



Installation instructions

Akrapovič Exhaust System
Evolution
for the
Ducati 899 Panigale
Ducati 1199 Panigale



503760



EN
Revision 1.0 02/2016

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.

Akrapovič exhaust system should only be installed by persons skilled in motorcycle 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 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 exhaust system or this manual, please contact your local Akrapovič partner.

For more information on the Akrapovič exhaust systems, 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 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, use or maintenance that is not in accordance with this Installation manual, 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 suitable for use on public roads any longer), as well as warranty coverage.

The exhaust system 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 exhaust system 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 exhaust systems and related products are subject to change without notice.

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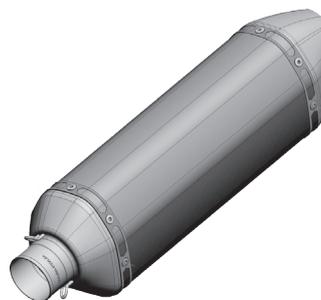
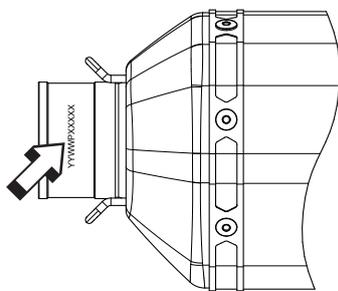
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SAFETY AND COMPLIANCE WARNING, PLEASE READ CAREFULLY

BEFORE REMOVING THE STOCK EXHAUST SYSTEM AND BEGINNING THE INSTALLATION OF YOUR NEW AKRAPOVIČ EXHAUST, 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 **EXHAUST SYSTEM AND THIS INSTALLATION MANUAL CORRESPOND TO THE TYPE OF YOUR MOTORCYCLE.**
- 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.**
- 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 EXHAUST SYSTEM. IF ANY OF THE PARTS IS MISSING, PLEASE DO NOT PROCEED WITH UNINSTALLING YOUR STOCK EXHAUST SYSTEM/ INSTALLING THE AKRAPOVIČ EXHAUST SYSTEM AND CONTACT THE RETAILER WHERE YOU PURCHASED THE AKRAPOVIČ EXHAUST SYSTEM.
- ALWAYS **SECURE YOUR MOTORCYCLE'S GROUND CLEARANCE.** FOR ADVANCED USERS, WE RECOMMEND YOU CHECK THE MOTORCYCLE SPRING PRELOAD SETTINGS TO OPTIMIZE GROUND CLEARANCE WHERE POSSIBLE.
- 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.



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 exhaust system complies 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 exhaust system 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 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. 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 exhaust 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 exhaust system 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.

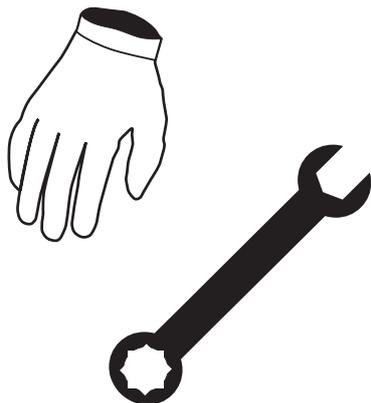
USE ANTI-SEIZING GREASE (white tube)



Prevents seizing, corrosion and excessive wear between the titanium components of your exhaust system.

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

Tools & equipment



- Combination 17 mm wrench
- T-handle 3 mm three hexagon wrench
- T-handle 4 mm three hexagon wrench
- T-handle 5 mm three hexagon wrench
- T-handle 6 mm three hexagon wrench
- Ball head 6 mm offset hexagon wrench
- T-handle swivelling 5 mm hexagon wrench
- T-handle swivelling 6 mm hexagon wrench
- T-handle swivelling 10 mm wrench
- T-handle 13 mm wrench
- Socket 7 mm
- Socket 10 mm
- Spring puller
- Cutting nippers

PARTS LIST

The following parts should be found in the box:

- Installation Manual
- Homologation certificate/ compliance documents if applicable
- Warranty
- Fitting material
- Muffler and pipes

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:

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.

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, warranty coverage of such exhaust system or vehicle or their further fitness for use.

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

REMOVAL OF STOCK EXHAUST SYSTEM:

1. Put the motorcycle on a side stand, we recommend a racing stand. Make sure, that surface is solid and flat.
2. Carefully unscrew the marked lambda sensor (Figure 1).

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

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



Figure 1

3. Unscrew the marked bolts and remove the passenger's foot rests (Figure 2).

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



Figure 2

4. Unscrew the marked bolts on both sides and remove the lower part of the cowling off the motorcycle (Figure 3, 4).
! IMPORTANT: be careful not to damage any part of the motorcycle during this process!

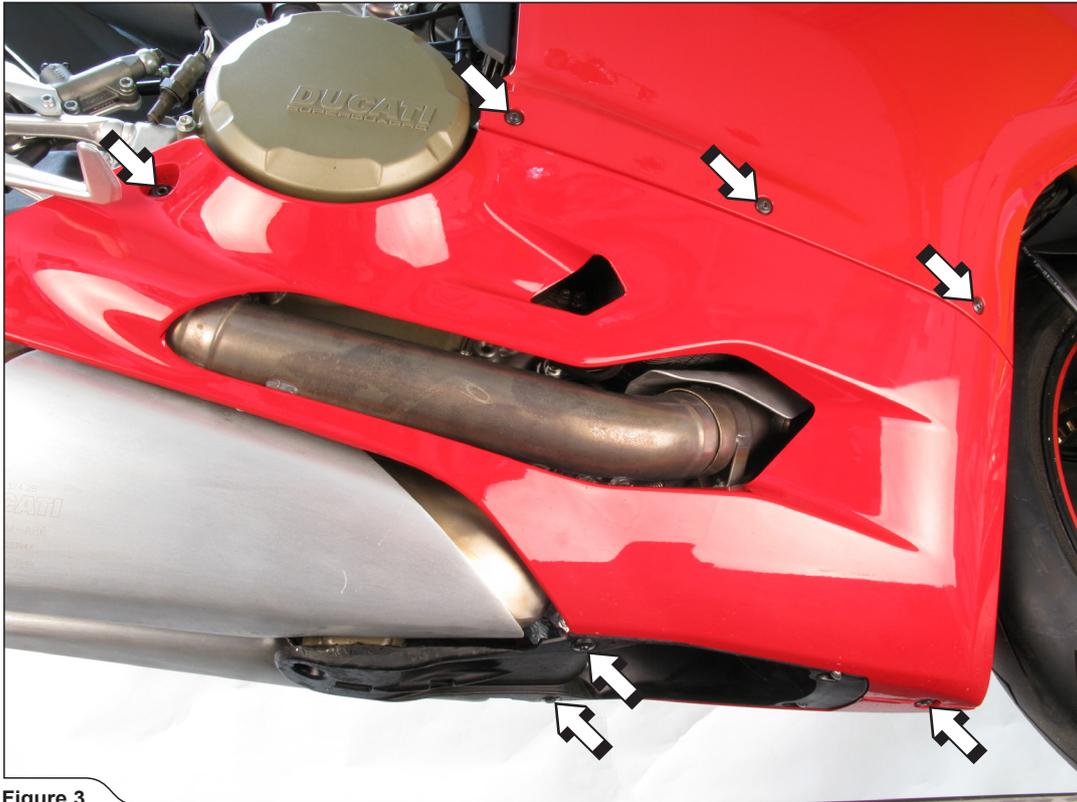


Figure 3



Figure 4

5. Unscrew the marked bolts and nuts on both sides. Carefully remove the muffler off the motorcycle (Figure 5, 6).
! **IMPORTANT: support the muffler during this process!**
! **IMPORTANT: be careful not to damage any part of the motorcycle during this process!**



Figure 5

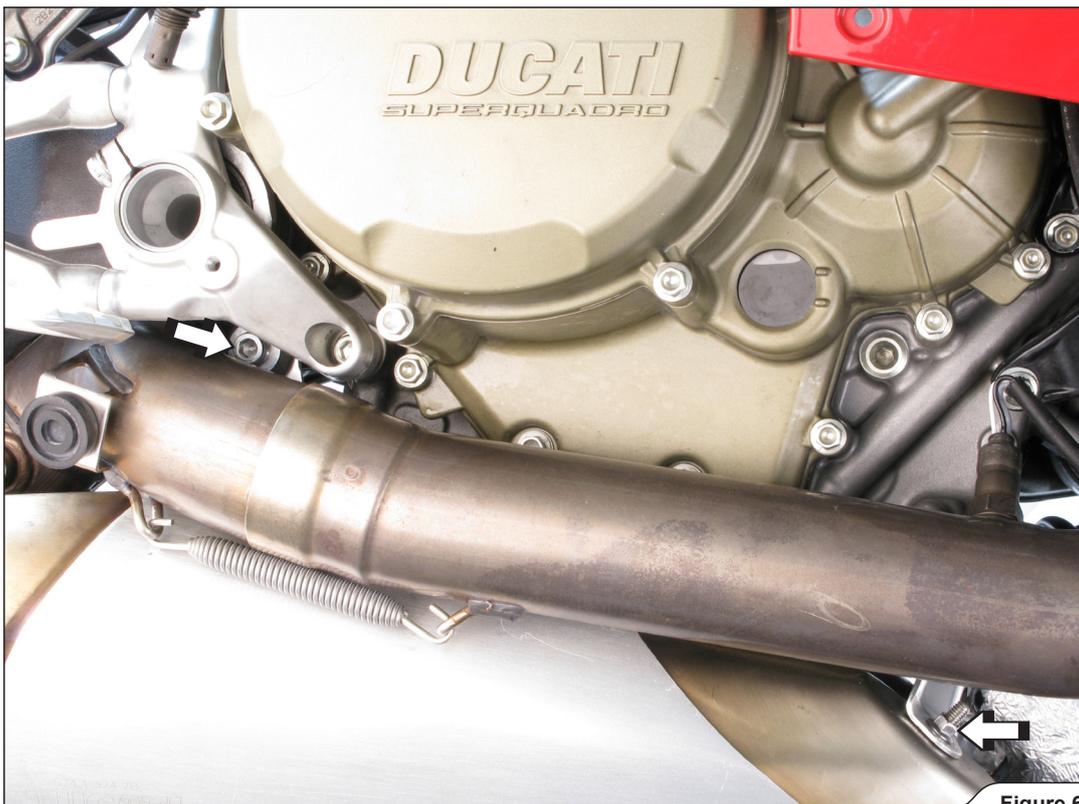


Figure 6

6. Undo the marked circlip and remove the cable off the valve (**Figure 7**).
! **IMPORTANT:** be careful not to damage any part of the motorcycle during this process!



Figure 7

7. Disconnect the marked connectors (**Figure 8**).
! **IMPORTANT:** be careful not to damage any part of the motorcycle during this process!

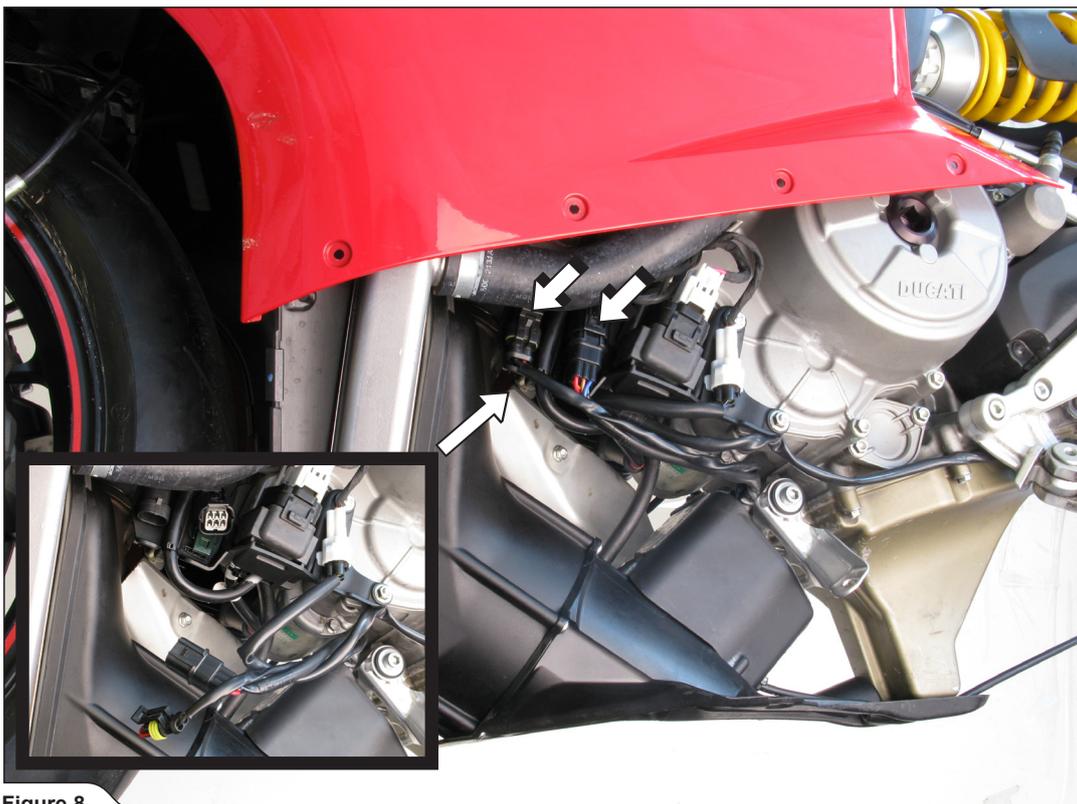


Figure 8

8. Unscrew the marked bolts and remove the exhaust valve's servo motor with cable off the motorcycle (Figure 9, 10).
! IMPORTANT: be careful not to damage any part of the motorcycle during this process!



