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## 2007-08 Kawasaki ZX6-R

V.A.L.E.™ Full Exhaust System with M-5 Canister  
Part # 005-1730119V / 005-1730120V



### Parts List

Qty.	Description	Part Number
1	Kawasaki ZX6 Muffler Canister M-5	005-173-807M
1	Kawasaki ZX6 Slip-on Tube	005-17304S
1	Header Kit	005-17301H
1	HARDWARE KIT	005-173-3C
1	Kawasaki ZX6 License Plate Bracket	005-17304B
1	Kawasaki ZX6 Muffler Hanger Bracket (Set)	005-173-13
1	Kawasaki ZX6 OEM Pipe Guard Hanger	005-173-21
1	Kawasaki ZX6 Rear Tail Light	005-17304LK
1	Mini Cateye Marker Lights	005-88T2
1	Oval Clamps Halves (Set)	005-5C-6A
2	Parallel Wire 2-18 AWG (20")	005-PW218
1	6 3/4" Rubber Edge Trim	005-LB090
2	8x20mm Flange Bolt	005-FB820
2	8mm Flange Nut	005-FN8
1	6x25mm Flange Bolt	005-FB625
1	6mm Nylock Nut	005-NN6
4	16-14 AWG Butt Splice	005-B51614
4	Blue Scotchlock	005-BS
2	4" x 5/8" Zip Tie	005-ZT458B
2	Zip Tie Mount	005-ZTM4
1	X-ring	005-7-2-2
1	64mm Barrel Clamp	005-27-64MSH
1	63mm Barrel Clamp	005-27-63MSH
4	6x14mm Socket Head Cap Screws	005-SH614
4	6mm Split Lock Washer	005-WL6
1	5mm Long Handle Ball Hex Key	005-9-18610
1	High Temp Gasket Maker	031-P22072
1	TBR Sticker Kit	015-10212

### IMPORTANT - PLEASE READ CAREFULLY

We recommend that this performance part be installed by a qualified motorcycle technician. If you have any doubts as to your ability to install this performance part, please consult with your local motorcycle dealer. Read all instructions first before starting installation. Make sure the motorcycle and exhaust system are completely cool before starting the installation. Also, make sure the bike is secure on a centerstand or ideally a service lift during installation. Be sure to save all stock components for possible use later.

### Installation Instructions

1. Make sure the bike is completely cool before starting the installation. Make sure the bike is secure on a centerstand or ideally a service lift.

2. Remove left and right side panels.



3. Remove main and passenger seat assembly.



4. Remove rear cowling.



5. Unplug rear fender wiring.



6. Disconnect exhaust valve servo cables. Hold servo wheel when removing to keep internal gears intact, gears are plastic and break easily.



7. Remove muffler assembly and rear fender covers.



8. Remove exhaust mid-pipe cover.



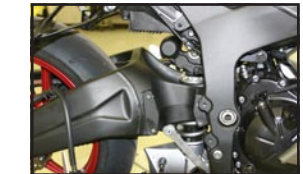
9. Remove lower fairing.



10. Remove right side footpeg assembly and swingarm cover. A heat gun may help remove the swingarm cover bolts to loosen the OEM threadlock.



11. Remove mid-pipe section and OEM gasket.



12. Loosely attach 2 part mid-pipe tube together using the supplied barrel clamp. Make sure to install X-ring before joining the 2 part tubes as show.



13. Install new mid-pipe section and attach using the OEM hardware.

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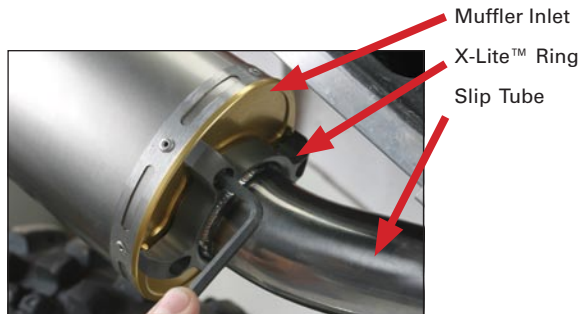
- 14. Install the LED Lightbar to the plate bracket, passing the wires through the hole. Install the rubber strip between the muffler and plate bracket after the lightbar is attached.



- 15. Assemble the plate bracket and muffler mount as shown. Use the 8x20mm flange bolts and nuts to attach the bracket to the muffler clamps.



- 16. Loosely attach the muffler to the motorcycle using the OEM hardware.
- 17. Use the 6x14mm Socket Head Cap Screws and split lock washers to loosely join the s-bend to muffler. Do not tighten yet.



V.A.L.E.™ Assembly Detail

- 18. Align muffler and check for clearance on all the areas of the exhaust, 1/4" is minimum. Then tighten the muffler mounting bolts and brackets and mid-pipe joint barrel clamp.

- 19. Tighten the 4 6x14mm socket head cap screws or V.A.L.E.™ assembly and mid-pipe hardware. Also tighten the mid-pipe/header joint clamp.

- 20. Re-check for clearance and be sure that there is at least 1/4" away from all plastics.

- 21. Attach muffler covers and on the right side front, use the supplied 6x25 flange bolt.

