



Exhaust System 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 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	045284-87
(1) muffler hanger (included w/ complete system only)	940720

Tools Required

8, 10, 13mm socket wrenches
small flat blade screwdriver
spring puller
contact cleaner
high temp silicone
WD-40

Removal

1. Make sure engine is completely cool prior to installation and the vehicle is in a stable position.
2. Using a spring puller tool, remove the stock muffler spring at the muffler/header junction.
3. Remove the front muffler mounting bolt; keep for later use.
4. While holding the muffler, loosen and remove the rear muffler mounting bolt and clip-nut; keep for later use.
5. Gently slide the muffler rearward to release it from the header. Use WD-40 in the muffler/header junction to help ease removal.
6. Remove the bolt attaching the footwell strut to the subframe bracket. Flex the strut in to allow for pipe removal and installation. The bolt is located near the muffler inlet (fig.1).
7. Remove the two (2) header flange springs at the exhaust port and the bolt attaching the header to the frame; keep for later use.
8. Carefully remove the header out the front of the vehicle. Use WD-40 where the header connects to the exhaust flange to aid in removal.

Pre - Installation

9. The stock rubber muffler mounts will be used with your new FMF muffler. Remove the two aluminum washers from each mount and carefully push out the rubber grommets with a small flat blade screwdriver using care not to tear the rubber. Install the stock grommets and washers onto your new muffler. Use WD-40 to aid in the removal and installation of the grommets.
10. Locate the two (2) bolts attaching the right-rear fender support to the subframe and remove only the leading or most forward bolt. Attach the supplied muffler hanger to the subframe using the fender support bolt. Do not fully tighten at this time. Use the stock clip-nut removed in step #4 and slide onto the muffler hanger (fig.2).
11. Use contact cleaner to clean the section of the header where the muffler connects and allow to dry.
12. Remove the clip-nut from the stock header and install onto the mount of the FMF header.
13. Use contact cleaner to clean the exhaust port flange and allow to dry then apply a light bead of high temp silicone for an improved seal.

Installation

14. Install the FMF header onto the exhaust flange. Install the stock bolt and springs removed in step #7. Do not fully tighten at this time. The header must be loose enough to rotate if needed for aligning the muffler. Wipe away any excess silicone.
15. Apply a light bead of high temp silicone to the header outlet where the muffler connects.
16. Slide the FMF muffler onto the header. Wipe away any excess silicone.
17. Insert the (2) stock muffler mounting bolts removed in steps #3 and #4 through the muffler mounts and thread into the mounting points. Do not fully tighten at this time.
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 and finishing at the rear-most muffler mount. Reinstall all components removed per manufacturer's specifications.
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.

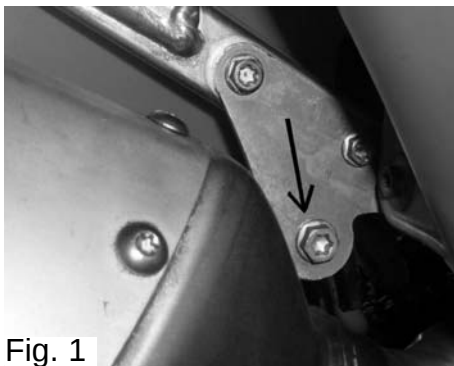


Fig. 1

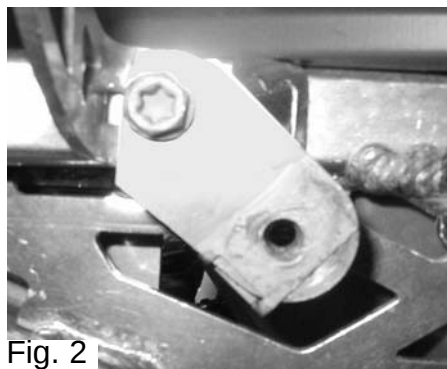


Fig. 2

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 jetting unless otherwise noted. However for optimum performance, we offer our Power Up Jet Kit for many applications. Our jetting 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 jetting specifications; mainly altitude and temperature. If you are not capable of tuning a carburetor yourself, please find a mechanic in your area. Refer to our website for additional jetting 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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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.