

VEVOR

Upgrade · The Home Creator Way



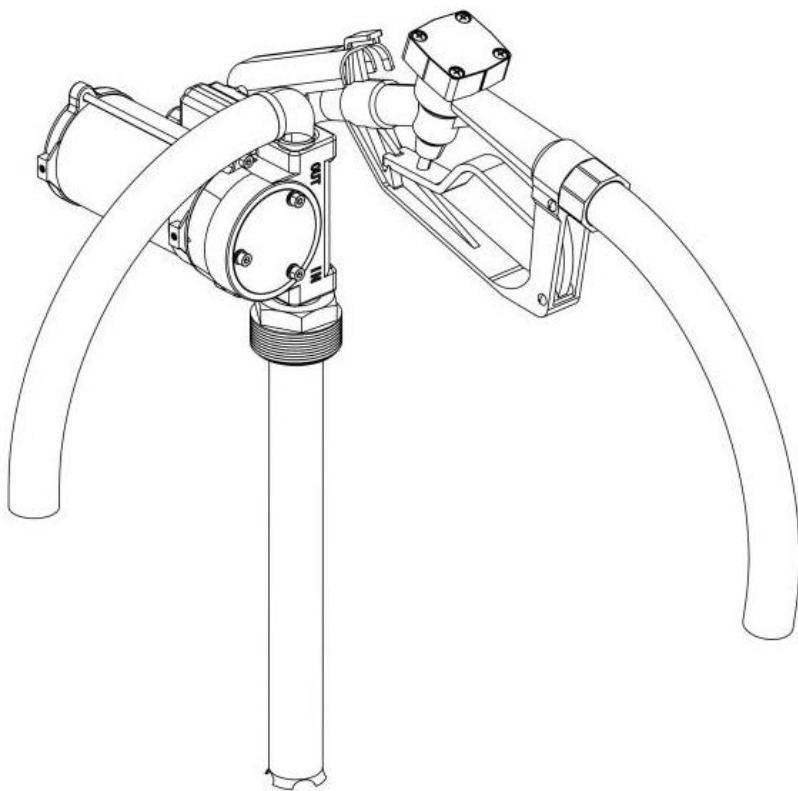
KEX-15E

VEVOR Support Center

FUEL TRANSFER PUMP

MODEL: KEX-15E

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This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

Warning-To reduce the risk of injury, user must read instructions manual carefully. The product complies with relevant standards and regulations. Installation of this device must comply with all applicable regulations, and it should only be operated in well-ventilated areas. Please read the user manual before installing and using this equipment. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children shall not play with the appliance. "This appliance is intended to be used in gas station, farm. Please use the product according to the intended use, warn of potential injury from misuse. Always disconnect the appliance from the supply if it is left unattended and before assembling, disassembling or cleaning. WARNING: Only use the supply unit provided with this appliance. Warning: Only use an external power supply that meets the specifications." Do not use the pump in flammable or explosive areas. Keep away from flames, sparks, mobile phones and static sources during operation. Use only for the specified type of fuel. Do not use for unspecified flammable liquids.

Read and understand all instructions before installation and operation. Non-professionals are prohibited from installing, repairing or modifying the pump. Ensure the power supply voltage matches the nameplate rating before connection. Do not reverse or incorrectly connect power.

The pump must be properly grounded during operation to prevent static electricity buildup that may cause fire or explosion.

Do not continue to use the pump if leakage, damage, abnormal noise or overheating occurs.

Do not smoke, use open flames or spark-generating tools during fuel transfer. Ensure hoses and fittings are tightly sealed to prevent fuel leakage. Stop operation immediately if leakage is found.

Keep children away from the operating area. Do not allow children to operate or play with the equipment.

Do not leave the pump unattended while in operation.

Electrical connections must comply with explosion-proof and safety regulations. Do not plug or unplug power in hazardous areas.

If fuel contacts skin or eyes, flush with water immediately. If swallowed, do not induce vomiting and seek medical help at once.

Disconnect power, relieve pipeline pressure and clean residual fuel before maintenance.

The pump is intended for specified fuel transfer only. Do not use for other purposes."

