

PARTS LIST

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2	Muffler Set	1
3	Clamp	1
4	Screw, M6 x 12	1
5	Rubber Bushings	2
6	Warranty Card	1



Hex Key Wrench, 3mm
Hex Key Wrench, 4mm
Hex Key Wrench, 5mm
Deep Socket, 12mm and Wrench
Plastic "Dead Blow" Hammer
Wrench, 22mm
Silicone Spray
Anti-Seize Compound

NOTE: Warranty Card, item 6 must be completed and mailed back to National Cycle, Inc.

ADDITIONAL PARTS REQUIRED

Exhaust Gaskets, BMW PN 18-12-1-342-969 2

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

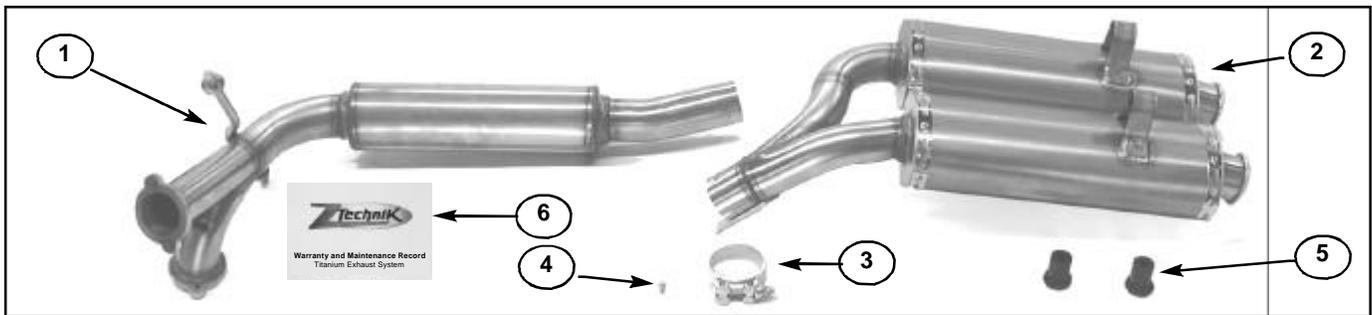


Figure 1

PREPARATION

1. Complete and return Warranty Card, item 6.
2. Position the motorcycle securely on its side stand or a work stand.
3. Remove the license plate.
4. Remove the light for the license plate from the rear fender extension (Hex Key Wrench, 3mm).
5. Remove the rear fender extension (hex Key wrench, 5mm). The wires for the license light will come out of the fender extension.
6. Remove the screws that connect the head pipes to the catalytic converter box below the transmission and in front of the brake and shifter pedals (hex key wrench, 5mm).
7. Slide the rear portion of the exhaust system rearward. The "dead blow" hammer will help this process. Note: some machines may require removal of the taillight from the motorcycle in order to clear the mufflers as they slide off their mounting pins.
8. When the system is free of its mounting locations, let the system rest on the rear tire.
9. Pull the license wires from between the mufflers.
10. Disconnect the Lambda Sensor from the catalytic converter box (wrench, 22mm).
11. Remove the system from the motorcycle.

INSTALLATION

1. Place the clamp on the muffler inlet tube so the tightening nut is up and facing the center of the motorcycle. Figure 2.

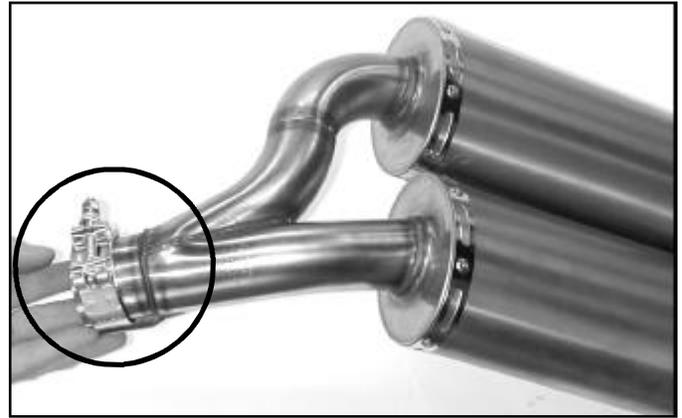


Figure 2

2. Slip the outlet of the collector pipe into the inlet tube of the muffler. Figure 3.



3. Align the welded nut on the collector pipe to the strap on the muffler inlet and start the M6 x 12 screw into the nut. **Do Not Tighten.** This will maintain alignment. Figure 3.

