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## **INSTALLATION AND OWNER'S MANUAL** **Full Titanium Exhaust Kit Z4031** **for use with K1200 S Model**

Please read these instructions carefully and thoroughly before beginning work.

Before installing accessory, carefully consider whether one possesses the necessary technical skills and workshop tools to complete the installation properly. Otherwise, any Motorcycle Retailer will be glad to install this accessory.

Dealers, if installing the Exhaust for a customer please give him this manual. It contains the instructional and reference material needed to properly maintain and use this product.

At time of purchase report any missing parts directly to ZTechnik. The following information is necessary: BAG NUMBER on outside of plastic fastener bag and DATE STAMP located on the end panel of the outer box.

Thank you.

The following symbols are used in these instructions:



Special notes and cautionary measures.



Tips for facilitation of operation, control and adjustment, as well as maintenance work.

### PARTS LIST

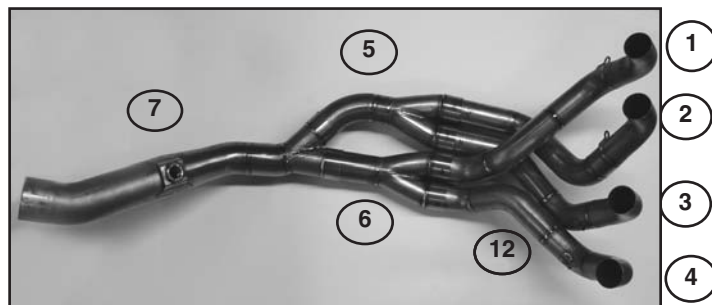
Index	Description	Qty.
1	Head Pipe Cylinder 1	1
2	Head Pipe, Cylinder 2	1
3	Head Pipe, Cylinder 3	1
4	Head Pipe, Cylinder 4	1
5	Mid Collector with Bend	1
6	Mid Collector	1
7	Final Collector Pipe	1
8	Silencer	1

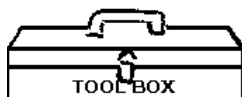
### Parts Bag

9	Nut, M8,	1
10	Screw, M8 x 45	1
11	Washer	2
12	Hanger Bracket, Aluminum	1
13	Hanger Rubber	1
14	Retainer Spring	11
15	Cover, Retainer Spring	11
16	Spigot	4
17	Hook	4
18	Warranty Card	1
19	Sealant Packet (Not Pictured)	1

### Other Parts Needed:

Exhaust Gaskets, BMW Part No. 18-21-7-676-804	4
Nuts for Cylinders, BMW Part No. 18-21-7-676-551	8





Torx Wrench, T-25 and T-45  
 10mm, 12pt. Box End Wrench  
 or  
 Socket, 10mm, 12pt.  
 Extension, 6"  
 Hex Key Wrench, 5mm  
 Wrench, 22mm  
 Pliers, Needle Nose  
 Spring Puller  
 Hex Key Wrench, 6mm  
 13mm Wrench  
 Anti Seize Compound, not pictured



Warranty Card, item 15 must be completed and mailed back to National Cycle, Inc.



Right and Left side of Motorcycle is determined while sitting on the bike.

### PREPARATION:

1. Position the motorcycle securely on its center (main) stand.



**TIME SAVER TIP** Retain all fasteners from upper and lower fairing panels for use during re-assembly. As you remove fasteners, bag them and label bag. Different length screws are used to install the fairing panels, bagging them will make re-assembly much smoother.



2. Remove the side and lower fairing panels from the left and right side. (**Torx Wrenches T25 and T45 and 5mm Hex Key**)

3. Remove the heat shield cover. (**T25 Torx Wrench**) **Figure 1.**

4. Loosen the muffler hanger. (**T45 Torx Wrench**) **Figure 2.**

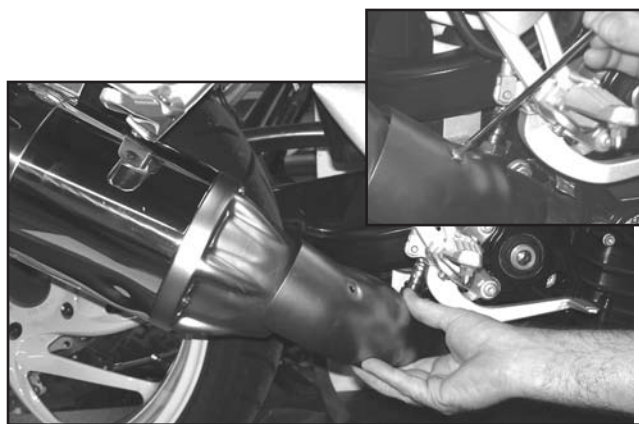


Figure 1



Figure 2

## PREPARATION CONTINUED

5. Loosen the muffler clamp. Make very loose. **(T45 Torx Wrench)** **Figure 3.**



Figure 3

6. Remove muffler. **Figure 4.**



Figure 4

7. Remove the Lambda sensor. **(22mm wrench)** **Figure 5.**



Do not let the wires to the Lambda sensor get twisted.  
Do not damage the sensor.



