



Upgrade · The Home Creator Way

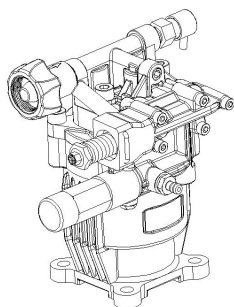
PRESSURE WASHER PUMP

MODEL: QXB-1 / QXB-2 / QXB-3/GYB-1/GYB-2

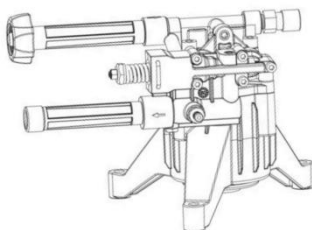
VEVOR Support Center

1	QXB-1		2	QXB-2	
3	QXB-3		4	GYB-1	
5	GYB-2				

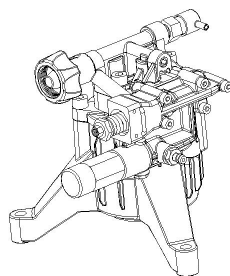
MODEL: QXB-1 / QXB-2 / QXB-3/ GYB-1/ GYB-2



QXB-1/GYB-2



QXB-2



QXB-3/GYB-1

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, the user must read the 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 shall not be used by children. Keep the appliance and its cord out of reach of children.
- Please use the product according to the intended use, warn of potential injury from misuse.
- Switch off the appliance and disconnect from supply before changing accessories or approaching parts that move in use.
always disconnect the appliance from the supply if it is left unattended and before assembling, disassembling or cleaning nature of supply>
<power / current of supply>
This machine produces high-pressure water flow. Improper use may cause serious personal injury or death. Read and understand this manual completely before operation.
- Never aim the spray gun at people, animals, electrical equipment, flammable, explosive or fragile objects.
- High-pressure water jet can penetrate skin and tissue, causing severe injury. Do not test water pressure with hands.
- Wear personal protective equipment including goggles, protective gloves and non-slip safety shoes during operation.
- Children, minors, inexperienced persons and persons under the influence of alcohol, fatigue or medicine are prohibited from operating.

- For engine-driven models, do not use in enclosed or poorly ventilated areas to avoid carbon monoxide poisoning.
- Electric models must be connected to grounded power supply. Do not plug or unplug with wet hands to prevent electric shock.
- Stand steadily during operation. Do not use on ladders or elevated positions to avoid slipping or falling.
- Do not use gasoline, solvents, strong acids, alkalis, corrosive liquids or liquids with particles to avoid equipment damage or hazards.
- Inspect hoses, spray gun and connections before starting. Do not operate if damaged or leaking.
- Before pausing or servicing, turn off the switch, release residual pressure in the line, then disconnect power or fuel supply.
- Hot parts may cause burns. Do not touch pump, engine, exhaust pipe during operation or shortly after shutdown.
- The machine generates noise. Wear hearing protection during prolonged use.
- Do not modify, remove safety devices or operate over-pressure or over-speed, which may cause burst or loss of control.
- Store in dry, ventilated area away from fire, heat sources and reach of children.

Purpose of the manual

The manufacturer has provided this manual to provide the operating instructions and the criteria to be complied with when installing, using, and maintaining the pump identified by the designation on the cover. The manufacturer supplies the original instructions in the English language.

The manufacturer may supply the original instructions in other languages in response to statutory or commercial requirements.

If the pump is sold, the seller must pass on this manual to the new owner along with the appliance.

The instructions are intended for the skilled, suitably trained operators who carry out the installation and routine maintenance procedures.

Refer to the table of contents for rapid access to the topics covered.

The manufacturer reserves the right to amend the manual without notice unless the amendments refer to the pump's level of safety.

The purchaser must ensure that the installation is designed in accordance with the instructions in this manual, statutory requirements, and the relevant national and local regulations.

The technical instructions in this "Use and Installation Manual" are the property of the manufacturer and must be treated as confidential.

There may be differences between the illustrations and the pump's actual conformation, but any such differences will not affect the clarity of the instructions. If in doubt, request the necessary explanations from the manufacturer.

The symbols shown and described below are used to identify safety risks or important information.

Danger-Warning

Identifies information or procedures the failure to comply with, which may constitute a serious threat to health and safety.

Caution

Identifies information or procedures the failure to comply with, which may constitute a threat to health and safety or cause damage.

Information

Identifies useful and important information or procedures that should be borne in mind.

