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2009-10 Suzuki GSX-R1000

V.A.L.E.™ Full Titanium Exhaust System with M-2 Exhaust Canister
Part # 005-2420606V / 005-2420607V / 005-2420608V



Parts List

Qty.	Description	Part Number
1	M-2 Muffler Canister	005-146-207
1	Header Kit Ti	005-24206HK
1	Muffler Clamp	Varies
1	HARDWARE KIT	005-24206-3C
2	X-Ring (half)	005-7-2-3
1	Hanger Bracket	005-147-19-3
1	Servo Stop	005-125-05-01
1	8x35mm Socket Head Cap Screw	005-SH835
1	8x20mm Socket Head Cap Screw	005-SH820
4	6x14mm Socket Head Cap Screw	005-SH614
4	6mm Split Washer	005-WL6
3	8mm Flange Nut	005-FN8
6	62mm Spring Hooks	005-S62
1	5mm Long Handle Ball End Hex Key	005-9-18610
1	T20 Torx Screw Hex Key	005-9-15820
1	Permatex Ultra Black Gasket Maker	005-P22072
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.

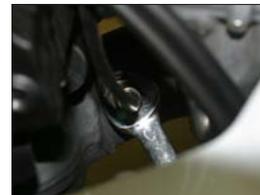
Installation Instructions

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

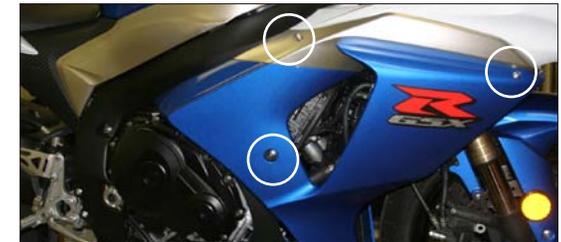
2. Remove left and right mufflers.



3. Remove OEM plenum box and O2 Sensor.



4. Remove left and right fairings.



5. Remove radiator mounting bolts and let radiator sit against front fender.



6. Remove servo cables and pulley wheel from servo motor on left side of motorcycle. **You must use a suitable tool to hold pulley wheel in place while removing retaining bolt.**



7. Install supplied servo stop bracket as shown.



8. Remove OEM header assembly.



Instructions (continued)

9. Remove lower right side foot rest mounting bolt and replace with the supplied 8x35mm bolt.



10. Install TBR header 1-4, 1 being the left and 4 being the right if sitting on the bike. Keep loose for now (make sure to use the OEM copper gasket between cylinder head and exhaust header).



11. Install collector assembly. Use gasket maker on all slip-fit joints.



12. Install springs.



13. Install supplied muffler mounting bracket to previously installed longer bolt behind right side foot rest. The bracket goes on the inside and is held in place with the supplied nut.



14. Attach TBR muffler to supplied slip-on tube using the 2 part X-ring and 6x14mm socket head cap screws and lock washers provided, leave loose for now.



15. Install rubber lined muffler clamp over TBR muffler and slide muffler assembly over TBR header making sure the supplied barrel clamp is on the slip-tube where the exhaust joint will be.



16. Locate the muffler mounting bracket previously installed and rotate slip-tube and muffler to desired location, secure to muffler mounting bracket (There is a lot of adjustment because the bracket / clamp / muffler and slip-tube may all be moved individually so keep in mind the muffler should be as close to the swingarm as possible without touching leaving a minimum of 1/4" clearance).



17. Attach slip-tube to OEM bracket using OEM bolt and supplied nut.



18. Tighten header flange bolts and re-install radiator bolts.

19. Tighten X-Ring bolts.

20. Tighten mounting bracket nut and bolt.



21. Install O2 sensor to slip-on tube.



22. Re-install fairings.

23. Remove all inner sleeves from OEM rubber grommets where OEM mufflers and catalyst were mounted.



24. Check for clearance and adjust if needed.

25. Double check your work to ensure everything is tight and properly installed.

26. 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.



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Part # 005-2420606V / 005-2420607V / 005-2420608V

Care & Cleaning / Warranty

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.

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.

005-2420606V



Qty.	Description	Part Number
1	M-2 Muffler Canister	005-146-206
1	Header KitTi	005-24206HK
1	Muffler Clamp	005-2C
1	HARDWARE KIT	005-24206-3C
2	X-Ring (half)	005-7-2-3
1	Hanger Bracket	005-147-19-3
1	Servo Stop	005-125-05-01
1	8x35mm Socket Head Cap Screw	005-SH835
1	8x20mm Socket Head Cap Screw	005-SH820
4	6x14mm Socket Head Cap Screw	005-SH614
4	6mm Split Washer	005-WL6
3	8mm Flange Nut	005-FN8
6	62mm Spring Hooks	005-S62
1	5mm Long Handle Ball End Hex Key	005-9-18610
1	T20Torx Screw Hex Key	005-9-15820
1	Permatex Ultra Black Gasket Maker	005-P22072
1	TBR Sticker Kit	015-10212

005-2420607V



Qty.	Description	Part Number
1	M-2 Muffler Canister	005-146-207
1	Header KitTi	005-24206HK
1	Muffler Clamp	005-2C1
1	HARDWARE KIT	005-24206-3C
2	X-Ring (half)	005-7-2-3
1	Hanger Bracket	005-147-19-3
1	Servo Stop	005-125-05-01
1	8x35mm Socket Head Cap Screw	005-SH835
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1	TBR Sticker Kit	015-10212

005-2420608V



Qty.	Description	Part Number
1	M-2 Muffler Canister	005-146-208
1	Header KitTi	005-24206HK
1	Muffler Clamp	005-2C2
1	HARDWARE KIT	005-24206-3C
2	X-Ring (half)	005-7-2-3
1	Hanger Bracket	005-147-19-3
1	Servo Stop	005-125-05-01
1	8x35mm Socket Head Cap Screw	005-SH835
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