



## Installation instructions

Akrapovič Exhaust Systems  
**Racing&Evolution**  
for the  
**BMW S1000RR 2010**



\*502408\*

**Congratulations on purchasing an Akrapovič exhaust system. Please read these installation instructions carefully. If you have any trouble installing the system please contact your authorized dealer!**

## **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.

### **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:



**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.**



Torx 25  
Torx 40  
Torx 45  
T-handle 12 mm wrench  
T-handle 13 mm wrench  
T-handle 3 mm three hexagon wrench  
T-handle 6 mm three hexagon wrench  
Combination 10 mm wrench  
Combination 13 mm wrench  
Combination 17 mm wrench  
Spring puller



**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.**

**REMOVAL OF STOCK EXHAUST SYSTEM:**

1. Put the motorcycle on a side stand, we recommend a racing stand.
2. Unscrew the marked bolts from the muffler hanging bracket and the metal clamp at the muffler-collector connection (**Figure 1**). Remove the muffler together with heatshield.



Figure 1

3. Remove the metal collar and rubber damper from the stock muffler hanging bracket (**Figure 2**).

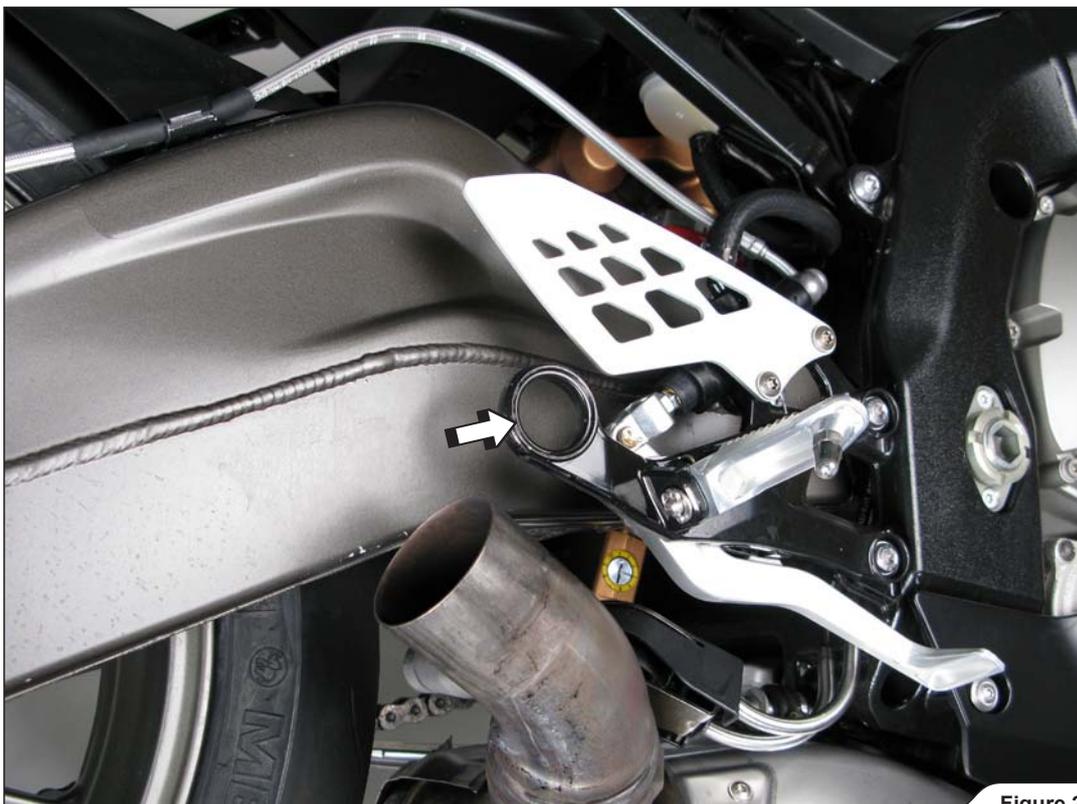


Figure 2

4. Unscrew both rider's seat screws and remove the seat (**Figure 3**).



Figure 3

5. Unscrew marked bolts and remove the fuel tank side covers on both sides of the motorcycle (**Figure 4**).



Figure 4

6. Remove the stock exhaust valve cables from servo motor (Figure 5).

! **WARNING:** do not turn the the servo motor wheel with force or the servo motor could be damaged!

! **WARNING:** do not disconnect the servo's electrical connector or remove the servo motor off the vehicle!



Figure 5

7. Free the cables from the motorcycle (Figure 6).

! **WARNING:** make sure not to scratch or damage any part of the motorcycle during removal of the cables!



Figure 6

8. Unscrew the marked bolts on both sides of the motorcycle and remove the lower and middle parts of the cowling (Figure 7, 8, 9).



Figure 7



Figure 8

! **WARNING:** disconnect the turn signal electrical connectors during removal of the middle cowling (Figure 9)!



Figure 9

9. Pull the radiator's bracket off the radiators (Figure 10).

! **WARNING:** make sure not to damage the radiator's cooling fins!

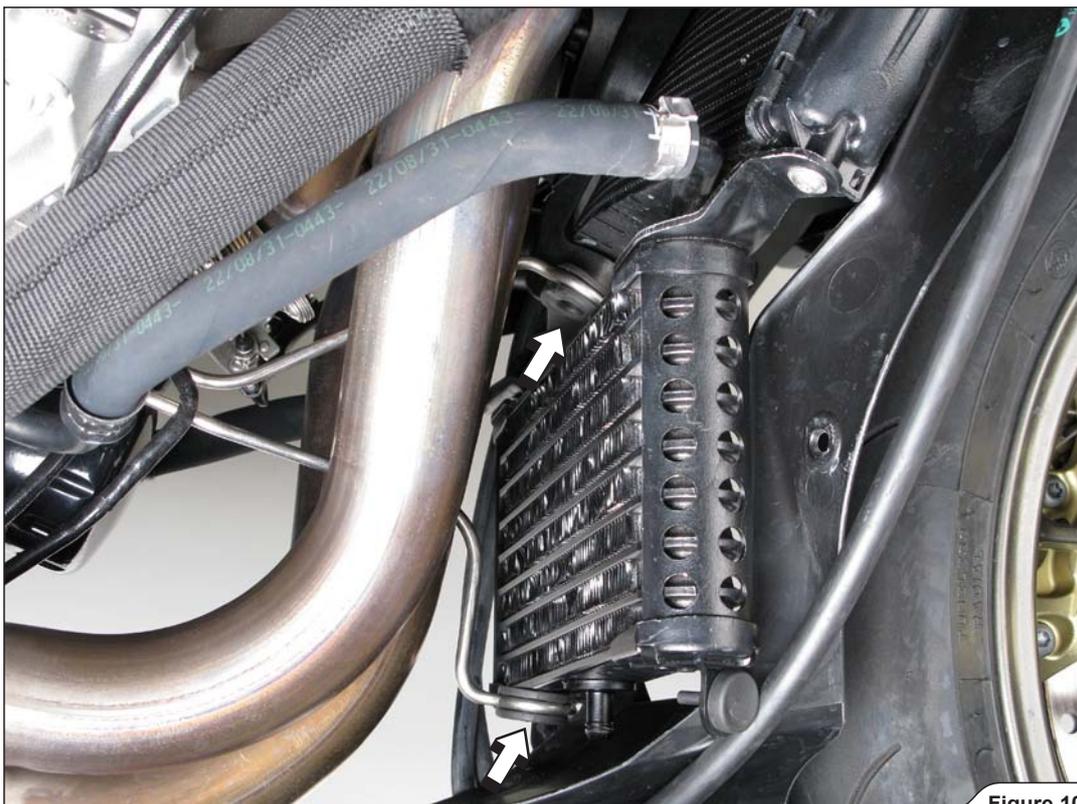


Figure 10

10. Unscrew the radiator's bracket off the engine block and both lambda sensors (Figure 11).

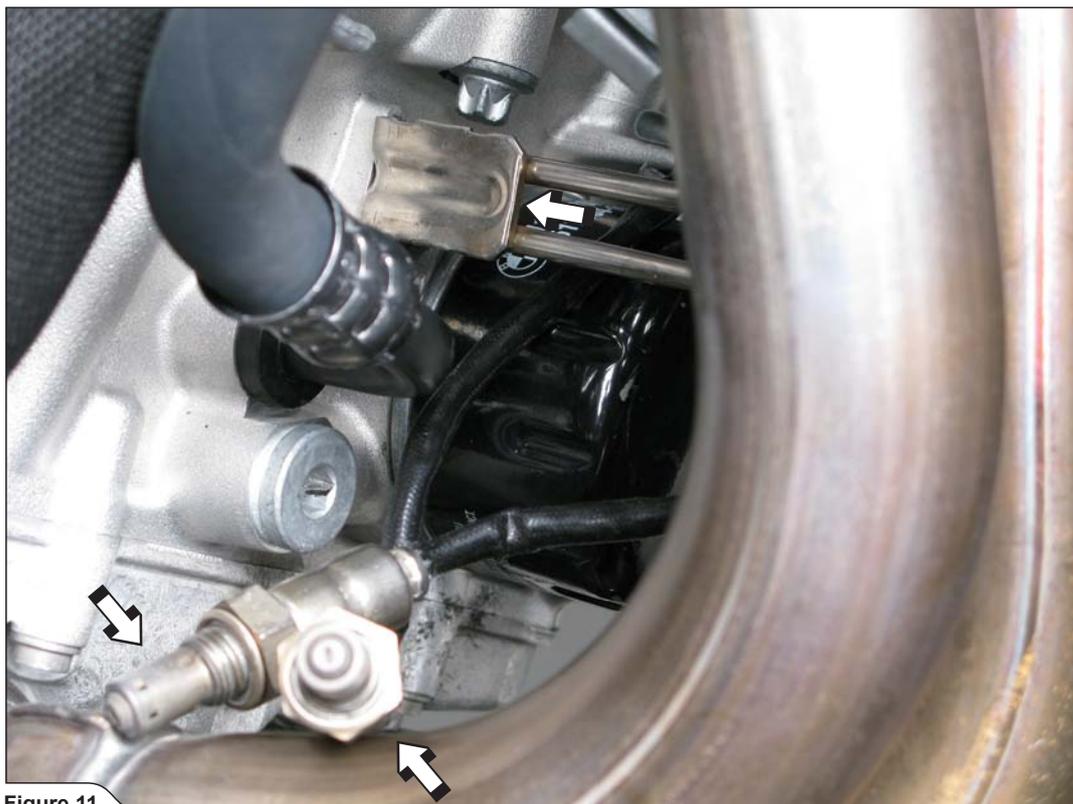


Figure 11

11. Remove the header tubes valve cable from servo motor (Figure 12).

- ! **WARNING:** do not turn the the servo motor wheel with force or the servo motor could be damaged!
- ! **WARNING:** do not disconnect the servo's electrical connector or remove the servo motor off the vehicle!

