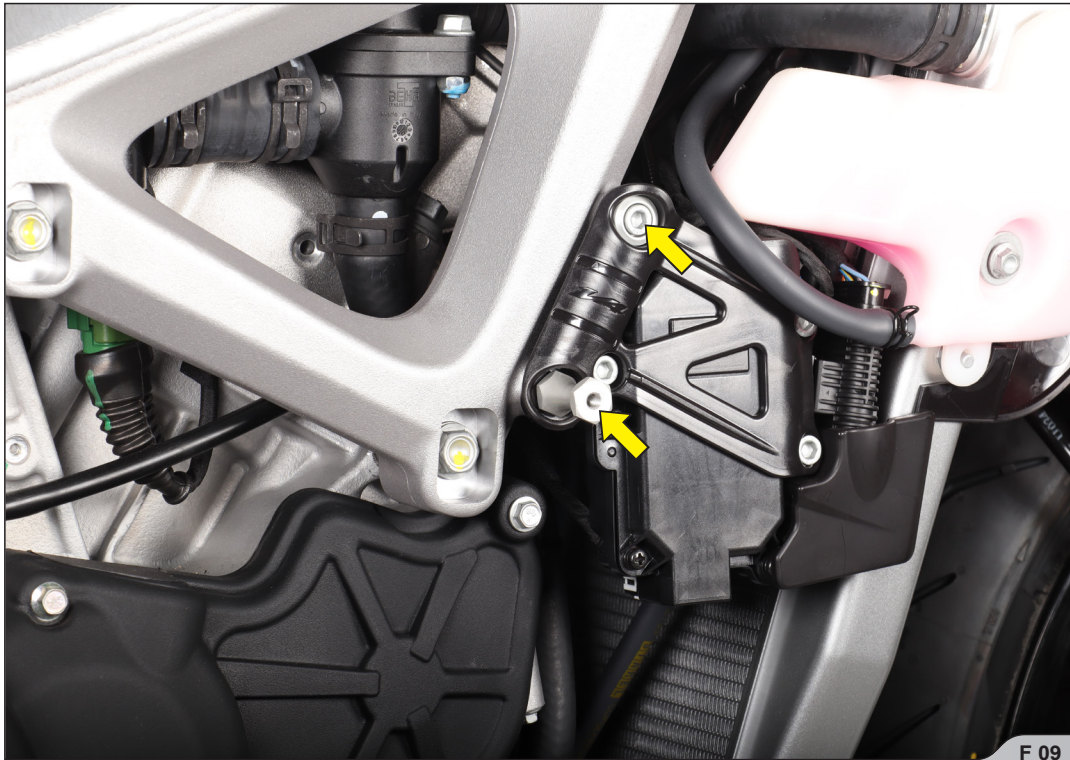
6. Loosen marked nuts and carefully remove valve cables off the bracket and muffler then carefully remove stock muffler off the motorcycle (F 08).

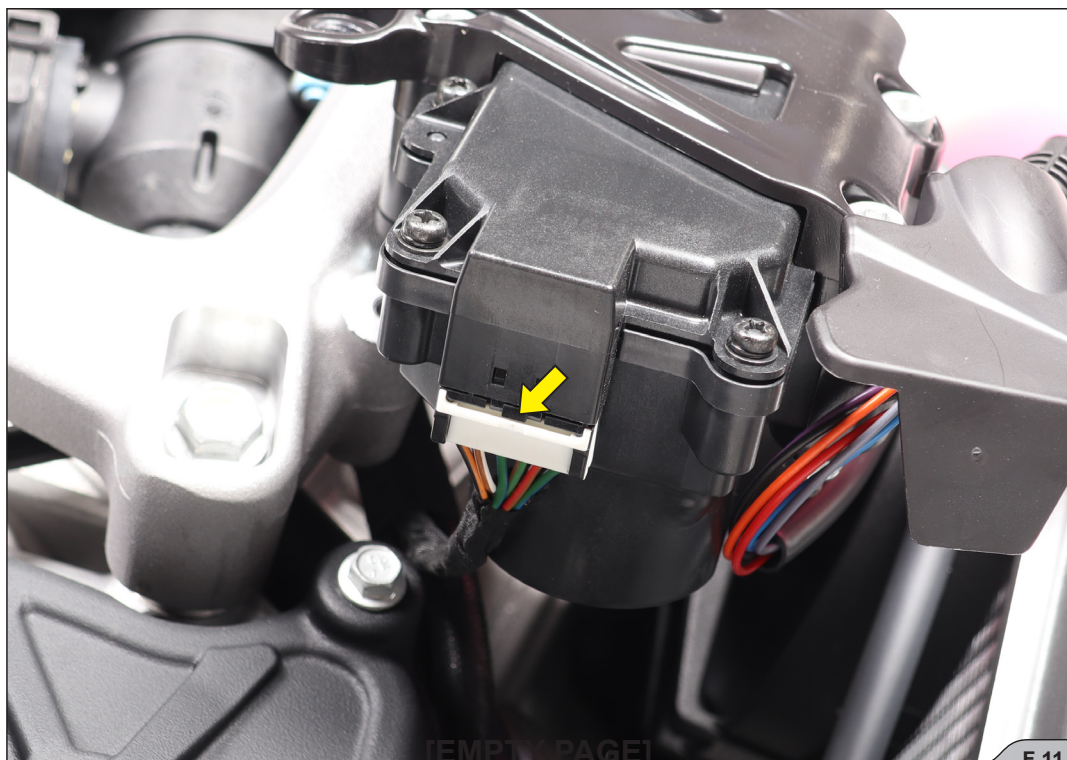
! **CAUTION:** be careful not to injure yourself or damage any part of the motorcycle during this procedure!



7. Unscrew marked bolts and partially remove valve actuator then carefully disconnect electrical valve connectors from actuator (F 09, 10, 11).

! **IMPORTANT:** be careful not to damage any part of the motorcycle during this procedure!





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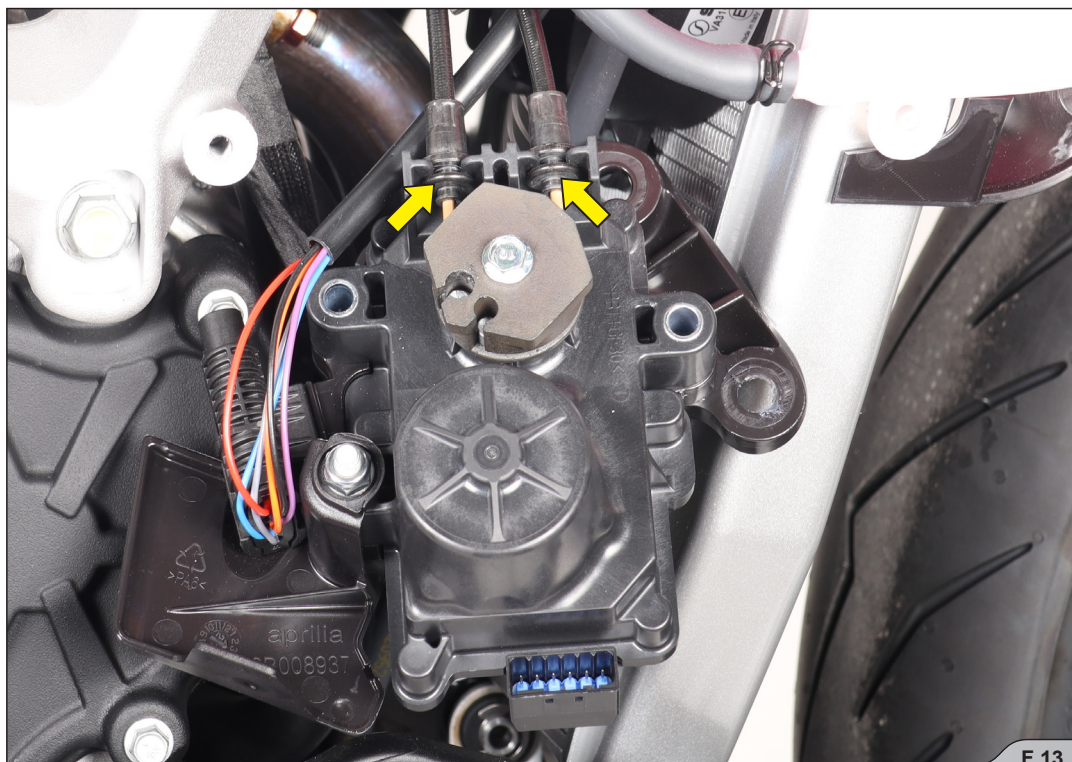
F 11

8. Unscrew marked nuts remove the plastic bracket of the actuator then disconnect and carefully remove the exhaust valve cables off the actuator and from the motorcycle (F 12, 13, 14).