Figure 9

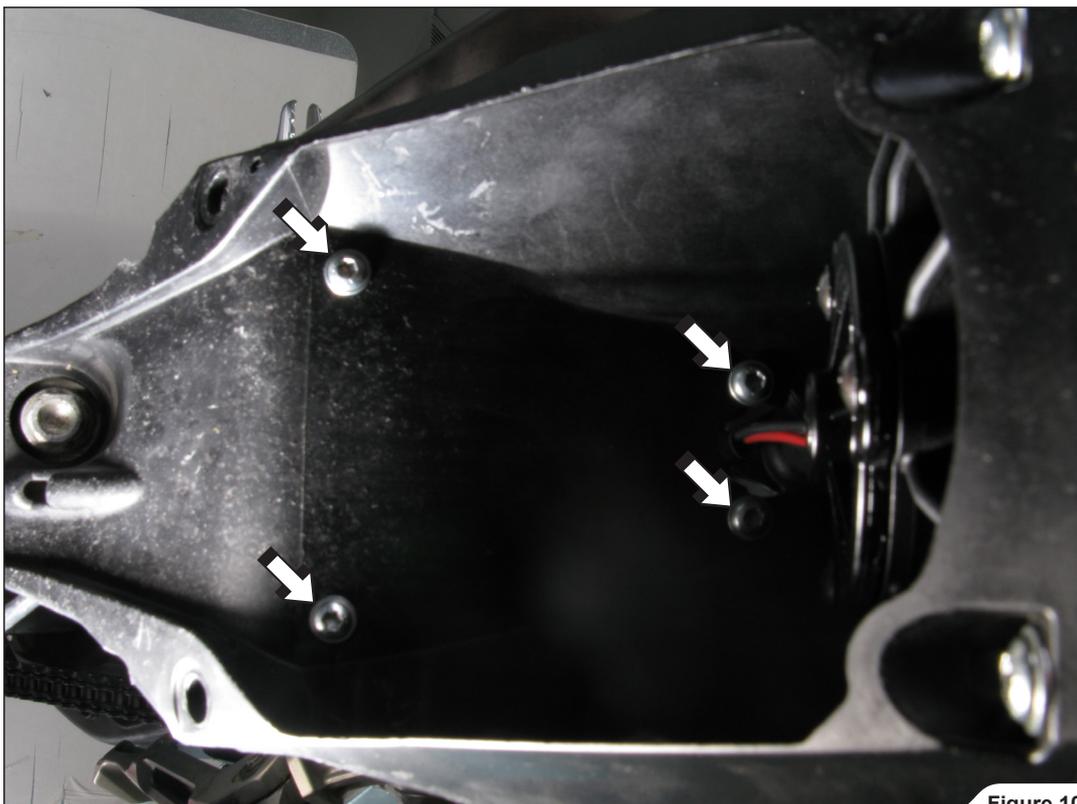


Figure 10

9. Reconnect the cooling fan's connector and secure the electrical leads as shown, using tie wrap from Akrapovič installation kit (Figure 11).

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

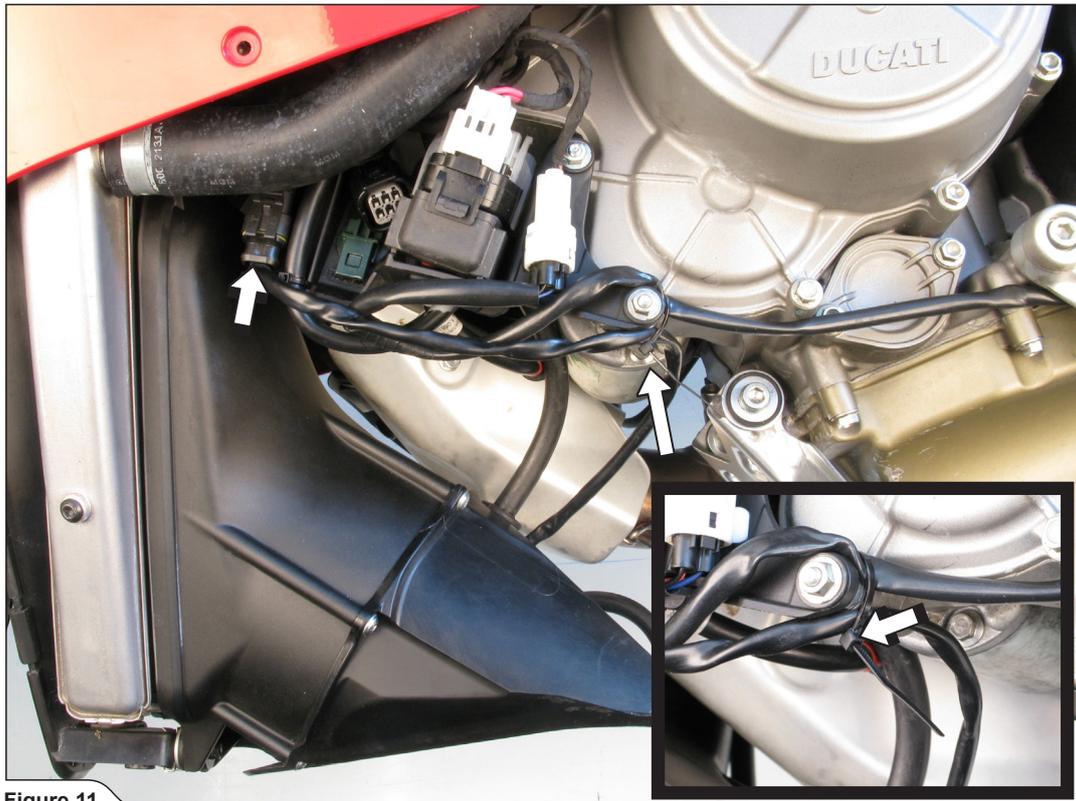


Figure 11

10. Unscrew the muffler's bracket and tighten the plastic protection back onto the oil sump (Figure 12).

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

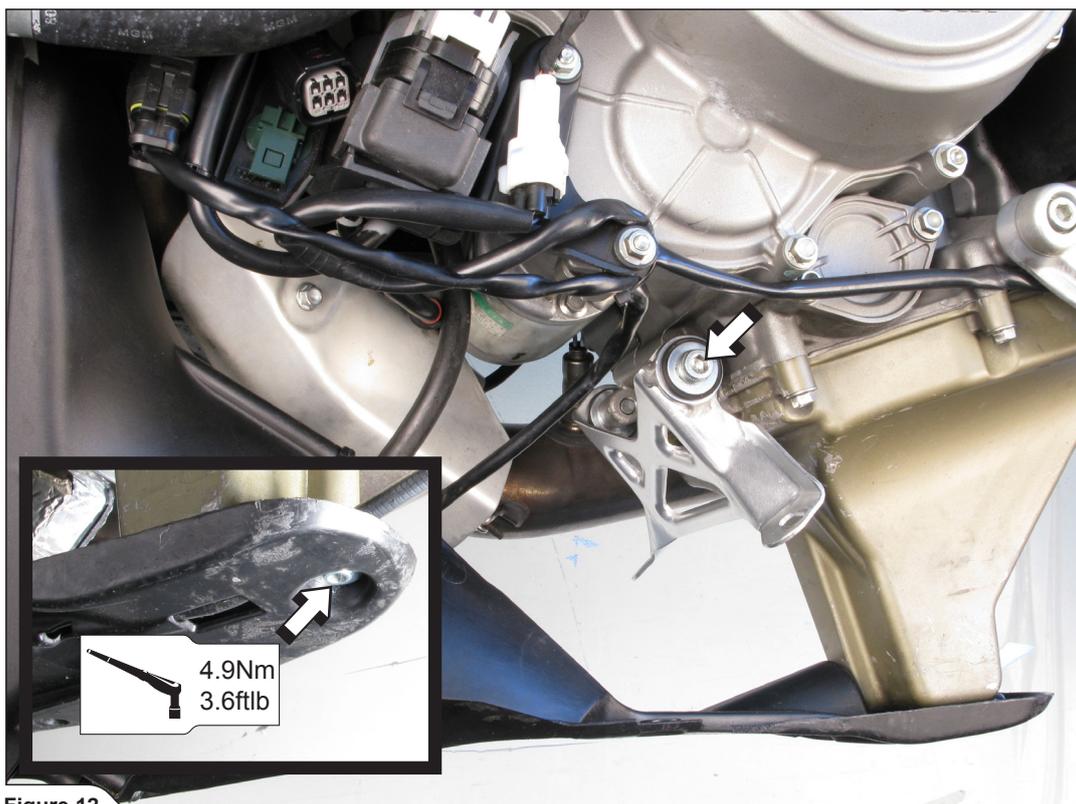


Figure 12

11. Carefully unscrew the front lambda sensor (Figure 13).

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



Figure 13

12. Undo the marked spring (Figure 14).

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

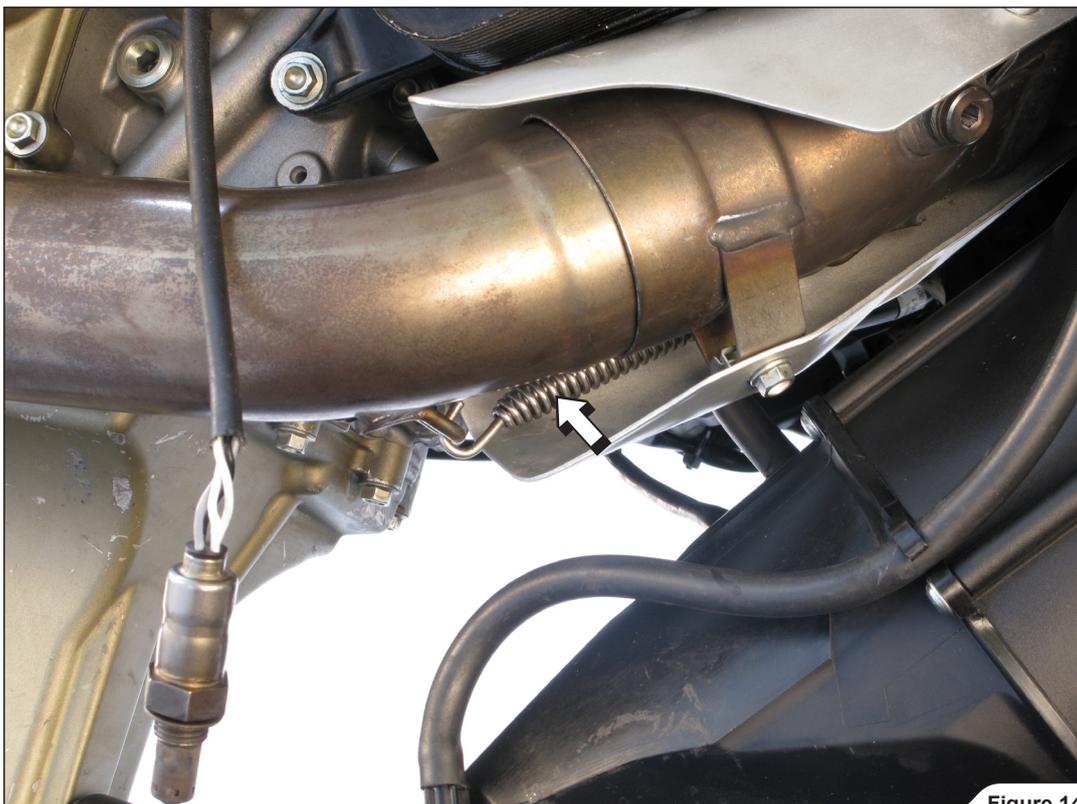


Figure 14

13. Undo the marked springs and carefully remove the collector with front link pipe off the motorcycle (Figure 15).

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

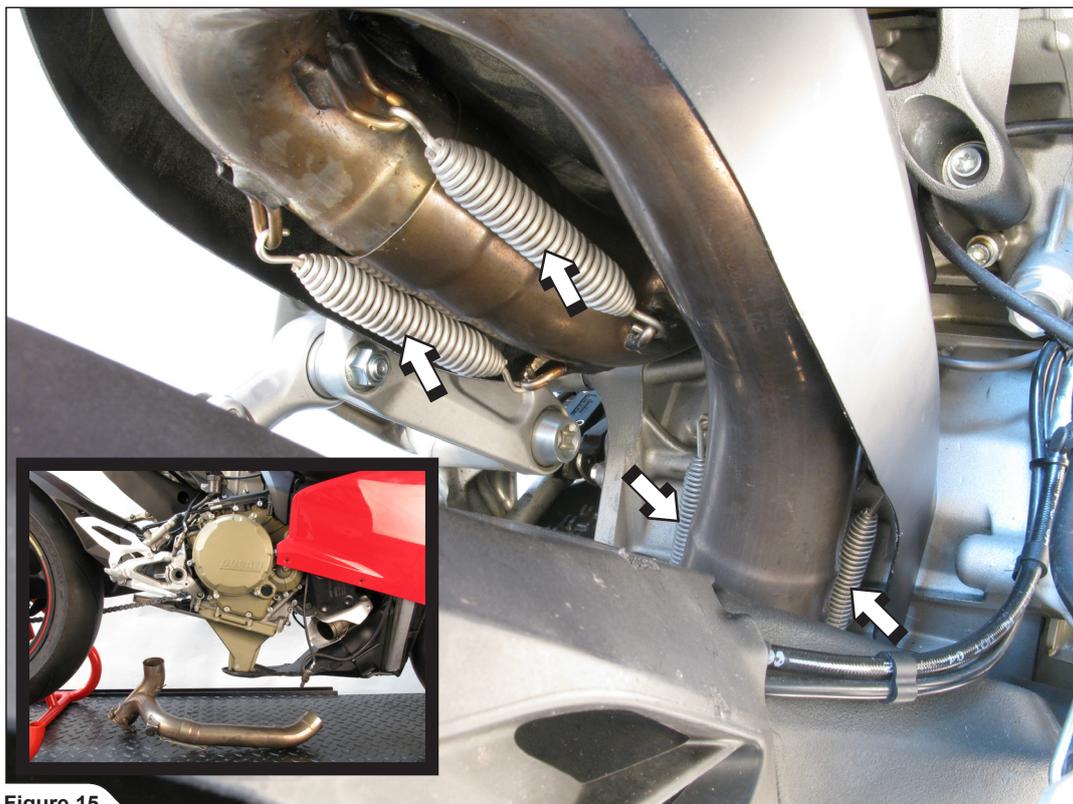


Figure 15

14. Partially remove the rear link pipe. Unscrew the heat shield and remove the rear link pipe off the motorcycle (Figure 16).

