

CLARKE®



WARNING: Read these instructions before using the machine

PROFESSIONAL HIGH PRESSURE HOT WASHER
MODEL NO: KING 200
PART NO: 7320176

OPERATION & MAINTENANCE INSTRUCTIONS



ORIGINAL INSTRUCTIONS

LS0819 - ISS 1

INTRODUCTION

Thank you for purchasing this CLARKE Hot Washer.

The machine has been designed to use hot or cold water to clean any surfaces which can stand the force of the high pressure water jet and the action of the detergents used.

The machine must only be used for the purpose for which it was designed.

Before attempting to use this product, please read this manual thoroughly and follow the instructions carefully. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to your purchase giving you long and satisfactory service.

GUARANTEE

This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not effect your statutory rights.

UNPACKING

1. Remove the cardboard box, put two wheels of the machine on the ground and remove the pallet.

The following items should be supplied. If any parts are missing or damaged, please see your CLARKE dealer.

1 x Pressure Washer	1 x Water Inlet Hose Adaptor
1 x Gun Assembly	1 x Hose Assembly
1 x Lance Assembly	1 x High Pressure Nozzle

GENERAL SAFETY RULES



WARNING: WATER AT HIGH PRESSURE CAN BE DANGEROUS AND CAN CAUSE DAMAGE IF THE OPERATOR IS CARELESS. NEVER ALLOW ANYONE TO OPERATE THIS PRESSURE WASHER UNLESS THEY ARE FAMILIAR WITH THE SAFETY PRECAUTIONS.

1. **NEVER** direct the spray towards any person or animal.
2. **NEVER** direct the spray towards electrical wiring or equipment.
3. **NEVER** hold your finger over the high pressure nozzle.
4. **NEVER** allow children or untrained personnel to use this machine.
5. **NEVER** operate the machine with any of the covers removed.
6. **NEVER** attempt any repairs to this machine. Always refer to your CLARKE dealer.
7. **NEVER** supply any liquid other than water to the water inlet.
8. **NEVER** use the detergent bottle to introduce flammable liquids/solvents, e.g. paint thinners, petrol, oil as there is a risk of explosion.
9. **NEVER** direct the jet at electrical equipment or the machine itself.
10. **NEVER** use the pressure washer if the power cable or important parts of the machine are damaged.
11. **ALWAYS** release any residual pressure in the system by turning off the water supply and operating the trigger before disconnecting any hose or accessory.
12. **ALWAYS** keep the machine itself dry and well clear of water spray.
13. **ALWAYS** wear protective clothing and safety glasses. Loose particles and other debris may be propelled at high speed by the water jet.
14. **ALWAYS** grip the gun firmly and expect the spray gun to 'kick' when starting.
15. **ALWAYS** respect the requirements of the local water company. Pressure washers may only be connected to the mains drinking water supply, if a system separator (known as a backflow preventer) is installed in the supply hose.
16. **ALWAYS** disconnect from the water supply and ensure the system is completely drained when not in use. Store in a cool dry location.
17. **ONLY** use chemical cleaning agents (detergents), that are approved for pressure washers. CLARKE Traffic Film Remover or CLARKE Wash and Wax (available from your dealer), is recommended.
18. **WARNING:** High pressure water jets can be dangerous if subject to misuse. The jet must not be directed at a person or anything that they are wearing.
19. **WARNING:** High pressure hoses, fittings and couplings are important for the safety of the machine. Only use hoses, fittings and couplings recommended by the manufacturer.
20. **WARNING:** Water that has flowed through a system separator (known as a backflow preventer) is considered non-drinkable.

ELECTRICAL CONNECTIONS



WARNING: READ THESE ELECTRICAL SAFETY INSTRUCTIONS THOROUGHLY BEFORE CONNECTING THE PRODUCT TO THE MAINS SUPPLY.

Before switching the product on, make sure that the voltage of your electricity supply is the same as that indicated on the rating plate. This product is designed to operate on 230VAC 50Hz. Connecting it to any other power source may cause damage.

If the fuse cover becomes lost or damaged, the plug must not be used until a suitable replacement is obtained.

