



**Product Owner's Manual**  
Manual del propietario del producto  
Manuel du propriétaire du produit



# **M-150S Methanol**

**12V (DC)**

**Methanol Fuel Transfer Pump**

**Bomba de Transferencia de Combustible de Metanol**

**Pompe de Transfert de Carburant au Méthanol**

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**Models: M-150S Methanol**

**Thank you for choosing Great Plains Industries as your preferred brand! Our team places innovation, precision, and care into every product made, providing you with the best total value. This manual contains critical product information.**

Save these instructions and observe all safety information to prevent personal injury or property damage. See back cover for warranty and customer support details.

**DO NOT RETURN THIS PRODUCT TO THE STORE!**

Please contact Great Plains Industries, Inc. before returning any product. If you are missing parts, or experience problems with your installation, contact our Customer Support Department. We will be happy to assist you.

EN

**¡Gracias por elegir Great Plains Industries como su marca preferida! Nuestro equipo pone innovación, precisión y cuidado en cada producto fabricado, proporcionándole el mejor valor total. Este manual contiene información crítica del producto.** Guarde estas instrucciones y observe toda la información de seguridad para evitar lesiones personales o daños materiales. Consulte la contraportada para obtener detalles sobre la garantía y el soporte al cliente.

**¡NO DEVUELVA ESTE PRODUCTO A LA TIENDA!**

Comuníquese con Great Plains Industries, Inc. antes de devolver cualquier producto. Si le faltan piezas o experimenta problemas con su instalación, comuníquese con nuestro Departamento de atención al cliente. Estaremos encantados de ayudarle.

ES

**Merci d'avoir choisi Great Plains Industries comme votre marque préférée! Notre équipe place l'innovation, la précision et le soin dans chaque produit fabriqué, vous offrant la meilleure valeur totale. Ce manuel contient des informations critiques sur le produit.** Conservez ces instructions et respectez toutes les informations de sécurité pour éviter les blessures corporelles ou les dommages matériels. Consultez la couverture arrière pour obtenir des détails sur la garantie et le support client.

**NE PAS RENVoyer CE PRODUIT AU MAGASIN !**

Veuillez contacter Great Plains Industries, Inc. avant de retourner un produit. S'il vous manque des pièces ou si vous rencontrez des problèmes avec votre installation, contactez notre service d'assistance à la clientèle. Nous serons heureux de vous aider.

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**Call / Llamar / Appel: 800-835-0113 or 316-686-7361**

**Email: [gpsales@gplains.com](mailto:gpsales@gplains.com)**

**Website: [gpi.net](http://gpi.net)**

**SAVE / GUARDAR / CONSERVEZ**

Model / Modelo / Modèle #: \_\_\_\_\_

Serial / Serie / Série #: \_\_\_\_\_

Date / Fecha / Date: \_\_\_\_\_

## BEFORE YOU BEGIN

### **Fuel Compatibility Statement**

- This fuel pump is designed, tested and approved for use with methanol. Please take all due precautions when handling this flammable liquid
- Do not use this pump for dispensing any fluids other than those for which it was designed. To do so may damage the pumps components and will void the warranty.

### **Power Source Requirements:**



- This manual covers 12 volt DC electric gear pump model M-150S Methanol.
- Model M-150S Methanol should be connected to a 12-volt DC power source.
- Do not attempt connection of any pump to a 115-volt AC or 230-volt AC power source.

### **Tools Needed:**

- Adjustable Wrench, Pipe Wrench, Pliers, Utility Knife, Wire Crimper/Stripper, and Thread Tape

## UNPACKING

### **Shipping Damage Check**



- After unpacking the unit, inspect carefully for any damage that may have occurred during transit. Check for loose, missing or damaged parts. Shipping damage claims must be filed with carrier. Review General Safety Instructions and all Caution, Warning, and Danger statements as shown.