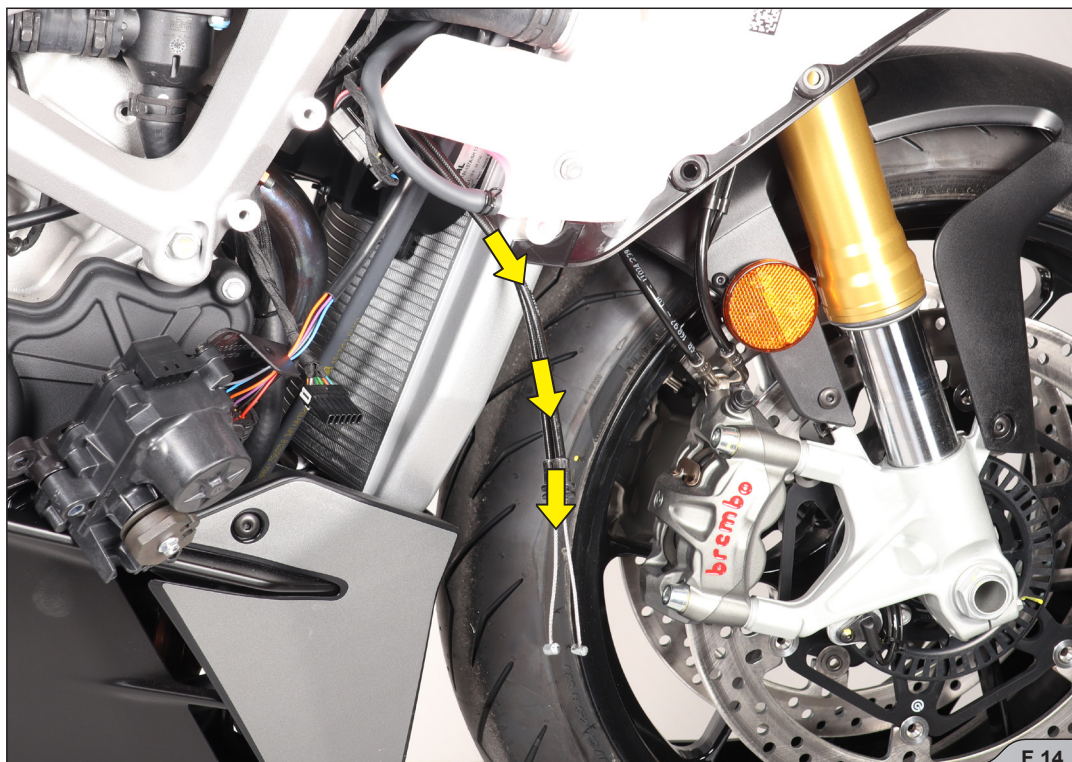
! **IMPORTANT:** be careful not to damage any part of the motorcycle during this procedure!



F 12



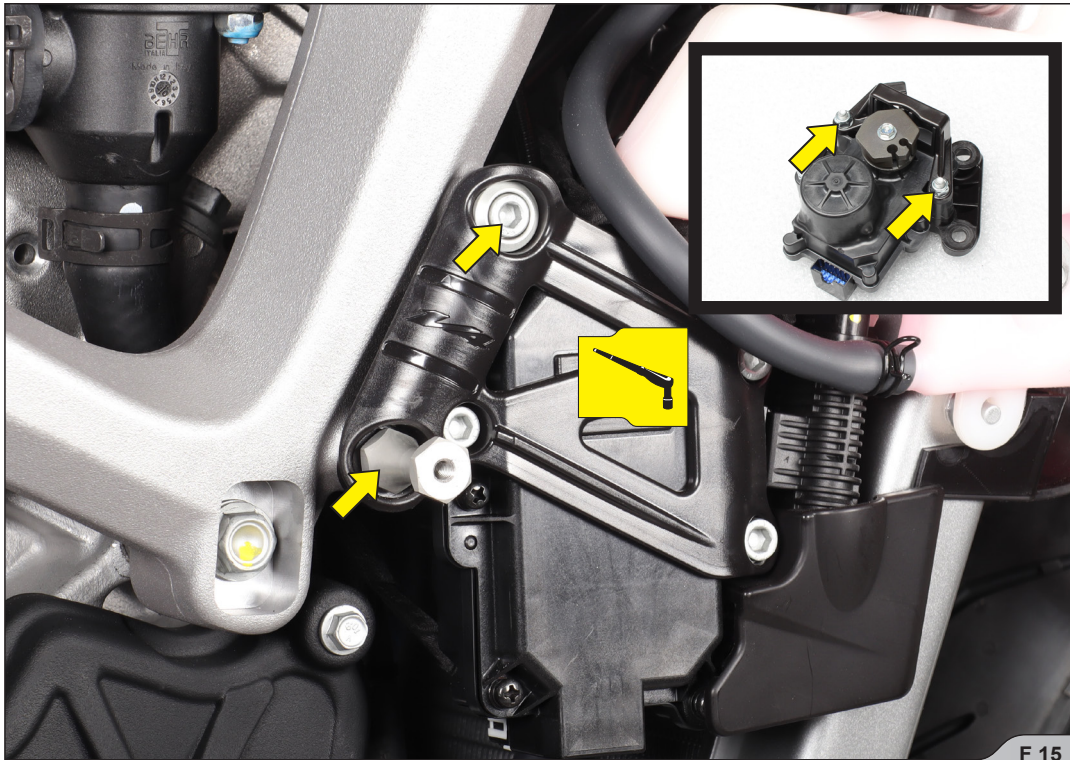
F 13



F 14

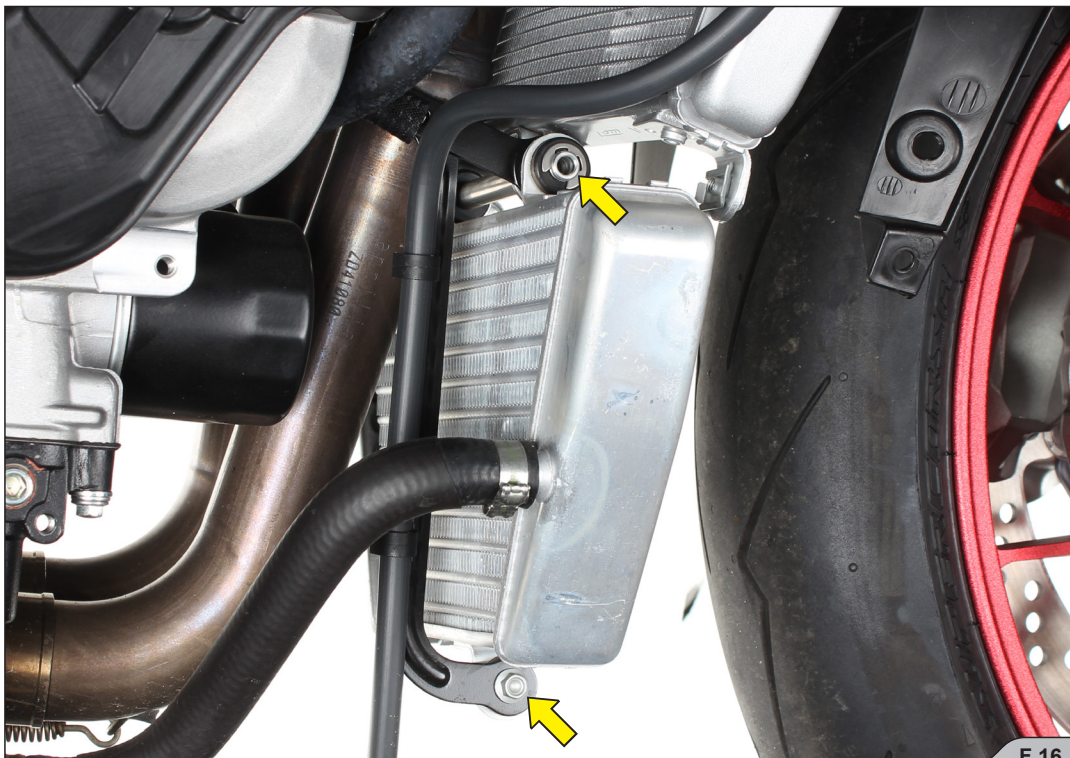
9. Assemble and reinstall the valve actuator, without cables, onto the motorcycle in reverse order as it was removed. Check vehicle workshop manual for tightening torques (F 15).

! **IMPORTANT:** be careful not to damage any part of the motorcycle during this procedure!



10. Unscrew the bolt and remove the safety pin from the oil cooler hanging brackets and move the cooler out of the way (F 16).

! **IMPORTANT:** be careful not to damage the radiator or any other part of the motorcycle during this process!



11. Unhook the marked springs (F 17).

! **CAUTION:** be careful not to injure yourself or damage any part of the motorcycle during this procedure!



