

Operation Manual

for Oil Steam Car Wash



Contents

1. Components	1
2. Names of parts	2~5
3. Drawing	6
4. Operation method	8
5. Maintenance	9
6. Troubleshooting	10~11
7. Specifications	12

1. Components

- Main Body and accessories



Oil Steam car wash



Steam Gun + Steam Hose

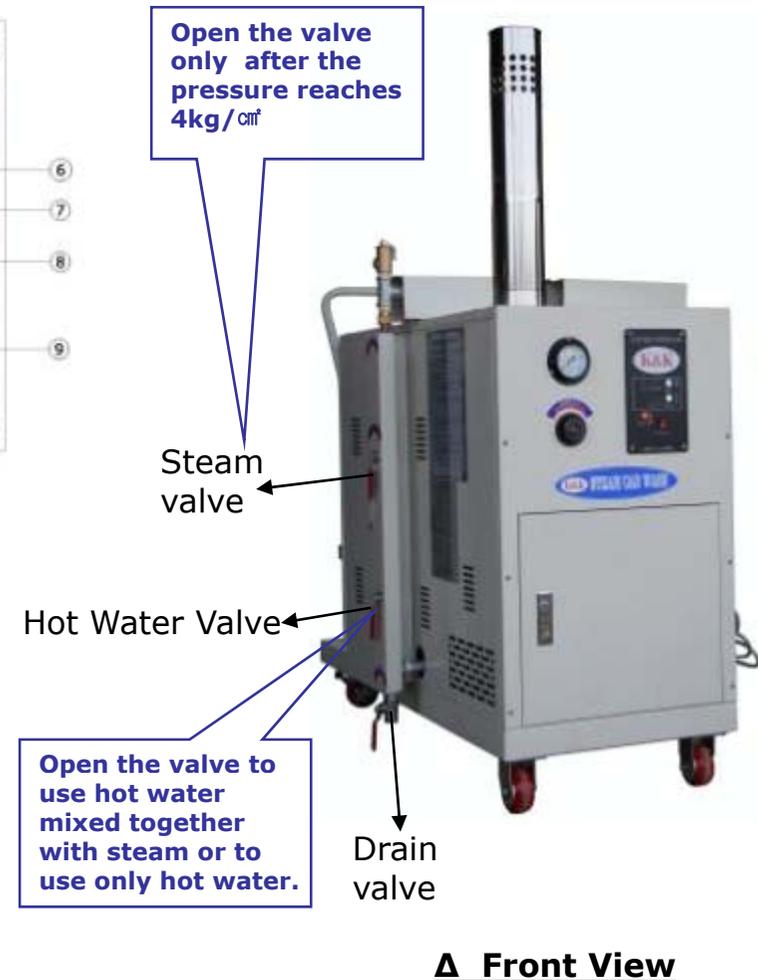
2. Names of parts

A. Names of the Main Body Parts



- ① Heater 1
- ② Drive
- ③ Heater 2
- ④ Low water level
- ⑤ Heater 2 S/W
- ⑥ Water supply
- ⑦ Heater 1 S/W
- ⑧ Pump S/W
- ⑨ Drive S/W

