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## 2003-09 Suzuki SV650

M-2 & M-5 V.A.L.E.™ Slip-On Exhaust System

Part # 005-1010406V / 005-1010407V / 005-1010408V / 005-1010419V / 005-1010420V



### Parts List



Qty.	Description	Part Number
1	Muffler Canister	Varies
1	Stainless Steel Slip Tube	005-10104NV
1	Muffler Clamp	Varies
1	HARDWARE KIT	005-101-3
2	X-Ring (half)	005-7-2-3
4	6x14mm Socket Head Cap Screws	005-SH614
1	Barrel Clamp	005-27-66MSH
1	5mm Long Handle Ball end hex key	005-9-18610
1	Permatex Black Gasket Maker	031-P22072
4	6mm Split Lock Washer	005-WL6

### IMPORTANT - PLEASE READ CAREFULLY

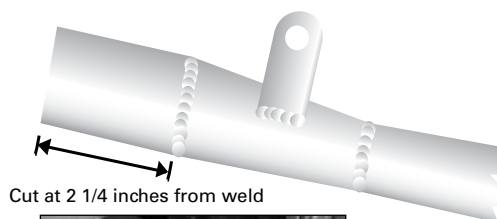
*We recommend that this performance part be installed by a qualified motorcycle technician. If you have any doubts as to your ability to install this performance part, please consult with your local motorcycle dealer. Read all instructions first before starting installation. Make sure the motorcycle 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 a centerstand or ideally a service lift.
2. Loosen the OEM canister hardware at the passenger footpeg bracket. **Do not remove yet.**

For 2007+ models, a heat shield needs to be removed. The bolts are spot welded on the threads so you must turn until the bolts break to remove.

3. With a reciprocating saw or a simple hacksaw, cut the stock header pipe perpendicularly, 2 1/4 inches from the rear weld on the pipe. See photo and diagram. Remove stock muffler. Remove any burrs from the cut edge with a rasp or file.



Cut at 2 1/4 inches from weld



OEM Exhaust after cutting

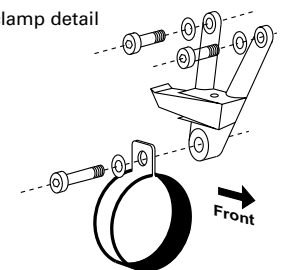
4. Attach the V.A.L.E.™ X-Lite™ retaining ring to the muffler canister: Use the 6x14mm socket head cap screws and 6mm split lock washer to loosely attach the retaining ring to the muffler canister.



V.A.L.E.™ Assembly Detail

5. Place a bead of hi-temp sealant on the outside edge of the header that goes into the slip tube. Using the supplied barrel clamp install the slip tube onto the end of the header. Leave loose for now. Wipe off the excess sealant that will squeeze out.
6. Carefully slide the canister clamp over the canister. (Note: The stainless steel canister clamp and the name badge on the canister come from the factory with a clear plastic protective film. Please remove this film before operation.) You may need to twist and turn the slip tube a little to get it in the right place. Locate both tabs of the canister clamp on the outside of the passenger footpeg. Use the stock hardware to secure it. Leave loose for now.

Canister clamp detail



7. Straighten and align the muffler until you are satisfied with the fit on the bike.
8. Once the muffler is properly aligned, tighten the muffler mounting bolt, followed by the 6x14 socket head cap screws, and lastly the bottom barrel clamp.



**NOTE:** Tighten the 6x14mm screws in an X-pattern in order to achieve a proper fit.

9. 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. Also, remove any plastic film from the name badge(s) and canister clamp(s). 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.



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## Care & Cleaning / Warranty

### Care & Cleaning

Keep system free of dirt and moisture. Store in a cool, dry place. For cleaning use a mild spray cleaner. Always apply cleaner or polish with a soft, clean cloth.

**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.

**Carbon Fiber Mufflers:** 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 (TBR part # 005-10038) that include new rivets and repack material as well as a drill bit (#30), making it easy to do yourself. Also, NEVER dyno test your bike with carbon fiber mufflers installed - the intense heat and lack of cooling air can quickly cause the CF material to burn. Two Brothers Racing does not provide a warranty for burned carbon fiber.

**Aluminum Mufflers:** Use an aluminum or mag wheel polish such as Mother's to restore the bright finish to factory spec.

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.

### 005-1010406V



Qty.	Description	Part Number
1	Muffler Canister M-2 Polished Aluminum	005-206M
1	Stainless Steel Slip Tube	005-10104NV
1	Muffler Clamp	005-2C
1	HARDWARE KIT	005-101-3
2	X-Ring (half)	005-7-2-3
4	6x14mm Socket Head Cap Screws	005-SH614
1	Barrel Clamp	005-27-66MSH
1	5mm Long Handle Ball end hex key	005-9-18610
1	Permatex Black Gasket Maker	031-P22072
4	6mm Split Lock Washer	005-WL6

### 005-1010407V



Qty.	Description	Part Number
1	Muffler Canister M-2 Carbon Fiber	005-207M
1	Stainless Steel Slip Tube	005-10104NV
1	Muffler Clamp	005-2C1
1	HARDWARE KIT	005-101-3
2	X-Ring (half)	005-7-2-3
4	6x14mm Socket Head Cap Screws	005-SH614
1	Barrel Clamp	005-27-66MSH
1	5mm Long Handle Ball end hex key	005-9-18610
1	Permatex Black Gasket Maker	031-P22072
4	6mm Split Lock Washer	005-WL6

### 005-1010408V



Qty.	Description	Part Number
1	Muffler Canister M-2 Titanium	005-208M
1	Stainless Steel Slip Tube	005-10104NV
1	Muffler Clamp	005-2C2
1	HARDWARE KIT	005-101-3
2	X-Ring (half)	005-7-2-3
4	6x14mm Socket Head Cap Screws	005-SH614
1	Barrel Clamp	005-27-66MSH
1	5mm Long Handle Ball end hex key	005-9-18610
1	Permatex Black Gasket Maker	031-P22072
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005-1010419V

005-1010420V



Qty.	Description	Part Number
1	Muffler Canister M-5 Carbon Fiber	005-807M
1	Stainless Steel Slip Tube	005-10104NV
1	Muffler Clamp	005-5C
1	HARDWARE KIT	005-101-3
2	X-Ring (half)	005-7-2-3
4	6x14mm Socket Head Cap Screws	005-SH614
1	Barrel Clamp	005-27-66MSH
1	5mm Long Handle Ball end hex key	005-9-18610
1	Permatex Black Gasket Maker	031-P22072
4	6mm Split Lock Washer	005-WL6



Qty.	Description	Part Number
1	Muffler Canister M-5 Carbon Fiber	005-808M
1	Stainless Steel Slip Tube	005-10104NV
1	Muffler Clamp	005-5C1
1	HARDWARE KIT	005-101-3
2	X-Ring (half)	005-7-2-3
4	6x14mm Socket Head Cap Screws	005-SH614
1	Barrel Clamp	005-27-66MSH
1	5mm Long Handle Ball end hex key	005-9-18610
1	Permatex Black Gasket Maker	031-P22072
4	6mm Split Lock Washer	005-WL6