

# Clarke® POWER WASHER



## JETSTAR 1800 POWERWASHER

Part No. 7333060

0108

### OPERATING & MAINTENANCE INSTRUCTIONS



©

## SPECIFICATIONS

<b>Motor</b>	<b>230V 50Hz 1Ph</b>
<b>Power Rating</b>	<b>1,6kW</b>
<b>Max. Pressure</b>	<b>100Bar (1470psi)</b>
<b>Max. Water Flow</b>	<b>7 Litre/min</b>
<b>High Press. Hose Length</b>	<b>5M</b>
<b>Max. Inlet Water Temp.</b>	<b>40°C</b>
<b>Detergent Bottle Capacity</b>	<b>0.4L</b>
<b>Gross Weight</b>	<b>10.5kg</b>
<b>Dimensions</b>	<b>670x280x245mm</b>
<b>Noise Level (at 1M)</b>	<b>94dBL<sub>WA</sub></b>
<b>Part Number</b>	<b>7333060</b>

Please note that the details and specifications contained herein, are correct at the time of going to print. However, CLARKE International reserve the right to change specifications at any time without prior notice. ALWAYS CONSULT THE MACHINE'S DATA PLATE

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Thank you for purchasing this CLARKE Jetstar 1800 Powerwasher.

This machine is a lightweight, portable, high pressure power washer, designed for DIY use only.

It comprises an electric motor, pump, high pressure hose with trigger and lance, and a foam lance for injecting cleaning agents into the water jet, ideal for cleaning greasy engines and equipment, removing oil spots from patios etc.

Before attempting to use your Jetstar 1800, please read this instruction manual thoroughly and follow all instructions carefully. By doing so you will ensure the safety of yourself and that of others around you, and you can look forward to it giving you long and satisfactory service.

## GUARANTEE

This CLARKE product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt 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.

## SAFETY PRECAUTIONS

### WARNING!

Water at high pressure can be dangerous and may cause severe damage to persons or property if subject to misuse.

NEVER allow anyone to operate this equipment unless they are thoroughly reliable, and completely familiar with the safety precautions.

1. Never direct the spray jet at any person or animal.
2. Never hold a finger over the high pressure nozzle.
3. Never direct the spray jet at the machine itself or any other electrical equipment.
4. After use, and before disconnecting hoses, release the pressure in the high pressure hose by operating the trigger. Do not attempt to disconnect any hose or coupling with pressure still in the hose.
5. Never operate the machine with any of the covers removed.
6. Do not attempt any electrical or mechanical repair. If you have a problem with your machine contact your local dealer or Clarke Customer Services Dept., tel: 020 8988 7400
7. Never supply any liquid other than **CLEAN** water to the water inlet.
8. Use only chemical cleaning agents (detergents) approved for power washing when using the foam lance.
9. Never use the foam lance to introduce solvents eg. paint thinners, petrol, oil, etc.
10. Do not operate the machine whilst standing on ladders: use a platform tower or scaffolding.
11. Children should not be allowed to use the machine.
12. We recommend the use of safety goggles when using machine with sand blasting attachment (optional accessory - see Page 13), or any application where loose particles of stone or grit etc. may be blown around by the high pressure spray.



13. When not in use, disconnect from the water and electrical supply's, and ensure the system is completely drained. Store in a dry, frost free environment.
14. Disconnect from the mains supply before carrying out any maintenance or servicing.
15. Never carry the washer by the power cable, or yank it to disconnect from the socket.
16. Keep the cable away from heat, oil or sharp edges.
17. Keep all connections dry. Do not touch the plug with wet hands.
18. Do not allow the high pressure hose to become crushed, stretched, kinked or twisted.
19. Do not pull the washer by the high pressure hose.
20. ALWAYS operate the machine in an upright position and as far away from the spray site as possible.
21. ALWAYS connect the machine to the power supply through a Residual Current Device (RCD), readily available from electrical stores, DIY stores etc.

