



# 2000W Pressure Washer

RACHP221



Always Read Instruction Manual  
Retain for Future Reference

# SAFETY AND WARNING INFORMATION

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**Read and retain these instructions for future reference.**

## **WARNING:**

Read the instructions fully before using the product for the first time.

Failure to follow the instructions may result in fire, electric shock and or serious injury.

We recommend the user wears safety equipment during use.

We recommend the product be used with a RCD (Residual Current Device) with a trip current of 30mA.

Disconnect from the electrical power supply before carrying out any user maintenance.

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- When operating the unit in high pressure mode the lance may cause kickback. Therefore please ensure that you hold the spray gun firmly. When using the unit we recommend that other people are at least 10m away from the working area.
- High-pressure jets can be dangerous if misused. The jet **MUST NOT** be directed at yourself, other people, animals, live electrical equipment or the pressure washer itself. The trigger gun safety lock prevents the trigger from accidentally being engaged. This safety feature does not lock trigger in the 'on' position.
- Do not use the pressure washer if the supply cord or other important parts are damaged (e.g. high pressure lance or hoses). Never carry your pressure washer by the cord.
- Do not disconnect the high-pressure hose whilst the system is under pressure. This system is capable of producing 1500PSI. To avoid rupture and injury, do not operate this pump with components rated less than 1500PSI working pressure (including but not limited to spray guns, hose and hose connections.)
- Do not use acids or flammable liquids in the machine.
- When using a pressure washer always ensure that your water connection is protected by a backflow preventer (as per water byelaws). This will avoid possible contamination of your water supply. Use cold water feed only.
- Protect the unit against freezing; avoid storing the machine where it may be susceptible to frost.
- •Prior to starting the pressure washer in cold weather, be sure ice has not formed in any part of the equipment.
- The unit must continuously run with water. Dry running will cause serious damage to the seals.
- The water supply hose must be at least 12.5mm (½") in diameter with a minimum recommended length of 7.5 meters and be fitted with a suitable coupling that matches the male quick fit connector.
- Use only original spare parts from the manufacturer or approved by the manufacturer.

**WARNING:** High pressure hoses, fittings and couplings are important for the safety of the appliance. Only use hoses, fittings and couplings recommended by the manufacturer.

**IMPORTANT:** The pressure washer is equipped with an auto stop device. When the trigger is released it will open the power circuit to the motor and cause the pressure washer motor to stop. The motor will resume when the trigger is pulled. The pressure washer is also equipped with a main power ON/OFF switch located on the unit. It should always be moved to OFF position when the pressure washer is not being used.

This Product is a class I product, Only a qualified person should carry out servicing.

If an extension lead is to be used with this product, please ensure:

- Use only extension leads that are intended for outdoor use and the plug and socket are of a watertight construction.
- Completely unwind the cable from the drum to allow for full current rating of the extension lead.
- To reduce the risk of electrocution, keep all connections dry and off the ground.
- Do not touch the plug with wet hands

**Warning:** Inadequate extension leads can be dangerous.

**NEVER START-UP A FROZEN MACHINE.**

**Frost damages are not covered by the guarantee!**

# COMPONENTS



## COMPONENT LIST:

- |                               |  |
|-------------------------------|--|
| 1. Handle                     | 12b. Quick connector (Male)              |
| 2. Mains cable holder         | 13. Soap dispenser                       |
| 3. Trigger gun holder         | 14. Rotary brush                         |
| 4. Mains cable                | 15. Fixed brush                          |
| 5. Wheels                     | 16. Turbo lance                          |
| 6. Mains water supply inlet   | 17. High pressure adjustable spray lance |
| 7. High pressure hose hook    | 18. Patio cleaner extension              |
| 8. On/Off rotary switch       | 19. Trigger gun                          |
| 9. High pressure outlet       | 20. Cleaning needle                      |
| 10. High pressure hose        | 21. 2x 25mm fixing screws                |
| 11. Compact patio cleaner     | 22. 2x 15mm fixing screws                |
| 12a. Quick connector (Female) | 23. Instruction booklet                  |

