

A SELECTION FROM THE VAST RANGE OF

Clarke®

QUALITY PRODUCTS

AIR COMPRESSORS

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

GENERATORS

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

POWER WASHERS

Hot and cold, electric and engine driven - we have what you need.

WELDERS

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

METALWORKING

Drills, grinders and saws for DIY and professional use.

WOODWORKING

Saws, sanders, lathes, mortisers and dust extraction.

HYDRAULICS

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

WATER PUMPS

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

POWER TOOLS

Angle grinders, cordless drill sets, saws and sanders.

STARTER/CHARGERS

All sizes for car & commercial use.



Clarke® POWER WASHER



JET 5000 POWERWASHER

CE

0401

OPERATING & MAINTENANCE INSTRUCTIONS

Product Serial/Batch Number:.....

©

Clarke INTERNATIONAL

For spare parts and servicing, please contact your nearest dealer, or Clarke International on

020 - 8988 - 7400

e-mail: Parts@clarkeinternational.com e-mail: Service@clarkeinternational.com

Hemnal Street, Epping, Essex CM16 4LG

Clarke

POWER

Clarke
INTERNATIONAL



DECLARATION OF CONFORMITY

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

- 89/336/EEC
- EN 292/2/91
- EN 60335-1/95
- 73/23/EEC
- 89/392/EEC
- 91/368/EEC
- 93/44/EEC
- 93/68/EEC

Product Description: **POWER WASHER**

Model Number: **JET 5000**

Serial (Batch) No: **See front cover**

Signed

A handwritten signature in black ink, appearing to be 'L. S. 74', written over a horizontal line.

Clarke INTERNATIONAL
Hemnal Street, Epping, Essex CM16 4LG

Clarke International is a trading style of Clarke International Limited

ACCESSORIES

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

ITEM	Part No.
Car Brush	7310110
Rotary Brush.....	7310104
Water Sandblaster	7310106
Drain Cleaner	7310117
Turbo Nozzle	7334000
Extension Hose 10M	7310120
5 Litres Detergent (Traffic Film Remover)	3050821
25 Litres Detergent (Traffic Film Remover)	3050820
5 Litres Wash 'n' Wax	3050815
Sand (For use with Sand blaster)	7320005

SPECIFICATIONS

Motor	230V 50Hz 1 Ph
Power Rating	2200W
Fuse rating	13 Amps
Max. Pressure	1900psi (130Bar)
Max. Water Flow	7.5 Litre/min
Max. Inlet Water Temp.	50°C
Weight	18 kg
Dimensions	26x30x60 cm
Part No.	7333200

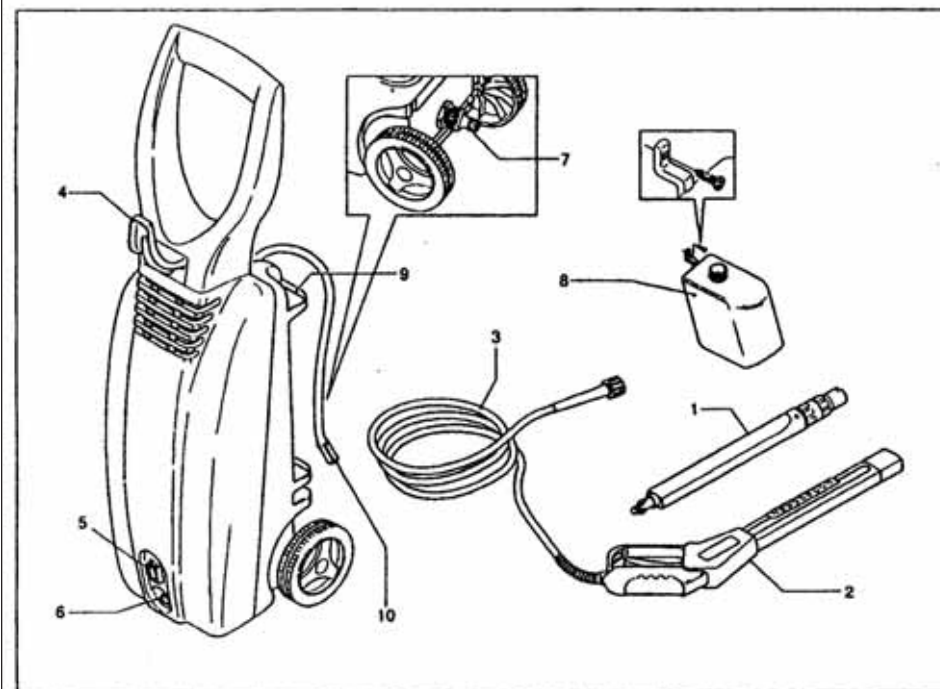
Please note that the details and specifications contained herein, are correct at the time of going to print. However, CLARKE International reserve the right to change specifications at any time without prior notice. Always consult the machine's data plate