F 17

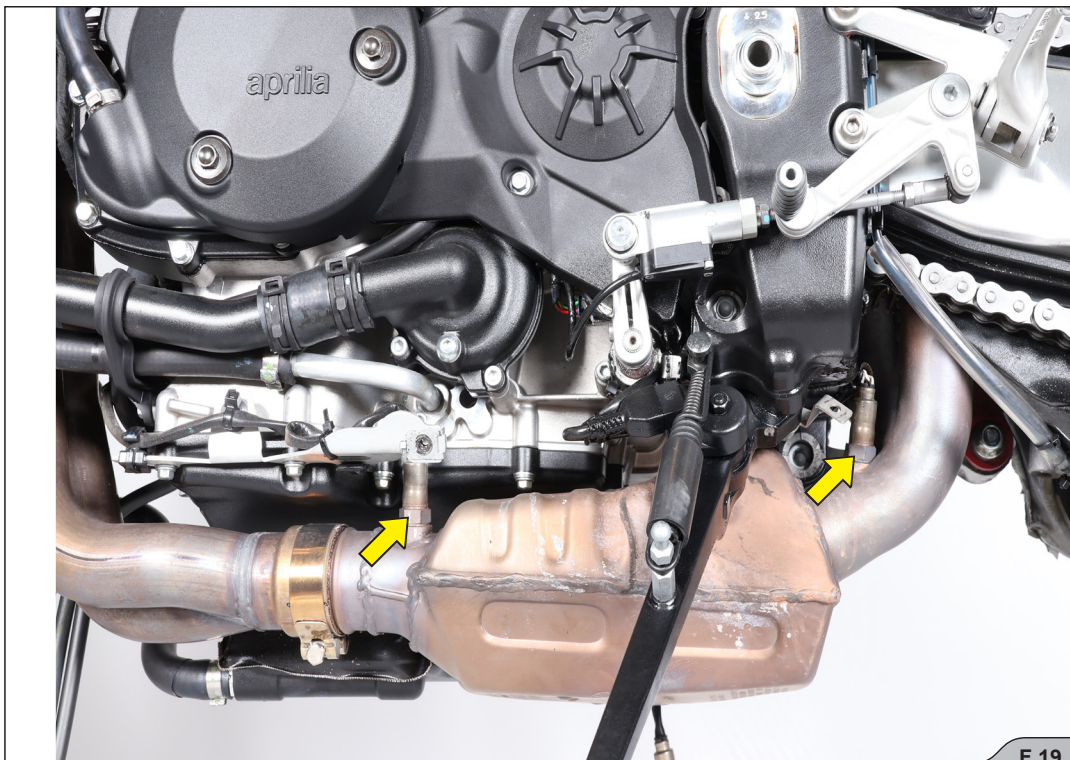
12. Unscrew marked lambda sensors out off the pre muffler (F 18, 19).

! **IMPORTANT:** make sure not to damage the lambda sensor's electrical lead during this procedure!

! **CAUTION:** be careful not to injure yourself or damage any part of the motorcycle during this procedure!



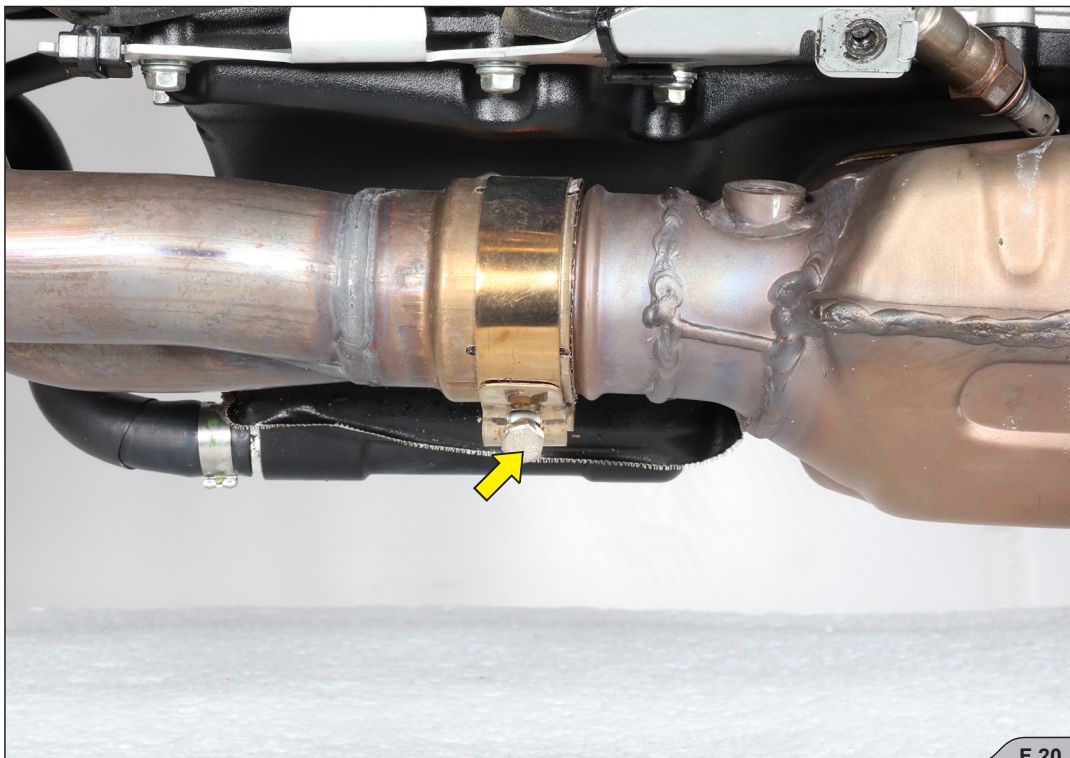
F 18



F 19

13. Loosen marked clamp and remove the pre muffler off the motorcycle (F 20).

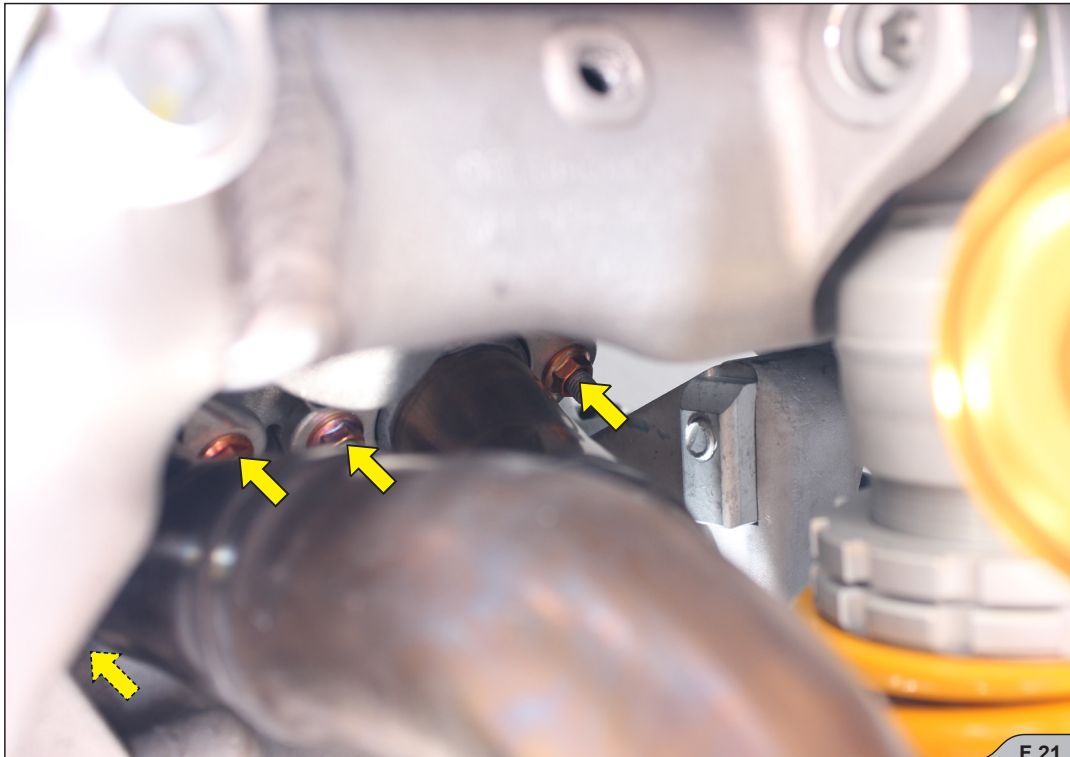
! **CAUTION:** be careful not to injure yourself or damage any part of the motorcycle during this procedure!