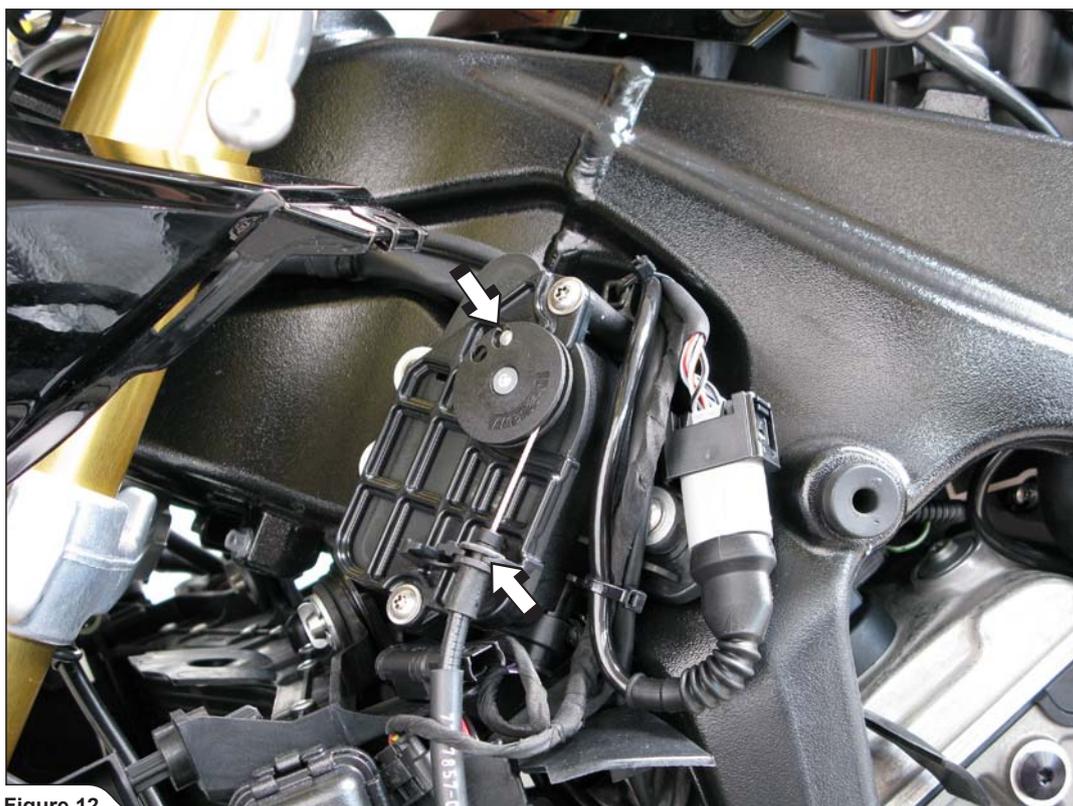


Figure 12

12. Unscrew all nuts from the front header tube flanges (Figure 13).

! **WARNING:** make sure not to damage the radiator's cooling fins!



Figure 13

13. Unscrew the market bolt on both sides of the motorcycle and remove the stock exhaust off the motorcycle (Figure 14, 15).

! **WARNING:** support the stock exhaust during this procedure or it may fall of and damage you or the motorcycle!



Figure 14

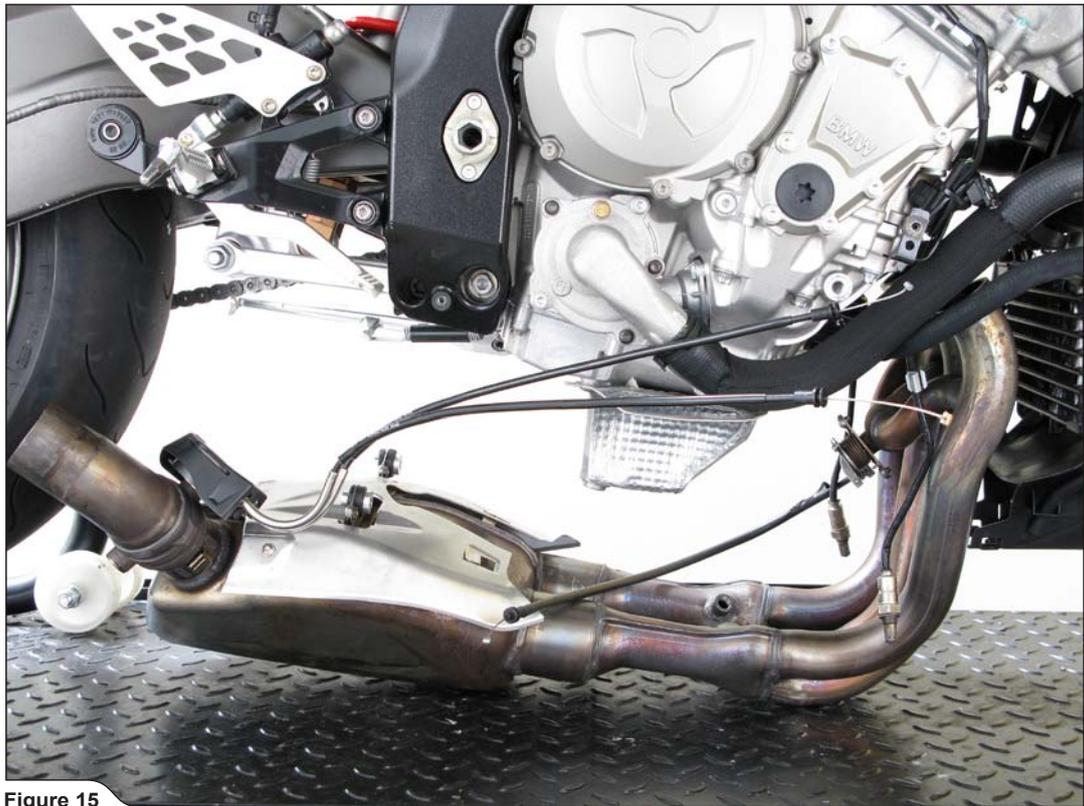


Figure 15

**INSTALLATION OF THE AKRAPOVIČ RACING OR EVOLUTION EXHAUST SYSTEMS:**

1. Set up and hand tighten the sleeves together with the flanges and springs onto the cylinder head; make sure they are correctly oriented (Figure 16, 17).

**! WARNING: do not fully tighten the flanges yet!**



Figure 16

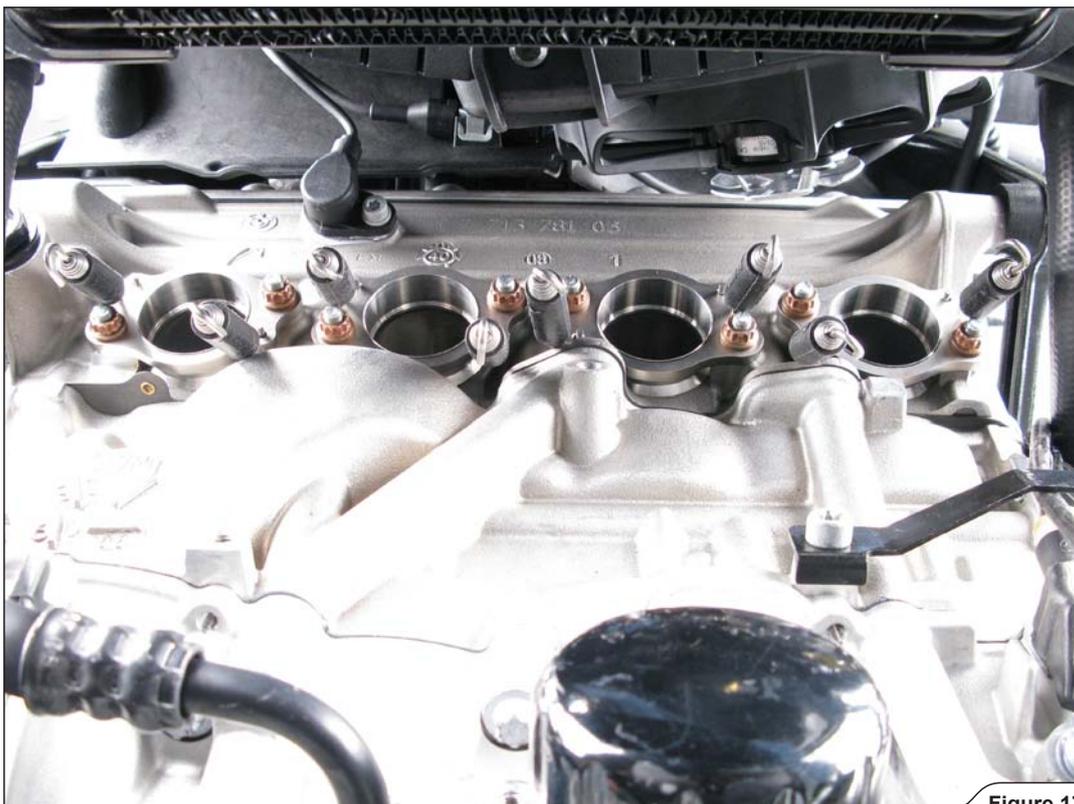


Figure 17

2. Insert the middle header tubes all the way into the sleeves together, attach the springs and tighten the middle flanges to a specified torque (**Figure 18**).