## TECHNICAL SPECIFICATIONS:

Model:	YLQ5.23SC-150	Rated pressure:	110Bar (11MPa)
Net Weight:	12Kg	Max pressure:	150Bar (15MPa)
Voltage:	220 - 240V AC ~ 50Hz	Rated flow:	6.67 l/min
Rated input power:	2000W	Rated temperature:	0-40°C
Protection class	II	Max. inlet pressure:	0.7MPa
Degree of protection:	IPX5	Sound pressure level LpA:	77dB(A)
Input Fuse Size:	13A	Sound pressure level LwA:	92dB(A)
		Hand-arm vibration:	1.8m/s

# UN-PACKING AND ASSEMBLY

Unpack the box carefully retaining all of the packaging until you have checked the contents to the list on page 2.

Your pressure washer has been factory tested. Due to this, you may find that there is a residue of water inside the unit.

**NOTE:** Before carrying out any assembly or disassembly of the unit please ensure that the unit is not connected to the electrical supply.

## Mounting the handle and Hose Holder

1. Assemble the handle (1) by slotting it into the top of the pressure washer and securing it using the 2x 25mm screws (21).
2. Assemble the High Pressure Hose Hook (7) and secure it using the 2x 15mm screws (22).



## Assembly of the Patio Cleaner

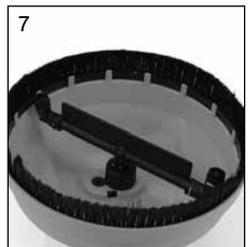
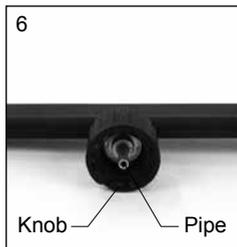
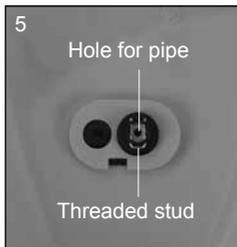
**Components:** (No. 11 in IB)

1. Connector (Fig 1)
2. Cleaner Head (Fig 2)
3. Spinner (Fig 3)



## Assembly:

1. Place the Connector (1) on top of the Cleaner Head (2) (fig 4). There are two holes, one small and one large.
2. Place the threaded stud on the connector (1) (fig 1), through the large hole (fig 5).
3. Push the pipe on the Spinner (3) (fig 6) into the hole on the connector (1) (fig 5).
4. Turn the knob (fig 6) clockwise until tight. Do not over tighten. See fig 7 for assembled unit.



### Connecting the Trigger Gun

Connect the High Pressure Hose (10) to the Trigger Gun (19) and tighten lightly with a 17mm spanner (not supplied).



## OPERATING INSTRUCTIONS

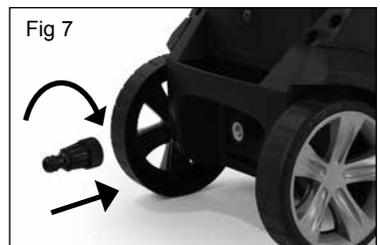
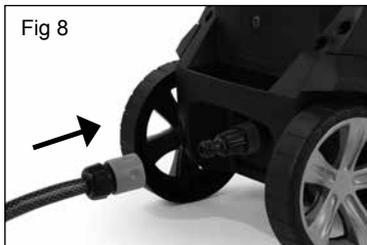
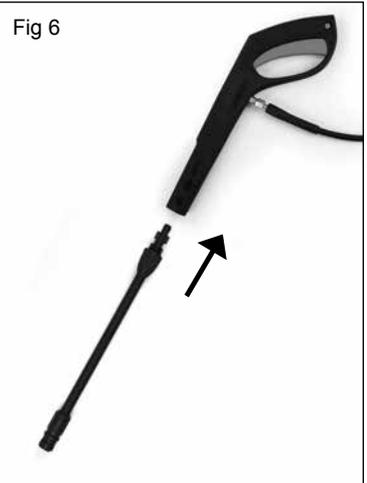
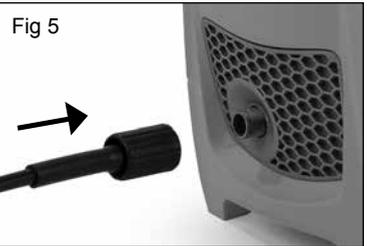
Remove the plastic protection cap from the high pressure outlet (9) and connect the high pressure hose (10) to high pressure outlet as shown in Fig 5.

