

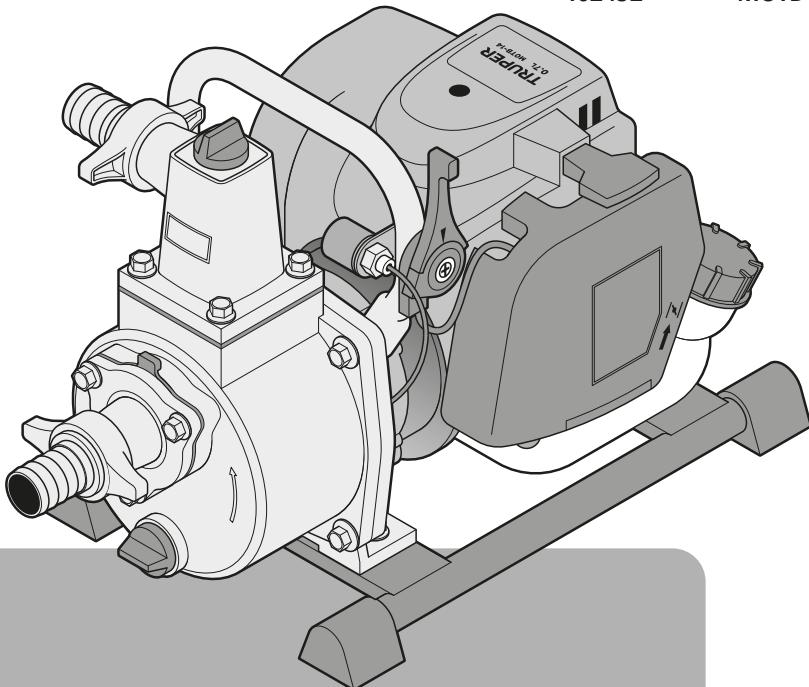
Manual

# Water pump for agricultural use

Applies for:

Code  
102432

Model  
MOTB-14



## MOTB-14



CAUTION  
Read the user's manual thoroughly  
before operating this tool.



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## CAUTION

To gain the best performance of the tool, prolong the duty life, make the Warranty valid if necessary, and to avoid hazards of fatal injuries please read and understand this Manual before using the tool.

Keep this manual for future references.

The illustrations in this manual are for reference only. They might be different from the real tool.

## Use and care recommendations



**DO NOT** start the machine **WITHOUT OIL** or the engine will suffer serious damage due to lack of lubrication



For better performance and durability use higher-octane gasoline. In Mexico, we suggest using **PREMIUM** gasoline. Never use gasoline that is contaminated and/or mixed with additives or oils.



Completely **FILL THE PUMP** with water before starting it (priming)



Position the water pump on a **STABLE AND FLAT SURFACE**



Perform regular **MAINTENANCE** on your machine (page 11)

## MOTB-14

Code •	102432
Description •	Water pump for agricultural use
Engine displacement •	36 cm <sup>3</sup> (cc)
Engine rated power •	970 W (1.3 Hp)
Motor type •	4 stroke OHC
Speed •	6500 RPM
Fuel •	Gasoline
Gasoline tank capacity •	0.7 L
Fuel efficiency • at 100% load	1 h 15 min
Oil type •	SAE 10W-30
Inlet and outlet diameter •	1"
Maximum suction depth •	26 ft
Maximum height •	82 ft
Maximum flow •	110 L/min
Sound level •	Lower than 81 dB at 13 ft
Thermal energy consumption •	0.46 L/h
Weight •	15 lb

## Fuel requirements



For better performance and durability use higher-octane gasoline. In Mexico, we suggest using PREMIUM gasoline.

### Do not use the equipment in enclosed spaces.

**DANGER** To avoid breathing buildup of carbon monoxide, a potentially deadly toxic odorless gas.



- The equipment has an air-cooled 4-stroke engine that uses pure unleaded gasoline.
- Do not mix oil with fuel for any reason.