Figure 5

8. Loosen the nuts that hold the exhaust system to the cylinder head. **(10mm 12pt Box End Wrench or 10mm 12pt. Socket with Extension)** **Figure 6.**



We recommend replacing the 8 nuts (BMW# 18-21-7-676-551) and the 4 exhaust gaskets(BMW# 18-21-7-676-8084).

9. Remove Nuts.



Support the head pipe as you remove last 2 nuts. .



Figure 6




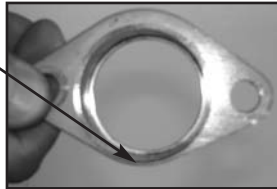
## INSTALLATION

1. Assemble the four Header Pipes to the Mid Collectors as shown in the Parts Callout on Page 1. Apply a thin coat of Sealant where Pipes slide together

**For installation steps 2-5 you will need the 4 Spigots and Hooks package with the exhaust and 4 Stock BMW Gaskets and 8 Nuts.**

2. Install a new exhaust gasket on a Spigot. The gasket goes against the face of the Spigot with the deep rim. (Same side that goes against the cylinder.) **Reference figure 8.**

 Install Spigot with deep side toward cylinder and narrow edge down.



3. Hold Spigot in place at the inside of the Spigot with one nut. Refer to **Figure 9.**




Figure 8



Figure 9

4. Locate the 4 Hooks from parts bag. Install a Hook to the first cylinder. **(10mm, 12pt. Box End Wrench) or (10mm 12pt. Socket) Figure 10.**

 Hook bends to the outside of nut.

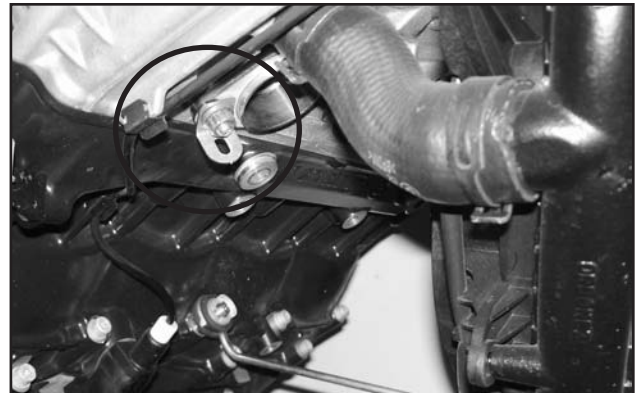


Figure 10.

5. Tighten the 8 nuts to: 14 Nm. **(10mm, 12pt. Box End Wrench) or (10mm 12pt. Socket)**

6. Remove retainer that holds lower support for radiator. **(Pliers) Figure 11.**


 Strap the radiator to gently pull it forward while installing exhaust.



