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# High Pressure Washer

## OPERATION MANUAL



## OPERATION PROCESS

### INSTRUCTION BOOK Warning

**Read the instruction carefully before operation.**

**This item of high pressure washer is a multifunctional machine with exceptional reliability & safety assurance.**

**The model may be used to wash and clean various kinds of building, vehicles, boats, paths, tiles and decks.**

1. Please put the lubrication oil into lubricating oil hole to cover the middle position of oil mark before starting the motor
2. Put the suction pipe components on the water inlet connection and use hose clamp to fasten, put the other end of set in the water tank or water taps. Tank water level cannot under machine plane, watering into the inlet hose when switching on the trigger. Then wait the air in the machine is drained away, the washer can be entered operating state
3. Install the nut of the hose on the water outlet which located on the front of the cleaner, turn the nut by hand, and install the other side of the hose with the screw in the spray gun handle on the bottom of the interface, using a wrench to tighten the screw.
4. Lubricating oil must be replaced after accumulative 30 hours operation with new cleaner (later, each 150-300 hours lubricating oil must be replaced once).  
Tip: Volume of oil lubricating oil must be checked, when the oil quantity is lower than the intermediate position of the oil mark, it should be added in time.
5. Ensure the switch of the cleaner is off before the plug into the power socket
6. It can only be used when water flow out of the spray after turn on the power switch on the washing machine and switch on the spray gun trigger valve. In order to prevent the motor burn down, please do not turn on the motor when no water flow out.
7. When using a tank or cistern, water must be clean.
8. Run the machine 10-20 seconds dehydrated to discharge water in the pump if not use the machine for long term.
9. Professional integrated circuit, working voltage range: 200 v to 242 v, 50HZ
10. The residual action current is 5-10ma and 10-30ma, the electric current is in the safety zone

**WARNING**

**This manual must be read before beginning installation of the unit. High pressure water jets are potentially dangerous if used incorrectly. In particular, do not direct the water jet towards people or animals, electrical equipment or the unit itself.**

Keep this owner's manual handy, so you can refer to it at any time.

This owner's manual is considered a permanent part of the high pressure washer and should remain with the appliance if resold.

Your safety and the safety of others are very important. We have provided important safety messages in this manual and on the machine. Please read these messages carefully.

**READ THIS OWNER'S MANUAL CAREFULLY. Pay special attention to these symbols and any instructions that follow:**

**DANGER**

**Indicates serious injury or death will result if instructions are not followed.**

**WARNING**

**Indicates a strong possibility that serious injury or death could result if instructions are not followed.**

**CAUTION**

**Indicates a possibility that minor injury or an result if instructions are not followed.**

**NOTICE**

**Indicates that equipment or property damage can result if instructions are not followed.**

**NOTE: Gives helpful information.**

If a problem would arise, or if you have any questions about your high pressure washer, consult your appliance dealer.

## IMPORTANT SAFETY INSTRUCTIONS

### SAFETY “MUST NOT DO”

**WARNING** Do not use the appliance with inflammable or toxic liquid, or any products which are not compatible with the correct operation of the cleaner.

**WARNING** Do not use the appliance within range of persons unless they wear protective clothing and safety goggles.

**WARNING** Do not use the appliance if a supply cord or important parts of the appliance are damaged, e.g. safety devices, high pressure hoses, trigger gun.

**WARNING** Do not direct the water jet towards persons or animals, electrical equipment or the machine itself.

**WARNING** Do not use the appliance outdoors in case of raining.

**WARNING** Do not allow children or unprofessional persons to use the appliance.

**WARNING** Do not touch the plug and/or socket with wet hands

**WARNING** Do not use the appliance if the electrical cable is damaged.

**WARNING** Do not use the appliance if the high pressure hose is damaged.

**WARNING** Do not jam the trigger in the operating position.

**WARNING** Do not tamper with or alter the calibration of the safety valve.

**WARNING** Do not alter the original diameter of the spray nozzle.

**WARNING** Do not leave the appliance unattended.

**WARNING** Do not move the appliance by pulling the electrical cable.

## SAFETY“MUST DO”

**WARNING** All electrical conductors **MUST BE PROTECTED** against the water jet.

**WARNING** The appliance **MUST ONLY BE CONNECTED** to a correct earthed power supply.

Use of a safety residual current circuit-breaker(R.C.C.B) will provide additional protection for the operator (30mA).