! **WARNING:** use anti-seize copper paste on all nut threads!

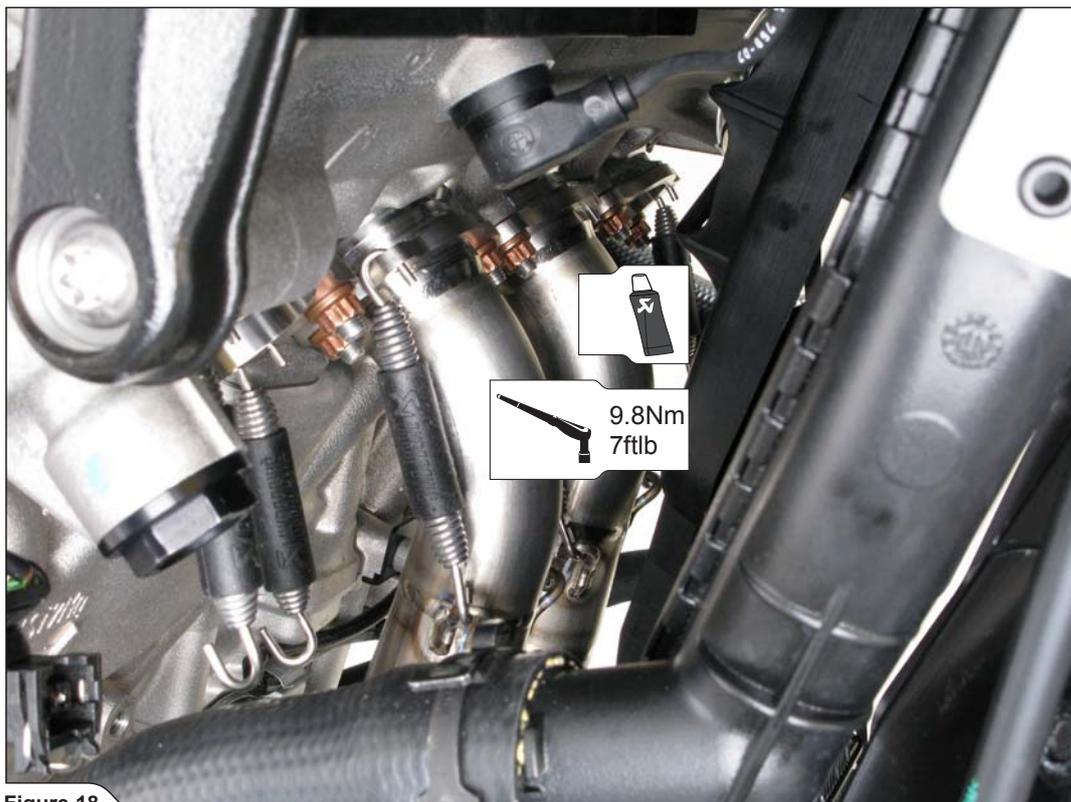


Figure 18

3. Tighten the lambda sensors into the middle header tubes and radiator bracket onto the cylinder block. Attach the sensor's electrical leads into the stock electrical lead brackets, as shown (**Figure 19**).

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

! **WARNING:** make sure not to damage the sensors' electrical leads during this procedure!

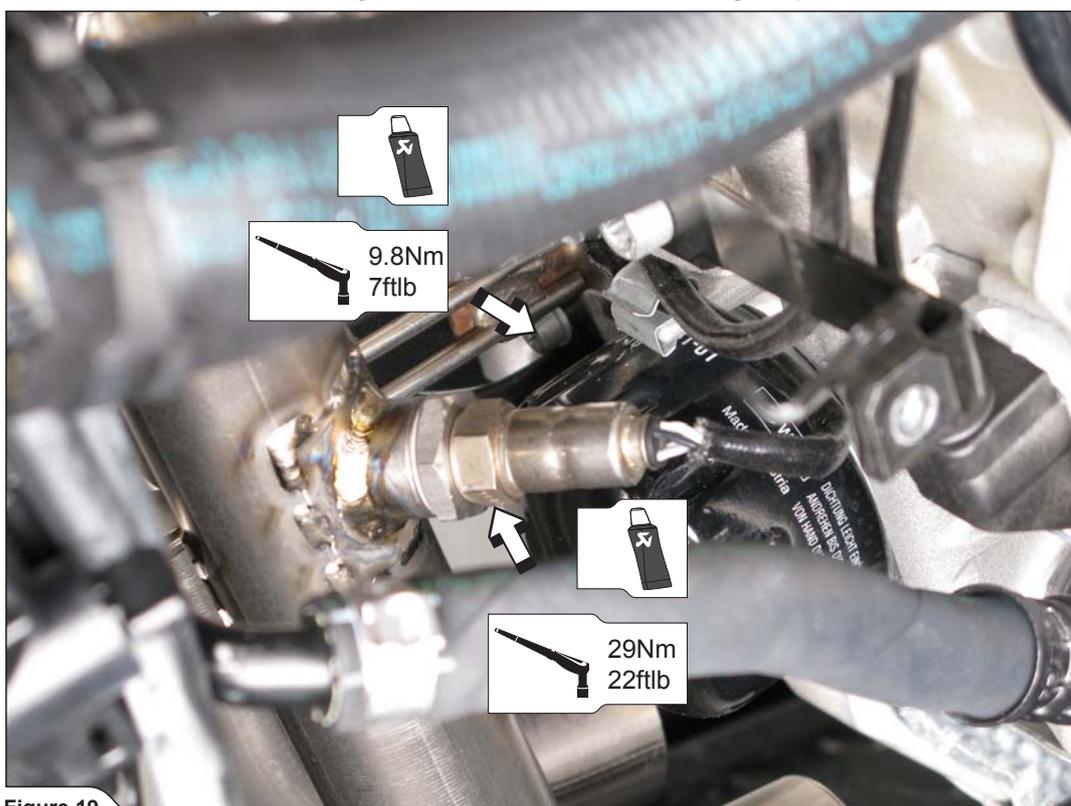


Figure 19

4. Attach the radiator bracket onto the radiators (Figure 20).

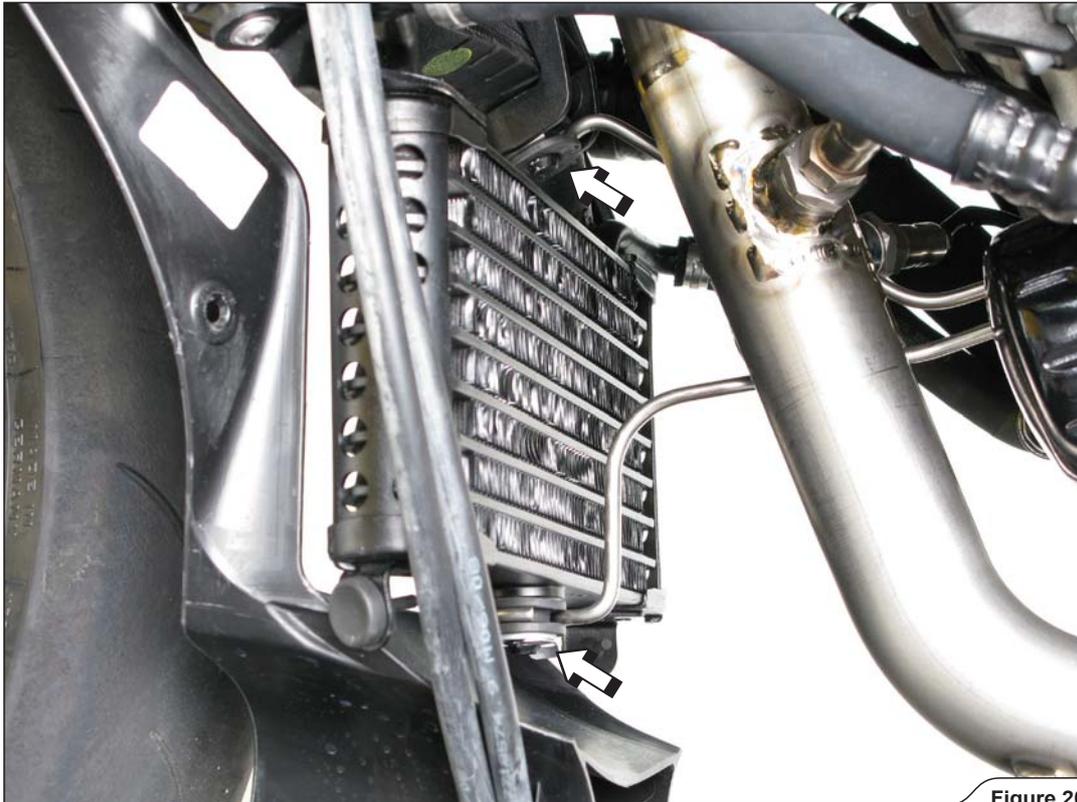


Figure 20

5. Insert the outer header tubes all the way into the sleeves, attach the springs and tighten the outer flanges to a specified torque (Figure 21).

! **WARNING:** use anti-seize copper paste on all nut threads!

