



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.

Attention

This product is designed for closed course use only unless otherwise stated and not intended to meet emission regulations for use on public lands, roads or access routes – consult with local jurisdictions.

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	041486, 041489
(1) 8X45mm bolt	920200
(1) 1/4x28 bolt	900417
(1) washer	900529
(1) sleeve	941308
(1) side panel support	941318

Tools Required

(2) 12mm wrenches
4, 5mm allen wrenches
phillips screwdriver
contact cleaner
high temp silicone
WD-40
medium strength threadlocker fluid

Removal

1. Make sure engine is completely cool prior to installation and the vehicle is in a stable position.
2. Remove the two (2) bolts mounting the heatshield to the muffler.
3. Loosen the band clamp connecting the muffler midpipe to the header.
4. Remove the bolt attaching the midpipe to the subframe; keep for later use.
5. While holding the muffler, loosen and remove the muffler mounting nut and bolt; save the nut for future use.
6. Gently slide the muffler rearward to release it from the header. Use WD-40 in the midpipe/header junction to help ease removal.

Pre - Installation

7. Loosen the header flange hardware at the exhaust port to allow the header to rotate if necessary when mounting your new muffler.
- 8a. If installing the muffler onto a stock header, remove the preinstalled sleeve from the inlet end of the midpipe and apply a light bead of silicone to the inside of the midpipe where the sleeve slides in. Reinsert the sleeve and wipe off any excess silicone.
- 8b. If installing the muffler onto an FMF header, remove the sleeve; it is not needed.
9. Using contact cleaner, clean the section of the header where the midpipe connects and allow to dry. Apply a light bead of high temp silicone for an improved seal.

Pre - Installation

10. Remove the white side panel from the black heatshield by removing the four (4) phillips head screws.
11. Using the four (4) screws removed in step #10, attach the white side panel to the supplied side panel support (fig. 1).

Installation

12. Slide the FMF muffler onto the header. Wipe away any excess silicone.
13. Using the stock bolt removed in step #4, attach the midpipe to the subframe. Do not fully tighten at this time.
14. Insert the supplied 8x45mm bolt first through the frame from the back then through the muffler mount.
15. Slide the supplied washer onto the supplied 1/4x28 bolt then insert through the hole in the side panel support so the head of the bolt is accessible through the slot in the side panel (fig. 1). Apply a small amount of threadlocker fluid to the threads on the bolt.
16. Loosely thread the 1/4x28 bolt into the mounting boss on the muffler before positioning the side panel support over the muffler mounting bolt. Loosely thread the stock muffler mounting nut removed in step #5 onto the muffler bolt (fig. 1).
17. Adjust the side panel to have adequate clearance to the adjacent panels – note left side panels for reference. Tighten the 1/4x28 bolt to 11 Nm (8ft-lb).
18. Make sure the header and muffler are in a neutral position and not binding. Slowly tighten all mounting fasteners and clamps to manufacturer's specifications starting at the header flange and finishing at the muffler mount.
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 and mounting points. Confirm all controls operate in accordance with manufacturer's specifications.

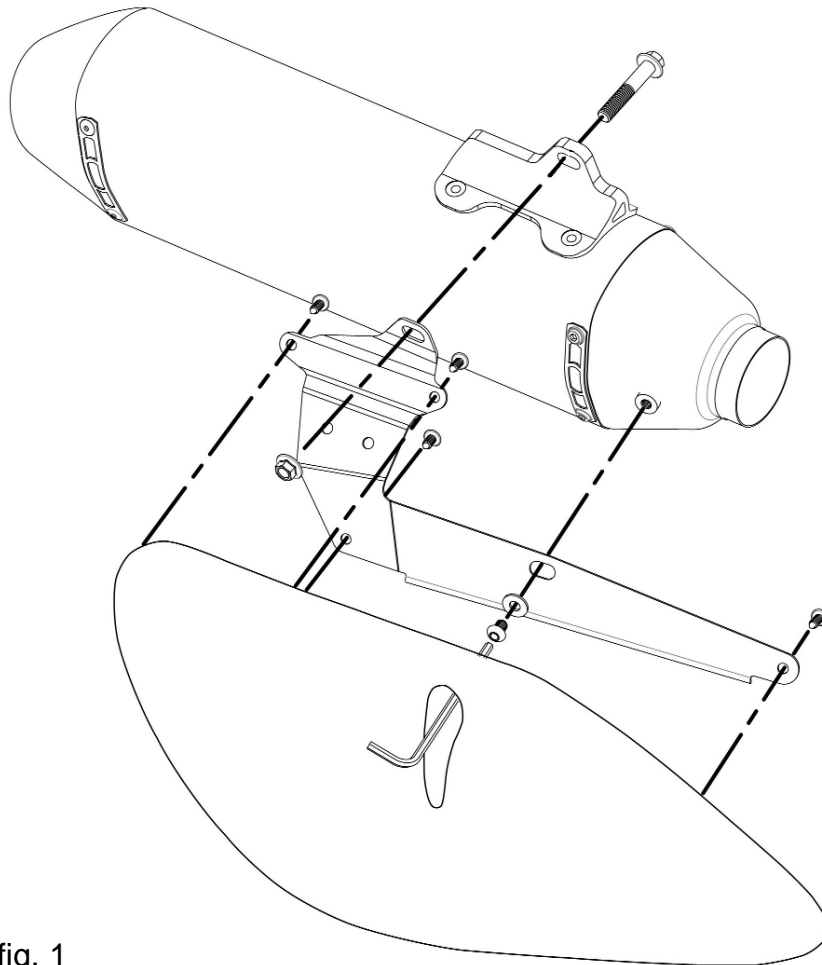


fig. 1

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 after every 20-30 hours of normal use when properly jetted (more frequently for less than optimal jetting). This will maintain peak performance and keep that race tone. Water will ruin packing. Cover the exhaust outlet when washing your vehicle. 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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