



PARTS LIST

Index	Description	Qty.
1	Head Pipe, Left	1
2	Head Pipe, right	1
3	Collector Pipe	1
4	Silencer	1
Parts Bag		
5	Bumper, Rubber, Center Stand	1
6	Nut, M8, Locking	1
7	Screw, M8 x 25	1
8	Screw, M8 x 20	1
9	Washer, Flat	3
10	Pipe Clamp	2
11	Retainer Spring	3
12	Cover, Retainer Spring	3
13	Hanger Bracket, Aluminum	1
14	Hanger Clamp	1
15	Rubber Strip, Hanger Clamp	1
16	Cover, Hanger Clamp Edge	1
17	Cable Ties (not picutred)	6
18	Warranty Card	1



Torx Wrench, T-40
Socket, 15mm
Ratchet Wrench
Wrench, 13mm
Wrench, 22mm
Hex Key Wrench, 6mm
Socket, 10mm
Diagonal Cutter
Spring Puller
Block to rest exhaust (Wood about 8 inches tall)
Anti Seize Compound

NOTE: Warranty Card, item 18 must be completed and mailed back to National Cycle, Inc.

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

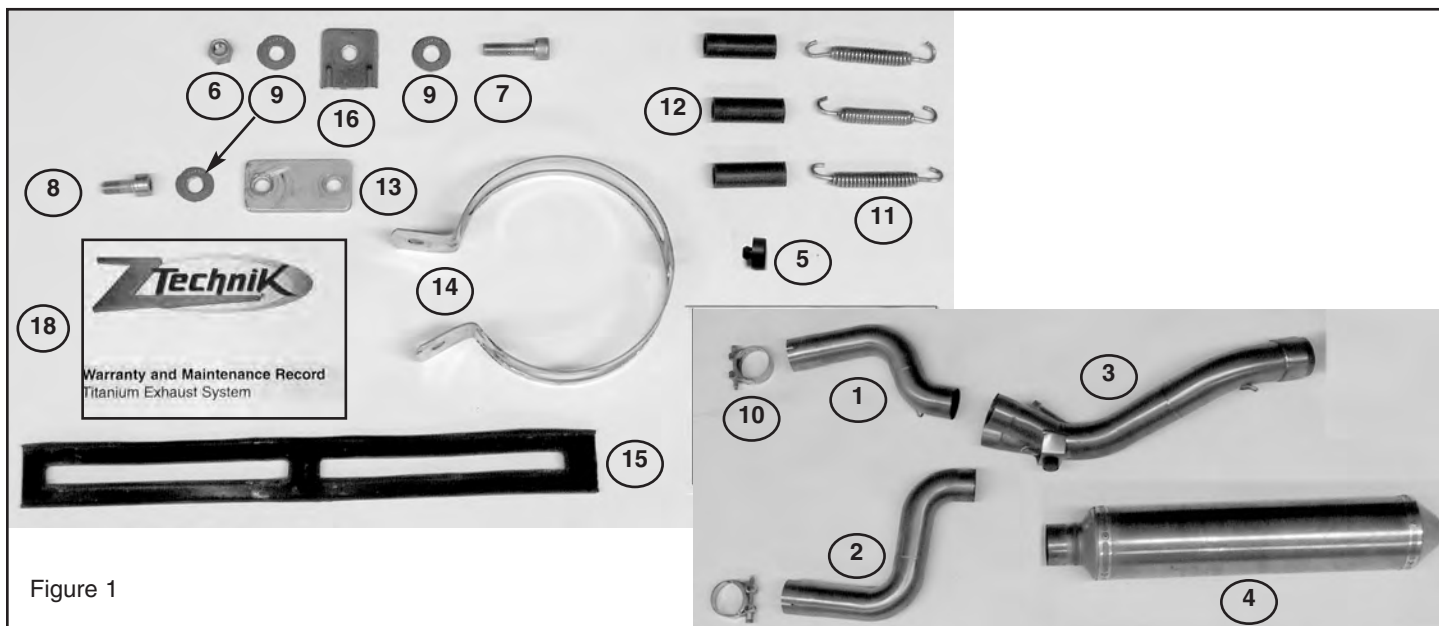


Figure 1

PREPARATION

1. Complete and return Warranty Card, item 18 to ZTechnik.
2. Position the motorcycle securely on its side stand or a work stand.
3. Remove seat.
4. Remove side cover, on the right side just below the rear of the fuel tank, then remove nut and bolt from fuel tank bracket. **Figure 2.**