Do Not Tighten

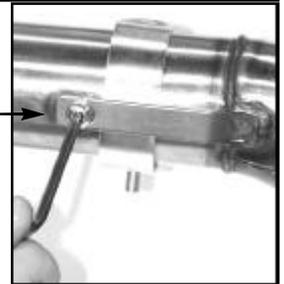


Figure 3

4. Remove the rubber bushings from the sides of the catalytic converter box. Spray the bushings with silicone, inside and out and install them onto the rods projecting from the collector pipe. Figure 4.

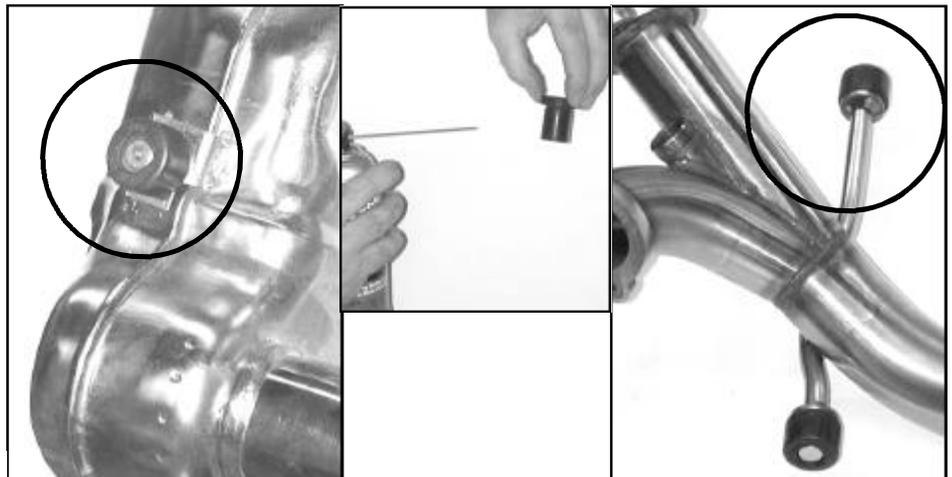


Figure 4

5. Spray the Rubber Bushings supplied in this kit with silicone, inside and out, and insert into the hangers on the mufflers from the front. Figure 5.



Figure 5

6. Position the Exhaust System so it rests on the rear tire. Figure 6.



Figure 6

7. Apply anti seize compound on the threads of the Lambda Sensor. Figure 7.

8. Wind up the Lambda Sensor cable so it unwinds while threading the Sensor in place.

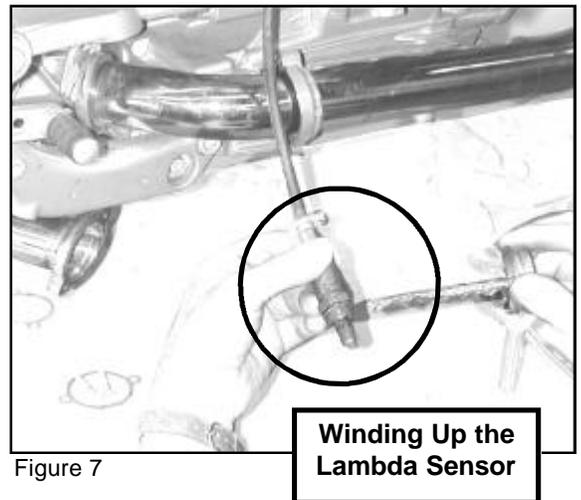


Figure 7

Winding Up the
Lambda Sensor

9. Thread the Sensor into its port in the Collector pipe and firmly tighten the Sensor. Figure 8.



Figure 8

10. Route the wires for the license light between the mufflers and through the large hole in the plate below the mufflers. Figure 9.



Figure 9

11. Carefully position the Exhaust System so the rubber bushings locate on their mounts; two under the seat and two on the frame below the swingarm pivot. Figure 10.

