



401 South Grand Ave., Santa Ana, CA 92705
Tel: 714.550.6070 Fax: 714.550.9661 www.twobros.com



Kawasaki NINJA 650R (06-08)/ VERSYS (08)

Slip-on V.A.L.E.™ Exhaust System with M-7 Canister
Part # 005-1420406V / 005-1420407V / 005-1420408V



Parts List

Qty.	Description	Part Number
1	M-2 Muffler Canister	Varies
1	Stainless Steel Slip-On Tube	005-14201S
1	Muffler Clamp	Varies
1	HARDWARE KIT	005-142-3
1	X-Lite™ V.A.L.E.™ Retaining Ring	005-7-2-2
1	P1 PowerTip™ (Installed)	005-P1
1	8x16mm Flange Bolt	005-FB816
1	Barrel Clamp	005-27-59MSH
1	Billet Aluminum Muffler Mount	005-142-B
2	Billet Solid Mount Adaptors	005-142-S
4	6x14mm Socket Head Cap Screw	005-SH614
4	6mm Split Lock Washer	005-WL6
1	Support Bracket	005-142-B2
1	6x40mm All Thread Bolt	005-SH640
1	6mm Flange Nut	005-FN6
1	5mm Long Handle Ball end hex key	005-9-18610
1	T20 Torx Hex Key	005-9-15820
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

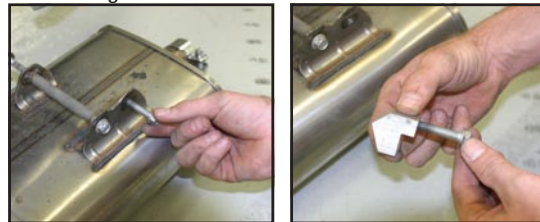
1. Make sure the bike is completely cool before starting the installation. Make sure the bike is secure on the sidestand or ideally a service lift.
2. Remove the right side lower fairing to expose the muffler assembly.
3. Remove the four fasteners on the right side cover.



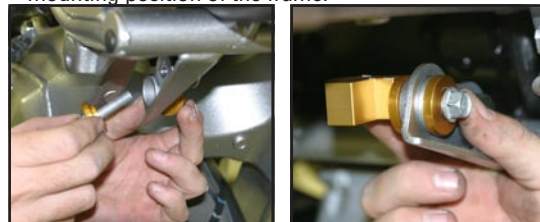
4. Loosen the muffler clamp attaching the OEM muffler to the head pipe.
5. Remove the two muffler mounting bolts and remove the OEM muffler. (If rear tire is too close you can loosen the head pipe at the the cylinder head or move the rear wheel back to remove the muffler assembly.)



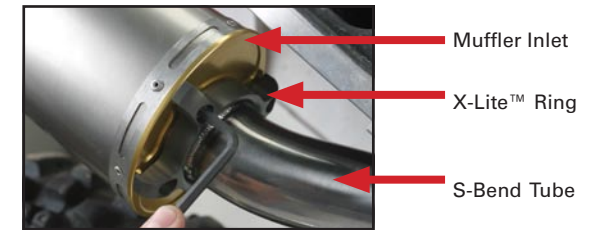
6. You will re-use the front muffler mount bolt from the stock mounting hardware.



7. Remove the rubber grommet and inserts from the frame where the stock muffler mounted. -You will use the two solid mount adaptors and OEM front bolt to mount the billet muffler mount in the rear mounting position of the frame.



8. Attach the V.A.L.E.™ unit keeping the assembly loose enough for slip-on tube rotation for adjustment later.

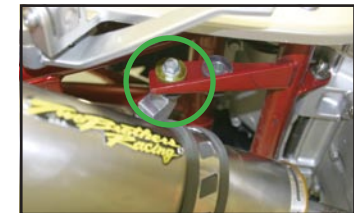


V.A.L.E.™ Assembly Detail

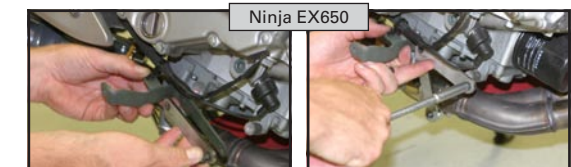
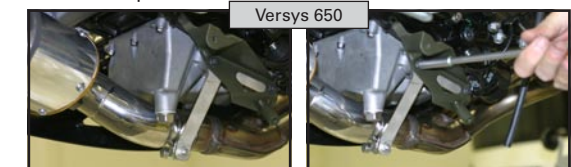
9. Remove STD bolt from provided barrel clamp and replace with longer 6x40mm socket head cap screw provided. Install on slip-on tube and position as shown. Leave loose for now.