Δ Control switch



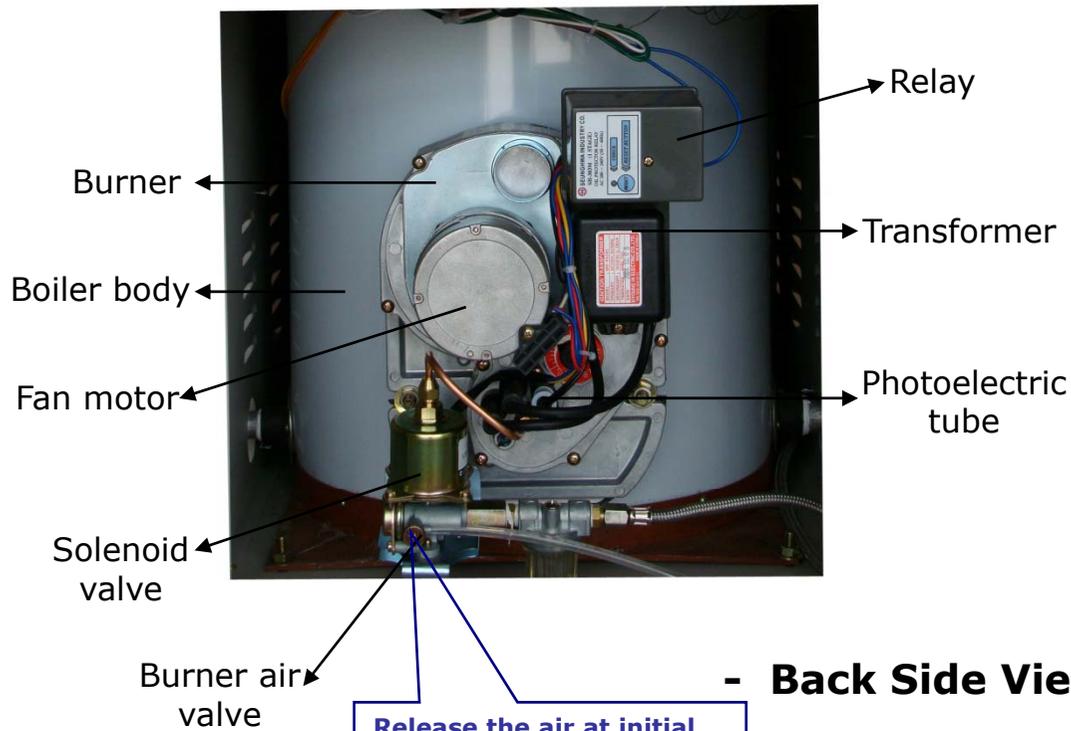
B. Names of inner side parts - 1

Warning! Don't adjust the PB arbitrarily. Prohibited to use over 4kg/cm²



Pressure Breaker

Safety valve releases steam when the pressure is over 7kg/cm², thus please do not adjust the valve arbitrarily.

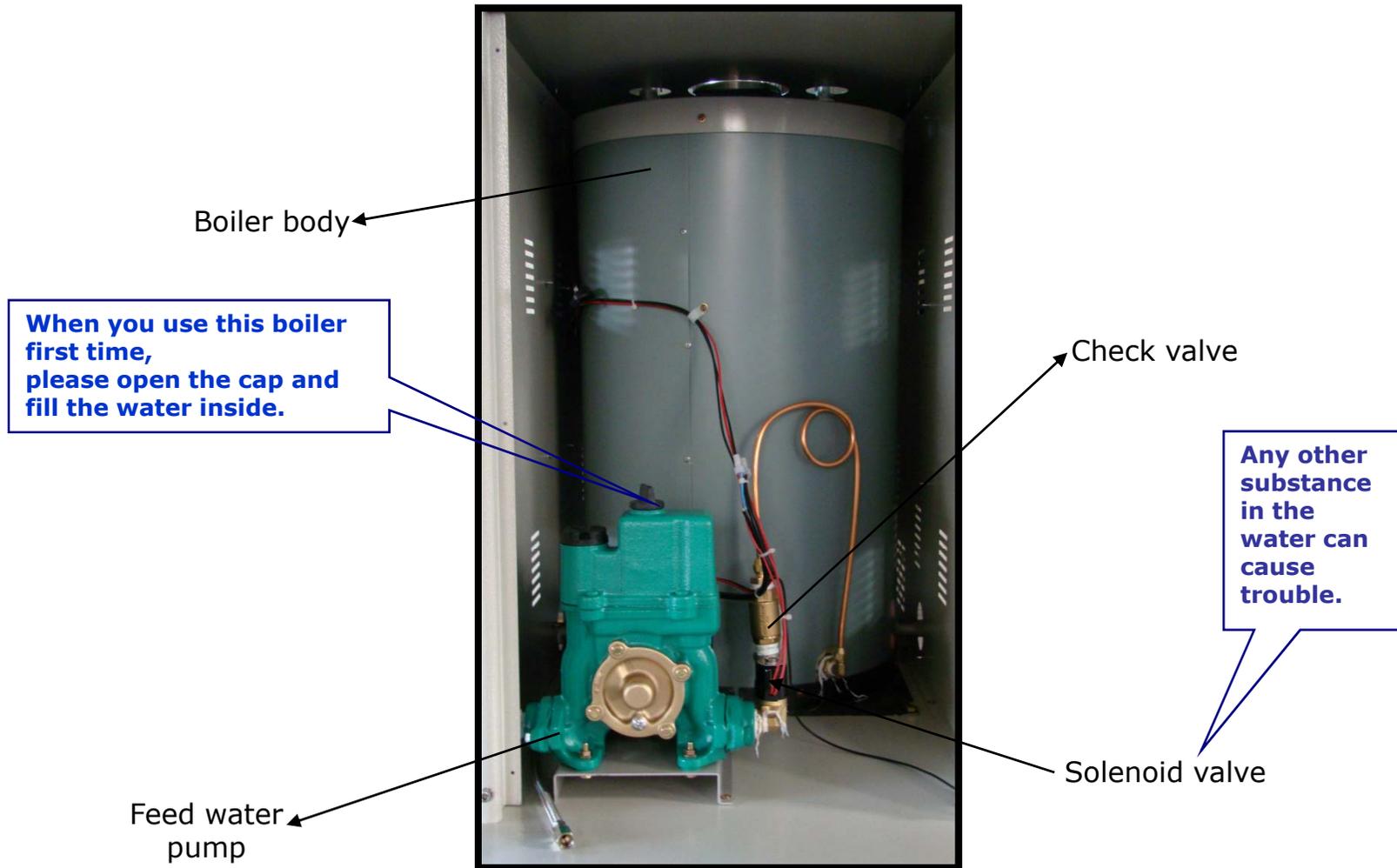


Release the air at initial use to release the air inside the Burner. Or, it can cause a trouble.