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



Figure 16

15. Unscrew the marked nuts and carefully remove both header pipes off the motorcycle (Figure 17, 18).

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

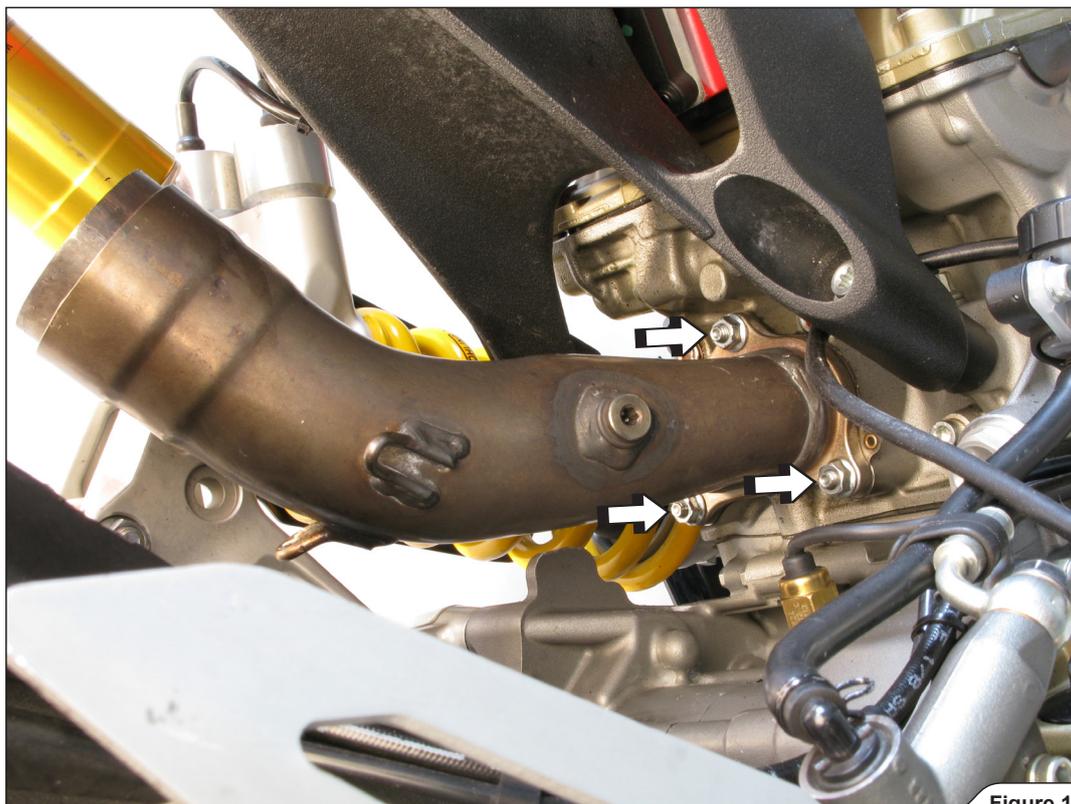


Figure 17

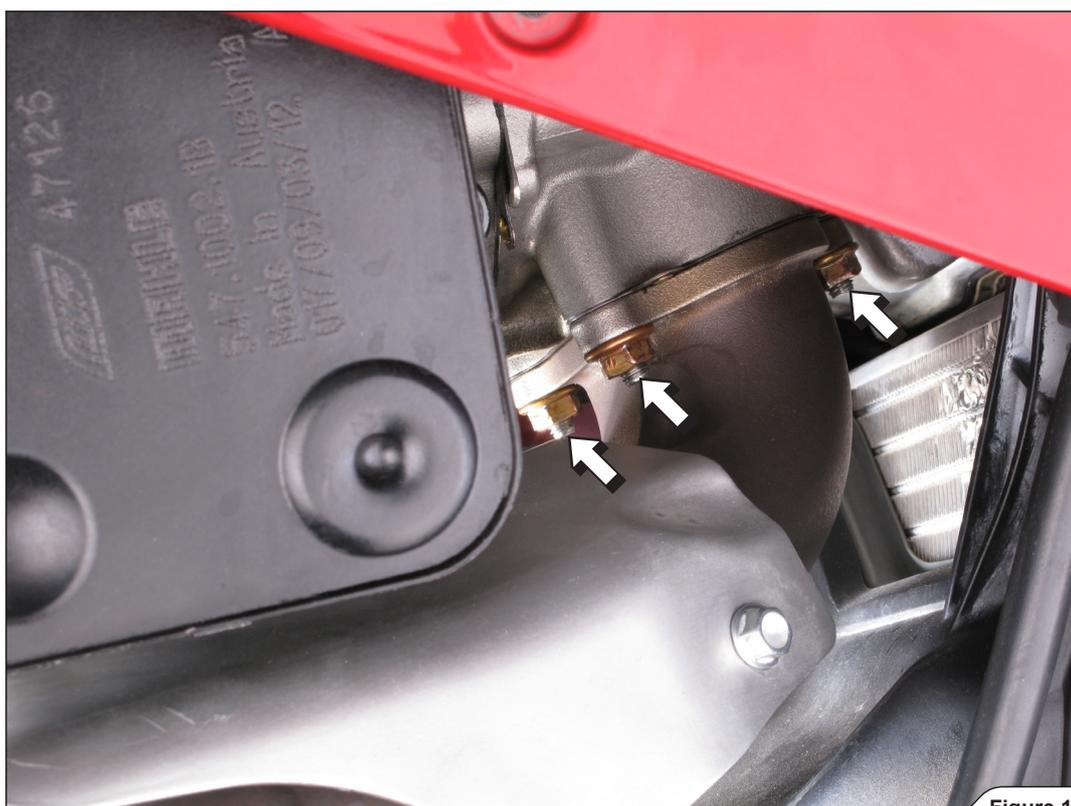


Figure 18

16. Unscrew the heat shields and remove the press-on nuts from front header (Figure 19).

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

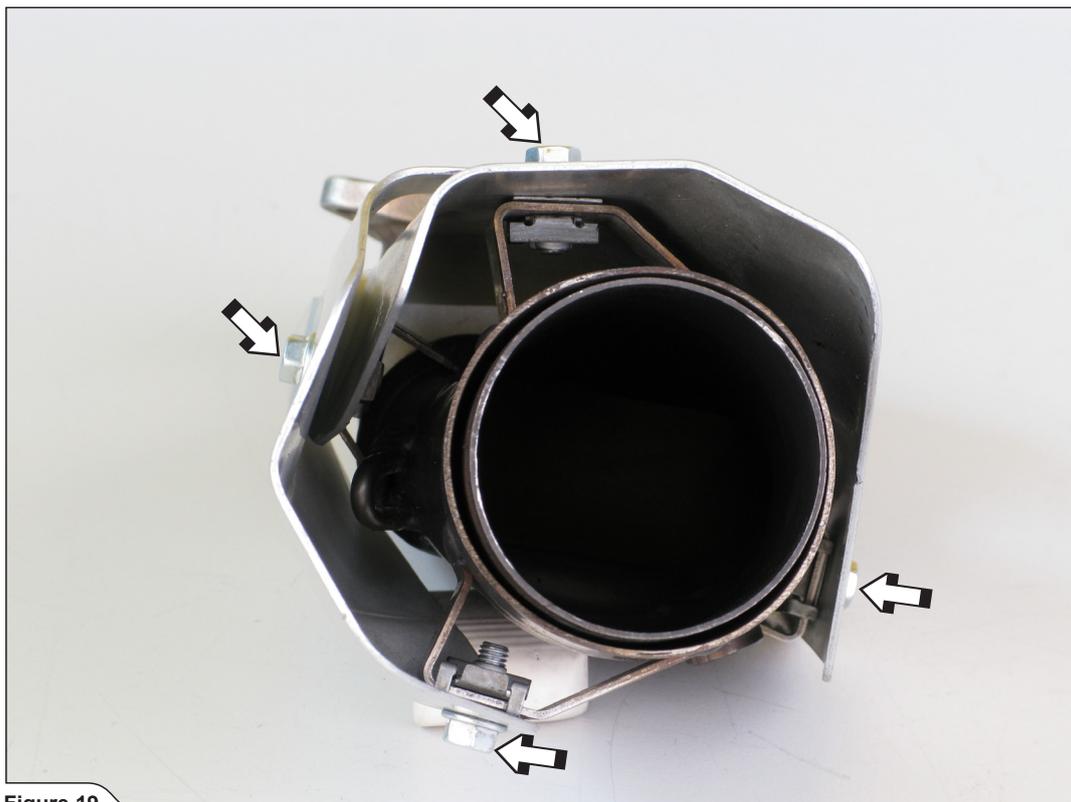


Figure 19

INSTALLATION OF THE AKRAPOVIČ EXHAUST SYSTEM:

1. Assemble the stock heat shields onto the front header pipe, using stock press-on nuts and additional clamp and bolts from Akrapovič installation kit; attach the spring as shown (Figure 20, 21).

! **IMPORTANT:** tighten the heat shields' bolts first, then tighten the clamp!

