

[Manuals.plus](#) /

› [Edelbrock](#) /

› Edelbrock 1792 Electric Fuel Pump Instruction Manual

Edelbrock 1792

Edelbrock 1792 Electric Fuel Pump Instruction Manual

Model: 1792

[Contents](#) [Installation](#) [Operation](#) [Introduction](#) [Maintenance](#) [Safety Information](#) [Troubleshooting](#) [Package](#) [Specifications](#) [Warranty & Support](#)

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Edelbrock 1792 Electric Fuel Pump. Please read this manual thoroughly before attempting any installation or operation to ensure safety and optimal performance.

Product Overview

The Edelbrock 1792 Electric Fuel Pump is designed to deliver a free flow rate of 160 gallons per hour (GPH), capable of supplying fuel to engines up to 1,000 horsepower. This pump is factory preset to 12 PSI and requires an external fuel regulator for proper pressure management. It features single 1/2 inch NPT inlet and 1/2 inch NPT outlet ports for connection to your fuel system. Constructed with high-quality materials, including anodized aluminum housing, carbon fiber vanes, and composite rotors, the pump is engineered for durability and performance. Its design also contributes to quieter operation, typically 4 to 14 dB quieter than conventional models, and helps keep the motor and components cool under demanding conditions.



Figure 1: Edelbrock 1792 Electric Fuel Pump. This image shows the compact design of the fuel pump with its inlet and outlet ports.

Key Features

- **High Flow Rate:** Delivers 160 GPH, suitable for engines up to 1,000 HP.
- **Preset Pressure:** Factory preset to 12 PSI, requiring an external fuel regulator.
- **Durable Construction:** Features anodized aluminum housing, carbon fiber vanes, and composite rotors.
- **Quiet Operation:** Operates 4 to 14 dB quieter than many conventional pumps.
- **Efficient Cooling:** Unique design maintains optimal operating temperature for components.
- **Easy Installation:** Includes mounting brackets and standard 1/2 inch NPT inlet/outlet ports.
- **Vehicle Specific Fit:** Designed for specific vehicle applications.

2. SAFETY INFORMATION

Always observe the following safety precautions when working with fuel systems and electrical components. Failure to do so may result in serious injury, fire, or damage to your vehicle.

- **Professional Installation Recommended:** Due to the complexity of fuel and electrical systems, professional installation by a qualified mechanic is highly recommended.
- **Disconnect Battery:** Always disconnect the vehicle's battery before beginning any work on the fuel or electrical system.
- **Work in a Well-Ventilated Area:** Fuel vapors are highly flammable and hazardous. Ensure adequate ventilation to prevent accumulation of fumes.
- **No Open Flames or Sparks:** Do not smoke or use any open flames, sparks, or other ignition sources near the vehicle during installation or maintenance.
- **Wear Protective Gear:** Always wear appropriate personal protective equipment, including safety glasses and gloves.
- **Fuel Spills:** Have appropriate spill containment and cleanup materials readily available. Dispose of spilled fuel and contaminated materials according to local regulations.
- **Electrical Connections:** Ensure all electrical connections are secure and properly insulated to prevent short circuits and fire hazards.
- **Fuel Pressure:** Be aware that fuel systems operate under pressure. Relieve fuel system pressure before disconnecting any fuel lines.

3. PACKAGE CONTENTS

Upon opening the package, verify that all components are present and undamaged. If any items are missing or damaged, contact your retailer or Edelbrock customer support immediately.

- Edelbrock 1792 Electric Fuel Pump
- Mounting Brackets
- Installation Hardware (e.g., nuts, bolts, washers - *may vary*)
- Instruction Manual (this document)

Note: Additional components such as an external fuel regulator, fuel lines, and fittings are required for a complete installation and are sold separately.

4. INSTALLATION

Proper installation is critical for the performance and longevity of your Edelbrock 1792 Electric Fuel Pump. Refer to your vehicle's service manual for specific fuel system and electrical wiring diagrams.

General Installation Steps

1. Preparation:

- Ensure the vehicle is parked on a level surface with the engine off and cool.
- Disconnect the negative terminal of the vehicle's battery.
- Relieve fuel system pressure according to your vehicle's service manual.
- Drain the fuel tank if necessary, or ensure fuel levels are low to minimize spillage.

2. Mounting the Pump:

- Select a suitable mounting location away from heat sources and moving parts, preferably below the fuel tank level to aid in priming.
- Use the provided mounting brackets to securely fasten the fuel pump to the vehicle chassis. Ensure the pump is

mounted in a manner that allows for easy access to the inlet and outlet ports and electrical connections.

3. Fuel Line Connections:

- Connect the fuel supply line from the fuel tank to the 1/2 inch NPT inlet port of the pump.
- Connect a new fuel line from the 1/2 inch NPT outlet port of the pump to your external fuel regulator.
- Ensure all fuel line connections are tight and leak-free. Use appropriate thread sealant for NPT fittings if recommended.

4. External Fuel Regulator:

- Install an appropriate external fuel regulator downstream of the fuel pump. The Edelbrock 1792 is factory preset to 12 PSI and *requires* an external regulator to achieve the desired fuel pressure for your engine.
- Follow the manufacturer's instructions for the external fuel regulator installation and adjustment.