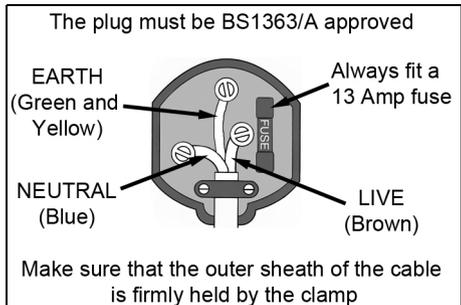
If the plug has to be changed, it should be cut off and a replacement fitted, following the wiring instructions shown below. The old plug must be disposed of safely, as insertion into a mains socket could cause an electrical hazard.



**WARNING: THE WIRES IN THE POWER CABLE OF THIS PRODUCT ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:
BLUE = NEUTRAL BROWN = LIVE YELLOW AND GREEN = EARTH**

If the colours of the wires in the power cable of this product do not correspond with the markings on the terminals of your plug, proceed as follows.

- The blue wire must be connected to the terminal marked **N**.
- The brown wire must be connected to the terminal marked **L**.
- The yellow and green wire must be connected to the terminal marked **E** or .



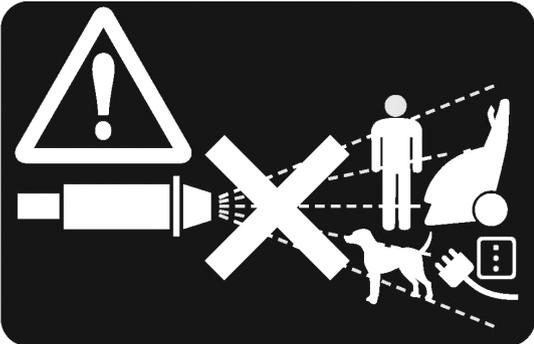
We strongly recommend that this machine is connected to the mains supply via a Residual Current Device (RCD).

EXTENSION CABLES

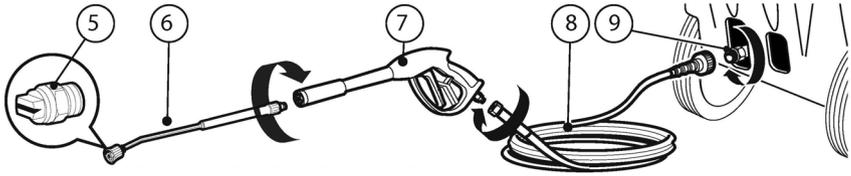
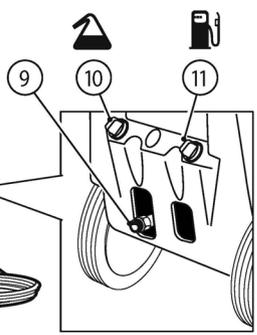
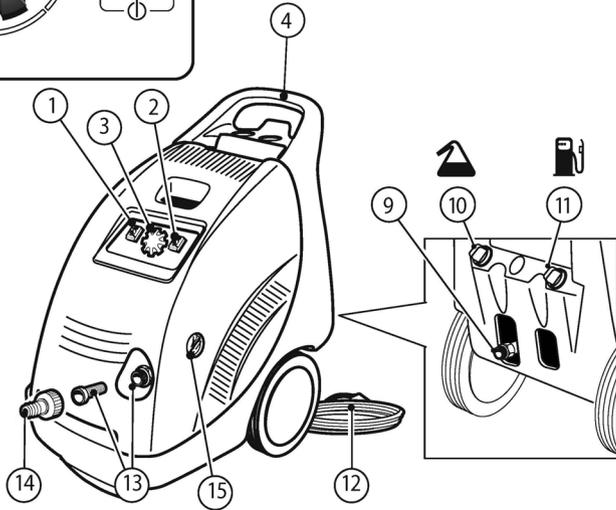
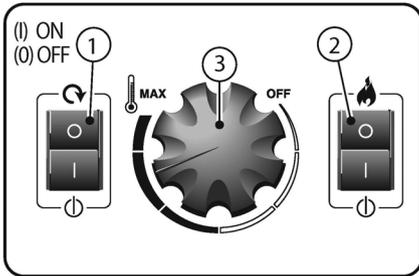
If an extension cable is used, always ensure it is fully unwound. When used outdoors, ensure that the extension cable is specifically designed for outdoor use. Ensure that the cable is rated for the voltage and amperage of the machine.