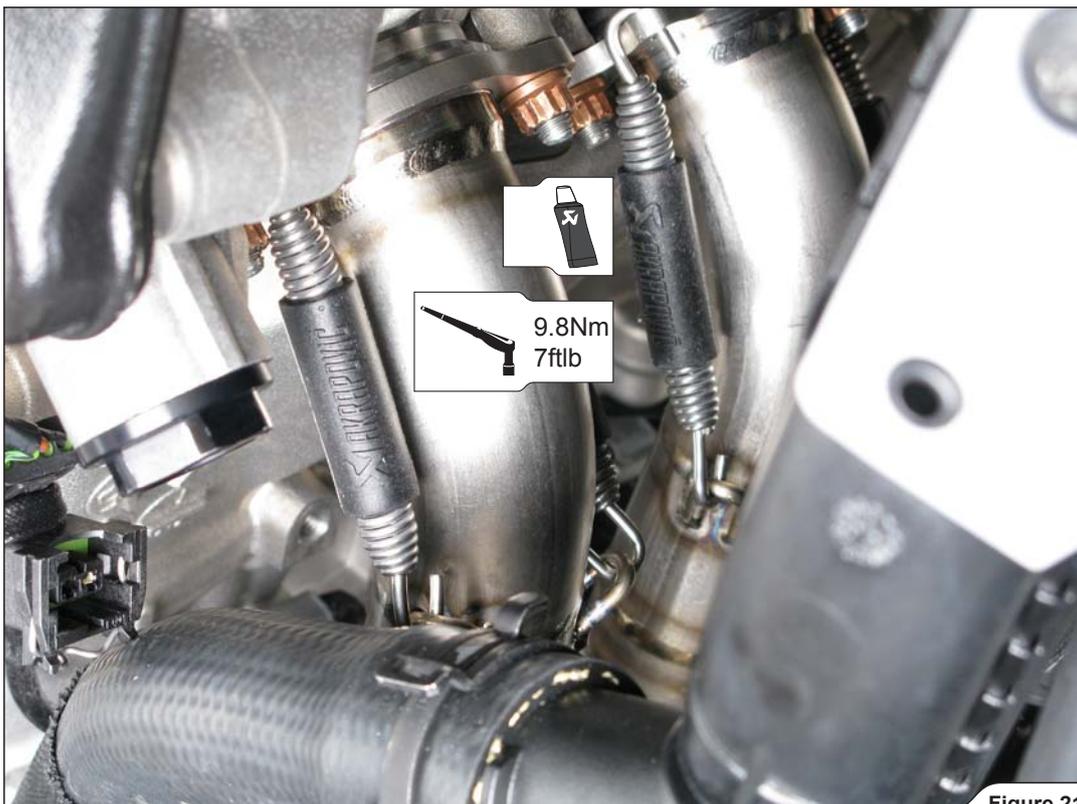


Figure 21

6. Assemble the collectors with link pipe as shown and attach the springs (Figure 22).  
! **WARNING:** make sure, that springs pull the link pipe all the way onto the collectors – use rubber mallet if necessary to tap the connections into place!  
✂ **INSTALLATION TIP:** for Evolution exhaust sistem, coat the interior side of the input bushes of the titanium collector with Akrapovič ceramic anti-seizing grease(white tube).



Figure 22

7. Slide the assembled link pipe and collectors onto the header tubes and attach the springs (Figure 23).  
! **WARNING:** make sure, that springs pull the collectors all the way onto the headers – use rubber mallet if necessary to tap the connections into place!  
✂ **INSTALLATION TIP:** for Evolution exhaust sistem, coat the interior side of the input bushes of the titanium collector with Akrapovič ceramic anti-seizing grease(white tube).

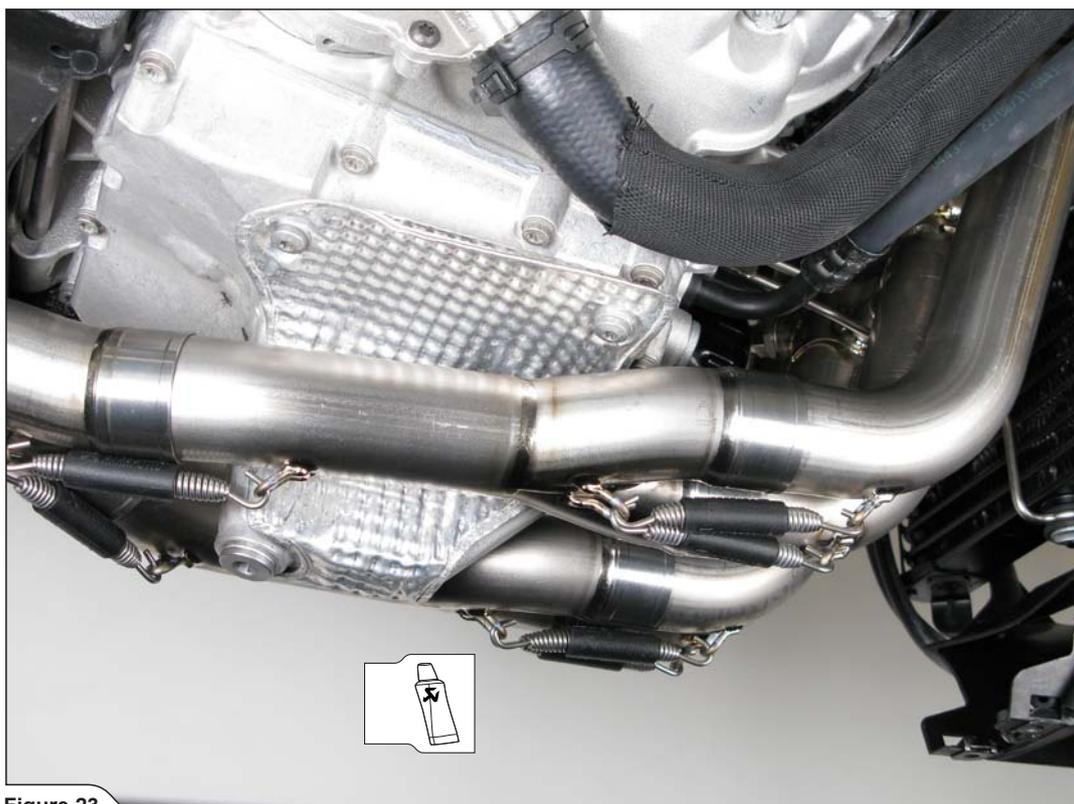


Figure 23

8. **For street legal Racing and Evolution only:** remove the stock exhaust cables off the stock exhaust valve and install them back onto the exhaust valve servo motor (**Figure 24**).

! **WARNING:** make sure, that you don't swap the two cables!

! **WARNING:** do not turn the the servo motor wheel with force or the servo motor could be damaged!



Figure 24

9. **For street legal Racing and Evolution only:** direct the exhaust valve cables to the Akrapovič exhaust valve (**Figure 25**).

! **WARNING:** make sure, that you don't swap the two cables!



Figure 25

10. **For street legal Racing and Evolution only:** set the cable adjusters on the middle of the cable bracket, as shown. Tighten the cable adjusters nuts to a specified torque (**Figure 26**).

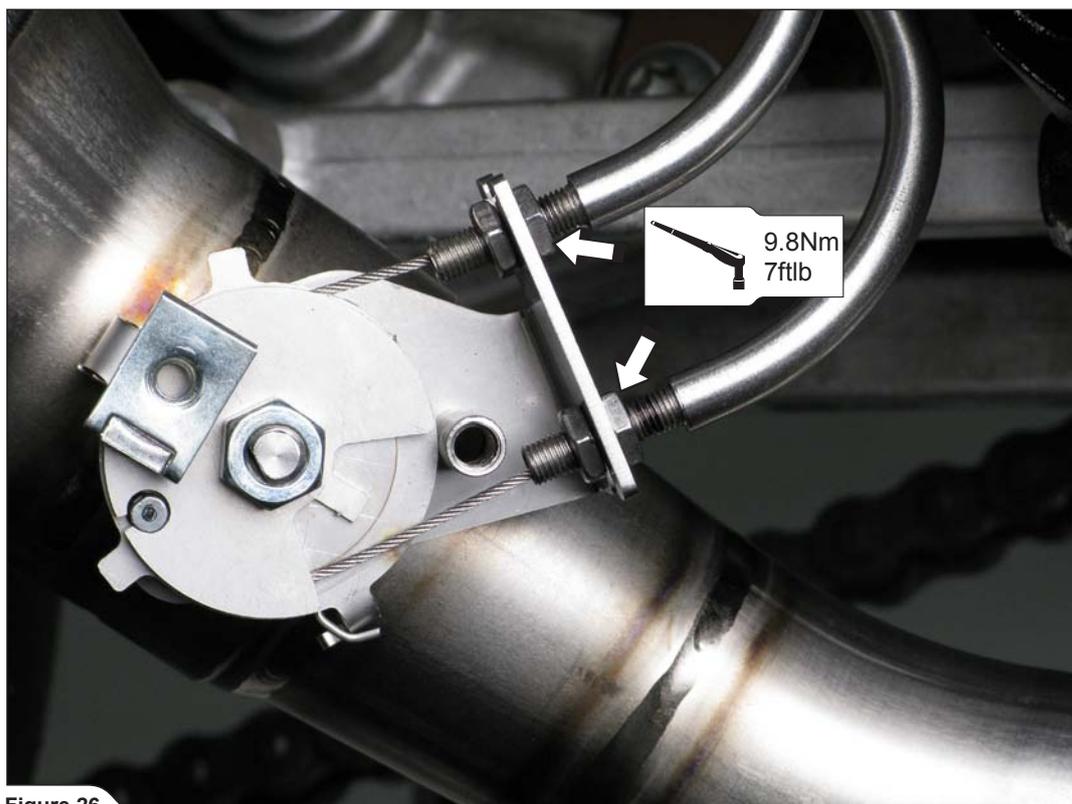


Figure 26

11. **For street legal Racing and Evolution only:** tighten the carbon-fiber heatshield onto the exhaust valve bracket, using Akrapovič bolts and heat resistant washers (**Figure 27**).