## PARTS & SERVICE CONTACTS

For Spare Parts and Service, please contact your nearest dealer, or CLARKE International, on one of the following numbers.

**PARTS & SERVICE TEL: 020 8988 7400**

**PARTS & SERVICE FAX: 020 8558 3622**

**or e-mail as follows:**

**PARTS: [Parts@clarkeinternational.com](mailto:Parts@clarkeinternational.com)**

**SERVICE: [Service@clarkeinternational.com](mailto:Service@clarkeinternational.com)**

## ELECTRICAL CONNECTIONS



**WARNING: THIS MACHINE IS DOUBLE INSULATED**



This product is provided with a standard 13 amp, 230 volt (50Hz). BS 1363 plug, for connection to a standard, domestic electrical supply. Should the plug need changing at any time, ensure that a plug of identical specification is used.

**IMPORTANT: The wires in the mains lead should be wired up in accordance with the following colour code:**

Blue	-	Neutral
Brown	-	Live

As the colours of the wires in the mains lead may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

- Connect BROWN cord to plug terminal marked letter "L"
- Connect BLUE cord to plug terminal marked letter "N"

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

### FUSE RATING

The fuse in the plug for this appliance must be rated at **13 amps**

#### **IMPORTANT:**

**If this appliance is fitted with a plug which is moulded onto the electric cable (i.e non-rewirable):**

1. **The plug must be thrown away if it is cut from the electric cable. There is a danger of electric shock if it is subsequently inserted into a socket outlet.**
2. **Never use the plug without the fuse cover fitted.**
3. **Should you wish to replace a detachable fuse carrier, ensure that the correct replacement is used (as indicated by marking or colour code).**
4. **Replacement fuse covers can be obtained from your local dealer or most electrical stockists.**

### EXTENSION CABLES

If an extension cable is used always ensure that it is fully unwound. The maximum extension length is 25M, and the wire size in the cables must be at least 1.5mm in diameter. As a general rule the extension cable must be thicker than the cable supplied with the Washer. If longer extensions are required please seek advice from a qualified electrician.

**IF IN DOUBT CONSULT A QUALIFIED ELECTRICIAN.  
DO NOT ATTEMPT ANY ELECTRICAL REPAIRS YOURSELF.**

## PRE- ASSEMBLY CHECKS

Before assembling your new Jetstar 1800 Powerwasher, check to ensure that all parts listed below are included.

- Item 1 Powerwasher with cable and plug
- Item 2 Trigger/Handle assembly with high pressure hose
- Item 3 Lance Extension
- Item 4 Nozzle assembly
- Item 5 Detergent/foam lance with container
- Item 6 Wheels
- Item 7 Inlet Adapter
- Item 8 Handle

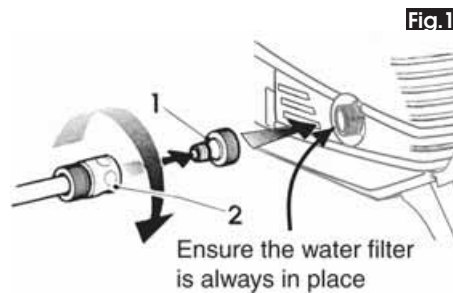


Please check to ensure that no damage was suffered in transit. Should any damage be apparent, you should notify your Clarke dealer immediately.

## ASSEMBLY AND PREPARATION FOR USE.

### A. Water Supply Hose

The inlet hose adapter (1), should be attached to the water inlet ensuring the filter, within the port and sealing ring within the adapter are in both in place. Attach a suitable hose to the inlet hose adapter, using a worm drive clip, or more commonly used, a Quick Fit Coupling as shown at 2, Fig 1.



#### NOTE:

1. Use a good quality hose of at least 1/2" (13 mm) diameter.
2. Hose, worm drive clips, Quick Fit Couplings are not supplied but are available from DIY, Hardware and Garden Supplies Stores.

