

## Installation instructions:



# AKRAPOVIC RACING EXHAUST SYSTEM for the BMW R1200GS/ADVENTURE (2004 – 2009)

Congratulations on purchasing an Akrapovic 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 Akrapovic exhaust system. When installing the Akrapovic exhaust system be careful that the exhaust system does not touch other parts sensitive to high temperature.
2. Akrapovic makes no representation or warranties with regard to damage caused by the improper installation, use and maintenance of the Akrapovic exhaust system. The warranty is limited to defects recognized by our technical department and 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 Akrapovic exhaust system on a motorcycle for which it was not made or tested by Akrapovic.
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 motor is not running. Also protect other people, especially children, from the injuries mentioned above.
5. In some cases Akrapovic 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 Akrapovic exhaust systems and related products subject to change without notice.

#### Trademarks

The Akrapovic Exhaust System Technology logo is a registered trademark of Akrapovic d.d.

#### Akrapovic website

Information about Akrapovic exhaust systems and related products is available on the Akrapovic website at:

<http://www.akrapovic.com/>

#### Copyright

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#### Symbols

The following symbols are used throughout these installation instructions:



**USE BOLT SEALANT;** Apply 3 to 4 small drops of bolt sealant onto the cleaned and degreased threads before tightening bolts. **WARNING! Avoid contact with skin, eyes and mucous membranes. Do not inhale fumes. Keep out of the 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 the 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 the reach of children.**

## **INSTALLATION INSTRUCTIONS**

**⚠ BEFORE INSTALLING CHECK SCHEMATIC OF THE EXHAUST SYSTEM!**

**! IF ANY ITEMS IN THE AKRAPOVIC 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 AKRAPOVIC EXHAUST SYSTEM.**

**! THE EXHAUST SYSTEM CAN BE EXTREMELY HOT. ALLOW THE MOTORCYCLE 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 MOTORCYCLE.**



### **REMOVAL OF STOCK EXHAUST SYSTEM**

1. Put the motorcycle on a side stand, we recommend a racing stand. Unscrew the bolt from the metal clamp at the muffler/link pipe - collector joint (**Figure 1**).