### **Contents:**



- (1) 12-volt DC Fuel Transfer Pump with Spin Collar, (1) Gasket and (1) Tank Adapter
- (1) 18 foot (5.5 m) Power Cord with (1) Fuse Assembly, (2) Ring Terminals and (1) Wire Connector
- (1) Lockable Nozzle Holder

## GENERAL SAFETY INSTRUCTIONS

**IMPORTANT:** It is your responsibility to:

- Know and follow applicable national, state and local safety codes pertaining to installing and operating electrical equipment for use with flammable liquids.
- Know and follow all safety precautions when handling petroleum fuels.
- Ensure that all equipment operators have access to adequate instructions concerning safe operating and maintenance procedures.

Observe all safety precautions concerning safe handling of petroleum fuels

### SYMBOLS



Description of imminent hazard and failure to avoid hazard will result in death.



Description of hazard and possible resulting injuries or death.



Description of hazard and possible resulting injuries.



This symbol indicates a general warning to the user. See additional specific warnings.



This symbol indicates electrical shock hazard. Follow proper installation and maintenance instructions in this manual.



This symbol indicates hot surface. Take care to avoid coming into contact with hot surface.



Owner's manual must be read before using, inspecting, or servicing this product.



Disconnect power when product is unattended or in the case of a malfunction. Disconnect power before any inspection, servicing, or maintenance.



To prevent physical injury or property damage, observe precautions against fire or explosion when dispensing fuel. Do not operate the system in the presence of ignition sources such as, but not limited to: open flames, lighted cigarettes, running or hot engines, gas or electric heaters.



## GENERAL SAFETY INSTRUCTIONS (CONTINUED)

### SAFETY WARNINGS

#### **⚠ DANGER**

To prevent physical injury or property damage, observe precautions against fire or explosion when dispensing fuel. Do not operate the system in the presence of any source of ignition including running or hot engines, lighted tobacco products, gas or electric heaters, or any type of electronic device. A spark can ignite fuel vapors.

#### **⚠ DANGER**

Observe precautions against electrical shock when operating the system. Serious or fatal shock can result from operating electrical equipment in damp or wet locations.

#### **⚠ DANGER**

Observe precautions against electrical shock when servicing the pump. Always disconnect power before repairing or servicing. Never apply electrical power to the system when any of the cover plates are removed.

#### **⚠ WARNING**

To ensure safe operation, all fuel transfer systems must be properly grounded. Proper grounding means a continuous metal-to-metal contact from one component to the next, including tank, tank mount, pump, meter, filter, hose and nozzle. Care should be taken to ensure proper grounding during initial installation and after any service or repair procedures. For your safety, please take a moment to review the warnings below.

#### **⚠ WARNING**

Inspect external pump wiring regularly to make sure it is correctly connected. To avoid electrical shock, use extra care when connecting the pump to power.

#### **⚠ WARNING**

Avoid prolonged skin contact with petroleum fuels. Use protective goggles, gloves and aprons in case of splashing or spills. Change saturated clothing and wash skin promptly with soap and water.

#### **⚠ WARNING**

Securely fasten all wetted connections with the proper use of O-rings, or pipe sealant and thread tape. Leaking fuel may cause the potential for fire and explosion.

#### **⚠ WARNING**

Pump models that may be used in aviation refueling (PO/PX models) are NOT supplied with appropriate hose, nozzle, and suction pipe. These items must meet NFPA 407 guidelines.

For ground-based refueling only. Do not use in or on the aircraft. For use with aviation gasoline (AVGAS 100LL) and Jet A. User should consult NFPA 407 Standard for Aircraft Fuel Servicing for safety requirements during ground fuel servicing of aircraft using liquid petroleum fuels. This product has no actual or implied compliance with this standard.

#### **⚠ CAUTION**

If using solvent to clean pump components or tank, observe the solvent manufacturer's recommendations for safe use and disposal.

