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## 2003-06 Kawasaki KFX400 2003-07 Suzuki Z400 QuadSport

V.A.L.E.™ Slip-on Exhaust System with M-7 Canister  
Part # 005-1090406



### Parts List



Qty.	Description	Part Number
1	Muffler Canister M-7 Aluminum	005-109-206
1	Slip-On Tube	005-10904N
1	HARDWARE KIT	005-109-3
1	V.A.L.E.™ X-lite Ring	005-7-2-2
1	Barrel Clamp	005-27-57MSH
1	8x45 Socket Flat Head Cap Screw	005-SHF845
1	8x60 Socket Flat Head Cap Screw	005-SHF860
2	8mm Aluminum Washers (Gold)	005-WA8G
1	18mm Spacer (Gold)	005-S-18SG
1	34mm Spacer (Gold)	005-S-34SG
1	#165 Main Jet	005-109-MJ165
1	5mm Long Handle Ball end hex key	005-9-18610
4	M6 Split Lock Washer	005-WL6
4	6x14mm Socket Head Cap Screw	005-SH614

### IMPORTANT - PLEASE READ CAREFULLY

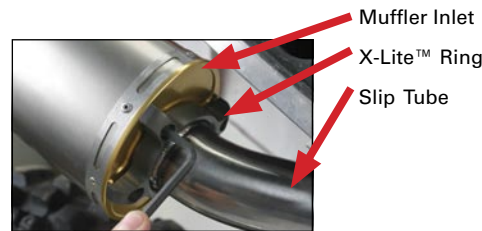
**We recommend that this performance part be installed by a qualified motorcycle technician. If you have any doubts as to your ability to install this performance part, please consult with your local motorcycle dealer. Read all instructions first before starting installation. Make sure the vehicle and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

### Warranty

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.

### Installation Instructions

1. Make sure the ATV is completely cool before starting the installation. Make sure the ATV is secure on a level surface and the wheels are chocked to prevent the ATV from rolling.
2. Remove the stock slip on (1 bolt at the top of the muffler, 1 bolt at the bottom of the muffler and 1 bolt at the header)
3. Assemble the V.A.L.E.™ unit by slipping the S-bend tube through the X-Lite™ ring. Use the 4 (four) 6 x 14mm socket head cap screws and split lock washers to loosely attach the X-Lite™ ring to muffler inlet. (See V.A.L.E.™ Assembly Detail below)



4. Install spacers in rubber mounts as shown.



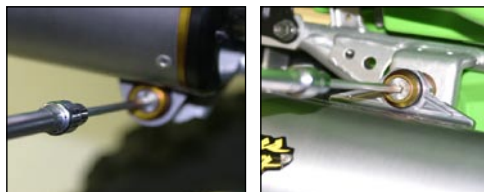
Insert 18mm Spacer in Upper Mount

Insert 34mm Spacer in Lower Mount

5. Install band clamp loosely on connector tube as shown.



6. Install entire assembly onto header gently turning it into position so that the rubber mount holes line up with the stock mounting holes on the frame.
7. Install and tighten the 8x60mm (bottom bolt) and the 8x45mm (upper bolt) and securely fasten the canister to the frame. Be sure to use threadlock on the threads.



8. Use the supplied threadlock. Tighten the 4 socket head cap screws on V.A.L.E.™ muffler joint in a cross-type pattern. Securely tighten.



9. Tighten the Band Clamp and check your work to be sure all hardware is securely tightened.
10. Install the new #165 main jet in the carburetor. Refer to your owner's/service manual for installation procedure. Keep the needle clip in the stock position. Remove airbox lid.
11. Before you run the ATV, 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 ATV and enjoy. It is normal for some white smoke to appear the first time you start the ATV. 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

#### 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.



Absolute Top Level™

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