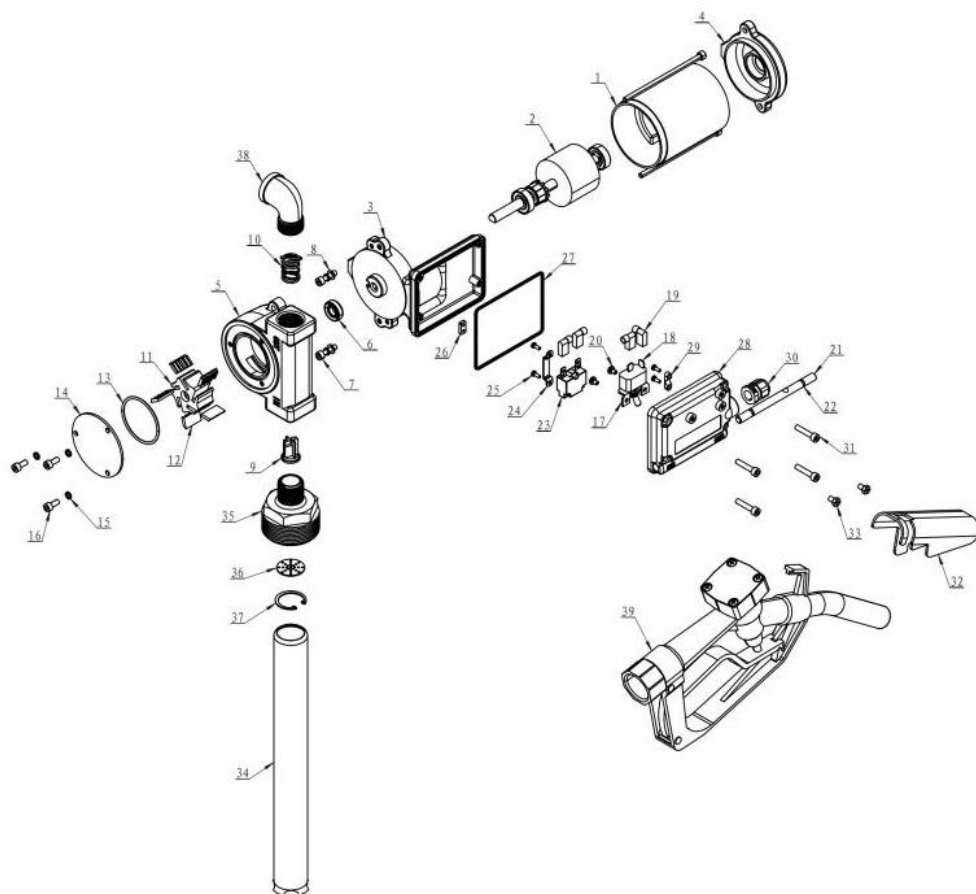


Warning-To reduce the risk of injury, user must read instructions manual carefully.



This product is subject to the provision of European Directive 2012/19/EC. The symbol showing a wheeled bin crossed through indicates that the product requires separate refuse collection in the European Union. This applies to the product and all accessories marked with this symbol. Products marked as such may not be discarded with normal domestic waste, but must be taken to a collection point for recycling electrical and electronic devices