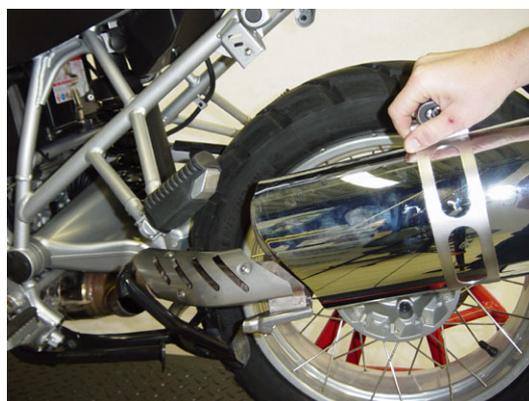


*Figure 1*

2. Unscrew the bolt from the muffler metal clamp and remove the muffler (**Figure 2, 3**).



*Figure 2*

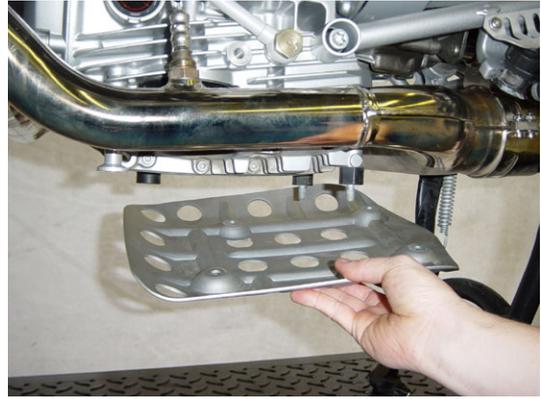


*Figure 3*

3. Remove the belly shield (Figure 4, 5).



**Figure 4**



**Figure 5**

4. Correctly and carefully disconnect the lambda sensor connectors on both sides of the engine (Figure 6, 7, 8, 9).



**Figure 6**



**Figure 7**



**Figure 8**



**Figure 9**

5. Unscrew the lambda sensors from the header tubes (**Figure 10**).



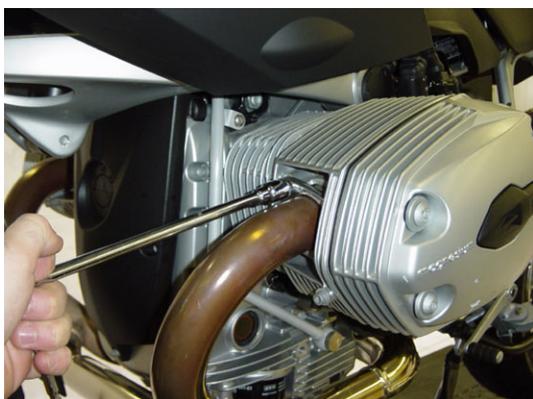
*Figure 10*

6. Loosen the metal clamp at the header tubes – collector joint (**Figure 11**).



*Figure 11*

7. Unscrew the header tube flanges and remove the header tubes (**Figure 12, 13**). **WARNING!** be careful not to damage any part of the motorcycle during this operation; leave the stock gaskets in the exhaust ports!



*Figure 12*



*Figure 13*

## INSTALLATION OF THE AKRAPOVIC RACING EXHAUST SYSTEM

### Installing the header tubes:

1. Set up the sleeves together with the flanges and springs; make sure they are correctly oriented and that the holes for attaching the springs line up with the loops on the header tubes; hand tighten the flanges using Akrapovic nuts (**Figure 14, 15**).



Figure 14



Figure 15

2. Insert the header tubes properly and attach the springs; **WARNING!** make sure, that springs pull the headers all the way into the sleeves – use rubber mallet if necessary to tap the connections into place! (**Figure 16, 17**). Tighten up the flanges to a specified torque (**Figure 17**). Make sure that the header tubes are not touching other parts of the engine.



Figure 16

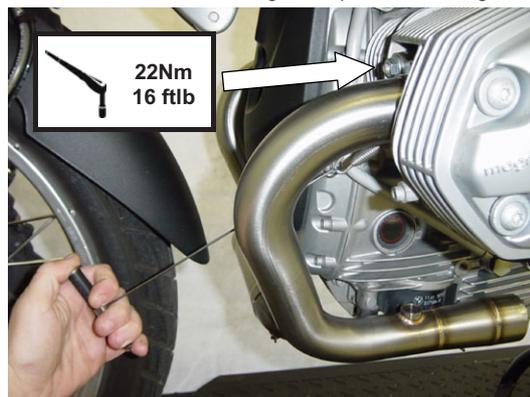


Figure 17

3. Tighten the stock lambda sensors into the Akrapovic header tubes and carefully reconnect the connectors (**Figure 18, 19, 20**). **WARNING!** grease only the threads of the lambda sensor with Akrapovic anti-seize lead-free copper paste (black tube)!

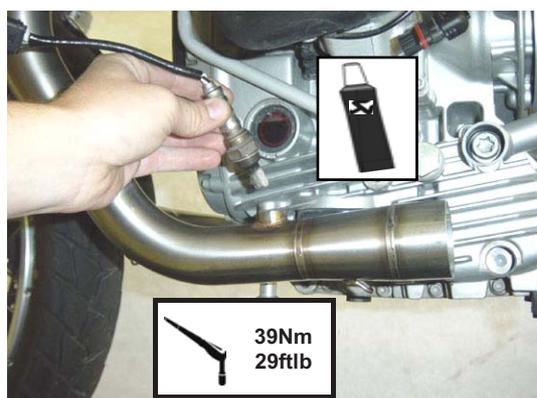


Figure 18



Figure 19



Figure 20

**Installing the independent collector:**

1. Correctly position and slide the Akrapovic Y collector onto the header tubes (bear in mind the hanging bracket of the collector) and attach the springs (Figure 21, 22, 23). **WARNING!** make sure, that springs pull the collector all the way onto the headers – use rubber mallet if necessary to tap the connections into place! Make sure the collector is not touching the engine, frame or any other parts of the motorcycle.