F 20

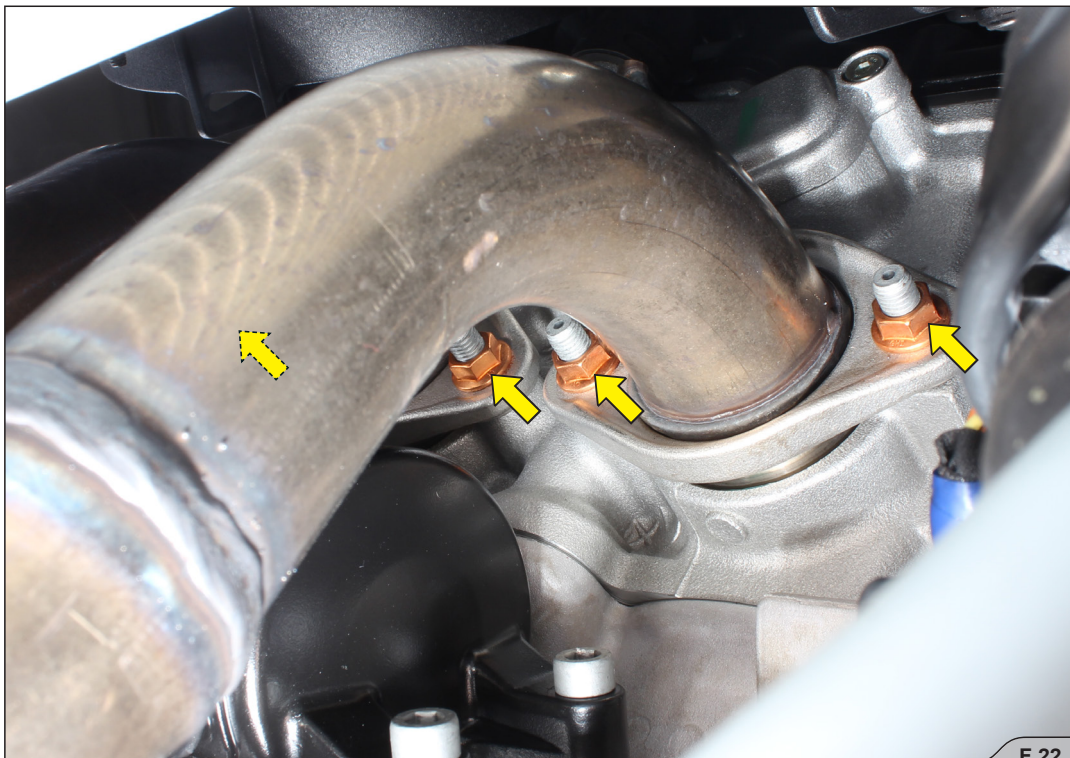
14. Unscrew the rear headers' flange nuts and carefully remove the headers off the motorcycle (F 21).

! **CAUTION:** be careful not to injure yourself or damage any part of the motorcycle during this procedure!



15. Unscrew the front headers' flange nuts and carefully remove the headers off the motorcycle (F 22).

! **CAUTION:** be careful not to injure yourself or damage any part of the motorcycle during this procedure!



16. Unscrew marked bolts on both sides of the motorcycle and remove passenger's foot rests off the motorcycle (F 23).

! **IMPORTANT:** be careful not to damage any part of the motorcycle during this process!

! **CAUTION:** the foot-rest fixing bolts are fixed with bolt sealant. Be careful not to damage yourself or any part of the motorcycle when unscrewing them!

! **IMPORTANT:** repass the threaded holes with M8 hand taps tool, to remove any residue of bolt sealant!



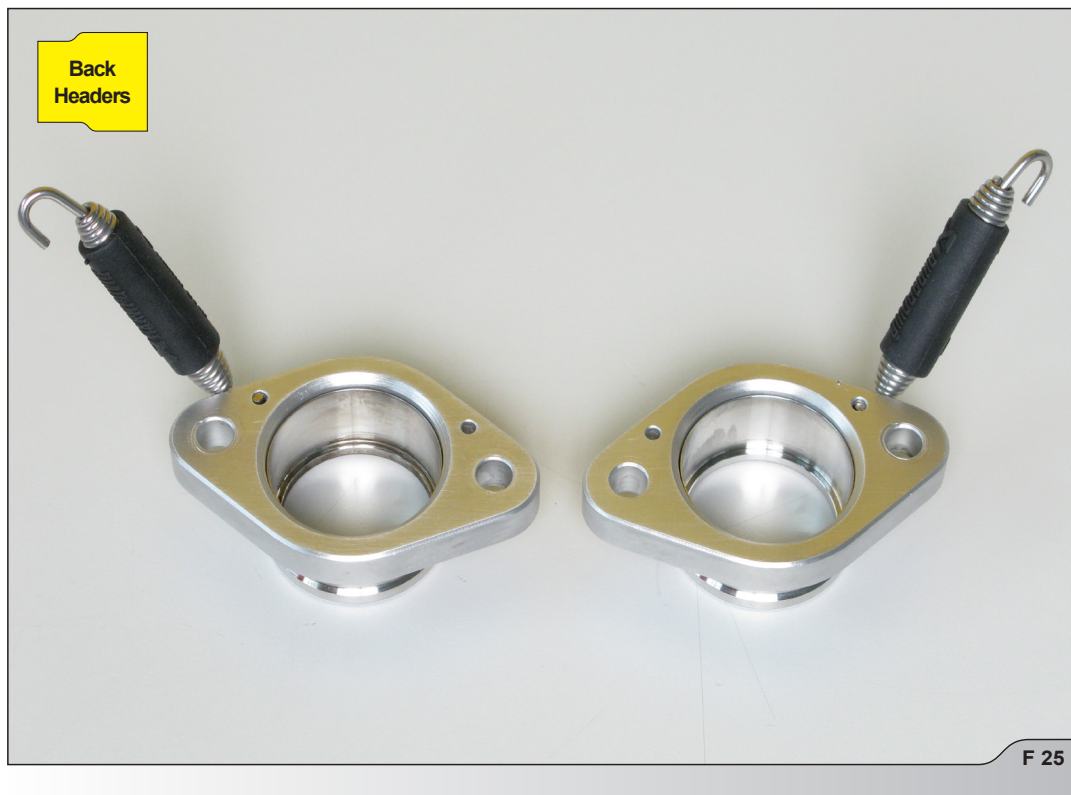
F 23

INSTALLATION OF THE AKRAPOVIČ EXHAUST SYSTEM:

1. Set up the flanges together with the springs and sleeves; make sure you orient the flanges and springs, as shown (F 24, 25).



F 24



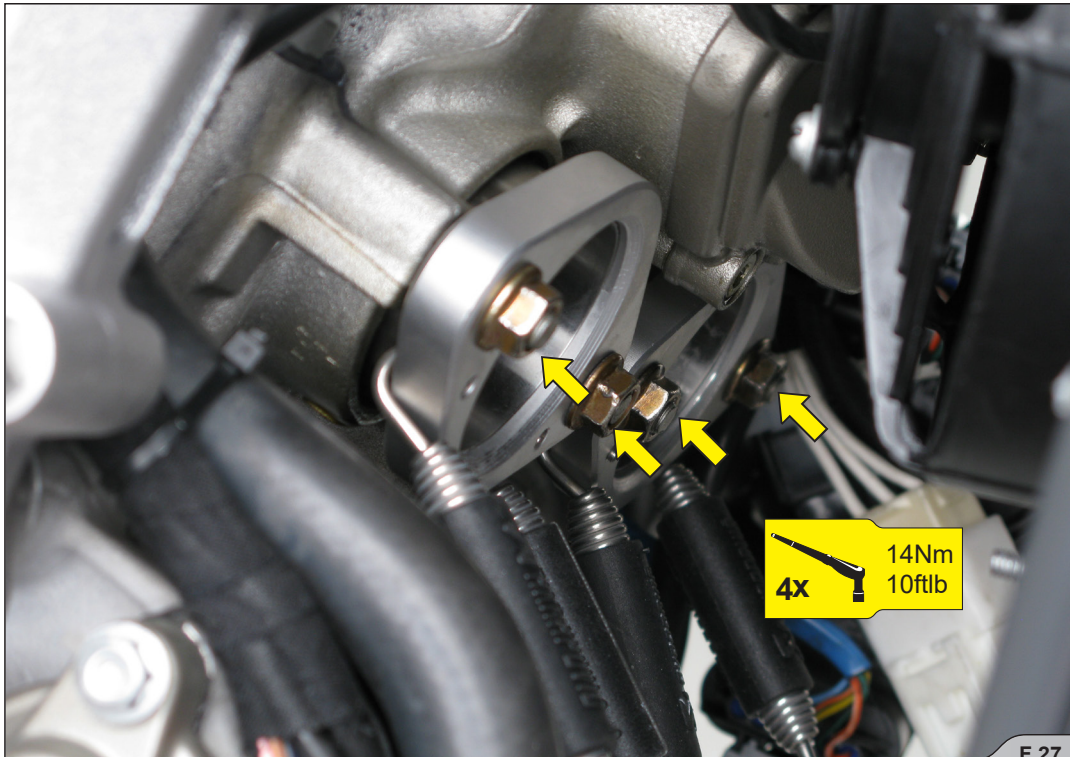
2. Set up the **left rear header** with flange, spring and sleeve; make sure you orient the flange and spring as shown (F 26).



3. Set up and tighten the front header's flanges together with the springs and sleeves onto the front cylinder head, using stock nuts; make sure you orient the flanges and springs as shown (F 27).

! **CAUTION:** be careful not to injure yourself or damage any part of the motorcycle during this process!