ACCESSORY



Serial Number	Name and Specification	Quantity	Material
1	Motor barrel	1	-
2	Motor rotor	1	-
3	Front end cover of the motor	1	ADC12
4	Rear end cover of the motor	1	ADC12
5	Pump head	1	Gray cast iron
6	Skeleton oilseal 10×22×7	1	Brown fluororubber
7	Hexagon socket head cap screw M5×20	2	304 stainless steel
8	Flat washer 5×10×1.5	6	Carbon steel
9	Return valve	1	Reinforced nylon
10	Return valve spring	1	65Mn
11	Rotor	1	"Powder metallurgy FCD208"
12	Vane	5	PPS
13	O-ring with outer diameter $\phi 54 \times 2$	1	oil-resistant nitrile rubber
14	Cover	1	Q235A
15	Spring washer M5	5	304 stainless steel
16	Hexagon socket head cap screw M5×12	3	304 stainless steel
17	Switch bracket	1	Q235A
18	Toggle switch	1	-
19	Flag-type terminal	4	-
20	Cross recessed pan head screw M4×6	2	Carbon steel
21	Switch bar	1	6061 aluminum alloy
22	O-ring with inner diameter $\phi 5 \times 1.5$	2	Oil-resistant nitrile rubber
23	Current overload protector	1	-
24	Protector pressure plate	1	Q235A
25	Cross recessed pan head screw M3×8	4	Carbon steel
26	Wire sleeve	1	Oil-resistant nitrile rubber
27	Waterproof gasket	1	Oil-resistant nitrile rubber
28	Switch upper cover	1	ADC12
29	Pressure plate	1	PP
30	Cable waterproof connector	1	Plastic
31	Hexagon socket head cap screw M5×25	4	201 stainless steel
32	Gun rack	1	Q235A
33	Triple combination cross-hexagon screw M5×8	2	Carbon steel
34	Telescopic tube	1	-
35	Base connection joint	1	Gray cast iron
36	Filter screen	1	Stainless steel
37	Circlip for hole $\phi 30$	1	65Mn
38	90°elbow	1	-
39	12A oil gun	1	-

MAIN SPECIFICATIONS

Application: Designed to safely transfer low viscosity petroleum fuels such as gasoline (up to 15% alcohol blends such as E15), diesel fuel (up to 100% biodiesel such as B100) and kerosene. Pump is designed for permanent mounting on vented storage tanks.

Pump Housing: Lightweight, corrosion-resistant, cast aluminum body, convenient union ring for easy installation.

Model	KEX-15e
Voltage	DC12V
Max Flow	15 GPM
Horsepower	1/4 HP
Max Lift	34 FT
Max Suction Lift	7 FT

GENERAL INFORMATION

The purpose of this manual is to assist you in installing, operating and maintaining your pump. This manual covers the 12-Volt DC electric gear pump KEX-15E. Connect this pump 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.



An automatic bypass valve prevents pressure build up when the pump is on with the nozzle closed. To avoid damage, do not run the pump more than 10 minutes with the nozzle closed.

The duty cycle of this pump is 30 minutes ON and 30 minutes OFF. Allow the pump to cool for 30 minutes.

This pump is designed for use with gasoline (up to 15% alcohol blends such as E15), diesel fuel (up to 100% biodiesel such as B100) and kerosene. Do not use this pump for dispensing any fluids other than those for which it was designed. To do so may damage pump components.

CAUTION

This pump has a minimum operating temperature of +40°F when used with B100 (biodiesel).

This pump is designed to operate on a typical DC automotive electrical system. The pump is designed to operate with the appropriate DC voltage at the motor leads and the ratings are determined at this voltage.

Performance may vary due to length of power cord, battery condition or output from the vehicle charging system that will affect system voltage.

Do not leave the system running with fluids. “Dry running” can damage the pump.

Do not pump the tank completely dry, as contaminants from the bottom of the tank may enter the pump.

SAFETY INSTRUCTION



The following safety alert symbols are used in this manual.



DANGER

DANGER indicates a hazardous situation

which, if not avoided, will result in death or serious injury.



WARNING

WARNING indicates a hazardous situation

which, if not avoided, could result in death or serious injury.



CAUTION

CAUTION indicates a hazardous situation

which, if not avoided, may result in minor or moderate injury.

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.

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, bung, 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. To prevent physical injury, 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 cigarettes, or gas or electric heaters.

Observe precautions against electrical shock when operating

To prevent physical injury, 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 cigarettes, or gas or electric heaters.

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

Inspect external pump wiring regularly to make sure it is correctly attached to the battery.

To avoid electrical shock, use extra care when connecting the pump to power.

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.

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.

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

INSTALLATION

This pump is designed to self-prime with dry gears.

Expect suction lift as follows:

Manual Nozzle: 5.5 feet (1.7 m) with diesel 6.7 feet (2.1 m) with gasoline.

If you require a greater initial prime height, coat the gears with fluid by removing the plug on the top of the pump and pouring 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.

