

FILL-RITE[®]

A GORMAN-RUPP COMPANY

FR8 SERIES FUEL TRANSFER PUMPS

Installation and Operation Manual



MADE IN
USA 
WITH GLOBAL MATERIALS

GR
GORMAN-RUPP
COMPANY

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Thank You!

Thank you for your loyalty to the Fill-Rite® brand of fuel transfer pumps. Your safety is important, so please read and thoroughly understand the procedures set forth in this manual. In addition, please save these instructions for future reference and record the model, serial number, and purchase date of your fuel transfer pump. Protect yourself as well as those around you by observing all safety instructions and adhering to all danger, warning, and caution symbols. Please register your Fill-Rite® product via info.fillrite.com/product_registration.

IMPORTANT RETURN POLICY

Please do not return this product to the store. For all warranty and product questions, please contact Fill-Rite Technical Support at 1 (800) 720-5192 or via email at FillRiteTech@fillrite.com (M-F, 8 AM – 5 PM ET).

MODEL#	
SERIAL#	
PURCHASE DATE:	

Warranty Policy

Fill-Rite Company warrants that the FR8 Series shall be free from defects of materials and workmanship for a period of 2-years from the date of purchase confirmed with the original purchase receipt or, if not available, the date of manufacture and 1-year warranty on all accessories such as the nozzle and hose.

FR8 Series Fuel Transfer Pumps Have the Following Features

- **Elite Endurance**
The FR8 Series has a 15 minutes on, 15 minutes off duty cycle
- **Peace of Mind**
The FR8 Series' thermally-protected motor shuts down if it gets too hot, so you never have to worry about it overheating
- **Long-Lasting Durability**
Heavy-duty, cast-iron construction outlasts daily wear and tear in harsh weather
- **True 8 GPM Performance**
Delivers the same performance as gas station pumps, making it ideal for filling equipment with 2–25-gallon fuel tanks
- **Proven Reliability**
Fill-Rite's reliable rotary vane technology maintains optimal clearances and consistent performance over the entire life of the pump
- **Ultra Lightweight**
Weighing under 13 pounds, the FR8 Series' compact and lightweight design reduces stress on your transfer tank
- **Theft Prevention**
Lockable power switch deters theft when leaving your pump unattended at the trailhead or on the side of the road

About This Manual

From initial concept and design through final production, your Fill-Rite fuel transfer pump is built to provide years of trouble-free use. To ensure the safety of yourself and those around you, it is critical that this manual is read in its entirety prior to attempting to install or operate your new purchase. We strongly urge that any installer and operator become familiar with the terms, diagrams, and technical data in this manual and pay close attention to warning symbols and definitions. At Fill-Rite, your satisfaction with our products is paramount. If you have questions or need assistance with your product, please contact Fill-Rite Technical Support at 1 (800) 720-5192 (M-F, 8am-5pm ET).

Symbols and Definitions

NOTICE	Indicates information considered important but not directly hazard related.
CAUTION	Indicates a hazardous situation which, if not avoided, could result in moderate or minor injury.
WARNING	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
DANGER	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

Before You Begin

Fueling Requirements

The Fill-Rite FR8 Series is designed for use with the following flammable and combustible fluids: gasoline and gasoline blends up to 10% or E10, diesel, biodiesel blends up to 20% or B20, and kerosene. Please take all necessary precautions when handling flammable liquids.

Power Source Requirements

12V DC supply line power is required to operate the FR8 Series. The pump motor nameplate located on the switch lever plate will provide detailed electrical information. Please refer to the appropriate electrical instructions found starting on page 6.

Items that may be needed for installation:

Pipe wrench 14-24", 3mm Allen wrench, 1/2" and 5/16" open end wrench or socket, 12" adjustable wrench, utility knife, wire cutters, wire stripper/crimper, and thread sealant.

NOTE: Fill-Rite provides Teflon[®] tape for all models. If alternative sealant is used, it must be rated for the fuel being transferred.

Safety Information

To ensure a safe installation and proper equipment operation, please read, understand, and adhere to all **DANGER/WARNING/CAUTION** and other **NOTICES**.

NOTICE	<p>A filter should be used on the pump outlet to avoid contamination into the vehicle or equipment's fuel tank. We recommend either a Fill-Rite F2510PMO or F2510HMO filter for best results.</p> <p>To prevent fuel storage tanks from shifting or tipping, refer to tank manufacturer's guidelines on proper anchoring.</p>
CAUTION	<p>Threaded pipe joints and connections must be sealed with the appropriate sealant or sealant tape to prevent leaks.</p> <p>All Fill-Rite pump models are equipped with thermal overload protection by which the motor will shut off to prevent heat damage. If motor is turned off by a thermal overload, turn the switch lever to the OFF position. Once the motor has cooled sufficiently, turn the switch lever to the ON position to resume fuel transfer.</p>

Safety Information (continued)

⚠ WARNING

Electrical wiring should **ONLY** be performed by a licensed electrician in compliance with all local, state, and national electrical codes (NEC/ANSI/NFPA 30, NFPA 30A, and NFPA 70) as appropriate for the intended use of a Fill-Rite fuel transfer pump.