**EN**

GETTING STARTED

## SPECIFICATIONS

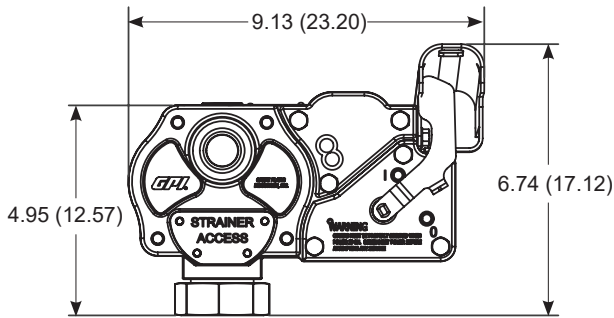
	M-150S-METHANOL
Housing Material	Lightweight, corrosion-resistant, nickel plated, cast aluminum body, convenient union ring for easy installation.
Pump Rate	Up to 15 GPM (57 LPM)
Duty Cycle	30 minute ON, 30 minute OFF
Suction Lift	Manual Nozzle: Up to 5.5 ft. (1.7 m) Automatic Nozzle: Up to 4.8 ft. (1.5 m)
Operating Temperature	-20° F to 125° F (-29° C to 52° C)
Operating Pressure	15 PSI (103.42 kPa)
Input	12-volt DC
Current Draw	18 amps
Motor	1900 RPM, 1/5 hp (150 watts)
Motor Approval	cULus Listed, Class I Div 2
Motor Protection	20 amp circuit breaker
Cord	18 ft. of 12 ga. (5.5 m)
Fuse	25 amp
Tank Adapter (Item D)	2 inch NPT
Inlet	1 inch NPT
Outlet	3/4 inch NPT

SAFETY /  
SPECIFICATIONSASSEMBLY /  
INSTALLATION

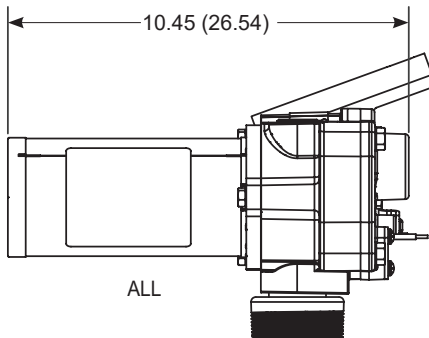
OPERATION

MAINTENANCE

## SPECIFICATIONS (CONTINUED)



M-150S-Methanol

**Figure 1**  
in (cm)

## INSTALLATION INSTRUCTIONS

### **⚠ WARNING**

Coverplates protect the operator from moving parts. Never operate the pump without coverplates in place. Never apply electric power to the pump without coverplates in place. Always disconnect power before repairing or servicing

### **⚠ DANGER**

If the pump is to be installed in a hazardous (classified) location, it must be installed by a licensed electrician and conform to all National, State, and Local codes. Including, but not limited to; NEC/CSA 22.1/ANSI/IEC/NFPA 70, 30, and 30A. You, as the owner, are responsible for seeing that the installation and operation of your pump complies with all applicable codes. Rigid conduits must be used to install wiring. Note that the lead wires are factory-sealed, isolating the motor from the junction box. Failure to follow these wiring instructions may result in death or serious injury from shock, fire or explosion.

**NOTE:** This pump is designed to self-prime with dry gears. Expect suction lift as follows:

Manual Nozzle: 6.7 feet (2.1 m) with Methanol

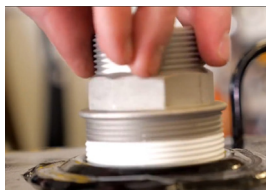
Automatic Nozzle: 5.8 feet (1.8 m) with Methanol

If you require a greater initial prime height, coat the gears with fluid by removing the plug on the top of the pump and pour a small quantity of motor oil into the gear cavity. Replace the plug and try again. A foot valve with pressure relief may be needed to maintain prime.

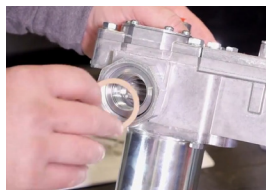
### **Install Tank Adapter and Suction Pipe**

**NOTE:** For Aluminum Tank Installation - To prevent thread galling of aluminum fittings, always prepare the threads for assembly using an anti-seize compound such as Loctite® 567™, Herson® Driptop® 940 or equivalent.

1. Clean the tank interior of all dirt and foreign material.
2. For the suction pipe, a 1 in. steel pipe cut to length and threaded on one end may be used. Suction pipe should extend to within 3 inches of tank bottom.