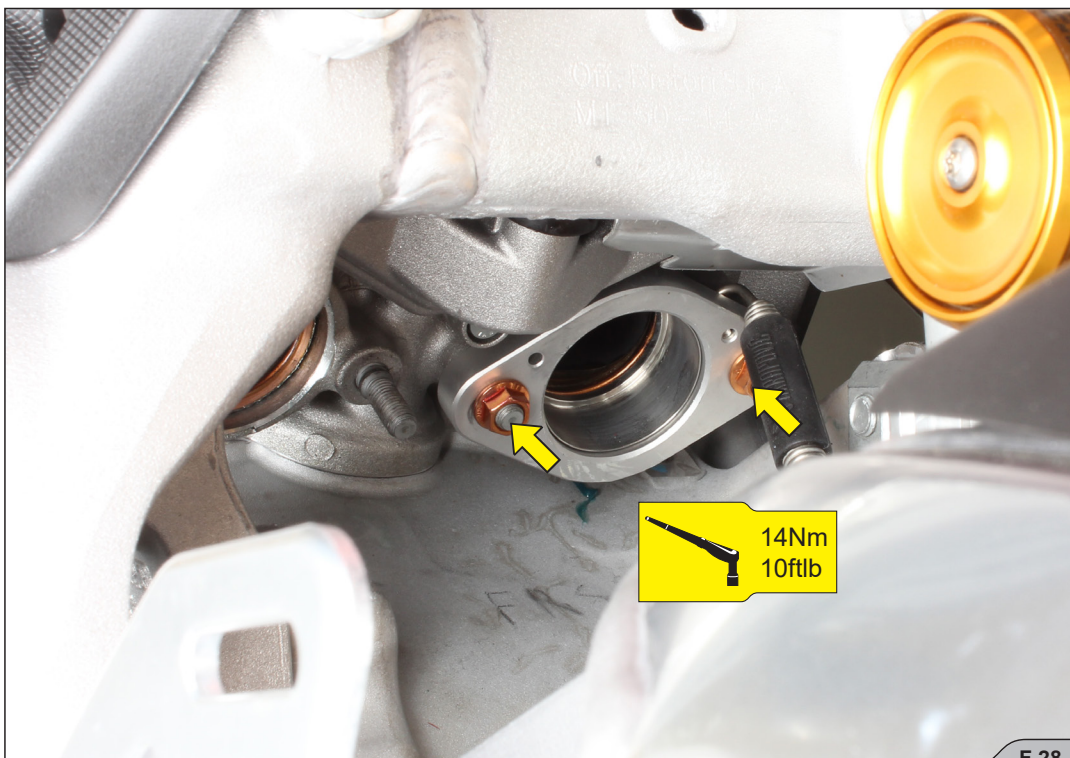
✂ **INSTALLATION TIP:** use new stock exhaust port gaskets.



4. Set up and tighten the **(rear right only!)** header's flange together with the spring and sleeve onto the rear right cylinder head outlet, using stock nuts; make sure you orient the flange and spring as shown (F 28).

! **CAUTION:** be careful not to injure yourself or damage any part of the motorcycle during this process!

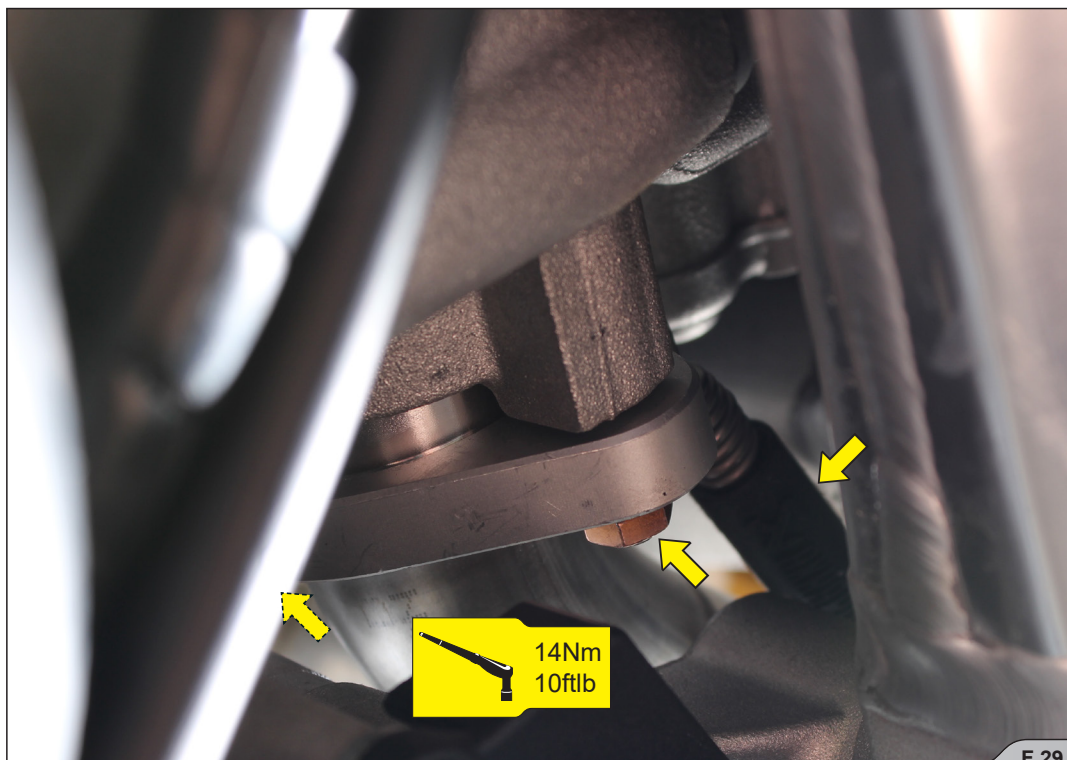
✂ **INSTALLATION TIP:** use new stock exhaust port gasket.



5. Instal the **left rear header** together with sleeve, flange and spring; tighten the flange onto the rear cylinder head, using stock nuts and attach the spring (**F 29**).

! CAUTION: be careful not to injure yourself or damage any part of the motorcycle during this process!

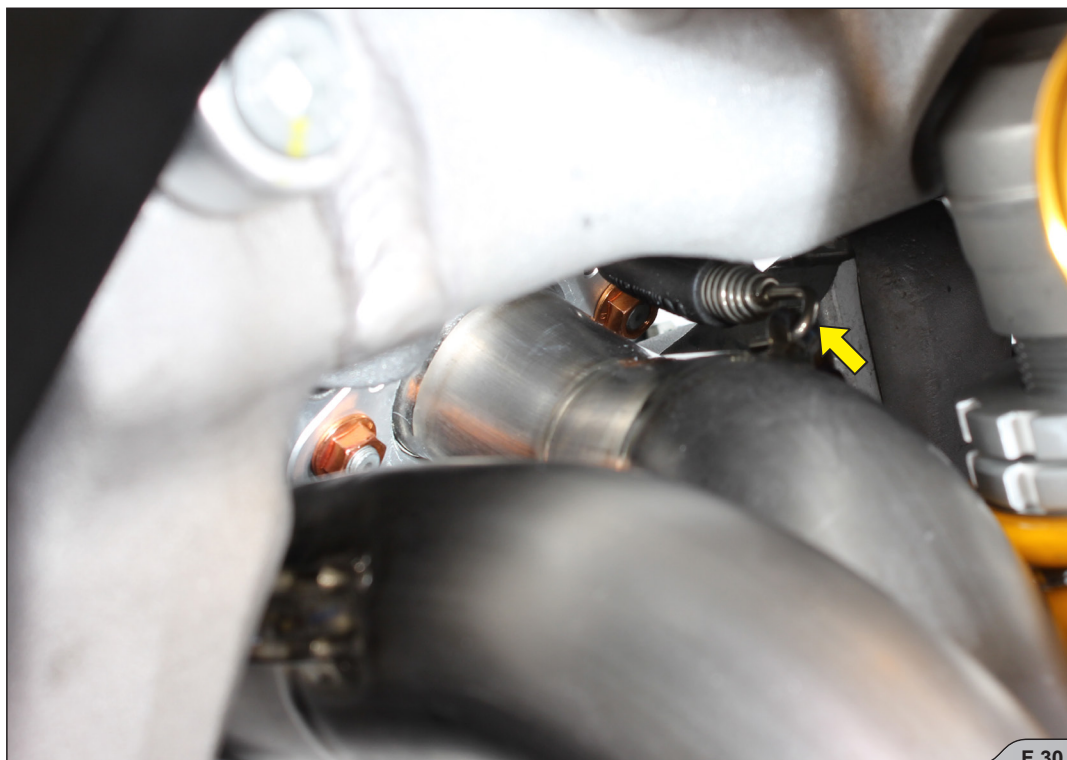
✂ INSTALLATION TIP: use new stock exhaust port gasket.



6. Insert the **right rear header** into the sleeve and attach the spring (**F 30**).

! IMPORTANT: make sure, that spring pull the header tube all the way into the sleeve – use rubber mallet if necessary to tap the connection into place!