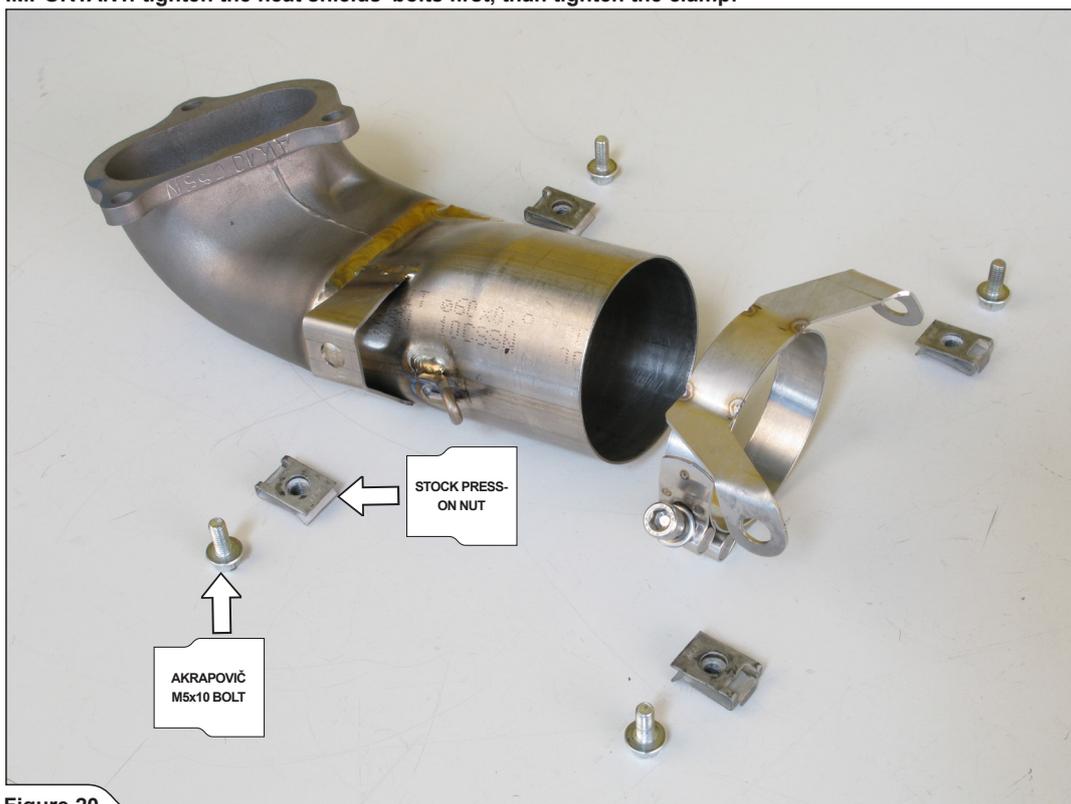


Figure 20

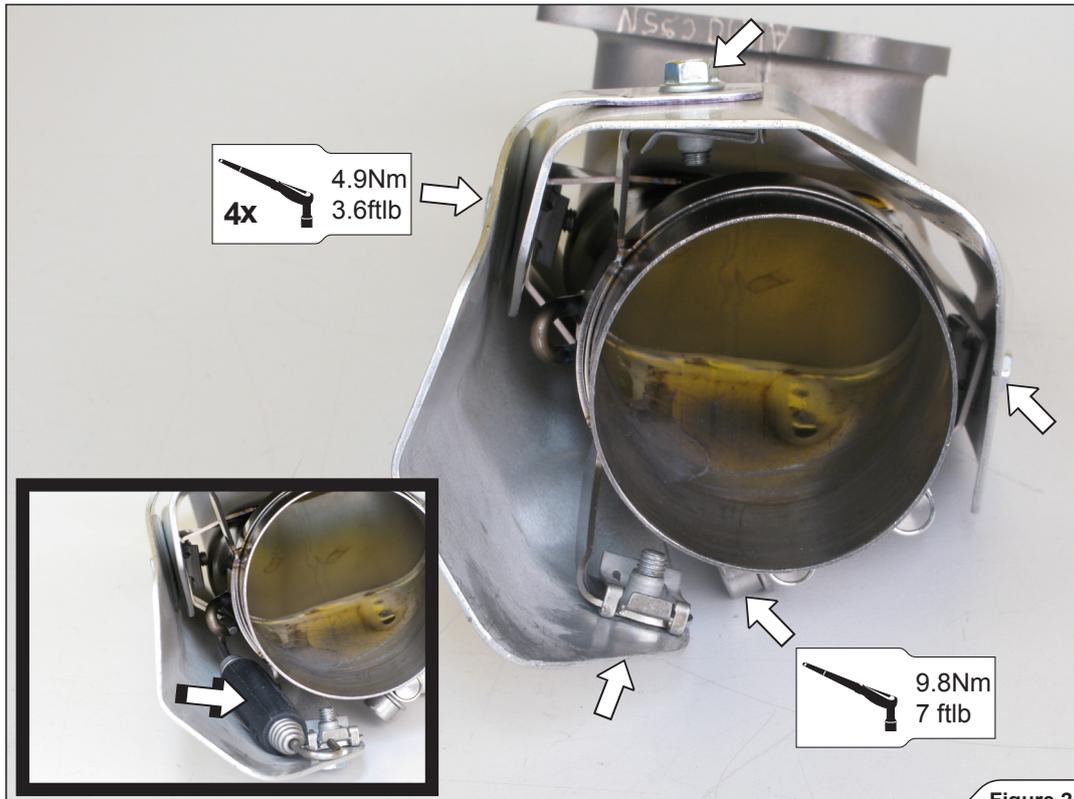


Figure 21

2. Hand tighten the front header onto the cylinder head, using stock nuts (Figure 22).

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

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

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



Figure 22

3. Tighten the rear header onto the cylinder head, using stock nuts (Figure 23).

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

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

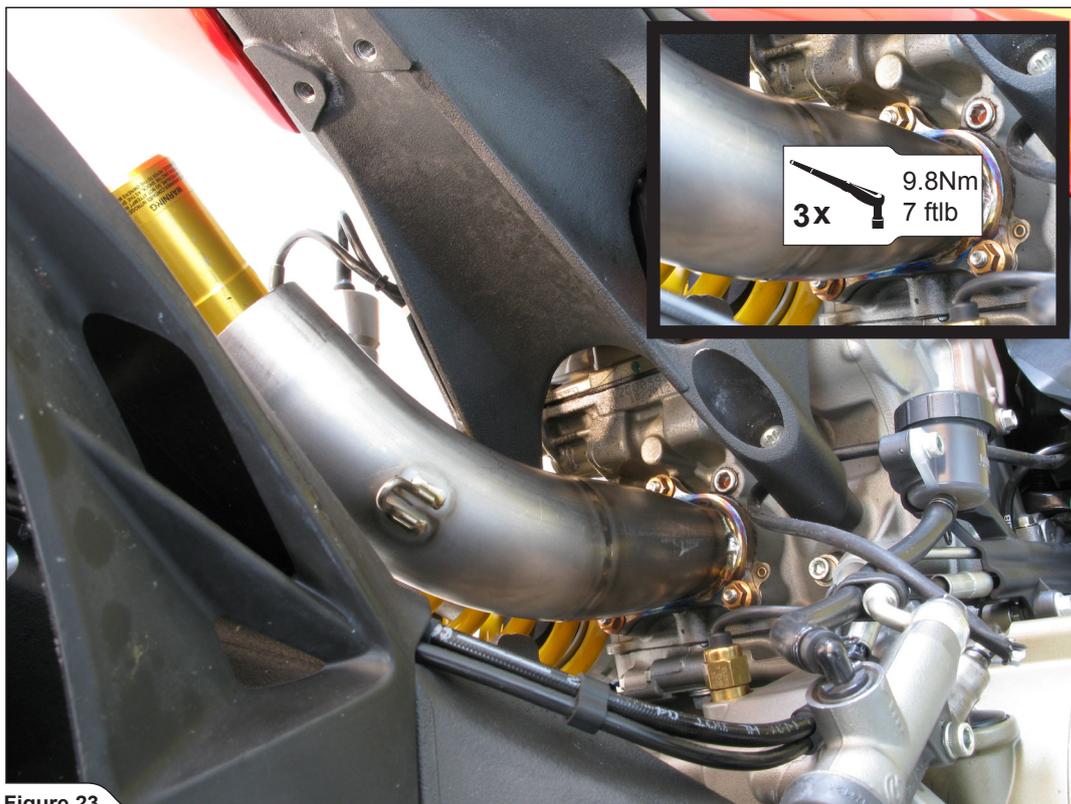


Figure 23

4. For use of passengers foot rests only: carefully cut/grind the impressed part of the carbon fiber heat shield, as shown (Figure 24).

✂ **INSTALLATION TIP:** use pneumatic die grinder or equivalent for cutting/grinding.

! **CAUTION:** be careful not to injure yourself or damage the heat shield during this process! Use personal protection equipment!

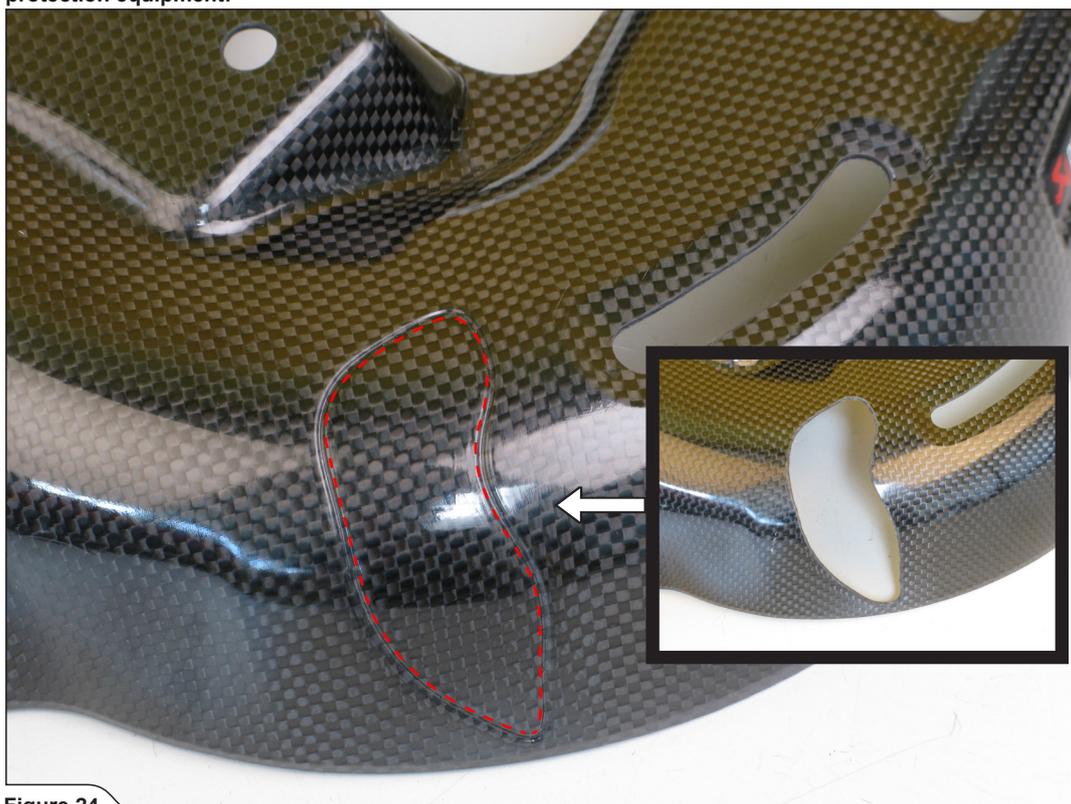


Figure 24

5. **For use of passengers foot rests only:** install the heat shield and passengers foot rests onto the sub-frame using spacers, bolts and washers from Akrapovič installation kit (**Figure 25, 26, 27**).

! **IMPORTANT:** use Akrapovič bolt sealant on the marked bolts' threads!

! **IMPORTANT:** make sure to correctly assemble the spacers (**Figure 25**)!