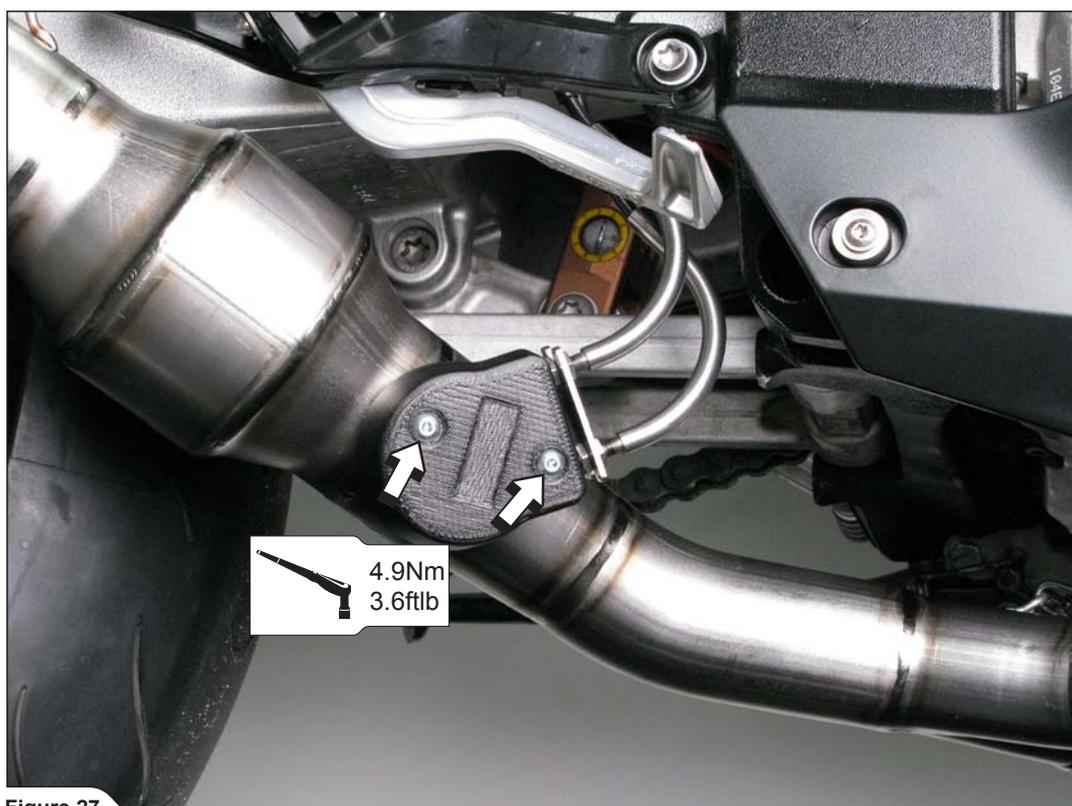


Figure 27

12. Attach the additional Akrapovič stainless steel bracket to the stock right passenger footrest bracket, using Akrapovič nut, bolt and washer (Figure 28, 29).



Figure 28

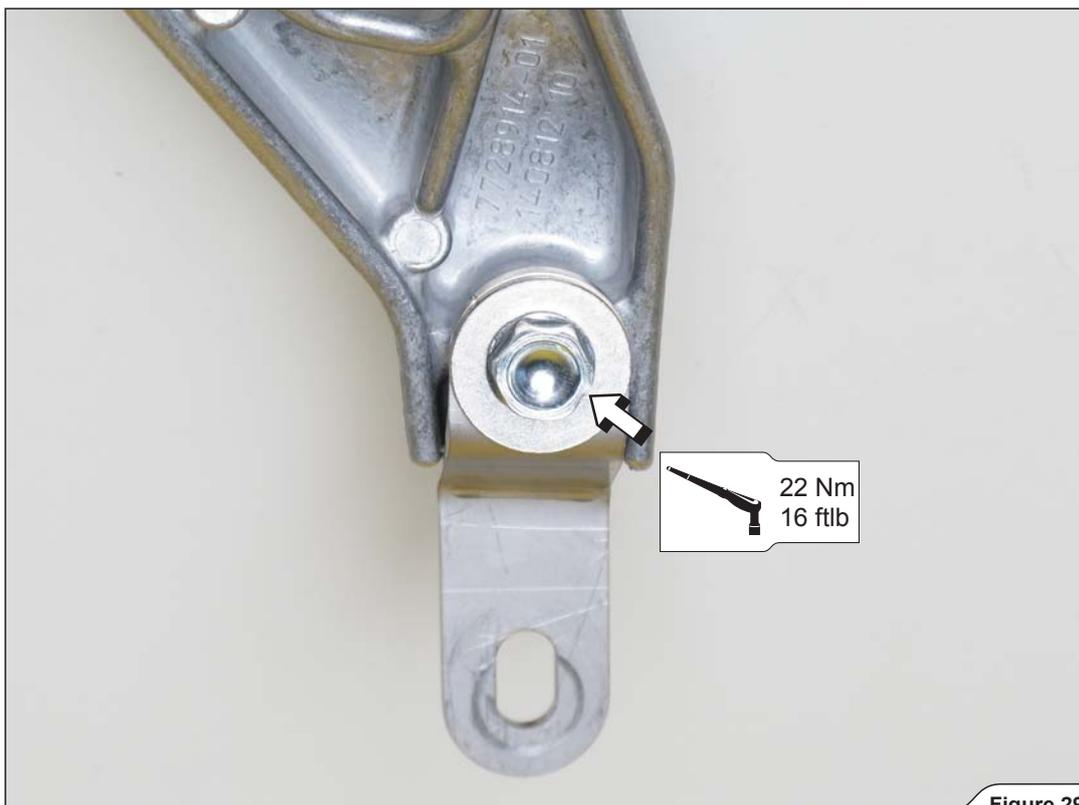


Figure 29

13. For optional carbon-fiber muffler bracket only: attach the optional Akrapovič carbon-fiber bracket as shown, using stock bolts (Figure 30).

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

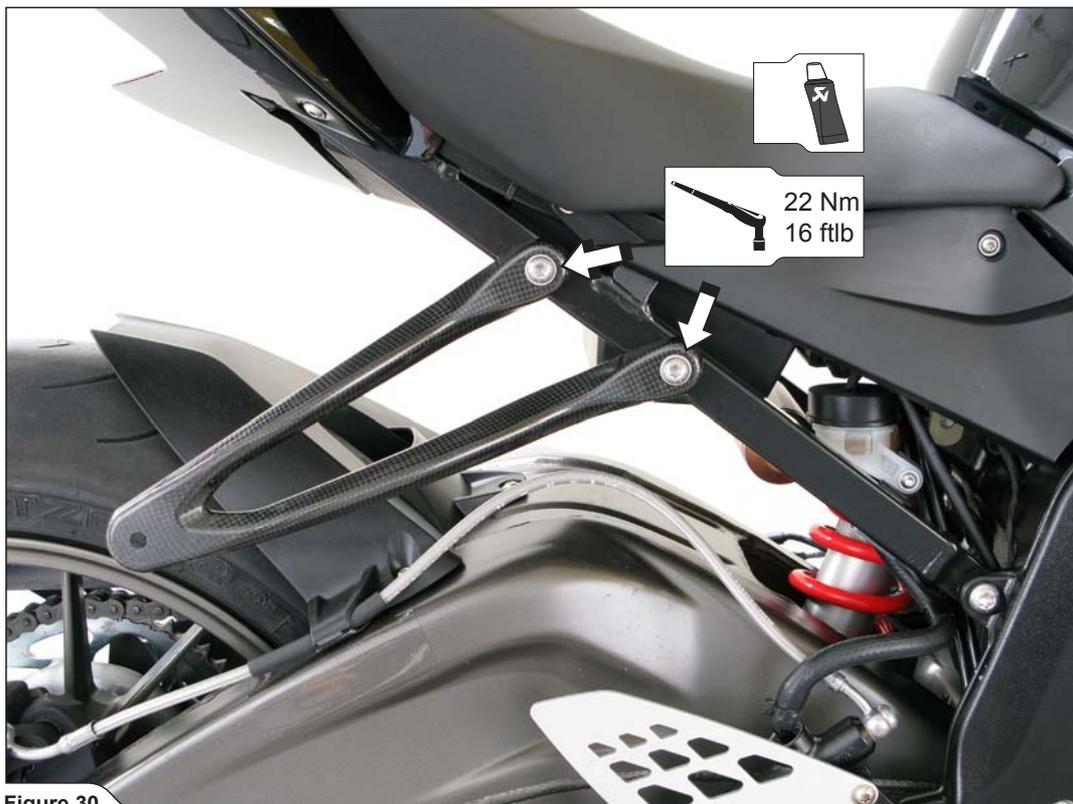


Figure 30

14. Correctly position the carbon-fiber clamp and slide it onto the muffler - bear in mind the **left offset** of the carbon fiber clamp viewed from the rear (Figure 31).

