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› Edelbrock 1405 Performer 600 CFM Square Bore 4-Barrel Air Valve Secondary Manual Choke New Carburetor User Manual

Edelbrock 1405

Edelbrock Performer 600 CFM Carburetor User Manual

Model: 1405

INTRODUCTION

The Edelbrock Performer Square Bore Air Valve Secondary Manual Choke New Carburetor is engineered for optimal street performance and fuel economy. Its two-piece, all-aluminum construction contributes to cooler operating temperatures and reduced warping. This carburetor is specifically designed and calibrated for use in 402 CID and larger engines, pairing effectively with Edelbrock Performer manifolds.

Key design elements include the absence of gaskets below the fuel bowl level to minimize leaks, and the exclusion of plastic parts or power valves that could fail. The Performer manual choke carburetor incorporates both timed and full vacuum ports for precise ignition advance. Tuning is facilitated by easily changeable metering rods.

FEATURES

- Designed and calibrated for optimum marine performance.
- Single feed fuel inlet with air valve secondary type.
- Shiny silver finish, calibrated for gasoline.
- Manual choke with 4-barrel square bore carburetor flange.
- Universal Fit type.

WHAT'S IN THE BOX



Image: The Edelbrock 1405 Performer carburetor shown alongside its owner's manual, a tuning DVD, mounting studs, and a base gasket kit, illustrating the complete package contents.

The Edelbrock Performer 600 CFM Carburetor package typically includes:

- Instruction Book
- Base Gasket
- Edelbrock Performer 600 CFM Carburetor (Model 1405)

Note: Additional components for installation or tuning may be sold separately.

SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your Edelbrock Performer Carburetor. It is highly recommended to consult the official installation manual provided by Edelbrock for detailed, step-by-step instructions specific to your vehicle and engine configuration.

