

# CLARKE® POWER WASHER



## PETROL POWER WASHER

MODEL NO: PLS360

PART NO: 7330375

## OPERATION & MAINTENANCE

## INSTRUCTIONS

UK  
CA | CE



ORIGINAL INSTRUCTIONS

DL 0325 REV 4

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# INTRODUCTION

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Thank you for purchasing this CLARKE Petrol Power Washer.

Before attempting to use this product, please read this manual thoroughly and follow the instructions carefully. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to your purchase giving you long and satisfactory service.

## GUARANTEE

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

## UNPACKING

Unpack your power washer and check to ensure the following items are present. Contact your CLARKE dealer immediately if any parts are missing or damaged.

1 x Petrol Power Washer	1 x Hose/Lance Storage Bracket
1 x Delivery Hose c/w Fittings	1 x Spark Plug Box Spanner
1 x Suction Hose c/w Pump Fittings	1 x Tommy Bar
1 x Detergent Hose c/w Fittings	1 x Engine Manual
1 x Lance/Nozzle Assembly	1 x Gun Assembly
4 x Wheel Axles	1 x Pressure Washer Hose
4 x Wheel/Pneumatic Tyres	

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# GENERAL SAFETY RULES

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**WARNING: WATER AT HIGH PRESSURE CAN BE DANGEROUS AND CAN CAUSE DAMAGE TO PERSONS OR PROPERTY IF THE OPERATOR IS CARELESS. NEVER ALLOW ANYONE TO OPERATE THIS EQUIPMENT UNLESS THEY ARE THOROUGHLY RELIABLE, AND FAMILIAR WITH THE SAFETY PRECAUTIONS.**

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1. **DO NOT** point the spray at other people, animals, electrical equipment or the machine itself.
2. **DO NOT** hold your finger over the high pressure nozzle.
3. **DO NOT** let children or untrained personnel use this machine.
4. **DO NOT** operate the machine with any of the covers removed.
5. **DO NOT** try to repair this machine. Always refer to your CLARKE service department for all repairs.
6. **DO NOT** supply any liquid other than water to the water inlet.
7. **DO NOT** use the detergent pickup facility to introduce flammable liquids/solvents, e.g. paint thinners, petrol, oil as there is a risk of explosion.
8. **ALWAYS** release the remaining pressure in the system; turn off the water supply and operate the trigger before you remove hoses or accessories.
9. **ALWAYS** keep the machine dry and away from the water spray.
10. **ALWAYS** use protective clothing and safety glasses. Loose particles and other items can be propelled at high speed by the water spray.
11. **ALWAYS** hold the gun securely & expect it to 'kick' when you pull the trigger.
12. **ALWAYS** respect the requirements of the local water company. Pressure washers may only be connected to the mains water supply if a system separator (also known as a backflow preventer) is installed in the supply hose.
13. **ALWAYS** disconnect from the water supply, and make sure that you drain the system when not in use. Keep in a cool dry location.
14. **ONLY** use detergents that are suitable for pressure washers, we recommend that you use CLARKE Traffic Film Remover or CLARKE Wash and Wax (available from your dealer).
15. **WARNING** High pressure water jets can be dangerous, the jet must not be directed at a person or anything that they are wearing.
16. **WARNING** High pressure hoses, fittings and couplings are important for the safety of the machine. Use only hoses, fittings and couplings recommended by the manufacturer.
17. **WARNING** Water that passes through a system separator (also known as a backflow preventer) is not safe to drink.
18. **DO NOT** use the pressure washer if there is damage to the inlet/outlet hose or the machine.

