

RAC

Heavy Duty Pressure Washer Kit RAC-HP021

*If faults cannot be remedied, contact the **Helpline** on **020-83916767**
Helpline@hilka.co.uk*

GUARANTEE

This product is guaranteed for domestic use for a period of 12 months against faulty manufacture or materials.
This Guarantee does not affect the statutory rights of the consumer. If in the event of any problem occurring please
Contact our Helpline at the number above for advice. This product is not guaranteed for HIRE purpose.

Manufactured under licence by Hilka Pro Imports.

1 ROEBUCK PLACE, ROEBUCK ROAD, CHESSINGTON, SURREY KT9 1EU

Issue 1 R.W. - 12/2005



Safety Instruction

General Safety Rules

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 wear safety equipment during use. We recommend the product be used with a RCD (Residual Current Device).

Please Retain These Instructions For Future Use And Referral

- This unit must not be used by children or untrained personnel.
- 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 1300PSI. To avoid rupture and injury, do not operate this pump with components rated less than 1300PSI 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.

IMPORTANT: The pressure washer is equipped with an auto stop device. When the trigger is in the off position it will open the power circuit to the motor and cause the pressure washer motor to stop. Motor will resume again when 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 II product-double insulated. No means of grounding (to earth) is provided on this product nor should it be added. A qualified person should only carry out servicing.

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

Use only extension cords having an electrical rating not less than the rating of the product.

Use only extension cords that are intended for outdoor use.

To reduce the risk of electrocution, keep all connections dry and off the ground.

Do not touch plug with wet hands.

Hose: Water supply hose must be at least 1/ 2" in diameter with a minimum recommended length of 5 meters.

Components



Component List

- | | |
|--|---|
| 1. Detergent container | 7. High pressure hose |
| 2. Threaded connector for high-pressure hose | 8. Rotary brush |
| 3. On / Off switch | 9. Fixed washing brush |
| 4. Water supply inlet pre-fitted with quick fit connector (male) | 10. Turbo Lance |
| 5. Water supply hose with pre-fitted tap and quick fit connector(female) | 11. Adjustable Lance |
| 6. Trigger gun | 12. 5-meters Mains cable |
| | 13. 3 screws for fixing detergent container |
| | 14. Needle |

Technical specification

Rated voltage:	230-240V AC
Rated Power:	1800W
Rated Frequency:	50HZ
Protection Class:	II
Degree of protection:	IPX5
Permissible pressure:	140bar
Rated Pressure:	90bar
Inlet pressure:	1.5-6bar
Supply water temperature:	0-40°C
Nozzle spray angle:	0-90 degree
Max output flow rate:	6.0L/min

Assembly

NOTE:

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

Assembling your machine

1. Assembling the detergent tank:

- Connect the soft hoses to joint of detergent tank. (Dia 1)



- Assemble the detergent tank as in (Dia 2) and screw together using 3 off Item 13 in components diagram.



2. Assembling the high pressure hose:

- Connect the high-pressure hose to the outlet (Dia 3)

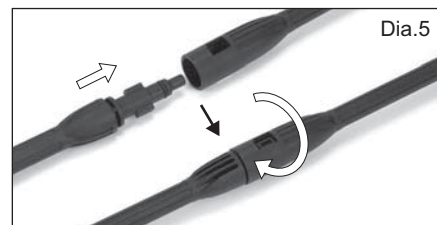


- Connect the high-pressure hose to trigger gun, use spanner to tighten the connection. (Note, always use two spanners to tighten the connection, but do not over tighten). (Dia 4)



3. Assembling the lance and trigger handle:

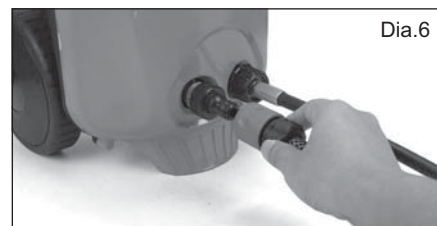
- Push the Lance into the trigger handle locating the lugs at the same time, then turn Clockwise to lock into position. (Dia 5)
(Note do not fit lance when power is on).