**WARNING** The high pressure jet may cause loose particles to be propelled at high speed, therefore protective clothing and safe goggles **MUST BE WORN**.

**WARNING** Before carrying out any work on the cleaner.**DISCONNECT** the plug from the electrical supply socket.

**WARNING** Before pressing the trigger, **GRIP** the gun firmly to counteract the recoil.

**WARNING** Maintenance and/or repair of electrical components **MUST** be carried out by qualified staff.

**WARNING** **DISCHARGE** residual pressure before disconnecting the high pressure hose.

**WARNING** Before using the appliance, **CHECK** every time that the screws are fully tightened and that there are no broken or worn parts.

**WARNING** Only **USE** detergents which will not corrode the high pressure the hose/pump/electrical cable. **DO NOT USE** bleach,alcohol, petrol, hydrochloric acid and so on as the.which is easy to burn and erode.

**WARNING** The appliance operates at fluid pressures and high enough to penetrate human and animal flesh, which could result in amputation or other serious injury. **IF CAUSING HARM,SEEK MEDICAL HELP IMMEDIATELY!**

**WARNING** Only use chemicals designed for pressure washer using or mild soaps and chemicals compatible with the aluminum and brass parts of the pressure washer.

**WARNING** The machine uses normal temperature and the temperature for the inlet water should be not over 50 °C .The machine cannot be used with the temperature of 0°C or under 0°C .

## APPLICATION FIELD

- To maintain and wash the diversified vehicles, project machinery, architecture machinery and agricultural machinery.
- To maintain and wash the army vehicles, tanks, naval vessels, planes, and other military machinery.
- Wash and disinfect the diver sited harbor containers.
- Wash sanitation recovery and disinfection at stock farm, breeding house and slaughterhouse.
- Daily wash for the building glass and the outside wall.
- Wash and disinfect the environment of town-folk square, carnie, hospital, hotel, restaurant and the courtyard.
- Wash and disinfect the civicism sanitary station, garbage station, and the garbage transferring station.

## PUMP OPERATING FEATURES

### 1) CHANGING OIL INLET PLUG

**CAUTION**

The red plug on the pump is specially designed for transportation, before using the unit, please replace the red plug with the yellow plug .

### 2) PRESSURE REGULATOR

The pressure setting is preset at the factory to achieve optimum pressure and cleaning.

**CAUTION**

Do not try to increase pump pressure, a higher pressure setting than the factory pressure setting may damage the pump.

**CAUTION**

Do not try to turn pressure regulator knob past the built-in stop line otherwise damage to the pump will be resulted.

### 3) CLEANING NOZZLES

If the nozzle is clogged with materials such as dirt, excessive pressure may develop. If the nozzle becomes partially clogged or restricted, the pump pressure will pulsate. Clean the nozzle immediately.

## OPERATING INSTRUCTIONS

### 4) CHECK BEFORE OPERATION

- Check if every nut and bolt are tight enough and check whether the supply power and water can meet the demand of the machine.
- **Checking the water filter:** It is important to check water filter before using the machine. **Water inlet not over the 3Mtrs.**

#### CAUTION

A well-cleaned filter means good performance and long life for your machine.

- Connection to water supply: Connect the water supply to the INLET port by a reinforced hose.

#### CAUTION

The machine does not have flow switch, water source **must provide 15L per minute.**

#### CAUTION

The temperature for the inlet water should be not over 50°C

Water inlet positive or negative both must be 3mtrs  
Or Less is okay.