TECHNICAL INEORMATION

Product Specifications and Packing List			
Model	QXB-1/GYB-2	QXB-2	QXB-3/GYB-1
Working Pressure	3050 PSI	2600 PSI	2600 PSI
Gun Closing Pressure	3500 PSI	3000 PSI	3300 PSI
Factory Set Pressure	2400-2500 PSI	2400-2500 PSI	2400-2500 PSI
Matching Horsepower	6.5-7/HP	6.5-7/HP	6.5-7/HP
Maximum Flow	2.5 GPM	2.5 GPM	2.5 GPM
Adaptive Model	196-230CC	196-230CC	196-230CC

Technical Data

The technical and performance data are stated on the cover.

The pump's intake circuit must include a filter having a capacity at least twice the pump's delivery rate, which must not cause restrictions or head losses. The recommended degree of filtration is 50-80 mesh. Maximum intake vacuum-0.25 bar, measured at the pump intake.

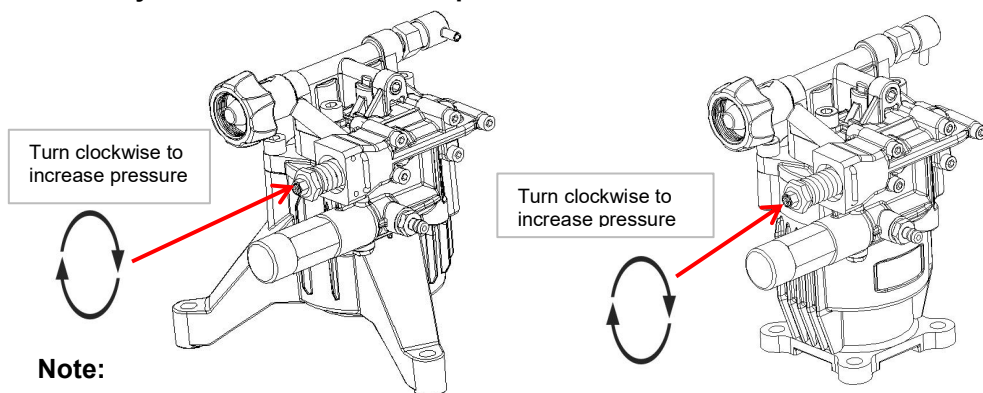
Overall dimensions

The illustrations showing the overall dimensions are provided in the annexes.

Environmental operating limits

The pump operates correctly at an ambient temperature between 10 and 40°C, with a relative humidity of 80%.

Note: To match engines with different power, the factory set pressure will be less than the rated maximum pressure. Just adjust the pressure limiting valve if you need to increase the pressure.



Note:

1. Turn clockwise to increase pressure.
2. Adjustment tools: 2.5 mm Allen wrench and 17 mm open-end wrench.

OPERATION NOTICE

1. Prepare

Before use, connect the matching outlet pipe, inlet pipe, water absorption filter, etc., and check whether the fasteners and pipe joints are loose. Connect the inlet and outlet pipes of the pump, and install a filter device of no less than 40 mesh/inch at the inlet end to avoid debris entering the pump and affecting the normal operation of the pump.

2. Adjust the pressure

The pump has been adjusted to the rated pressure, and you do not need to adjust it again. If you need to adjust the low pressure, you should first turn on the pressure washer gun and then use the special pressure regulating tool to adjust the pressure regulating screw while spraying so that the pressure reaches the predetermined value, and you can start to work.

Danger-Warning

Do not aim the spray gun at people, animals, and equipment!

3. Precautions for use

When working, it should be noted that the pressure of the pump should not exceed the maximum pressure; otherwise, the pump pressure should be lowered to avoid damage to the pump overload. The pump adopts an internal backwater structure. When the water is shut down, the operation time should not exceed 90S. If it exceeds 2 min, it is recommended to shut down the equipment! It is normal to have drop oil or drop water during operation but the leakage does not exceed 1 ml/min (or 10 drops/min).

4. Applicable occasion

This pump is suitable for high-pressure cleaning and all kinds of commercial or civil needs high-pressure occasions.

5. Medium and temperature

The conveying medium of the KX series pump is clear water, and the highest water inlet temperature shall not exceed 40°C. Too high inlet water temperature will cause damage to the pump and affect the service life of the pump. For the pump group that runs continuously for a long time, our company suggests using the booster pump for inlet water. The rated flow of the booster pump is at least twice the rated flow of the pump, and the output of the booster pump should be about 2-3 bar. If the user delivers other media other than clean water or the inlet water temperature is higher than 40°C in actual use, please contact our relevant personnel.