5. Disconnect the fuel pump wire harness and fuel pump connection hose. **Figure 3.**
6. Remove fuel tank. Lift tank from rear and pull straight out. **Figure 4.**
7. Follow the wires from the Lambda sensor on the exhaust to its connector on the right frame rail above the right cylinder. Cut the cable ties and disconnect the sensor at the cylindrical plug (about 2 1/2 inches long.) **Figure 5.**
8. Remove the Torx screws from the sides of the exhaust, located on the center stand pivot brackets (Torx wrench, T-40). **Figure 6.**



Figure 2

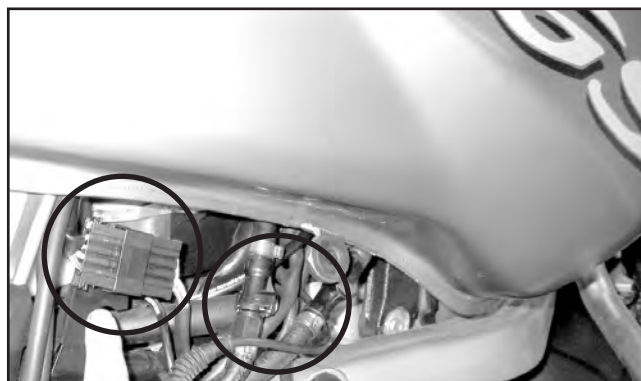


Figure 3



Figure 4



Figure 6

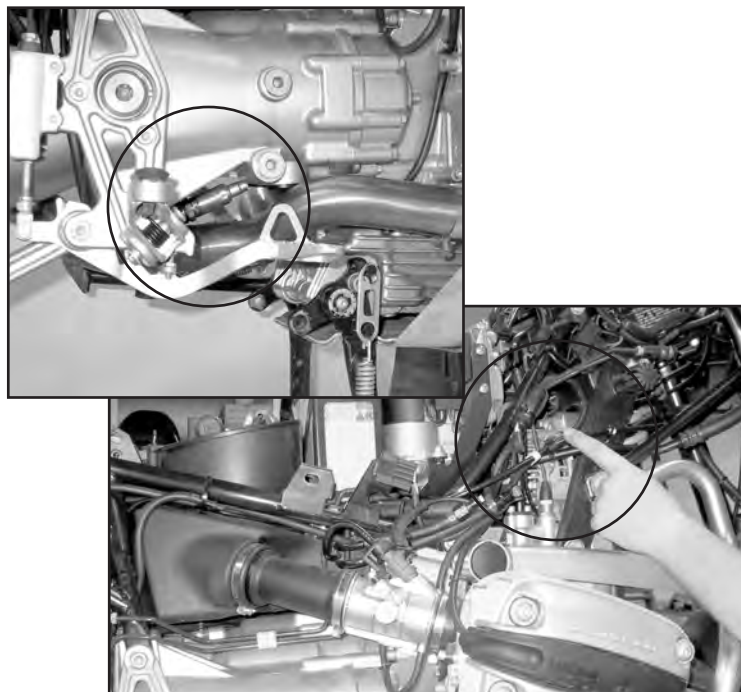


Figure 5

PREPARATION CONTINUED

9. Loosen the pipe clamps just below the cylinders (socket, 15mm). **Figure 7.**

10. Remove the screw that attaches the muffler to the passenger pegs (hex key, 6mm). **Figure 8.**

11. Carefully, slide the exhaust rearward until it separates from the pipes under the cylinders. Let the exhaust rest on the Block. **Figure 9.**

12. Remove the Lambda sensor (22mm wrench). Do not twist the wires to the Lambda sensor. Do not damage the Lambda sensor. **Figure 10.**



