

# Maintenance instructions for Water truck

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**For your safety, before the operation, Please read carefully and follow the safety precautions in this manual, Know and understand the manual, besides the chassis, it also need pay attention to sprinkler accessories, such as pump, power take-off, cooling system maintenance.**

## **Maintenance method:**

1. Because there is a rubber pad between the tank body and the truck beam, after the water tank is loaded, the U-bolts will become loose due to the deformation of wood glue. Therefore, the U-bolt must be tightened regularly after heavy load. (especially when the new truck is used)
2. Regularly check the sealing condition of the connecting parts, switches and suction hose of the water system of the sprinkler. If any leakage is found, the sealing parts shall be recovered or replaced immediately.
3. Regularly check the fixation of water tank, pump bracket and support, and all nuts should be tightened to ensure reliable connection
4. Regularly check the connection between the power take-off device of the sprinkler and the water pump. The connection should be reliable and the operation is normal. If oil leakage is found in the power take-off and water pump, the sealing parts should be replaced
5. Regularly check whether there is any blockage in the liquid outlet and outlet, In case of blockage, the debris shall be cleaned up in time.
6. The medium passing through the ball valve should not be too dirty, so as not to damage the sealing ring and reduce the service life of the ring valve. All ball valves should not be in the semi open state for a long time, otherwise the sealing ring will be deformed.
7. The filter screen of the pump should be removed and cleaned frequently to prevent the dregs from blocking the filter screen and affecting the flow rate
8. If the water pump stop use for a long time, it should be disassembled, cleaned, and coated with a layer of antirust oil on each processing surface, and then assembled and properly kept.

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## OPERATION CAUTIONS:

- a) Before starting, check whether there is enough oil in the gearbox.
- b) Note: after a week of using the new pump, the gear oil should be drained and replaced with a new one.
- c) Check whether there is enough liquid in the pump; check whether the drain valve is closed
- d) Open a small amount of outlet pipe valve ,and open enough inlet pipe valve.
- e) The suction inlet of the pump should be submerged under the level of 30cm to prevent air inhalation.
- f) Since the pump starts the self-priming process, it is necessary to increase the speed properly to make the pump reach or slightly higher than the rated speed, because a long time of low-speed operation will prolong the self-priming time, or even fail to complete the self-priming operation, When the outlet pressure gauge shows the pressure, it indicates that the pump has started to work normally.
- g) Within the normal self-priming height, if the pump has not been sucked in 2 minutes after starting, please stop the pump immediately, If the pump not leak, it is that the pump inlet pipe is leaking or blocked. Please check and confirm, and take corresponding measures before running the pump.
- h) When the pump is finished, close the outlet pipe valve gradually, and then stop the prime mover.
- i) Add diversion water (at least two tubes water).to the pump before it works. to avoid the pump running empty, the water inlet must be closed after filling.
- j) When absorbing water, the inlet pipe system must maintain a certain vacuum degree to suck water in, The water inlet system must be sealed reliably, the hose shall not be damaged and cracked, otherwise, air leakage will occur, and the water will not be absorbed, otherwise, it will cause air leakage and can't suck water in .
- k) No matter before or before watering, the power take-off device must be in gear when parking,When preparing to sprinkle water, turn on the nozzle switch to avoid excessive pressure and flushing the water cushion.

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## Common faults and troubleshooting

Fault	Causes	Troubleshooting
<b>Pump can not self suction</b>	1、 No liquid storage or insufficient in the pump body	1、 Add enough liquid storage
	2、 Air leak in suction line.	2、 Check and eliminate air leakage
	3、 Too low speed	3、 Adjust speed
	4、 Suction range is too high or suction line is blocked.	4、 Reduce suction range or shorten suction line.
	5、 The pump oil seal is damaged,affect its vacuum degree.	5、 Repair or replace
<b>Insufficient pressure</b>	1、 Filter screen and water pump blades blocked	1、 Remove the blockage
	2、 Low power and low speed	2、 Increase the throttle or replace PTO.
	3、 Inlet or outlet valve not fully opened.	3、 Fully open the inlet or outlet valve
	4 . No diversion water in the pump, causing dry burning	4、 Add enough diversion water
	5. Impeller in the water pump is worn and deformed	5、 Repair or replace
<b>Too much consumption of Pump shaft power.</b>	1、 Too large flow	1、 Reduce the flow
	2、 Pump speed is too high	2、 Lower the speed properly.
	3、 The pump shaft is distorted or the impeller is jammed	3、 Correct or replace
	4、 The flow passage in the pump is blocked or jammed	4、 Remove the blockage
<b>Excessive noise and vibration of</b>	1、 Unstable base	1、 Reinforce

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<b>pump</b>	2、 Cavitation	2、 Adjust the working condition
	3、 The bearing is seriously worn	3、 Replace
	4、 Impurities in pump or inlet pipe	4、 Remove the impurities