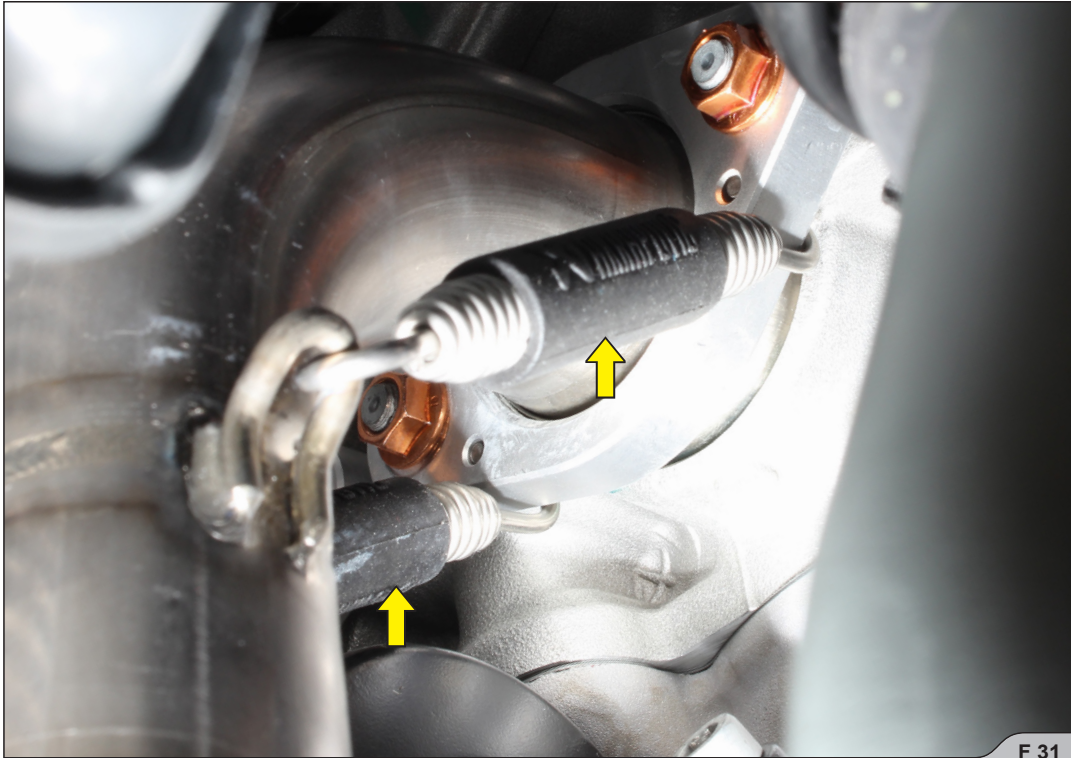
! CAUTION: be careful not to injure yourself or damage any part of the motorcycle during this process!



7. Insert the front headers into the sleeves and attach the springs (F 31).

! **IMPORTANT:** make sure, that springs pull the header tubes all the way into the sleeves – use rubber mallet if necessary to tap the connections into place!

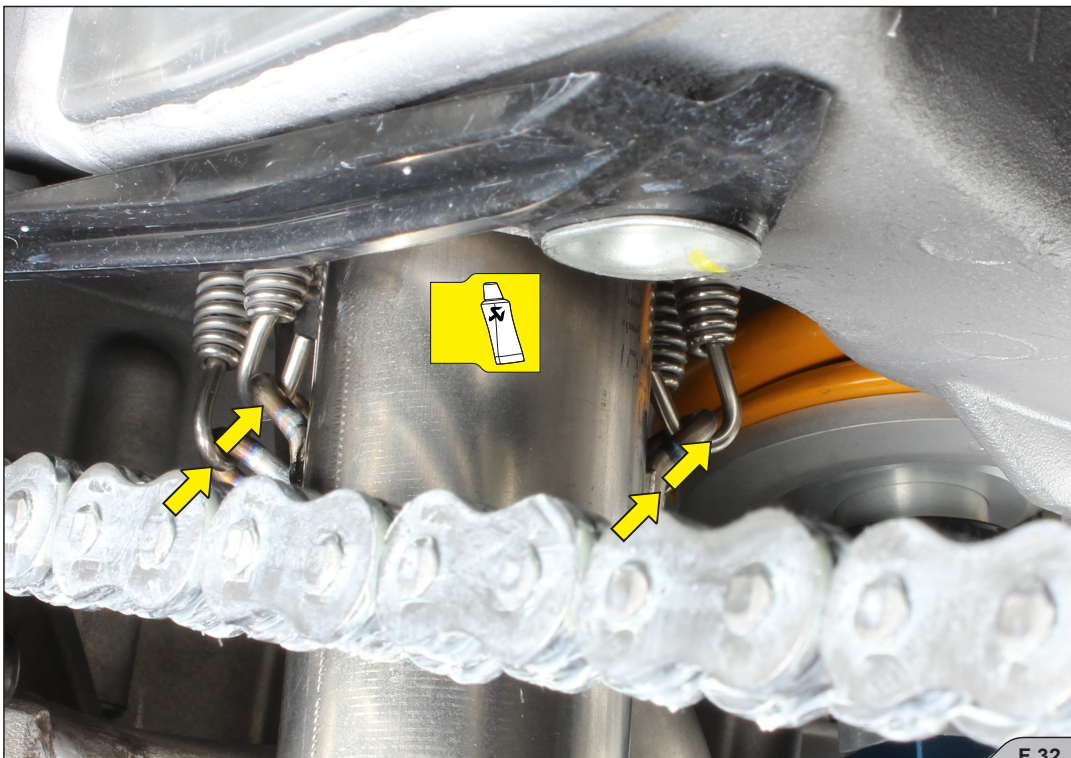
! **CAUTION:** be careful not to injure yourself or damage any part of the motorcycle during this process!



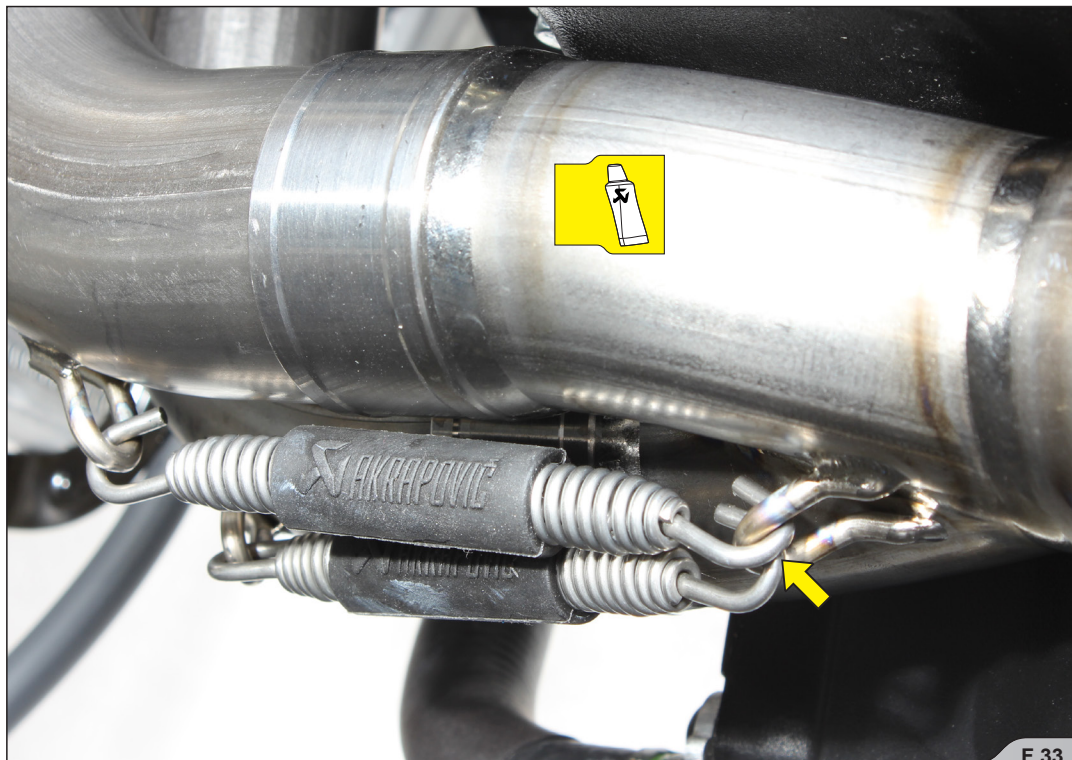
F 31

8. Assemble the collector onto the headers and attach the springs (F 32, 33).

✂ **INSTALLATION TIP:** coat the interior side of the inlet bushes of the titanium collector with Akrapovič ceramic anti-seizing grease (white tube).



F 32



F 33

9. Install and tighten the lambda sensors to the specified torque (F 34).

! **IMPORTANT:** make sure not to damage the lambda sensor's electrical lead during this procedure!

! **CAUTION:** be careful not to injure yourself or damage any part of the motorcycle during this procedure!

