

ROCKWORTH
CONFIDENCE AT WORK

AO680/1400

**120BAR • 1500W
HIGH PRESSURE WASHER**



Always Read Instruction Manual
Retain for Future Reference

Fig.1

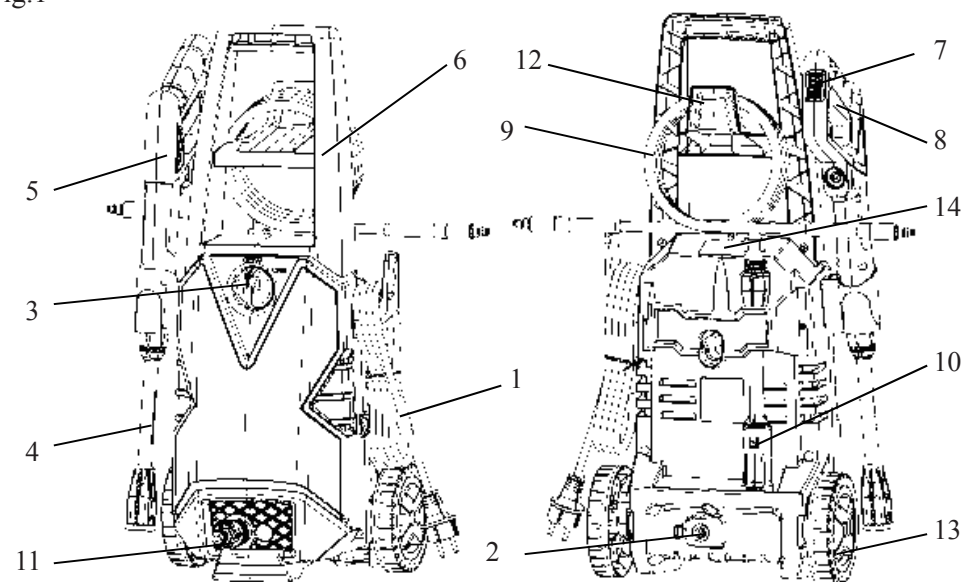


Fig.2



Fig.3



Fig.4

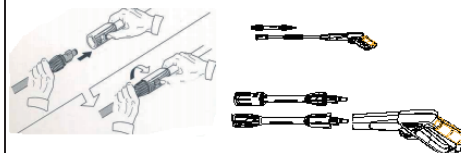
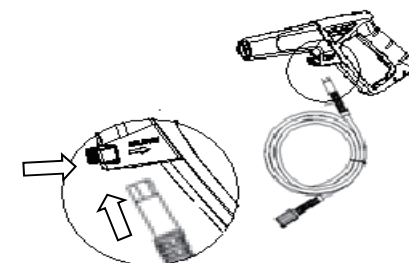
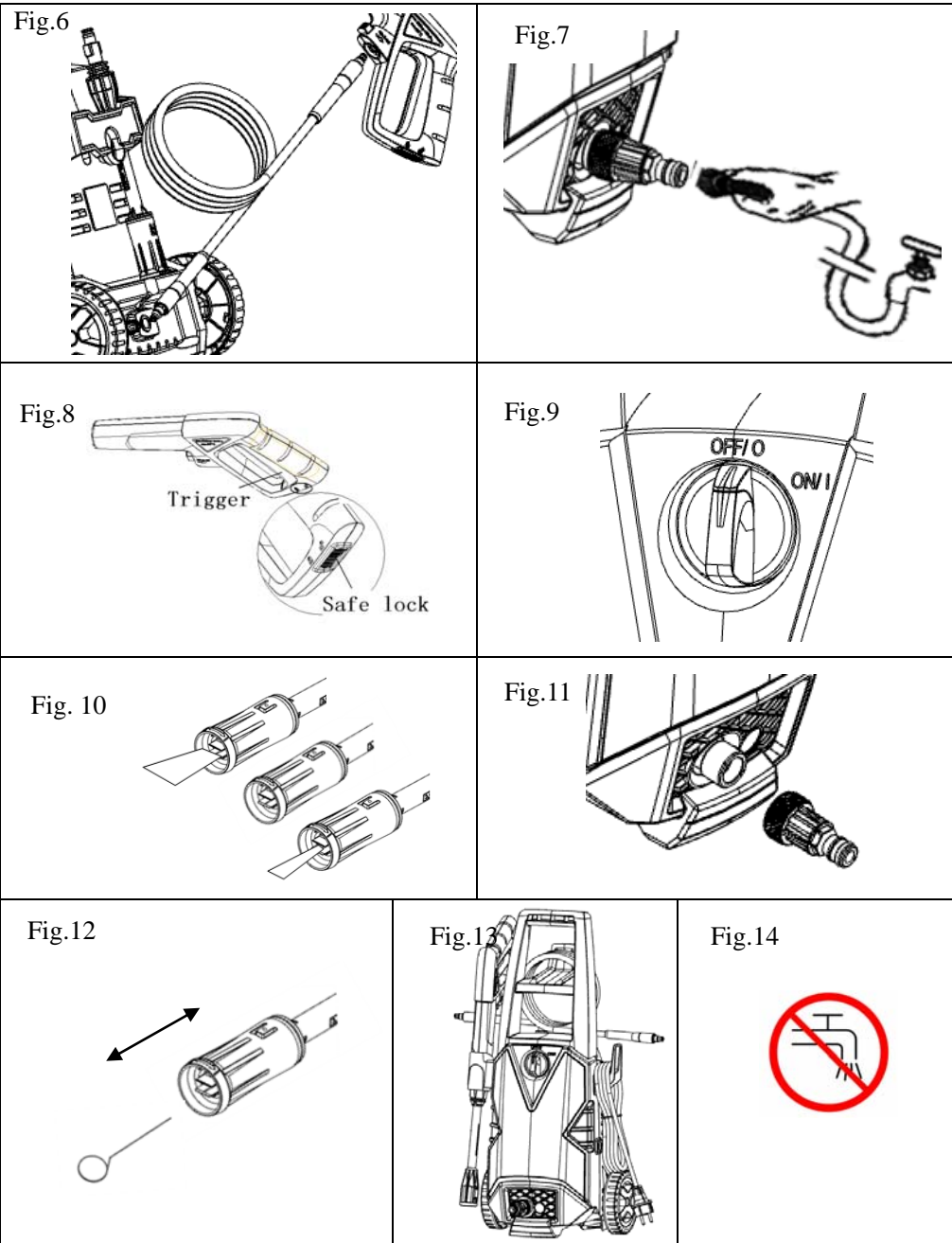


