

Instruction 9-910 Rev 07.23

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Rocket Performance Garage

Installation Instructions: Intake Manifold fits 2017 Later Harley-Davidson® M8 Engines

Installation Instructions: RPG Intake Manifold for 2017 Harley-Davidson® Touring Models with Milwaukee Eight™ Engines

DISCLAIMER:

Many RPG parts are designed for high performance, closed course, racing applications and are intended for the very experienced rider only. The installation of RPG 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. 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.

WARRANTY:

All RPG 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 RPG'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 RPG 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 RPG to make an evaluation to determine whether the part was defective, a return authorization number must be obtained from RPG. The parts must be packaged properly so as to not cause further damage and be returned prepaid to RPG 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 RPG and the part was found to be defective, repair, replacement or refund will be granted.

ADDITIONAL WARRANTY PROVISIONS:

- (1) RPG shall have no obligation in the event an RPG part is modified by any other person or organization.
- (2) RPG shall have no obligation if an RPG 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 RPG part.
- (3) RPG shall not be liable for any consequential or incidental damages resulting from the failure of an RPG 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 RPG and a customer.

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.

RPG recommends you take special notice of these items.

SAFE INSTALLATION AND OPERATION RULES:

Before installing your new RPG 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 RPG with any questions you may have if any steps are unclear, or any abnormalities occur during installation or operation of motorcycle with an RPG 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.

1. Remove the stock throttle body and intake manifold by following the factory service manual for the particular bike you are working on.
2. With the stock throttle body and intake manifold removed, remove the fuel rail, stock fuel injectors, MAP sensor, manifold flanges and seals if they have not been already. Set these aside as you will re-use them.
3. Clean the manifold mounting surface of the cylinder heads to assure a positive manifold seal.

NOTE: You won't put fuel rail and injectors in the manifold until the manifold is installed loosely in the motor.

4. Place manifold flanges on the manifold, flat side toward the manifold and bevel toward head.
5. Install new manifold O-ring seals with the beveled side toward the flange and the flat side outward so that it contacts the cylinder head. **Picture 1** illustrates the O-ring seal installed.



Picture 1

6. Install manifold on bike loosely.
7. Install the injectors, fuel rail and MAP sensor into the manifold. **See Picture 2.**

Important: Use a low strength thread locker to seal the threads of the fuel rail and MAP sensor fasteners.



Picture 2

8. Pass the four bolts through the manifold flanges and thread into the head. Snug bolts up but leave loose, you will tighten later once the throttle body and back plate are installed.
9. Install the supplied O-ring into the manifold as illustrated in **Picture 3.**



Picture 3

10. Install the throttle body onto the manifold.
11. Install the air cleaner assembly per the manufacturer's installation instructions.
12. Once the air cleaner is installed go back and finish tightening the four manifold flange bolts that were left loose upon installation.