



SPARE 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 SERVICE: Service@clarkeinternational.com

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WASH

TROUBLESHOOTING

Fault	Cause	Remedy	
Machine will not start	 No electrical power Electrical defect 	1. Check cable, plug, fuse 2. Return to service agent	
Motor will not rotate electrical and water	1. Pump seals dry after	1. Disconnect from period of storage supply's and free seals - refer to Care & Maintenance, page 9	
Machine blows fuses when starting	 Pump seals dry after a period of storage Pressures in system uneven 	 Free off pump seals refer to maintenance p8. Refer to starting procedure p6. 	
Machine will not come up to pressure	 Pump sucking in air. Intake filter blocked Defective pump 	 Check for leaks in hose. Clean filter Return to service agent. 	
Motor will not restart when trigger pressed.	 Defective safety switch (Unit switched ON, with pressure in system) 	1. Return to service agent.	
Motor will not stop when trigger released.	 Defective safety switch (Unit switched ON, with pressure in system) 	1. Return to service agent	

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Thank you for purchasing this CLARKE Jetstar Powerwasher.

This machine is a lightweight, portable, high pressure power washer, designed for DIYuse.

It comprises an electric motor, a pump, a high pressure hose with a trigger and lance, and an adaptor for injecting foam or 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, 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.

PRE- ASSEMBLY CHECKS

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

- Jetstar Powerwasher with cable and plug.
- Trigger/Handle assembly with high pressure hose.
- Lance with nozzle assembly.
- Inlet hose connector.
- Detergent/foam lance.
- Detergent/foam container.
- Bag containing one hex. wrench and one wire prod.

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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.
- 8. 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
- 9. Never supply any liquid other than **CLEAN** water to the water inlet.
- 10. Use only chemical cleaning agents (detergents) approved for power washing when using the foam lance.
- 11. Never use the foam lance to introduce solvents eg. paint thinners, petrol, oil, etc.
- 13. Do not operate the machine whilst standing on ladders: use a platform tower or scaffolding.
- 14. Children should not be allowed to use the machine.
- 15. We recommend the use of safety goggles when using machine with sand blasting attachment (optional accessory see Page 11), or any application where loose particles of stone or grit etc. may be blown around by the high pressure spray.
- 16. 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.
- 17. Disconnect from the mains supply before carrying out any maintenance or servicing.
- 18. Never carry the washer by the power cable, or yank it to disconnect from the socket. Keep the cable away from heat, oil or sharp edges.

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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
Two Wheel Trolley	7310102
Lance Extension	7310122
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

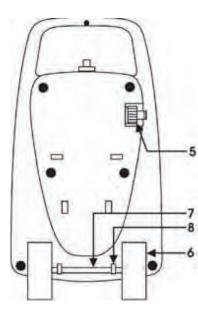
SPECIFICATIONS

	Jetstar 1550	Jetstar 1600	Jet 3000
Motor	230V 50Hz 1 Ph	230V 50Hz1 Ph	230V 50Hz 1 Ph
Power Rating	1.3HP	1.6HP	1.4HP
Max. Pressure	1200psi (82Bar)	1500psi (102Bar)	1400psi (95Bar)
Max. Water Flow	7 Litre/min	7.5 Litre/min	6.7 Litre/min
Max. Inlet Water Temp.	50°C	50°C	50°C
Gross Weight	14kg	14kg	13kg

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WASH

Jet 3000



Part Nos, for Jet 3000 are the same as those for Jetstar 1600, except for item 5, which has 3 components shown below, the Hex wrench, plus additional components:

No.	Description	Part No.		
5A	LP Water Inlet Adapter Ring	FP52037300		
5B	LP Water Inlet Adapter Gasket	FP52037400		
5C	LP Water Inlet Adapter Hose Holder	FP52037500		
-	Hex. Wrench (for turning motor)	FP15609900		
6	Wheel	FP17807000		
7	Axle	FP52436400		
8	Axle Clamps	FP50148700		
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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 etter "E" or Earth symbol " \pm ".
- 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 ASTA approved to BS1362. AND 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 gwgy 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 it is fully unwound. When used outdoors, ensure the extension cable is specifically designed for outdoor use.

The maximum extension length is 25 metres. Ensure that the wire sizes in the cable is at least 0.75mm² in cross section. As a general rule, the extension cable must be thicker than the cable supplied with the washer.

IF IN DOUBT. CONSULT A QUALIFIED ELECTRICIAN.

Do not attempt any electrical repairs yourself.

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ASSEMBLY AND PREPARATION FOR USE.

