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V.A.L.E.

2004-05 Kawasaki KX250F & 2004-06 Suzuki RMZ250

Complete Exhaust System with M-7 Canister
Part # 005-1200106V / 005-1200607V / 005-1200608V



Parts List

Qty.	Description	Part Number
1	Muffler Canister M-7	Varies
1	S-Bend for Complete	Varies
1	Header	Varies
1	HARDWARE KIT	005-120-3C
1	Side Panel Spacer	005-S-13
1	8x25mm Flange Bolt	005-FB825
1	6x25mm Flange Bolt	005-FB625
1	5mm Long Handle Ball End Hex Key	005-9-18610
4	6x14mm Socket Head Cap Screw	005-SH614
4	Split Lock Washer	005-WL6
2	TBR Script Logo Yellow Decal 4"	015-10208-A
1	Spark Arrestor (aluminum canister only)	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 bike is completely cool before starting the installation. Make sure the bike is secure on a centerstand or ideally a service lift.
2. Remove right side plastic.
3. Remove upper muffler mounting bolt.
4. Remove lower muffler mounting bolt & muffler clamp.
5. Remove muffler assembly.
6. Remove head pipe flange nuts.
7. Remove head pipe.
8. Install the new Two Brothers Racing head pipe making sure that the original copper gasket is between the cylinder and head pipe. Loosely install 2 (two) OEM head pipe nuts to hold header in place.
9. 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 to loosely attach the X-Lite™ ring to muffler inlet.
10. Slip S-bend tube of V.A.L.E.™ muffler assembly into head pipe. Apply threadlock to supplied 8x25mm upper muffler bolt and loosely secure lower bolt with original hardware.
11. Making sure that the V.A.L.E. assembly is oriented correctly, securely tighten lower muffler mounting bolt.
12. Securely tighten the 4 (four) 6mm x 14mm hex head bolts of the V.A.L.E. assembly. (See V.A.L.E.™ Assembly Detail)
13. Securely tighten the upper muffler mounting bolt.
14. Securely tighten the two header nuts.
15. Reinstall side panel with supplied spacer & bolt.
16. Double check to make sure that all hardware is securely tightened.
17. 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

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.

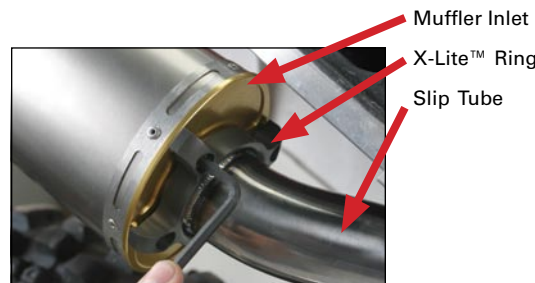
Brushed Aluminum Canisters: Clean using a mild water based spray cleaner. Always apply cleaner or polish with a soft, clean cloth.

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.



V.A.L.E.™ Assembly Detail



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**2004-05 Kawasaki KX250F &
2004-06 Suzuki RMZ250**
Complete Exhaust System with M-7 Canister



005-1200106V



Qty.	Description	Part Number
1	Muffler Canister M-7 Aluminum	005-120-206M
1	Stainless Steel S-Bend for Complete	005-12001SC
1	Stainless Steel Header	005-12001H
1	HARDWARE KIT	005-120-3C
1	Side Panel Spacer	005-S-13
1	8x25mm Flange Bolt	005-FB825
1	6x25mm Flange Bolt	005-FB625
1	5mm Long Handle Ball End Hex Key	005-9-18610
4	6x14mm Socket Head Cap Screw	005-SH614
4	Split Lock Washer	005-WL6
2	TBR Script Logo Yellow Decal 4"	015-10208-A
1	Spark Arrestor (aluminum canister only)	005-106S

005-1200107V



Qty.	Description	Part Number
1	Muffler Canister M-7 Carbon Fiber	005-120-207M
1	Stainless Steel S-Bend for Complete	005-12001SC
1	Stainless Steel Header	005-12001H
1	HARDWARE KIT	005-120-3C
1	Side Panel Spacer	005-S-13
1	8x25mm Flange Bolt	005-FB825
1	6x25mm Flange Bolt	005-FB625
1	5mm Long Handle Ball End Hex Key	005-9-18610
4	6x14mm Socket Head Cap Screw	005-SH614
4	Split Lock Washer	005-WL6
2	TBR Script Logo Yellow Decal 4"	015-10208-A

005-1200607V



Qty.	Description	Part Number
1	Muffler Canister M-7 Aluminum	005-120-207M
1	Stainless Steel S-Bend for Complete	005-12006SC
1	Stainless Steel Header	005-12001H
1	HARDWARE KIT	005-120-3C
1	Side Panel Spacer	005-S-13
1	8x25mm Flange Bolt	005-FB825
1	6x25mm Flange Bolt	005-FB625
1	5mm Long Handle Ball End Hex Key	005-9-18610
4	6x14mm Socket Head Cap Screw	005-SH614
4	Split Lock Washer	005-WL6
2	TBR Script Logo Yellow Decal 4"	015-10208-A

005-1200608V



Qty.	Description	Part Number
1	Muffler Canister M-7 Aluminum	005-120-208M
1	Stainless Steel S-Bend for Complete	005-12006SC
1	Stainless Steel Header	005-12001H
1	HARDWARE KIT	005-120-3C
1	Side Panel Spacer	005-S-13
1	8x25mm Flange Bolt	005-FB825
1	6x25mm Flange Bolt	005-FB625
1	5mm Long Handle Ball End Hex Key	005-9-18610
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