**WARNING** • Do not use fuels blended with ethyl alcohol (gasohol), ethanol or methanol for any reason as they can attract moisture which causes separation and formation of acids during storage. Acidity can damage the engine's fuel system when in storage.

- In order to avoid problems with the engine, the fuel system must be emptied before storing the equipment for periods of 30 days or more. Drain the fuel tank placing a suitable container for fuel. Start the engine by letting it run until the rest of the fuel is used up and the machine shuts itself off. The following season, use fresh gasoline.

- Never use inside the gasoline tank, products to clean engines or carburetors as it can cause permanent damage.

### Never smoke near fuel.

**DANGER** Do not smoke near the refueling area or when operating the equipment.



Keep your work area clean, tidy and well lit.

**CAUTION**

Cluttered and dark areas may cause accidents.



Never use the tool in explosive areas or in the presence of flammable liquids.

**DANGER**

Before starting the motor keep the tool at least 9 meters (30 feet) away from the fill up area.



Keep children and passersby at a safe distance while operating the tool.

**WARNING**

Distractions could cause loss of control and cause accidents.



Avoid contact with power lines and circuits.

**DANGER**

Find and avoid power lines and circuits, especially hidden wiring as well as any grounded object.



Stay alert, use care and common sense.

**CAUTION**

Familiarity with the tool operation could lead to distractions. It could cause accidents.



Refrain from using the tool if tired or under the influence of drugs, alcohol or medication.

**DANGER**

Being momentarily distracted while using the tool could cause severe personal injury.

Operate the tool with guards and protection devices in place and in good working condition.

**WARNING**

Failure to comply with this warning is a hazard of severe personal injury.



Do not force the tool.

**CAUTION**

Working within the tool's working design assures a better and safer job.



Keep the tool in a safe place and out of the reach of children.

**WARNING**

Motor powered tools are dangerous to inexperienced people.



Wear proper clothes.

**WARNING**

Loose clothes, jewelry or long hair could get caught in the mobile parts.



Keep hands away from rotating and/or mobile parts.

**WARNING**

Failure to comply with this warning is a hazard of severe personal injury.



Do not operate the tool in enclosed areas.

**DANGER**

Avoid breathing accumulated carbon monoxide, a potentially deadly odorless toxic gas.



Wear adequate protective safety accessories.

**CAUTION**

Wear eye protection, dust mask, non-skid safety shoes, helmet and ear plugs. These safety gears reduce the risk of injury.



Turn off the tool before adjusting, changing accessories or storing.

**WARNING**

Double check the tool switch is in the off position.

Refrain from operating the tool if the switch is not working or is not properly assembled.

**WARNING**

Failure to comply with this warning is a hazard of personal injury. Immediately send it to a TRUPER Authorized Service Center.

Do not overreach.

**CAUTION**

Good balance and support lead to better controlling the tool in unexpected situations.

Avoid the tool to unintentionally start.

**WARNING**

Double-check the tool motor is off before maintenance or putting it away.



Remove brackets before turning on the tool.

**DANGER**

Additional tools or vices installed in a rotating part could cause severe personal injury.

Service the tool and double-check it is in good working conditions before operating.

**CAUTION**

Carefully check mobile parts, alignment and assembly. Do it periodically. Look for any damaged element or part not working properly. Repair immediately in a TRUPER Authorized Service Center.



Accessories.

**CAUTION**

Use only accessories or spare parts indicated in this Manual or certified by TRUPER.

Never leave a running tool unattended.

**DANGER**

Turn off and disconnect the tool after using. Set it in a safe position to avoid severe injury.



Never smoke in the proximity of fuel.

**DANGER**

Do not smoke in the proximity of the fueling area or when using the tool.

Do not touch parts with high temperatures.

The surface of the engine and the exhaust reach high temperatures during the operation of the tool.

Service and repair.

Always go to a TRUPER Authorized Service Center to use identical spare parts and maintain the security of the tool.