A. High Pressure Hose

Remove the plastic travel cap from the threaded high pressure outlet, and screw on the high pressure hose firmly.

The outlet on the Jetstar 1550 and 1600 models is at the front of the unit - opposite end to power cable inlet, on the Jet 3000 model, it is mounted on the front handle end.

B. Lance

At the opposite end to the nozzle is a 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 trigger/handle 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 or similar, will assist when joining the parts together.

C. Water Supply Hose

Remove the temporary travel cap from the threaded inlet connection and ensure that the sealing ring is in place.

The water inlet on the Jetstar 1550 and 1600 models is on the left front of the unit, on the Jet 3000 model it is mounted on the bottom left - handle end.

Attach a suitable hose to the inlet hose connector, and secure with a worm drive clip, (hose and worm drive clip are not supplied).

NOTE:

- 1. Use a good quality hose of at least 1/2" (13 mm) diameter.
- 2. Check to ensure that the filter is correctly located inside the inlet connection.

Screw on the inlet connector, with hose attached, to the water inlet. This connection must be tight to avoid leaks.

Secure the other end of the hose to your tap using a suitable tap adaptor (not supplied) CLEAN, cold or hot water (up to 50°C) can be used.

NOTE:

- 1. 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.
- 2. Hose, worm drive clips and other accessories are readily available from all good DIY, Hardware and Garden Supplies Stores. 6

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PARTS LISTS & DIAGRAMS

Jetstar 1550 & Jetstar1600



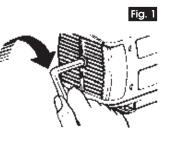
		Jetstar 1550	Jetstar1600
No.	Description	Part No.	Part No.
1	High Press. Hose c/wHandle Assy	FP60600107.88	FP60600107.88
2	Lance Assembly	FP60710100	FP60710000
3	Detergent Lance c/w plastic tube	FP60603800	FP60603800
4	Detergent Bottle	FP15603400	FP15603400
-	Detergent Bottle Cap	FP15603401	FP15603401
5	LP Water Inlet Adapter c/w O-Ring		
	and Rubber Washer	FP18106400	FP18106400
-	Hex. Wrench (for turning motor)	FP15607000	FP15607000
-	Water Inlet Filter	FP52066500	FP52066500
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A JETSTAR 1550 and 1600

Thread the hex. wrench (supplied), through the hole in the cover, at the centre of the rear of the unit, (see Fig.1), and into the hex. socket mounted on the rear of the motor, which is visible through the hole.

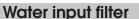


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Fig. 2

B. JET 3000

It will be necessary to remove the top cover by removing the 7 screws from beneath the machine as indicated in Fig. 2. This will give easy access to the hex. socket on the rear of the motor, which is located on the front of the machine. Once the hex wrench is engaged, turn the motor to free the seals. When the motor turns freely, withdraw the hex. wrench, (reassemble the cover in the case of the Jet 3000), reconnect the electrical and water supply's, and go through the correct procedure for starting.



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.

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OPERATION

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

On the Jetstar 1550 and 1600 models, the switch is a rotary type mounted on the left side front of the unit. On the Jet 3000 it is a rocker type mounted on top.

NOTE: Do not operate the Jet 3000 in an upright position - it must rest on its' wheels.

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, 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 safety switch will cut IN turning the motor OFF. This prevents the possibility of damage to the motor, which could occur should it be left to run with pressure in the system (ie. without pulling the trigger), for a period of time.

As soon as you pull the trigger again, the motor will cut in and water at pressure will be ejected.

WARNING!

Ensure the operator is aware that when the trigger is pulled, water at high pressure can cause the lance to kick fiercly - 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.

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.

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

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A high pressure jet or fan spray may be used. A fan spray is achieved by turning the nozzle as shown below.



Chemical Cleaning Agents

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

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

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

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, together with the container, thoroughly with clean water.

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

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ACCESSORIES

Your Jet Star power washer can be used with a wide range of optional accessories available from your local dealer (see page 11 for a full list).

To use the accessories you must first remove the lance from the handle assembly by twisting it 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.

CARE AND MAINTENANCE

WARNING:

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

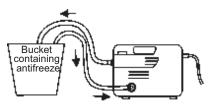
After each use

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

Storage

Store the Jetstar 1550 and 1600 washer in an horizontal postion. The Jet 3000 may be stored upright.

If there is a danger of freezing, insert the inlet and outlet hoses into a bucket of antifreeze as shown in the diagram, 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, disconnect the machine from the electrical and water supply's, and proceed to free them as follows:

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