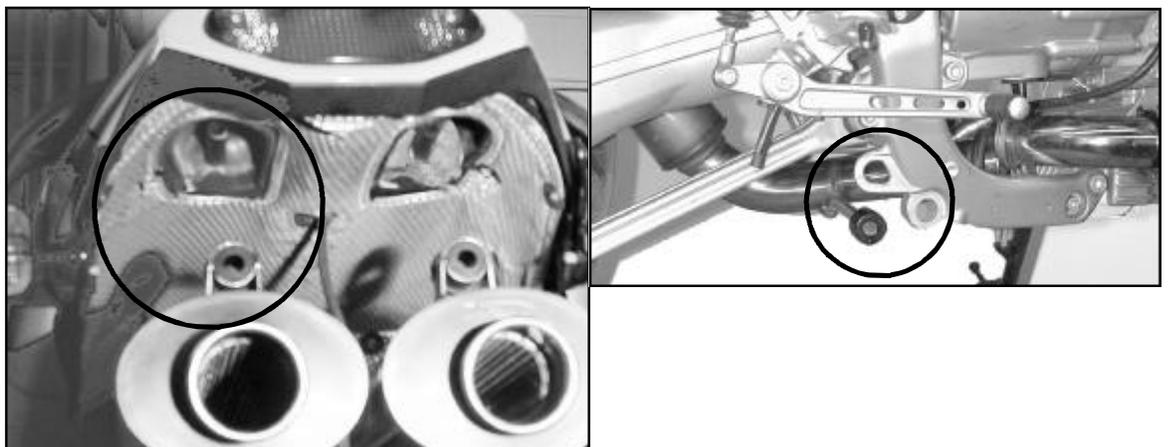


Figure 10

12. Push the Exhaust System fully forward onto the mounts. Figure 11.

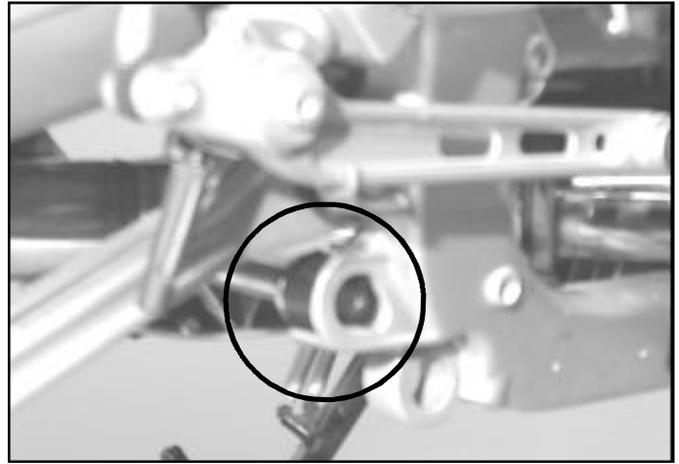


Figure 11

13. Put anti-seize compound on the screws that connect the head pipes to the collector. Figure 12.

14. Locate the **new** gaskets between the head pipe and collector and start the screws, **do not tighten yet**. Figure 12.

15. When all four collector to head pipe screws are started, with the gaskets in place, tighten the screws to 5 ft/lbs (7Nm).

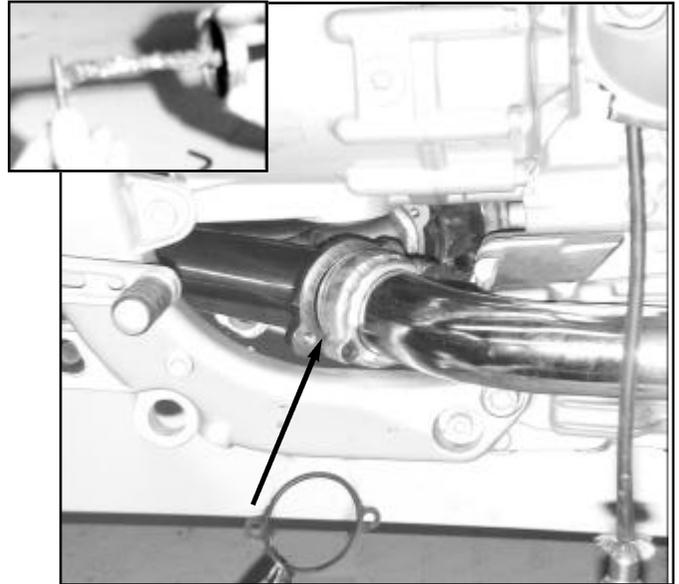


Figure 12

16. Rotate the clamp on the muffler inlet pipe so the tightening screw is away from the tire and firmly tighten the screw (socket, 12mm and wrench). Figure 13.