## Appropriate use

- Do not use the pump to pump flammable or corrosive liquids such as gasoline, oils and acids, neither pumping sea water, fuels and / or similar substances.
- Set the pump on a firm, flat surface, 3,2 feet at least away from any wall and away from flammable things.
- Double check you know how to stop and operate the pump. Never let the pump be used under risky conditions or violating safety regulations.

• Inadequate use of the pump or modifications, components not approved or tested by the manufacturer, liberates the manufacturer from any legal liability.

**⚠ WARNING** • Do not install the water pump in areas where there is risk of explosion or near liquid fuels or gases.

**⚠ WARNING** • Do not aim the water jet against the water pump or other electrical components. There is danger of death due to electric shock.

• Symbols adhered onto the water pump shall not be removed or covered. All information regarding the equipment that is no longer legible shall be immediately replaced.

• Read and obey the operation instructions before installing or starting the motor pump. Any malfunction caused by omission of the indications in this manual can damage the pump and make the Warranty void.

• The time it takes for the water to start flowing through the pump may vary depending on the suction depth. Do not operate the pump empty (with no water). This action could damage the mechanical seal in the system.

• Before starting the pump verify the suction hose is properly connected. Water leaks in the connection will prevent the right operation of the pump.

• Purge the pump before each operation once it is connected and set in the working place.

## Fuel Handling

- Never smoke close to where there is fuel, nor the filling up zone or when operating the pump.
- To reduce risk of fire or burns, handle fuel with care. It is extremely flammable.
- Prevent gasoline or oil to be in contact with your skin.
- Protect your eyes to guard off gasoline or oil splashes. In the event of accidental contact, wash immediately with clear water. If irritations persist, go see a physician.
- Store fuel in a dedicated container.

**⚠ WARNING** • Before re-fueling, shut down the motor, set the equipment on clear terrain and wait for it to cool down.

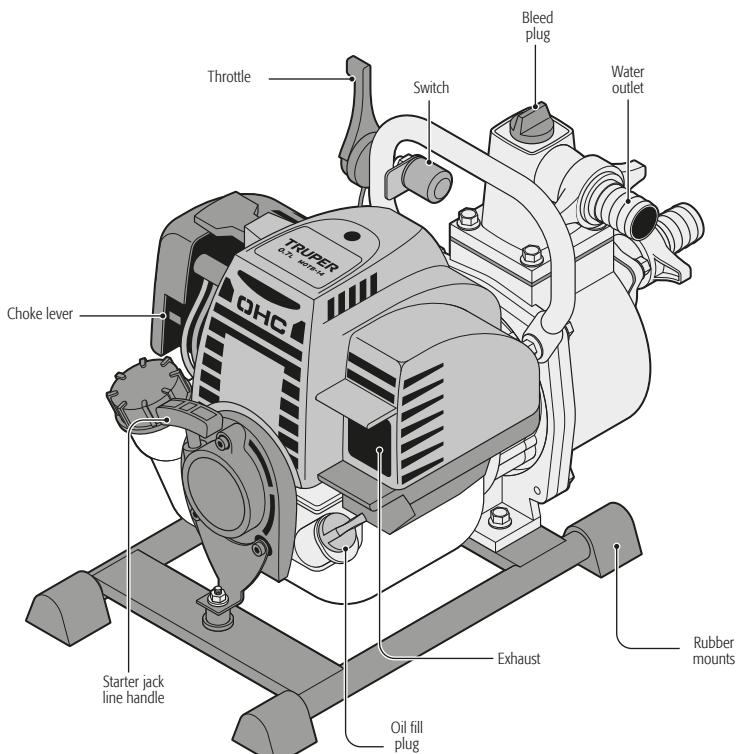
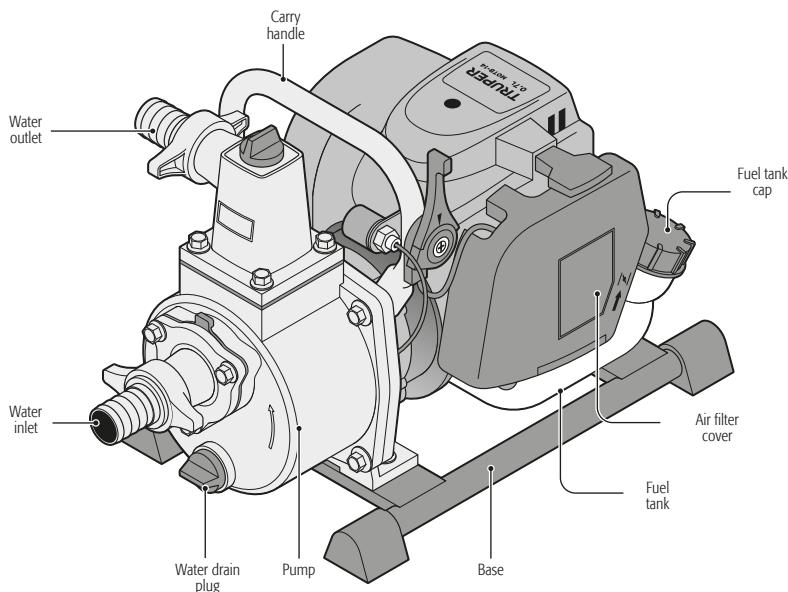
**⚠ CAUTION** • Wipe clean all the spilled fuel before operating the equipment.

