



## ***Slip-On Muffler Installation Instructions***

Thank you 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](http://www.fmfracing.com) for more information.

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) dual mufflers	042253-54
(4) spring	980025
(2) Quiet Core insert	841281

### ***Tools Required***

4, 5, 6mm allen wrenches  
10, 14mm end wrenches  
spring puller  
high temp silicone  
WD-40

### ***Attention***

**Carbon mufflers are less durable than titanium and more easily damaged from improper maintenance. Replace packing if there is indication of packing blow out as evidenced by the repack indicator decal turning from white to black, discoloration of muffler canister (gray carbon weave turning brown), increased exhaust sound level or a change in performance. Always replace packing material if water gets into the muffler and saturates the packing. Only use FMF's Apex Muffler Repacking Kit #012441 or warranty is void. Warranty is limited on this product.**

### ***Removal***

1. Make sure the engine is completely cool prior to installation and the vehicle is in a stable position.
2. Remove both rider and passenger seats.
3. Remove the long plastic panel covering the lower right side of the exhaust system.
4. Remove the exhaust valve cables from the servo located under the rider's seat.
5. Loosen the clamp connecting the right-side muffler pipe to the junction box.
6. While holding the muffler, remove the nut, bolt and washer mounting the muffler to the bike. Save for later use.
7. Gently slide the muffler rearward to release it from the junction box. To help ease removal, use WD-40 where the muffler and junction box connect. Remove the muffler from the vehicle, taking care to slide the cables out through the frame along with the muffler.
8. Repeat steps 5-7 to remove the left muffler.

### ***Pre - Installation***

9. The FMF system will utilize the stock muffler pipe clamps and gaskets. If either of the stock gaskets came off with the stock mufflers, carefully remove them and reinstall into the the junction box.

### Pre - Installation (cont.)

10. If a reduced sound level is desired, insert the Quiet Cores into each muffler inlet (front end of muffler). Installing the Quiet Core will result in a negligible loss in power. The Quiet Core can either be installed with the small end pointing inward toward the muffler (reduced sound level) or pointing outward away from the muffler (lowest sound level).

### Installation

11. Slide the right-side FMF midpipe into the junction box outlet (the right midpipe has a bracket for the lower plastic panel).
12. Apply a light bead of silicone to the midpipe where the muffler connects.
13. Slide the FMF muffler onto the midpipe. Wipe away any excess silicone. Make sure the muffler mount is on the outside of the mounting point on the passenger footpeg support.
14. Mount the muffler to the bike using the stock fasteners removed in step #6. Remove the washer from the bolt and place it between the muffler bracket and the rubber mount on the passenger footpeg support.
15. Using a spring puller, install two (2) supplied springs to connect the midpipe to the muffler.
16. Repeat steps 11-15 for the left-side midpipe and muffler.
17. Reinstall the panel removed in step #3.
18. Make sure the midpipes and mufflers are in a neutral position and not binding. Slowly tighten all mounting fasteners and clamps to manufacturer's specifications starting at the muffler mounts and finishing at the midpipe band clamps.
19. 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(s) and mounting points. Confirm all controls operate in accordance with manufacturer's specifications.

### Post - Installation

20. We recommend using high temp silicone for an improved seal. Please follow instructions for the silicone and allow sufficient time to cure before starting the engine.
21. All FMF exhaust products are designed to use stock fuel settings unless otherwise noted. However, for optimum performance, we offer our Power Programmer for many applications. Our fuel setting recommendations are to be used as a guide only and were derived from operation at sea level at 70 degree ambient air temperature. There are too many variables to provide precise fuel setting specifications; mainly altitude and temperature. If you are not capable of adjusting the fuel settings yourself, please find a mechanic in your area. Refer to our website for additional fuel setting information.
22. Start the engine and bring to operating temperature. Check for exhaust leaks.
23. 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 at least every 10-15K miles of normal use or if there is a noticeable sound difference or any discoloration to the canister or re-pack indicator (for carbon canisters). This will maintain peak performance and keep that race tone. More frequent repacking may be necessary for less than optimal fuel settings or sustained high speed riding. Water will ruin packing. Cover the exhaust outlet when washing your vehicle. Repack your muffler if water enters the chamber and saturates the packing. **FMF offers the Apex Muffler Repacking Kit #012441 for servicing your Apex muffler (must be used with carbon canister or warranty is void).** See instructions included with repacking kit for servicing your muffler.

**DISCLAIMER:** All products manufactured and/or distributed by FMF Racing are a) intended for use on stock vehicles specific to the U.S. market; b) for closed course use only unless otherwise stated and c) not intended to meet emission regulations for use on public lands, roads or access routes – consult with local jurisdictions. FMF Racing makes no claims as to the products applicability, effectiveness or fitment on modified machines. FMF Racing is the sole determiner of abuse, misuse, installation errors and modifications. We assume no liability for any errors in listings, specifications, part numbers, prices or model applications. We reserve the right to change specifications, product descriptions, product quality, pricing and application at any time without notice and without further obligation. Buyer assumes all risk for any and all damage caused to themselves, a third party and/or property by virtue of failure of these products. By installing and/or using an FMF product, you hereby accept and understand these stated terms and conditions and have followed all instructional steps.

**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 misused. 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.