- **Connection to electrical supply:**
- 1) Make sure that the mains voltage is the same as shown on the identification label on the machine.
  - 2) **WARNING** Make sure that the plug complies with your local regulations, and it is provided with ground connection(earth).
  - 3) **WARNING** The power outlet must be protected by a residual circuit breaker with a sensitivity of less than 30mA
  - 4) Do not connect other appliances to the same outlet.
  - 5) **CAUTION** Insert the plug after checking the switch on the machine in the OFF position.

### 5) STARTING THE MACHINE

- When you finish the washing, switch off the unit.
- Hold the gun in the open position for a few seconds to drain the water from the hose.

## CHANGE PUMP OIL

- The level of the oil must be checked periodically.
- The most important that the oil must be changed after the first 50 hours of work and successively every 100 hours.
- In any case we suggest to change the oil at least once a year.
- **Oil type: SAE 15W-40 or equivalent motor oil.**

## MAINTENANCE

- If the machine will not be run for a long time, you should drain the water in the machine, the way is to break the water supply system with water inlet hose, run the machine without water supply for about half minute, and start the gun to drain the extra water. Break the water outlet hose away from the machine, and keep the hose well.
- The user should often clean the strainer to avoid the pressure is no enough due to the jam of the strainer.
- If the electric cable is damaged, only the professionals have qualification to exchange.

- **precautions in the case of storing and/or freezing:**

If the unit is to be stored in a place where there is risk of freezing, or it is to remain unused for more than three months, we recommend placing some antifreeze into the pump, (a normal antifreeze as used in your vehicle is sufficient). In any case, to avoid any risk, we suggest you to place the unit in a warm room for a few minutes before using.

### WARNING

Long periods of disuse may lead to the formation of lime scale deposits. Working through the hole on the rear, release the motor impeller several times using a screwdriver. Then remove the screwdriver and proceed with the restart operations.

## TROUBLE SHOOTING

### FOR QUALIFIED PERSONNEL ONLY

FAULT	CAUSE	REMEDY
Pump running normally but pressure does not achieve rated values	Pump sucking air Valves worn or dirty Nozzle incorrect or worn Worn piston packing Dirty filter	Check that hoses and fitting are air tight Check , clean or replace Check and replace Check and replace Check and clean
Fluctuating pressure	Valves worn dirty or stuck Pump sucking air Worn piston packing Dirty filter	Check, clean or replace Check that hoses and fitting are air tight Check and replace Check and clean
Pressure drops after period of normal use	Nozzle worn Valves worn,dirty or stuck Worn piston packing Dirty filter	Check and replace Check,clean or replace Check and replace Check and clean
Pump noisy	Pump sucking air Valves worn,dirty or stuck Worn bearings Water top hot Dirty filter	Check that hoses and fitting are air tight Check, clean or replace Check and replace if necessary Reduce temperature Check and clean
Pressure of water in oil	High humidity in air Piston packing and oil seal worn	Check and change oil twice as often Check and replace
Water dripping from under pump	Piston packing The O-ring of piston guide or retained worn	Check and replace Check and replace
Oil dripping	Oil seal worn	Check and replace
The motor does not start when switched on	The plug not well connected or lack of power supply	Check plug, cable and switch
When switching on the unit,the motor hums but does not run	The mains voltage is insufficient,lower than the minimum required The pump is stuck or frozen incorrect extension cable	Check that the mains power supply is adequate Follow the precautions at page 9.
The motor stops	Tripped thermal overload due to overheating	Check that the mains voltage corresponds to the specifications: wait a few minutes before turning on the unit again

To mitigate potential voltage drop issues within the Indian market, the utilization of 4 sq mm wiring is recommended.

***It is advisable that the Total Dissolved Solids (TDS) level in water does not exceed 800.***

Water out let size is 1/4mm & length is 20mtrs.