**⚠ CAUTION** • Check for fuel leaks to prevent fire, or burns. If there are leaks, mend them before using the pump.

• Under no reason at all burn spilled fuel to get rid of it.

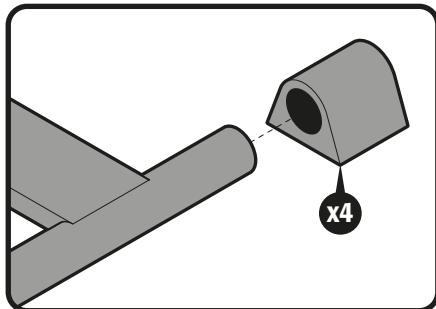
• Por ningún motivo utilice cualquier otro tipo de combustible que el especificado en el instructivo.





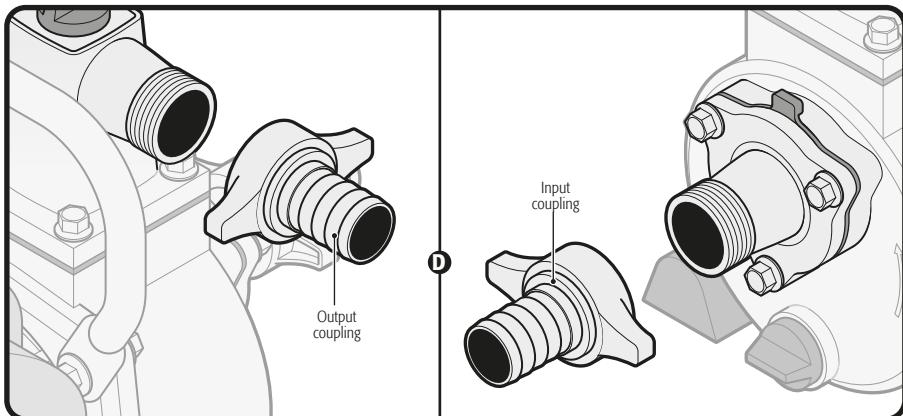
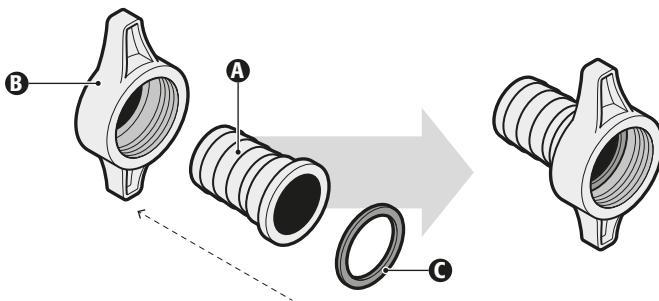
## Mounting of supports