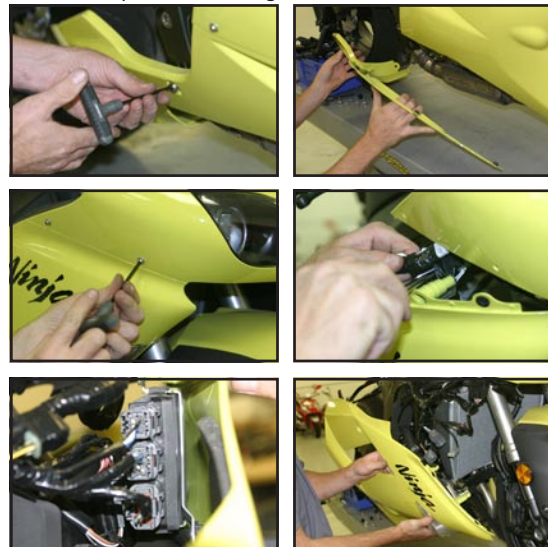


- 22. Attach the side panel bracket to the lower extruded portion of thread from the 6x25 flange bolt after installed. Use the 6mm lock washer to secure.

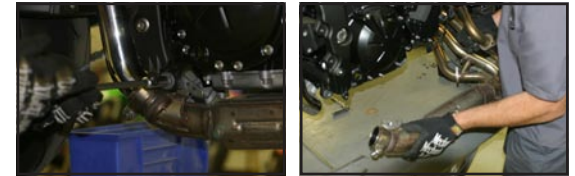


23.

- 24. Remove left and right fairings. Disconnect wires and other components making note of how to re-install.



- 25. Remove stock header assembly.



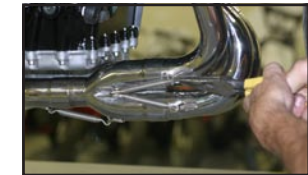
- 26. Install TBR headers using the OEM exhaust gaskets. Install 4,3,2, and 1 in that order. #1 being the furthest left cylinder when sitting on the motorcycle.



- 27. Install collectors left and right using a small amount of supplied high temp sealant at tube joints.



- 28. Install merge collector and connect it from header to mid-pipe section using a small amount of high temp sealant. Install springs.



- 29. Attach header assembly with TBR slip-on using the supplied 63mm barrel clamp  
\*The lower header mount is not used with the TBR full system.

- 30. Re-install exhaust pipe covers, foot peg assembly and lower fairing.

- 31. Attach turn signals to rear fender bracket and extend turn signal wires with the supplied wire and splice connectors.

- 32. Plug the supplied wire harness in the tail lights and light bolts.

(Continued from page 2)

### Installation Instructions

- Securely tape wiring together and away from exhaust. Run along inside of rear fender cover on the left side and plug into main wire harness. The turn signals will need to use the scotchlock if you do not want to cut off the OEM turn signal wire plugs from the stock muffler assembly. Use the zip tie tabs and ties provided.



- Re-install rear cowling and seats.
- Install all body work and check for clearance. Make adjustments if necessary.
- Double check your work to ensure everything is tight and away from plastics. Make sure all lights function properly.



- Before you run the bike, clean off all fingerprints and dirt, as any oily residue will etch the metal and become somewhat permanent when the system gets hot. Run the bike and enjoy. It is normal for some white smoke to appear the first time you start the bike. This is packing/manufacturing oil from inside the pipe burning off. Check for gaps or leaks. If you find a leak, a little high temperature silicon sealant should fix it. After 50 to 100 miles, recheck all fasteners for tightness.

### Care/Cleaning & Warranty

#### Care & Cleaning

Keep system free of dirt and moisture. Store in a cool, dry place. Make sure vehicle is completely cool before maintenance.

**Stainless Header System:** Polished stainless steel pipes will turn a light golden hue after a few heat cycles, this is a normal characteristic of high quality stainless steel. Clean using a mild water based spray cleaner. Always apply cleaner or polish with a soft, clean cloth.

**Titanium Header System:** Polished titanium pipes will experience color shift ranging from deep blue/purple through amber after a few heat cycles. This is a normal characteristic of high quality titanium. Clean using a mild water based spray cleaner. Always apply cleaner or polish with a soft, clean cloth.

**Polished Aluminum Canisters:** Use an aluminum or mag wheel polish to restore the bright finish to factory spec.

**Brushed Aluminum Canisters:** Clean using a mild water based spray cleaner. Always apply cleaner or polish with a soft, clean cloth.

**Carbon Fiber Canisters:** Clean using a mild water based spray cleaner. Always apply cleaner or polish with a soft, clean cloth. Always make sure the fiberglass packing inside is in good condition and not burned out, as exhaust heat inside an empty canister will deteriorate the carbon fiber sleeve. TBR sells repack kits (Road - #005-10038, Offroad - #005-10038MX) that include everything you need to easily do it yourself.

**Titanium Mufflers:** For cleaning use a mild water based spray cleaner. Always apply cleaner or polish with a soft, clean cloth. Always make sure the fiberglass packing inside is in good condition and not burned out, as exhaust heat inside an empty canister will deteriorate the carbon fiber sleeve. TBR sells repack kits (Road - #005-10038, Offroad - #005-10038MX) that include everything you need to easily do it yourself.

Repack all road canisters every 3,000 miles. Part #005-10038

Repack all offroad canisters after every 10 hours of use. Part #005-10038MX

**NEVER** dyno test your bike with carbon fiber or titanium canisters installed - the intense heat and lack of cooling air can quickly burn through the canister material. Two Brothers Racing does not provide a warranty for burned canisters.

Two Brothers Racing products are intended for closed course competition purposes only, and therefore are sold "as is" without warranty. Two Brothers Racing specifically disclaims any warranties of merchantability or fitness for a particular purpose and disclaims all responsibility for consequential and incidental damages or any other losses arising from the use of these products or parts.

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