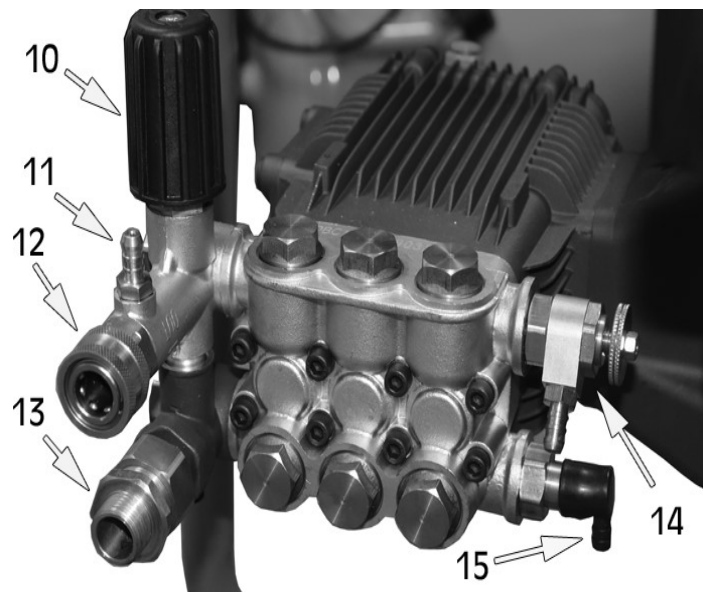
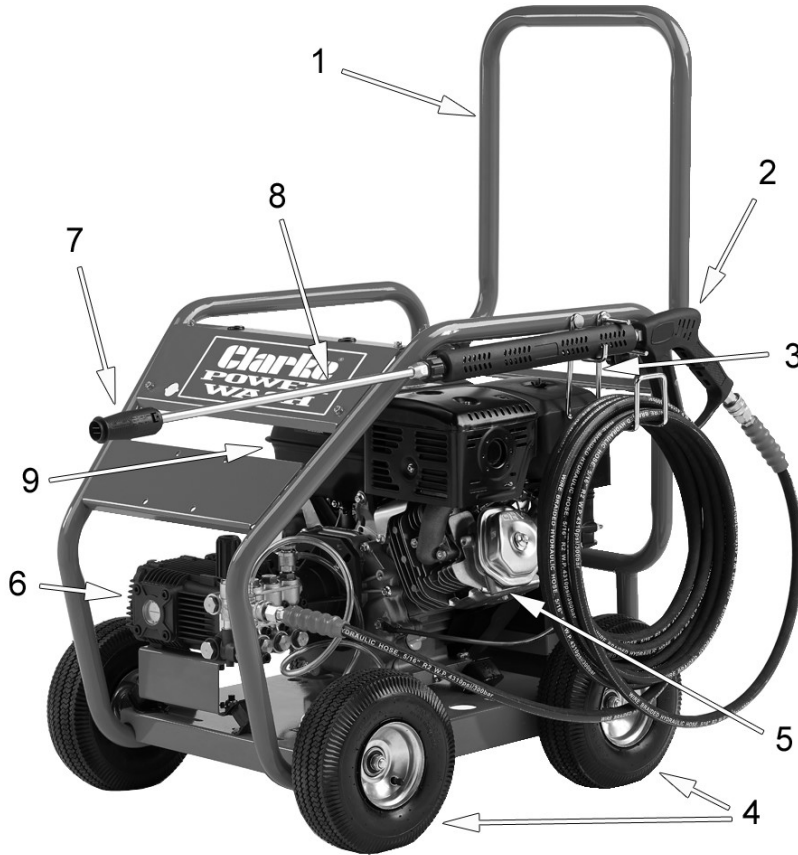
# SAFETY SYMBOLS

	<b>ALWAYS:</b> Read this manual and make sure that all warnings and instructions are clear before you use this pressure washer.
	<b>DANGER:</b> Risk of fire or explosion. Stop the engine before you refuel the pressure washer. Keep flammable materials away from the work area. Do not spray flammable liquids.
	<b>DANGER:</b> Risk to breathing. Engine exhaust fumes can kill. For outdoor use only. Work in a well ventilated area.
	<b>WARNING:</b> Risk of injection or severe injury. <b>DO NOT</b> directly discharge stream at persons or animals. Keep clear of nozzle. This machine should only be used by qualified operators.
	<b>WARNING:</b> Risk of spray injury. Spray can propel objects. Always wear ANSI approved Z87.1 Safety Glasses.
	<b>WARNING:</b> Risk of chemical burn. <b>NEVER</b> spray acids, corrosive or toxic chemicals. Use only cleaners formulated for power washers.
	<b>WARNING:</b> Risk of electrocution. <b>NEVER</b> direct the spray toward any electrical device or electrical outlet.
	<b>WARNING:</b> Risk of unsafe operation. Keep children away from this equipment. Gun kicks back. Hold with both hands.
	<b>WARNING:</b> Risk of hot surfaces. Avoid contact with hot engine exhaust components. Don't allow hoses to contact the engine muffler during or after use.