Figure 21



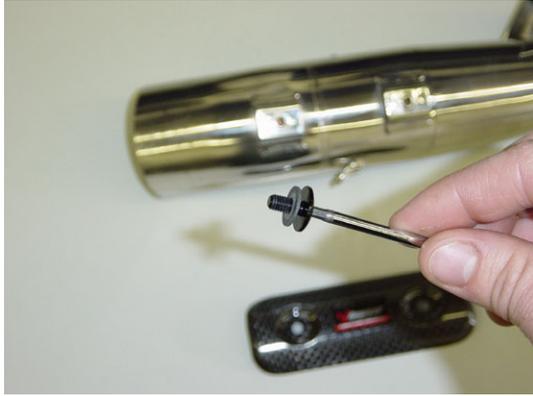
Figure 22



Figure 23

**Installing the independent link pipe:**

1. Correctly position and install heat resistant washers and bolts onto Akrapovic carbon-fiber heat shield (**Figure 24, 25**).

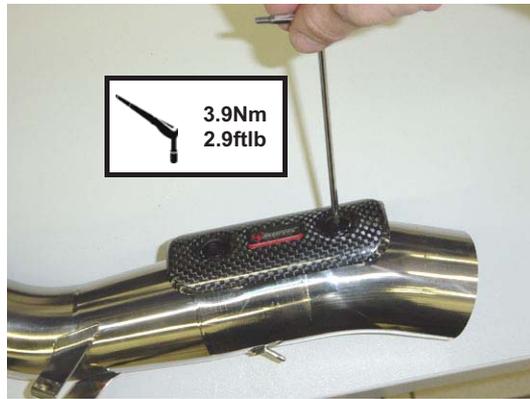


*Figure 24*



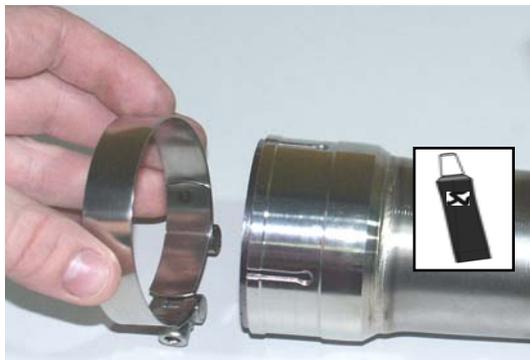
*Figure 25*

2. Correctly position and install Akrapovic carbon-fiber heat shield onto Akrapovic link pipe (**Figure 26**).



*Figure 26*

3. Coat the bolt and interior of the metal clamp with Akrapovic anti-seize lead-free copper paste (black tube) and correctly install the metal clamp onto the link pipe (**Figure 27**).



*Figure 27*

4. Correctly position and slide the Akrapovic link pipe onto the collector (**Figure 28**).



Figure 28

5. Attach the spring at the link pipe – collector joint and tighten the bolt of the metal clamp (**Figure 29, 30**). Make sure that the link pipe is not touching the frame or any other part of the motorcycle.



Figure 29

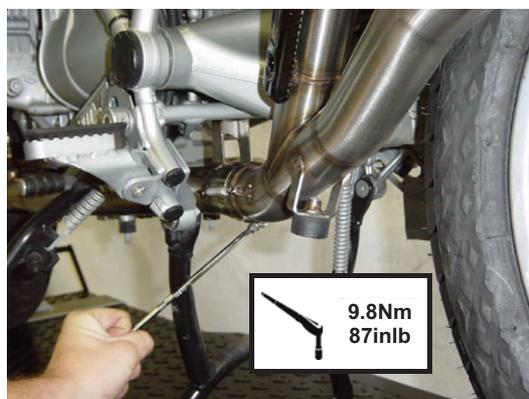


Figure 30

#### Installing the mufflers:

1. Position both mufflers correctly and slide them onto the outlet side of the Y link pipe and attach the springs at the mufflers - link pipe joint (**Figure 31, 32**). **WARNING!** make sure, that springs pull the mufflers all the way onto the link pipe – use rubber mallet if necessary to tap the connections into place!