Clarke
INTERNATIONAL

UNPACKING

Before assembling your new Jet 5000 Powerwasher, check to ensure that all parts listed below are included.

- Powerwasher with cable and plug.
- Gun assembly with high pressure hose.
- Lance with nozzle assembly.
- Inlet hose connector.
- Detergent Tank.
- Bag containing one hex. wrench and one wire prod.



Principle Parts

- | | |
|---|----------------------------------|
| 1. Lance with Nozzle | 6. High Pressure Hose Connector. |
| 2. Gun Assembly | 7. Inlet Hose Connector. |
| 3. High Pressure Hose. | 8. Detergent Tank. |
| 4. Holder for power cable and High Pressure Hose. | 9. Holder for Lance/accessories. |
| 5. ON/OFF Switch | 10. Detergent Suction Hose. |

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.
7. Never operate the machine with any of the covers removed.
3. 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 water to the water inlet.
10. Use only chemical cleaning agents (detergents) approved for power washing.
11. Never use the detergent facility to introduce solvents eg. paint thinners, petrol, oil, etc.
12. Do not operate the machine whilst standing on ladders: use a platform tower or scaffolding.
13. Children should not be allowed to use the machine.
14. We recommend the use of safety goggles when using this 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.
15. When not in use, disconnect from the water and electrical supply's, and ensure the system is completely drained. Store indoors in a dry, frost free environment.

TROUBLE SHOOTING

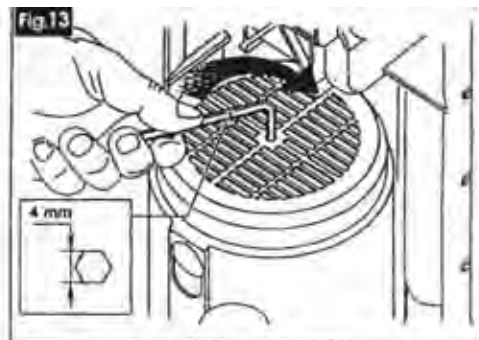
FAULT	CAUSE	REMEDY
Pressure drop	Air in system	Bleed system by quickly operating trigger several times. If necessary operate the machine briefly without the high pressure hose connected.
	Worn high pressure nozzle. Pressure regulator incorrectly set	Renew nozzle Set to required pressure by pulling OUT, or pushing IN, the nozzle (see p9.)
Pressure fluctuations or pressure drop	No water	Turn on water tap
	Water supply hose too long/ too small diameter No water due to clogged filter	Use min 1/2" dia. water supply hose Clean water filter (A water inlet filter is strongly recommended)
Oil leak	Worn seals	Contact your CLARKE Distributor
Motor does not start when switched on*	Plug is not connected properly.	Check plug and lead and have them replaced by a qualified electrician if necessary
	Mains fuse tripped/blown	Renew fuse or reset.
Motor hums when switched on and does not start	Mains voltage too low	Have electrical connection checked
	Incorrect dia cable resulting in voltage drop Trigger Switch not operated	Use correct diameter of cable Operate trigger
Motor cuts out	Motor protection switch has been activated due to overheating or motor overload.	Ensure supply voltage and unit voltage are equal. Switch off and allow to cool for at least three minutes
	Nozzle clogged	Clean using the supplied nozzle cleaning needle
Additives are not being supplied	Foot Filter clogged	Clean thoroughly
	Additive container empty	Fill additive container
	Lance not correctly set	Put lance on low pressure setting

* If the washer is switched OFF and then switched back ON, when there is still pressure in the pump (i.e. without operating the trigger), the pump will not start until such time that the trigger is pulled.

the motor.