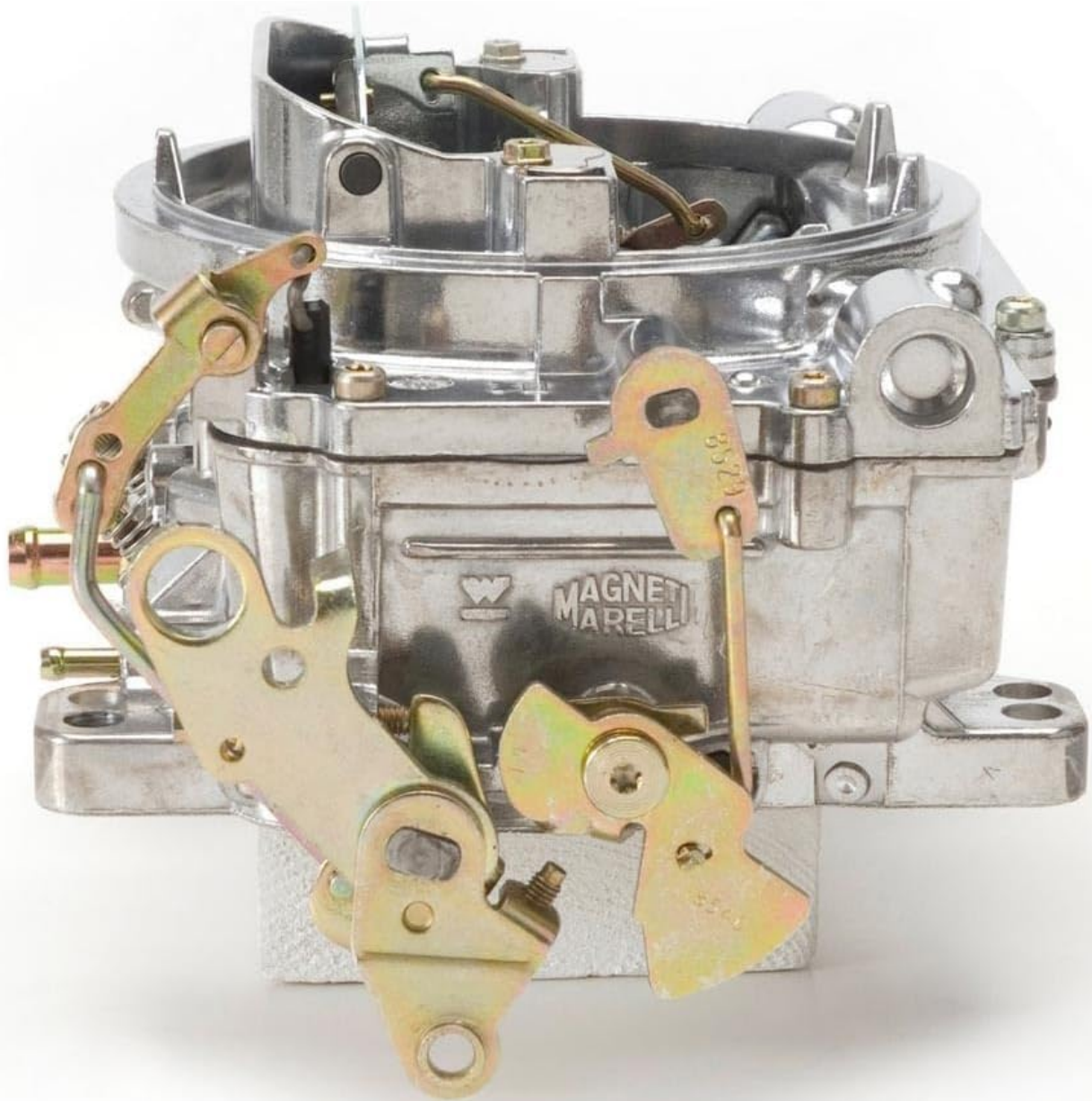


Image: A side view of the Edelbrock 1405 carburetor, highlighting the manual choke linkage and various vacuum ports, essential for proper setup and connection.

General Installation Guidelines:

1. **Preparation:** Ensure the engine is cool and disconnect the battery. Gather all necessary tools and safety equipment.
2. **Removal of Old Carburetor:** Carefully disconnect fuel lines, vacuum lines, throttle linkage, and choke linkage from the existing carburetor. Remove mounting nuts and lift the old carburetor.
3. **Manifold Preparation:** Clean the manifold surface thoroughly. Install the new base gasket provided with the Edelbrock carburetor.
4. **Carburetor Placement:** Carefully place the new Edelbrock 1405 carburetor onto the manifold studs, ensuring proper alignment with the gasket.
5. **Securing:** Install and tighten the mounting nuts evenly to the specified torque, following a crisscross pattern to prevent warping.
6. **Connections:** Reconnect all fuel lines, vacuum lines, throttle linkage, and manual choke cable. Ensure all connections are secure and free of leaks.
7. **Initial Adjustments:** Perform initial adjustments for idle speed, mixture, and choke as outlined in the detailed

manual.

For comprehensive installation instructions, including torque specifications and detailed diagrams, please refer to the official [Edelbrock 1405 Installation Manual \(PDF\)](#).

OPERATION

The Edelbrock Performer 600 CFM Carburetor is designed for reliable street performance. Understanding its basic operation will help ensure smooth engine function.