If in any doubt, consult a qualified electrician. DO NOT attempt any repairs yourself.

SYMBOLS ON THE MACHINE

	<p>The high pressure jet must not be directed at persons, animals, live electrical equipment or at the appliance itself.</p>		
	<p>Read the manual before use.</p>		<p>Failing to follow these instructions could result in injury or damage to the machine.</p>
	<p>Conforms to CE Regulations.</p>		<p>Wear safety glasses when using this machine.</p>
	<p>Wear ear protection</p>		<p>Respiratory Hazard. Always Wear Protection.</p>
	<p>Hot Surface Do Not Touch</p>		

OVERVIEW



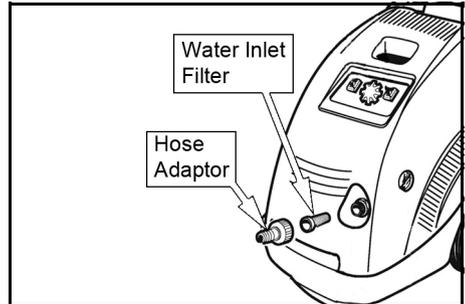
1	On/off Switch
2	Burner On/Off Switch
3	Burner Thermostat
4	Handle
5	Nozzle
6	Extension Lance
7	Gun
8	High Pressure Hose

9	High Pressure Water Outlet
10	Detergent Tank
11	Diesel Tank
12	Power Cable
13	Water Inlet & Filter
14	Water Inlet Adaptor
15	Pressure Gauge

INSTALLATION

CONNECT THE HOSE ADAPTOR

1. Insert the Water inlet filter into the water inlet.
2. Screw the supplied hose adaptor onto the water inlet by hand as shown.
 - Do not use any tools to tighten the adaptor.



CONNECT TO A WATER SUPPLY

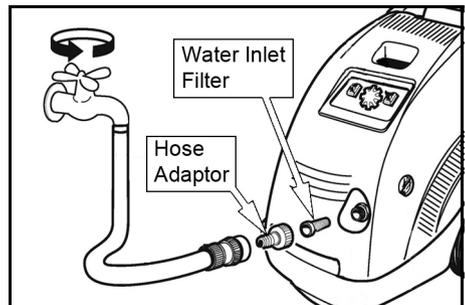
The pressure washer must never be connected to the drinking water supply without using a system separator (also known as a backflow preventer).

Always follow the regulations of your local water supplier.



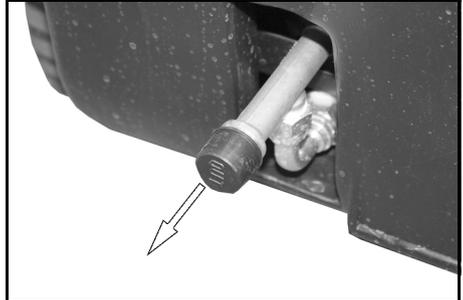
CAUTION: WATER THAT HAS FLOWED THROUGH A SYSTEM SEPARATOR IS CONSIDERED NON-DRINKABLE.

1. Connect a supply hose to the inlet adaptor.
 - We recommend that you use a push fit quick connector (not supplied).
 - The water supply must be able to deliver at least 10 l/min with an inlet temperature between 5°C and 40°C.

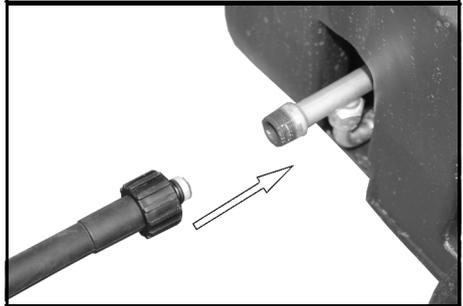


CONNECT THE HIGH PRESSURE HOSE

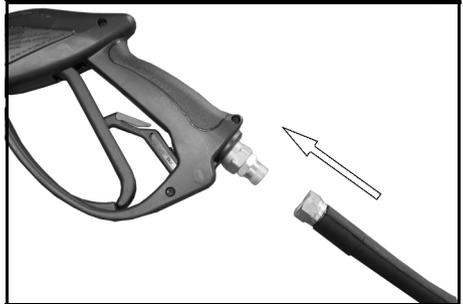
1. Remove the travel cap from the high pressure hose outlet.