6. Maximum flow rate and maximum pressure

The flow and pressure values of the pump indicated in the technical parameter table describe the maximum performance of the pump. The maximum rotational speed and pressure values used shall not exceed their set value.

7. Power selection

KX series pump is driven by a gasoline engine. When choosing the power, the power value is higher than the set parameters to ensure the performance of the pump.

Misuses

Do not put the pump into service until the plant or machinery in which it is incorporated has been declared compliant with the relevant national and local legal requirements.

Do not use the pump in a potentially explosive atmosphere.

Do not use the pump for flammable, toxic, or corrosive liquids or those with unsuitable density. Do not take in liquids at temperatures higher than those specified in the technical data.

Do not use the pump for the supply of drinking water.

Do not use the pump on products for human consumption.

Do not use the pump on pharmaceutical products.

Residual risks

Even if the safety regulations and information provided in the manual are complied with, the residual risk described below is still present during the use of the pump.

- **Thermal hazard:** Depending on the temperature of the liquid pumped, the pump may reach high temperatures when in operation. The designer of the installation must therefore bear this in mind and provide the appropriate measures and warning signs for staff.

MAINTENANCE AND MAINTENANCE

1. Idle pumps and water pipes for long periods of time.

- a. Run the pump with clean water for a few minutes.
- b. After turning off the water source, run the pump for 10 seconds, and empty the water in the pump and pipeline to prevent scale.
- c. Blow-dry the pump with compressed air.
- d. Take appropriate protective measures to avoid environmental impact.
- e. Use the tap water to run for 2 min until the gun is out of water. If there is no water, please stop to check.

* When choosing the gasoline engine as the power, check the oil quantity of the gasoline engine before each start.

* When the pump performance is significantly reduced, it shall be maintained immediately.

* Continuous working time, water temperature, and cleanliness of water all affect the performance of the pump, so users can adjust the maintenance time according to the actual use situation.

2. Inspection and repair

- a. Often check whether the connection part is loose.
- b. It is normal for the moving seal to drop oil or water during operation, but the dripping amount does not exceed 1 ml/min (or 10 drops/min); otherwise, the oil seal or water seal should be replaced.

SAFETY INFORMATION

General safety rules

Most workplace accidents and injuries are caused by carelessness and failure to comply with common sense and safety rules.

In most cases, accidents can be avoided by predicting their possible causes and proceeding with the necessary care and attention.

A careful operator who follows the rules is the best guarantee against accidents.

Before installing and using the pump, the operators and other staff must read and understand the instructions in the manual provided and the details of the installation design.

Do not tamper with, disarm, or by-pass the safety devices, as this may cause serious threats to health and safety. Do not release pollutants into the environment.

Dispose of waste in accordance with statutory requirements.

Before performing any procedure, adopt appropriate safety measures in accordance with the relevant statutory occupational safety requirements and comply with the safety regulations in the manual.

INSTALLATION INSTRUCTIONS

Safety recommendations for installation

Take all possible precautions to allow the pump to be installed in a safe, risk-free manner.

All installation phases must be taken into consideration when designing the machinery or plant in which the pump is to be installed.

The design must consider all mounting points, the means of transmission of the energy sources, and the protective and safety devices required by the relevant regulations to prevent the risk of injury.

General guidelines on water supply connection

The pump's water supply connection can be made in one of the ways listed below.

Connection to the mains water supply.

Connection to a tank (gravity-feed).

Connection to an external pump (force-feed).

The following requirements must be met for all types of connection.

- 1) The pump must be supplied by means of a crush-proof hose of suitable diameter for the pump's intake connection (see "Technical Data").
- 2) There must be no restrictions or kinks in the hose.
- 3) A suitable filter must be installed at the pump intake (see "Technical Data").
- 4) All connections between the unions and the intake line must be sealed to prevent the pump from sucking in the air.
- 5) The connections and pipes must be suitable for the operating pressure and the pump delivery rate and must comply with the relevant regulations.
- 6) To ensure operating safety install a relief valve (by-pass valve) suitable for the pump's technical data and with a suitable setting downstream of the pump.
- 7) The relief valve dump line must never be connected to the pump intake line.
- 8) Install a pressure damper downstream of the pump to minimize the water hammer effect in the delivery pipeline.

Connection to the mains water supply

The connection must comply with the recommendations provided.

The mains water system must have a flow rate twice the pump's rated delivery rate and a pressure of 2-3 bar.

INSTRUCTIONS FOR USE

Safety recommendations for use

Before start-up, the operator must perform the necessary safety checks.