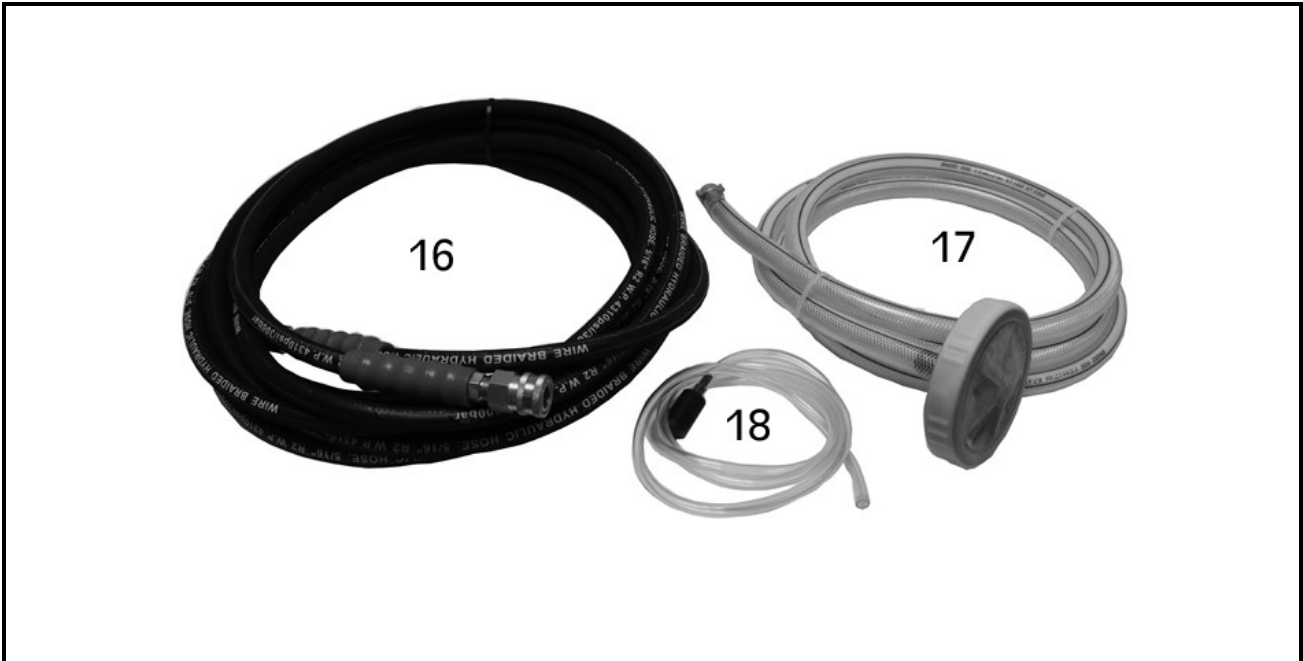
# PRODUCT SPECIFICATIONS

<b>Model Number</b>	<b>PLS360</b>
Part Number	7330375
Engine Model & Type	G390FD, Petrol Air Cooled
Engine Power & Capacity	13HP, 8.2kW, 3600rpm, 389cc
Starting System	Key/Electric
Fuel Capacity (Maximum)	6.5 Litre
Emissions (CO,HC, NOx, HC+NOx, CO2)	426.08, 4.88, 1.63, 6.51, 728.44 (g/kWh)
Max. Permissible Pressure	248bar / 3597psi
Working Pressure (From Mains Supply)	228bar / 3306psi
Working Pressure (From Barrel)	220bar / 3190psi
Water Inlet Pressure Range	3 - 6bar / 43 - 87psi
Max. Flow Rate (From Mains Supply)	17L/min / 1020L/hr
Working Flow Rate (From Mains Supply)	17L/min / 1020L/hr
Max. Flow Rate (From Barrel)	15.56L/min / 933.6L/hr
Working Flow Rate (From Barrel)	15.3L/min / 918L/hr
Water Type	Clean Cold Water
Ambient Operating Temperature	25°C (77°F)
Input Water Temperature	1°C (34°F) - 30°C (86°F)
Water Supply Hose Diameter	Suitable Snap Connector - 1/2" or 3/4" Hose
Water Supply Suction Depth	Less Than 1m
Detergent Hose Length	1.5m
High Pressure Hose Length	10m
Sound Pressure Level (L <sub>PA</sub> )	84.89db
Sound Power level (L <sub>WA</sub> )	99.25dB
Guaranteed sound power level (L <sub>WA</sub> )	100dB
Sound Uncertainty Factor K	1.3dB
Vibration (Main Handle)	Less than 1.833m/s <sup>2</sup>
Uncertainty Factor	1.5m/s <sup>2</sup>
Max. Dimensions (L x W x H)	920mm x 1095mm x 695mm
Weight	66.6kg

# OVERVIEW



# OVERVIEW



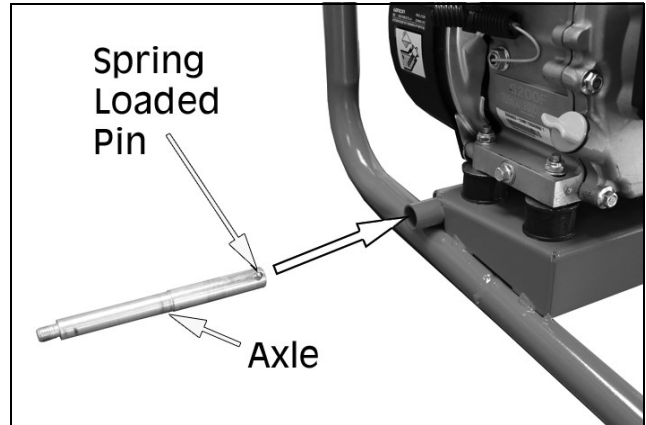
NO	DESCRIPTION	NO	DESCRIPTION
1	Foldable Handle	10	Pressure Regulator
2	Gun	11	Chemical Detergent Inlet
3	Wand/Lance & Hose Bracket	12	Water Outlet
4	Wheels	13	Water Inlet
5	Engine	14	Suction Valve
6	Pump	15	Thermal Relief Valve
7	Adjustable Nozzle	16	10m High Pressure Hose
8	Spray Wand/Lance	17	Water Inlet Hose with Filter
9	Petrol Tank	18	Detergent Hose