Fig.5

















1. Technical data

| | |
|-----------------------|--|
| Model. No | AO680/1400 |
| Rated voltage: | AC230V 50Hz |
| Rated input power: | 1500W |
| Protection class | II |
| Degree of protection: | IPX5 |
| Rated pressure: | 8MPa |
| Max. pressure: | 12MPa |
| Rated flow: | 6.0 l/min |
| Max. flow: | 7.2l/min |
| Rated temperature: | 0-40°C |
| Max. inlet pressure: | 0.7MPa |
| Sound pressure level: | L _{pA} =75.9 dB(A) K _{PA} =3dB |
| Sound power level: | L _{WA} =90.4dB (A) K _{WA} =3dB |
| Guaranteed : | L _{WA} =92dB (A) |
| Vibration value | a _h =3.2m/s ² K _{a h} =1.5m/s ² |
| Net Weight : | 5.7kgs |
| Gross Weight: | 6.3kgs |





2. SYMBOLS USED TO MARK INSTRUCTIONS

Some of the following symbols may be used on this product. Please study them and learn their meaning for safe operation.

| SYMBOL | NAME | EXPLANATION |
|---|---------------------------|--|
|  | Read instruction | Before starting up your high pressure washer for the first time, this instruction manual must be read through carefully. Save the instructions for later use. |
|  | Safety Alert | Safety instructions marked with this symbol must be observed to prevent danger to persons. |
|  | Safety mark | This symbol is used to mark safety instructions that must be observed to prevent damage to the machine and its performance. |
|  | Indication mark | This symbol indicates tips and instructions to simplify work and to ensure a safe operation. |
|  | Waste products disposal | Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice. |
|  | Eye Protection | Always wear safety goggles or safety glasses with side shields or a full face shield when operating this product. |
|  | Class II Construction | Double-insulated construction. |
|  | keep Bystanders Away | To reduce the risk of injury, user must keep all bystanders at least 15m away. |
|  | Electric Shock Precaution | Remove plug from the mains immediately if cable is damaged or cut. |
|  | Sound power level | Sound power level is 96dB(A) |
|  | Electrical shock hazard | Electrical shock hazard |

| | | |
|--|--|--|
|  | | Machine not suitable for connection to the potable water mains |
|--|--|--|

The following signal words and meanings are intended to explain the levels of risk associated with this product.

| SYMBOL | SIGNAL | MEANING |
|---|---------|---|
|  | Danger | Indicates an imminently hazardous situation which, if not avoided, will result in death. |
|  | Warning | Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury. |
|  | Caution | Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. |
|  | Caution | (Without Safety Alert Symbol) Indicates a situation that may result in property damage. |

3. IMPORTANT SAFETY INSTRUCTIONS



WARNING!

