

Instruction 510-1158A
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Installation Instructions:

High-FLO Billet Fuel Rail

Fits for 2023-2025 M8 Touring Models with Oval Port Induction (part number 160-0295)



Say goodbye to cracked plastic OEM rails and hello to durability and performance like never before. Our Billet Fuel Rails are the ultimate solution for riders seeking reliability and enhanced fuel delivery. Crafted from premium grade 6061 aluminum and finished with a sleek black anodized coating, this fuel rail is built to last. Its direct replacement design ensures a seamless fit, eliminating worries about cracks and leaks commonly associated with plastic OEM rails.

But wait, there's more! It also boasts increased fuel capacity to dampen fuel pulses, resulting in smoother engine operation and improved performance. With enhanced fuel flow, you'll experience optimized fuel delivery for maximum power output. Upgrade your M8-powered bike with a proven performer; choose the S&S Cycle Billet Fuel Rail and unlock the true potential of your ride. Upgrade today!

Unpackage the new fuel rail

1. Remove all parts from packaging and lay out on a clean surface.

Prepare the bike for dis-assembly

2. Remove the seat.
3. Disconnect negative cable from battery or remove the main fuse.
4. Remove the fuel tank.

Removal of stock fuel rail

5. Disconnect electrical connectors from fuel injectors.
6. Remove fuel line from the fuel rail. Keep the screw.
7. Remove hold down screws from fuel rail.
8. Remove fuel rail and fuel injectors.

Re-Assembly with new fuel rail

9. Inspect the o-rings on the fuel injectors and replace if damaged.
10. Apply a light film of lube to the o-rings and install the injectors into the new fuel rail.



Picture 1

NOTE: the orientation of the alignment bosses on the injectors relative to the slots in the new fuel rail.

11. Install the fuel rail assembly into the intake manifold. Make sure the fuel rail is seated onto the mounting surface.



Picture 2

12. Apply blue thread locker to the threads of the provided screws and tighten to 31-49 in-lbs.
13. Inspect the o-ring on the fuel rail and replace if damaged.
14. Install the fuel line into the new fuel rail. Install the screw and torque to 22-40 in-lbs.
15. Install fuel tank.
16. Install seat.
17. Reconnect battery or install main fuse.
18. Turn ignition switch On to energize the fuel system. Check for leaks.
19. If no leaks present, start motorcycle.
20. Apply the included label containing the CARB EO number to the frame down tube above or below the factory label. Do not cover up any portion of the factory label.



Picture 3

Safety and Warranty Info:

DISCLAIMER:

S&S parts are designed for high performance, closed course, racing applications and are intended for the very experienced rider only. The installation of S&S parts may void or adversely affect your factory warranty. In addition such installation and use may violate certain federal, state, and local laws, rules and ordinances as well as other laws when used on motor vehicles used on public highways, especially in states where pollution laws may apply. Always check federal, state, and local laws before modifying your motorcycle. It is the sole and exclusive responsibility of the user to determine the suitability of the product for his or her use, and the user shall assume all legal, personal injury risk and liability and all other obligations, duties, and risks associated therewith.

The words Harley®, Harley-Davidson®, H-D®, Sportster®, Evolution®, and all H-D part numbers and model designations are used in reference only. S&S Cycle is not associated with Harley-Davidson, Inc.

Disclaimer: Exempt from emissions tampering regulations under CARB EO# D-355-61 for 2023-2025 touring models with oval port heads

SAFE INSTALLATION AND OPERATION RULES:

Before installing your new S&S part it is your responsibility to read and follow the installation and maintenance procedures in these instructions and follow the basic rules below for your personal safety.

- Gasoline is extremely flammable and explosive under certain conditions and toxic when breathed. Do not smoke. Perform installation in a well ventilated area away from open flames or sparks.
- If motorcycle has been running, wait until engine and exhaust pipes have cooled down to avoid getting burned before performing any installation steps.
- Before performing any installation steps disconnect battery to eliminate potential sparks and inadvertent engagement of starter while working on electrical components.
- Read instructions thoroughly and carefully so all procedures are completely understood before performing any installation steps. Contact S&S with any questions you may have if any steps are unclear or any abnormalities occur during installation or operation of motorcycle with a S&S part on it.
- Consult an appropriate service manual for your motorcycle for correct disassembly and reassembly procedures for any parts that need to be removed to facilitate installation.
- Use good judgment when performing installation and operating motorcycle. Good judgment begins with a clear head. Don't let alcohol, drugs or fatigue impair your judgment. Start installation when you are fresh.
- Be sure all federal, state and local laws are obeyed with the installation.
- For optimum performance and safety and to minimize potential damage to carb or other components, use all mounting hardware that is provided and follow all installation instructions.
- Motorcycle exhaust fumes are toxic and poisonous and must not be breathed. Run motorcycle in a well ventilated area where fumes can dissipate.

IMPORTANT NOTICE:

Statements in this instruction sheet preceded by the following words are of special significance.



WARNING

Means there is the possibility of injury to yourself or others.



CAUTION

Means there is the possibility of damage to the part or motorcycle.

NOTE

Other information of particular importance has been placed in italic type.

S&S recommends you take special notice of these items.

WARRANTY:

All S&S parts are guaranteed to the original purchaser to be free of manufacturing defects in materials and workmanship for a period of twelve (12) months from the date of purchase. Merchandise that fails to conform to these conditions will be repaired or replaced at S&S's option if the parts are returned to us by the purchaser within the 12 month warranty period or within 10 days thereafter.

In the event warranty service is required, the original purchaser must call or write S&S immediately with the problem. Some problems can be rectified by a telephone call and need no further course of action.

A part that is suspect of being defective must not be replaced by a Dealer without prior authorization from S&S. If it is deemed necessary for S&S to make an evaluation to determine whether the part was defective, a return authorization number must be obtained from S&S. The parts must be packaged properly so as to not cause further damage and be returned prepaid to S&S with a copy of the original invoice of purchase and a detailed letter outlining the nature of the problem, how the part was used and the circumstances at the time of failure. If after an evaluation has been made by S&S and the part was found to be defective, repair, replacement or refund will be granted.

ADDITIONAL WARRANTY PROVISIONS:

- (1) S&S shall have no obligation in the event an S&S part is modified by any other person or organization.
- (2) S&S shall have no obligation if an S&S part becomes defective in whole or in part as a result of improper installation, improper maintenance, improper use, abnormal operation, or any other misuse or mistreatment of the S&S part.
- (3) S&S shall not be liable for any consequential or incidental damages resulting from the failure of an S&S part, the breach of any warranties, the failure to deliver, delay in delivery, delivery in non-conforming condition, or for any other breach of contract or duty between S&S and a customer.
- (4) S&S parts are designed exclusively for use in Harley-Davidson® and other American v-twin motorcycles. S&S shall have no warranty or liability obligation if an S&S part is used in any other application.

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