# ASSEMBLY

## FITTING THE WHEELS

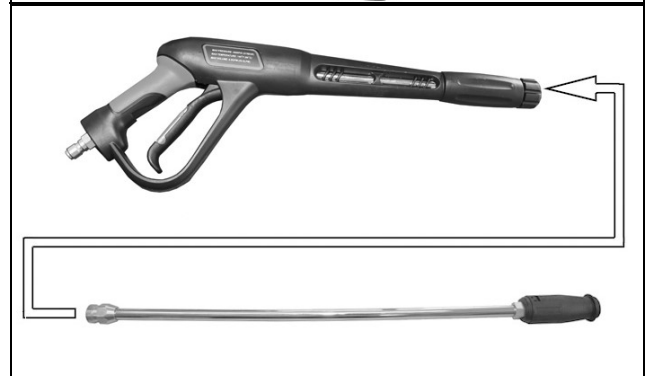
1. Insert the axle as shown.
  - Rotate the axle so that the spring loaded pin pops through the hole on the frame.
2. Fit the wheels to the axles and secure with the locking nuts supplied.

**NOTE: DO NOT** overtighten the nuts, the wheels must be able to rotate freely.



## ASSEMBLE THE LANCE

1. Connect the spray wand to the lance and tighten securely.



## FOLDING HANDLE

1. Lift the handle into the raised open position.
2. Secure in place using the handle locking knobs shown.



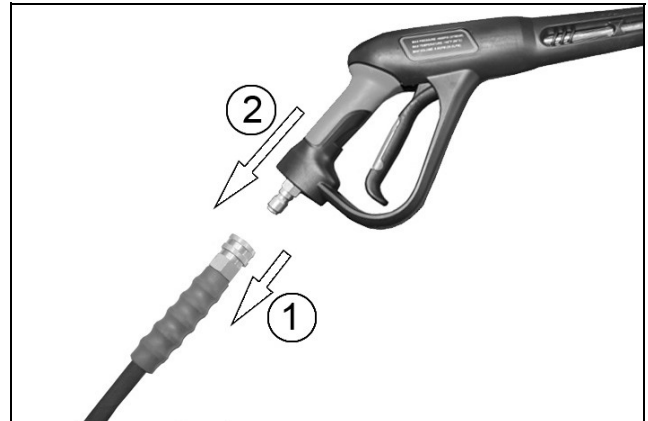


## THE HIGH PRESSURE HOSE

### CONNECT THE HOSE TO THE GUN

1. Slide the connector on the hose backwards.
2. Push the gun into the connector.
3. Release the connector.

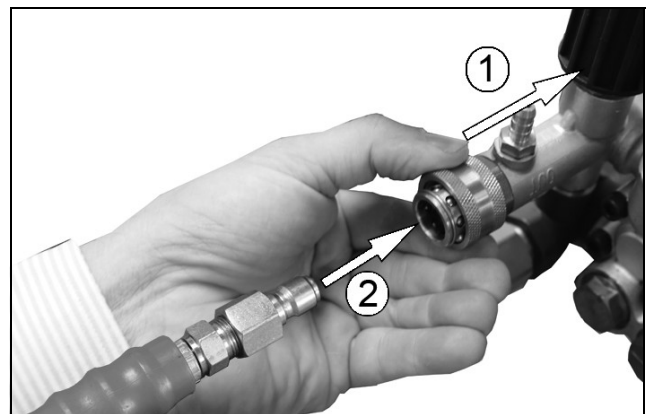
**NOTE:** Make sure the connection is secure.



### CONNECT THE HOSE TO THE POWER WASHER

1. Slide the connector on the power washer towards the machine.
2. Push the hose into the connector.
3. Release the connector.

**NOTE:** Make sure the connection is secure.

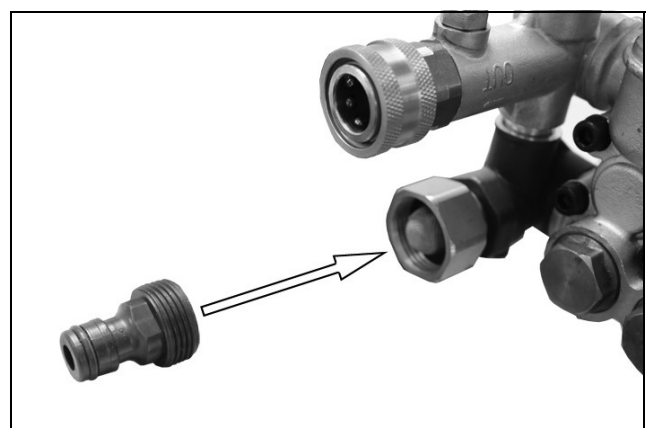


### CONNECT WATER INLET HOSE

1. Remove the travel cap if fitted.
2. Fit the hose adaptor as shown.
3. Connect the water supply hose to the hose adaptor.

