



## **Suzuki GSX-R600/750/1000 ALUMINUM MUFFLER INSTRUCTIONS**

Thank you for purchasing the FMF Powercore S muffler for your **GSX-R600/750/1000**. We have spent countless hours of design work and testing to insure you receive the highest quality product on the market today.

Your Powercore S muffler has been developed using the latest design, testing and manufacturing technologies. It is manufactured from an extruded oval aluminum canister, uses our hi-flo square core and has a CNC machined aluminum mounting flange. The Powercore S muffler is designed to broaden your existing powerband and give you an all around power increase.

**Check out our website [www.fmfracing.com](http://www.fmfracing.com) for images, dyno charts and tons more info**

*If you have any suggestions send them to [suggestions@fmfracing.com](mailto:suggestions@fmfracing.com)*

**Please read all instructions thoroughly before installation.** Failure to follow all installation instructions completely will void any FMF warranty implied or otherwise. FMF Racing will not be held responsible for problems derived from improper installation and/or improper usage.

Before you begin installing this product, be sure you are wearing **eye protection** and gloves. You should have a complete understanding of how to remove and replace your stock exhaust. If you do not, you should have it installed by a professional mechanic. Keep all OEM parts when removing your stock exhaust, as some parts may be utilized with the FMF exhaust depending on your particular application.

### **PARTS SUPPLIED**

(1) Medium Strap Bracket  
(1) Rubber Bracket Sleeve

(4) 8mm X 20mm Flange Bolts

### **TOOLS REQUIRED**

12mm Wrench  
Contact Cleaner

Hi-temp Silicon  
WD-40®

### **REMOVAL**

*OEM = Original Equipment Manufacturer*

- 1] Loosen and remove the four (4) flange nuts from the front of the muffler using a 12mm wrench.
- 2] While supporting the muffler, loosen and remove the rear OEM muffler bolt & nut using the appropriate wrenches. Keep for later use.
- 3] Gently slide the muffler rearward to release it from the header. Spray WD-40® on the joint if it is difficult to remove.
- 4] There is a gasket where the muffler flange meets the header. You can re-use this gasket only if it is in good condition and doesn't have any damage. We recommend replacing it with a new one to insure that it seals and fits correctly. The Suzuki OEM part is available from your local dealer.

### **PRE-INSTALLATION**

- 5] Install the rubber sleeve onto the strap bracket so that the rubber is facing inward. Make sure the outer lip is over the bracket edge fully. No rubber should be in the area where the bracket tabs pinch together.
- 6] Use contact cleaner to clean the area where the muffler bolts to the header.

## INSTALLATION

- 7] Lightly coat the OEM gasket with a bead of high temp. silicon and insert it in the machined groove on the FMF muffler flange.
- 8] With clean hands, gently slip the FMF muffler onto the header. The FMF logo should be at 3 o'clock when looking from the rear for proper positioning.
- 9] While supporting the muffler, install and tighten the four (4) 8mm x 20mm bolts to connect the muffler to the header. Tighten them to the OEM specified torque specs
- 10] Slide the rubber sleeved strap bracket carefully over the muffler and position it to the rear upper mounting point. Be careful not to scratch the canister and make sure the "inside" sticker on the bracket is towards the subframe. The strap bracket goes on the outside of the mount.
- 11] Pinch the strap bracket tabs together and install using the existing OEM 8mm nut and bolt. Do not fully tighten at this time.
- 12] Slowly tighten all mounting fasteners and clamps to OEM specified torque specs, starting from the front and working back. Make sure the header and muffler are in neutral positions and not binding.
- 13] Inspect the complete exhaust to make sure the exhaust system is not in contact with the frame, swingarm, engine or any cables, hoses or wiring. The exhaust system should only be in contact with the exhaust port and mounting points. Confirm all controls operate in accordance with the manufacturer's specifications.

## POST-INSTALLATION

- 14] Before starting the engine, clean the entire exhaust to remove all dirt and oil residue. This will prevent staining of the metal when it heats up. Windex® works great on the muffler canister.
- 15] Start the engine and bring it up to operating temperature. Check for exhaust leaks.
- 16] Let engine cool completely and re-torque all mounting hardware to the manufacturers specifications.
- 17] After 50-75 miles of use, re-torque all mounting hardware.

## MAINTENANCE

To clean your FMF muffler, simply use soap and water when it becomes dirty. Windex® works great on the muffler canister to prevent streaking and uneven discoloration. Let the exhaust system cool before cleaning. Do not spray cold water onto a hot exhaust. Dry completely to prevent streaking.

We recommend re-packing your Powercore S muffler every 10K-15K miles depending on the type of riding you're doing. This will maintain peak performance and keep the sound level from becoming too loud and/or raspy. If the sound level changes significantly or your muffler canister shows signs of discoloration, this is a sign to inspect the packing material and replace if needed. We recommend using our NEW Premier multi-layer packing material.

To re-pack the muffler, remove the four (4) allen screws from the front of the muffler using a 4mm allen wrench. Do not remove the rear endcap. Gently slide out the front end cap from the muffler canister. Be careful not to damage the muffler. Unwrap the packing from the core and discard. Wrap the core with new packing and secure with a strip of masking tape. Before re-installing the inner core assembly, apply a thin layer of hi-temp silicon on the front end cap where the canister slips over. Slip inner core assembly into canister making sure the perforated core fully seats in the rear endcap. Re-install the allen screws until snug or tighten 1/4 turn after the screw makes contact with the canister.

### Disclaimer:

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