2. Screw the other end of the hose on to the outlet.
 - Tighten the connector by hand only - do not use any tools.
 - Make sure the connection is secure.

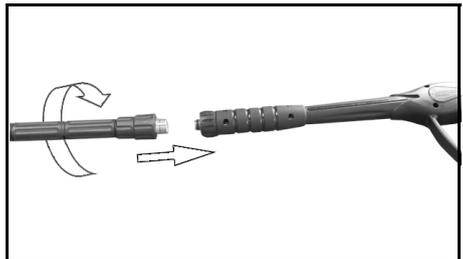


3. Connect the high pressure hose to the gun assembly.
 - Make sure the connection is secure.



ATTACH THE EXTENSION LANCE

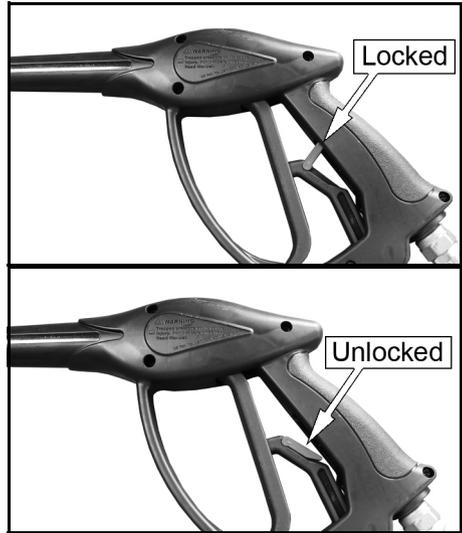
1. Connect the extension lance to the gun assembly.



GUN ASSEMBLY SAFETY LOCK

The safety button on the gun is not there to lock the lever during operation, but to prevent its accidental operation.

1. Lift the locking lever to the position shown to prevent the trigger from being pulled.
2. Fold the locking lever flat to release the trigger lock.



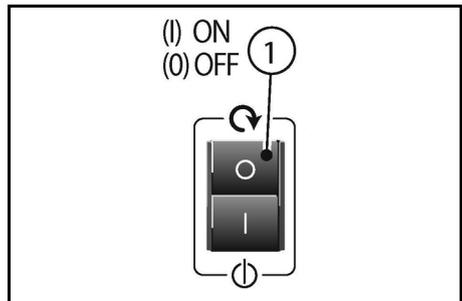
AUTOMATIC STOP SYSTEM

The Automatic Stop System stops the machine during the bypass mode.

The Automatic Stop System will stop the machine and will restart it automatically when the trigger is pulled.

- It is advisable to activate the safety lock on the gun assembly whenever the machine is not being used in order to avoid unintentional starting.
- If the machine starts automatically without pressing the gun trigger this will be attributable to air bubbles in the water or other similar phenomena and does not imply the existence of any defects in the machine.
- Do not leave the machine unattended.

If you do not intend to use the machine for more than 5 minutes, set the ON/OFF switch to OFF.

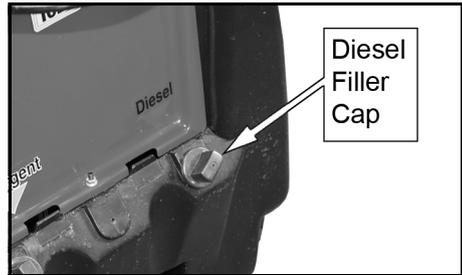


ADDING FUEL



WARNING: INCORRECT FUELS MUST NOT BE USED AS THEY MAY PROVE HAZARDOUS.

