

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 or her 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:



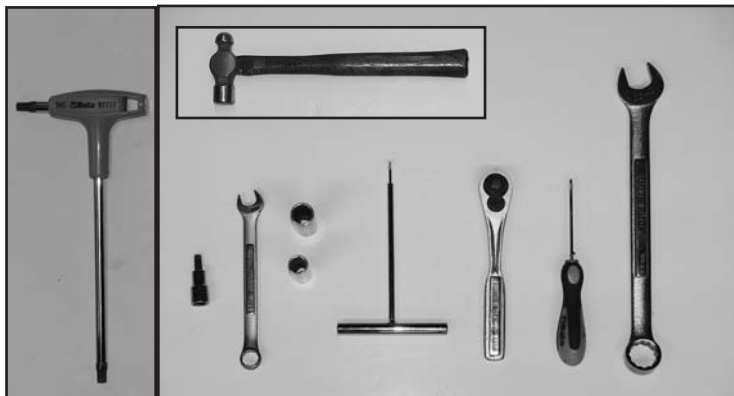
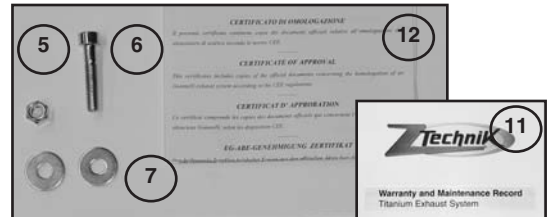
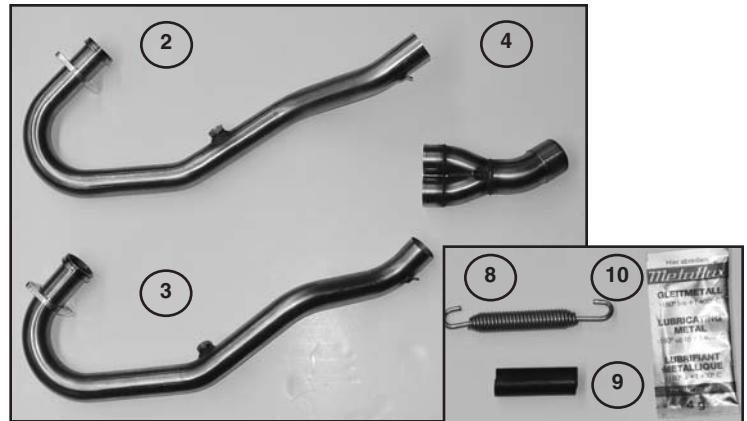
Special notes and cautionary measures.



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

### PARTS LIST

Index	Description	Qty.
1	Silencer, 40-400104-000	1
2	Head Pipe, Right	1
3	Head Pipe, Left	1
4	Mid Collector	1
<b>Parts</b>		
5	Nut	1
6	Screw	1
7	Washer	2
8	Springs	2
9	Covers	2
10	Sealant	1
11	Warranty Card	1
12	ABE/ EC Documentation	2



- T45 Torx
- 6mm Hex Socket
- 13mm Wrench
- 15mm Deep Well Socket
- 12mm Deep Well Socket
- Spring Puller
- Ratchet
- Small Flat Blade Screwdriver
- 22mm Wrench
- Hammer
- Torque Wrench to measure 20 ft.-lbs. (not shown)
- Vice (to hold muffler clamp while removing spacer)
- Anti Seize Compound (not shown)



## PREPARATION



Warranty Card should be completed and mailed back to National Cycle, Inc.



Right and left side of motorcycle is determined while sitting on the bike.

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



### LAMBDA SENSOR

Handle the Lambda sensor carefully. Do not pull or twist wires.