Threaded rigid conduit, sealed fittings, and conductor seal should be used where applicable and as defined by these codes.

This product must be properly bonded or grounded to avoid the build up of static electricity when handling flammable products. Static discharge may ignite vapors causing serious injury or death.

Fill-Rite pumps are not suited for use with water or fluids intended for human consumption. Do not use to fuel aircraft.

To minimize static electricity build up, keep the nozzle in contact with the container being filled at all times during the filling process. Use only static wire conductive hose when pumping flammable liquid.

Improper mechanical installation or use can result in serious injury or death.

⚠ DANGER

Never smoke around or near a fuel tank or transfer pump. Open flames or a spark when pumping a flammable liquid will result in a fire. Improper electrical wiring or installation will result in serious injury or death.

Installation

Your Fill-Rite FR8 Series fuel transfer pump is design to be mounted on a fuel tank via a threaded NPT inlet flange supplied with the pump itself. A typical installation is show in Diagram 1.

⚠ CAUTION

Do not use additional check valves or foot valves unless they have a proper pressure relief valve built into them. Please be aware that additional check valves will reduce flow rates.

A pressure vent fill cap can be used to reduce fuel loss through evaporation.

Threaded pipe joints and connections must be sealed with the appropriate sealant to prevent leaks.

Use caution to prevent cross-threading during installation which can cause damage to either or both the inlet flange as well as storage tank bung.

NOTICE

In all tank applications, be sure the tank is properly secured per tank manufacturer's guidelines.

Mobile Tank

For mobile fuel tanks, the pump mounts to the tank bung by way of the pump inlet flange.

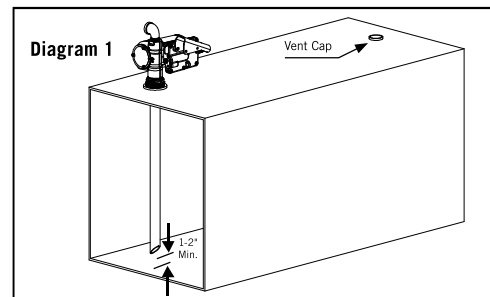
For Telescoping Steel Suction Pipe

Allow telescoping tube to extend fully to the bottom of the tank.

For Custom Suction Pipe

To avoid penetrating the tank, we recommend leaving a minimum of 1-2" of the pipe off the bottom of tank. We further recommend cutting the suction pipe to a 30-45 degree angle for improved flow.

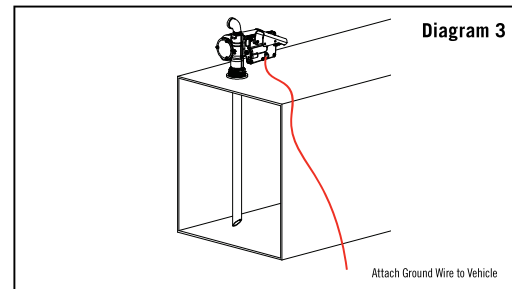
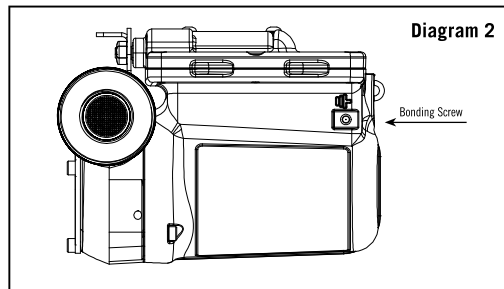
The mobile tank must be equipped with a vent cap. (Diagram 1)



Instructions Before Proceeding with DC Wiring

The pump needs to be electrically bonded to a vehicle frame for mobile tanks or a grounding rod for stationary tanks. To electrically ground pump for mobile application insert green screw through eyelet of furnished green bonding wire assembly and fasten it securely to the junction box (Diagram 2).

The other end of the wire is to be stripped of insulation and the bare wire securely bonded to the vehicle or on/off road trailer frame for mobile tanks (Diagram 3).



Installation, Mechanical Procedure

Step 1: Install suction pipe onto inlet bung adapter.

Telescoping Section: 14" - 23-11/16" Inches. (For use in tanks 14" - 27" deep. For tanks greater than 27" deep, use provided extension. For tanks greater than 36.5" deep, use custom pipe).

Extension Section: 13- 3/4" Inches. If extension section is used then thread sealant must be used on both ends of the pipe.

- A. Retrieve inlet bung adapter and 3-piece suction pipe (2-piece telescoping and 1-piece extension).
- B. When the extension piece is used with the telescoping section, the length is 27-3/4" - 36-7/8".