- Always remove or replace parts whilst the high pressure cleaner is switched off.

4. Connecting the water supply

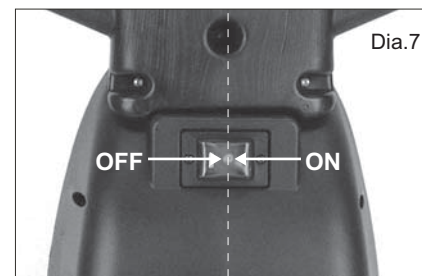
- Connect the female connector of your garden hose onto the male connector of your high pressure cleaner. (Dia 6).



Operating Instructions

Note:

Before connecting to mains supply please ensure that your pressure washer is switched OFF (Dia 7)
Then connect to mains supply and water supply.



Instructions for use

Fully open the tap on the water supply.
Before turning the unit on, press the gun trigger to bleed any trapped air out of the pump and hose. Start the pressure washer by turning ON/OFF switch to ON position, and press the trigger to spray water.

REMINDER: Motor does not run continuously, only when trigger is squeezed.

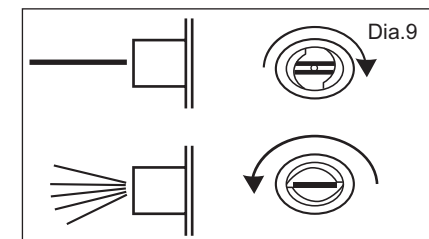
WARNING: When taking a break, engage gun safety lock (Dia 8) and switch off. If left too long the temperature of the water in the machine will increase quickly and could damage the pump.
Never operate your pressure washer without the water supply on.



Helpful Hints

Before starting any cleaning, remove any objects, which could create a hazard.
Ensure that all doors windows are closed (where appropriate).

The adjustable Lance allows you to use a variety of spray patterns from a fan to a pencil jet. 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 spray is adjustable from a pencil jet spray to fan spray by tuning the nozzle shown (Dia 9).

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

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 damage to surface being cleaned. Spraying directly head-on tends to cause dirt particles to embed in the surface. The turbo lance is a fixed nozzle, which effectively increases the area of the high pressure water jet, and decreases the time required to clean larger areas like patios. The turbo nozzle provides a circular water pattern as it sprays high-pressure water. The spray pattern on this nozzle is not adjustable. The circular spray action does heavy cleaning in less time.

Operating Instructions

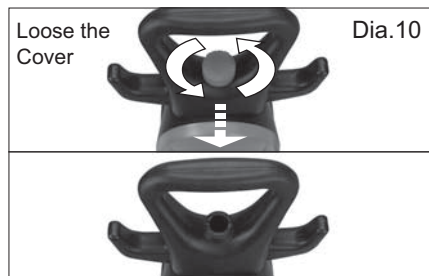
WARNING: If the area to be cleaned is a painted surface that is peeling or chipping, use extreme caution as the pressure washer may remove the loose paint from the surface. Take care when using the high-pressure setting as high-pressure can potentially damage finish or paintwork (e.g. car, van motorcycle etc...) It is not recommended to use the pressure washer inside the engine bay.

Use of Detergent

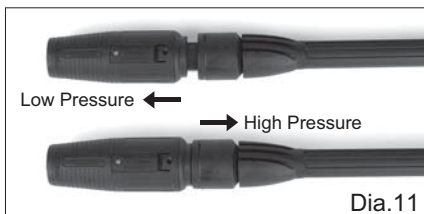
This pressure washer operates at two pressures. When applying detergent, you must be operating at low pressure. The high pressure is used for cleaning and rinsing.

Biodegradable detergents are specifically formulated to protect the environment and your pressure washer. These detergents will not clog the filter and will protect the internal parts of the pressure washer for a longer life.