Fit the either lance (16) or (17) into the trigger gun (19) by pushing the lance into the trigger gun and locating the lugs, at the same time turn clockwise to lock into position, (Fig 6).  
Note: Do not fit lances when the power is on.

Remove the plastic protection cap from the water inlet supply. Fit the quick connector male part (12b) to the water inlet supply (Fig 7). Make sure it is fully tightened (do not over tighten).

**Note:** The inlet filter must always be fitted in the water supply inlet pipe to filter out debris and other impurities as these will damage the pump valves.  
Caution: Failure to fit the filter will invalidate the guarantee.

Connect the quick connector female part (12a) to your garden hose (not supplied).  
Connect your garden hose to the washer by pushing on the female part (12a) to the male part (12b) until it clicks into position, (Fig 8). Sometimes this can be very stiff and you may need to assert some pressure to achieve this. If the connector is not connected correctly then the connector may leak or the force of the water push it off.  
To remove the hose, pull back the collar and pull.



# OPERATING INSTRUCTIONS

Connecting you pressure washer to the mains water supply. Connect your hose to the mains water supply as per fig 9. Always ensure you have a good water supply & that there are no kinks in the hose.

Fig 9

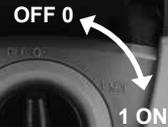
**Mains supply hose adaptor, not supplied.**



## Note:

Before connecting to the mains power supply please ensure that the ON / OFF switch is in the OFF position (fig 10) and the water supply is connected and is turned on. Running the pressure washer without any water supplied to it will damage the pump.

Fig 10



## Instructions for use

- Once the unit is fully assembled, ensure that the unit is switched OFF and is connected to the mains supply and the water supply; Pull the trigger a few times to expel any air trapped in the system.
- Ensuring that the trigger is released, switch ON the pressure washer. The unit is now ready to operate by pulling the trigger.  
We recommend that this product is only used in an up-right position.

Fig 11

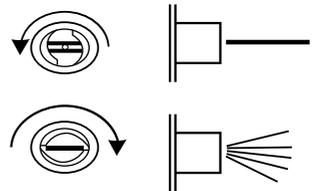
**Trigger Gun Lock**



## Note:

The motor only runs when the trigger is operated. When the pressure washer is not in use, we recommend that you lock the gun using the trigger lock for safety reasons (Fig11). Switch the unit OFF when not in use for extended periods of time and expel pressurised water in the unit by operating the trigger gun while the unit is in the OFF position.

Fig 12



## Helpful Hints

Before starting cleaning remove any objects which could cause a hazard.

Ensure that all doors and windows are closed (where appropriate).

The adjustable lance allows you to use a variety of spray patterns from a wide stream to a narrow steam (fig 12).

When using the pressure washer to clean decking, patios, vehicles, etc., always start by using the fan spray and begin spraying from a minimum 30cm away to avoid damaging the surface of the material to be cleaned.

The pressure of the spray on the surface you are cleaning increases as you move the nozzle closer to the surface. We recommend that for most cleaning applications a 45° spray angle should be used to avoid damaging the surface being cleaned. Spraying directly "head-on" tends to cause dirt particles to embed in the surface.

**WARNING:** Do not adjust the nozzle while the trigger is squeezed.

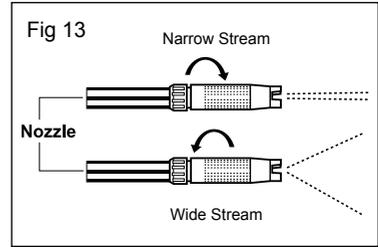
# OPERATING INSTRUCTIONS

## ADJUSTING FAN PATTERN

The angle of spray coming out of the High pressure adjustable spray lance (17) may be adjusted by rotating the nozzle. This will vary the spray pattern from a narrow high impact jet to a wide fan spray (See Fig 13).