2. Remove the lambda sensor wire connector by sliding to the rear. Open Connector and pull apart Lambda sensor wires. Repeat on opposite side. **(Small Flat Blade Screwdriver)** **Figure 1 and 2.**

3. Loosen the muffler clamp. **(15mm Deep Well Socket)** **Figure 3.**

4. Loosen the stock muffler from hanger. Hardware will not be re-used. **(T45 Torx Wrench)** **Figure 4.**

5. Remove stock muffler and muffler clamp. **Figure 5.**

### Remove Clamp Spacer From Muffler Clamp



To fully tighten the new ZTechnik Silencer, the spacer will be removed from the muffler clamp as instructed in preparation steps 6 and 7 below.

6. To prevent damage to bolt threads, back out nut beyond the end of bolt. This will loosen nut to break seal and allow you to remove the spacer. **(15mm Deep Well Socket)** **Figure 6.**

- 7 To remove spacer from the muffler clamp, hold clamp on vice with jaws open to accept the bolt head. Tap firmly on the end of nut to loosen spacer from splined shaft of bolt. **(Hammer)** **Figure 7.**

8. Remove spacer. It will not be re-used.

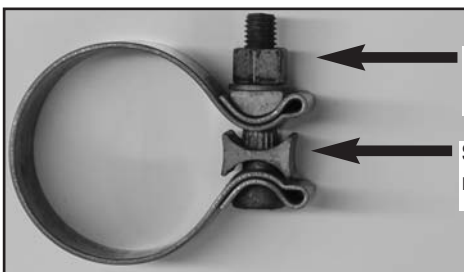


Figure 6

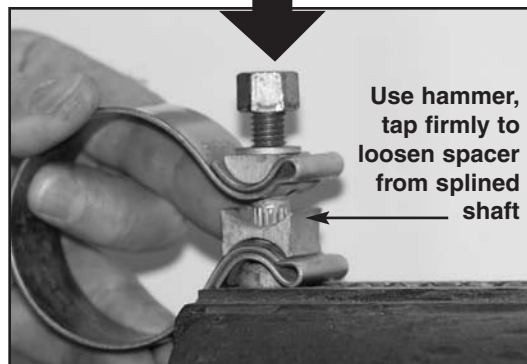


Figure 7



Figure 1



Figure 2



Figure 3



Figure 4



Figure 5

## PREPARATION CONTINUED

### Head Pipes

9. Loosen the two nuts that hold the exhaust system to the cylinder head. Repeat on opposite side. Support the system as you remove it from the motorcycle. **(12mm Socket and Extension) Figure 8 and 9.**

 We recommend replacing the two exhaust gaskets (BMW# 18-11-7-673-763).

10. Remove the two Lambda sensors from the system. Keep left and right sides separated. **(22mm Wrench) Figure 10.**

11. Apply anti seize compound to the threads of each Lambda sensor. **Figure 11.**

12. Install the appropriate Lambda sensor into the left and right ZTechnik head pipe. **(22mm Wrench) Figure 12.**



Figure 8

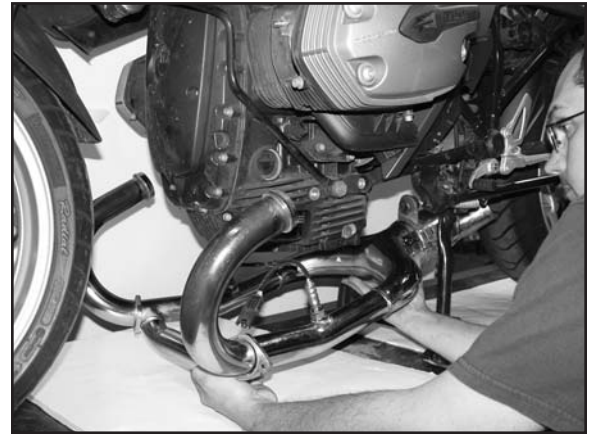


Figure 9



Figure 10

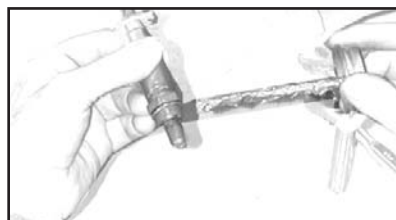


Figure 11



Figure 12

## INSTALLATION OF ZTECHNIK SYSTEM

1. Install a new exhaust gasket on the spigot.
2. Install the left and right Head Pipes to the motorcycle. Do not fully tighten nuts. **(12mm Socket and Extension) Figure 13.**
3. Use the sealant supplied in parts the bag and apply a small amount to outside of each head pipe. **Figure 14.**
4. Install the mid collector. **Figure 14.**
5. Apply a *small* amount of Sealant on the inside of the new Silencer. **Figure 15.**
6. Install Silencer. **Figure 16.**

