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GPI 110612-03

GPI M-150 Series Fuel Transfer Pump User Manual

Model: 110612-03

Brand: GPI

Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your GPI M-150 Series Fuel Transfer Pump, Model 110612-03. This pump is designed for transferring gasoline (up to E15), diesel fuel (up to B20), and kerosene in mobile applications, typically from vehicle-mounted fuel tanks. It features a 15 GPM flow rate, 12-volt operation, an automatic shut-off nozzle, and an integrated filter kit.

Please read this manual thoroughly before using the product to ensure proper function and to prevent injury or damage.

Safety Information

Adhering to safety precautions is critical when operating fuel transfer equipment. Failure to follow these instructions may result in fire, explosion, electric shock, or other serious injury.

- Always read and understand the entire manual before installation or operation.
- Use this pump only with approved fuels: gasoline (up to E15), diesel fuel (up to B20), and kerosene. Do not use with water, corrosive liquids, or other unapproved fluids.
- Ensure proper electrical connections to a 12V DC battery. Incorrect wiring can cause damage or fire.
- Operate in well-ventilated areas to prevent the accumulation of flammable vapors.
- Keep sparks, open flames, and other ignition sources away from the pump and fuel transfer area.
- Wear appropriate personal protective equipment, including eye protection and gloves, when handling fuels.
- Do not overfill tanks. The automatic nozzle is designed to prevent overfilling, but always monitor the process.
- Regularly inspect all components, hoses, and connections for wear, damage, or leaks. Replace damaged parts immediately.
- Disconnect power before performing any maintenance or service.

Setup

Unpacking and Components

Carefully unpack all components and verify that all items are present:

- M-150S 15 GPM pump
- Automatic unleaded nozzle
- Dispensing hose
- Factory-installed power cord
- Filter with adapter and installation kit
- Telescoping suction pipe
- Tank adapter
- Fuse assembly
- Owner's manual (this document)



Image: All components included in the GPI M-150 Series Fuel Transfer Pump kit, including the pump, hose, nozzle, filter, and suction pipe.

Installation

The GPI M-150 pump is designed for easy installation, typically on a fuel tank. The spin collar mount and factory-installed power cord simplify the process.

1. **Mounting the Pump:** Securely attach the pump to your fuel tank using the provided tank adapter and spin collar. Ensure a tight, leak-free connection. The diecast aluminum housing is lightweight, reducing stress on the tank bung.
2. **Installing the Suction Pipe:** Assemble the telescoping suction pipe and insert it into the tank through the pump's inlet. Adjust its length to reach near the bottom of the tank without touching.
3. **Connecting the Filter:** Install the 10 micron, 1-12 UNF particulate filter with its adapter between the pump outlet and the dispensing hose. This filter removes debris that could damage your equipment.

4. **Attaching the Dispensing Hose and Nozzle:** Connect the dispensing hose to the filter outlet and then attach the automatic unleaded nozzle to the other end of the hose. Ensure all connections are secure.
5. **Electrical Connection:** Connect the factory-installed power cord to a 12V DC battery. Ensure the fuse assembly is properly installed in the positive lead. Connect the red wire to the positive (+) terminal and the black wire to the negative (-) terminal.



Image: The GPI M-150 Series Fuel Transfer Pump with automatic nozzle and filter kit, mounted on a truck bed fuel tank, ready for operation.

Your browser does not support the video tag.

Video: Detailed installation guide for the GPI M-150 Fuel Transfer Pump, covering mounting, hose connections, and electrical setup.

Operating Instructions

Fuel Compatibility

The GPI M-150 Series Fuel Transfer Pump is compatible with:

- Gasoline blends (up to E15)
- Diesel fuel blends (up to B20)

- Kerosene

Do not use this pump for water, chemicals, or other non-approved liquids.

Operating the Pump

1. Ensure the pump is securely mounted and all connections (suction pipe, filter, hose, nozzle, electrical) are tight and leak-free.
2. Verify that the suction pipe is fully immersed in the fuel source tank.
3. Insert the automatic unleaded nozzle into the receiving tank's fill port.
4. Turn on the pump. The pump will begin transferring fuel.
5. Monitor the fuel transfer process. The automatic nozzle is designed to shut off when the receiving tank is full, preventing overfilling.
6. Once transfer is complete and the nozzle has shut off, turn off the pump.
7. Carefully remove the nozzle from the receiving tank and the suction pipe from the source tank.
8. Return the nozzle to its lockable holder to protect it and deter theft.



Image: The GPI M-150 Series Fuel Transfer Pump, featuring the automatic shut-off nozzle and integrated filter.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your GPI M-150 Series Fuel Transfer Pump.

Filter Maintenance

The pump includes a 10 micron, 1-12 UNF particulate filter designed to protect your equipment from debris. Regularly inspect the filter for signs of clogging or damage. Replace the filter as needed to maintain optimal flow rates and pump efficiency.

Your browser does not support the video tag.