A narrow stream has high impact force on the cleaning surface and results in maximum deep cleaning in a concentrated area. However, this narrow high impact spray must be used cautiously, as it may damage some surfaces.

A wide fan pattern will distribute the impact of the water over a larger area, resulting in excellent cleaning action with a reduced risk of surface damage. Large surface areas can be cleaned more quickly using a wide fan pattern.

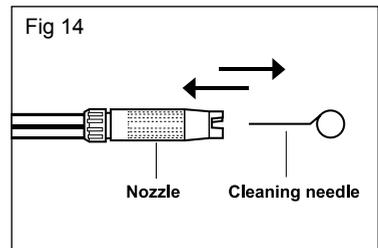


## NOZZLE CLEANING INSTRUCTIONS

A clogged or partially clogged nozzle can cause a significant reduction of water coming out of the nozzle and cause the unit to pulsate or totally stop while spraying.

To clean out the nozzle:

- Turn off and unplug the unit.
- Turn off the water supply and relieve any pressure within the unit by squeezing the trigger 2-3 times
- Separate the lance from the gun.
- Rotate the nozzle to the narrow stream setting. This opens up the fan blades.
- Using the cleaning needle (20) or an unfolded paper clip. Insert the needle into the nozzle hole and move it back and forth until the debris is dislodged (Fig 14).
- Remove additional debris by back-flushing water through the nozzle. To do this, place the end of a garden hose (with water running) to the end of the nozzle for 30-60 seconds.



## TURBO LANCE

A turbo lance is a very effective tool that can significantly reduce cleaning time.

The turbo lance uses a narrow high impact jet.

## CAUTION:

Since a turbo lance uses a narrow high impact jet, only use it in applications where the cleaning surface cannot be damaged by a narrow high impact spray. Always test on an inconspicuous area first to ensure you do not damage the surface.

**Note:** The turbo lance is NOT adjustable and cannot be used to apply detergent.

## Brushes

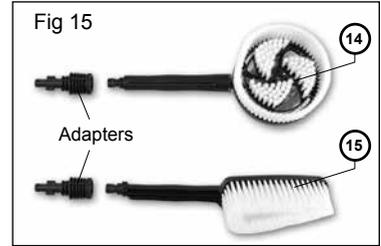
Your RAC pressure washer is supplied with a rotary brush and a fixed brush (see fig 15). Both have soft bristles which are ideal for cleaning car bodywork, windows, etc.

This is a low pressure setting.

The brushes connect to the trigger gun (19).

There is an adapter with each brush; you must fit it before connecting to the trigger gun.

Note: Do not fit brushes when the power is on.



## WARNING!

Ensure the brush is clean and free from debris.

We do not recommend that you use the rotary brush on your car's paintwork.

Ensure the surface to be cleaned is sound and will not be damaged by the brushing action. Test on an inconspicuous area first.

Any grit or debris on the surface to be cleaned or in the brush can cause damage to that surface. Please ensure both are checked prior to cleaning.

## Patio Cleaner

Your RAC pressure washer is supplied with a compact patio cleaner (11) which connects to the trigger gun (19) via the patio cleaner extension (18).

The Patio Cleaner is the perfect tool for cleaning large areas quickly and reduces excess spray.

Hold the patio cleaner just above the surface to be cleaned and use in a sweeping motion.

## PLEASE NOTE:

The bristles on the patio cleaner are NOT for scrubbing surfaces.

The bristles are to prevent water and dirt from being sprayed everywhere.

Hold the patio cleaner just above the surface to be cleaned and use in a sweeping motion.

Since a patio cleaner uses a high impact stream, only use it in applications where the cleaning cannot damage the surface by a high impact spray. Always test on an inconspicuous area first to ensure you do not damage the surface.

