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## 2007-09 Yamaha YZ450F

V.A.L.E.™ Complete Exhaust System with M-7 Canister  
Part # 005-1650106V / 005-1650107V



### Parts List

Qty.	Description	Part Number
1	YZ450F Muffler Canister M-7	Varies
1	YZ450F S-Bend for Complete System	Varies
1	YZ450F Header	Varies
1	HARDWARE KIT	005-165-3C
2	X-Ring (half)	005-7-2-3
1	8x30mm Flange Bolt	005-FB830
1	8x12mm Flange Bolt	005-FB812-10
1	5mm Long Handle Ball end hex key	005-9-18610
4	6x14mm Socket Head Cap Screw	005-SH614
4	M6 Split Lock Washer	005-WL6
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.**

### 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.
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 and split lock washers 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. Use supplied 8 x 30mm flange bolt to loosely attach upper muffler mount. Use the supplied 8 x 16mm flange bolt for the lower S-bend bolt.
11. Making sure that the V.A.L.E.™ assembly is oriented correctly, securely tighten upper muffler mounting bolt.
12. Securely tighten the 4 (four) 6mm x 14mm hex head bolts of the V.A.L.E.™ assembly.
13. Securely tighten the lower muffler mounting bolt.
14. Securely tighten the two header nuts.
15. Insert OEM side panel bumper from OEM side panel, and reinstall side panel bumper holder on muffler.
16. Double check to make sure that all hardware is 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.



Muffler Inlet

X-Lite™ Ring

S-Bend Tube

V.A.L.E.™ Assembly Detail



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**2007-09 Yamaha  
YZ450F**

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Part # 005-1650106V / 005-1650107V

**M-7 Series**  
3.75" x 4.85" OVAL



005-1650106V



Qty.	Description	Part Number
1	YZ450F Muffler Canister M-7 Aluminum	005-165-206M
1	YZ450F Stainless Steel S-Bend Tube	005-16501S
1	YZ450F Stainless Steel Header	005-16501H
1	HARDWARE KIT	005-165-3C
2	X-Ring (half)	005-7-2-3
1	8x12mm Flange Bolt	005-FB812-10
1	8x30mm Flange Bolt	005-FB830
1	5mm Long Handle Ball end hex key	005-9-18610
4	6x14mm Socket Head Cap Screw	005-SH614
1	M6 Split Lock Washer	005-WL6
1	TBR Sticker Kit	015-10212
1	Spark Arrestor (Installed)	005-106S

005-1650107V



Qty.	Description	Part Number
1	YZ450F Muffler Canister M-7 Carbon Fiber	005-165-207M
1	YZ450F Stainless Steel S-Bend Tube	005-16501S
1	YZ450F Stainless Steel Header	005-16501H
1	HARDWARE KIT	005-165-3C
2	X-Ring (half)	005-7-2-3
1	8x12mm Flange Bolt	005-FB812-10
1	8x30mm Flange Bolt	005-FB830
1	5mm Long Handle Ball end hex key	005-9-18610
4	6x14mm Socket Head Cap Screw	005-SH614
1	M6 Split Lock Washer	005-WL6
1	TBR Sticker Kit	015-10212