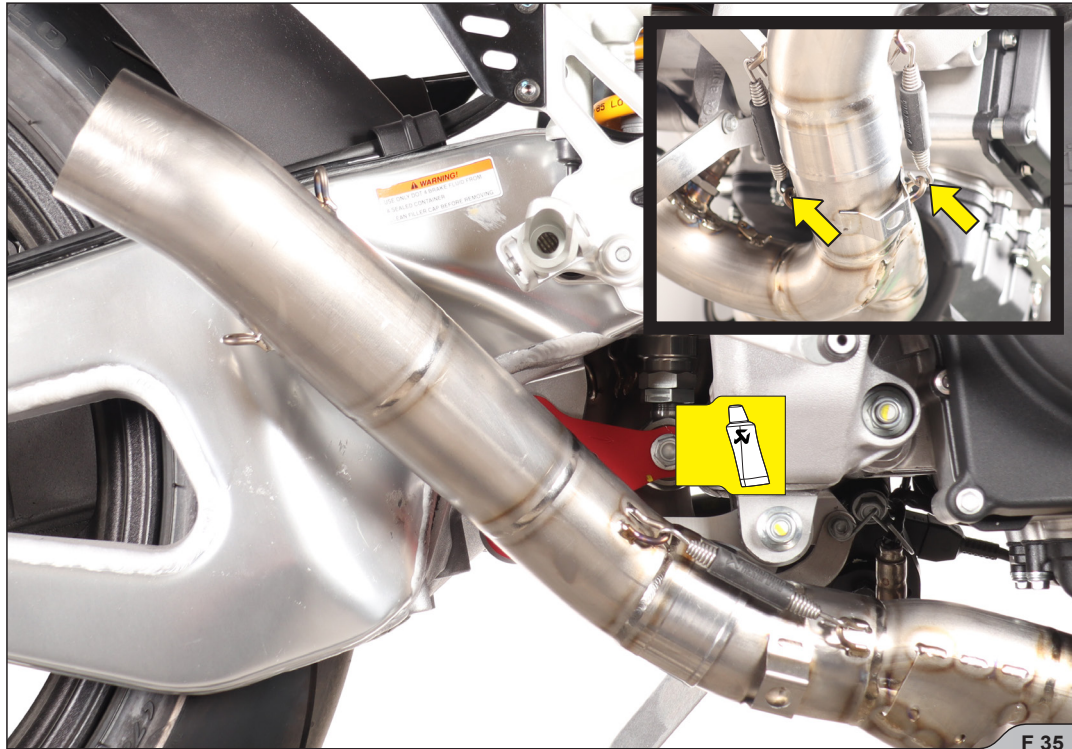


F 34

10. Slide the link pipe onto the collector's outlet and attach the spring (F 35).

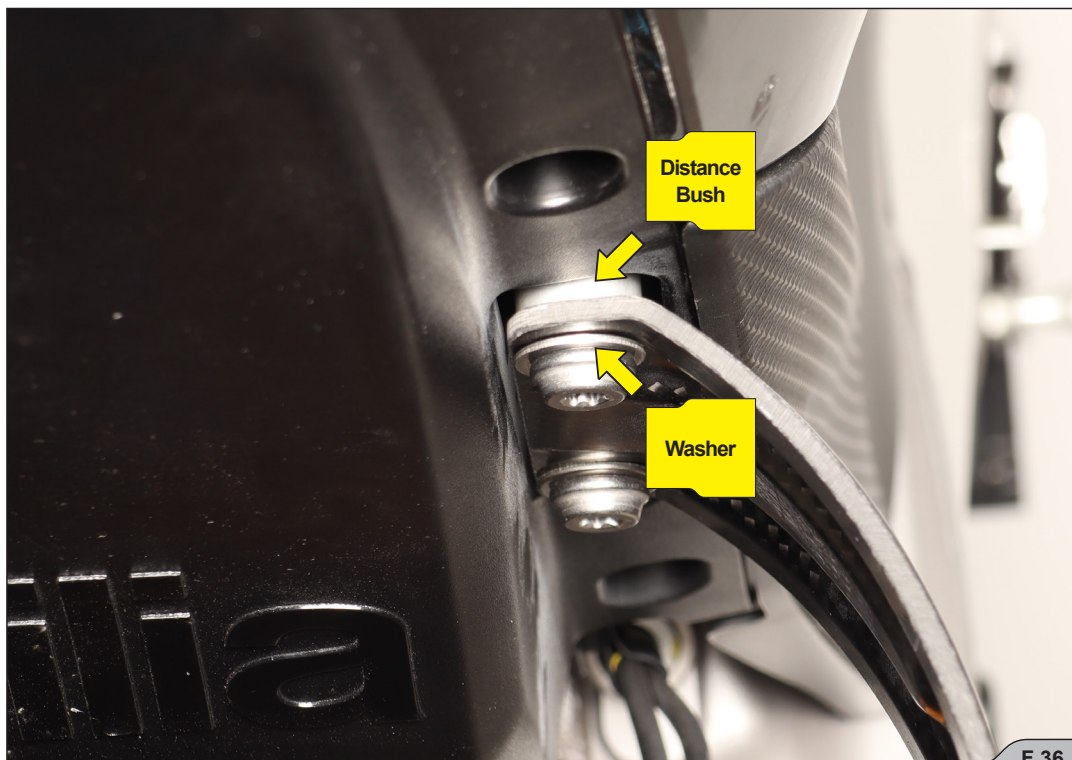
! **IMPORTANT:** make sure, that spring pull the link pipe all the way onto the collector – use rubber mallet if necessary to tap the connection into place!

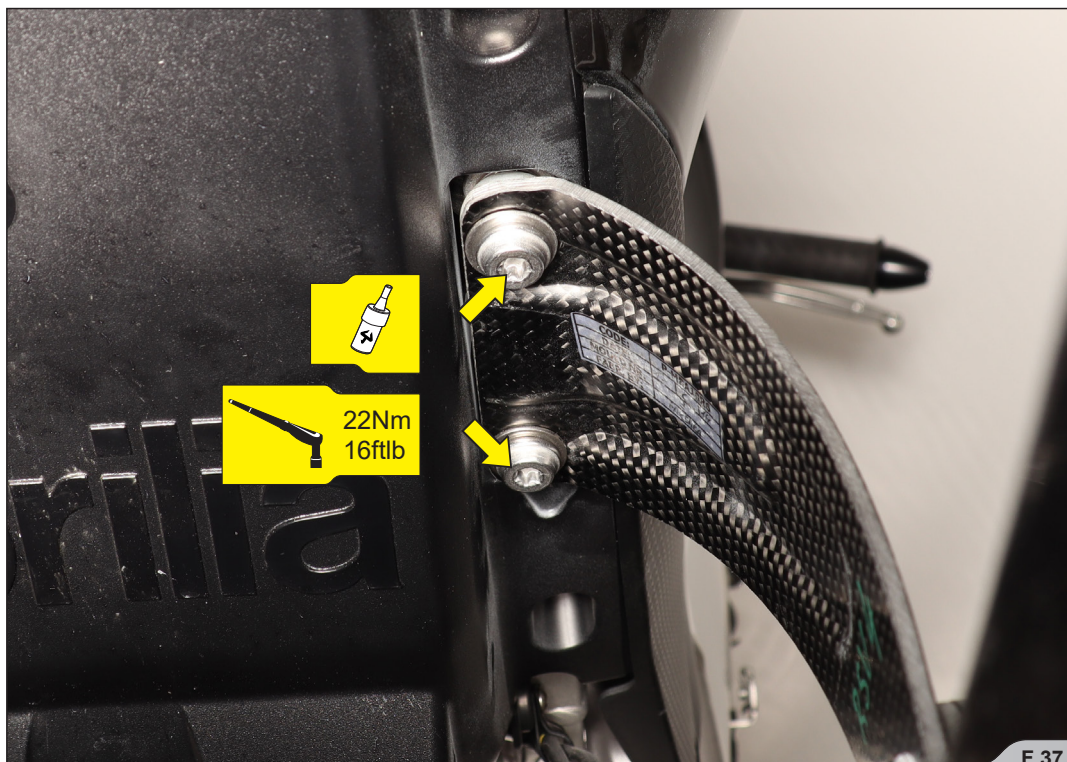
✂ **INSTALLATION TIP:** coat the interior side of the input bush of the titanium link pipe with Akrapovič ceramic anti-seizing grease (white tube).



11. Install the Carbon Fiber Bracket onto the right side of the sub frame, using bolts, washers and Aluminium distance bushes from Akrapovič installation kit (F 36, 37).

! **IMPORTANT:** use bolt sealant on the bolt threads!





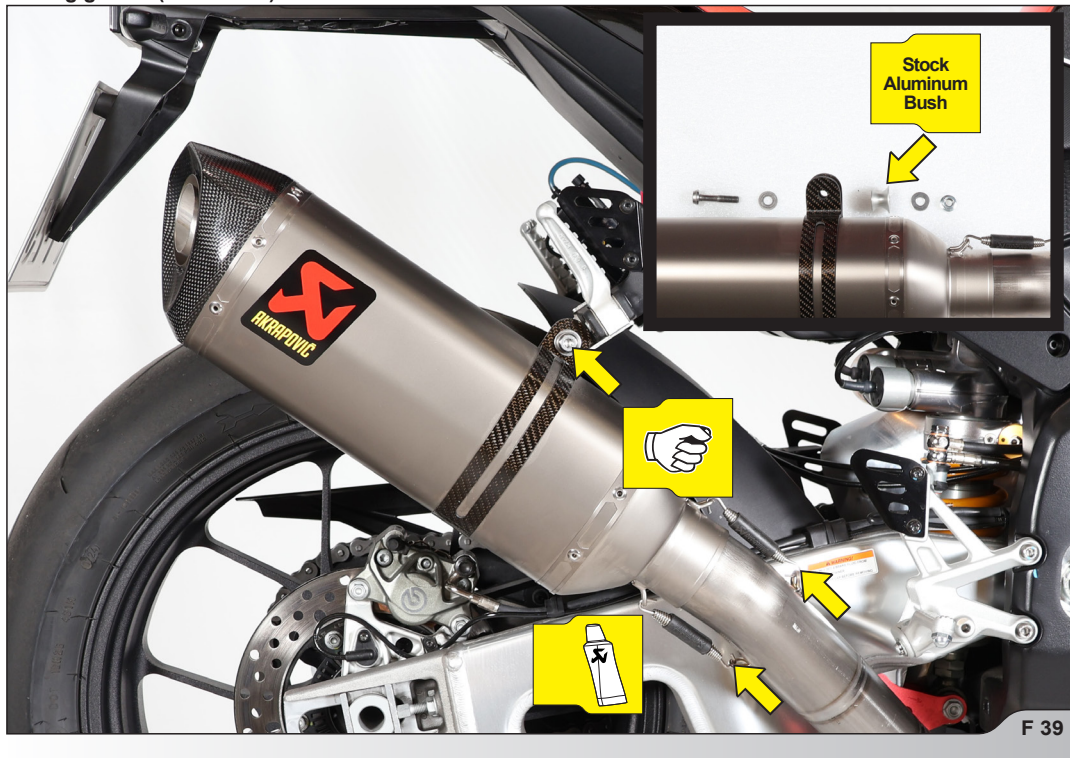
12. Correctly position the carbon-fiber clamp (check the position of the yellow sticker) and carefully slide it onto the muffler (F 38).