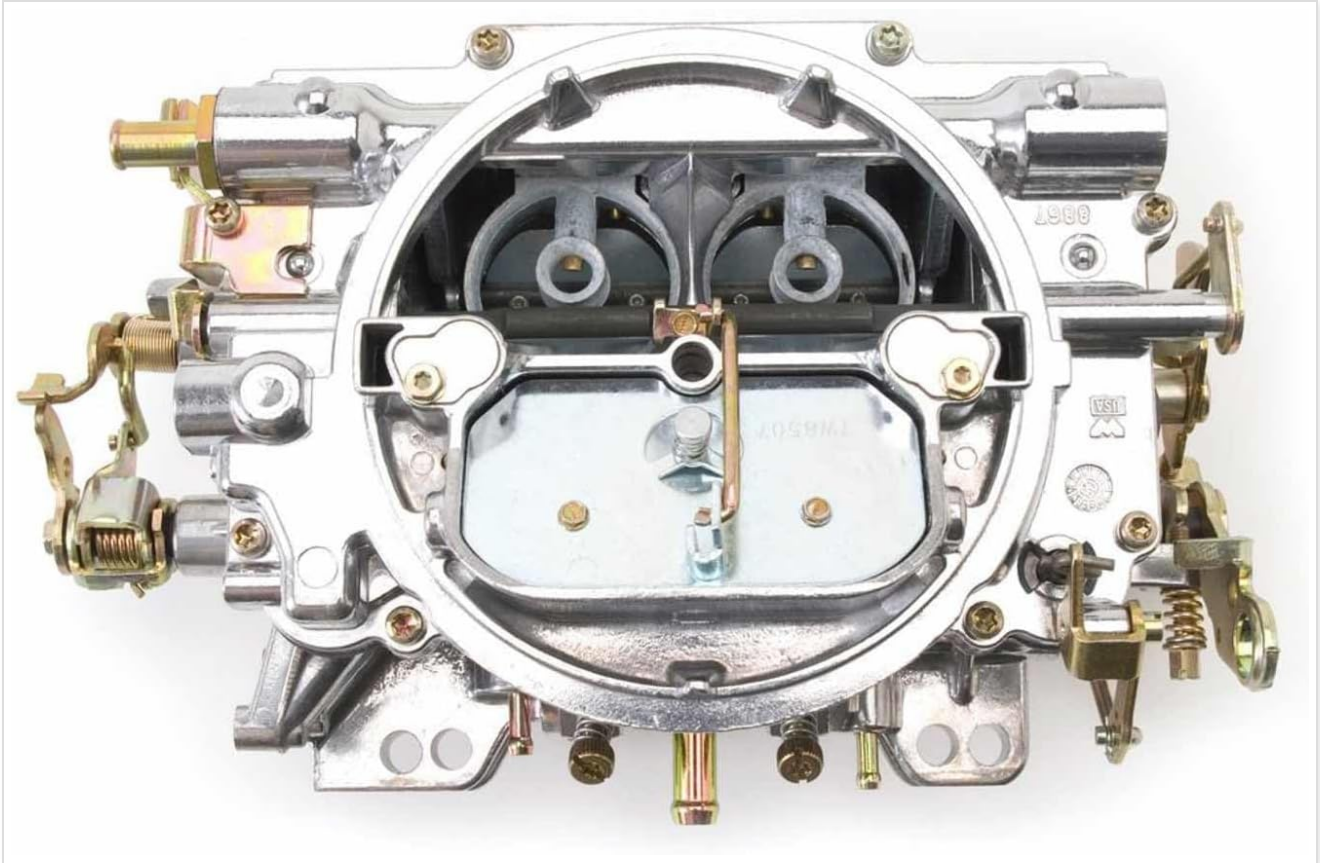


Image: A top-down view of the Edelbrock 1405 carburetor, showing the primary and secondary throttle bores, air horn, and fuel inlet, illustrating the main components involved in air and fuel delivery.

Manual Choke Operation:

- For cold starts, pull the manual choke knob fully out to enrich the fuel mixture.
- Once the engine starts and warms up slightly, gradually push the choke knob in to lean the mixture.
- Fully push in the choke knob once the engine reaches operating temperature and idles smoothly without it.

Fuel Delivery:

- The carburetor features a single feed fuel inlet. Ensure your fuel system provides clean, consistent fuel pressure.
- The air valve secondary design allows for smooth transition to higher RPMs by progressively opening the secondary throttle plates based on engine vacuum.

For detailed tuning procedures and advanced operational insights, refer to the comprehensive user manual.

MAINTENANCE

Regular maintenance ensures the longevity and consistent performance of your Edelbrock 1405 carburetor.

- **Fuel Filter:** Regularly inspect and replace your fuel filter to prevent contaminants from reaching the carburetor.
- **Air Filter:** Ensure your engine's air filter is clean and in good condition to prevent dirt and debris from entering the carburetor.
- **Linkage Lubrication:** Periodically lubricate all moving linkages (throttle, choke) with a suitable lubricant to ensure smooth operation.
- **Visual Inspection:** Routinely check for any signs of fuel leaks, loose connections, or damaged components. Address any issues promptly.
- **Cleaning:** If necessary, use a carburetor cleaner specifically designed for automotive use. Avoid harsh chemicals that may damage seals or finishes.

Note: For internal cleaning or rebuilds, it is recommended to consult a qualified automotive technician or refer to the official service manual.

TROUBLESHOOTING

This section provides general guidance for common issues. For complex problems, professional assistance is recommended.

Problem	Possible Cause	Solution
Engine Cranks but Won't Start	No fuel, incorrect choke setting, fouled spark plugs.	Check fuel supply, adjust choke, inspect ignition system.
Rough Idle / Stalling	Vacuum leak, incorrect idle mixture, dirty fuel filter.	Check for vacuum leaks, adjust idle mixture screws, replace fuel filter.
Poor Acceleration / Hesitation	Incorrect accelerator pump setting, restricted fuel flow, improper jetting.	Adjust accelerator pump, check fuel lines, consider jetting changes (refer to manual).
Fuel Leaks	Loose fittings, damaged gaskets, stuck float.	Tighten connections, replace gaskets, inspect float level.

For detailed troubleshooting steps and tuning guides, refer to the official [Edelbrock 1405 User Manual \(PDF\)](#).

SPECIFICATIONS

Attribute	Detail
Brand	Edelbrock
Model Number	1405
CFM Rating	600 CFM
Flange Type	Square Bore
Barrel Count	4-Barrel

Attribute	Detail
Choke Type	Manual Choke
Secondary Type	Air Valve Secondary
Fuel Type	Gasoline
Exterior Finish	Brushed (Shiny Silver)
Item Weight	8.7 pounds
Fit Type	Universal Fit

WARRANTY AND SUPPORT

The Edelbrock Performer 600 CFM Carburetor (Model 1405) is backed by Edelbrock's exclusive 90-day warranty. This warranty typically covers the replacement or repair of the product itself and does not cover the cost of removal and installation.

For warranty claims, technical support, or further assistance, please contact Edelbrock customer service directly or visit their official website. It is advisable to have your product model number and purchase information ready when contacting support.

Official Resources:

- Official Edelbrock Store on Amazon: [Visit Edelbrock Store](#)
- Edelbrock 1405 Installation Manual (PDF): [Download Manual](#)
- Edelbrock 1405 User Manual (PDF): [Download Manual](#)

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