This appliance is not intended for use by children or other persons without assistance or supervision if their physical, sensory or mental capabilities prevent them from using it safely. Children should be supervised to ensure that they do not play with the appliance. Before starting up your machine please check it carefully for any defects. If you find any, do not start up your machine and contact your distributor.

Especially check:

The insulation of the power cord should be faultless and without any cracks. If the power cord is damaged, an authorized distributor should replace it.

WARNING!

Warning: Do not use this appliance without reading this instruction sheets.

- The electric supply connection shall be made by a qualified electrician and comply with IEC60364-1.
- The Electric supply to this appliance should include either a residual current device that will interrupt the supply if the leakage current to earth exceeds 30 mA for 30 ms or a device that will interrupt the earth circuit.

- **WARNING:** This appliance has been designed for use with the cleaning agent supplied or recommended by the manufacturer. The use of other cleaning agents or chemicals may adversely affect the safety of the appliance.
- **WARNING:** Do not use the appliance within range of persons unless they wear protective clothing.
- **WARNING:** High pressure jets can be dangerous if subject to misuse. The jet must not be directed at persons, live electrical equipment or the appliance itself.
- Do not direct the jet against yourself or others in order to clean clothes or foot-wear.
- Risk of explosion – Do not spray flammable liquids.
- Disconnect from the electrical power supply before carrying out user maintenance .
- High pressure cleaners shall not be used by children or untrained personnel.
- To ensure appliance safety, use only original spare parts from the manufacturer or approved by the manufacturer.
- **WARNING:** Water that has flown through backflow preventers is considered to be non-potable.
- **WARNING:** The machine shall be disconnected from its power source during cleaning or maintenance and when replacing parts for mains operated machines by removing the plug from the socket-outlet;
- **WARNING:** High pressure hoses, fittings and couplings are important for safety of the appliance. Use only hoses, fittings and couplings recommended by the manufacturer.
- 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:** If an extension cord is used, the plug and socket must be of watertight construction.
- **WARNING:** Inadequate extension cords can be dangerous.
- _ This high pressure washer must not be used at temperatures below 0°C.

WARNING!

- Cord on drums should always be completely unwinded to prevent the cord from overheating. - If an extension cord is used, the plug and socket must be of watertight construction.
 - Inadequate extension cords can be dangerous.
 - comply with the below-mentioned requirements for length and cord dimensions.
- | | |
|---------------------|-------------|
| 1.0 mm ² | max. 12.5 m |
| 1.5 mm ² | max. 20 m |
| 2.5 mm ² | max. 30 m |

Power cord connections should be kept dry and off the ground.

_ If the power cord is damaged, it must be replaced by the manufacturer or his service agent or similarly qualified person in order to avoid a hazard.

All keep the machine on a stable and flat surface during operation, handling, transportation and storage. Sudden overturn of machine will cause injury to body.

In the event of accident or breakdown, switch off the machine immediately. (e.g. contact with detergent: rinse with an abundance of clean water)

Attention!

Through poor conditions of the electrical MAINS, shortly voltage drops can appear when starting the EQUIPMENT. This can influence other equipment (eg. Blinking of a lamp). If the MAINS-IMPEDANCE $Z_{max} < 0.335 \text{ OHM}$, such disturbances are not expected. (In case of need, you may contact your local supply authority for further information.)

WARNING! ELECTRICAL SHOCK HAZARD



Improper connection of the equipment-grounding conductor can result in a risk of electrical shock. Check with a qualified electrician or service person if you are unsure if an outlet is properly grounded. DO NOT modify the plug provided with the appliance to fit an outlet, have a proper outlet installed by a qualified electrician.

Mains power connection



The following should be observed when connecting the high pressure washer to the electric installation:

- _ The electric installation shall be made by a certified electrician and comply with IEC-364.
- _ It is recommended that the electric supply to this appliance should include either a residual current device that will interrupt the supply if the leakage current to earth exceeds 30 mA for 30 ms.