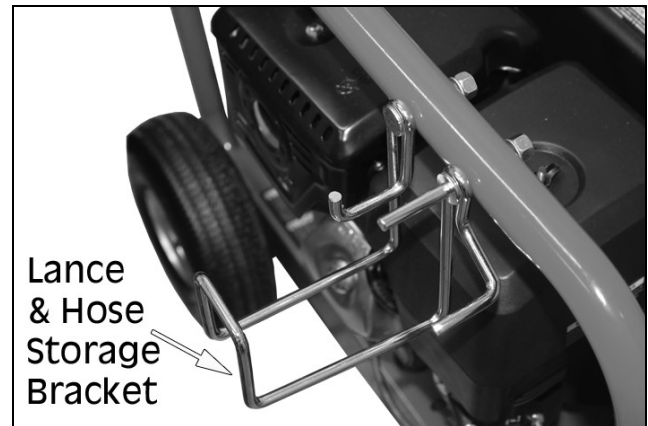
**NOTE:** The water source must provide a minimum of 17 litres per minute @ 20 PSI.

**NOTE:** Make sure the water inlet hose is screwed on tightly.



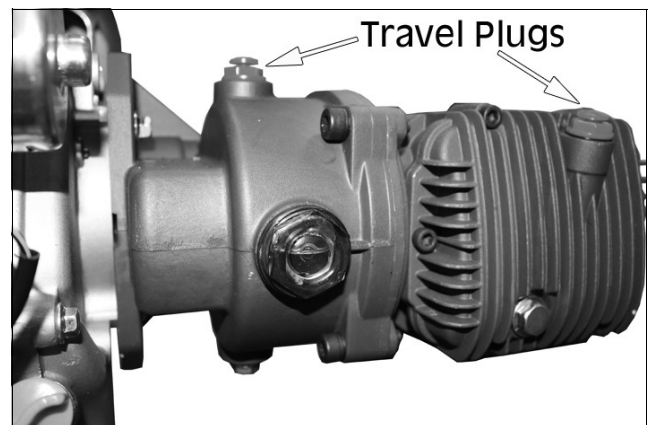
## LANCE & HOSE STORAGE BRACKET

1. Fit the bracket into the position shown and secure using the washers and nuts supplied.



## REMOVE THE TRAVEL PLUGS BEFORE USE.

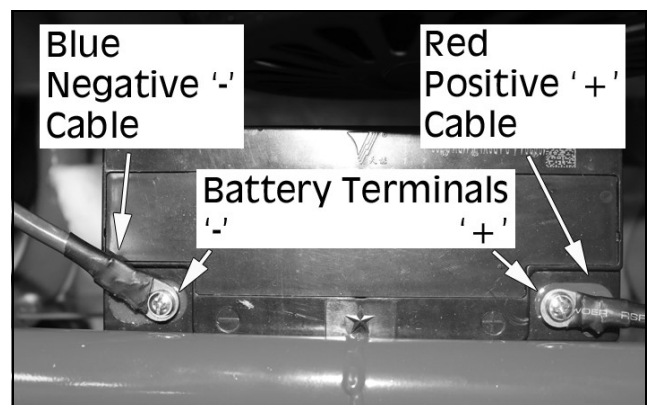
1. Use a 17mm spanner to remove the red travel plugs.
2. Inside the small bag attached are oil breather plugs which need to be fitted in its place.
  - The oil breather plug must only be inserted finger tight.



## CONNECTING THE BATTERY

**NOTE:** The power washer comes with the battery disconnected. The battery is mounted on the rear of the frame in its own chassis

1. Unscrew the blue negative '-' terminal and attach the blue negative cable, reconnect and tighten the terminal.
2. Unscrew the red positive '+' terminal and attach the red positive cable, reconnect and tighten the terminal.



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## BEFORE USE

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**WARNING: TO CARRY OUT THIS CHECK, PLACE THE POWER WASHER ON LEVEL GROUND WITH THE ENGINE SWITCHED OFF.**

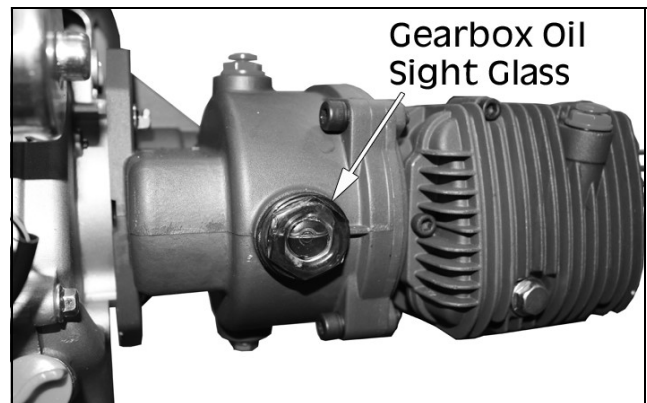
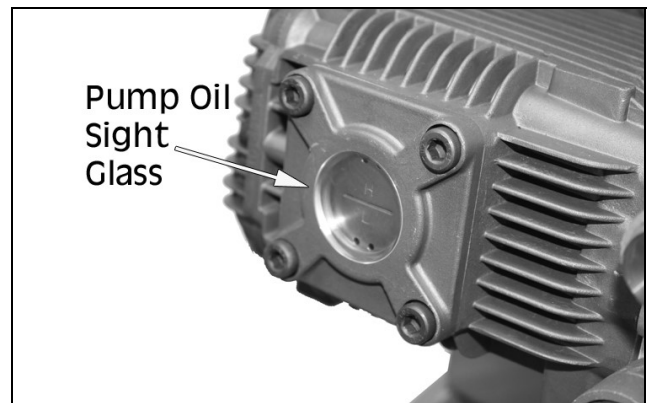
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**IMPORTANT:** *The engine is supplied without any oil in it and must be filled to the correct level before use, see below.*

**NOTE:** All oil levels should be checked when the engine is cold, as you may get a false reading with a hot engine.

### CHECKING THE PUMP & GEARBOX OIL LEVEL

1. Look at the sight glass on the pump and gearbox to check the oil levels inside.
  - The oil should be half way up the sight glass.
  