Figure 31



Figure 32

1. Correctly position the double carbon-fiber clamp and slide it onto both mufflers, bear in mind the **right offset** of the carbon-fiber clamp viewed from the rear; **WARNING! open the clamp slightly wider than the diameter of the outer sleeve of the mufflers – do not scrape it along the muffler outer sleeve!** tighten the carbon-fiber clamp onto the stock chassis hanging bracket on the frame - use the bolt and washer supplied in the Akrapovic kit. Do not fully tighten. Make sure the additional parts from the Akrapovic kit are correctly installed. Align the mufflers in respect to the motorcycle and tighten the mufflers clamp bolts to a specified torque (**Figure 33, 34, 35, 36**).



Figure 33

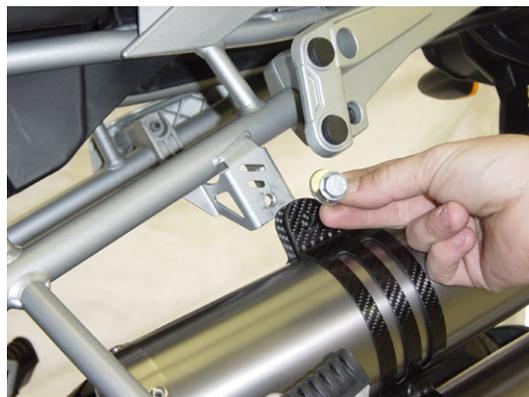


Figure 34

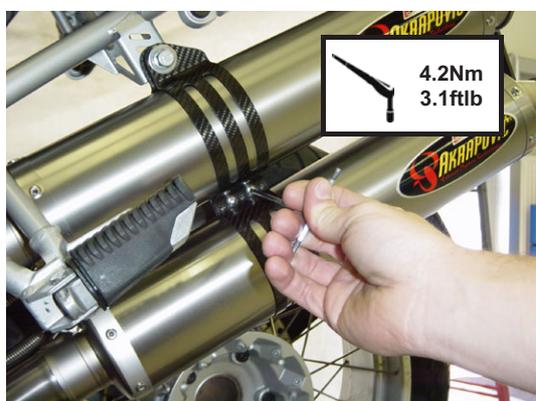


Figure 35

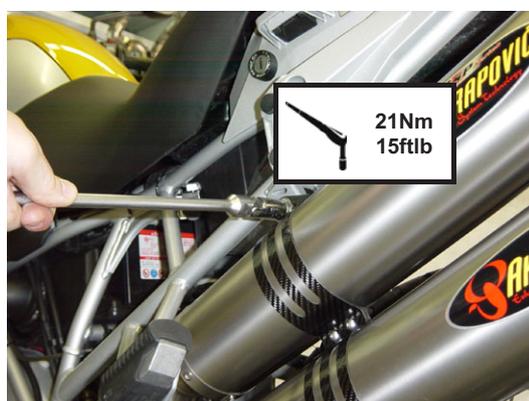


Figure 36

#### Final installation:

1. Replace the belly shield (tightening torque: M6=9.8Nm/7lbft ; M8=22Nm/16lbft).
2. Clean grease spots:
  - a. Mufflers – titanium outer sleeve: use a soft cloth sprayed with a multi-purpose spray lubricant (WD-40 or equivalent).
  - b. Stainless steel link pipe, collector, header tubes: use a soft cloth sprayed with a contact cleaner, then wipe with a soft dry cloth.

Cleaning will prevent spots from burning onto the surface. Do not use aggressive chemical cleaners, because they can damage the sticker.

3. Position of the installed Akrapovic RACING system (Figure 37, 38).



Figure 37



Figure 38

4. **WARNING!** after running engine for 30 minutes, tighten the bolts on the Akrapovic carbon-fiber heat shield !

Check the operation of the brakes and suspension. 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.