Once the hex wrench is engaged, through the fan grille, turn the motor to free the seals as shown in fig. 13.

When the motor turns freely, withdraw the hex wrench, replace the front cover, reconnect the electrical and water supply's, and go through the correct procedure for starting.



Water input filter

Located at 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.

PARTS and SERVICE

Clarke
INTERNATIONAL

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

SERVICE: Service@clarkeinternational.com

16. Disconnect from the mains supply before carrying out any maintenance or servicing.
17. Never pull the washer by the power cable, or yank it to disconnect the plug from the socket.
18. Keep all connections dry. Do not touch the plug with wet hands
19. Avoid crushing or rolling over the power cable.
20. Keep the power cable away from heat, oil or sharp edges.
21. Do not allow the high pressure hose to become crushed, stretched, kinked or twisted.
22. Do not move the washer by pulling the high pressure hose.
23. If the washer is used indoors, ensure there is adequate ventilation to avoid overheating.
24. NEVER allow the machine to run for more than 3 minutes without operating the trigger
25. Always operate this machine in an UPRIGHT position.

ELECTRICAL CONNECTIONS

WARNING: THIS MACHINE MUST BE EARTHED.

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:

Green & Yellow	-	Earth
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 GREEN & YELLOW coloured cord to plug terminal marked with a letter "E" or Earth symbol "⏏".

Connect BROWN coloured cord to plug terminal marked letter "L"

Connect BLUE coloured 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** and ASTA approved to BS1362.

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 (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 it is fully unwound. When used outdoors, ensure the extension cable is specifically designed for outdoor use.

The maximum extension length is 25 metres. In addition, the conductors in the extension cable should be thicker than those in the cable supplied with the washer.

IF IN DOUBT, CONSULT A QUALIFIED ELECTRICIAN.

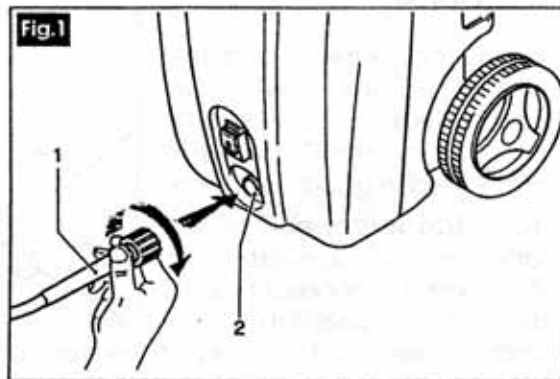
Never attempt any repair yourself

ASSEMBLY AND PREPARATION FOR USE

A. High Pressure Hose

Remove travel cap from water outlet connection, insert, and push home, the high pressure hose (1) into the connector (2) on the machine.

Tighten ring nut by hand taking care not to overtighten



CARE AND MAINTENANCE

WARNING:

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

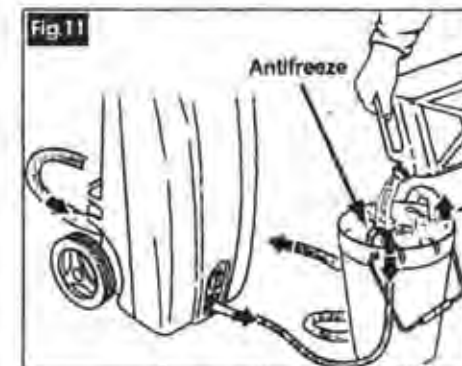
After each use

If cleaning agents have been used, ensure the system is cleaned by setting the nozzle to high pressure and allowing the machine to run for a minute or two until the water being ejected is perfectly clear.

Storage

Store the Jetstar 5000 in an upright position.