2. If required, top up with oil.
  - We recommend the use of SAE10W/30 oil.

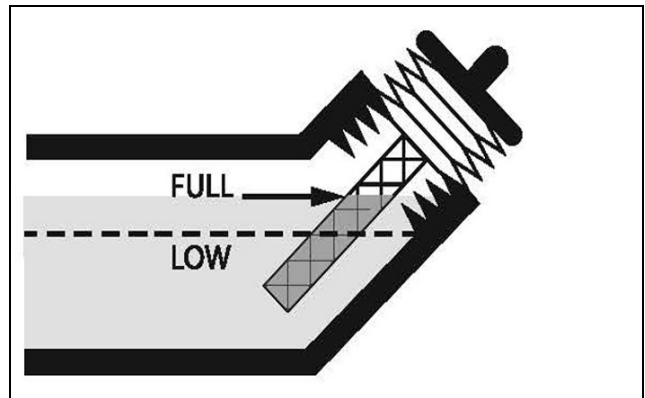
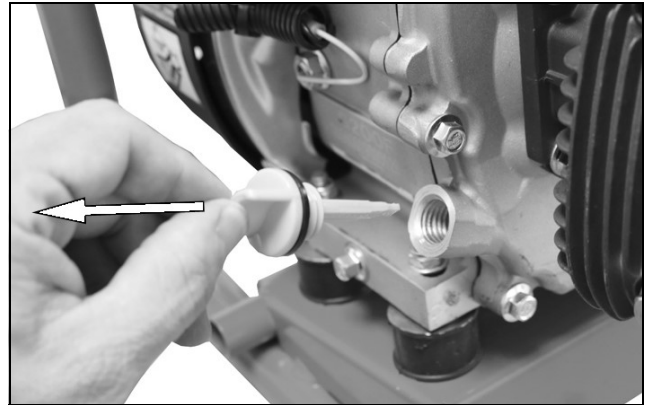


## CHECKING THE ENGINE OIL LEVEL



**WARNING:** RUNNING THE ENGINE WITH INSUFFICIENT OIL WILL CAUSE ENGINE DAMAGE.

1. Turn the oil filler cap/dipstick anti-clockwise and remove it from the oil filler tube.
2. Wipe the oil filler cap/dipstick with a clean cloth.
3. Insert the oil filler cap/dipstick back into the oil filler tube and then remove it again. Do not screw it in when doing this.
4. If the oil is low, fill the oil reservoir to the edge of the oil filler hole.
  - We recommend the use of SAE10W/30 oil in the engine.
5. Replace the oil filler cap.



## CHECKING THE FUEL LEVEL



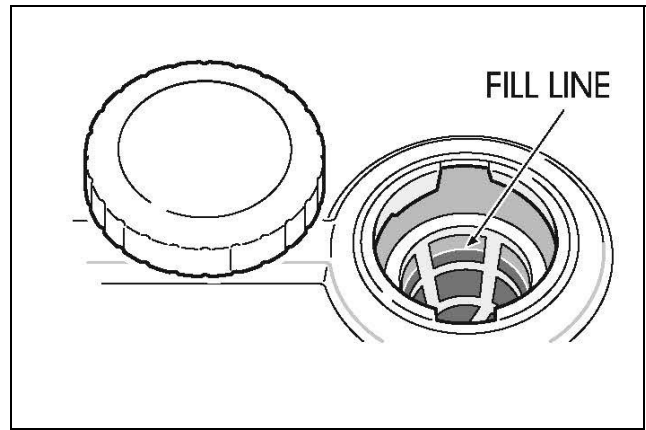
**WARNING:** ALWAYS REFUEL IN A WELL VENTILATED AREA AWAY FROM ANY SOURCES OF IGNITION AND HEAT.

**WARNING:** ALLOW THE UNIT TO COOL DOWN BEFORE REFUELLING.

**WARNING:** DO NOT LEAVE FUEL WITHIN THE REACH OF CHILDREN.

1. To check the fuel level, remove the fuel tank cap.
2. Just inside the fuel tank is a fuel strainer. Check this filter periodically and remove any contaminants which may have accumulated.

3. Refuel in a well-ventilated area before starting the engine. If the engine has been running, allow it to cool. Refuel carefully to avoid spilling fuel. Do not fill above the fuel strainer shoulder.
4. After refueling, replace the fuel filler cap securely.