! **IMPORTANT:** open the carbon-fiber clamp slightly wider than the diameter of the outer sleeve of the muffler – do not scrape it along the muffler outer sleeve!



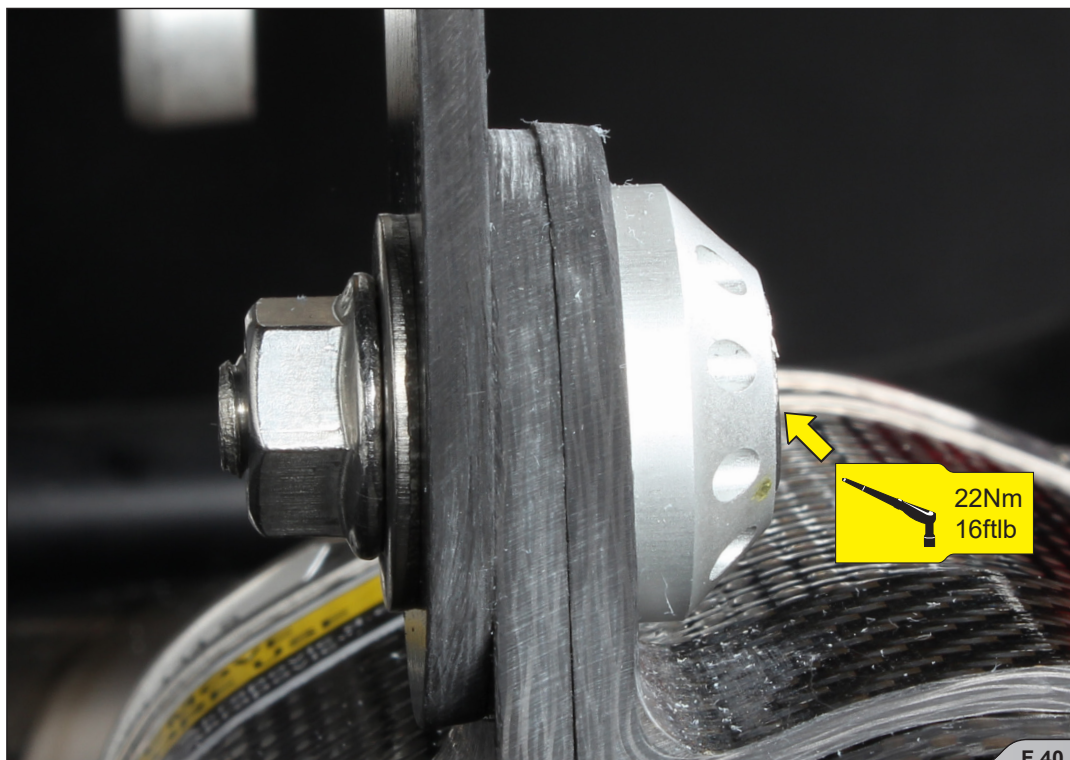
13. Position the muffler correctly, slide it onto the outlet of the link pipe, attach the springs and hand tighten the carbon-fiber clamp onto the muffler's bracket, using bolt, nut and washer from installation kit and stock Aluminium washer (F 39).

! IMPORTANT: be careful not to damage the muffler or any other part of the motorcycle during this process!
W INSTALLATION TIP: coat the interior side of the inlet bushes of the muffler with Akrapovič ceramic anti-seizing grease (white tube).



14. Align the muffler in respect to the motorcycle and tighten the muffler's bracket bolt to the specified torque (F 40).

! IMPORTANT: be careful not to damage any part of the motorcycle or exhaust system during this process!



FINAL INSTALLATION:

1. In case any component of the Akrapovič product is equipped with DMC code sticker, the sticker and glue residue should be removed from the component, before first use!
 2. Clean grease spots off all Akrapovič product's 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 stickers:
 - **Titanium surfaces** (titanium muffler's outer sleeve, titanium pipes etc): use a soft cloth sprayed with a multi-purpose spray lubricant (WD-40® or equivalent)*, then wipe with a soft dry cloth.
 - **Carbon-fiber surfaces** (carbon-fiber outlet cap, carbon-fiber muffler's outer sleeve, carbon-fiber bracket etc): use a soft dry cloth sprayed with all purpose foam cleaner, then wipe with a soft dry cloth.
 - **Painted surfaces** (painted outlet cap, painted muffler's outer sleeve, painted bracket etc): use a soft cloth sprayed with all purpose foam cleaner, then wipe with a soft dry cloth.
 - **Chrome plated surfaces** (chrome plated outlet cap, chrome plated muffler's outer sleeve etc): use a soft cloth sprayed with all purpose foam cleaner, then wipe with a soft dry cloth.
 - **Stainless steel surfaces** (stainless steel muffler's outer sleeve, stainless steel pipes etc): use a soft cloth sprayed with a contact cleaner, then wipe with a soft dry cloth.
- *WD-40® is a trademark of the WD-40 Company.
3. Make sure all the nuts and bolts are sufficiently tightened. In case the Akrapovič product touches the cowling or other parts, repeat the adjustment of the product or contact your authorized dealer.
 4. Reinstall all dismantled or partially removed stock parts (cowlings, radiator etc); check vehicle manufacturer workshop manual for correct procedures and tightening torques.

MAINTENANCE OF THE AKRAPOVIČ PRODUCT:

- ! **IMPORTANT: periodically make sure all the bolts and springs are sufficiently tightened. In case the product touches the cowling or other parts repeat the adjustment of the product or contact your authorized dealer!**
- ! **CAUTION: after running engine for 30 minutes, retighten the bolts of the Akrapovič carbon-fiber heat shield!**
- ! **IMPORTANT: IT IS NORMAL IF WHITE SMOKE COMES OUT OF THE MUFFLER DURING THE FIRST 100 KM AFTER REPLACEMENT.**
- ! **IMPORTANT: A CHANGE IN THE COLOR OF THE EXHAUST SYSTEM IS NORMAL DUE TO THE HIGH TEMPERATURES.**
- ! **CAUTION: DO NOT STAND BEHIND THE MUFFLER AT ANY TIME.**
- ! **IMPORTANT: DO NOT USE AUTOMOTIVE WHEEL CLEANERS OR ANY CLEANING PRODUCTS WHICH CONTAIN ACIDIC ADDITIVES TO CLEAN AKRAPOVIČ PRODUCTS.**
- ! **IMPORTANT: WE RECOMMEND HIGH CAUTION WHEN USING POWER / PRESSURE WASHER FOR CLEANING PAINTED / LACQUERED SURFACES OF THE AKRAPOVIČ PRODUCTS, TO AVOID PAINT / LACQUER DAMAGE.**
- ! **IMPORTANT: ALL AKRAPOVIČ PRODUCTS ARE DEVELOPED AND DESIGNED TO BE USED ON SPECIFIC VEHICLES, FOR THEIR ENTIRE EXPECTED LIFETIME. PLEASE MAKE SURE THAT END-OF-LIFE AKRAPOVIČ PRODUCT IS DISASSEMBLED TO COMPONENTS SHOWN IN THE PRODUCT'S SCHEMATIC DIAGRAM AVAILABLE ON THE AKRAPOVIČ WEBSITE AND EACH COMPONENT SCRAPPED RESPONSIBLY AND ACCORDING TO APPLICABLE LOCAL LAWS AND REGULATIONS. AKRAPOVIČ DOES NOT ASSUME ANY OBLIGATION OR RESPONSIBILITY WITH RESPECT TO THE SCRAPPING PROCESS OR PROVIDING INFORMATION RELATED THERETO.**



IMPORTANT: IN CASE OF CONTAMINATION WITH GASOLINE, ALL PAINTED/LACQUERED SURFACES OF THE AKRAPOVIČ COMPONENTS MUST BE WIPED WITH SOFT, ABSORBENT CLOTH IMMEDIATELY!

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