IMPORTANT! Only use water without any impurities.

If there is a risk of running sands in the inlet water (i.e. from your own well), an additional filter should be mounted.

Safety devices

- _ The unloader valve can reduce pressure if it exceeds pre-set values. The spray gun features a locking device. When the pawl is activated, the spray gun cannot be operated.

Thermal sensor:

A thermal sensor protects the motor against overloading. The machine will restart after a few minutes when the thermal sensor has cooled.

- | | | |
|------------------|-----------------------|-------------------|
| 1. Power cord | 7. Gun lock | 13. Wheel |
| 2. Water outlet | 8. Trigger | 14. Warning label |
| 3. On/Off switch | 9. High pressure hose | 15. Rating label |
| 4. Mid lance | 10. Spray lance | |
| 5. Spray gun | 11. Water inlet | |
| 6. Handle | 12. Hose hook | |

5. PRODUCT DESCRIPTION

PURPOSE

- The high pressure cleaner is designed to clean vehicles, machines, buildings, facades, etc. in the private sector.

AREAS OF APPLICATION

- Never use the machine in potentially explosive areas under any circumstances!
- The operating temperature must be between 0 and +40°C.
- The machine consists of an assembly with a pump, which is encased in a shock absorbing housing. For an optimal working position the machine comes with a lance and a non-slip handle grip, whose shape and configuration comply with the applicable regulations.
- Do not cover or modify the lance or the spray nozzles in any way.
- The high pressure cleaner is designed to be used with cold or lukewarm (max. 60°C); higher temperatures can damage the pump.
- Do not use water that is dirty, gritty or contains any chemical products, as these could impair operation and shorten the life of the machine.
- Accessories can be used to carry out work with foam cleaners, sand spraying.

6. ASSEMBLY

- Position the washer as **NEAR** as possible to the water supply.
- The washer must be used standing on a secure, stable, positioned as shown. FIG.3.
- Fit the lance into the gun and rotating it until the two parts are completely locked FIG. 4.
- Connect the gun to the high pressure hose FIG.5.
- Connect the high pressure hose to the water outlet on the washer FIG.6.
- Connect the water supply hose to female coupler FIG.7, then connect to the water inlet of the washer. The supply hose must have an internal diameter of at least 13mm (1/2 in.) and must be reinforced. The water supply must be at least equal to the washer delivery capacity.

- **NOTE: The machine not suitable for connection to the potable water main (FIG. 14).**



WARNING

The intake water temperature must not exceed 40°C. The water supply must not exceed 0.7 MPa.



CAUTION

The washer must only be used with clean water; use of unfiltered water of corrosive chemicals will damage the washer.

- Push the motor switch to "OFF" position FIG. 9.

4. NAME OF PARTS: (FIG. 1、FIG.2)

- Check that the electrical supply voltage and frequency (Volt/Hz) correspond to those specified on the washer rating plate. If the power supply is correct, you may now plug in the washer.

7. OPERATION

- Turn on the water supply tap fully.
- **Release the safety lock FIG.8, then press the trigger for a few seconds to allow air to escape and to discharge residual pressure in the hose.**
- Keeping the trigger pressed, push the switch to start the motor FIG.9.
- **When re-starting the motor, always keep the trigger pressed.**

NOTE:

THE MOTOR ONLY RUNS WHEN THE TRIGGER IS OPERATED.

CORRECT USE OF STANDARD ACCESSORIES

- The washer is equipped with the adjustable nozzle.
- Jet adjustment from pencil to fan FIG. 10.

WARNING: DO NOT ADJUST THE NOZZLE WHILE THE TRIGGER IS SQUEEZED.

RECOMMENDED CLEANING PROCEDURE

- Dissolve dirt by applying detergent with the fan jet to the dry surface. On vertical surfaces, work from the bottom upwards. Leave the detergent to act for 1 to 2 minutes, but do not allow to dry out. Apply the high from the surface, working from the bottom upwards.
- Avoid allowing the rinsing water to run on to unwanted surfaces.

STORAGE (FIG.11 – FIG. 13)

- Switch off the washer.
- Turn off the water supply tap.
- After use, the detergent residuals should be removed from the tank.
- Discharge residual pressure by pressing the trigger until no more water comes out of the lance nozzle.
- Engage the gun safety lock.
- Remove the plug from the socket.
- Operate the washer with non-corrosive/ non-toxic antifreeze before storing for the winter.

