



Instructions for Installing FMF Muffler onto Stock Header

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.

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		Tools Required	
(1) exhaust system	042172	(1) hose clamp	900627
(4) strap brackets	940333	(1) grommet- male	920202
(3) 8x20mm bolt	920192	(1) grommet- female	920201
(1) 8x45mm bolt	920200	(1) sleeve	920105
(1) 8x12mm bolt	900181	(1) right-front muffler hanger	940794
(2) spacer	940792	(1) left-rear muffler hanger	940793
(2) washer	920147	(1) right-rear muffler hanger	940795
(2) band clamp	940085		
			10, 12mm socket wrench
			Phillip's screwdriver
			rubber mallet
			WD-40
			high temp silicone

- Removal**
1. Make sure engine is completely cool prior to installation and the vehicle is in a stable position.
 2. Remove the bed from the vehicle. If needed, consult a repair manual for instructions.
 3. For '08 models, remove the four (4) bolts securing the plate on top of the frame above the exhaust. Save for later use.
 4. Loosen both clamps connecting the muffler to the header pipes.
 5. For '08 models, remove the two (2) retention clips on the muffler mounting pins. For '09 models, remove the muffler stop at the rear muffler mount by removing the bolt then the stop. Reinstall the bolt but do not fully tighten at this time.
 6. Gently slide the muffler rearward to release it from the header. Use WD-40 in the muffler/header junction to help ease removal. Use a rubber mallet if necessary.
 7. Remove the large panel under the engine.
 8. Loosen and remove the nuts mounting the rear header to the engine; save for later use. Remove the header from the vehicle. Take care not to lose the port gasket; it will be reused if in good condition.
 9. Loosen and remove the nuts mounting the front header to the engine; save for later use. Remove the header from the vehicle. Take care not to lose the port gasket; it will be reused if in good condition.

- Pre - Installation**
10. The stock muffler mounts will be used with your new FMF mufflers. Remove the front mount from the left side of the frame and reposition it on the right side of the frame. The rear mount will be mounted similarly, but not at this time. Remove it and save for later use.
 11. Remove the heatshields from the front header and install on the FMF front header. The bottom shield may need to be bent slightly to gain adequate clearance when mounted to the pipe.
 12. Slide the supplied band clamps onto each muffler inlet. Do not tighten at this time.

Pre - Installation (cont.)

13. If the port gaskets stayed on the engine when the headers were removed, leave them in position. If the gaskets are stuck on the headers, carefully remove them with a small screwdriver or razor blade. If the gaskets are damaged, they must be replaced.

Installation

14. Install the front header. From under the vehicle, slide the rear of the header over the frame then move the front of the header into position at the exhaust port. Install the header into the port and tighten the mounting nuts finger tight.
15. Install the rear header from the top of the machine. Loop it around the front header and into position at the exhaust port. Install the header into the port and tighten the mounting nuts finger tight.
16. Apply a thin bead of silicone to the header outlets where the mufflers connect for an improved seal.
17. Slide the mufflers onto the headers making sure the front muffler hanger engages with the front muffler mount.
18. Loosely install the supplied hose clamp to hold the right rear muffler hanger in place against the frame.
19. Install the stock rear muffler mount by sliding it over the left rear muffler hanger and bolting it to the frame. For '08 models, use the bolt removed in step #10. For '09 models, use the supplied 8x 12mm bolt. Insert bolt through the frame and thread into the mount.
20. Make sure the header and mufflers are in a neutral position and not binding. Slowly tighten all mounting fasteners and clamps to manufacturer's specifications starting at the header flanges and finishing at the rearmost muffler mounts.
21. 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.

Post - Installation

22. 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.
22. All FMF exhaust products are designed to use stock jetting or fuel settings unless otherwise noted. However for optimum performance, we offer our Power Up Jet Kit and EFI Programmer for many applications. Our 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 or fuel setting specifications; mainly altitude and temperature. If you are not capable of tuning the fuel system yourself, please find a mechanic in your area. Refer to our website for additional information.
24. Start the engine and bring to operating temperature. Check for exhaust leaks.
25. 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 jetting or fuel settings (more frequently for less than optimal jetting or fuel settings). 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.