Figure 11

7. Install rubber cover over Springs.  
**Figure 12.**



Figure 12

8. Install header assembly. With a little maneuvering, head pipe assembly will slide into place. **Figure 13.**

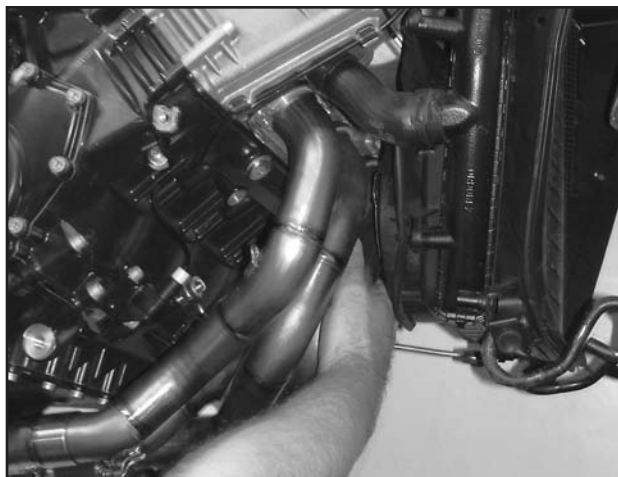


Figure 13

9. Install Springs. Four at head pipes, four at mid collector and 2 at final collector. **(Spring Puller) Figure 14.**

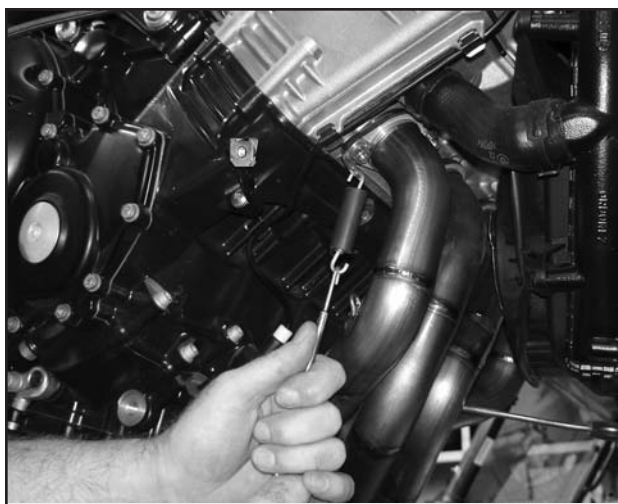


Figure 14

10. Re-install the radiator support.

11. Apply Antiseize Compound to the threads of the Lambda sensor.  
**Figure 15.**



Figure 15

12. Wind up (4-5 turns) the wire of the Lambda Sensor. Re-install Sensor. **(22mm Wrench) Figure 16.**



Figure 16

13. Assemble Rubber Strip to Hanger Strap. **Figure 17.**



Figure 17

14. Use Sealant supplied in parts bag and apply some to outside of Muffler. Install Muffler. **Figure 18.**



Figure 18

#### USE FASTENERS FROM PARTS BAG TO INSTALL HANGER BRACKET

15. To the outside of exhaust mount, install the Hanger Bracket/Rubber Assembly using the Screw and one Washer.

To the inside of Exhaust Mount install the second Washer and secure with Nut.

Tighten Hanger assembly. **(13mm Wrench and 6mm Hex Key) Figure 19.**

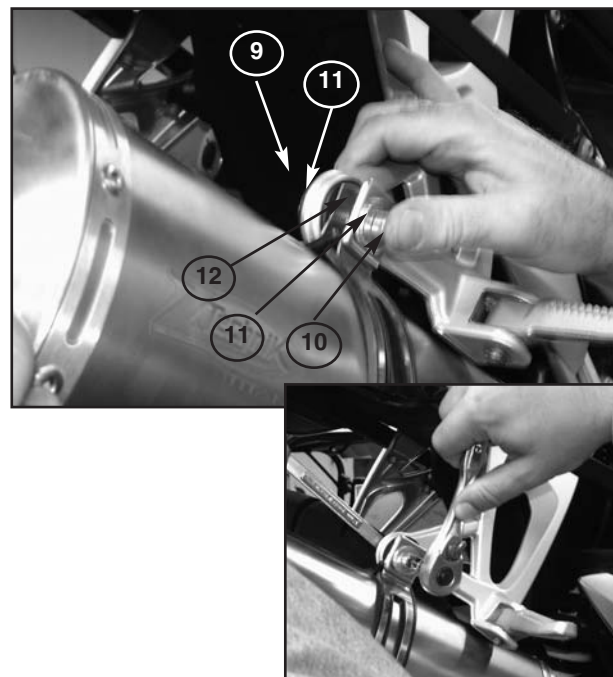


Figure 19

16. Install the last Spring. **(Spring Puller) Figure 20.**



Figure 20

17. Reassemble Body Panels. **(T25 and T45 Torx )**

18. Check operation of exhaust.



**WARNING** If the addition of an accessory(ies) adversely affects your motorcycle's stability immediately remove the accessory(ies). Do Not ride a motorcycle that exhibits unsafe handling traits. Have experienced service personnel correct any problem before riding with the accessory(ies) installed. For further questions concerning handling problems associated with an accessory(ies), contact your dealer, motorcycle manufacturer, or accessory manufacturer.



**MAINTENANCE** Repack the mufflers at 6000 mile (10,000 km) intervals. The muffler repack kit is Z-Technik #Z4031-001. Discoloration can be removed from the Exhaust System with a quality metal polish. Be sure to remove all polishing compound residue from the Exhaust System before running the engine. Refer to the WARRANTY PAMPHLET 10-11841-000 for complete Repack and Maintenance Instructions.