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

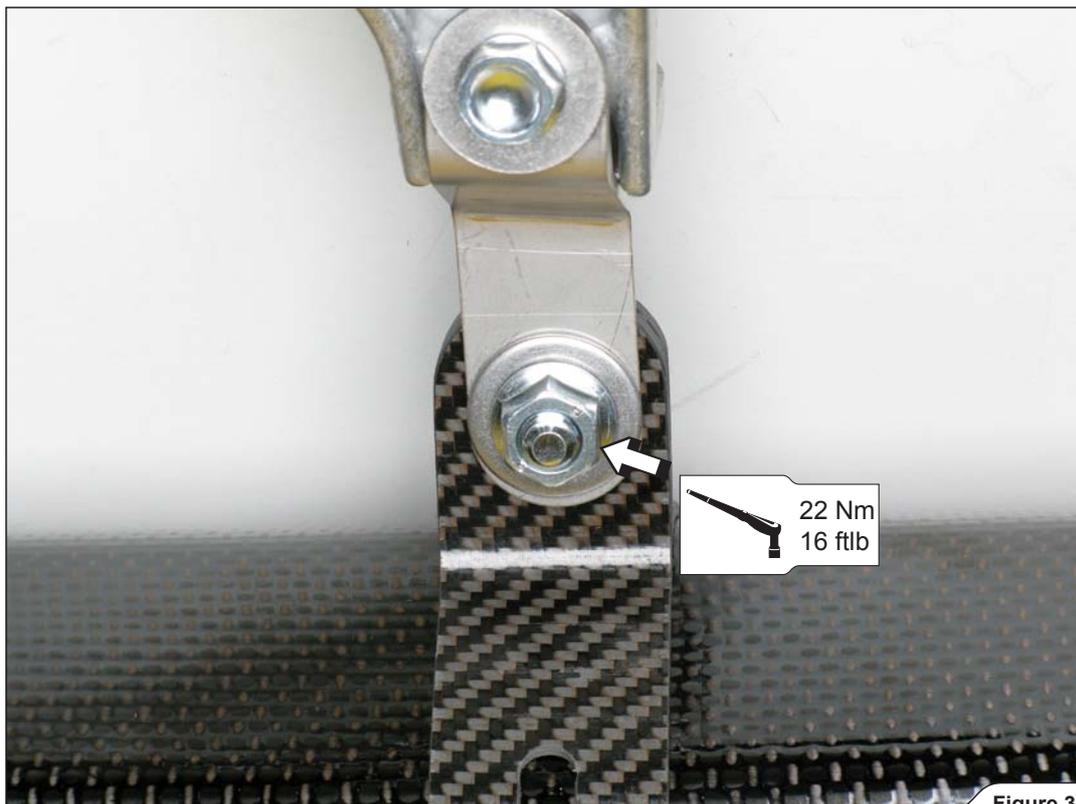


Figure 31

15. Position the muffler correctly and slide it onto the outlet side of the link pipe. Attach the springs (Figure 32).  
**!** **WARNING:** make sure, that springs pull the muffler all the way onto the link pipe – use rubber mallet if necessary to tap the connection into place!  
**✂** **INSTALLATION TIP:** for Evolution exhaust system, coat the interior side of the input bushe of the muffler with Akrapovič ceramic anti-seizing grease (white tube).



16. Align the muffler in respect to the motorcycle and tighten the muffler clamp to the bracket, using Akrapovič bolt, washers, and nut as shown (Figure 33).



17. For optional carbon-fiber muffler bracket only: align the muffler in respect to the motorcycle and tighten the muffler clamp using Akrapovič bolt, washers and nut as shown (Figure 34).

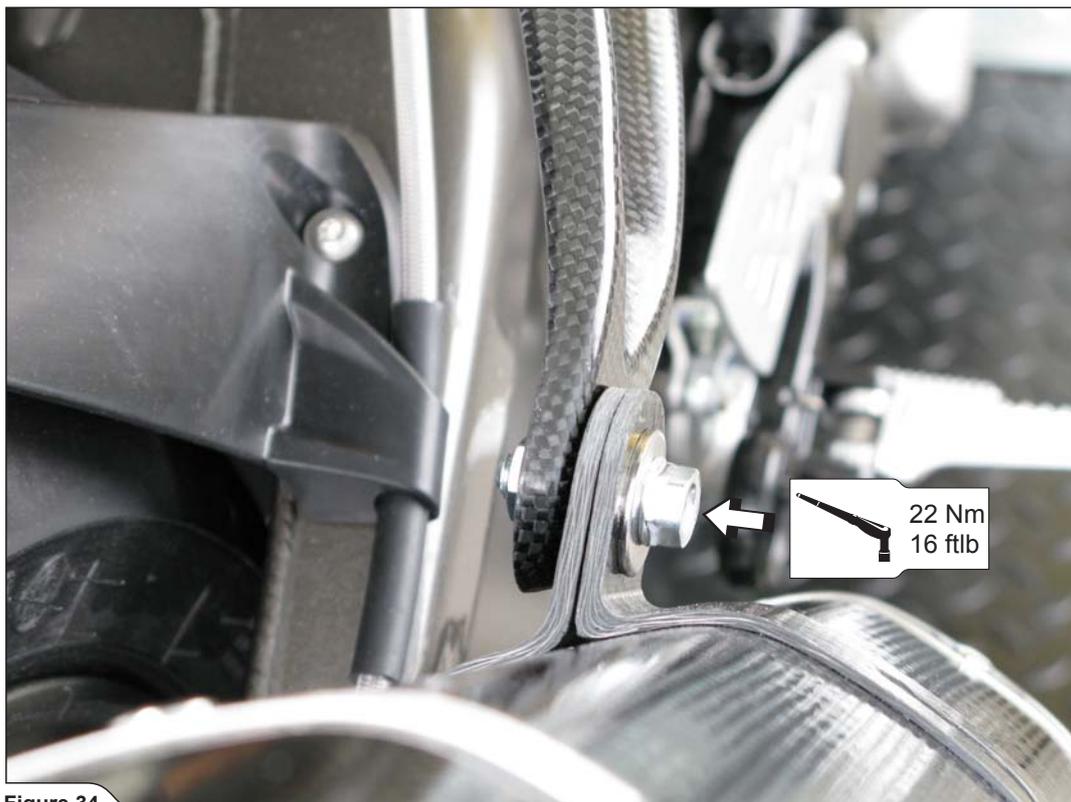


Figure 34

18. Assemble the cowlings in the reverse order from the order in which they were removed (Figure 35).  
**! WARNING: tighten all cowlings bolts to a recommended torque or check vehicle manufacturer manual!**



Figure 35

### **Final installation:**

Clean grease spots:

- a. Muffler – carbon-fiber outer sleeve: use a soft dry cloth.
- b. Muffler – titanium outer sleeve: use a soft cloth sprayed with a multi-purpose spray lubricant (WD-40 or equivalent).
- c. Muffler – carbon-fiber outlet cap: use a soft dry cloth.
- d. RACING - stainless steel link pipe, collectors and header tubes: use a soft cloth sprayed with a contact cleaner, then wipe with a soft dry cloth
- e. EVOLUTION - titanium link pipe, collectors and header tubes : use a soft cloth sprayed with a multi-purpose spray lubricant (WD-40 or equivalent).

Cleaning will prevent spots from burning onto the surface. Do not use aggressive chemical cleaners, because they can damage the 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 stock parts)!**