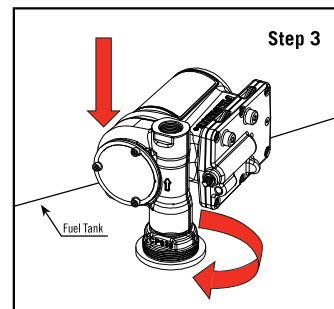
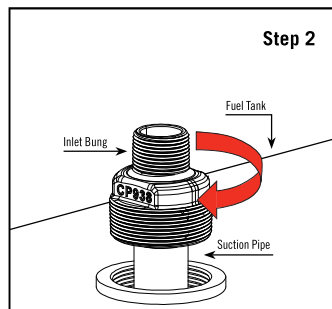
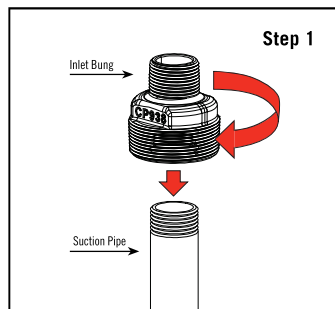
C. Measure tank size then use the appropriate length.

D. Attach the suction pipe to the inlet bung adapter. Thread suction pipe into the inlet bung 1.5 to 2.5 turns past hand tight with a pipe wrench.

Step 2: Thread inlet bung with attached suction pipe onto fuel tank 1.5 to 2.5 turns past hand tight.

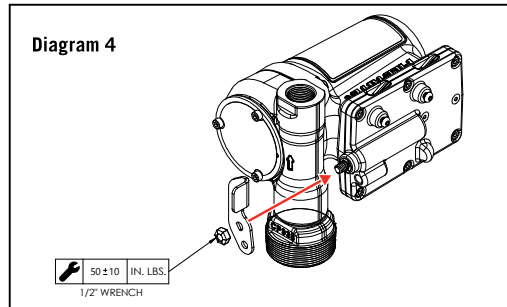
Step 3: Place inlet of FR8 Series pump housing onto the inlet bung and tighten, 1.5 to 2.5 turns past hand tight.

⚠ CAUTION Threaded pipe joints and connections must be sealed with the appropriate sealant to prevent leaks for fuel transfer.



Switch Lever Installation Instructions

The fuel transfer pump on/off switch lever will need to be installed in the field. Please see Diagram 4 for a visual guide on the proper installation of this lever.



Installation, Electrical 12V DC Wiring Instructions

⚠ DANGER

Electrical wiring should be performed **ONLY** by a licensed electrician in compliance with local, state, and national electrical codes (NEC/ANSI/NFPA 30, NFPA 30A, and NFPA 70) as appropriate to the intended use of the pump. Threaded rigid conduit, sealed fittings, and conductor seal should be used where applicable. The pump must be properly grounded. Improper installation or use of this pump can result in serious personal injury or death.

Do not connect the positive or negative power to the green ground/earth screw or ground/earth wire as this could cause a fire.

Do not attempt to power the pump from vehicle wiring smaller than 16 AWG such as the cigarette lighter wire because these thin wires could overheat and cause a fire.

For wiring up to upfitter switches, please contact Fill-Rite Technical Support at 1 (800) 720-5192 (M-F, 8am-5pm ET).

⚠ CAUTION

Fill-Rite DC fuel pumps are designed to operate at the rated voltage on the nameplate. The FR8 Series is rated for 12V DC. Regardless of how supply line power is provided (i.e. via a battery or hard line), Fill-Rite requires a 20 amp fuse within the circuit to prevent against electrical shorts.

Voltage drop in wiring varies depending on the distance from the battery to the pump and the gauge of the wire used. If the distance is greater than the supplied 15' 14 AWG power cable*, refer to local, state, and national electrical codes to ensure the wire is of the correct size for this application.

**14 AWG cable not supplied with pump only models*

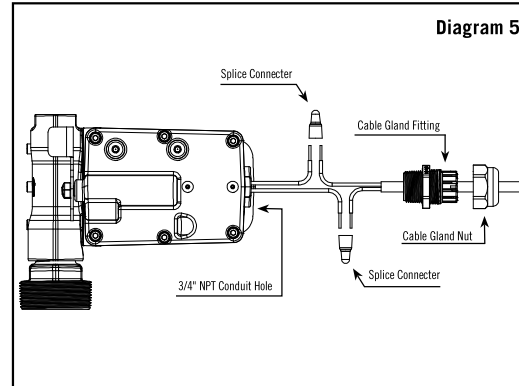
NOTICE

Electrical bonding is the process of connecting metallic parts such as a fuel storage tank or transfer pump which may be exposed to electrical faults to a grounding conductor to ensure a low-resistance path to the ground. Bonding also provides a path for static electricity and induced voltages to drain out through the grounding path. The most common way to bond is with a copper wire.