### Install Hanger Hardware

7. Use hardware from parts bag and install one washer on screw. **Figure 17 inset.**
8. Use screw assembly and install silencer with Silencer Bracket to the inside of hanger bracket. Secure with additional washer and nut. **(6mm Hex, 13mm Wrench) Figure 17.**



Figure 13

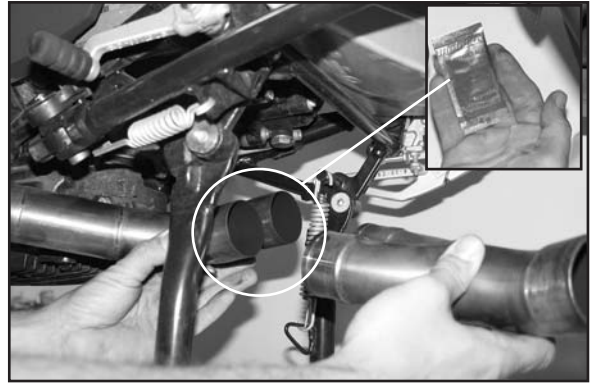


Figure 14

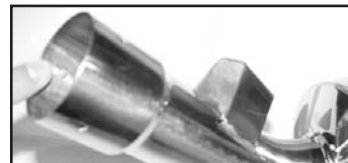


Figure 15



Figure 17



Figure 16

9. Install rubber cover over Springs. **Figure 18.**

10. Install the two springs. Hook springs on mid collector and pull toward head pipe. **(Spring Puller) Figure 19.**

#### Tighten Hardware, Reconnect Lambda Sensor Wires

11. Tighten nuts at left and right head pipes. Tighten hanger hardware. **(12mm Socket and Extension) (6mm Hex, 13mm Wrench) Figure 20.**

12. **From the left side of motorcycle,** position stock muffler clamp. with screw head facing down and inside as shown in figure 21. Tighten clamp (now, without the spacer) to 20-ft.-lbs. (27 Nm). **(Torque Wrench) Figure 21.**

13. Reconnect the Lambda sensor wires on both left and right sides.

14. Check operation of exhaust.



Figure 18



Figure 19



Figure 20

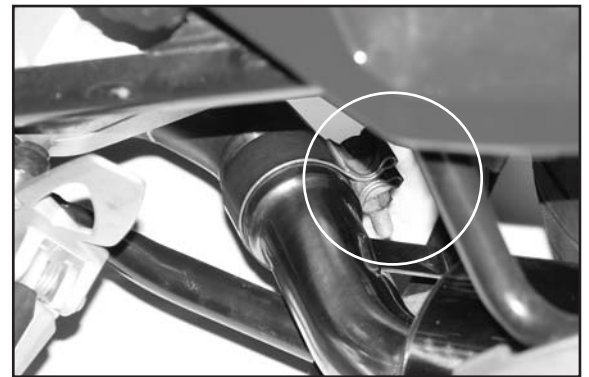


Figure 21



**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** 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 10-118410-000 for complete Repack and Maintenance Instructions.

**Thank you for your purchase of a genuine ZTechnik Accessory. Also available for the R1200 RT**

Z2404 VStream® Aeroacoustic Windshield Quantum™ coated Lexan® polycarbonate; Z2202 Dark Sport Windshield Quantum coated Lexan polycarbonate / CARBON FIBER Z8305 Kit, Includes the Main Dash, Tank, Rear Rack; Z8503 Tank; Z8890 Fuel Cap Trim / TECHMOUNTS® Z6100 Mirror Mount; Z6131 Control Mount

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