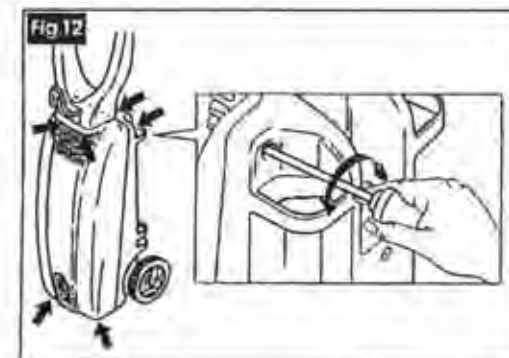
If there is a danger of freezing, insert the inlet and outlet hoses into a bucket of antifreeze as shown in Fig. 11. Start the machine and allow the antifreeze to circulate. After a short time stop the machine, and store with the antifreeze still within the pump body.



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, disconnect the machine from the electrical and water supply's, and proceed to free them as follows:

Remove the front cover by removing the 6 screws as indicated in Fig. 12. This will give easy access to the hex. socket head screw, which secures the fan, on the top of



CHEMICAL CLEANING AGENTS

To improve cleaning qualities, it is possible to introduce chemical cleaning agents (detergents) into the low pressure spray. 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 local dealer.

To prepare for detergent application, ensure the trigger safety latch is set to prevent the trigger from being pulled accidentally.

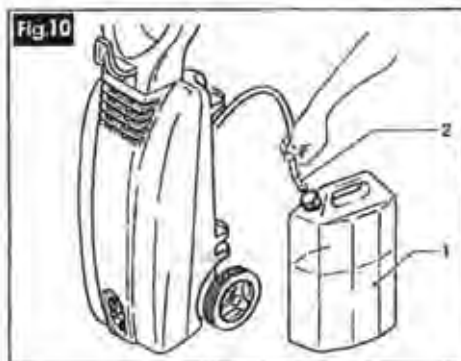
Fill the detergent tank with detergent and set the lance nozzle to LOW pressure.

Alternatively, an external source of detergent may be used as shown in fig.10. Remove the hose from the detergent tank and lower it into the container of detergent.

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

To clean, set the nozzle to high pressure and blast off the dirt.

IMPORTANT: Ensure you read and comply with the manufacturers instructions regarding the use of chemical detergents.



ACCESSORIES

Your Jet 5000 power washer can be used with a wide range of optional accessories available from your local dealer (see page 14 for a full list). To use the accessories you must first remove the lance from the gun assembly by twisting clockwise looking down from the handle end, and pulling the lance free. The accessory can then be connected to the handle assembly in a similar manner to the lance.

B. Water Supply Hose

Attach the hose to the water supply. This connection must be tight to avoid leaks.

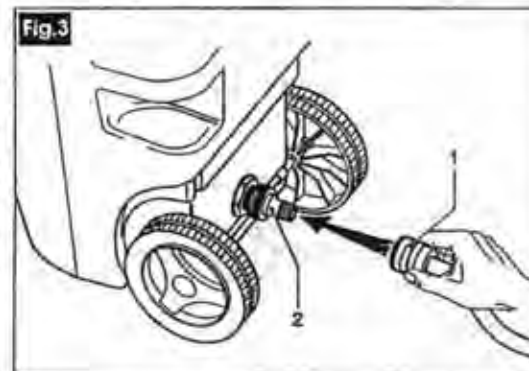
Ideally, use an adapter with a quick fit coupling, as shown in fig.2. (These are not supplied but readily available from most DIY or hardware stores).

NOTE: *Hose is not supplied. Use a good quality hose of at least 1/2" (13 mm) diameter.*

Attach the other end of the hose to the Inlet Hose Connector supplied, and secure with a worm drive clip, (not supplied), or use a quick fit coupling as shown in fig.3 (not supplied but readily available from most DIY or hardware stores)

NOTE:

1. Cold or hot water (up to 50°C) can be used.
2. 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.

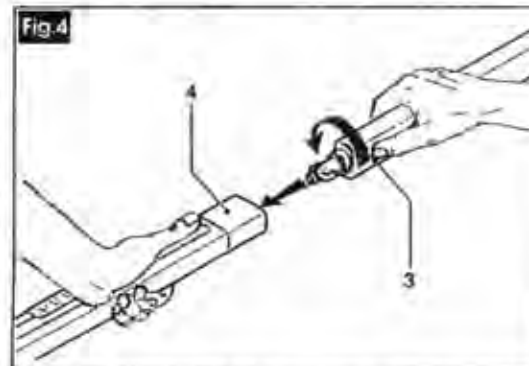


B. Lance

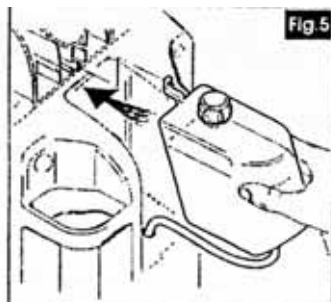
At the opposite end to the nozzle is a spigot with two integral lugs, and a rubber O-ring. Ensure the O-ring is in place and in good condition.