Figure 7



Figure 8



Figure 9

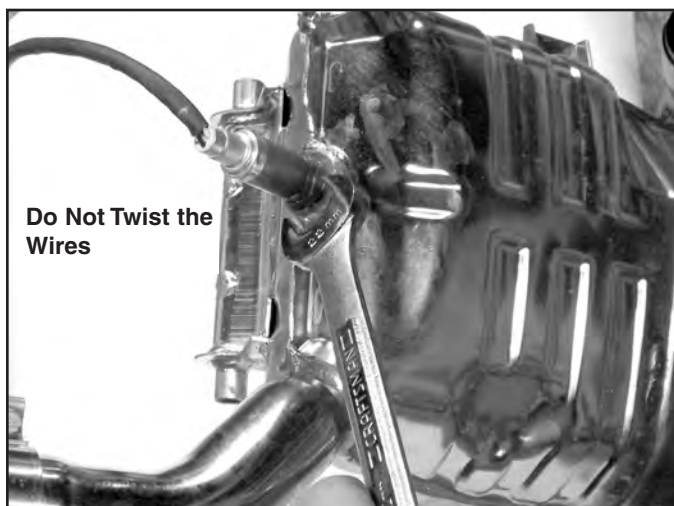


Figure 10

INSTALLATION

1. Apply a thin film of Sealant to the inside of the Head Pipes, at the end with the slits. **Figure 11.**
2. Slip a Pipe Clamp onto a Head Pipe then slide the Head Pipe onto the appropriate pipe under the cylinders. Repeat on the remaining side. Do not tighten the Clamps. **Figure 12.**
3. Install the Center Stand Bumper into the Collector Pipe. **Figure 13.**
4. Apply a thin film of Sealant inside the two inlet tubes on the Collector Pipe.
5. Apply anti seize compound on the threads of the Lambda Sensor. Install the Lambda Sensor into the Collector Pipe. Do not twist the wires to the Lambda Sensor. Do not damage the Lambda Sensor. **Figure 14.**
6. Install the Collector Pipe onto the Head Pipes. **Figure 15.**
7. Place Spring Covers onto two Retaining Springs. **Figure 16.**
8. Secure the Collector Pipe to the Head Pipes with the Retainer Springs (Spring Puller).



Figure 11



Figure 12



Figure 13

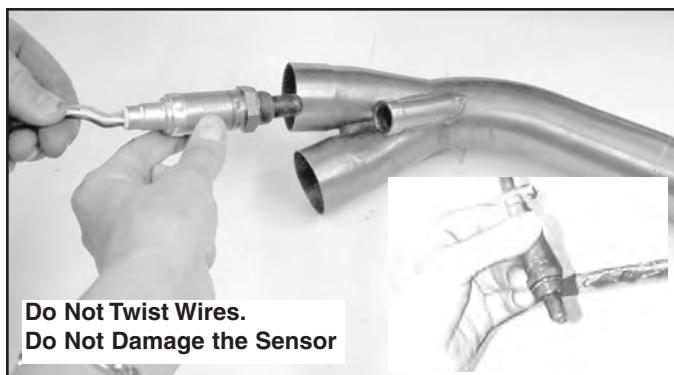


Figure 14



Figure 15

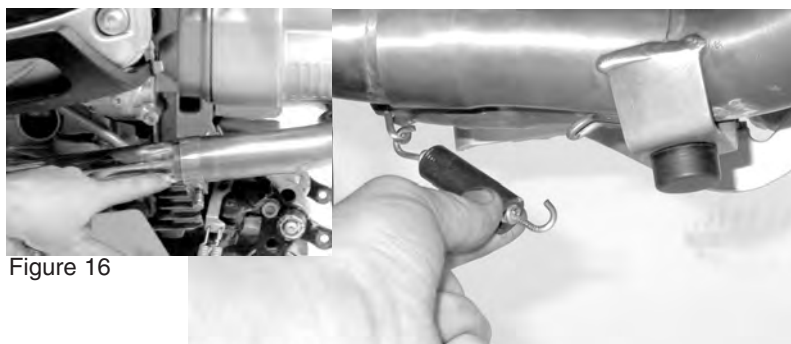


Figure 16

INSTALLATION CONTINUED

9. Route the Lambda sensor wires the same as original, reconnect the sensor plug. Secure the wires to the right frame rail with Cable Ties. **Figure 17.**

