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## 2004-07 Yamaha RHINO 660

V.A.L.E.™ Slip-On Exhaust System with M-7 Canister  
Part # 005-152046V



### Parts List

Qty.	Description	Part Number
1	Muffler Canister M-7	005-152-206M
1	Slip Tube	005-15201S
2	Heavy Duty Muffler Clamp	005-2C4
1	HARDWARE KIT	005-152-3
1	Billet Bolt-on Muffler Mount (Front)	005-152-21
1	Billet Bolt-on Muffler Mount (Back)	005-152-21B
2	Billet Bolt-on Muffler Mount "U" Bracket	005-152-21U
1	Barrel Clamp 58mm	005-27-58MSH
4	8x40mm Socket Head Cap Screws	005-SH840
6	M8 Split High Collar Lock Washers	005-WL8
4	M6 Split High Collar Washers	005-WL6
2	8mm Large Flat Washers	005-WO8
2	8x20mm Socket Head Cap Screws	005-SH820
2	Spark Arrester Screen (Installed)	005-106S
4	6x14mm Socket Head Cap Screws	005-SH614
1	5mm Long Handle Ball End Hex Key	005-9-18610
1	Permatex High Strength Threadlock	031-P09179
2	TBR Logo Decal 4"	015-10208-A

### IMPORTANT - PLEASE READ CAREFULLY

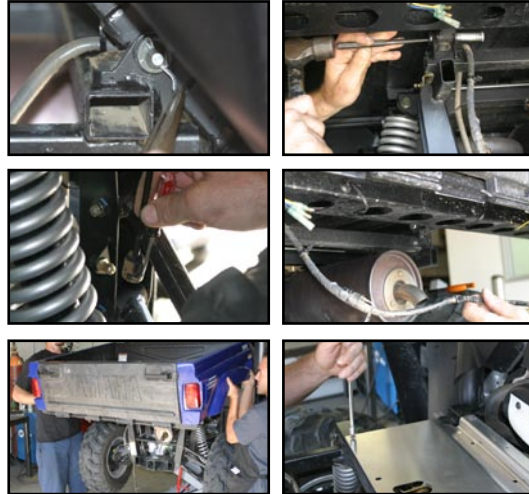
**We recommend that this performance part be installed by a qualified motorcycle technician. If you have any doubts as to your ability to install this performance part, please consult with your local motorcycle dealer. Read all instructions first before starting installation. Make sure the motorcycle 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 ATV is completely cool before starting the installation. Make sure the ATV is secure and the wheels are chocked to prevent rolling during installation.
2. Remove the bed from the rear section of the Rhino. First remove the pins in the hinges, unhook the hydraulic shocks, then disconnect the electronics. Remove the aluminum pan from the top of the exhaust.



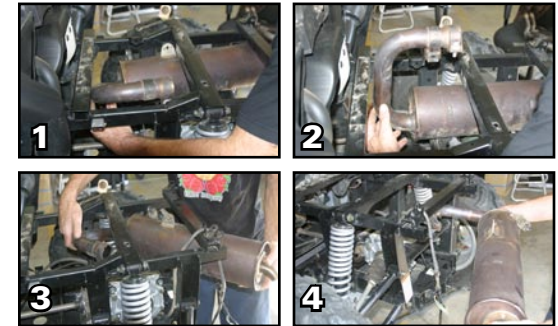
3. Remove the stock headpipe. This step will make it much easier to remove the stock muffler.



4. Remove the mounting bolts for stock muffler and S-bend.

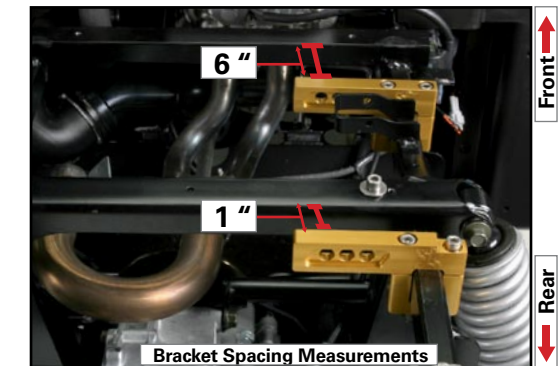
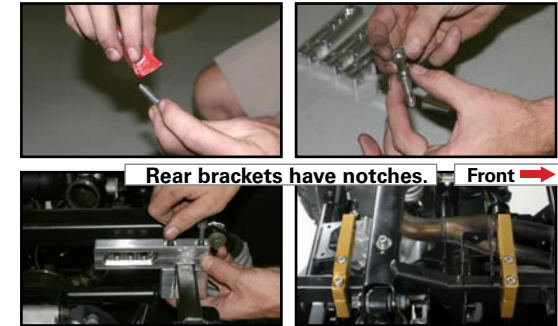


5. You will need to twist and rotate the stock muffler assembly in order to remove it from the chassis.



6. Reinstall the stock headpipe and tighten.

7. Install mounting brackets to frame as shown. The rear bracket has a notch for bed hydraulic shock clearance. Use threadlock and lock washers on all hardware. Because of the differences with every Rhino, this bracket may fit tighter on some frame rails due to paint and/or heat from production welds and twisting. This is normal.



