**Slip-On Muffler**

**Installation Instructions**

Thank you for choosing FMF as your performance aftermarket exhaust. We have spent countless hours of R&D and testing to ensure you receive the highest quality product on the market today.

All FMF products are developed using the most current technology available for design and manufacturing. Every exhaust is made 100% at the Flying Machine Factory in Southern California. We use only the highest quality American materials for function and durability.

Since 1973, FMF has been bringing you the very best in bolt on performance. Our products are specifically engineered to broaden your existing powerband and give you an all around power increase with substantial weight savings. Bolt on FMF and **FEEL THE POWER!**

Check out our website at www.fmfracing.com for more information.

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**Please read all instructions thoroughly before installation. Failure to follow all installation instructions will void any warranty implied or otherwise. FMF Racing is not responsible for problems due to improper installation and/or improper use.**

Before you begin installing this product, we recommend wearing safety glasses and mechanics gloves. You must know how to remove and replace your stock exhaust in order to install this FMF product otherwise have it installed by a professional mechanic. Keep all stock parts from your existing system as some components may be necessary to install your new FMF exhaust depending on the application.

**Parts Supplied**

| (1) muffler               | 045243-44 |
| (2) strap bracket        | 940333    |
| (2) 6x45mm bolt          | 920160    |
| (2) 6mm nut              | 920140    |
| (2) 8x20mm bolt          | 920192    |
| (2) 8mm nut              | 920142    |
| (1) front muffler hanger | 940904    |
| (1) rear muffler hanger  | 841074    |

**Tools Required**

| 10 (2), 12, 13mm wrenches |
| spring puller             |
| small pick                |

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**1.** Make sure engine is completely cool prior to installation and the vehicle is in a stable position.

**2.** Remove driver and passenger seats.

**3.** Remove right side panel to gain access to muffler springs.

**4.** With a pick, carefully remove the front two (2) clips holding the heatshield halves together. Bend the outer shield slightly to gain access to the muffler springs. Save clips for later use.

**5.** Using a spring puller, remove the four (4) springs connecting the muffler midpipe to the header. Save for later use.

**6.** Carefully remove the muffler by sliding it toward the rear of the machine until the pins on the muffler are clear of their mounting holes.

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**Pre - Installation**

**7.** Remove the heatshield from the stock muffler and install onto your FMF muffler using the stock hardware.

**8.** Your new FMF muffler mounts differently than the stock exhaust. In the supplied hardware, locate the triangular shaped front muffler hanger, (2) 6mm nuts and (2) 45mm bolts. The hanger mounts at the (2) open holes near the front of the grab bar on the right side (fig. 1). Install hardware but it should only be finger tight at this time.

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**Installation**

**9.** Slide the FMF muffler onto the header.

**10.** Slide a supplied strap bracket over the front of the muffler so the "inside" sticker is facing inward. Position the strap to the front muffler hanger with the tabs of the strap on the outside of the hanger.

**11.** Secure the strap to the hanger using a supplied 8mm nut and 8x20mm bolt. Hardware should only be finger tight at this time.
Installation-cont.

12. Using a spring puller, install the four (4) springs removed in step #5. Bend back the outer heatshield and install the clips removed in step #4.

13. Locate the rear muffler hanger in the supplied hardware. Insert the pin through the stock rear muffler support with the pin pointing toward the front of the vehicle. Slide the remaining supplied strap bracket over the rear of the muffler with the “inside” sticker facing inward. Align the tabs of the strap to the hanger with the tabs on the inside of the hanger.

14. Use a supplied 8mm nut and 8x20mm bolt to secure the rear strap bracket to the rear hanger. Do not fully tighten at this time.

15. Make sure the muffler is in a neutral position and not binding. Slowly tighten all mounting fasteners starting at the front muffler mount and finishing at the rearmost muffler mount. Tighten 6mm fasteners to 7 ft-lb and 8mm fasteners to 18 ft-lb.

16. Inspect the complete exhaust to make sure there is no contact with the frame, shock spring, engine, body panels 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 manufacturer’s specifications.

17. Reinstall all body parts and panels to manufacturer’s specifications.

Post - Installation

18. All FMF exhaust products are designed to use stock fuel settings unless otherwise noted. There are too many variables to provide precise specifications; mainly altitude and temperature. If you are not capable of tuning the fuel settings yourself, please find a mechanic in your area.

19. Start the engine and bring to operating temperature. Check for exhaust leaks.

20. Allow the engine to cool completely and torque all mounting hardware to manufacturer’s specifications.

Maintenance

To clean your FMF muffler, allow to cool and use mild soap and water. Do not spray water onto a hot exhaust. Mild soap and water is recommended on the muffler canister to reduce streaking and uneven discoloration. Dry completely with a soft cloth.

We recommend repacking your FMF muffler after every 20-30 hours of normal use when used with proper fuel settings (more frequently for less than optimal fuel settings). This will maintain peak performance and keep that race tone. Note the PowerLine series muffler is a mechanical design and does not require repacking. Water will ruin packing. Cover the exhaust outlet when washing your vehicle (also recommended for PowerLine mufflers to prevent water from entering the cylinder). Repack your muffler if water enters the chamber and saturates the packing. We offer various repack kits to choose from. If the muffler has a spark arrestor screen, we recommend cleaning it gently with a wire brush after every 30 hours of use.

To repack the muffler, remove the allen screws from the front of the muffler. Do not remove the rear end cap. Grasping the midpipe, work the front end cap out of the canister. Use care not to damage or distort the shape of the canister or end cap. You may need a rubber or plastic mallet to lightly tap the front end cap out of the canister. Unwrap the packing from the core and discard. Clean the core with a wire brush then wrap with new packing and secure with a strip of 1/2” masking tape near each end of the core. Do not pack too tightly as this will hamper performance and increase sound level. Before reinstalling the inner core assembly, apply a thin bead of high temp silicone on the front endcap where it makes contact with the canister. Slide the inner core assembly into the canister making sure the perforated core is fully seated into the rear end cap. Wipe off any excess silicone. Reinstall the allen screws and tighten 1/4 turn after the screw contacts the canister. Allow sufficient time for the silicone to cure before starting the engine.

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LIMITED WARRANTY: All merchandise manufactured by FMF Racing has a warranty against manufacturing defects for a period of one (1) year from the date of invoice. Warranty is limited to the repair or replacement of defective products. There is no warranty for normal wear and tear, any type of crash damage or for product failure due to improper muffler or packing maintenance. FMF Racing reserves the right to repair, replace or issue an FMF credit for defective product at its discretion. Credits are valid for a period of one (1) year from issuance. No credit will be issued for labor or other costs incurred beyond the value of the original product. Product returned as a warranty after having been used, if found to be defective, is not valued at the full purchase price. A depreciated value will be estimated for used product. Product accepted as a warranty claim and repaired or replaced will be returned via UPS-ground freight no charge. Warranty excludes product that has been modified or where the product was improperly installed, abnormally used or mishandled. This limited warranty is in lieu of all other guarantees or warranties implied or expressed. This includes, without limitation, any warranties or merchantability and fitment for a particular purpose. We make no warranty as to products distributed by FMF Racing, expressed or implied. We will, however, pass on all warranties made by the manufacturer, who has sole responsibility for performing such warranties. A return authorization number must be issued by FMF Racing before product is returned. Returns must be sent back to FMF Racing freight prepaid. Proof of purchase, such as a copy of the original invoice, must accompany all warranty claims. Warranties will be honored to the direct purchaser only.