**Figure 2**



**Figure 3**



**Figure 4**



**Figure 5**



## INSTALLATION INSTRUCTIONS (CONTINUED)

3. Wrap the threaded end of suction pipe with three or four turns of thread tape (see Figure 4). Thread the suction pipe into the bottom of the adapter and hand tighten until snug.

### **Install Pump on Tank**

**(for all models except M-150S-EM & M-150S-E-PO)**

1. Clean the tank interior of all dirt and foreign material.
2. Carefully lift pump / suction pipe assembly and insert suction pipe into the tank opening.

While holding the spin collar gasket in place, position the pump spin collar onto the tank adapter and tighten using a pipe wrench, making sure the spin collar is not cross-threaded (see Figure 6). The spin collar measures 2.26 inches (5.74 cm) across flats.

**NOTE:** To prevent pressure buildup and possible fuel leaks, make sure the fuel tank is properly vented. A vent cap rated at 3 psi (6.90 kPa) or less is recommended.



**Figure 6**

## INSTALLATION INSTRUCTIONS (CONTINUED)

### Install Hose and Nozzle

**NOTE:** Hose and nozzle not supplied. Owner must supply accessories suitable for methanol.

1. Using pliers, remove the plastic plug from outlet port on front of pump. Wrap one end of the dispensing hose with three to four turns of thread tape and thread into outlet port (see Figure 7). Tighten securely using an adjustable wrench.
2. Wrap opposite end of hose with three or four turns of thread tape and thread into nozzle. Tighten securely using an adjustable wrench (see Figure 8).
3. Place the nozzle into the nozzle holder on the end of the pump motor housing. Note that the nozzle cannot be placed in the holder unless the pump switch is OFF (see Figure 9).



**Figure 7**



**Figure 8**



**Figure 9**

## INSTALLATION INSTRUCTIONS (CONTINUED)

### Connect to a Power Source

**NOTE:** Please consult the Owner's Manual for your vehicle before proceeding.

**IMPORTANT:** The pump is designed for use with a 12 Volt DC power source. Do not attempt installation on a 115 or 230 Volt AC system.

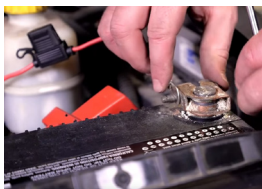
#### **⚠ WARNING**

*Do not attempt to power the pump from vehicle wiring smaller than the cord gauge specified in the owners manual such as the cigarette lighter wire, as improperly sized wires could overheat and cause a fire.*

**IMPORTANT:** Verify switch is in OFF position, then route the electrical wires to the source of the vehicle power system. Be sure to support the wires as necessary and protect them from sharp edges, heat, or anything that could damage the wires.

1. Remove electrical coverplate.
2. Insert the power cord through the 1/2 inch NPT connection on the back of the pump. Using wire nuts, connect the black wire to the black wire and the red wire to the red in the pump's electrical cavity. Position the wires inside the electrical cavity and tighten the strain relief grip securely. Make sure surfaces are clean. Install the electrical coverplate and tighten securely.
3. If the power cord provided is too long, disconnect from power and cut to desired length. Using a utility knife, carefully strip 3 to 4 inches (7.62 to 10.16 cm) of outer insulation from end of power cord. **DO NOT CUT INSULATION OF INNER WIRES.** Next, using wire strippers, remove 1/4 inch (6.35 mm) of insulation from the black and red power cord wires.
4. For a negative ground system, first disconnect the vehicle's ground wire, and then connect as follows: Using a wire stripper, carefully strip 1/4 inch (6.35 mm) of insulation from both ends of the fuse assembly wire.
5. Insert one end of the fuse assembly wire into the wire connector and crimp. Insert the red power cord wire into the other end of the wire connector and crimp. Make sure the fuse assembly is positioned outside of hazardous areas and as close to the battery as possible (see Figure 10).
6. Using wire crimper, attach one ring terminal to the other end of the fuse assembly and one ring terminal to the end of the black power cord wire.
7. Connect the red wire/fuse assembly to the positive side of the battery (see Figure 10).
8. Connect the black power cord wire to the negative side of the battery.