If the intention is to operate either a 12V DC fuel transfer pump from a power supply other than a vehicle battery system, please contact Fill-Rite Technical Support at 1 (800) 720-5192 (M-F, 8am-5pm ET)

DC Wiring Instructions

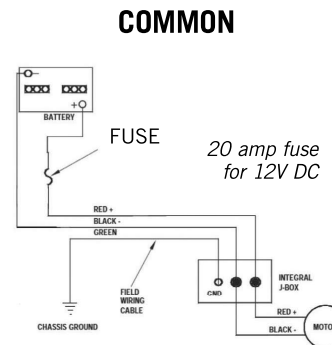
1. Pull the 2 recessed wires from the rear conduit entry of the motor cavity (see Diagram 5). These wires will be cut via an offset with the **RED** wire being longer than the **BLACK** wire. Straighten any frayed ends and prepare the wire to be attached to the power cable. **DO NOT CUT OR SHORTEN THESE WIRES.**
2. Take the provided power cable and locate the end with the offset black and red wires. These wires have been cut at different lengths with **BLACK** being longer than the **RED.**
3. Feed the cable end with offset wires through cable gland fitting with the threads nearest to the end of these wires (3" or closer). For easier installation, ensure the cable gland nut is removed from the cable gland fitting (see Diagram 5). Move the cable gland cap nut inward on the power cable, if necessary.
4. Join the like color wires together and crimp with electrical crimping tool.
5. Push the joined wires into the motor enclosure conduit hole. You will need to use the cable gland fitting to complete this step. Refer to the Cable Gland Installation Video on Fill-Rite's YouTube Channel for more information. The intention of this installation method is to avoid removing the external motor switch plate cover for an internal connection.
6. Screw the cable gland fitting to the conduit hole flush to the hex.
7. Screw the cable gland cap onto the fitting to secure the cable itself.



Mobile Tank Wiring to a Vehicle Electrical System, Negative Ground (Common)

1. Before electrical installation, place the switch lever into the **OFF AND LOCKED** position to prevent accidental spillage once power is engaged to the motor.
2. Pass the electrical wires to the source of the vehicle power system, supporting as necessary and protecting them from sharp edges, heat, or anything that could cause damage.
3. A negatively grounded system is common within most vehicles utilizing a 12V DC power source. In this instance, the positive (+) battery terminal supplies power to all devices such as the ignition system. While the negative (-) terminal is connected to the vehicle chassis.
4. The red wire from the pump will connect to the positive (+) battery post and the black wire will connect to the negative (-) battery post.
5. If this circumstance is not present in the vehicle, please contact Fill-Rite Technical Support at 1 (800) 720-5192 (M-F, 8am - 5pm ET). Otherwise, please continue with these instructions.
6. Fill-Rite requires installing a 20 amp fuse holder and fuse (not provided) for protection of the purchased pump. Attach one end of the fuse holder to the end of the red wire, with the opposite end to the (+) positive battery terminal.

The fuse is to be located as close as possible to the power source. If the wiring to the pump is greater than 15', refer to the applicable Electrical Code (national, international, or local) to ensure the wire is of the correct size for the application (see figure below).



Wiring to a Non-Vehicle Electrical System

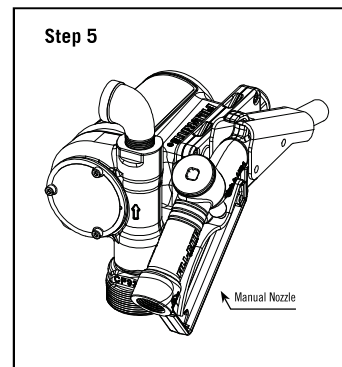
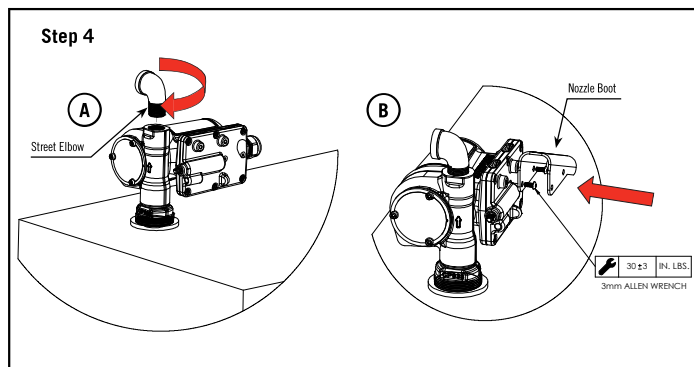
While rare, there are instances where a 12V DC Fill-Rite fuel pump is utilized in a stationary application. We recommend calling Fill-Rite Technical Support at 1 (800) 720-5192 (M-F, 8am-5pm ET) to discuss your specific situation. Most of these applications will require equipment not supplied by Fill-Rite. In addition, we want to ensure that the circuit will be able to handle the necessary power requirements of the pump.