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

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

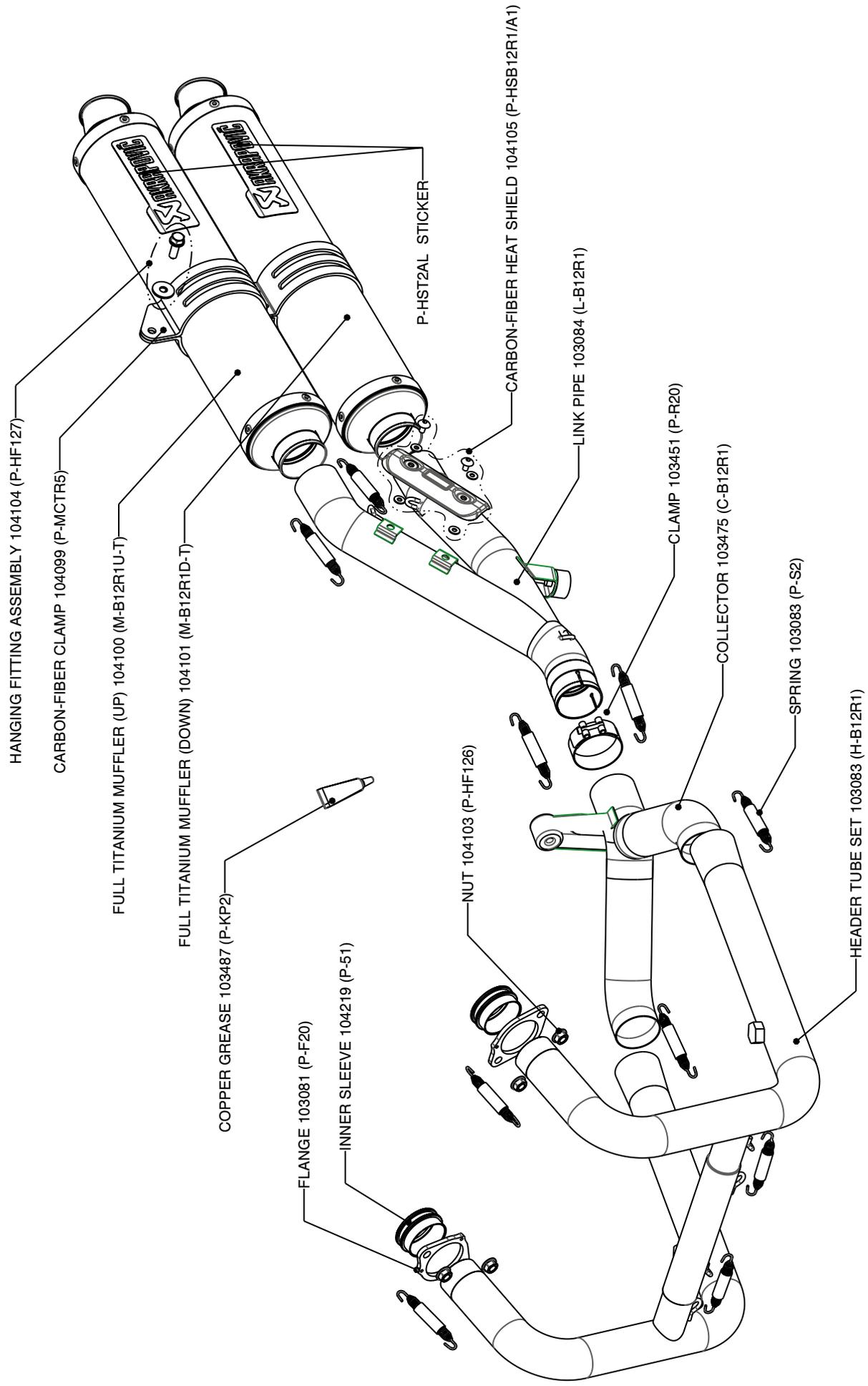
**!** DO NOT USE AUTOMOTIVE WHEEL CLEANERS OR ANY CLEANING PRODUCTS WHICH CONTAIN ACIDIC ADDITIVES TO CLEAN AKRAPOVIC EXHAUST SYSTEMS.

#### **MAINTENANCE OF THE AKRAPOVIC 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. Do not use aggressive chemical cleaners, because they can damage the sticker. A change in the color of the exhaust system is normal due to the high temperatures.
2. The wearing out of the muffler silencing material depends on the type of the engine and riding style. Contact your dealer/serviceman if visible changes appear on muffler's outer sleeve or the noise level is increased.
3. Periodically make sure all the bolts and springs are sufficiently tight.

# BMW R1200GS / R1200GS ADVENTURE, Complete exhaust system / Racing line / Model year: 2004 - 2009

Product code: 104060 (S-B12R1-T)



Product code: S-B12R1-C/1  
S-B12R1-T/1

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