Secure the other end of the hose to your tap using a suitable tap adaptor (not supplied). CLEAN, cold or hot water (up to 40°C) can be used.



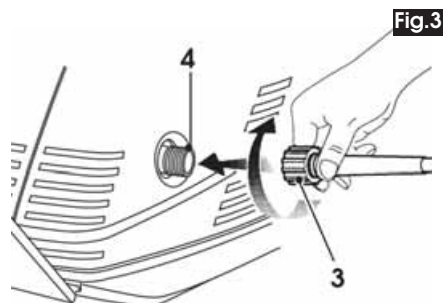
#### NOTE:

*In some areas, it may be necessary to ensure that you comply with local bylaws concerning the use of water from the mains supply, and the disposal of possibly contaminated water.*

### B. High Pressure Hose

Remove the plastic travel cap (if fitted) from the threaded high pressure outlet (4, Fig.3), then insert and push home the high pressure hose into the connector.

Tighten the ring nut (3, Fig. 3), by hand taking care not to overtighten.



## B. Lance

At the opposite end to the nozzle is a spigot with two integral lugs, and a rubber O-ring. Ensure the O-ring is in place and in good condition.

Insert the spigot end of the nozzle into the handle/lance assembly. Push home firmly to lock it in position. Twist anticlockwise looking down from the handle end. DO NOT attempt to disassemble the lance/handle assembly.

**NOTE: When new, the lance may be a tight fit and a little lubrication, with vaseline or similar, will assist when joining the parts together.**

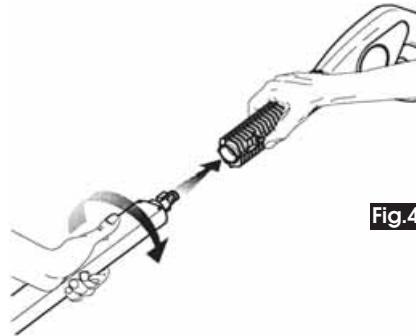


Fig.4

## C. Nozzle

The nozzle simply screws into the end of the lance.



## OPERATION

Make certain the ON/OFF switch is set in the OFF position by pressing 'O', see Fig. 5. Connect the plug to the mains supply, preferably via a Residual Current Device.

Turn the water tap fully on.

When starting, it is **IMPORTANT** that you adopt the following procedure:

In order to ease the starting process, and to prevent the possibility of blown fuses, pull the trigger on the lance - it may be necessary to release the safety latch in order to do so (1, Fig.6), and hold the trigger in that position whilst switching the motor ON and allowing the pump to develop full pressure.

You may release the trigger once full pressure is developed. When you do so, a by-pass will operate, shutting off the water at the nozzle, but the motor will continue to run.

DO NOT allow the motor to run for more than 30-40 seconds under these conditions as doing so for prolonged periods could damage the motor



Fig.5

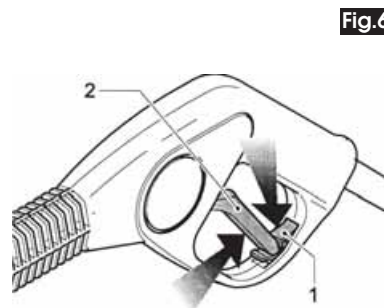


Fig.6

As soon as you pull the trigger again, water at pressure will be ejected. This process will continue for as long as the machine is switched ON.

**WARNING!**

Ensure the operator is aware that when the trigger is pulled, water at high pressure can cause the lance to kick fiercely - it should therefore be held firmly. In addition, care must be taken to ensure that the nozzle is NOT aimed at an area where the water jet will cause damage, i.e. away from people, animals, windows - greenhouses etc., and be aware that splash back could also cause damage if the jet is trained on a nearby wall etc.