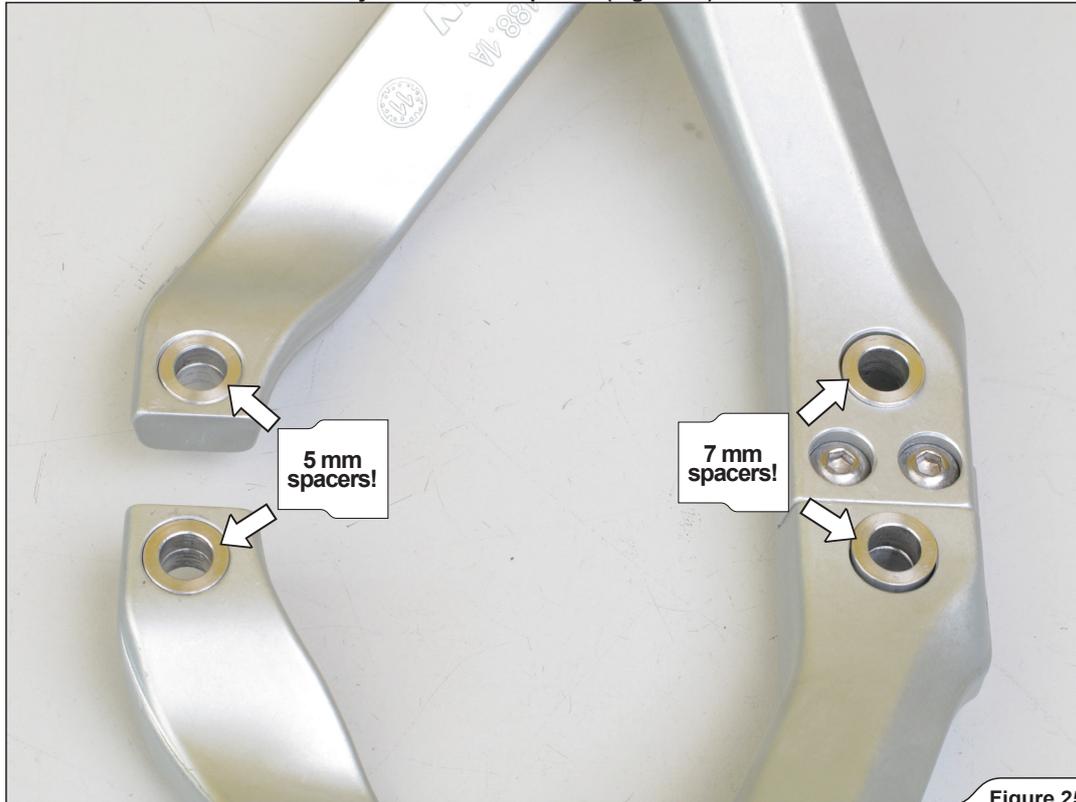


Figure 25

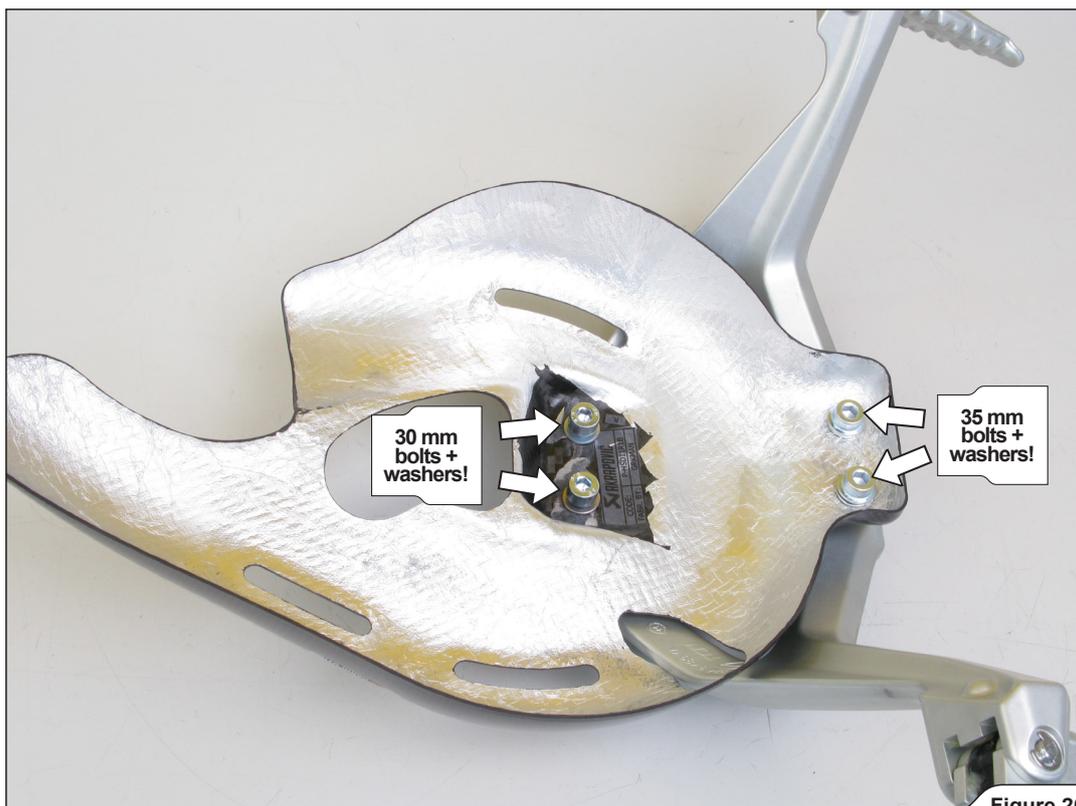


Figure 26

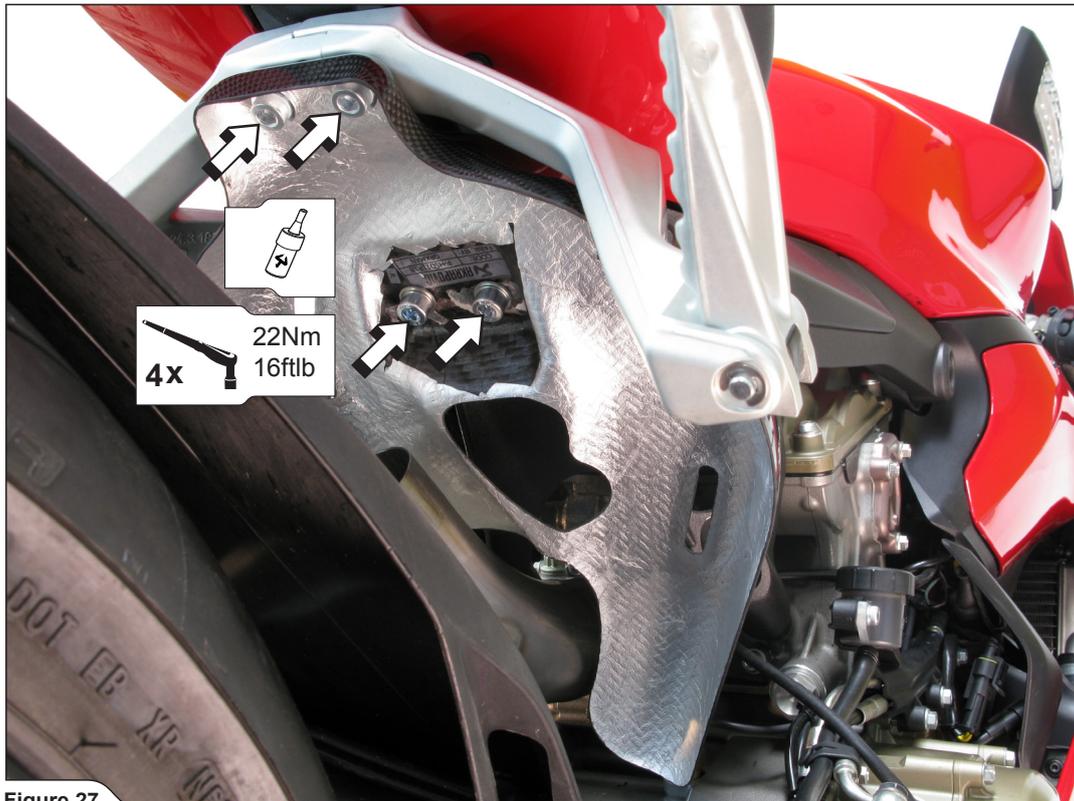


Figure 27

6. For use without passengers foot rests only: install the heat shield onto the sub-frame using spacers, bolts and washers from Akrapovič installation kit (Figure 28, 29, 30).

! IMPORTANT: use Akrapovič bolt sealant on the marked bolts' threads!

! IMPORTANT: make sure to correctly assemble the spacers (Figure 29)!