- Open the cover on the detergent container by twisting it off. (Dia 10)



- Fill the detergent container with approved detergent. Replace the cover.
- To apply detergent to your working area, you can use the rotary brush/fixed brush, and the adjustable lance. When using the adjustable lance, pull the tip of the adjustable spray lance forward. (Dia 11)
Release the gun safety lock and pull the trigger to operate the unit and apply the detergent.
The pressure washer will mix the detergent with water. Do not add water to the detergent container and do not allow the detergent to dry on the object you are cleaning.



CAUTION: Make sure the gun safety lock (Dia 8) is engaged so the trigger cannot be squeezed while the tip of the adjustable spray is being converted to detergent dispensing mode.

WARNING: Never use products with bleach or chlorine or any other corrosive materials, including liquids containing solvents (i.e. Gas, oils etc), tri-sodiumphosphate products, ammonia, or acid-based cleaners. These chemicals will harm the unit and cause damage to the surface being cleaned. Always read the label.

Only fill detergent container whilst the unit is not running.

All the accessories are fitted by pushing firmly into the trigger gun and turning.

Rotary brush

If soap/detergent is required then add soap/detergent to the detergent container. Press the gun trigger and allow water to flow for a few minutes this will draw the soap to the rotary brush.

Fixed washing brush

If soap is required then add soap to the detergent container. Press the gun trigger and allow water to flow for a few minutes this will draw the soap to the brush.

Adjustable Lance

The spray pattern is adjusted by turning the front nozzle section.

Low pressure is achieved by pulling the front nozzle section forward.

Maximum pressure is achieved with the nozzle pushed in and the spray pattern turned to a needle point.

Turbo Lance

Soap dispensing is not available with this nozzle.

Maintenance and Trouble Shooting

Shutting down and cleaning up

Turn the switch to OFF position and disconnect from mains supply. Turn off the water supply. Press trigger to release the water pressure, and disconnect the garden hose from the water inlet on the unit. For storage before winter we recommend using antifreeze. Prepare the pressure washer for storage by running a 50/50 mix of water and anti-freeze into the unit, this will keep the internal parts lubricated, protect from rust, and prevents the pump from freezing. Connect a short piece of garden hose (2-3m long) to the water inlet fitting of the pump. Use a funnel to pour the anti-freeze solution down the hose. Start the machine and let it draw the solution through the pump. This can take up to 2 minutes. Shut the pressure washer down when the solution begins to spray from the pump outlet. Disconnect the high-pressure hose from the pump, disassemble the detergent nozzle, and rinse thoroughly. Store the unit and accessories in a room above 0° C. The machine is now ready for storage. Simply flush it out with clean water when you are ready to begin using it in spring.

WARNING: After the winter, ensure the complete system is washed out thoroughly before use. Anti-freeze will damage paintwork and therefore you must ensure that no antifreeze is left in the system before cleaning use. If you prefer, you can still protect your pressure washer from winter-damage by; disconnect all water connections. Turn on the machine for a few seconds, until the remaining water in the pump exits. Turn off immediately. Store the machine and accessories in a room that does not reach freezing temperatures.

Cleaning the nozzle

If the flow of water decreases, stops or fluctuates up & down the nozzle may need to be cleaned.

1. Make sure that the appliance is switched off and that the mains water tap has been closed.
2. Remove the lance from the trigger gun and carefully using the needle (component 12) to remove the dirt or trapped debris, Rinse through from the outside with clean water.

Maintenance

Your pressure washer requires no additional lubrication or maintenance. There are no user serviceable parts. Never use chemical cleaners to clean your unit. Wipe clean with a dry cloth. Always store your unit in a dry place. Keep the motor ventilation slots clean.

Note: We recommend that a branded detergent is used in your pressure washer. Please note that there are different detergents available for different tasks, such as one for cleaning cars, one for cleaning patios and drive ways etc...

Trouble Shooting

WARNING: Before making any repairs, switch off mains, turn off water supply and release the pressure. Disconnect the mains plug.

• No detergent flow

Possible causes: Detergent container empty; Detergent too thick; Nozzle blocked; High pressure nozzle position. Check all above and correct as necessary.