- The four rubber mounts must be placed on the base of the tubular chassis to avoid damage to the equipment caused by normal operating vibration.
- Insert the tube of the base of the rubber support to fix it to the chassis. Push all the way in to make it secure.
- Repeat the operation with the rest of the supports.



## Coupling assembly

- Insert the coupling (A) into the nut (B) as shown in the graph.
- Place the seal (C) behind the coupling.
- Screw the nut into the inlet and/or outlet of the motor pump (D).



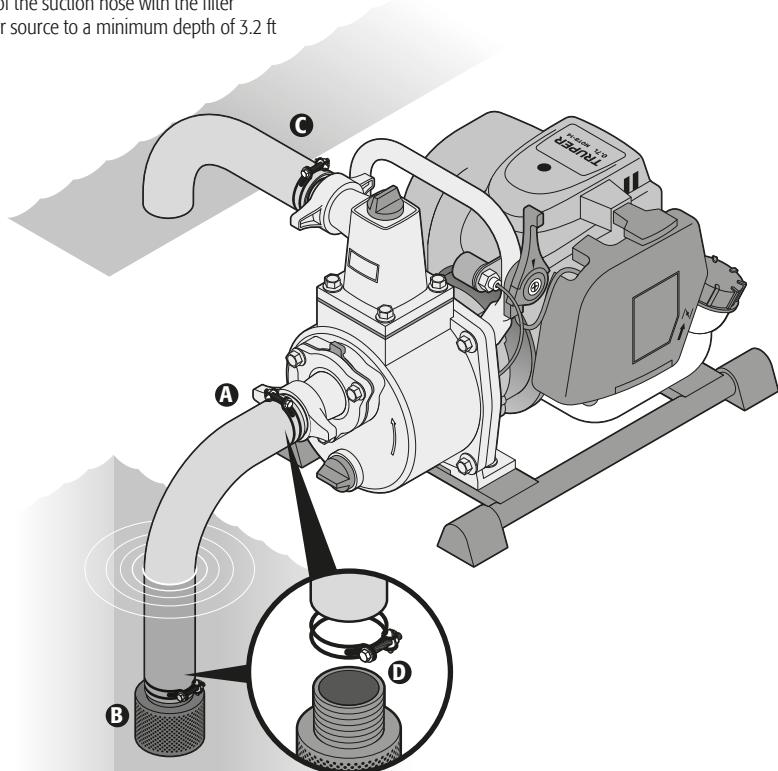
- Place the equipment on a dry, firm, flat and level surface.
- Connect one end of the suction hose (not included) to the water inlet of the motor pump (**A**) and the other end of the hose to the filter (**B**).
- Connect the discharge hose (not included) to the water outlet of the pump (**C**).

**⚠ CAUTION** • All connections must be secured with suitable clamps (**D**).

**⚠ CAUTION** • The hoses must be continuous without kinks in their structure. Length of the suction hose shall not exceed the maximum suction depth available to operate the pump correctly.

**⚠ CAUTION** • It is essential to use the filter (**B**) to prevent particles from entering the system and damaging the pump.

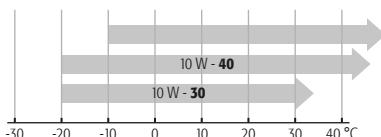
- Immerse the end of the suction hose with the filter attached in the water source to a minimum depth of 3.2 ft



## Oil supply (A)

- Place the equipment on a flat, level surface.
- Turn and remove the oil fill plug.
- Use 4-stroke engine oil. SAE 10W-30 oil is recommended for general use at any temperature.