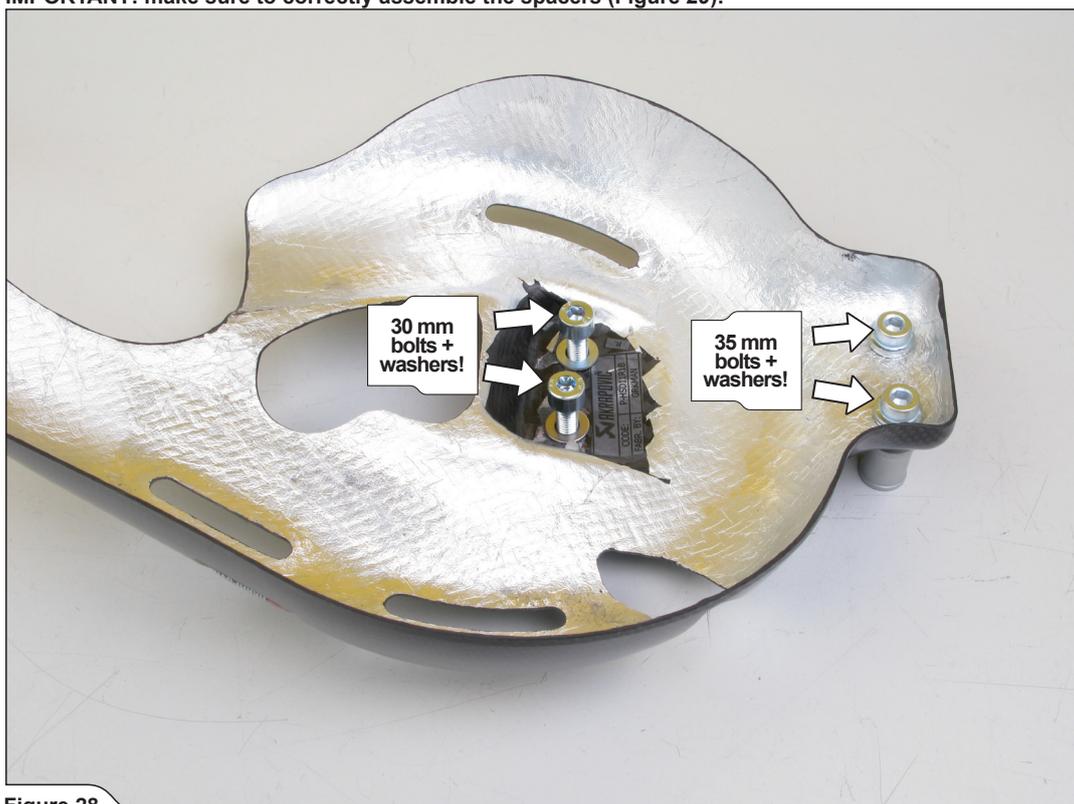


Figure 28

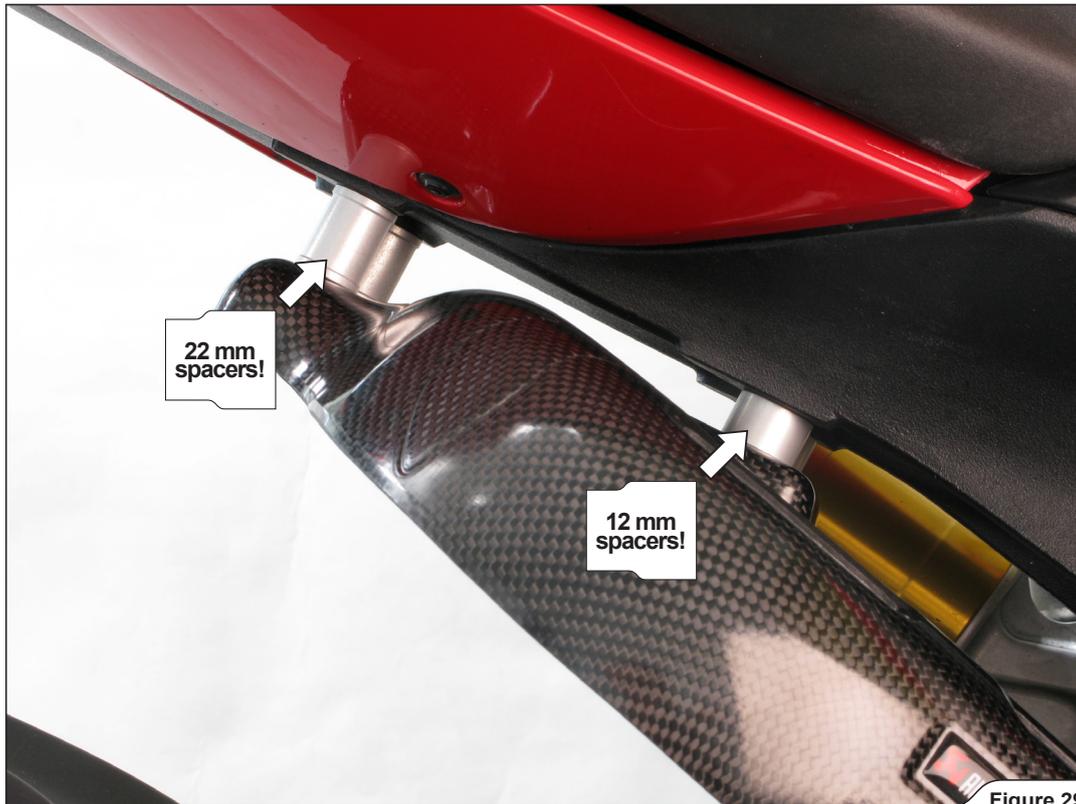


Figure 29

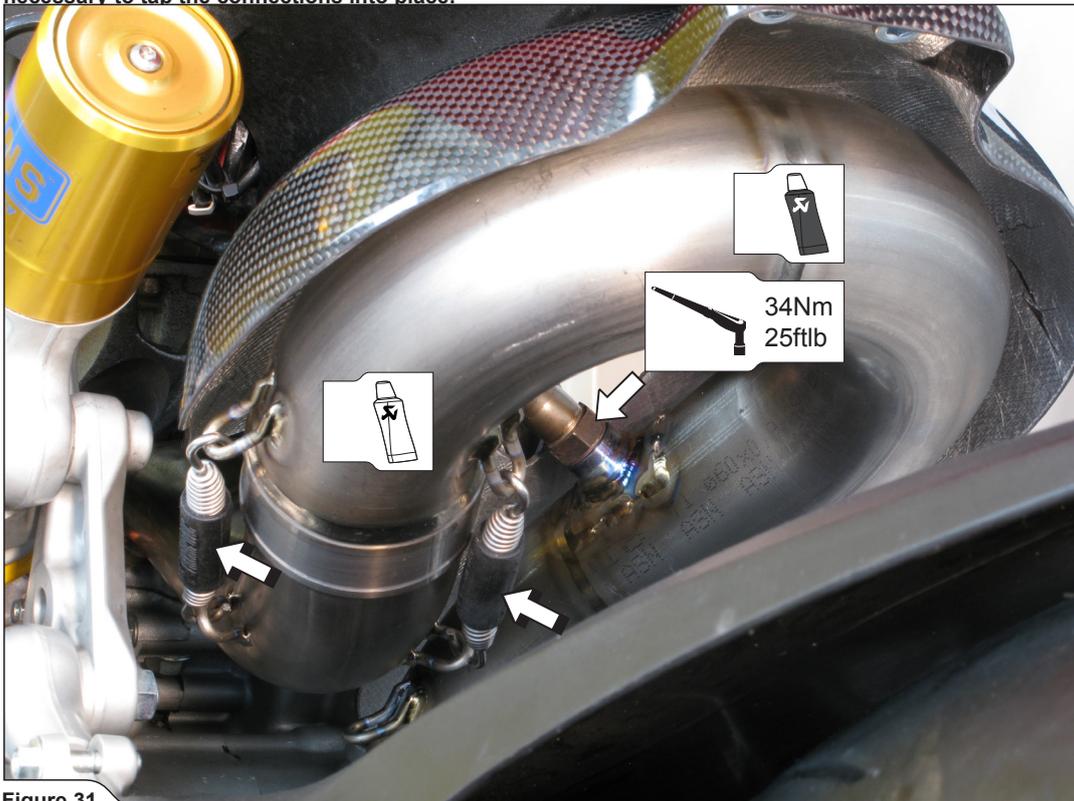


Figure 30

7. Slide the link pipes onto both headers, attach the springs and tighten the lambda sensors (Figure 31, 32).

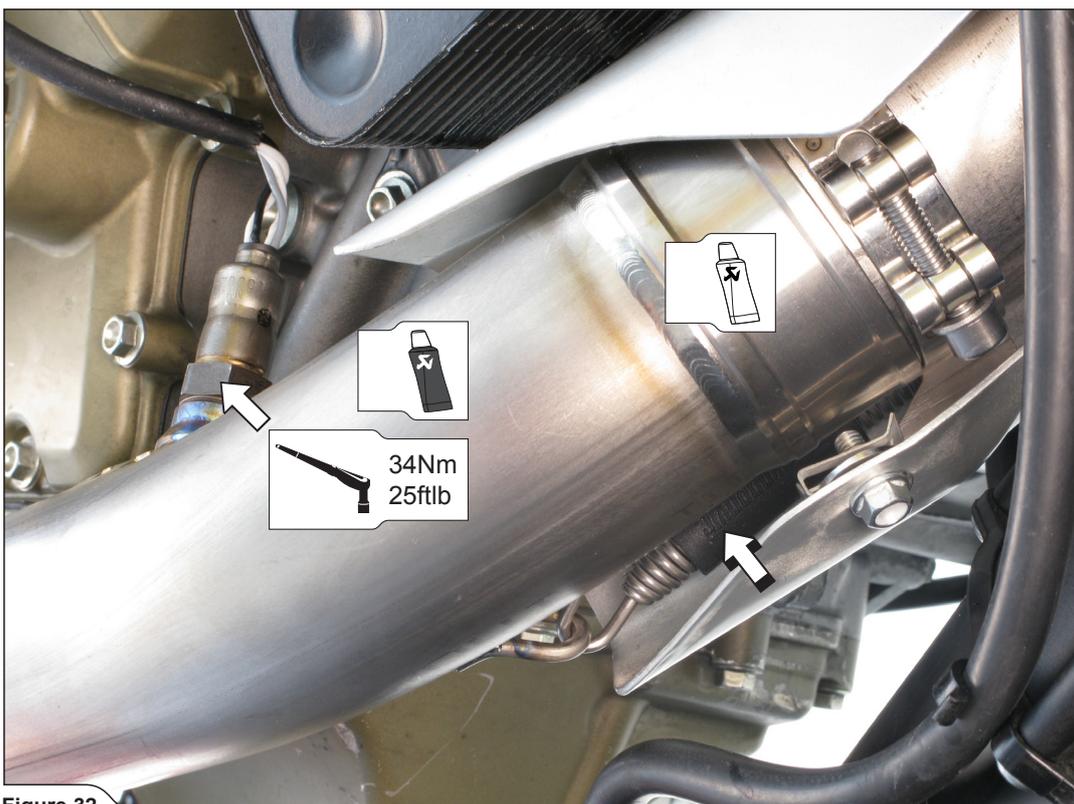
✂ **INSTALLATION TIP:** coat the interior side of the inlet bushes of the titanium link pipes with Akrapovič ceramic anti-seizing grease (white tube).

! **IMPORTANT:** make sure, that springs pull the link pipes all the way onto the headers – use rubber mallet if necessary to tap the connections into place!



! **IMPORTANT:** make sure not to damage the lambda sensors' electrical leads during this process!

! **IMPORTANT:** use anti-seize copper paste only on the lambda sensor threads!



8. Slide the collector onto both link pipes and attach the springs (Figure 33).

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

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

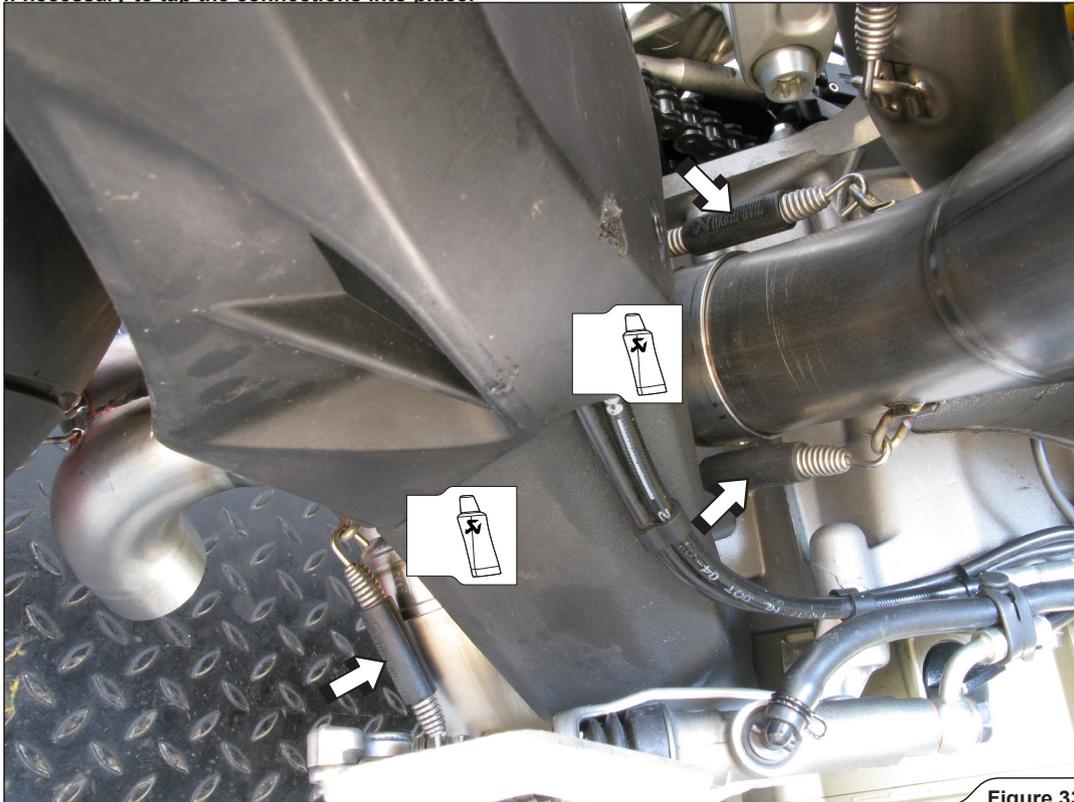


Figure 33

9. Correctly assemble the aluminium bushes and bolts onto the rubber muffler's brackets (Figure 34, 35).

! **IMPORTANT:** be careful not to damage the mufflers during this process!



Figure 34

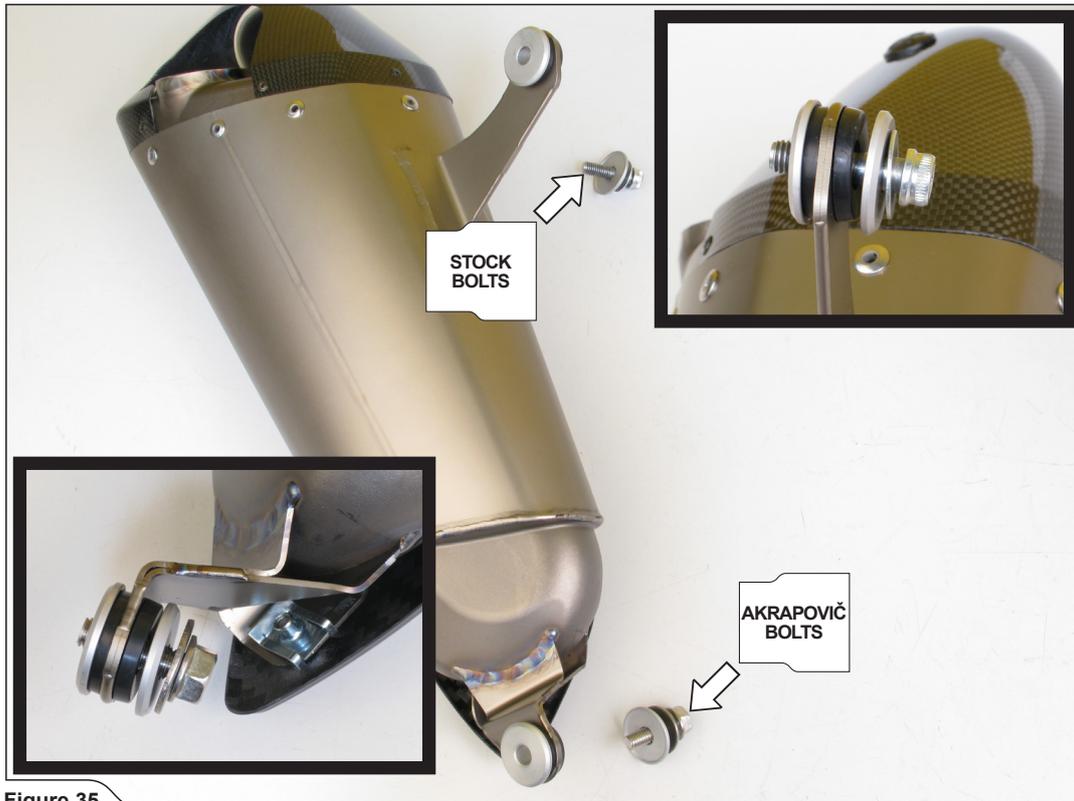


Figure 35

10. Hand tighten the front mufflers' bracket onto the oil sump, using stock bolts and Akrapovič washers (Figure 36).

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

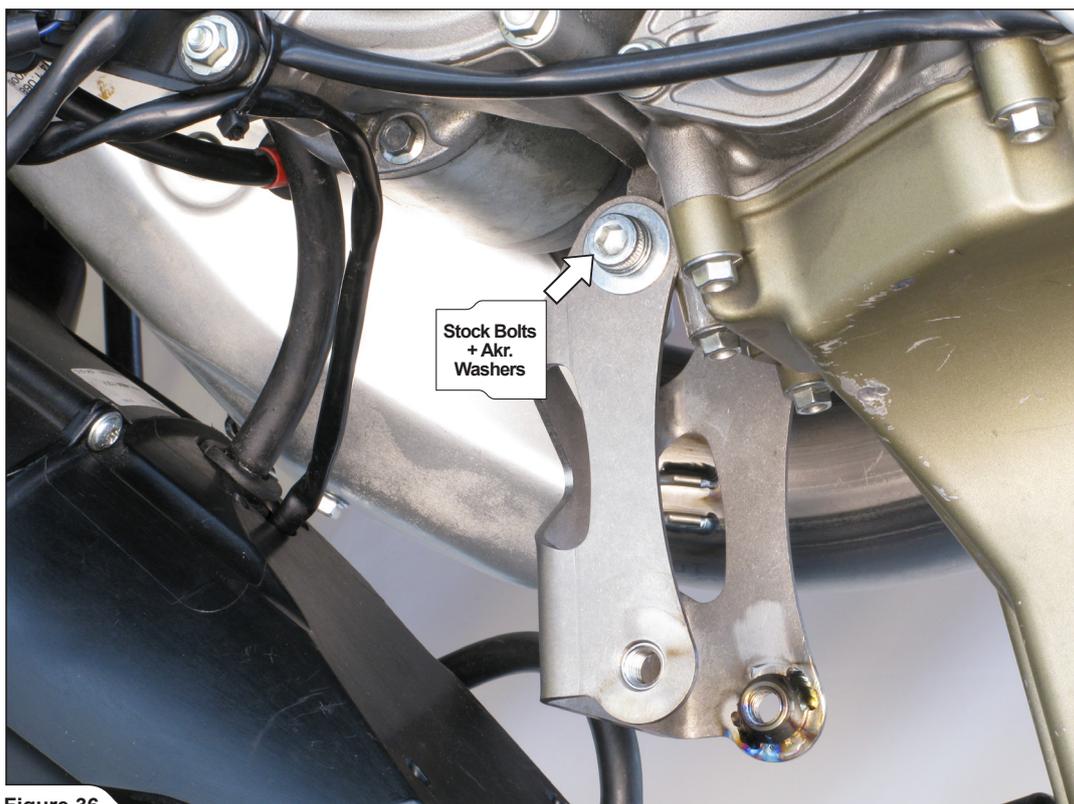


Figure 36

11. Unscrew the marked bolts and partially remove the right rider's foot rest (Figure 37).

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

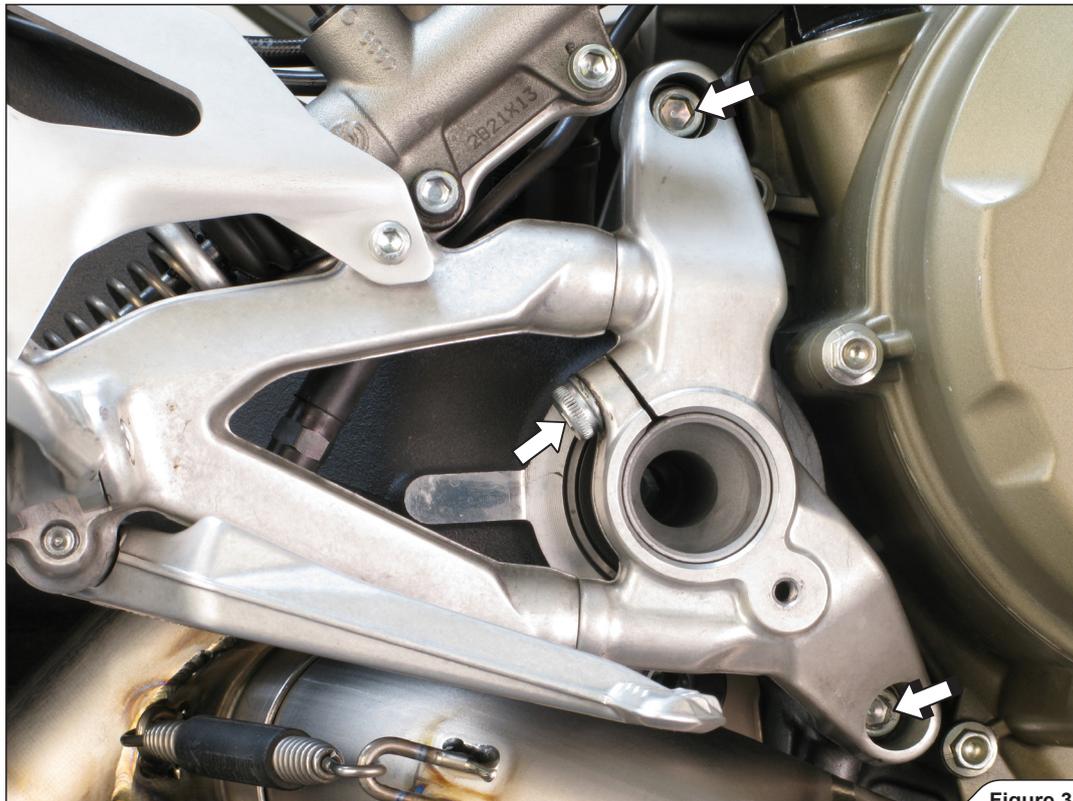


Figure 37

12. Slide the mufflers onto the outlets of the collector, hand tighten the mufflers' bracket bolts and attach the springs (Figure 38, 39).