Insert the spigot end of the lance into the Gun assembly. Push home firmly and twist to lock it in position. Twist

anticlockwise looking down from the handle end, DO NOT attempt to disassemble the lance.



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



C: Detergent Tank

If not already fitted, attach the detergent tank to the machine using the screw provided, as shown in fig 5.

OPERATION

Make certain the ON/OFF switch is set in the OFF position.

IMPORTANT: the Jet 5000 must be operated in an upright position.

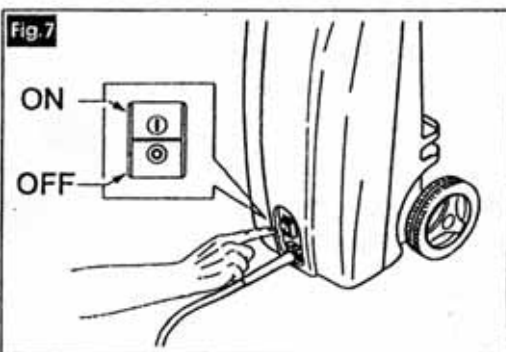
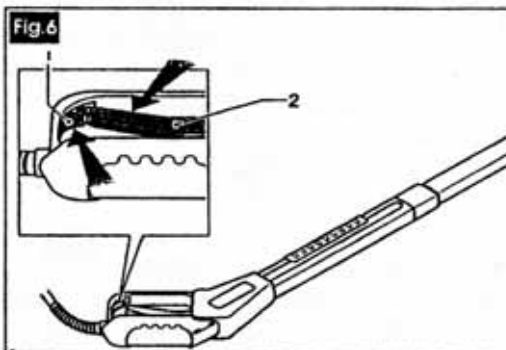
Connect the plug to the mains supply, preferably via a Residual Current Device.

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, (see fig. 6), and hold the trigger in that position whilst switching the motor ON by pressing 'I' (see fig 7), and allowing the pump to develop full pressure.

You may release the trigger once full pressure is developed. When you do so, a safety switch will cut IN turning the motor OFF to avoid the possibility of damage to the motor, which could occur should it be left to run with pressure in the system (i.e. without pulling the trigger), for a period of time. **Nevertheless You should NEVER**



You should **NEVER** allow the machine to run for more than 3 minutes without operating the trigger.

As soon as you pull the trigger again, the motor will cut in and water at pressure will be ejected. To switch OFF - press the 'O' button shown in fig.7, and get into the habit of **ALWAYS** pressing the trigger to release any pressure in the hose. **NEVER** disconnect a high pressure hose without operating the trigger first.

WARNING

Be aware that when the trigger is pulled, water at high pressure can cause the lance to kick - 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 cause damage if the jet is trained on a nearby wall

As explained above, whenever you release the trigger, the motor will automatically stop, conserving energy and reducing pump and motor wear. It will cut in again when the trigger is pulled. This process will continue for as long as the machine is switched ON.

In the event that you switch the machine OFF, but intend to continue with its use after a few minutes or so, **DO NOT** depress the trigger, but set the safety latch to prevent it from being accidentally pulled. This will ease and assist the subsequent restarting of the motor, as pressures will remain equalised on either side of the pump, thereby reducing the load on the motor when restarting.

IMPORTANT:

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

PRESSURE SETTINGS

High and low pressure is achieved by pushing out, or pulling in, the nozzle (Fig. 9).

HIGH pressure - IN

LOW pressure - OUT

Pressures are factory set and cannot be adjusted.

Additionally, a fan spray may be used by twisting the nozzle as shown in figs. 8.