**Note:** The patio cleaner is not adjustable and cannot be used to apply detergent

**Note:** Do not fit the patio cleaner when the power is on.

**DO NOT SCRUB!**

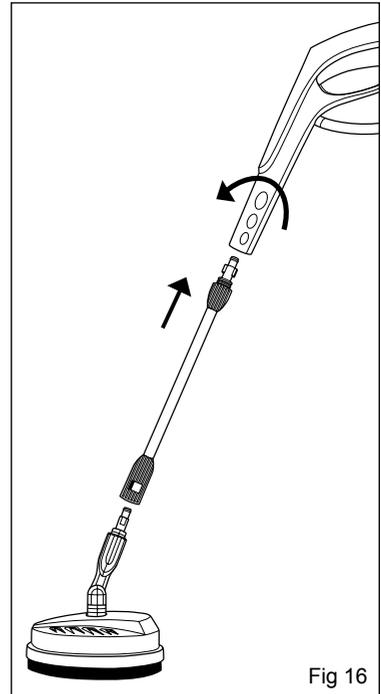


Fig 16

# OPERATING INSTRUCTIONS

## HOW TO AVOID DAMAGING SURFACES

Damage to cleaning surfaces occurs because the impact force of the water exceeds the durability of the surface. Never use a narrow high impact jet or a turbo/rotary nozzle on a surface that is susceptible to damage. Avoid spraying windows with a narrow high impact jet or turbo nozzle as this may cause breakage.

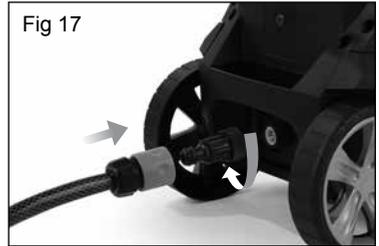
Follow these simple steps to avoid damaging your surfaces:

1. Before triggering the gun, adjust the nozzle to a wide fan pattern.
2. Place the nozzle approximately 4-5 feet cleaning surface and begin spraying.
3. Vary the fan pattern spray angle and the distance to the cleaning surface until optimum cleaning efficiency is achieved without damaging the surface.

## WATER INLET FILTER

The water inlet filter must be inspected regularly, so as to avoid blockage and restriction in the water supply to the pump (Fig 17).

Fig 17



## DETERGENTS

The use of detergents can dramatically reduce cleaning time and assist in the removal of difficult stains. Some detergents have been customized for pressure washer for specific cleaning tasks. These detergents are approximately as thick as water.

### *Detergent Applicator*

Only use detergents that are specifically made for pressure washers or you could damage the seals/ components inside the pressure washer.

Follow the detergent manufacturer's directions for mixing the correct concentrations of detergent to water. The ratio through the pressure washer is approximately 5.4% (1 to 19).

1. Unscrew top of detergent container and fill container with detergent.
2. Replace top on container.
3. Attach detergent container to gun.

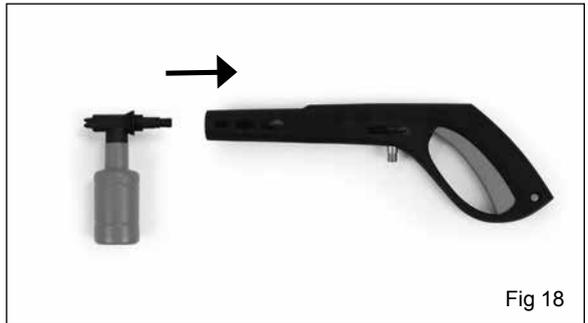


Fig 18

If the detergent is used too quickly, we recommend that you dilute the detergent in the container with water. The use of thicker detergents, such as washing-up liquid, will clog the chemical injection system and prevent the application of the detergent.

The cleaning power of detergents comes from applying them to a surface and giving the chemicals time to break down the dirt and grime. Detergents work best when applied at low pressure. Follow this with a high pressure rinse for best cleaning results. On vertical surfaces, apply the detergent starting at the bottom and work your way upward. This will prevent the detergent from sliding down and causing streaks. High pressure rinsing should also progress from the bottom upwards. On particularly tough stains it may be necessary to use a brush in combination with detergents and high pressure rinsing.

