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2008 Kawasaki KFX450R

V.A.L.E.™ Complete Exhaust System with M-7 Aluminum Canister
Part # 005-1660106V



Parts List

Qty.	Description	Part Number
1	Muffler Canister M-7 Aluminum	005-166-206M
1	Stainless Steel S-Bend Slip-On Tube	005-16601S
1	Stainless Steel Header	005-16601H
1	HARDWARE KIT	005-166-3C
1	5mm Long Handle Ball end hex key	005-9-18610
4	6x14mm Socket Head Cap Screw	005-SH614
4	6mm Lock Washer	005-WL6
2	TBR Script Logo Yellow Decal 4"	015-10208-A
1	USFS Approved Spark Arrestor (installed)	005-106S

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.

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 quad is completely cool before starting the installation. Make sure the quad is secure on a level surface and the wheels are chocked to prevent the quad from rolling.
2. Remove the bolts securing the OEM muffler to the frame.
3. Loosen the OEM clamp connecting the slip tube to the header. This clamp will not be re-used.
4. Carefully remove OEM muffler assembly from quad.
5. Remove the OEM head pipe and install the new TBR head pipe.
6. Use the 6 x 14mm bolts and split lock washers to loosely attach the X-Lite™ ring to muffler inlet . (See V.A.L.E. Assembly Detail below)
7. Double check to make sure that all hardware is securely tightened.
8. Before you run the quad, 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 quad and enjoy. It is normal for some white smoke to appear the first time you start the quad. 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.



V.A.L.E.™ Assembly Detail

7. Carefully slide TBR muffler assembly onto the OEM header making sure that the TBR slip-tube is fully inserted.
8. Attach muffler canister to frame using the OEM bolt. Leave loose for now.
9. Use the OEM bolt to secure the slip-tube to the frame and tighten.
10. Securely tighten the 4 (four) 6 x 14mm hex head bolts of the V.A.L.E. assembly when proper muffler alignment is reached.
11. Securely tighten the muffler bolt last.

Care & Cleaning

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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 at the first signs of packing material deterioration. 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.



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