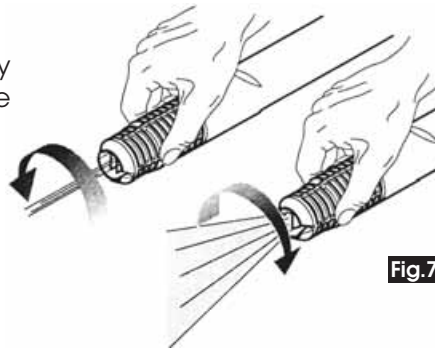
To turn the machine OFF, press the OFF button (see Fig. 5), THEN.....

**ALWAYS press the trigger, to ensure there is no pressure in the hose.**

Get into the habit of pressing the trigger again BEFORE disconnecting the hose from the machine.

A high pressure pencil jet or fan spray may be selected by twisting the nozzle as shown in Fig.7.

**NEVER attempt to run the machine with the water supply disconnected, or turned off**



## THERMAL OVERLOAD

The machine is protected against damage which could result should the machine overheat. If the thermal overload cuts in, allow at least 5 minutes, to allow the machine to cool, before attempting to restart.

## CHEMICAL CLEANING AGENTS

To improve cleaning qualities, it is possible to introduce chemical cleaning agents (detergents) using the foam lance. This is particularly useful for washing cars, greasy engine parts, removing oil spots on concrete etc. Use ONLY those detergents recommended for use with power washers, such as CLARKE Traffic Film Remover which is a powerful low foaming agent for car cleaning, patio cleaning etc., or CLARKE Wash & Wax, both available from your CLARKE dealer.

To prepare for detergent application, ensure the trigger safety latch is set to prevent the trigger from being pulled accidentally and the machine is switched OFF. It is not necessary to pull the trigger to release the pressure.

Remove the lance from the trigger/handle assembly by twisting it clockwise looking down from the handle end, and pulling it free. Insert the detergent lance, push in firmly and twist anticlockwise to lock in position.

**NOTE: It may be necessary to lubricate the lance spigot when new to assist when attaching to the handle.**

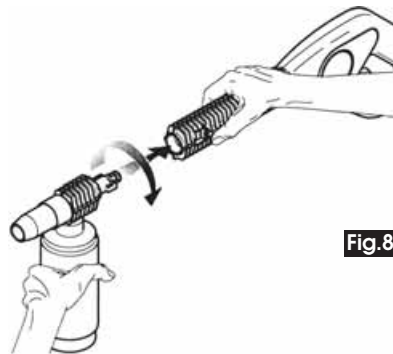


Fig.8

With the container filled with detergent, screw it on to the detergent lance ensuring the plastic pick-up tube is in place.

### IMPORTANT:

**ALWAYS read and comply with the manufacturers instructions issued with the chemical detergent.**

Switch ON and pull the trigger. Spray the detergent on to the vehicle, patio etc., and allow it to work itself into the grime.

To rinse and clean, set the safety latch, replace the detergent lance with the main lance, release the safety latch and blast off the dirt.

After using the detergent lance, rinse it thoroughly, together with the container, with clean water. (See Maintenance)

## CARE AND MAINTENANCE

### WARNING:

*Ensure the plug is removed from the socket before carrying out any adjustment, servicing or maintenance.*

### After each use

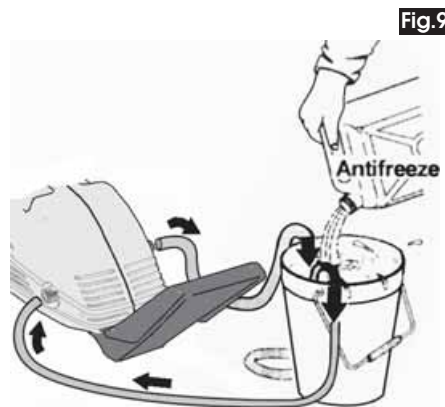
If cleaning agents have been used, thoroughly clean the detergent lance and bottle with clean water.