5. Electrical Wiring:

- Wire the fuel pump to a switched 12-volt power source, typically through a relay and an appropriate fuse (e.g., 15-20 amp).
- Ensure the wiring gauge is sufficient for the pump's current draw.
- Connect the pump's ground wire to a clean, secure chassis ground point.
- All electrical connections must be secure and protected from moisture and abrasion.

6. Final Checks:

- Double-check all fuel line connections for tightness.
- Verify all electrical connections are secure.
- Reconnect the vehicle's battery.
- Turn the ignition to the "ON" position (without starting the engine) to allow the pump to prime and check for any fuel leaks. Address any leaks immediately.
- Start the engine and re-check for leaks and proper fuel pressure.

5. OPERATION

The Edelbrock 1792 Electric Fuel Pump is designed for consistent and reliable fuel delivery. Once properly installed and wired, its operation is largely automatic, controlled by the vehicle's electrical system.

How it Works

- When the ignition is turned on, the fuel pump receives electrical power, activating its internal motor.
- The motor drives the carbon fiber vanes and composite rotors, drawing fuel from the tank through the 1/2 inch NPT inlet port.
- Fuel is then pressurized and pushed out through the 1/2 inch NPT outlet port towards the external fuel regulator and then to the engine's fuel system.
- The external fuel regulator maintains the desired fuel pressure for optimal engine performance, returning excess fuel to the tank.
- The pump's unique design ensures efficient cooling of its components, contributing to its longevity and consistent performance, even under demanding conditions.

The pump's quiet operation (4 to 14 dB quieter than conventional models) means you may not hear it as prominently as other fuel pumps, but its consistent flow rate of 160 GPH ensures your engine receives adequate fuel.

6. MAINTENANCE

The Edelbrock 1792 Electric Fuel Pump is designed for minimal maintenance. However, periodic checks of the fuel system are

recommended to ensure continued optimal performance and safety.

- **Inspect Fuel Lines and Connections:** Regularly check all fuel lines, fittings, and connections for signs of leaks, cracks, or wear. Replace any damaged components immediately.
- **Check Electrical Connections:** Ensure all electrical wiring to the pump is secure, free from corrosion, and properly insulated.
- **Fuel Filter:** Ensure a high-quality fuel filter is installed upstream of the fuel pump to protect it from contaminants. Replace the fuel filter according to its manufacturer's recommendations or more frequently in dusty or harsh environments.
- **Mounting Security:** Periodically check that the fuel pump and its mounting brackets are securely fastened and free from excessive vibration.
- **Cleanliness:** Keep the area around the fuel pump clean and free of debris.

Do not attempt to disassemble the fuel pump. There are no user-serviceable parts inside. Disassembly will void any warranty.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your Edelbrock 1792 Electric Fuel Pump. For more complex problems, consult a qualified automotive technician.

Problem	Possible Cause	Solution
Pump does not operate (no sound, no fuel flow)	• No electrical power to pump • Blown fuse • Faulty relay • Loose electrical connection • Damaged pump motor	• Check power supply to pump. • Inspect and replace fuse if blown. • Test and replace relay if faulty. • Verify all electrical connections are secure. • If power is present and connections are good, the pump may be faulty and require replacement.
Low fuel pressure or inconsistent flow	• Clogged fuel filter • Air leak in suction line • Restricted fuel line • Faulty external fuel regulator • Low voltage to pump • Damaged pump internals	• Replace fuel filter. • Inspect suction line for leaks or loose connections. • Check fuel lines for kinks or obstructions. • Test and adjust/replace external fuel regulator. • Verify proper voltage supply to the pump. • If other causes are ruled out, the pump may be damaged.
Fuel leaks	• Loose fittings • Damaged fuel lines • Improperly sealed NPT connections	• Tighten all fuel line fittings. • Replace damaged fuel lines. • Ensure proper thread sealant is used on NPT connections.

8. SPECIFICATIONS

Technical specifications for the Edelbrock 1792 Electric Fuel Pump.

- **Model:** 1792
- **Operation Mode:** Electric
- **Free Flow Rate:** 160 Gallons Per Hour (GPH)
- **Factory Preset Pressure:** 12 PSI (requires external regulator)

- **Inlet Port Size:** 1/2 inch NPT
- **Outlet Port Size:** 1/2 inch NPT
- **Material:** Aluminum, Carbon Fiber (housing, vanes, rotors)
- **Fit Type:** Vehicle Specific Fit
- **Vehicle Service Type:** Motorcycle (*Note: This may be a general category, verify compatibility for your specific application*)
- **Item Weight:** Approximately 3.14 pounds
- **Manufacturer Part Number:** 1792
- **UPC:** 085347017928

9. WARRANTY AND SUPPORT

Specific warranty details for the Edelbrock 1792 Electric Fuel Pump are not provided within this document. For information regarding warranty coverage, terms, and conditions, please refer to the documentation included with your purchase or contact Edelbrock customer support directly.

Customer Support

For technical assistance, installation questions, or warranty claims, please contact Edelbrock customer support. Contact information can typically be found on the manufacturer's official website or on the product packaging.

Always provide your product model number (1792) and purchase date when contacting support.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question