WARNING: BEFORE REUSING, COMPLETELY FLUSH THE UNIT OUT WITH PLAIN WATER. ANTI-FREEZE CAN DAMAGE PAINTWORK SO YOU MUST ENSURE THERE IS NO ANTI-FREEZE LEFT IN THE SYSTEM BEFORE USING IT AGAIN.

8. MAINTENANCE



CAUTION

Before working on the washer, disconnect the plug from the power supply socket.

- To ensure good performance, check and clean the suction and detergent filters after every 50 hours of operation FIG. 11.
- Clean the nozzle with the tool provided. Remove the lance from the gun; remove any dirt from the nozzle hole (FIG. 12) and rinse.

9. TROUBLE-SHOOTING

Disconnect from the electrical power supply before carrying out user maintenance or checking its correct functioning.

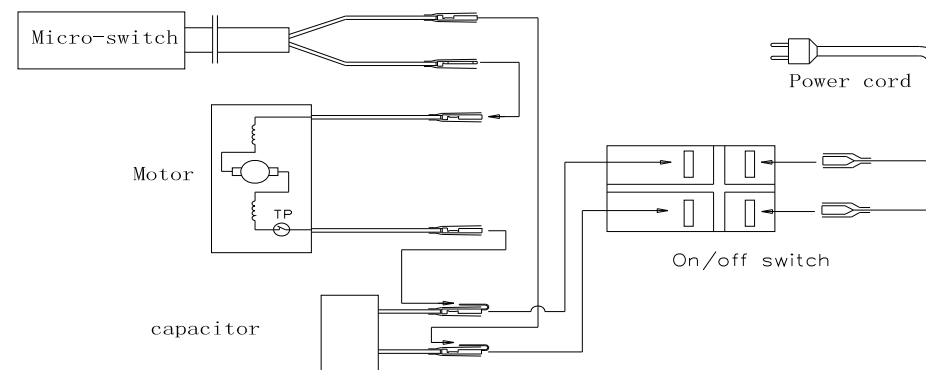
To avoid unnecessary disappointments, you should check the following before contacting the service organization:

| Symptom | Cause | Recommended action |
|---|--|---|
| Machine refuses to start | Machine not plugged in Defective socket Fuse has blown Defective extension cord | Plug in machine Try another socket. Replace fuse. Switch off other machines. Try without the extension cord. |
| Fluctuating pressure | Pump sucking air Valves dirty, worn out or stuck Pump seals worn out | Check that hoses and connections are airtight. Clean and replace or refer to local distributor Clean and replace or refer to local distributor |
| Machine stops | Fuse has blown Incorrect mains voltage Thermal sensor activated Nozzle partially blocked | Replace fuse. Switch off other machines. Check that the mains voltage corresponds to specification on the model tag. Leave the washer for 5 minutes to cool down. Clean the nozzle |
| Fuse blows | Fuse too small | Change to an installation higher than the amp. consumption of the machine. You may try without the extension cord. |
| Machine pulsating | Air in inlet hose Inadequate supply of mains water Nozzle partially blocked Water filter blocked Hose kinked | Allow machine to run with open trigger until regular working pressure resumes. Check that the water supply corresponds to specifications required NB! Avoid using long, thin hoses (min. 1/2") Clean the nozzle Clean the filter Straighten out hose. |
| Machine often starts and stops by itself | Pump/spray gun is leaking Centre. | Contact your nearest Service |
| Machine starts, | Pump/hoses or | Wait for pump/hoses or accessory |

| | | |
|-------------------------------|---|--|
| but no water comes out | accessory frozen No water supply Water filter blocked Nozzle blocked | to thaw. Connect inlet water. Clean the filter Clean the nozzle |
|-------------------------------|---|--|

In case problems other than the above occur, please contact your local distributor.

10. Circuit Diagram



11. DISPOSAL

Recycling the washer



Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.

Contact your local government for information regarding the collection systems available. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

When replacing old appliances with new ones, the retailer is legally obligated to take back your old appliance for disposals at least free of charge.

12. Warranty Information

Rockworth products have a limited warranty against defects in material and workmanship from the date of purchase. Rockworth products are designed for Domestic/Light Industrial use and the warranty does not apply to defects resulting from accidental damage, improper use, or exceeding the design limits of the product.

Please take time to read the instruction manual provided. For more information on the range, please visit www.rockworthproducts.co.za

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