**NOTE:** Connecting directly to the battery terminal or the end of the battery cable is recommended.



**Figure 10**

## OPERATION

**IMPORTANT:** Always follow safety precautions when operating this equipment. Review the safety instructions.

### **⚠ DANGER**

*To prevent physical injury or property damage, observe precautions against fire or explosion when dispensing fuel. Do not operate the system in the presence of any source of ignition including running or hot engines, lighted tobacco products, gas or electric heaters, or any type of electronic device. A spark can ignite fuel vapors.*

### **⚠ CAUTION**

*Before each use, repair leaks around seals or connections. Make sure hoses are in good condition and connections are tight. If damaged, replace hoses before use.*

**NOTE:** Make sure the work area is dry.

### **⚠ WARNING**

*Make sure the pump is properly grounded. Repair any corroded or damaged wiring before use.*

**NOTE:** Ensure the tank contains enough fuel.

**IMPORTANT:** Make sure the fuel is not contaminated with debris. Tighten loose tank lids regularly.

### **Dispensing Fuel**

Turn on the pump by removing the nozzle from the holder and pushing up the switch lever. Insert the nozzle into the receiving tank and squeeze the handle to start fuel flow. When done, release the nozzle handle, turn the pump off and return the nozzle to its holder.

**IMPORTANT:** This pump is designed to be self-priming. If fuel is not delivered within 15 to 20 seconds, turn the pump off and refer to priming information in the Troubleshooting Section on our website.

### **⚠ CAUTION**

*An automatic bypass valve prevents pressure build up when the pump is on with the nozzle closed. To avoid pump damage, do not run the pump more than 10 minutes with the nozzle closed. Leaving the pump on with the nozzle closed for more than 10 minutes can damage the pump components and will void the warranty.*

### **⚠ CAUTION**

*Never leave the pump running without fluid. Dry running can damage the pump components, and will void the warranty.*

**IMPORTANT:** This is an intermittent duty pump, after running the pump for a maximum of 30 minutes, allow it to cool for 30 minutes.

### **Motor Protector**

**NOTE:** The M-150S pumps have a motor protector that provides added protection against motor damage. It must be reset manually.

1. If the motor protector trips, reset by turning the switch OFF. Let the pump cool then turn ON again. If the motor protector trips again, see the Troubleshooting Section on our website.

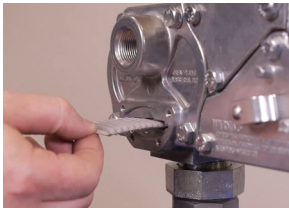
## MAINTENANCE

**NOTE:** This pump is designed for minimum maintenance. The motor bearings are self-lubricating. Inspect the pump and components regularly for fuel leaks and make sure the hose and power cord are in good condition. If damaged, replace before use. Keep the pump exterior clean to help identify leaks.

**IMPORTANT:** Do not use this pump for water, chemicals or herbicides. Dispensing any fluid other than those listed in the owner's manual may damage the pump (see BEFORE YOU BEGIN: Fueling Compatibility Statement at front of the owner's manual). Use of the pump with unauthorized fluids will void the warranty.

### **Clean or Replace Strainer**

1. Turn the pump off and disconnect from power. Remove the strainer coverplate. Remove the inlet strainer and inspect for damage or clogs (see Figure 11). Clean the strainer with a soft-bristled brush and solvent (see Figure 12). If the strainer is very dirty, compressed air may be used. If damaged, replace the strainer.
2. Place the strainer in the cavity. Clean the coverplate and O-ring. Coat the O-ring lightly with grease. Ensure the coverplate O-ring is properly seated (see Figure 13) and tighten the strainer coverplate.



**Figure 11**



**Figure 12**



**Figure 13**

## MAINTENANCE, TROUBLESHOOTING, AND REPAIR (CONTINUED)

Scan the QR code below for more maintenance,  
troubleshooting, and repair resources.

**EN**

Escanee el código QR a continuación para obtener más  
recursos de mantenimiento, solución de problemas y  
reparación.

**ES**

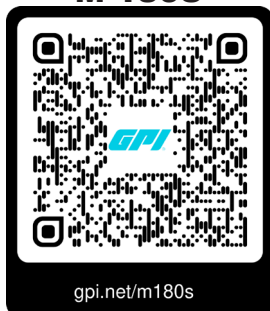
Scannez le code QR ci-dessous pour accéder à des  
ressources supplémentaires sur la maintenance, le  
dépannage et la réparation.