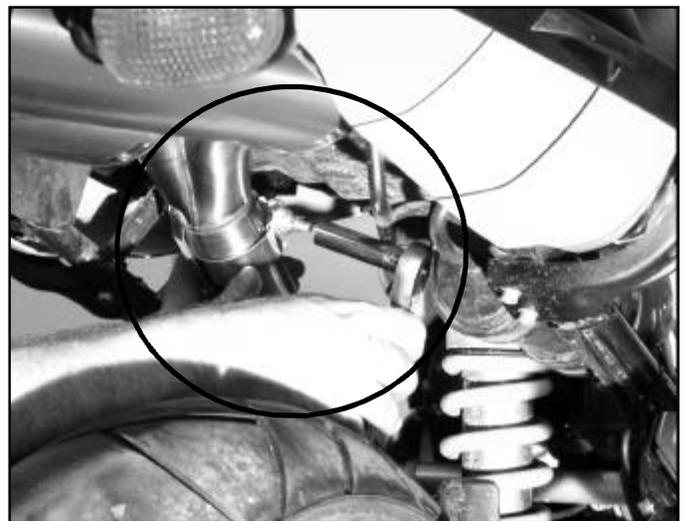


Figure 13

17. Firmly tighten the screw through the strap that connects the collector pipe to the muffler inlet pipe (hex key wrench, 4mm). Figure 14.

18. Start the motorcycle and check for exhaust leaks, correct as needed.

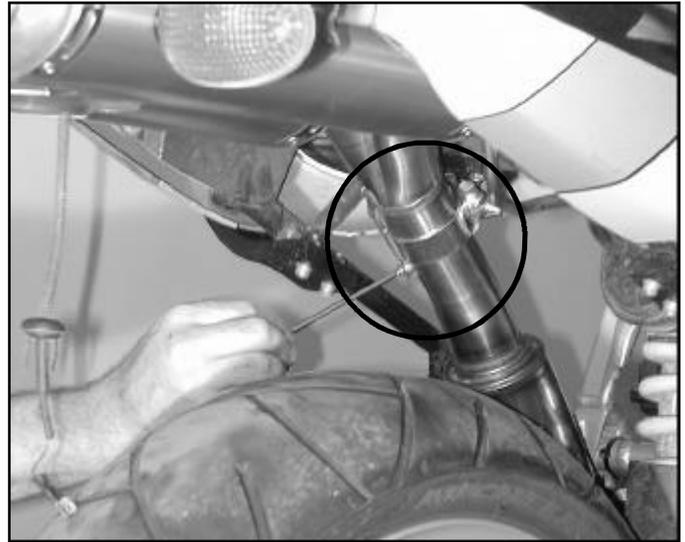


Figure 14

19. Reinstall the rear fender extension. Figure 15.

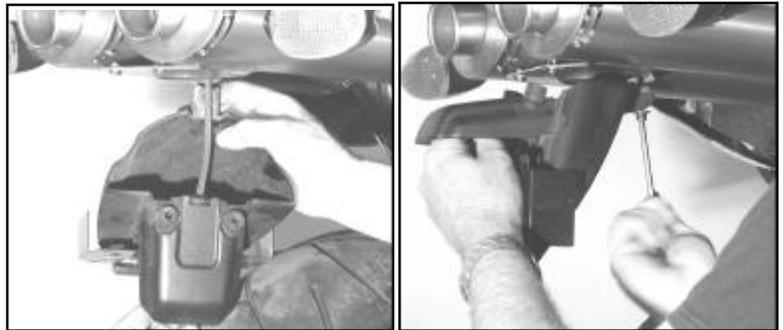


Figure 15

20. Reinstall the license light. Figure 16.

21. Reinstall the license plate.

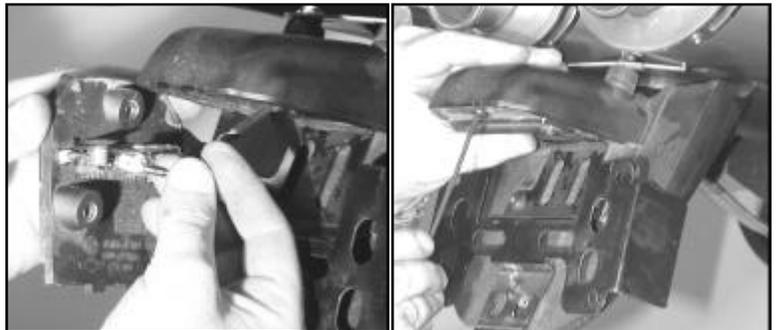


Figure 16

MAINTENANCE

Repack the mufflers at 6000 mile (10,000 km) intervals. The muffler repack kit is Z-Technik #Z4001-001. 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.