# OPERATING INSTRUCTIONS

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## Operation

The following cleaning procedure will help you organize your cleaning task and ensure that you achieve the most beneficial results in the shortest amount of time. Remember to use the spraying/cleaning techniques previously listed.

### 1. Surface preparation

It is important to prepare the surface that is to be cleaned. This is done by clearing the area of furniture and making sure that all windows and doors are closed tight. In addition, you should make sure that all plants and trees adjacent to the cleaning area are protected by a drop cloth. This will ensure that your plants won't be sprayed by the detergents.

### 2. Initial High Pressure Rinse

The next step is to spray the cleaning surface with water to clear off any dirt or grime that may have collected on the surface. This will allow your detergent to attack the deep down dirt that has worked its way into the cleaning surface.

Before triggering the gun, adjust the nozzle to a wide fan pattern and slowly adjust to the desired spray pattern. This will help you avoid applying too much concentrated spray to the surface which could cause damage.

## TIPS FOR EXTENDING THE LIFE OF YOUR PRESSURE WASHER

1. Never operate the unit without water.
2. This pressure washer is not designed to pump hot water. Never connect it to the hot water supply, this will significantly reduce the life of the pump.
3. Only use detergents specifically designed for pressure washers. Other types of detergent may cause internal damage to the unit, as might chemicals such as bleach, washing-up liquid, etc.
4. Never operate the unit for more than one (1) minute without spraying water. Otherwise, the resulting heat build up will damage the pump.

### Winter Storage:



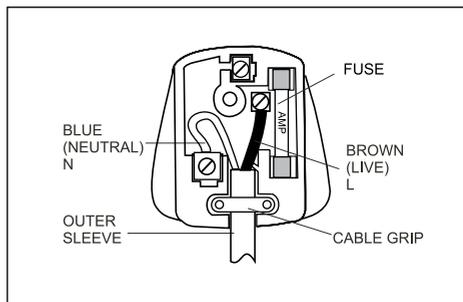
- a. For storage during the winter months we recommend the use of a solution of 50/50 mix of antifreeze and water. This will keep the pump from freezing and getting damaged and will protect the internal components.
- b. Method: You will need a length of garden hose and a funnel. Attach the garden hose to the inlet and pour the antifreeze into the unit via the funnel. Switch the unit on for a few seconds to allow the solution to flow through the system. Disconnect your pressure washer from the mains power, and then pack away in your storage area.

**WARNING:** Before reusing completely flush the unit out with clean water. Anti-freeze can damage paintwork so you must ensure there is no antifreeze left in the system before using it again.

## Plug Fitting

Note: The product is fitted with a standard UK mains outlet 3 pin plug. If a moulded plug is fitted and has to be removed take great care in disposing of the plug and severed cable, it must be destroyed to prevent engaging into a socket.

If the supply cord is damaged it must only be replaced by a qualified person. If you should need to fit a new plug follow the instructions below. If in doubt consult a qualified electrician.



## IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:

Blue - Neutral Brown - Live

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

The wire coloured BROWN must be connected to the terminal that is marked with the letter "L".

The wire coloured BLUE must be connected to the terminal that is marked with the letter "N".

This product is a class II product, therefore, no connection is to be made to the earth terminal which is marked "E" or 

If a 13 AMP (BS 1363/A) plug is used, a 13 AMP fuse must be fitted, or if any other type of plug is used a 13 Amp fuse must be fitted, either in the plug, or adaptor or on the distribution board.