**FR**

### M-150S



### M-180S



### M-240S



**NOTES/ NOTAS/ REMARQUES**

[illegible]



## Limited Warranty Policy

Great Plains Industries, Inc. hereby provides a limited warranty against defects in material and workmanship on all products Great Plains Industries, Inc. manufacturers. The warranty period shall begin on the date of purchase confirmed with the original purchase receipt or, if not available, the date of manufacture. Manufacturer's sole obligation under the following warranties will be limited to either, at Manufacturer's option, replacing or repairing defective goods. If the product is no longer available, replacement may be made with a similar product of equal or greater value. Buyer's exclusive remedy for breach of any such warranties will be enforcement of such obligations of Manufacturer. The warranty shall extend to the purchaser of this product and to any person to whom such product is transferred during the warranty period.

### Warranty shall not apply if:

The product has been subjected to neglect, misuse, abuse or damage or has been installed or operated other than in accordance with the manufacturer's operating instructions or the product has been altered or modified outside the warrantor's duly appointed representative.

**Product components considered wear items, i.e. vanes, etc., are NOT included within the scope of this warranty.**

Charges for shipping and insuring packages to Great Plains Industries, Inc. are the customer's responsibility. Great Plains Industries, Inc. will ship the warranted product back to the customer via ground shipping free of charge for shipments within the United States. International shipping charges and customs fees to and from Great Plains Industries, Inc. are the customer's responsibility.

GREAT PLAINS INDUSTRIES, INC., EXCLUDES LIABILITY UNDER THIS WARRANTY FOR DIRECT, INDIRECT, INCIDENTAL AND CONSEQUENTIAL DAMAGES INCURRED IN THE USE OR LOSS OF USE OF THE PRODUCT WARRANTED HEREUNDER.

THE COMPANY HEREWITH EXPRESSLY DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OTHER THAN FOR WHICH IT WAS DESIGNED.

THIS WARRANTY GIVES YOU SPECIFIC RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM U.S. STATE TO U.S. STATE.

In compliance with MAGNUSON MOSS CONSUMER WARRANTY ACT - PART 702 (governs the resale availability of the warranty terms)

**To obtain warranty service,  
contact Product Support:**

**800-835-0113**

Technical experts will guide you through a troubleshooting process to determine appropriate corrective actions.

### The following respective warranty periods apply:



**FIVE-YEAR WARRANTY** applies to the following product families:

**GPRO® Fluid Transfer Pumps:**  
V25-012, V25-024, V20-115,  
V20-230, PRO35-115

**GPRO® Remote Dispensers:**  
QM40-RD

**GPRO® Fuel Meters:** QM40

**GPI® Fuel Meters:** M30



**TWO-YEAR WARRANTY** applies to the following product families:

**GPI® Fluid Transfer Pumps:**  
G8P, EZ8, M-150S, M-180S,  
M-240S, G20-012\*, M-1115S,  
P-200, PA-200, P-200H, PA-200H,  
HP-100, DP-20, RP-10

**GPI® Fluid Meters:**  
01A, 01N, FM-300H,  
LM51DN, LM-300



**ONE-YEAR WARRANTY** applies to the following products:

**GPI® Oil Transfer Pumps:**  
L5020, L5116, L5132



**90-DAY WARRANTY** applies to the following products:

**GPI® Fluid Transfer Hand Pumps:**  
RP-5, BP-12, LP-50

**90-DAY WARRANTY** applies to Spare Parts, Kits and Accessories including Nozzles\*, Hoses, Swivels, Vent Caps, Filter Adapters, etc.

**90-DAY WARRANTY** applies to Factory Repairs from repair date or the balance of the original warranty whichever is longer.

*\*Extended warranty coverage available on select products.*

Requires registration of product with manufacturer.

Visit [greatplainsindustries.com/register-your-product](http://greatplainsindustries.com/register-your-product)



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[GreatPlainsIndustries.com](http://GreatPlainsIndustries.com)