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

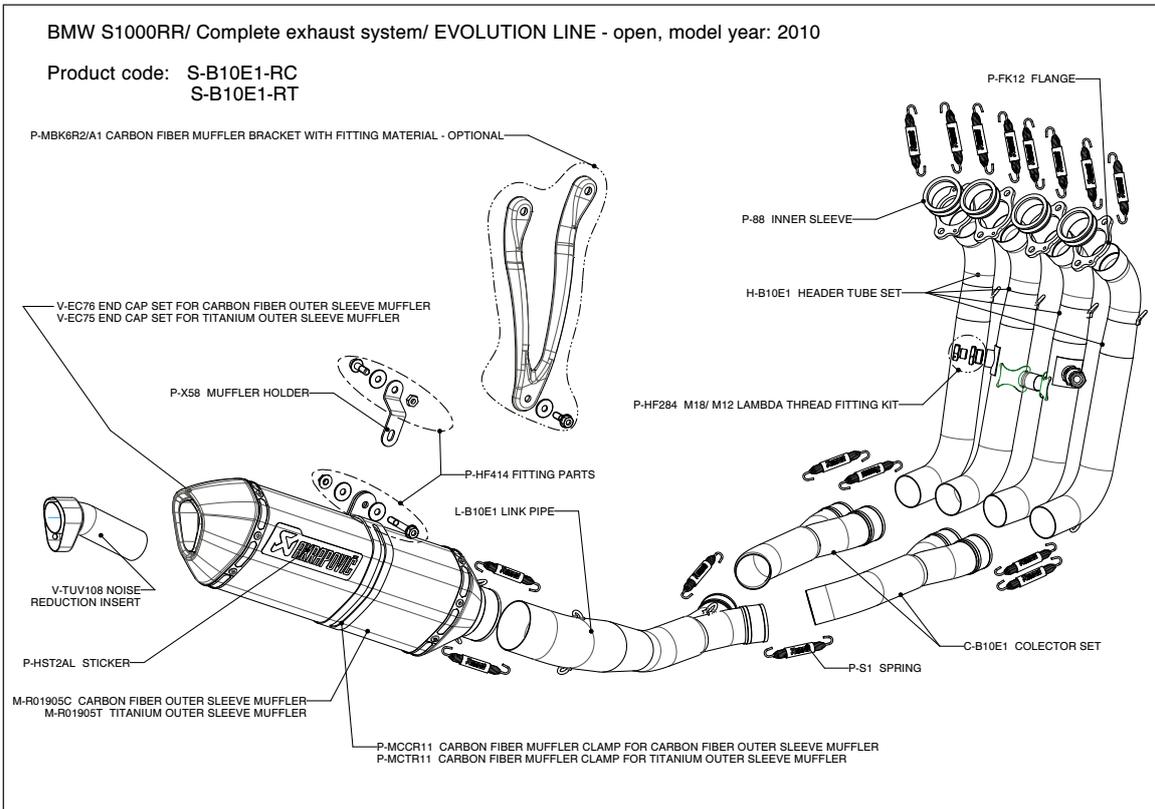
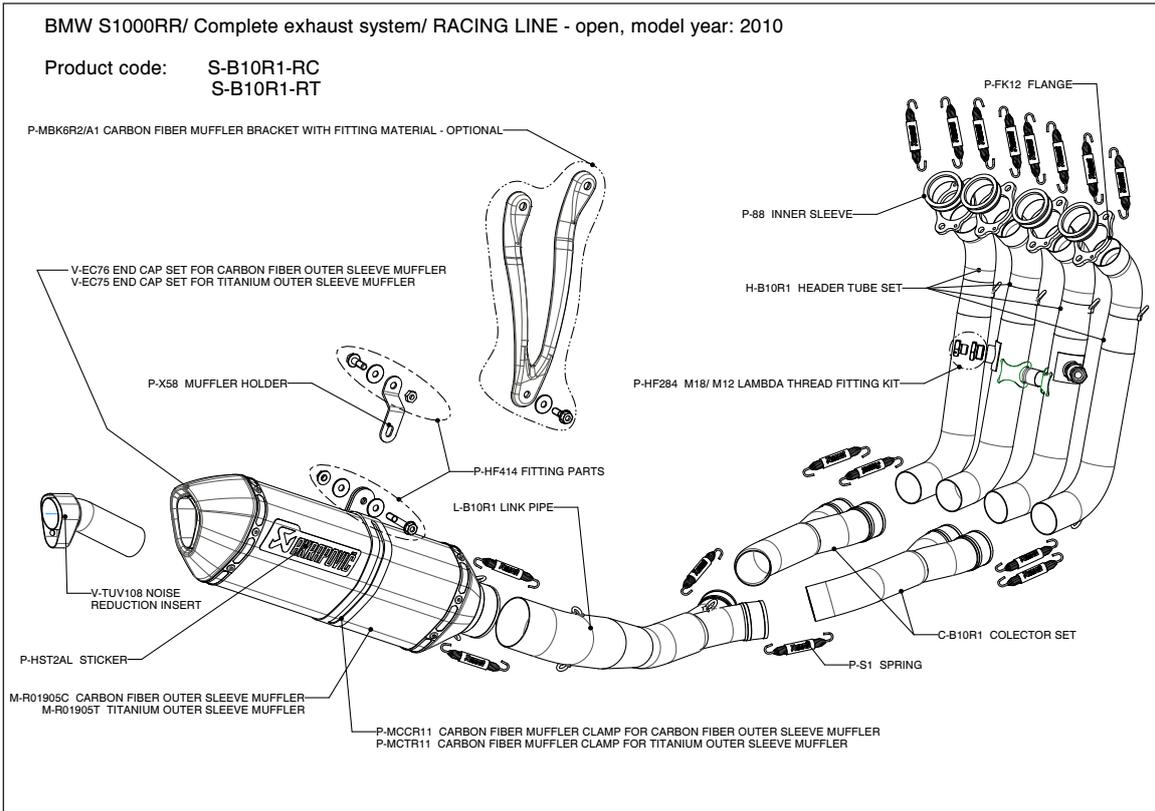
**! DO NOT STAND BEHIND THE MUFFLER ON FIRST OPERATION.**

**! 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**

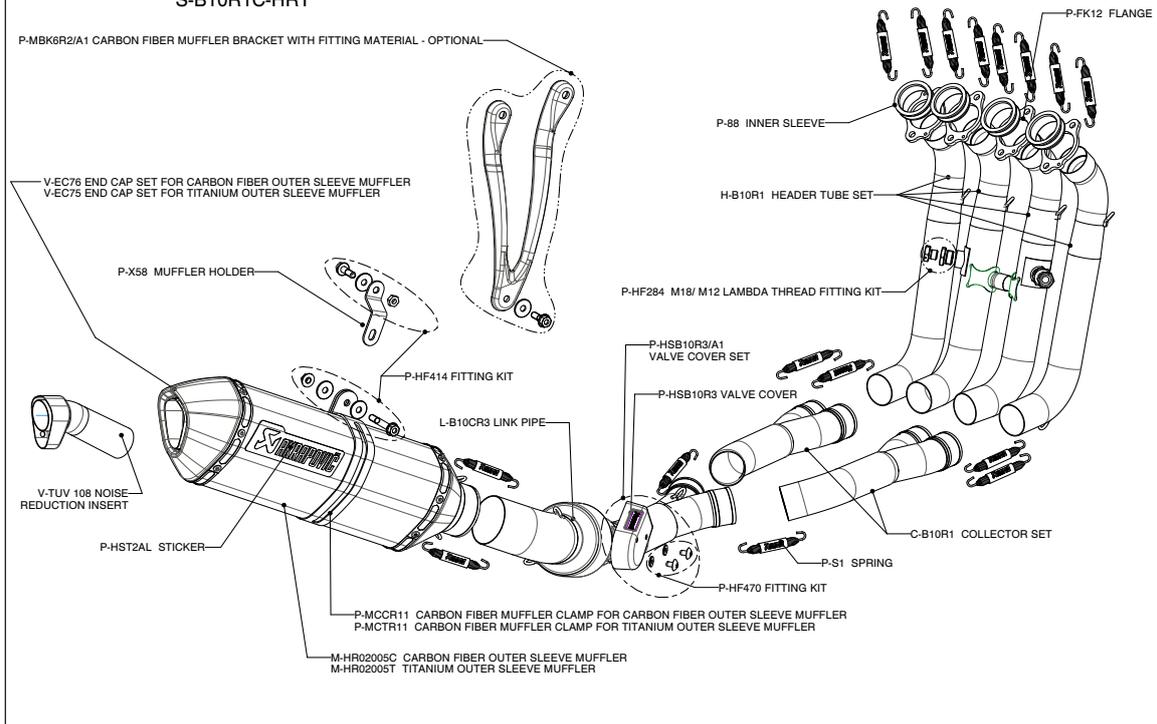
1. Clean the titanium exhaust components with a multi-purpose spray lubricant (WD-40 or equivalent), carbon fiber exhaust components with soft and dry cloth and stainless steel components with soft cloth sprayed with contact cleaner, then wipe with soft and dry cloth. A change in the color of the exhaust system is normal due to the high temperatures.
2. Periodically make sure all the bolts and springs are sufficiently tight.





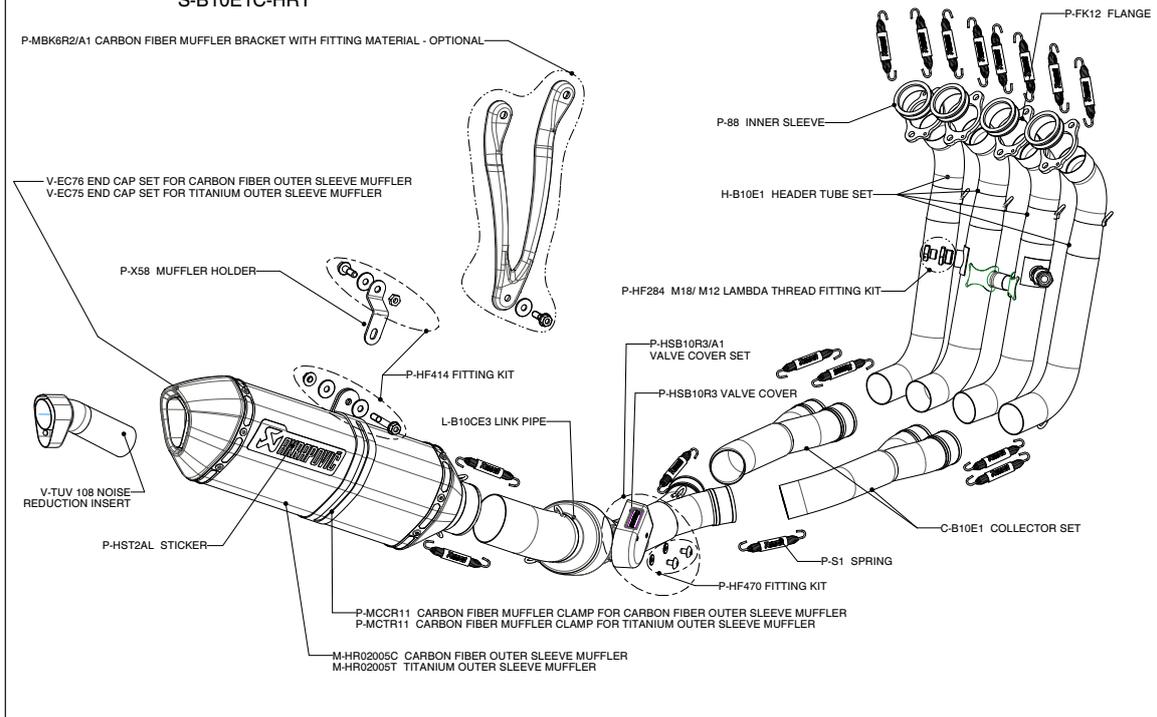
BMW S1000RR/ Complete exhaust system/ RACING LINE street legal, model year: 2010