## TROUBLE SHOOTING

<p><b>Pressure washer does not start</b></p> <ol style="list-style-type: none"> <li>1. No mains supply.</li> <li>2. Unit is pressurized.</li> </ol>	<ol style="list-style-type: none"> <li>1. Poor plug connection or faulty outlet socket .</li> <li>2. Squeeze trigger on gun to release pressure.</li> </ol>
<p><b>Pump does not reach necessary pressure</b></p> <ol style="list-style-type: none"> <li>1. Water inlet filter is clogged.</li> <li>2. Pump sucking air from hose connections.</li> </ol>	<ol style="list-style-type: none"> <li>1. Clean water inlet filter.</li> <li>2. Check that hoses and connections are tight.</li> </ol>
<p><b>Fluctuating pressure</b></p> <ol style="list-style-type: none"> <li>1. Pump sucking in air.</li> <li>2. Clogged nozzle.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check that hoses and connections are tight.</li> <li>2. Clear blockage with cleaning needle.</li> </ol>
<p><b>No detergent</b></p> <ol style="list-style-type: none"> <li>1. Vacuum in container.</li> <li>2. Detergent too thick.</li> </ol>	<ol style="list-style-type: none"> <li>1. Loosen the container, the tighten again.</li> <li>2. Water down the detergent and try again.</li> </ol>

## EC DECLARATION OF CONFORMITY

EQUIPMENT: 2000W Pressure washer  
MODEL NUMBER: RAC-HP221  
EU REPRESENTATIVE: Hilka Pro Imports  
ADDRESS: 1 Roebuck Place  
Roebuck Road  
Chessington  
Surrey. KT9 1EU.  
United Kingdom

The Technical documentation is kept by: - as above

This is to certify that the aforementioned equipment fully conforms to the protection requirements of the following EC Council Directives on the approximation of the laws of the member states relating to:

Applicable Directives:

2000/14/EC	Noise
89/336/EEC	EMC
13/23 / EEC	LVD
93/68 / EEC	MD

And in consideration of the following standards:

EN 60335 – 1: 2002+A1+A1+A11+A12+A2+A13  
EN 60335 - 2-79:2009  
EN 62233: 2008  
EN 55014 – 1: 2006+A1  
EN 55014 – 2: 1997+A1+A2  
IEC61000 – 3-: 2006+A1+A2  
IEC61000 – 3 – 11: 2000  
EN ISO3744

We declare that the above equipment conforms to the requirements of the Directive 2000/14/EC  
Sound power level:

Measured	77 dB (A)
Guaranteed	92 dB (A)

The Conformity assessment procedure followed was in according with annex V of Directive 2000/14/EC

This declaration ceases to be valid should there be any modifications or changes to the machine, outside the details in the Instruction Booklet, made by the user.

  
Signed:  
(Responsible person)

Position: **Director**

Name: **R.J. Satchell**

Date of issue: 2/11/2011

## SPARE PARTS

Spare parts may be obtained from our helpline or by checking out the website  
Telephone Number 02083 916 767 or e-mail [spares@hilka.co.uk](mailto:spares@hilka.co.uk)



Sound power level



To reduce the risk of injury, user must read and understand operator's manual before using this product and keep all bystanders at least 15m away.



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.

This symbol is known as the 'Crossed-out Wheelie Bin Symbol'. When a product is marked with this symbol, it means the product should not be disposed of with your general household waste. Only discard electrical/electronic products in a separate collection scheme which caters for the recovery and recycling of the materials contained within. You co-operation is vital to ensure the success of these schemes and for the protection of the environment.

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This product is guaranteed for domestic use only for a period of 12 months against faulty manufacture or materials. Any other use may invalidate the guarantee. This product is not guaranteed for **HIRE** purposes. This guarantee does not affect the statutory rights of the consumer.

If there is something about our product that you don't understand and you live in the UK, you can contact our helpline during office hours, 9am – 4pm, Monday-Friday.

**Calls are charged at standard rates.**

Outside of office hours or during peak times you will be directed to an answer phone.

Please leave your name, a brief description of your enquiry and your phone number.

One of our operators will attempt to contact you back as soon as possible.

**Helpline Telephone Number 02083 916 767**

Alternatively check the Q&A on our website [www.hilka.co.uk/faq.php](http://www.hilka.co.uk/faq.php)

### NOTE:

These important safeguards and instructions cannot cover all possible conditions and situations that may occur. It must be understood that common sense and caution are factors, which cannot be built into any product. These factors must be supplied by the person using this product.

Hilka Tools UK Ltd  
1, Roebuck place, Roebuck road, Chessington, Surrey. KT9 1EU