10. Apply a thin film of Sealant to the inside and outside of the inlet tube on the Silencer. **Figure 18.**

11. Position the Silencer into the end of the Collector Pipe. **Figure 19.**

12. Secure the Silencer to the Collector Pipe with a covered Retainer Spring (Spring Puller) **Figure 20.**

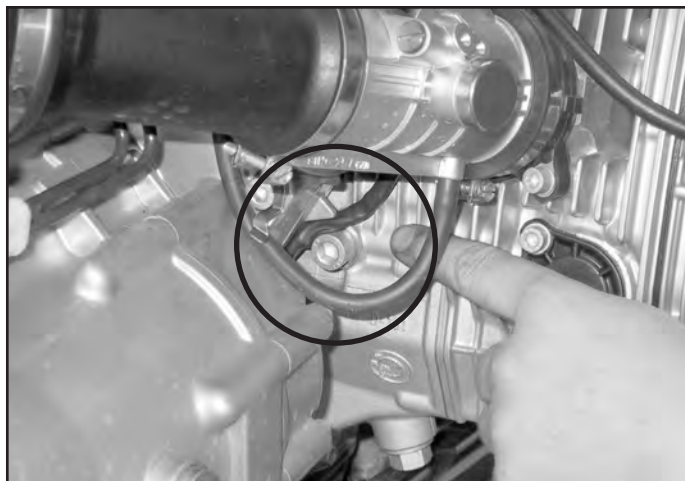


Figure 17

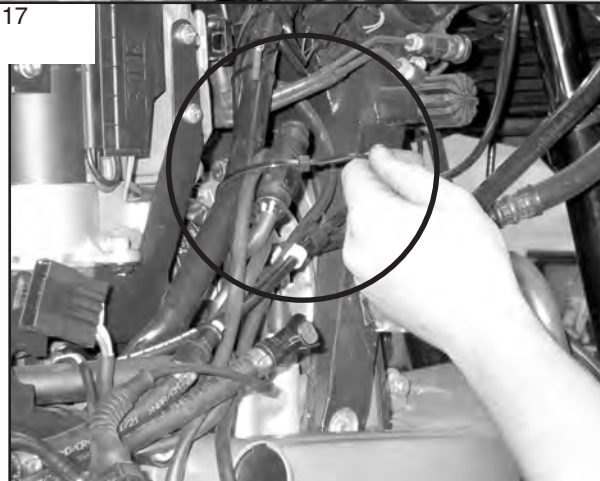


Figure 18

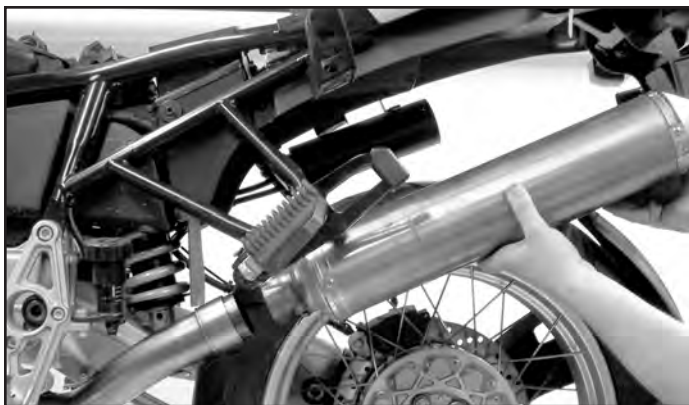


Figure 19

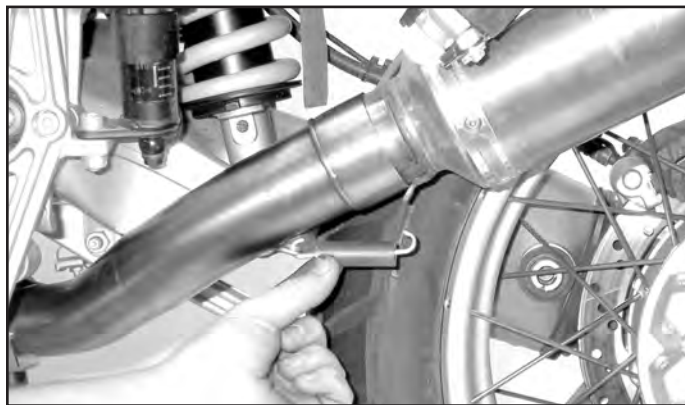


Figure 20

INSTALLATION CONTINUED

13. Attach the Hanger Bracket to the motorcycle in the same position as the original hanger using the M8 x 20 Screw and a Flat Washer. **Figure 21.**

14. Install the Rubber Strip into the inside of the Hanger Clamp. **Figure 22.**