Installation, Mechanical Procedure (continued)

Step 4: The following mechanical installation should be done after the electrical installation:

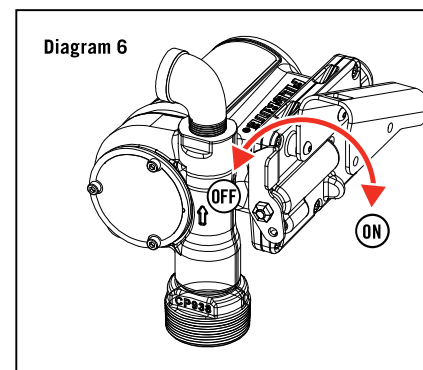
- A. Insert 3/4" street elbow on the outlet of the pump housing. Use appropriate sealant for fuel transfer.
- B. Nozzle boot is attached to the switch plate via 2 bolts torqued to 30 in-lbs.

Step 5: Attach manual nozzle. Optional: Security Lock (see Page 9).



Operation Instructions

1. If equipped, with a meter, reset to "0" (do not reset while in use as this will cause damage to the meter).
2. If equipped with a lock, remove from switch lever.
3. Remove dispensing nozzle from nozzle boot.
4. Move the switch lever to the "ON" position to power the pump (Diagram 6).
5. Insert the dispensing nozzle into the container to be filled.
6. Operate the nozzle to dispense fluid; release nozzle when the desired amount of fluid has been dispensed.
7. Move switch lever to the "OFF" position (Diagram 6) to turn off the pump.
8. Remove the dispensing nozzle from the container being filled and store it in the nozzle boot.
9. Re-engage lock on switch lever.



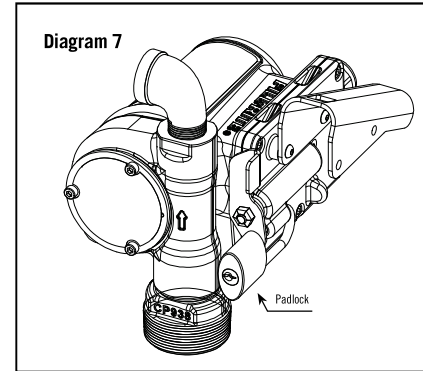
Security

Your Fill-Rite fuel transfer pump is equipped with a locking hole located in the switch lever for security. With the pump turned off and the nozzle in the stored position, a padlock can be inserted through the switch lever (Diagram 7). Fill-Rite recommends a commercial grade laminated steel padlock with an adjustable shackle. In order to work properly with the FR8 series, locks must have a .25" shackle diameter and a vertical shackle clearance between 2-2.5".

The following padlock models are compatible with the FR8 Series:*

- A. Master Lock® model 140DLH
- B. Brinks® model 171-42201 or model 172-42201
- C. Puroma® model KP401
- D. McMaster-Carr® model 1557A54

**Disclaimer: see last page*



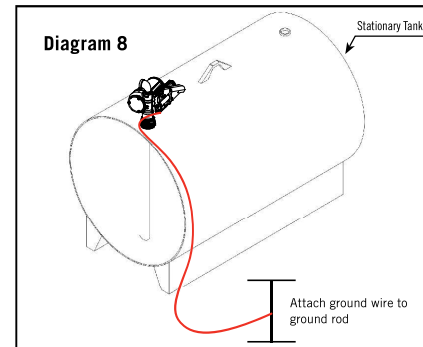
Alternative Instructions for Stationary Tank Set-Up

If the FR8 will be used on a stationary tank, the pump needs to be electrically bonded to a ground rod (Diagram 8).

For questions, Please contact Fill-Rite Technical Support at 1 (800) 720-5192 (M-F, 8am-5pm ET).

⚠ WARNING

Electrical wiring should ONLY be performed by a licensed electrician in compliance with all local, state, and national electrical codes (NEC/ANSI/NFPA 30, NFPA 30A, and NFPA 70) as appropriate for the intended use of a Fill-Rite fuel transfer pump.



Troubleshooting

The following troubleshooting guide is provided to offer basic diagnostic assistance in the event you encounter abnormal service from your Fill-Rite fuel transfer pump. If you have questions, please feel free to contact Fill-Rite Technical Support at 1 (800) 720-5192 (M-F, 8am-5pm ET) or by email at FillRiteTech@fillrite.com.



WARNING

Please disconnect all power supply sources from your DC pump prior to performing any service or maintenance, as well as relieve any pressure within either the suction tube or discharge hose. Failure to do so can result in damage to the equipment and personal injury or death.