10. Slide the (rubber-lined) muffler clamp over the muffler canister and attach to the billet mount bracket as shown on the angle side. Keep loose enough to slide the rubber lined clamp later.



11. Remove right side lower fairing mounting bracket and install supplied support bracket over (for Ninja EX650) or under for (Versys 650) and attach with original hardware. The lower support hole will go over bolt extension from barrel clamp.





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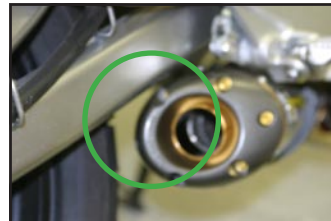
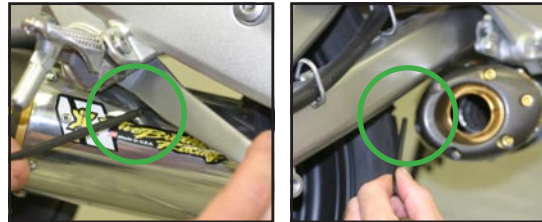
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Part # 005-1420406V / 005-1420407V / 005-1420408V



Installation Instructions

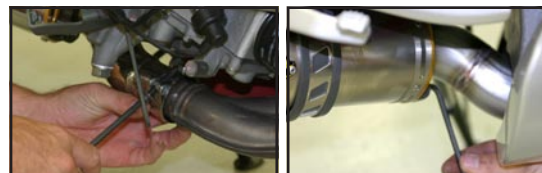
12. Make all adjustments of slip-on tube rotation and muffler rotation to make sure there is clearance between swingarm/tire and brake pedal when applied.



13. Tighten the four 6x14mm S.H.C.S. of the V.A.L.E.™ assembly in a cross pattern.



14. Tighten mounting hardware and clamp on canister then tighten the barrel clamp making sure the support bracket is protruding through the lower hole.



15. Use the supplied 6mm lock nut to fasten the support bracket to the engine.



16. Double check all of your work and tighten all hardware.
17. Re-install the lower fairing and side cover.
18. 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.

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.



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005-1420406V

005-1420407V

005-1420408V



Qty.	Description	Part Number
1	M-2 Muffler Canister	005-142-206V
1	Stainless Steel Slip-On Tube	005-14201S
1	Muffler Clamp	005-2C-113
1	HARDWARE KIT	005-142-3
1	X-Lite™ V.A.L.E.™ Retaining Ring	005-7-2-2
1	P1 PowerTip™ (Installed)	005-P1
1	8x16mm Flange Bolt	005-FB816
1	Barrel Clamp	005-27-59MSH
1	Billet Aluminum Muffler Mount	005-142-B
2	Billet Solid Mount Adapters	005-142-S
4	6x14mm Socket Head Cap Screw	005-SH614
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1	Support Bracket	005-142-B2
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1	5mm Long Handle Ball end hex key	005-9-18610
1	T20 Torx Hex Key	005-9-15820
1	TBR Sticker Kit	015-10212

Qty.	Description	Part Number
1	M-2 Muffler Canister	005-142-207V
1	Stainless Steel Slip-On Tube	005-14201S
1	Muffler Clamp	005-2C1-113
1	HARDWARE KIT	005-142-3
1	X-Lite™ V.A.L.E.™ Retaining Ring	005-7-2-2
1	P1 PowerTip™ (Installed)	005-P1
1	8x16mm Flange Bolt	005-FB816
1	Barrel Clamp	005-27-59MSH
1	Billet Aluminum Muffler Mount	005-142-B
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1	TBR Sticker Kit	015-10212

Qty.	Description	Part Number
1	M-2 Muffler Canister	005-142-208V
1	Stainless Steel Slip-On Tube	005-14201S
1	Muffler Clamp	005-2C2-113
1	HARDWARE KIT	005-142-3
1	X-Lite™ V.A.L.E.™ Retaining Ring	005-7-2-2
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