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## 2005-09 Honda CRF 450X

V.A.L.E.™ Complete Exhaust System with M-7 Aluminum Canister  
Part # 005-1330106V



### Parts List



Qty.	Description	Part Number
1	CRF450X Muffler Canister M-7 Aluminum	005-133-206M
1	CRF450X SS Slip-on Tube	005-13301S
1	CRF450X Header	005-13301H
1	HARDWARE KIT	005-133-3
1	8x25mm Flange Bolt	005-FB825
1	5mm Long Handle Ball end hex key	005-9-18610
4	6x14mm Socket Head Cap Screw	005-SH614
4	6mm Split Lock Washer	005-WL6
1	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.

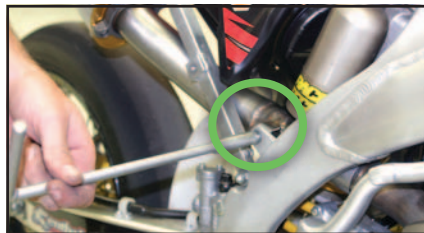
### Installation Instructions

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

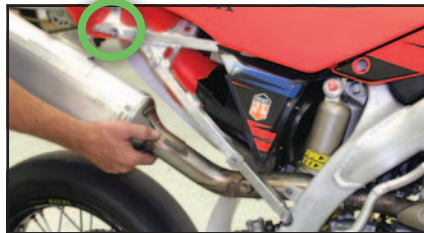
2. Remove right side rear plastic.



3. Remove lower mounting bolt.



4. Remove upper muffler mounting bolt and muffler assembly.



5. Remove the OEM headpipe.

6. Use the 4 (four) 6x14mm socket head cap screws and lock washers to loosely attach the X-Lite™ ring to muffler inlet.



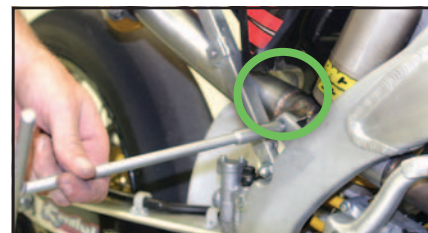
7. Attach the TBR headpipe and slip S-bend tube of V.A.L.E. muffler assembly into head pipe.



8. Attach muffler mounting bracket to mounting tab on subframe using supplied 8x25mm bolt. Leave loose for now.



9. Using OEM bolt, secure muffler assembly mid-pipe bolt. Tighten securely.



10. Securely tighten the 4 (four) 6x14mm hex head bolts of the V.A.L.E. assembly.





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CRF 450X**

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STAINLESS

005-1330106V



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1	8x25mm Flange Bolt	005-FB825
1	5mm Long Handle Ball end hex key	005-9-18610
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4	6mm Split Lock Washer	005-WL6
1	Spark Arrestor (Installed)	005-106S

**Installation Instructions**

- Securely tighten upper muffler mounting bolt.
- Reinstall side panel with original hardware.
- Double check to make sure that all hardware is tightened
- 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**

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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 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.