Product code: S-B10R1C-HRC  
S-B10R1C-HRT



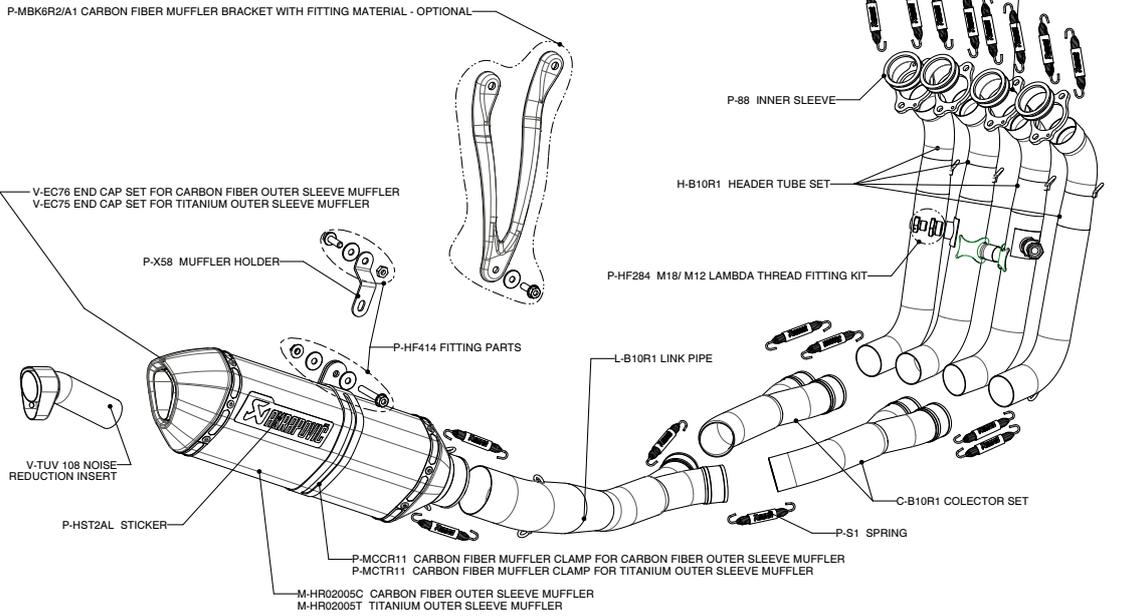
BMW S1000RR/ Complete exhaust system/ EVOLUTION LINE street legal, model year: 2010

Product code: S-B10E1C-HRC  
S-B10E1C-HRT



**BMW S1000RR/ Complete exhaust system/ RACING LINE open tube set with street legal muffler, model year: 2010**

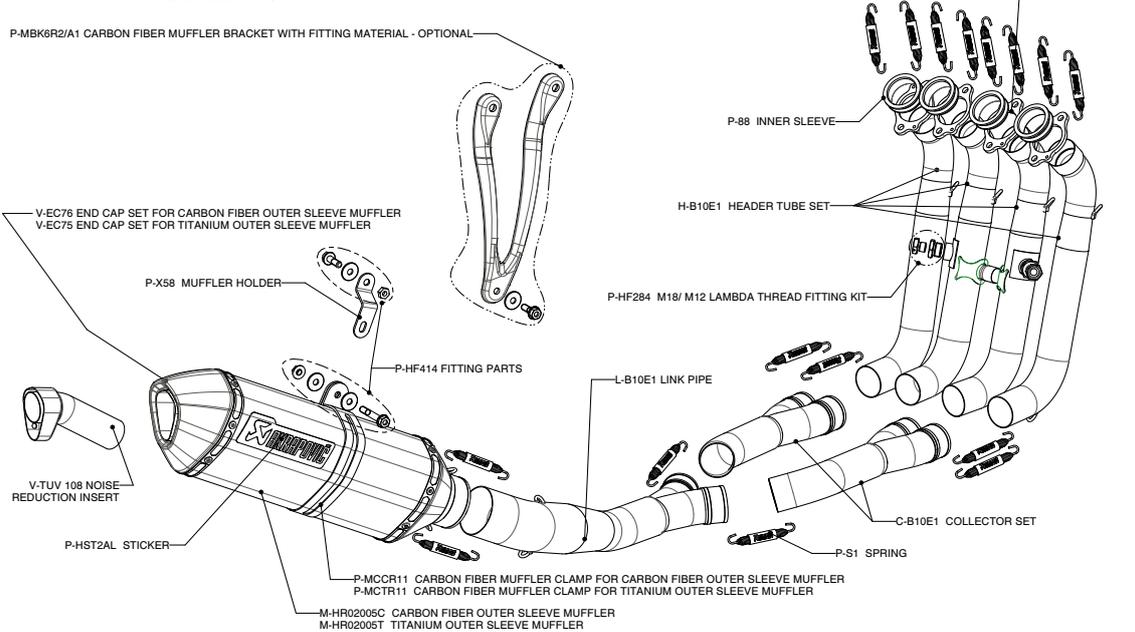
Product code: S-B10R1-RC/1  
S-B10R1-RT/1



**WARNING: IN CASE OF COMBINATION WITH RACING TUBE SET, THE MUFFLER'S HOMOLOGATION IS NOT VALID!**

**BMW S1000RR/ Complete exhaust system/ EVOLUTION LINE open tube set with street legal muffler, model year: 2010**

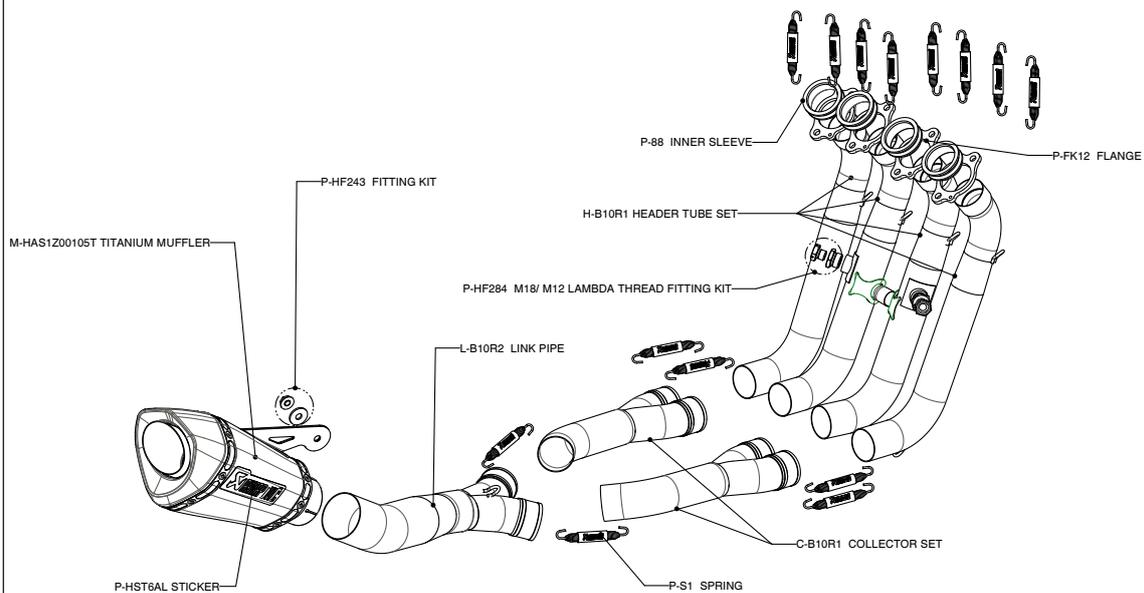
Product code: S-B10E1-RC/1  
S-B10E1-RT/1



**WARNING: IN CASE OF COMBINATION WITH EVOLUTION TUBE SET, THE MUFFLER'S HOMOLOGATION IS NOT VALID!**

BMW S1000RR/ Complete exhaust system/ RACING LINE open tube set with SO street legal muffler, model year: 2010

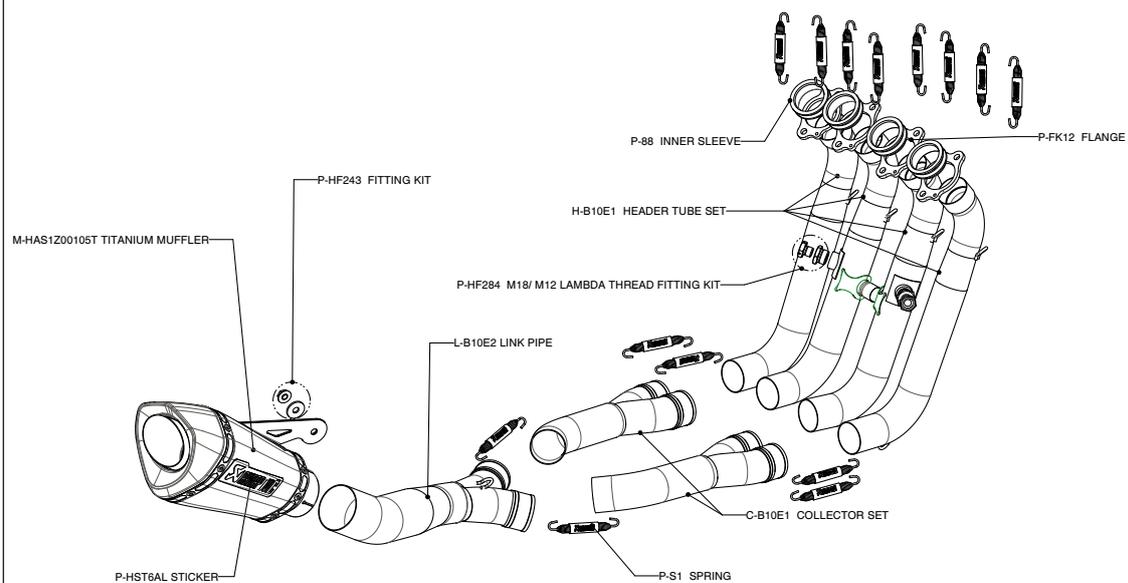
Product code: S-B10R1-ASZ



**WARNING: IN CASE OF COMBINATION WITH RACING TUBE SET, THE SLIP ON HOMOLOGATION IS NOT VALID!**

BMW S1000RR/ Complete exhaust system/ EVOLUTION LINE open tube set with street legal muffler, model year: 2010

Product code: S-B10E1-ASZ



**WARNING: IN CASE OF COMBINATION WITH EVOLUTION TUBE SET, THE SLIP ON HOMOLOGATION IS NOT VALID!**