### Storage

If there is a danger of freezing, insert the inlet and outlet hoses into a bucket of antifreeze as shown in Fig.9. Start the machine and allow the antifreeze to circulate. After a short time, stop the machine and store with the antifreeze still within the pump body.

### NOTE:

*If you experience difficulty in starting the motor following a long period of storage, it is possible that the seals within the pump have dried out and are gripping the pistons. This problem may be alleviated by storing the machine with antifreeze within the pump body, as described above. If the seals are stuck however, contact your Clarke dealer for advice.*



### Water input filter

Located behind the water inlet, this filter should be removed for cleaning after every 10 hours of use (or less if water is contaminated).

Remove the filter by unscrewing the input hose connection and withdrawing the filter element.

Clean the element with fresh water. To replace, reverse the above procedure ensuring that all seals are in place.

## TROUBLESHOOTING

Fault	Cause	Remedy
Pressure Drops or Oscillates	Lack of Water Water Filter blocked	Check the water tap is fully ON Clean water filter
Motor hums when switched ON but fails to start	Mains voltage low Gun not activated  Power lead extension cable too small	Check electrical connections When switching ON the machine, operate the gun  Use an extension with conductors of sufficient cross section. (See Electrical Connections)
Machine fails to start, no sound from motor	Plug not connected correctly  Incorrect power voltage  Mains fuse blown or RCD tripped	Check plug and lead and repair/replace accordingly.  Check the plug, cable and switch.  Renew fuse or reset RCD
Motor stops	Thermal Overload has intervened	Check to ensure the power voltage is correct, wait for 5 minutes before trying to start again. (See Thermal Overload)
No detergent delivered	Injector clogged Container empty	Clean the spray gun nozzle Fill container
Irregular jet produced	Dirty high pressure nozzle in spray gun	Clean high pressure nozzle

## ACCESSORIES

The range of accessories listed below may be purchased from your CLARKE dealer.

Item	Part No.
5 Litres Detergent (Traffic Film Remover) .....	3050821
25 Litres Detergent (Traffic Film Remover) .....	3050820
5 Litres Wash 'n' Wax .....	3050815

## SPARE PARTS DIAGRAM



1.	Inlet Filter .....	ND180001
2.	Hose incl. Trigger Assy compl. ....	ND180002
3.	Lance .....	ND180003
4.	Nozzle .....	ND180004
5.	Detergent Bottle compl. ....	ND180005
6.	Wheel .....	ND180006
7.	Inlet Adapter .....	ND180007
8.	Handle .....	ND180008

## SPARE PARTS & SERVICING

For Spare Parts or Servicing, please contact your nearest dealer, or CLARKE International, on one of the following numbers.

**PARTS & SERVICE - 020 8988 7400**  
**PARTS & SERVICE FAX - 020 8558 3622**  
**PARTS E-MAIL - Parts@clarkeinternational.com**  
**SERVICE E-MAIL - Service@clarkeinternational.com**

# Clarke<sup>™</sup> INTERNATIONAL

This is an important document and should be retained

## DECLARATION OF CONFORMITY



We declare that this product complies with the following standards/directives:

- 98/37/EEC
- 2000/14/EC

Notifying Body: **KEMA. Utrecht Seweg 310  
6812 Arnhem, Netherlands**

Sound Power Level: **94dB<sub>LWA</sub>**  
Guaranteed

Description: **POWER WASHER**

Model No: **JETSTAR 1800**


Serial (Batch) No: **See Product Date Plate**

Signed:   
L.E. Fergusson  
Engineering Manager

**Clarke** INTERNATIONAL  
Hemnal Street, Epping, Essex CM16 4LG

DOC No. HO75/27

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 When disposing of this product, do not dispose of with general waste. It must be disposed of according to the laws governing Waste Electrical and Electronic equipment, at a recognised disposal facility.