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

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

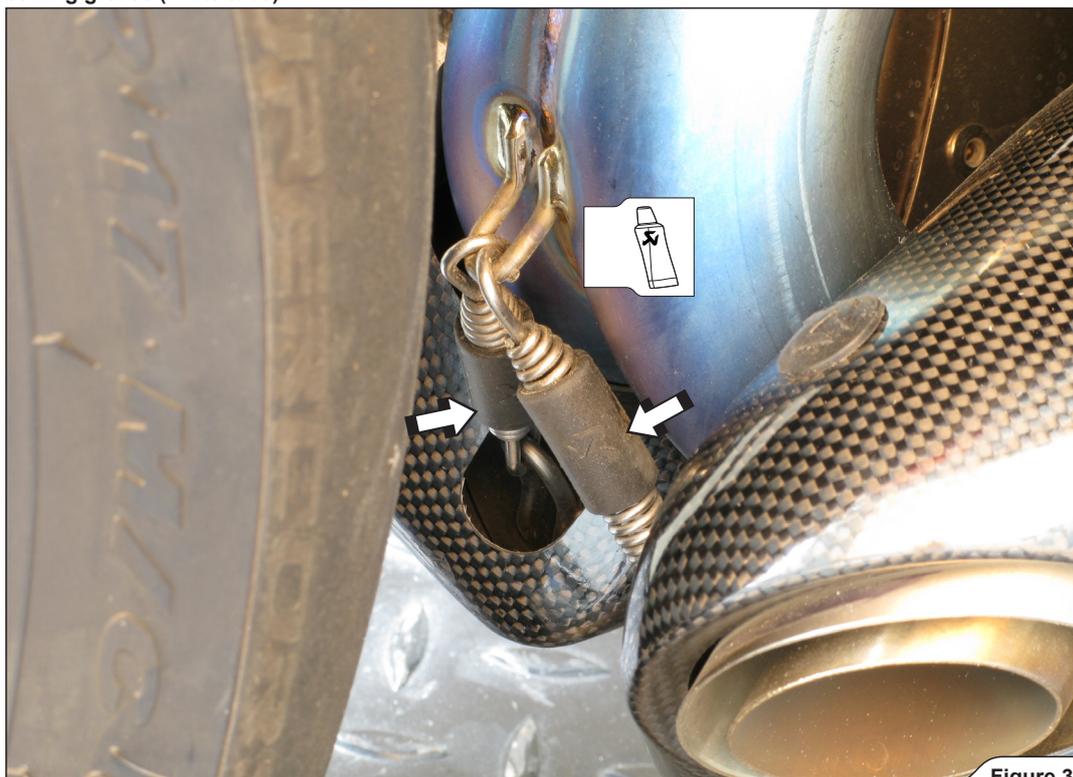


Figure 38

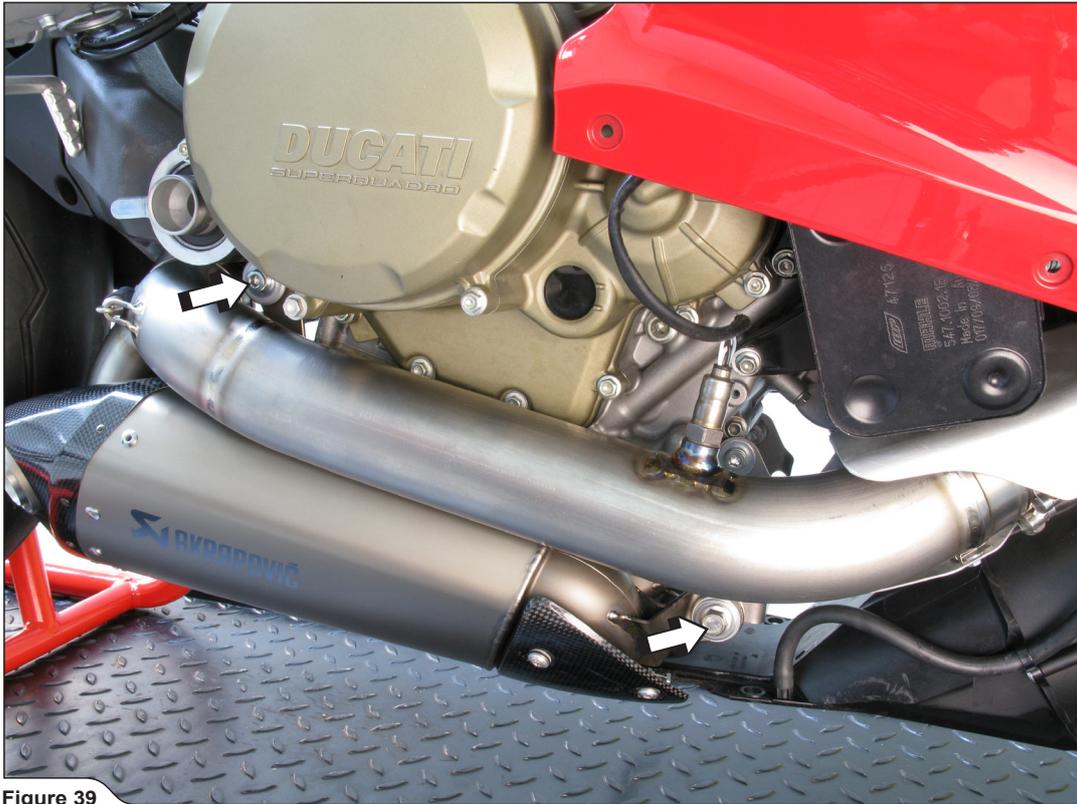


Figure 39

13. Align the mufflers and pipes in respect to the motorcycle and tighten the mufflers' bracket bolts to the specified torque (Figure 40, 41).