As indicated in the table below, other viscosities may be used when the average temperature in your location is within the indicated range.



- Replace the plug and remove it to check the oil level on the plug dipstick.

- Once the tank has the correct oil level indicated on the dipstick, tighten the plug to prevent leaks.

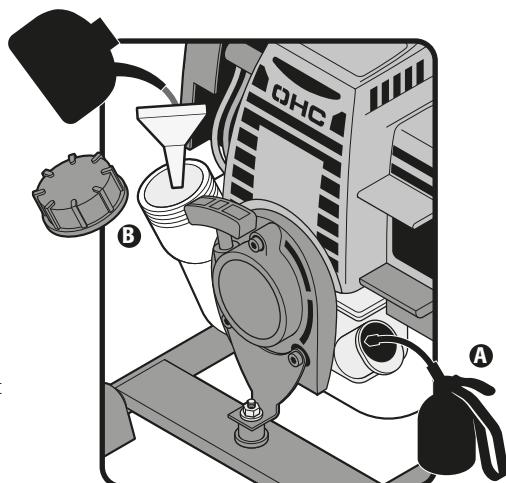
**CAUTION** • Do not exceed the maximum oil level, as a lot of smoke may come out of the muffler when starting the engine.

**CAUTION** • Check the oil level before each use. If necessary, add oil until the level is between the limits of the dipstick.

**CAUTION** • Change the oil after the first 20 hours of initial use, then perform the change every 100 hours. It may be necessary to replace oil more often during dusty or dirt conditions.

## Fuel supply (B)

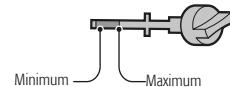
- Place the equipment on a flat and level surface.
- Clean and dry the area around the fuel cap.
- Remove the fuel cap.
- Using a funnel, slowly fill the fuel tank to the bottom of the neck of the tank. Do not overfill to allow for fuel expansion and prevent spillage.
- Clean up any fuel spills.
- Close the fuel tank by turning the cap.
- Clean up any fuel spills before starting.



## High altitude operation

- At high altitude, the air-fuel mixture of the standard carburetor will be rich in fuel. Performance will decrease and fuel consumption will increase.
- The pump is set to operate at altitudes above 1 820 meters (6 000 feet) above sea level. If you notice that the motor pump does not operate efficiently, go to a TRUPER Authorized Service Center to make the corresponding modifications to the carburetor.
- Even if the carburetor is properly injected, engine power will decrease by approximately 3.5% for every 1 000 ft (305 m) increase, after 6 890 ft (2 100 m) above sea level. The decrease in power will be greater if no modifications are made to the carburetor.

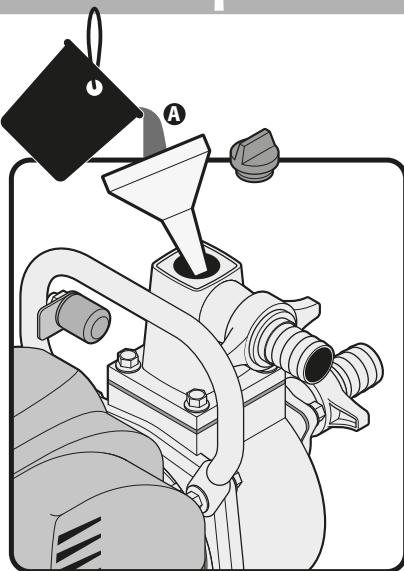
**WARNING** • If the water pump is operated at an altitude inappropriate to the carburetor setting, poor performance, overheating and serious damage to the engine caused by excessive mixing of air in the fuel could result.



**Purge**

- The system must be purged of any air bubbles by filling the pump with clean water before turning it on.
- \* Remove the drain plug (A). Fill with water until it reaches the level of the hole and screw on the plug. Only then can the pump be started.

**⚠️ WARNING** Never start the pump when the pump is empty. If this happens accidentally, turn off the pump immediately, wait for it to cool down and then fill it using clean water.