- ALWAYS refuel in a well-ventilated area, away from sources of ignition.
 - NEVER leave fuel within the reach of children.
 - Refuel carefully to avoid spillages.
1. Remove the diesel filler cap.
 2. Fill the tank with diesel fuel only.
 - Minimum 4 litres
 - Maximum 14 litres.
 3. Replace the filler cap securely.



OPERATION



WARNING: IN CASE OF OPERATION INDOORS, ADEQUATE VENTILATION AND GAS VENTING MUST BE ASSURED.

HOLDING THE LANCE

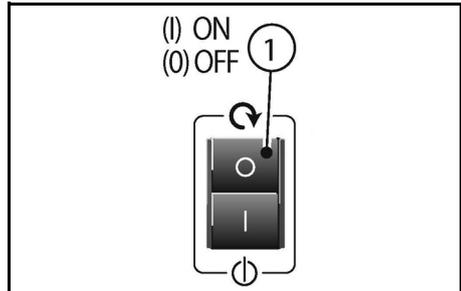
1. Users must hold the gun in the correct position, with one hand on the grip and the other on the lance as shown.

NOTE: Never touch any metal parts of the lance as they will get hot during use.



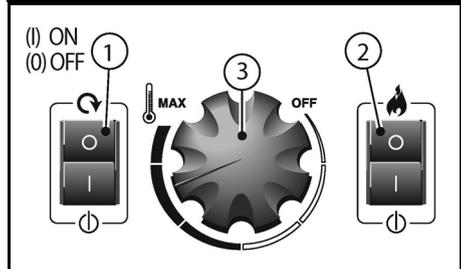
WASHING WITH COLD WATER

1. Set the ON/OFF switch to ON.
2. Squeeze the gun trigger.



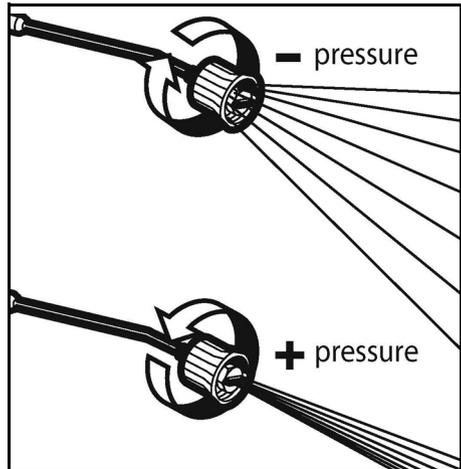
WASHING WITH HOT WATER

1. Set the ON/OFF switch to ON.
2. Set the Burner ON/OFF switch to ON.
3. Turn the burner thermostat to the desired temperature setting.
4. Squeeze the gun trigger.



TO CHANGE THE SPRAY PATTERN (PENCIL JET / FAN SPRAY)

1. To vary the spray between Pencil Jet and fan spray, turn the nozzle counter-clockwise through a half-a-turn (180°).



ADJUSTING THE PRESSURE

Ways to adjust the pressure include varying the distance you are from the surface being cleaned or adjusting the spray to a wider angle (lowering the pressure).

SHUTTING DOWN

1. Set all switches to OFF and remove the mains plug from the power supply.
2. Squeeze the trigger on the gun assembly to remove any pressure in the hose.
3. Turn off and disconnect the water supply hose and allow it to drain fully.
4. Disconnect the high pressure hose and allow it to drain fully.

USING DETERGENTS



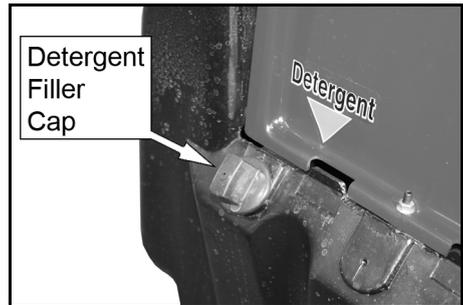
WARNING: THE USE OF UNSUITABLE CLEANING AGENTS MAY ADVERSELY AFFECT THE SAFETY OF THE MACHINE. DO NOT EXCEED THE CORRECT OPERATING TEMPERATURE FOR THE DETERGENT IN USE.