In the event of leaks from the pressurized pipes, stop the pump at once and remove the cause of the leak. Do not operate the pump above the limits set by the manufacturer to increase its performance.

If the system is to be shut down with ambient temperatures close to 0°C, run the pump without water for 10 seconds with the end of the delivery pipeline open to empty the system and pump of water and prevent ice from forming.

MAINTENANCE INSTRUCTIONS

Safety recommendations for maintenance

Before doing any maintenance work, depressurize the water system and isolate the pump from all energy sources.

When the jobs are done, before restarting the pump, check that no tools, rags, or other materials have been left close to moving parts or in hazardous zones.

Replace any excessively worn components with original parts and use the lubricants recommended by the manufacturer.

Dispose of the worn-out components and lubricants in accordance with the relevant statutory requirements.

Carry out the routine maintenance procedures specified by the manufacturer to keep the pump safe and performing well.

MAINTENANCE INSTRUCTIONS

Inspecting the pump mounting

Check that the pump's fixing screws have not become loose.

If necessary, tighten them with the driving torque stated in the installation design.

Inspecting the connections and pipes

- Inspect the connections for leaks.

Leaks can normally be dealt with by tightening the connections properly.

If leaks from the intake pipeline connections are noticed, the seals must be repaired.

- Inspect the hoses.

If the pipes show signs of aging, breakage, swelling, rubbing, etc., they must be replaced.

Inspecting the Filter

- Inspect the filter cartridge.

If the filter cartridge is fouled or damaged, refer to the filter manufacturer's instructions for details on how to restore the filter cartridge to its original filtering condition.

Warning

When replacing the main and secondary water seal, apply grease on the plunger rod.

Please use the original accessories during maintenance!

DEBUGGING

Problem	Cause	Remedy
Pump does not reach the specified pressures	Pump sucking air	Restore the tightness of the intake line
	Intake flow rate insufficient	Increase the size of the intake pipelines
		Remove any kinks from the pipes
		Increase the filter capacity or clean the filter cartridge
		Increase the rpm to the rated speed
	Worn intake and delivery valves	Replace the valves(1)
	By-pass valve seat worn	Replace the valve
	Worn gaskets	Replace the gaskets(1)
Irregular variations in pressure	Unsuitable, worn nozzle	Replace nozzle
	Worn intake and delivery valves	Replace the valves(1)
	Valves blocked by dirt	Clean the valves(1)
	Air being sucked into a system	Restore the tightness of the intake pipeline connections
Vibrations on pipes	Worn gaskets	Replace the gaskets(1)
	Valves jammed	Replace the valves(1)
	By-pass valve malfunction	Replace the by-pass valve
	By-pass valve dump line is too small	Increase the size of the by-pass valve dump line
	Pressure damper flat	Restore pressure damper to correct inflation pressure
Pressure drop	Pump sucking air	Restore the tightness of the intake line
	Nozzle worn	Replace nozzle
	Worn intake and/or delivery valves	Replace the valves(1)
	Valves blocked by dirt	Clean the valves(1)
	By-pass valve seat worn	Replace the valve
	Worn gaskets	Replace the gaskets (1)

(1) Operations that must be carried out at an authorized service center

TROUBLE SHOOTING

Problem	Cause	Remedy
Pump noisy	Air being sucked into the system	Restore the tightness of the intake pipeline connections
	Intake and/or delivery valve springs broken or collapsed	Replace the valves (1)
	Valves blocked by dirt	Clean the valves (1)
	Worn bearings	Replace the bearings (1)
	Intake liquid temperature too high	Reduce liquid temperature
Pump overheating	High pump operating pressure	Reduce the pressure to the rated values
	Drive belts too taut	Restore correct belt tension
	Pulley or drive coupling alignment poor	Restore the correct alignment
Water in oil	Guide piston gaskets worn	Replace the gaskets (1)
	High humidity percentage in air	Change the oil twice as often (as stated in the "Routine Maintenance" table)
	Worn gaskets	Replace the gaskets (1)
Oil leaks from dump lines underneath the pump	Worn gaskets	Replace the gaskets (1)
	Worn pistons	Replace the pistons (1)
Oil leaks from dump lines underneath the pump	Guide piston gaskets worn	Replace the gaskets (1)

(1) Operations that must be carried out at an authorized service center

GENERAL INFORMATION

After-Sales service procedures

To request after-sales service (in the event of a pump malfunction or failure, etc.), contact your nearest service center or the manufacturer.

When requesting after-sales services, always state the pump's data plate data and the type of problem.

*There are any minor changes to the numbers included in the user manual without prior notice.