Symptom	Cause	Cure
Pump will not prime	Suction line problem	Check for leaks or restrictions in suction line
	Vanes sticking	Check vanes and rotor slots for wear; replace if necessary
	Excessive rotor or vane wear	Inspect rotor and vanes for excessive wear or damage; replace if necessary
	Automatic nozzle	Remove to prime pump
	System blockages	Check filter and bypass valve for debris; remove nozzle and test flow with pump ON
Low capacity	Excessive dirt in screen	Remove and clean screen
	Suction line problems	Check for leaks or restrictions in suction line
	Outlet blocked	Check pump outlet hose, nozzle, and filter for blockage
	Vanes sticking	Check vanes and rotor slots for wear; replace if necessary
	Excessive rotor or vane wear	Inspect rotor and vanes for excessive wear or damage; replace if necessary
	Hose or nozzle damage	Replace hose or nozzle
	Plugged filter	Replace filter
Low fluid level	Fill tank	
Pump runs slowly	Incorrect voltage	Check incoming supply line voltage
	Vanes sticking	Inspect vanes and rotor slots for nicks, burrs, and wear
	Wiring problem	Check for loose connections
	Motor problem	Contact Fill-Rite Technical Support at 1 (800) 720-5192 (M-F, 8am-5pm ET)
Motor stalls, fuse blows, thermal protector trips repeatedly	Low voltage	Check incoming supply line voltage
	Excessive rotor or vane wear	Check rotor and vanes for excessive wear or damage
	Debris in pump cavity	Clean debris from pump cavity
Motor overheats	Transferring high viscosity fluids	These fluids can only be pumped for short periods of time (less than 15 minute duty cycle)
	Clogged screen	Remove inlet and clean screen
	Restricted suction pipe	Remove and clean pipe
	Motor failure	Contact Fill-Rite Technical Support at 1 (800) 720-5192 (M-F, 8am-5pm ET)
	Pump rotor lock-up	Clean and check pump rotor and vanes
Motor inoperable	No power	Check incoming supply line power
	Wiring issue	Use multimeter to isolate issue with supply line power
	Motor failure	Contact Fill-Rite Technical Support at 1 (800) 720-5192 (M-F, 8am-5pm ET)
	Locked rotor	Clean and check pump rotor; repair as needed with KITFR8RG
	Incorrect/loose wiring	Verify correct wire size with local, state, and national electric codes
Fluid leakage	Bad gasket/seal	Check and replace all gaskets and thread sealant
	Incompatible fluid	Refer wetted components list on page 11 to the fluid manufacturer
	Loose fasteners	Tighten fasteners
Pump hums but will not operate	Motor failure	Contact Fill-Rite Technical Support at 1 (800) 720-5192 (M-F, 8am-5pm ET)
	Broken rotor key	Remove all debris and replace key

Specifications and Models

The Fill-Rite FR8 Series is designed for use with the following flammable and combustible fluids: gasoline and gasoline blends up to 10% or E10, diesel, biodiesel blends up to 20% or B20, and kerosene. Please take all necessary precautions when handling flammable liquids.

		Product Materials
Product Parts	Pump Housing	Cast Iron
	Rotor	Powdered Iron
	Vane	Acetal
	Strainer Mesh	Stainless Steel
	Wetted Components	Buna-N, Fluorocarbon, Ceramic, Thermoset, Steel, Stainless Steel

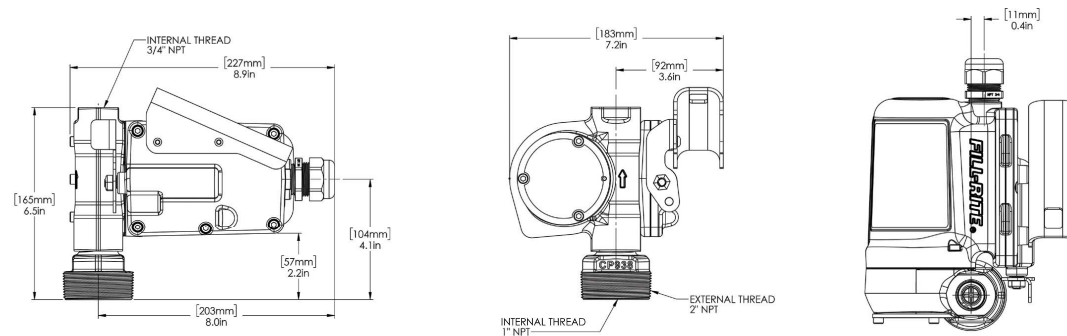
	Description	FR8 Series
Pump	Type / Design	Rotary vane
	GPM in Supplied Configuration	8 GPM / 30 LPM*
	Bypass Pressure Rating (PSI) - Max	12 PSI
	Lift	3.5'
	Head	28'
	Inlet - Size / Thread	1" NPT
	Outlet - Size / Thread	3/4" NPT
	Mount	2" NPT Bung
	Strainer Mesh Size	20 x 20, 304SS
	Warranty	2-Year†

	Description	FR8 Series
Motor	Power	12V DC
	Amps (FLA)	10
	Amps (Fuse)	20
	RPM (Approximate)	2,600
	Duty Cycle	15 Min On / 15 Min Off
	Thermal Protection	Yes
	Certifications	cULus