- Back Side View -

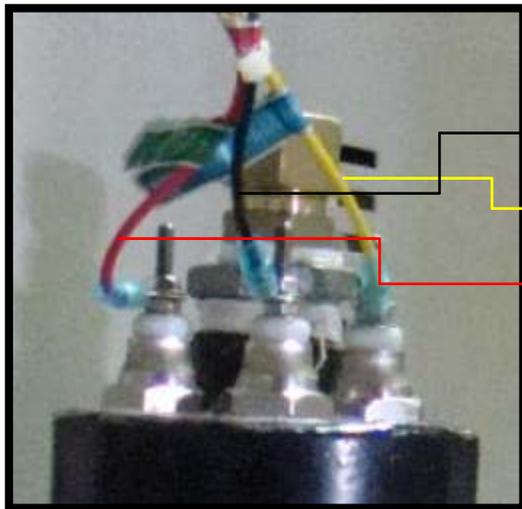
B. Names of inner side parts - 2



- Back inside View -

C. Water sensor parts

Low, Mid & High Level Sensor



- Low Water Level Sensor(Black color)
- Mid Water Level Sensor(Yellow color)
- High Water Level Sensor(Red color)



→ Water level
Sensor rod

3. Drawing

4. Operation Method

- First Step : Turn on the power

1. Turning on the power switch, the lights of " power", "drive", "water supply" and "buzzer" will be lit up and water supply will be started .
2. When set amount of water is supplied, heat light will be turned on automatically and the pre-set steam pressure will be reached within 10 minutes. The pressure is limited to 4kgs.
3. All these functions will work automatically as soon as the power switch is turned on.

- Second Step : After use

1. Close the steam valve tightly.
2. Turn off the power and close the water supply valve.
3. If the machine is not in use for a long time, open the drain valve and Discharge the water from the tank.

5. Maintenance

- **Remove moisture and dust from the Machine and keep it always clean.**
- **Use tap water (underground water can shorten the life of car wash)**
- **If not in use for a long time, please drain water from the unit.**
- **Store the Machine at a place where the temperature is always not lower than 5 °C.**
- **(Be careful not to be frozen as it may cause damage.)**
- **Remove water completely at 1Kg/cm² of pressure.**
- **Always follow the instruction of the manual and don't handle such parts like pressure breaker and electric panels & safety valve arbitrarily.
When it is required to repair such parts, contact service man or the manufacturer.**
- **Any trouble caused by arbitrary handling is subject of no warranty.**
- **When not in use , please reconfirm to turn off "Power" and "Water Supplies".**
- **Turn off the power in case of natural disasters, electric work, or in case of any other emergencies.**
- **Never adjust the Over Heating Protector freely over 200 °C.**
- **Don't strip off the short hose cover from the main hose.**

6. Trouble Shooting

Symptoms	Causes	Actions
Fan rotates continuously.	* Failure of main controller.	* Replace it. * Replace the magnet for air blower motor.
Fan does not rotate.	* Disconnected fuse.	* Check the insulation of control panel or internal wiring and repair it. * Replace fuse.
	* Disconnection of coil of electromagnetic contactor or bad wiring.	* Repair or replace it after check.
	* Defective pressure controller.	* Replace it.
	* Low water level	* Supply water.
	* Bad electrodes.	* Replace it.
	* Defective motor.	* Replace it.
Motor does not rotate.	* Power problems.	* Supply power.
	* Disconnection of fuse.	* Replace fuse.
	* Check power cord.	* Replace power cord.
	* Check motor line cut.	* Repair it at special plant.
	* Check foreign materials in the pump impeller.	* Disassemble and clean the casing cover.
Motor rotates but the water is not supplied.	* Water is not supplied to the boiler. * The inlet or outlet valve of pump is closed.	* Turn off power and open the feed water valve in the boiler.
	* Air leaks from mechanical seal.	* Replace the mechanical seal. * Open air valve in the pump and boiler pipes to discharge air.
	* The feed water strainer is clogged.	* Disassemble and clean the strainer.
	* Incorrect rotation direction of motor.	Change rotation direction. (change wire connection)

Pump does not rotate.	* Rust or foreign materials on the impeller.	* Remove and clean it.
	* Rust or foreign materials on the pump rotating parts. PUMP	* Disassemble and clean them.
Pump and motor rotate but the water is not supplied.	* The suction pipe is filled with air.	* Check the damaged hood valve and repair it.
	* Foreign materials in the strainer of suction valve and discharge valve.	* Disassemble it and remove the foreign materials.
	* No sufficient rotation numbers.	* Check the voltage and frequency of power.
	* Impeller and mechanical seal are worn out due to the long time use.	* Repair it at manufacturer's plant.

7. Specifications

Model	Type: SMCW-O30
BURNER POWER	220V / single phase
DIMENSION	680mm × 1090mm × 1410mm
NET WEIGHT	145 kg
HOSE LENGTH	10 M
FUEL FOR CONSUMPTION	2.4 ℓ/Hr
STEAM PRESSURE	4 Bar
PREHEATING TIME	5~7 Min
STEAM PRODUCTION CAPACITY	30KG/Hr