### RECOMMENDED FUEL

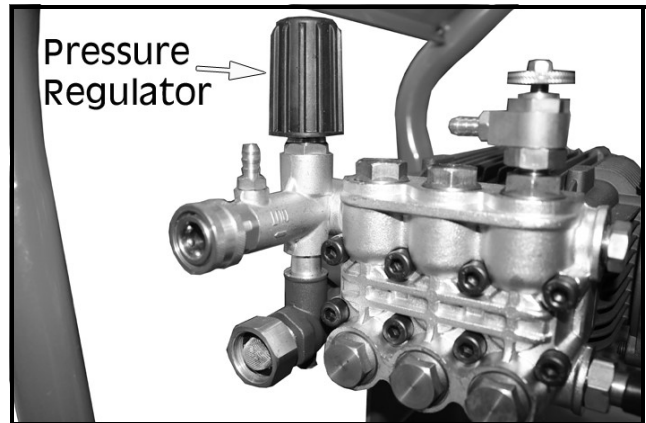
Use unleaded petrol with an octane rating of 86 or higher. Do not overfill.

### PRESSURE REGULATOR

When purchased, the pressure regulator may be set to minimum.

Turn the pressure regulator on the pump fully clockwise to allow water pressure to increase when the pressure washer is running.

If you find the pressure is too high, you can adjust this later by turning the regulator anti-clockwise.



## SAFETY FEATURES

**Bypass mode:** In bypass mode, the pump recirculates the water because the trigger of the spray gun is not being pulled. If the unit is left in bypass mode for more than two minutes, the water temperature will rise to a dangerous level and could damage internal components of the pump.

**NOTE:** Any damage to the pump due to these causes will not be covered under warranty.

**Thermal Relief Valve:** In an effort to prevent damage, pumps are equipped with a thermal relief valve. This valve will open when the temperature inside the pump becomes too high. The valve will then release a gush of water in an effort to lower the temperature inside the pump. Immediately after this occurs, the valve will close.



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# STARTING YOUR POWER WASHER

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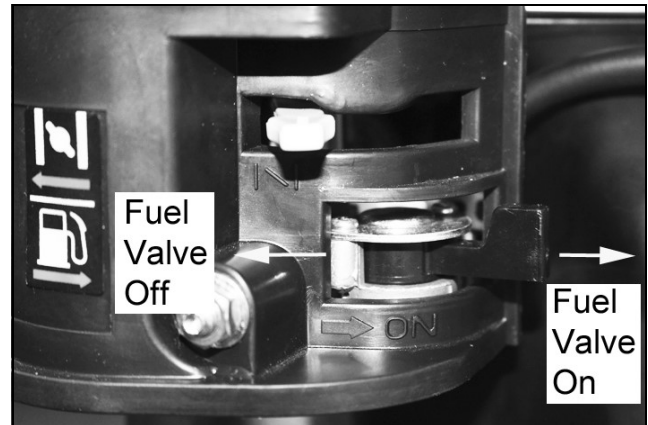


**WARNING: FAILURE TO TURN ON THE WATER COULD CAUSE DAMAGE TO THE PUMP.**

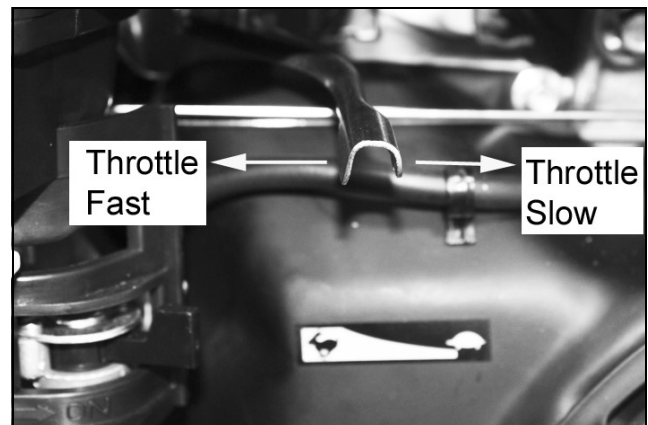
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Prior to starting, refer to your engine manual for proper starting procedures for your engine type.

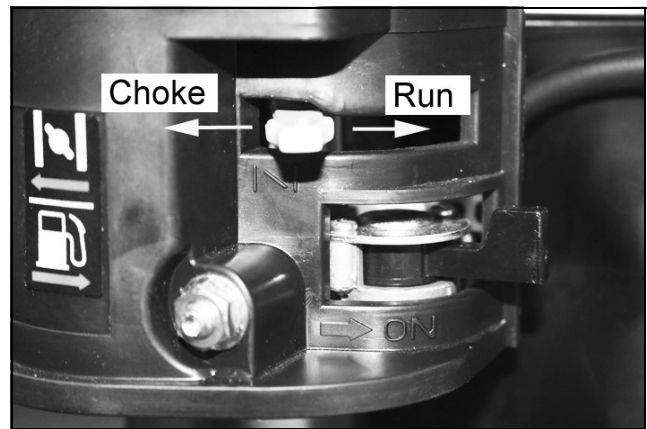
1. Make sure the engine has sufficient fuel. See page 12.
2. Check the engine oil level. See page 11-12.
3. Connect the high pressure hose and water inlet hoses. See page 9
4. Turn water supply on.
5. Set the fuel valve lever to the 'ON' position.