Make sure all threaded fuel connections are wrapped with three to four turns of thread tape or a pipe thread sealant approved for use with petroleum fuels.

Install Bung Adapter and Suction Pipe

- Tighten the bung adapter snugly into the fuel tank.
- Place the union ring gasket into the inlet fitting on the bottom of the pump.
- Thread the suction pipe into the inlet fitting and tighten until snug.

Install Pump on Tank

- Clean the tank interior of all dirt and foreign material.
- Extend the suction pipe to its full length and insert into the tank opening.

	Installation video QR code (as shown in the left figure).
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- Place the pump on the bung adapter and tighten the union ring securely with a pipe wrench.
Make sure the union ring is not cross-threaded.
- To prevent pressure buildup and possible fuel leaks through the nozzle, make sure the tank is vented.
A vent cap rated at 3 psi or less is recommended.

Install Electrical Connections

A grounding connection is provided. It is identified as a green colored binding head screw in the electrical cavity.
The KEX-15E must 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.
For installation in unclassified areas, the supplied power cord, fuse and strain relief grip may be used.
To install the power cord, remove the electrical cover plate.

If necessary, trim the power cord to the desired length. Strip 3 to 4 inches (7.5 to 10 cm) of outer insulation from the power cord end. Then strip 1/2 inch (1.3 cm) of insulation from the power cord wires.
Slide the strain relief grip onto the power cord so that the threaded end of the strain relief grip faces the tripped power wires.

Insert the power cord through the 1/2 inch NPT connection on the back of the pump. Using wire nuts, connect the lack wire to the black wire and the red wire to the red in the pumps electrical cavity. Position the wires inside the electrical cavity and tighten the strain relief grip securely. Make sure surfaces are clean. Install the cover plate and tighten securely.

WARNING

Carefully route the power cord to the battery, protecting the power cord from hot surfaces, sharp edges or anything that could damage the power cord, resulting in a short circuit.

A fuse is provided to protect the power cord and motor. Install fuse in the red wire of the power cord as close as possible to the battery. Connect the red wire of the fuse to the positive (ungrounded) side of battery. Connect black wire to the negative (grounded) side of the battery.

Failure to follow these instructions could result in death, serious injury or loss of equipment due to short circuit, fire or explosion.

DANGER

If the pump is to be installed in a Hazardous (Classified) location, it must be installed by a licensed electrician and conform to National Fire Protection Association (NFPA) codes 30 and 70.

You as the owner, are responsible for seeing that the installation and operation of your pump complies with NFPA codes as well as any applicable state and local codes.

Rigid conduit 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.

Install Hose and Nozzle

After sealing the threads, tighten the hose into the pump outlet and the nozzle on the hose.

The nozzle can be placed in the nozzle holder only when the pump is off.

The nozzle holder allows the pump to be locked when the nozzle is in place.

OPERATION INSTRUCTIONS

ALWAYS FOLLOW SAFETY PRECAUTIONS WHEN OPERATING THIS EQUIPMENT. REVIEW THE SAFETY INSTRUCTIONS.

Before each use, repair leaks around seals or connections. Make sure hoses are in good condition and connections are tight. Make sure the work area is dry.

MAKE SURE THE PUMP IS PROPERLY GROUNDED.

Repair any corroded or damaged wiring before use. Ensure the tank contains enough fuel. Make sure the fuel is not contaminated with debris.



This pump is designed for use only with gasoline (up to 15% alcohol blends such as E15), diesel fuel (up to 100% biodiesel such as B100) and kerosene. Do not use this pump for dispensing any fluids other than those for which it was designed. To do so may damage pump components . This pump has a minimum operating temperature of +40°F when used with B100 (biodiesel).

Dispense Fuel

Turn the pump on by removing the nozzle from its 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.

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 the priming information in the Troubleshooting Section.

An automatic bypass valve prevents pressure buildup when the pump is on with the nozzle closed. To avoid pump damage, do not run the pump for more than 10 minutes with the nozzle closed.

Motor Protector

The pump contains a motor protector that provides added protection against motor damage. It must be reset manually.

If the motor protector trips, reset by turning the switch OFF. Let the pump cool then turn ON again.