Video: Installation and maintenance guide for the GPI M-150 Fuel Transfer Pump and its filter kit.

Strainer Access

The pump features a unique strainer and poppet design that allows for easy access and maintenance. Periodically check and clean the strainer to prevent blockages that can reduce flow or damage the pump.

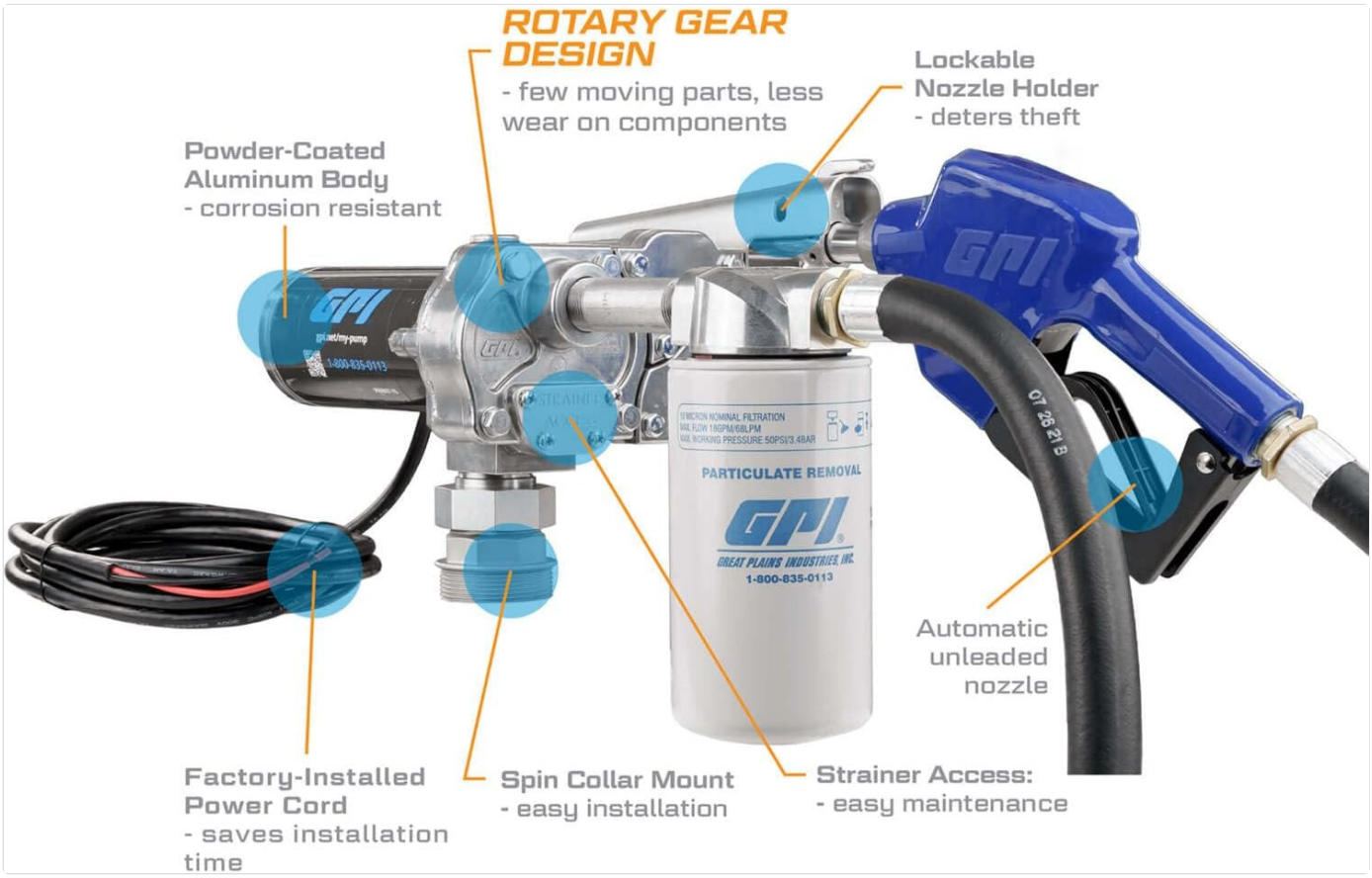


Image: A detailed view of the GPI M-150 pump with labels pointing out key features, including the strainer access point and the rotary gear design.

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Video: A short preview demonstrating the easy access to the pump's internal strainer for cleaning and maintenance.

General Care

- Keep the pump clean and free of dirt and debris.
- Inspect hoses and connections regularly for cracks, leaks, or damage. Replace any compromised components.
- Store the pump in a dry, protected area when not in use.

Troubleshooting

If you encounter issues with your GPI M-150 Series Fuel Transfer Pump, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Pump does not run	No power, blown fuse, loose electrical connection, low battery voltage.	Check battery connections, replace fuse, ensure battery is charged (12V DC).
Low flow rate	Clogged filter or strainer, kinked hose, suction pipe not fully immersed, air leak in suction line.	Clean/replace filter, clean strainer, straighten hose, ensure suction pipe is submerged, check for air leaks.