NOTE: Instructions continued on Page 2...





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## 2004-07 Yamaha RHINO 660

V.A.L.E.™ Slip-On Exhaust System with M-7 Canister  
Part # 005-1520406V

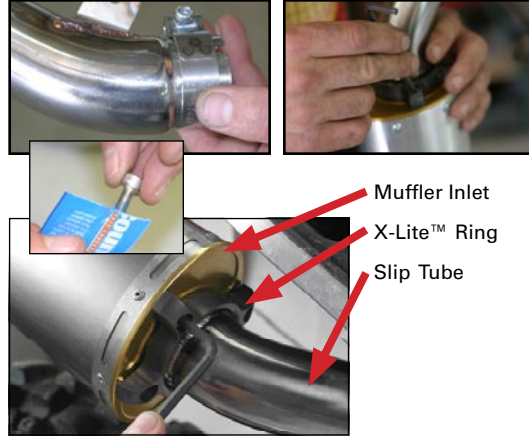
005-1520406V



Qty.	Description	Part Number
1	Muffer Canister M-7	005-152-206M
1	Slip Tube	005-15201S
2	Heavy Duty Muffer Clamp	005-2C4
1	HARDWARE KIT	005-152-3
1	Billet Bolt-on Muffer Mount (Front)	005-152-21
1	Billet Bolt-on Muffer Mount (Back)	005-152-21B
2	Billet Bolt-on Muffer Mount "U" Bracket	005-152-21U
1	Barrel Clamp 58mm	005-27-58MSH
4	8x40mm Socket Head Cap Screws	005-SH840
6	M8 Split High Collar Lock Washers	005-WL8
4	M6 Split High Collar Washers	005-WL6
2	8mm Large Flat Washers	005-WO8
2	8x20mm Socket Head Cap Screws	005-SH820
2	Spark Arrester Screen (Installed)	005-106S
4	6x14mm Socket Head Cap Screws	005-SH614
1	5mm Long Handle Ball End Hex Key	005-9-18610
1	Permatex High Strength Threadlock	031-P09179
2	TBR Logo Decal 4"	015-10208-A

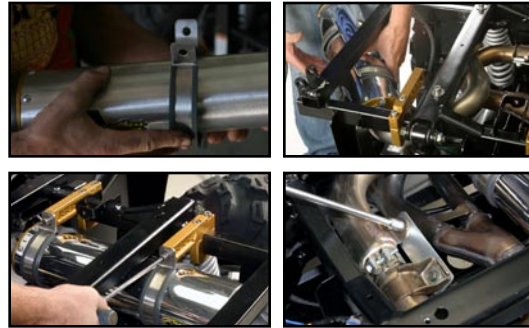
### Installation Instructions

- Next, slide the supplied barrel clamp over the s-bend tube. Apply a small amount of threadlock to the 6x16mm screws and loosely attach the V.A.L.E.™ ring to the TBR muffler as shown. Do not tighten yet.

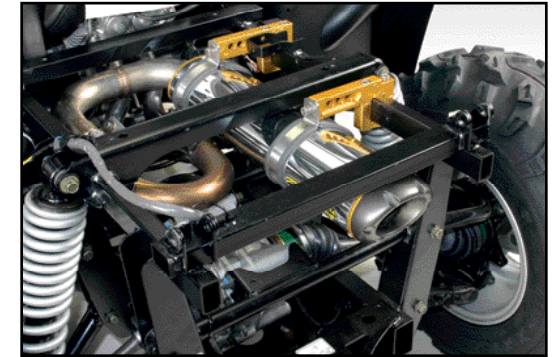


V.A.L.E.™ Assembly Detail

- Slide the supplied muffer clamp over the muffer and loosely attach the muffer to the muffer mounts as shown. Be sure to remount the stock mounting plate as shown in the photo.



- Make sure the muffer is properly aligned. Once you are satisfied with the alignment, securely tighten the 4 6x16mm V.A.L.E.™ screws, the muffer mounting bolts, and finally the barrel clamp.
- Re-install the heatshield, the bed and hydrolic shock. Check to make sure that the shocks clear the brackets.
- 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 1 to 2 hours of riding recheck all fasteners for tightness.



### Maintenance

- Check your hardware every 10 hours of operation, including the bolts on the muffer assembly.
- Packing should be replaced every 15 hours of operation.
- Quiet inserts are also available. P1 Powertip (005-P1), P1-R Powertip (005-P5) and P4 Powertip (005-P4)
- In order to maintain optimal performance, it is recommended that this spark arrester be cleaned after every 30 hours of use. (Our U.S. Forestry Service approved Spark Arrester is included with all M-7 V.A.L.E. stainless/aluminum exhaust systems. These tips prevent broadcasting sparks with no appreciable loss of horsepower. Additionally this tip prevents the introduction of foreign matter into the exhaust system.)

### 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.

**Polished Aluminum Canisters:** Use an aluminum or mag wheel polish to restore the bright finish to factory spec.

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.