*Adding accessories will affect flow rate

†Warranty details can be found at fillrite.com

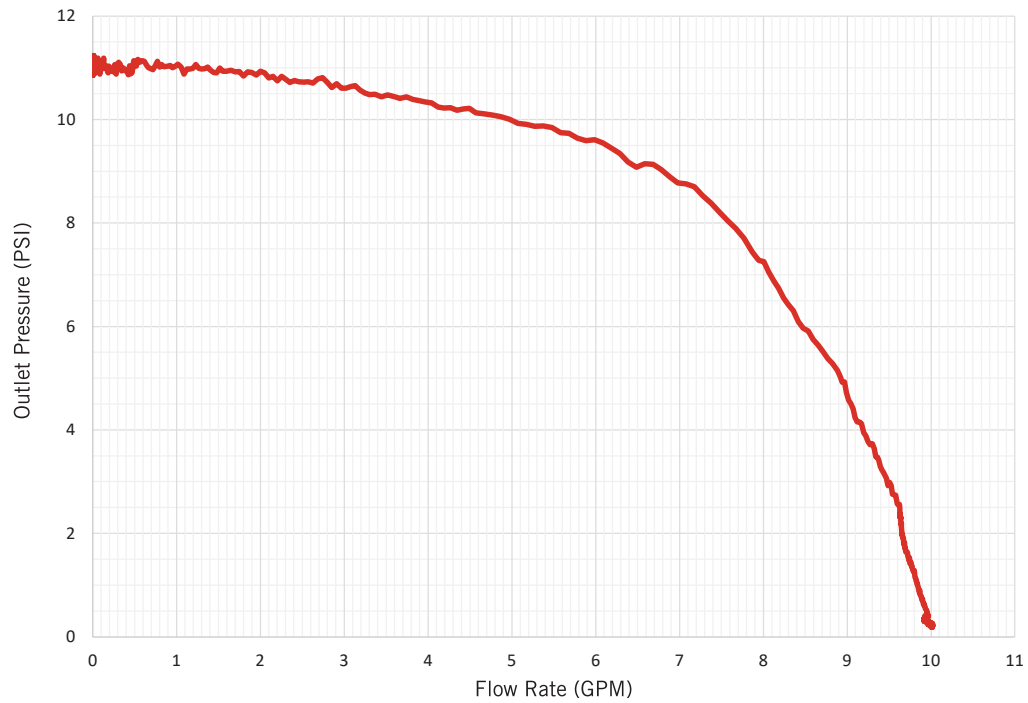
FR8 Series Dimensions



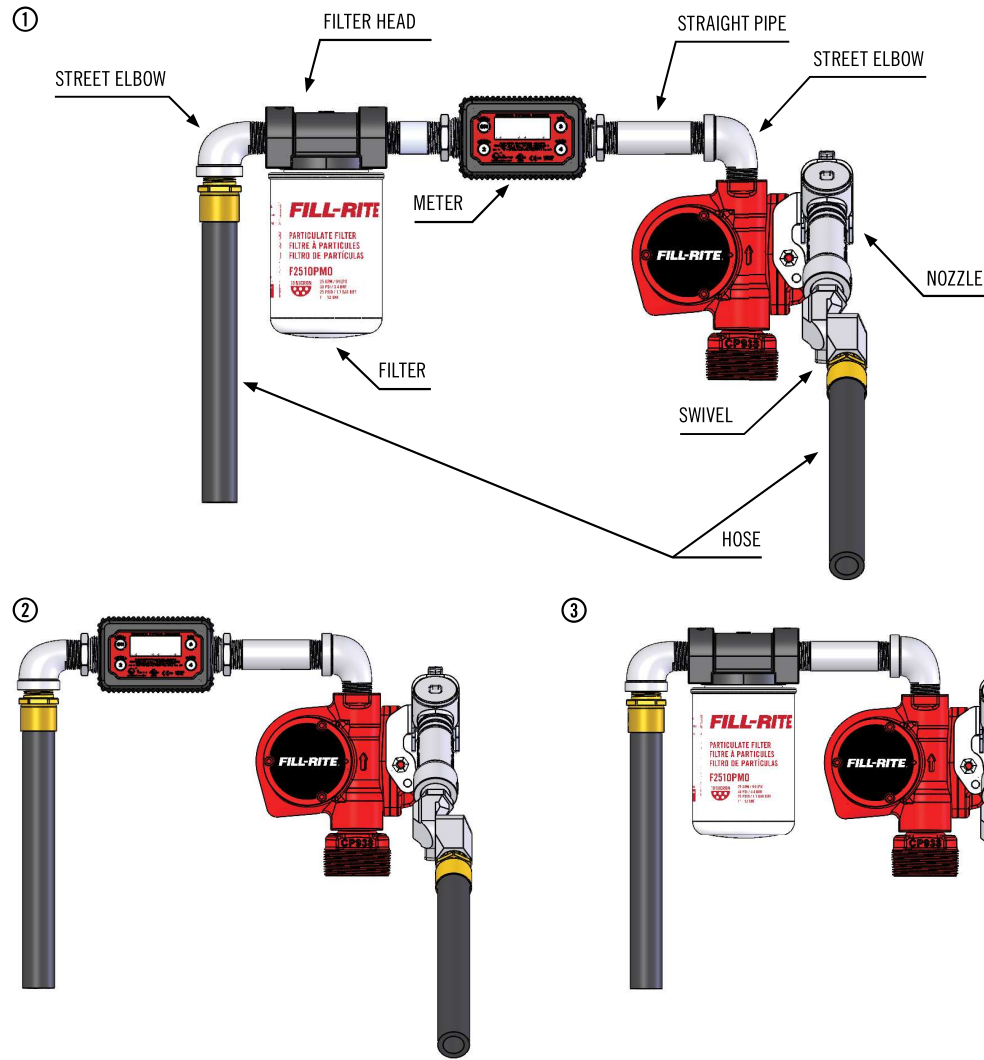
FR8 Series Model Information

Model Number	Nozzle	Hose	Filter	Filter Head	Inlet Tube	Power Cord	Voltage	Outlet
FR8-PX	Not included in model						12V DC	3/4" NPT
FR8	Manual	12'	Not included in model		Metal Telescoping 23-11/16" - 36-7/8"	2-Wire, 14 GA, 15'		
FR8-FM			10 Micron Particulate Filter	3/4" Filter Head				

FR8 Series Performance Curve



Accessory Configurations



Accessories Pictured	
Configuration 1	1200KTF7025 (Particulate filter with filter head), TT10AN Meter, 3/4" Manual Nozzle, 3/4" Swivel, 3/4" Hose, (2) 3/4" Street Elbows, 3/4" x 2.5" Pipe Nipple, 3/4" x 4" Pipe Nipple
Configuration 2	TT10AN Meter, 3/4" Manual Nozzle, 3/4" Swivel, 3/4" Hose, (2) 3/4" Street Elbows, 3/4" x 4" Pipe Nipple
Configuration 3	1200KTF7025 (Particulate filter with filter head), 3/4" Manual Nozzle, 3/4" Swivel, 3/4" Hose, (2) 3/4" Street Elbows, 3/4" x 4" Pipe Nipple

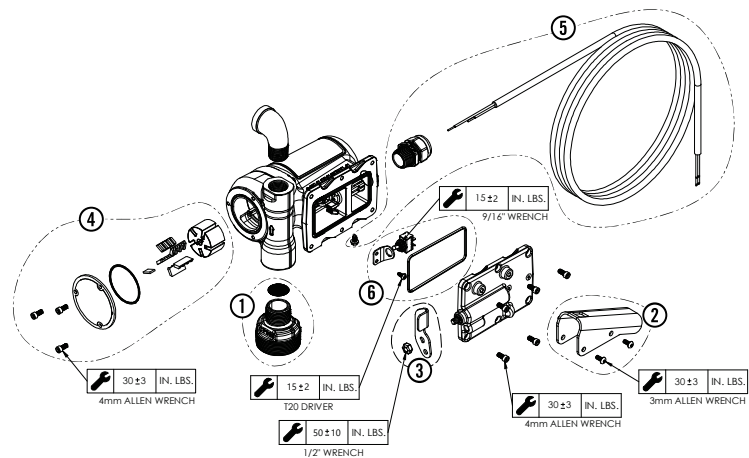
Pump Repair and Rebuild Kits


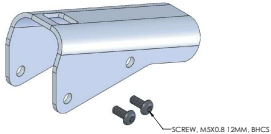
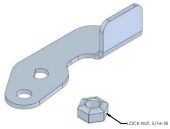



For repairs or routine maintenance, Fill-Rite offers the parts you need. The following parts diagram and list covers all applicable parts for your Fill-Rite product. These parts can be obtained through any authorized Fill-Rite dealer. Be sure to use only genuine Fill-Rite replacement parts for your service and maintenance needs. For a list of authorized dealers, please visit fillrite.com.