Problem	Possible Cause	Solution
Pump runs but no fuel transfers	No fuel in source tank, suction pipe not immersed, air leak in suction line, pump not primed.	Ensure fuel in tank, check suction pipe, seal air leaks, prime pump if necessary (refer to full manual).
Fuel leaks	Loose connections, damaged hose or seals.	Tighten all connections, inspect and replace damaged hoses or seals.

For more detailed troubleshooting or issues not listed here, please refer to the comprehensive owner's manual or contact GPI customer support.

Specifications

Brand	GPI
Model Number	110612-03
Flow Rate	Up to 15 GPM (57 Liters/minute)
Voltage	12 Volt DC
Compatible Fuels	Gasoline (up to E15), Diesel (up to B20), Kerosene
Material	Diecast Aluminum
Item Weight	29 pounds
Hose Length	12 feet
Filter	10 micron, 1-12 UNF particulate filter
Operation Mode	Automatic
Certifications	CSA, UL

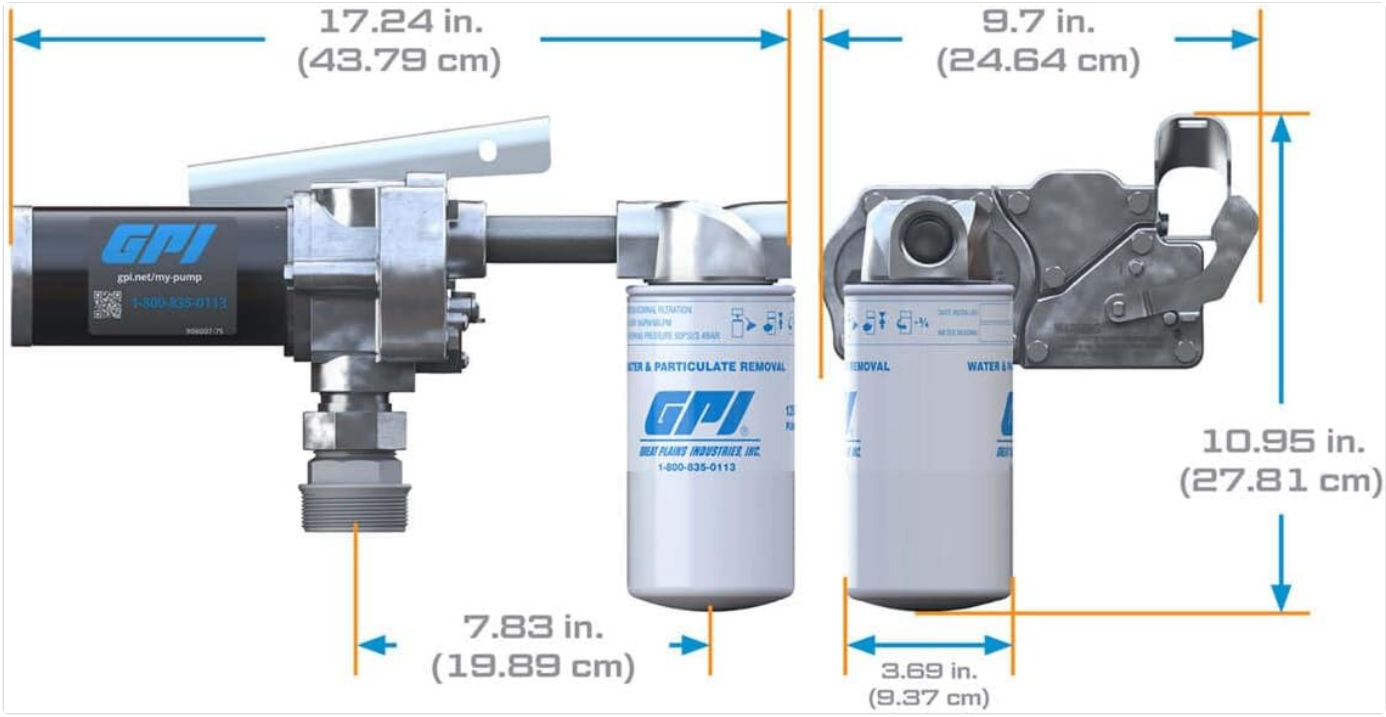


Image: Dimensional drawing of the GPI M-150 Series Fuel Transfer Pump, showing overall length, width, and height measurements.

Warranty and Support

For specific warranty details, including coverage period and terms, please refer to the warranty card included with your product or visit the official GPI website. Keep your purchase receipt as proof of purchase for any warranty claims.

If you require technical assistance, replacement parts, or have questions regarding your GPI M-150 Series Fuel Transfer Pump, please contact Great Plains Industries customer support. Contact information can typically be found on the product packaging, the GPI website, or in the full owner's manual.

Manufacturer: Great Plains Industries

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