

Performer 3-Piece EFI Intake Manifolds  
for Harley-Davidson® Twin Cam 88 Engines  
with Electronic Fuel Injection  
Catalog #1768  
INSTALLATION INSTRUCTIONS

Please study these instructions carefully before installing your new intake manifold. If you have any questions or problems, please call our Technical Hotline at: 1-800-416-8628, 7:00 am - 5:00 pm, Pacific Standard Time, Monday through Friday or e-mail us at [edelbrock@edelbrock.com](mailto:edelbrock@edelbrock.com). Please fill out and mail your warranty card.

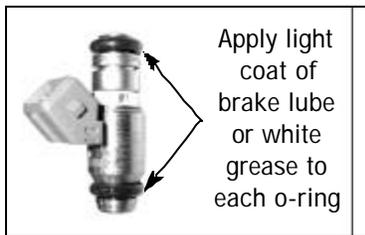
DESCRIPTION

The Edelbrock Performer 3-piece intake manifold is designed for street high performance use with Edelbrock Twin Cam EFI Performer RPM heads only. This intake manifold is designed to make excellent power increases in the stock rpm range of fuel injected, Harley-Davidson® Twin Cam® engines (idle to 6000 rpm). This manifold and heads feature a rectangular shaped intake port for a noticeable increase in air flow. This .125" raised rectangular intake port also helps to increase the velocity of the incoming air for more power. This intake manifold can only be used on Edelbrock heads because of the unique port shape. The Performer manifold fits fuel injected Twin Cam 88 based motors with Edelbrock Performer RPM heads. It is designed to accept the stock 44mm throttle body. NOTE: A 4mm ball end Allen wrench or 4mm ball end Allen driver is required to properly tighten the throttle body mounting screws.

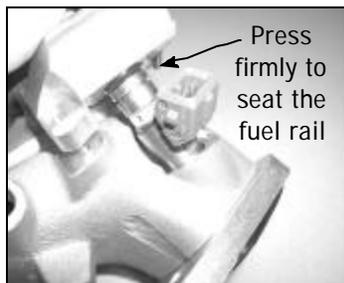


MANIFOLD ASSEMBLY

1. Inspect manifold for any nicks or other damage on the sealing surfaces.
2. Apply a light coating (one drop) of brake cylinder assembly lube, or a light film of white grease to each of the o-rings on the stock fuel injectors and press them carefully into the intake manifold.
3. Carefully slip the factory fuel rail over the fuel injectors and press down until the fuel injectors are seated into the fuel rail. NOTE: It may be helpful to press one injector into the fuel rail at a time. The o-rings will allow enough flex to maneuver the fuel rail over each injector individually.

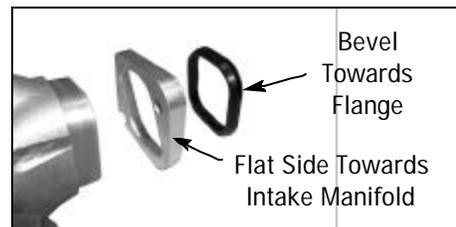


4. Using the supplied 4mm x .7, 16mm long socket head cap screws, secure the fuel rail to the intake manifold. DO NOT OVERTIGHTEN.



5. Note that flanges are marked front and rear. Place flanges on manifold with the 30° tapered side facing out (toward the head) and the slotted bolt holes to the rear of the manifold.

6. Lubricate grommets with a lightweight oil such as fork oil or brake assembly lube (not brake fluid). Note that the grommets are rectangular, and will only fit on manifold one way. Push grommets onto manifold as far as they will go, with the tapered side facing the manifold.



Manifold Flange Assembly Order  
(Apply Light Coat of Lube to Grommet)



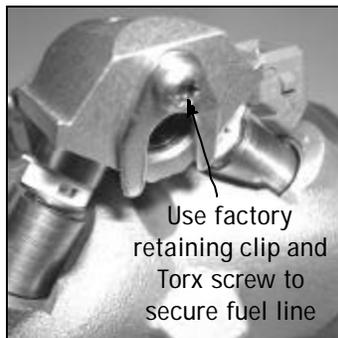
Complete Manifold Assembly

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## MANIFOLD INSTALLATION

Manifold installation will usually be done along with installation of Edelbrock cylinder heads. Refer to cylinder head instructions for step-by-step procedures, if necessary. These instructions cover only the procedures that apply to Edelbrock 3-piece intake manifolds.

1. Place manifold in position on cylinder heads, being careful not to pinch or fold-over the grommets.
2. Start all four manifold bolts and washers by hand, then tighten each bolt gradually, moving from bolt-to-bolt in small steps. There is no room for a torque wrench, but final torque should be very firm (18-23 ft./lbs.). If desired, you may use a non-permanent locking compound, such as green Loctite®, on bolt threads. NOTE: You must use the AN washers supplied on the manifold bolts to prevent over-stressing and cracking the flanges.
3. Install the factory fuel injector retaining bracket over the rear of the fuel rail to secure the fuel injectors.
4. Attach the factory fuel line to the fuel rail using the stock retaining clip and Torx screw. NOTE: Use care not to damage the stock fuel line o-ring seal.



## TROTTLE BODY INSTALLATION

1. Insert the factory MAP sensor into the Edelbrock intake manifold.
2. Apply a light film of white grease, or brake cylinder assembly lube to the throttle body o-ring seal to hold it in place during installation.
3. Install the throttle body onto the intake manifold using the supplied 4mm x .7, 20mm long socket head capscrews. Make sure the tab on the throttle body lines up with the MAP sensor to hold it in place. NOTE: When installing the throttle body, the use of a ball-end 4mm Allen wrench or 4mm ball-end Allen driver is necessary for tightening of the capscrews.

Because the 3-piece manifold “floats” between the two cylinder heads, it is very important that the throttle body is properly supported to prevent manifold droop and resulting in leakage at the grommets. Be sure that the air cleaner backing plate is secured or that the necessary air cleaner support brackets are used.

## REPLACEMENT PARTS

Replacement grommets and flanges are available from your local bike shop.

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