



PERFORMER RPM SINGLE & DUAL QUAD INTAKE MANIFOLD

For Early Big Block Chevy 348 & 409 cid Engines

Part #5408, #5409, #7158 & #7159

INSTALLATION INSTRUCTIONS

Please study these instructions carefully before installing your new Edelbrock RPM Dual-Quad Intake Manifold. If you have any questions, please contact our **Technical Hotline at: 1-800-416-8628**, 7am - 5pm, Monday-Friday, Pacific Standard Time.

IMPORTANT NOTE: Proper installation is the responsibility of the installer. Improper installation will void warranty and may result in poor performance and engine or vehicle damage.

DESCRIPTION: These intake manifolds are designed to allow the use of single or dual carburetors on an early-style big block Chevy 348 or 409. The #5408 and #7158 have smaller runner exits that are designed to match the ports found on production 348 and standard 409 cylinder heads, while the #5409 and #7159 have larger runner exits intended for use with the factory high performance 409 heads, or with Edelbrock Performer RPM cylinder heads #60809/#60819. Please note that the #5408 and #7158 manifolds will not cover the larger 409 ports and will create a vacuum leak if used in that application, while using the #5409 or #7159 on small port heads will interfere with valve cover installation. Verify your components are properly matched before beginning installation.

ACCESSORIES

CARBURETORS: Most dual quad applications will work best with two 500 cfm carburetors setup with a progressive linkage. Edelbrock offers carburetors that have been calibrated specifically for our dual quad manifolds as part #1803 with electric choke and #1804 with manual choke. When using a progressive linkage, the front carburetor will have the choke disabled and so an #1804 is strongly recommended for that position. The rear carburetor will handle most low speed fueling and it can be equipped with manual or electric choke, or no choke at all if the vehicle will be used exclusively in warm weather. Single quad applications will require a larger individual carburetor. We recommend a 600 cfm or 650 cfm for 348 applications such as the Performer #1405 or Thunder AVS #1806. 409 Applications should use a 750 cfm or 800 cfm carburetor such as the Performer #1407 or Thunder AVS #1813.

DUAL-QUAD LINKAGE: Progressive linkage kit #7094 is strongly recommended for use with Edelbrock carburetors installed in dual quad configuration. Use of a direct 1:1 linkage can cause a stumble or bog during low speed acceleration. Throttle and transmission kickdown cables can vary widely from one application to another; adapters and/or brackets may need to be purchased or fabricated.

FUEL REQUIREMENTS: Edelbrock carburetors require a fuel pressure of 4 - 6.5 psi for proper operation. This can be achieved without a regulator by using Edelbrock electric fuel pump #1791. Edelbrock offers a dual feed fuel line, part #8091, that will simplify plumbing your pump to two Edelbrock carburetors. A filter must be installed between the pump and carburetors to prevent any potential engine damage.

GASKETS: Manifolds #5408 & #7158 use small port gaskets, Edelbrock part #7242, while the #5409 & #7159 manifolds use large port gaskets, Edelbrock #7240. Do not use cork or rubber end seals. Apply a 1/4" bead of Ultra Black RTV silicone along the end seal surface, and overlap the bead onto each gasket by approximately 1/2".

OIL FILL TUBE: An oil fill tube is included with these manifolds, and a provision for it has been drilled at the front of the manifold. It is generally easier to install the tube after the manifold has been installed on the engine, but it can also be installed first. To install the oil fill tube insert the thinner end of the tube into the hole and apply pressure until it is snug. Place a block of wood on the top of the tube to evenly distribute the force, and use a hammer or mallet to tap the tube firmly in place. Please note that the end of this tube has been textured to improve breather retention, resurfacing this area is not recommended.

BREATHER PROVISION: A breather provision has been supplied behind the carb pad to allow for additional crankcase ventilation. This breathing solution has been designed to be compatible with most air cleaners, but custom and/or unique applications may require some creativity in plumbing. Use of a PCV valve is not recommended, nor is hooking up the breather provision to manifold vacuum, due to the potential for excessive oil consumption and subsequent fouling of spark plugs.

INSTALLATION PROCEDURE

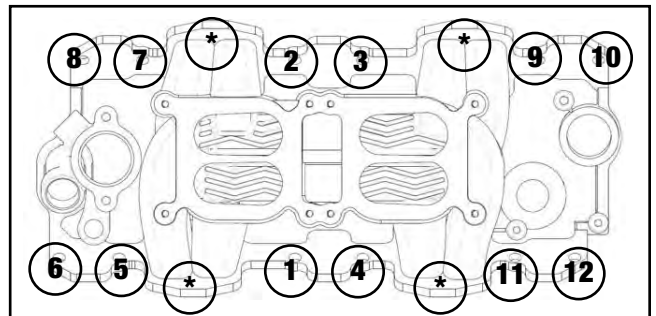
1. Before beginning installation, inspect all passages in the manifold for any debris or contaminants. Remove any loose material to prevent potential engine damage.
2. Mount the supplied baffle plate to the underside of the manifold with the three supplied drive screws.
3. Fully clean the cylinder head intake flanges.
4. Apply Edelbrock Gaseq sealant P/N 9300 to both cylinder head flanges and to the cylinder head side of the gaskets, allow to air dry, and attach the intake gaskets.
5. Do not use cork or rubber end seals. Use RTV silicone sealer instead. Apply a ¼" high bead across each block end seal surface, overlapping the intake gasket at the four corners. This method will eliminate end seal slippage.
6. Install the intake manifold and hold-down bolts.
7. Torque the manifold bolts according to the sequence illustrated below.
8. If the oil fill tube has not yet been installed, install the oil fill tube and breather following the directions supplied on the previous page.
9. Insert the rubber grommet into the large hole behind the carburetor pad.
10. Trim the supplied plastic fitting at the top of the barb (roughly 5/8" down from the lip) and insert the shortened end into the grommet.
11. If your air filter base does not include a hose fitting on the base, use the supplied fitting as a template for drilling the two 5/16" mounting holes and the larger 3/4" central air hole towards the rear of your air cleaner base.
12. Mount the hose fitting to your air cleaner base using the supplied hardware. Certain applications may require clearancing of the base or the fitting to achieve a good fit. Use a small amount of silicone to ensure a proper seal if the fitting does not sit flush against the base.
13. Mount your air cleaner onto your carburetor(s) and line up the supplied molded hose with the plastic fitting and the air cleaner base fitting. Trim the hose as necessary until it lines up properly with both fittings and install it (See picture below).

KIT CONTENTS:

- 1x - Manifold
- 1x - Oil Fill Tube
- 1x - Breather
- 3x - Drive Screws
- 1x - Rubber Breather Grommet
- 1x - Plastic Breather Tube
- 1x - 90° Molded Hose
- 1x - Breather Baffle Plate
- 1x - Air Cleaner Base Fitting
- 2x - Bolts
- 2x - Nuts



Breather Hose Sample Installation



Single & Dual Quad Intake Manifold Torque Sequence

Torque bolts to 25 ft/lbs in the sequence shown above.

The #5409 & #7159 manifolds include auxiliary bolt holes marked with an asterisk(*). These bolts should be installed last, and should only be torqued to 10 ft-lbs.. The #5408 & #7158 manifolds do not include these holes.



Edelbrock LLC • 2700 California St. • Torrance, CA 90503
Tech Line: 800-416-8628 • Office Line: 310-781-2222