Only use detergents recommended for use with pressure washers such as:

- CLARKE Traffic Film Remover which is a powerful 'low foaming' agent for car cleaning, patio cleaning etc.
 - CLARKE Wash & Wax.
1. Remove the detergent filler cap.
 2. Fill the tank with detergent.
 - Maximum 2.5 litres.
 3. Replace the filler cap securely.

CONSUMABLES ETC

A range of suitable hoses, shampoo and traffic film remover are available from your CLARKE dealer.



CARE AND MAINTENANCE



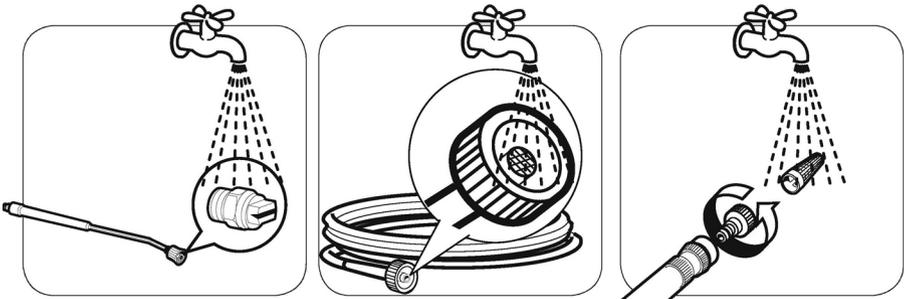
WARNING: DISCONNECT THE MACHINE FROM THE POWER SOURCE DURING CLEANING OR MAINTENANCE.

WARNING: DO NOT SPRAY THE MACHINE WITH WATER AND DO NOT USE DETERGENTS OR AGGRESSIVE SOLVENTS AS THEY COULD DAMAGE THE MACHINE.

1. Clean the exterior part of the machine with a dry cloth.

CLEANING THE WATER INLET FILTER:

To ensure the pump gives good service it is extremely important to check and clean the water inlet filter frequently.

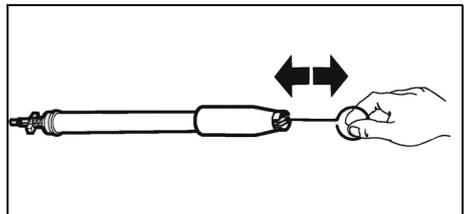


1. Rinse the nozzle, hose connection and water filter carefully under running water.

CLEANING THE NOZZLE:

A blockage in the nozzle may prevent the machine from operating correctly, so it must be kept clean.

1. Switch off the machine.
2. Remove the lance.
3. Clean the nozzle with the pin provided.
4. Rinse the lance in running water.



ENVIRONMENTAL PROTECTION



Through purchase of this machine, the customer is taking on the obligation to deal with the WEEE in accordance with the WEEE regulations in relation to the treatment, recycling & recovery and environmentally sound disposal of the WEEE.

In effect, this means that this machine must not be discarded with general waste. Refer to the laws governing Waste Electrical and Electronic Equipment (WEEE) at a recognised disposal facility.

TROUBLESHOOTING

FAULT	CAUSE	SOLUTION
When the main switch is turned on the machine does not start	Plug not properly connected.	Carefully check the plug and the electric cable.
	Plug fuses are burnt out.	Check them and replace them.
The motor hums but does not start	Low voltage.	Contact CLARKE service.
	High pressure pump is blocked.	Contact CLARKE service.
The motor stops suddenly or after a while	The motor-protecting switch is on because of insufficient mains voltage.	Check the value of the mains voltage.
		Contact CLARKE service.
When the lance is turned on pressure values decrease and increase	The nozzle is either clogged or deformed.	Either clean it or replace it.
	Either boiler coil or lance are clogged with limestone.	Contact CLARKE service.
Too much vibration at the delivery	The pressure tank is run down.	Contact CLARKE service.
	The valves are worn out or dirty.	Contact CLARKE service.
The pump does not reach the fixed pressures	The pump sucks air.	Check the suction pipes.
	All other causes	Contact CLARKE service.
Irregular pressure fluctuations	The suction and/or delivery valves are worn out.	Contact CLARKE service.
	Presence of foreign matters in the valves,	Contact CLARKE service.
	The seals are worn out.	Contact CLARKE service.
Pressure leakage	The nozzle is worn out.	Replace the nozzle.
	All other causes	Contact CLARKE service.
Noisiness	Inlet water temperature too high.	Reduce the water temperature.
	All other causes	Contact CLARKE service.