WARNING

DO NOT open or attempt to repair the motor on your FR8 series pump. Opening the motor case can compromise the integrity of the Explosion Proof construction and will void any existing warranty and certification (UL listing). **Please refer to the Warranty Policy located on page 2.**



<p>1. KITFR8BG - Inlet Bung Kit</p>  <p>Inlet Bung and Inlet Screen</p>	<p>2. KITFR8NB - Nozzle Boot Kit</p>  <p>Nozzle Boot, (2) Button Head Screws</p>	<p>3. KITFR8SW - FR8 Switch Lever</p>  <p>Switch Lever Mounting Bolt</p>
<p>4. KITFR8RG - FR8 Rotor Kit</p>  <p>Rotor, (5) Vanes, Key, Rotor Cover, Rotor Cover Seal, (3) Bolts</p>	<p>5. KITFR8PC - FR8 Power Cable Kit</p>  <p>15' Power Cord, Cable Gland, Ground Screw, Electrical Connectors</p>	<p>6. KITFR8ES - FR8 Internal Switch Kit</p>  <p>Internal Switch w/ Mounting Bracket and Screw, Switch Plate Gasket, (6) Bolts</p>

CERTIFICATION INFO

The Fill-Rite line of pumps have been safety tested for regulatory compliance. This product family is approved by UL/cUL.



Motor Tag Information

The motor tag on your Fill-Rite pump contains important technical and performance information, below is an example of a Class 1 Division 1 Motor Tag.



*DISCLAIMER TOWARDS SUGGESTED MECHANICAL LOCKS

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