• Pressure of jet varies or switches on & off

Nozzle Blocked (refer to instructions on cleaning the nozzle).

• Machine does not start

ON/OFF switch is in the off position; Plug fuse has blown; Electric socket is faulty; Thermal cut-off was tripped; nozzle blocked.

Ensure unit is switched on, change fuse, try another socket or try without the extension lead, reset RCD (if used). If the pressure washer overheats the pressure washer will switch off automatically. If this happens switch off the pressure washer and let the motor cool down for 15 minutes before switching on again.

• Disposal and the Environment.

This product is covered by the Waste Electrical and Electronic Equipment (WEEE) regulations. It should not be discarded with normal household waste, but taken to your local collection centre for recycling. For further information, please contact the local authority or approved disposal agency.

Maintenance and Plug Fitting

• Pump does not reach the max pressure

Possible causes: Pump sucking air; Incorrect nozzle; Diameter of garden hose is too small; Water supply is restricted or supply is too low pressure.

Check all the above.

• The output pressure varies and is not constant

Possible Causes: Pump sucking air; Diameter of garden hose is too small; Water supply is restricted or supply is too low pressure, nozzle is damaged, or Blocked

Check all the above.

Note: clean dirt from nozzle (refer to nozzle cleaning instructions).

• The motor stops suddenly

Possible Causes: Thermal safety switch has tripped due to the overheating. If the pressure washer overheats the pressure washer will switch off automatically. If this happens switch off the pressure washer and let the motor cool down for 15 minutes before switching on again. One Common reason for overheating is low water inlet pressure. To check this you should be able to fill a 10 litre bucket in 1 minute.

• Pump is noisy

Possible Causes: Air intake damaged or blocked; Bearings are worn out; Supply water at extreme temperature .

Check all the above.

• Water leaking from the pump

Cause: Loose fitting; Missing/worn rubber washer.

Solution: Check and replace.

• Lance Trigger will not operate

Possible causes: Safety catch on.

Check and ensure safety catch is released.

Plug fitting

Note: 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 be replaced by a service agent or similarly qualified person in order to avoid hazard. Your pressure washer is supplied with a fitted plug, however if you should need to fit a new plug follow the instruction 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

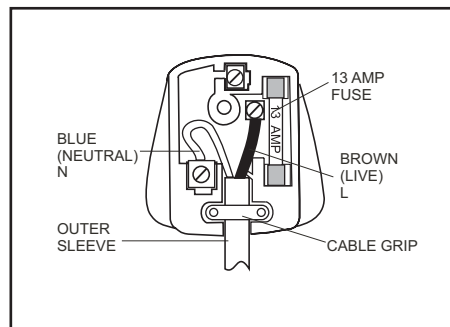
As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

No connection is to be made to the earth terminal of the plug.

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 13AMP Fuse must be fitted, either in the Plug or Adaptor, or on the Distribution Board.



EC DECLARATION OF CONFORMITY

EQUIPMENT: **1800W Pressure Washer**

MODEL NUMBER: **RAC-HP021**

EU REPRESENTATIVE: **Hilka Pro Imports**

ADDRESS: **1 Roebuck Place
Roebuck Road
Chessington
Surrey. KT9 1EU.
United Kingdom**

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
73/23/EEC	LVD
93/68/EEC	
98/37/EC	Machinery

And in consideration of the following standards:

EN 50366:2003
EN 55014-1:2000 / + A1:2001 + A2:2002
EN 55014-2:1997 / + A1:2001
EN 61000-3-2:2000
EN 61000-3-3:1995 / + A1:2001
EN 61000-3-11:2000
EN 60335-2-79:2004
EN 60335-1:2002 / + A11:2004 + A1:2004
EN ISO3744:1995

Conformity assessment procedure followed: **Annex C**

Sound power level:

Measured	88.6dB (A)
Guaranteed	98dB (A)

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

Signed: 
(Responsible person)

Position: **Director**

Name: **R.J. Satchell**

Date of issue: **Nov 15th, 2005**