Insufficient detergent suction	No detergent in the tank.	Fill the detergent tank.
	All other causes	Contact CLARKE service.
Water is in the fuel	The O-ring casing is worn out.	Contact CLARKE service.
	The seals are completely worn out.	Contact CLARKE service.
Turning on the burner switch the boiler does not start	No fuel.	Check the level in the tank
	All other causes	Contact CLARKE service.
Water is not hot enough	Poor boiler performance.	Contact CLARKE service.
	Boiler coil clogged with limestone.	Contact CLARKE service.
Too much smoke from the exhaust	Combustion is not correct.	Clean fuel filter.
		Contact CLARKE service.
	Impurities or water in the fuel.	Empty the tank and clean it carefully.

For all other problems contact the CLARKE service department

PRODUCT SPECIFICATIONS

Model Number	King 200
Part Number	7320176
Voltage	230 V / 50 Hz / 1 Phase
Motor Input Power	2800W
Motor Input Current	13 A
Duty Cycle	S1 (continuous)
Max Inlet Water Pressure	10 Bar
Working pressure	130 Bar
Maximum output pressure	150 Bar
Maximum output flow rate	10 Litres / min
Maximum output temperature	90°C
Maximum input temperature	40°C
Fuel tank capacity	14 Litre
Detergent capacity	2.5 Litre
Sound power level (L_{WA})	101 dB
Guaranteed sound power level (L_{WA})	102 dB
Vibration	2.2 m/s ²
Dimensions (D x W x H)	800 x 550 x 830 mm
Weight	59 kg

DECLARATION OF CONFORMITY



Clarke[®]
INTERNATIONAL

Hemndall Street, Epping, Essex CM16 4LG

DECLARATION OF CONFORMITY

This is an important document and should be retained.

Product Description: Hot / Cold Pressure Washer
Model number(s): King 200
Serial / batch Number: 7320176
Date of Issue: 05/07/2019
(Noise Conformity)
Notified Body: n/a

Technical Documentation Holder: A.R. Pond
Clarke International
2a Shrubland Road
London E10 7RB
UK

Conformity Assessment Procedure: to 2000/14/EC Annex V
Manufacturer: Clarke International
Noise Related Value: 600 L/h
Measured Sound Power Level: 101 dB
Guaranteed Sound Power Level: 102 dB

DECLARATION OF CONFORMITY



Clarke[®]
INTERNATIONAL

Hemnal Street, Epping, Essex CM16 4LG

DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following directive(s):

- 2014/30/EU *Electromagnetic Compatibility Directive..*
- 2006/42/EC *Machinery Directive.*
- 2011/65/EU *Restriction of Hazardous substances.*
- 2000/14/EC *Noise Emissions Directive, (amended by 2005/88/EC).*

The following standards have been applied to the product(s):

EN 60335-1:2012+A11, EN 60335-2-79:2016, EN 62233:2008, EN 55014-1:2017, EN 55014-2:2015, EN 61000-3-2:2014, EN 61000-3-3:2013.

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned directive(s) has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2019

Signed:

J.A. Clarke
Director

A SELECTION FROM THE VAST RANGE OF

Clarke®

QUALITY PRODUCTS

AIR COMPRESSORS

From DIY to industrial, Plus air tools, spray guns and accessories.

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Prime duty or emergency standby for business, home and leisure.

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Mig, Arc, Tig and Spot. From DIY to auto/industrial.

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Drills, grinders and saws for DIY and professional use.

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Saws, sanders, lathes, mortisers and dust extraction.

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Cranes, body repair kits, transmission jacks for all types of workshop use.

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Submersible, electric and engine driven for DIY, agriculture and industry.

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Angle grinders, cordless drill sets, saws and sanders.

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