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

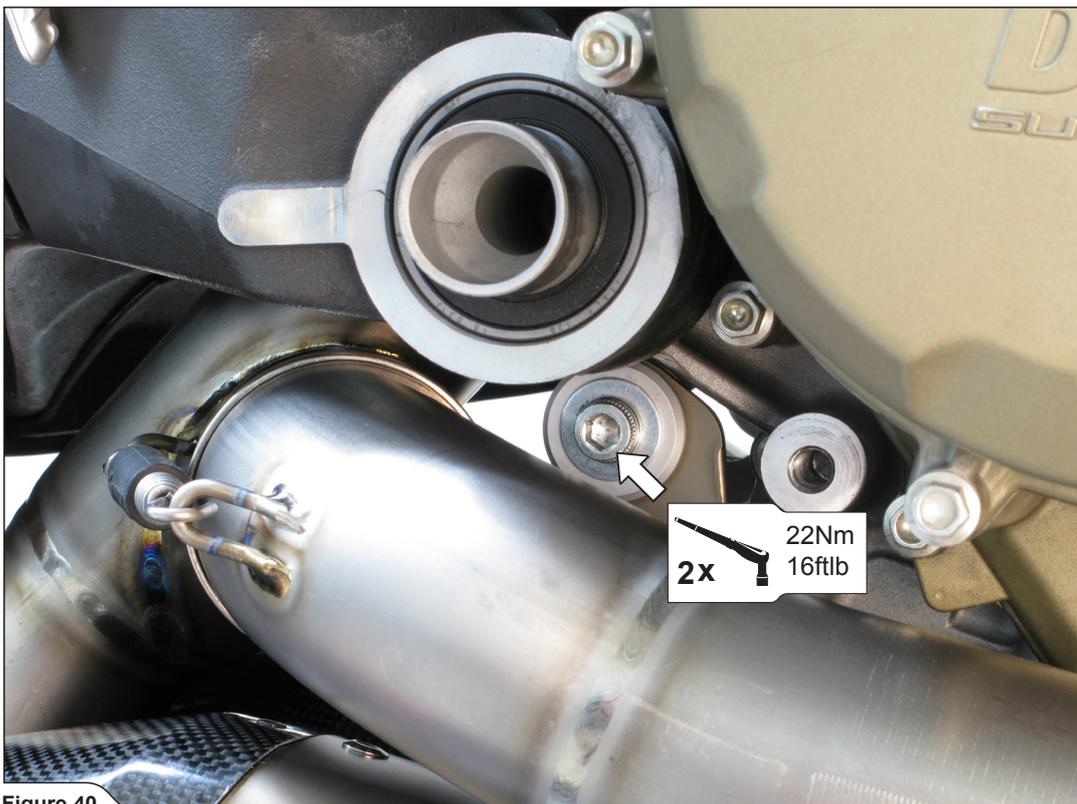


Figure 40

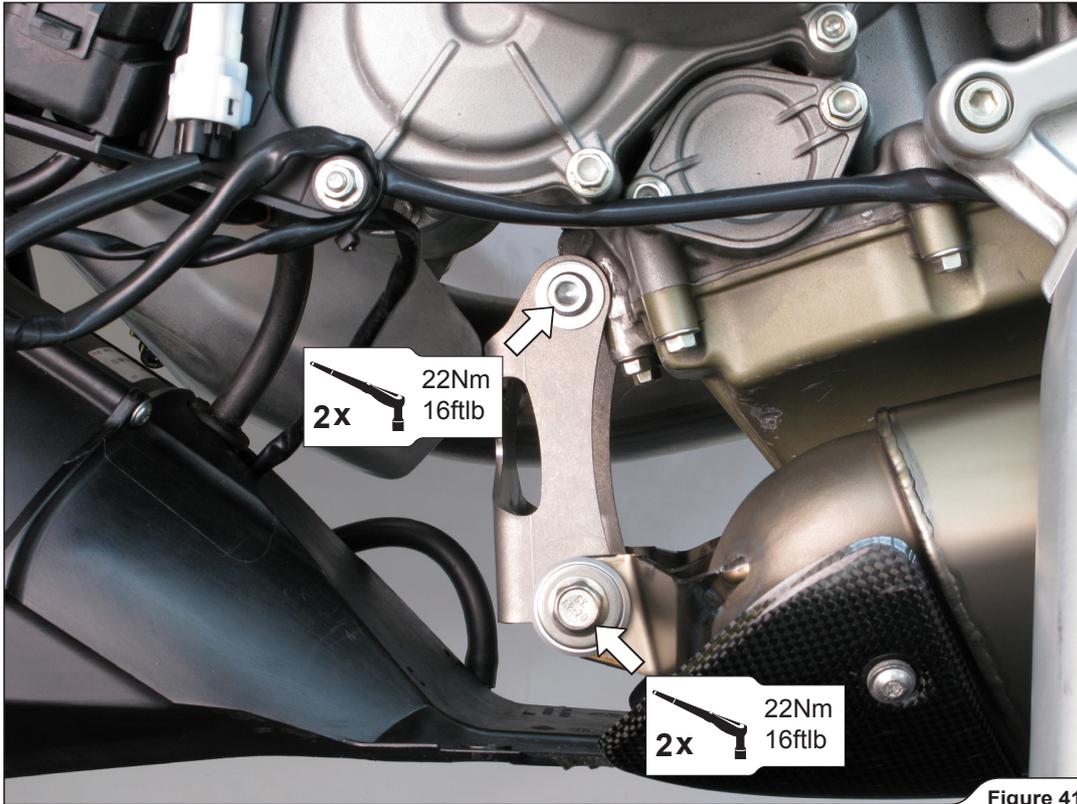


Figure 41

14. Tighten the front header to the specified torque (Figure 42).

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

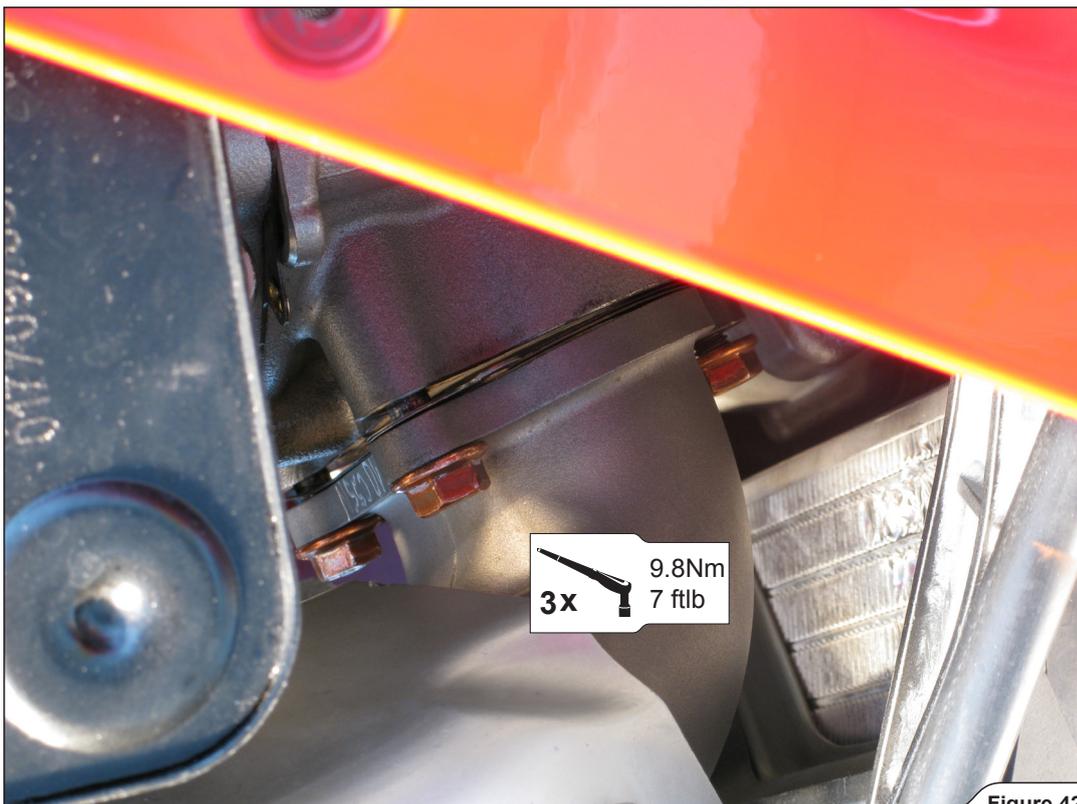


Figure 42

15. Reinstall the right rider's foot rest (Figure 43).

! **IMPORTANT:** use Akrapovič bolt sealant on the marked bolts' threads!

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

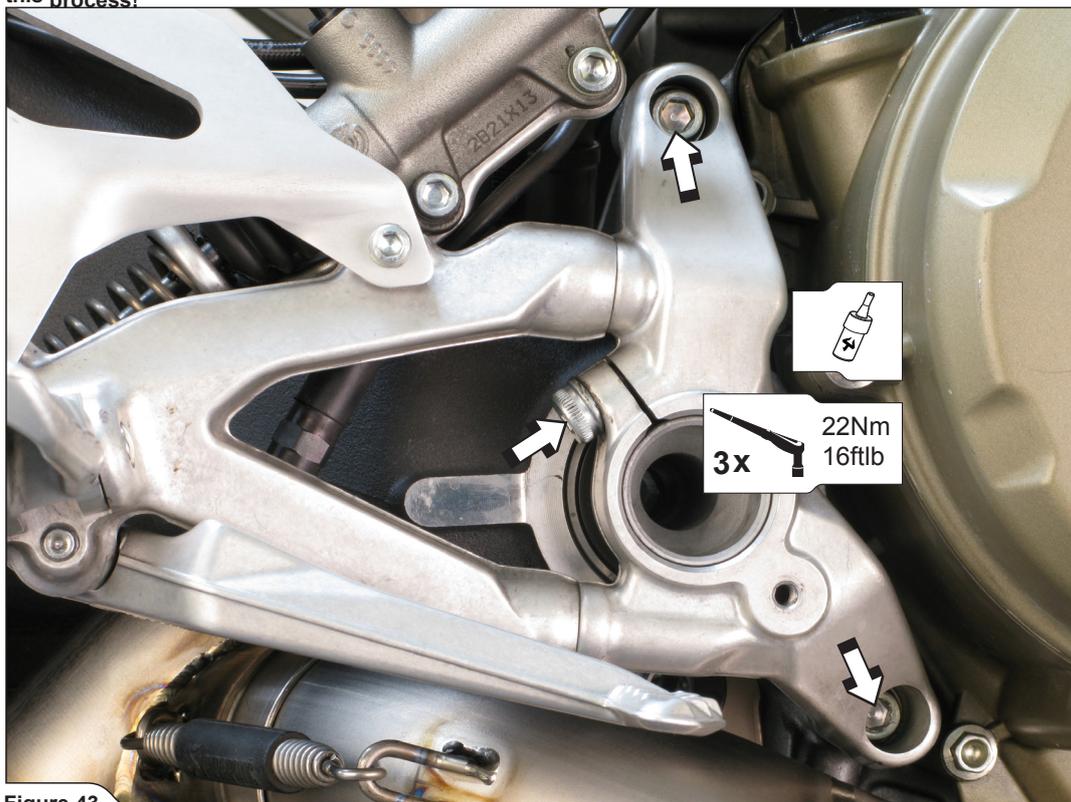


Figure 43

16. Replace all dismantled cowlings in the reverse order from the order in which they were removed. Check vehicle manufacturer manual for tightening torques. (Figure 44).

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



Figure 44

[EMPTY PAGE]

REPARATION OF THE AKRAPOVIČ MUFFLERS:

1. Drill all sleeve rivets on both mufflers, using 4.9 mm drill bit (Figure 45).

! CAUTION: make sure, that you don't injure yourself or damage the outer sleeve, end cap or any other part of the mufflers during this process! Use personal protection equipment!



Figure 45

2. Carefully tap evenly all around the edge of outlet caps and sleeves using rubber mallet, until the caps start to move out of the sleeve (Figure 46).

! IMPORTANT: tap onto the muffler sleeve very carefully! It can get damaged easily!

! IMPORTANT: be careful, not to tap on the outlet caps (carbon-fiber)!



Figure 46

3. Remove all used damping material out of the mufflers' interior and outlet caps, except of special damping material at the narrowest part of the mufflers (Figure 47, 48).

! **IMPORTANT:** do not remove the special damping material at the narrowest part of the mufflers (Figure 48)!

! **IMPORTANT:** use personal protection equipment during this process!



Figure 47

! **IMPORTANT:** use personal protection equipment during this process!

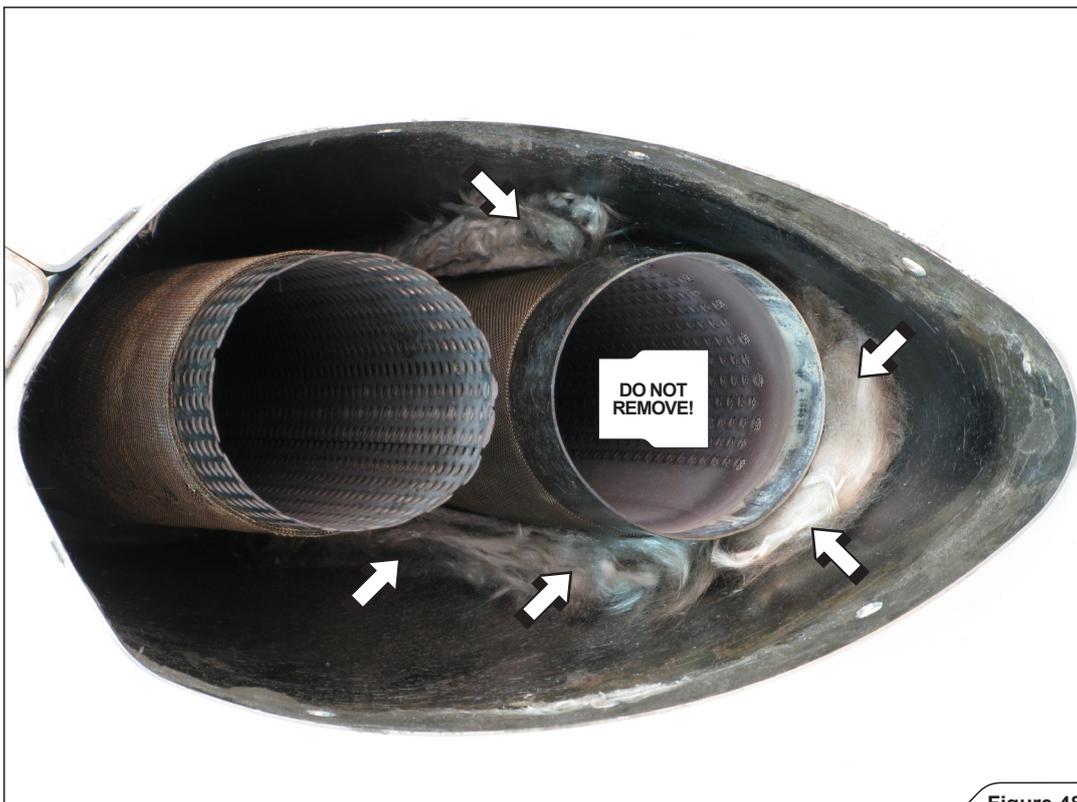


Figure 48

4. Tuck in the small chunks of new damping material one by one, using large screwdriver or equivalent (**Figure 49, 50**). Make sure, that damping material is equally divided through the mufflers and out let caps.

! IMPORTANT: use personal protection equipment during this process!

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



Figure 49

! IMPORTANT: you should use all of the damping material supplied in Akrapovič reparation kit!



Figure 50

5. Position the outlet caps precisely into the mufflers' outer sleeves and carefully tap them into the final position (**Figure 51**).

! **CAUTION:** make sure, that you don't injure yourself or damage the outer sleeve or outlet cap during this process! Use personal protection equipment!



Figure 51

6. Insert the rivets supplied in the Akrapovič reparation kit into the mufflers, as shown (**Figure 52**).

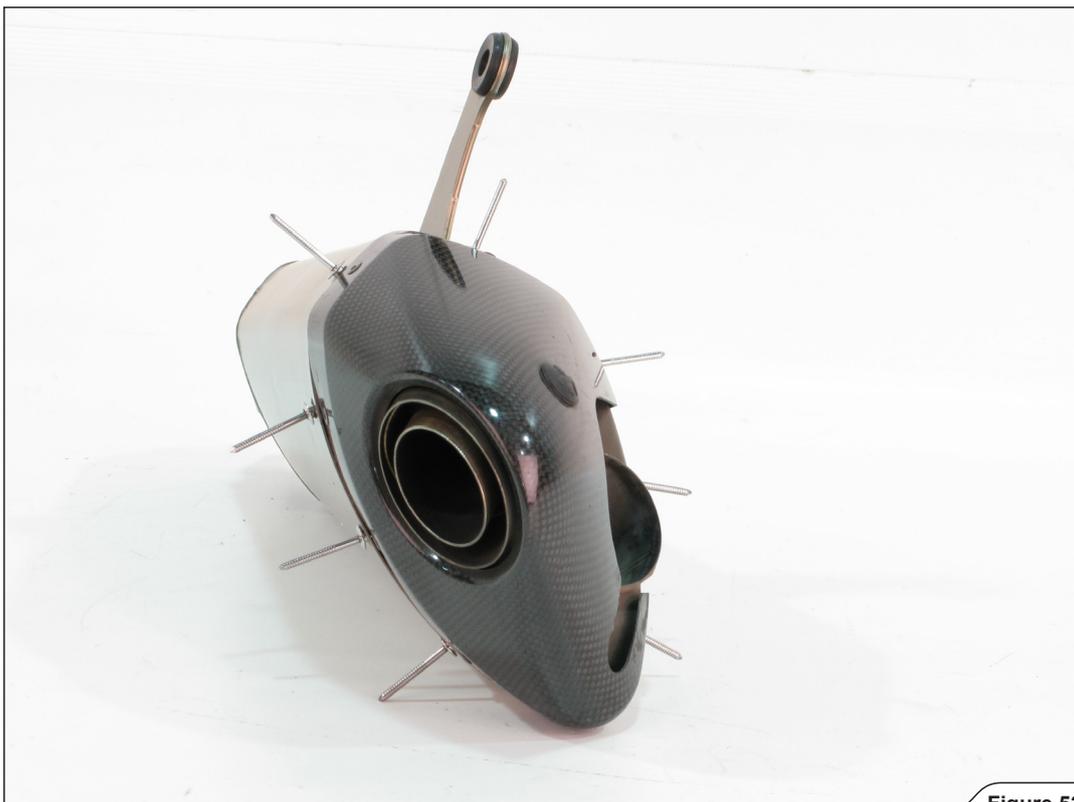


Figure 52

- Rivet the rivets one by one on both mufflers (Figure 53).

! CAUTION: make sure, that you don't injure yourself or damage any part of the mufflers during this process!
Use personal protection equipment!



Figure 53

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)*.

*WD-40® is a trademark of the WD-40 Company.

Periodically make sure all the bolts and springs are sufficiently tight.



IMPORTANT: 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!



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



INSTALLATION TIP: IT IS NORMAL IF WHITE SMOKE COMES OUT OF THE MUFFLER DURING THE FIRST 100 KM AFTER REPLACEMENT.



INSTALLATION TIP: 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 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