**Turn ON**

**⚠️ CAUTION** Before turning on the pump, it is essential to comply with the following points, otherwise it could be damaged and the guarantee would be invalidated:

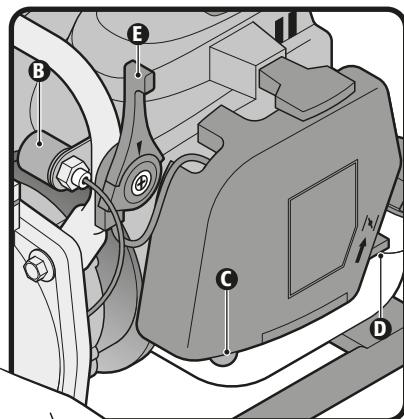
- All hoses must be connected, completely untangled and free of kinks.
- The suction hose with filter must be submerged in the water source.
- Gasoline and oil levels must be correct.
- The system must be purged as indicated above.

- Press the switch (B).
- Press and release the primer bulb 10 times (C).
- Raise the choke lever (D) to the "closed" position.
- Move the throttle lever (E) to the high-speed position.
- Gently pull the line handle three or four times (F) until you feel resistance on the line. Then pull hard to start the engine.

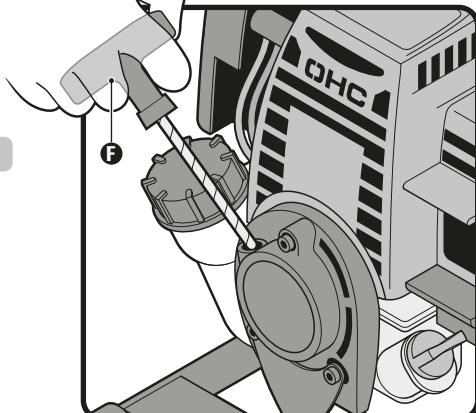
**⚠️ CAUTION** Carefully return the handle to its place. Do not let go, otherwise it will snap back and may be damaged.

- Allow the engine to run for 5 seconds and then lower the choke lever to the "open" position.

**⚠️ CAUTION** • Always pay attention to the level of the water source, as during the pumping operation the level could drop as low as that the end of the suction hose is out of the water. If so, turn off the pump immediately and correct the depth of the suction hose. Avoid running the pump without water, otherwise it may be damaged.

**Turn OFF**

- Move the throttle lever (E) to the low-speed position.
- Wait a minute or two before the switch (B).
- Move choke lever (D) to "closed" position.



**CAUTION** • Regular and careful maintenance is essential to maintain optimum levels of safety and performance of the equipment.

- Before cleaning, repairing, inspecting, or storing equipment, turn off the engine and wait for the engine to cool completely.
- Keep nuts, bolts and screws tight to ensure equipment is in safe working condition.
- Do not tamper with security devices. Check its correct operation regularly.
- Any worn or damaged part must be replaced before using the equipment. Do not attempt to repair the parts, as they may damage the equipment and put your safety at risk.
- Any repair or maintenance other than those described in this section, such as carburetor adjustment, must only be performed at a TRUPER Authorized Service Center.

## General cleaning

- With a brush or compressed air clean and clear the ventilation slots of the starter unit whenever necessary.
- In the same way, periodically clean the engine cylinder fins and fan fins to remove any impurities. Failure to do so may damage the motor due to overheating.

## Air Filter Cleaning

- Remove the air filter cover.
- Remove the air filter.
- Depending on the time of use you can superficially clean the filter by tapping it lightly against a flat surface to dislodge most of the particles.
- You can also blow the filter with compressed air, do it from both sides.
- Wash the sponge filter with a solution of detergent and hot water. Let the filter dry completely. Apply a few drops of SAE 10W-30 oil to the sponge to trap the smallest airborne particles.
- Reinstall the air filter, checking that it snaps into place.
- Please clean the air filter as often as necessary to keep it clean, otherwise the engine efficiency may decrease.