15. Wrap the Hanger Clamp around the Silencer and attach it to the Hanger Bracket. From the outside, the assembly sequence for the fasteners is M8 x 25 Screw, Flat Washer, Clamp End Cover and both leaves of the Hanger Clamp, the Hanger Bracket, Flat Washer, and the Nut on the tire side of the Hanger Bracket. **Figure 23.**

16. Tighten the Pipe Clamps to 14 ft/lbs. **Figure 23A.**

17. Tighten the Screws at the Hanger Bracket to 14 ft./lbs. **Figure 24.**

18. Start motorcycle and check for exhaust leaks. Repair any exhaust leaks before riding.

19. Reassemble all parts to motorcycle. Tighten all fasteners to manufacturer's specifications.

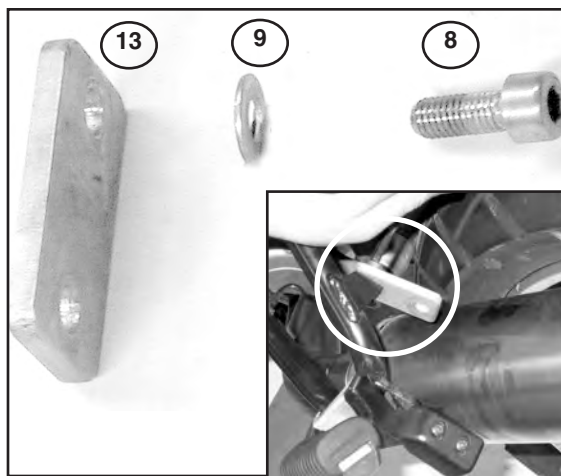


Figure 21



Figure 22

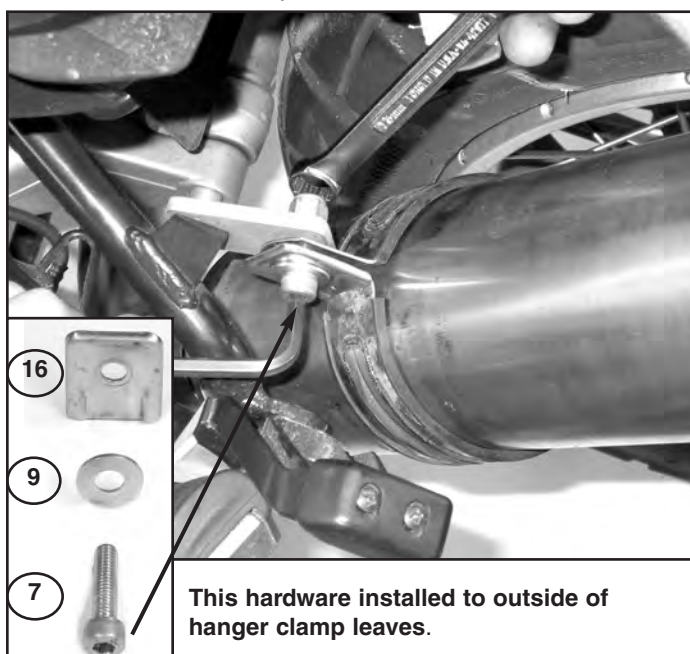


Figure 23



Figure 23A



Figure 24

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 10-11841-000 for complete Instructions.