## Fuel filter

- Check the fuel filter frequently.
- If the filter is dirty, it must be replaced.
- If the inside of the gas tank is dirty, rinse it with gasoline.

## Carburetor adjustment

- It is recommended to make carburetor adjustments at a TRUPER Authorized Service Center.
- Incorrect adjustment can damage the engine and void the warranty.

## Spark plug change

- The engine uses a LD AL60C spark plug with a 0.025" gap. Replace the spark plug with the same one once a year.
- With the engine completely cold, loosen the spent spark plug to the left with a wrench and remove it.
- Insert the new spark plug and hand-tighten it to the right.
- DANGER** • Be careful not to cross the thread of the spark plug, otherwise it will seriously damage the engine.
- Tighten it another half turn with the spark plug wrench.

## Exhaust and muffler cleaning

- The exhaust and muffler can become clogged with carbon deposits, depending on the type of fuel and/or conditions of use. If you notice loss of power, those deposits will need to be removed to restore performance. Go to a TRUPER Authorized Service Center to perform this service.
- The muffler is equipped with a spark screen inside the muffler. After being used for long periods of time, the screen becomes dirty and the muffler must be replaced. Go to a TRUPER Authorized Service Center for replacement.

Problem	Cause	Solution
Motor does not start.	<ul style="list-style-type: none"><li>• The switch is OFF.</li><li>• Not enough fuel.</li><li>• Oil level is too low or there is no oil.</li><li>• Gasoline is not getting into the carburetor.</li><li>• No spark in the spark plug.</li></ul>	<ul style="list-style-type: none"><li>• Turn ON the switch.</li><li>• Fill up fuel tank.</li><li>• Check oil level as indicated in page 9.</li><li>• Having the fuel tank full, verify fuel flow in the carburetor.</li></ul> <p>• Verify the spark plug spark:</p> <ol style="list-style-type: none"><li>1. Disconnect the spark plug cable, wipe clean dust around the spark plug and remove it.</li><li>2. Connect the cable to the spark plug.</li><li>3. Turn on the motor.</li><li>4. Make the spark plug electrode contact any metal part in the motor that is free of fuel.</li></ol> <p><b>▲ CAUTION</b> Is important to carry out tests in a ventilated area with no fuel spilled, otherwise an explosion may occur.</p>
The motor starts but stops unexpectedly.	<ul style="list-style-type: none"><li>• Oil level is too low.</li></ul>	<ul style="list-style-type: none"><li>• Check motor level as indicated on page 9. Start the motor again.</li></ul>
The pump is not pumping water.	<ul style="list-style-type: none"><li>• The suction hose is put from the water source.</li><li>• The filter is blocked.</li><li>• The hose is tangled.</li><li>• The suction distance is too high.</li></ul>	<ul style="list-style-type: none"><li>• Submerge the suction hose end.</li><li>• Remove obstacles from the filter.</li><li>• Straighten the hose.</li><li>• Do not go over the 26 ft height needed for suction.</li></ul>

If problems persist despite all the corrective actions contact a  
TRUPER Authorized Service Center.

In the event of any problem contacting a TRUPER Authorized Service Center, please see our webpage [WWW.TRUPER.COM](http://WWW.TRUPER.COM) to get an updated list, or call our toll-free numbers 800 690-6990 or 800-018-7873 to get information about the nearest Service Center.

AGUASCALIENTES	<b>DE TODO PARA LA CONSTRUCCIÓN</b> GRAL. BARRAGÁN #1201, COL. GREMIAL, C.P. 20030, AGUASCALIENTES, AGS. TEL.: 449 994 0537	MORELOS	<b>FIX FERRETERÍAS</b> CAPITÁN ANZURES #95, ESQ. JOSÉ PERDIZ, COL. CENTRO, C.P. 62740, CUAUTLA, MOR. TEL.: 735 352 8931
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