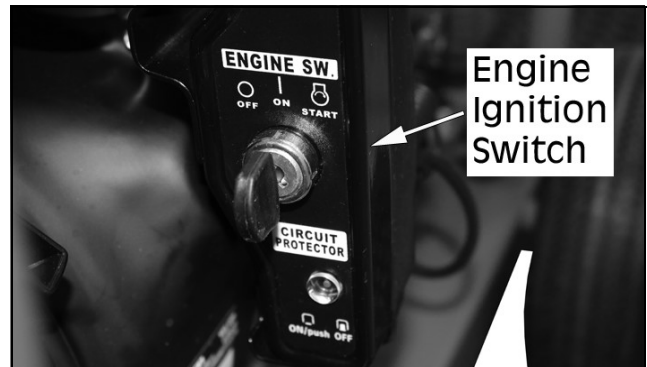
6. Set the throttle to the 1/3rd of the way towards the fast setting.



7. If you are starting the power washer 'cold' set the choke lever to the CHOKE position (left). If the power washer is warm then set the lever to the 'RUN' position.

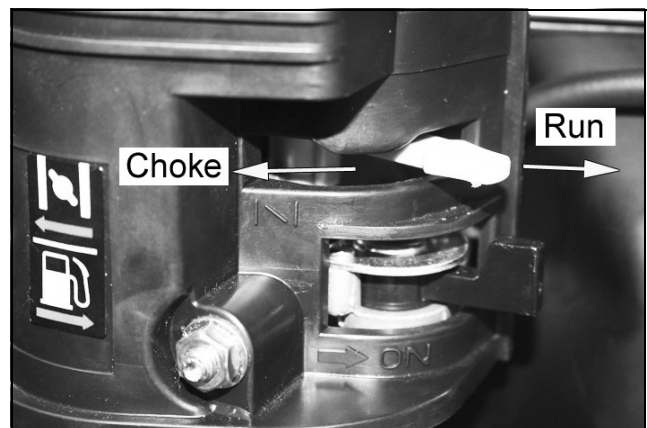


8. Turn the ignition key to the 'ON' position, then turn the key to the 'START' position and hold it there until the engine starts. If the engine fails to start within 5 seconds, then release the key and wait at least 10 seconds before operating the starter again.



9. When the engine starts, slowly move the choke lever to 'RUN' position, as engine warms.

**NOTE:** If the engine starts to falter, move choke lever to 'CHOKE' position, then slowly back to 'RUN' position.



**NOTE:** Using the electric starter for more than 5 seconds at a time will overheat the starter motor and can damage it.

**NOTE:** Allow the engine to run at no load, low pressure for 5 minutes after each start-up so the engine can stabilize.

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## USING THE POWER WASHER

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1. Pull the trigger on the gun to start water flow.
  - Stand on a stable surface and grip the gun/spray wand firmly with both hands.
  - Expect the gun to kick when the trigger is pulled.
2. Release the trigger to stop water flow.

**NOTE:** The power washer will automatically go into bypass mode. In bypass mode, the pump recirculates the water because the trigger of the spray gun is not being pulled. If the unit is left in bypass mode for more than two minutes, the water temperature will rise to a dangerous level and could damage internal components of the pump.



**WARNING: DO NOT ALLOW THE UNIT TO OPERATE IN BYPASS MODE FOR MORE THAN TWO MINUTES AT ANY TIME.**

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## ADJUSTING THE SPRAY

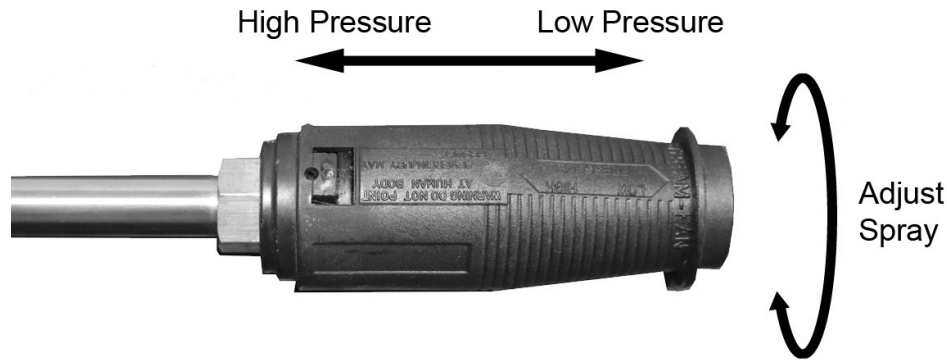
The nozzle is adjustable to allow you to change the spray from a narrow jet of water to a wide spray.

To adjust the nozzle, proceed as follows.

1. Hold the shaft of the spray wand in one hand.
2. Twist the nozzle with the other hand.
3. To vary the spray between narrow and wide, turn the nozzle counter-clockwise through a half-of-a-turn.



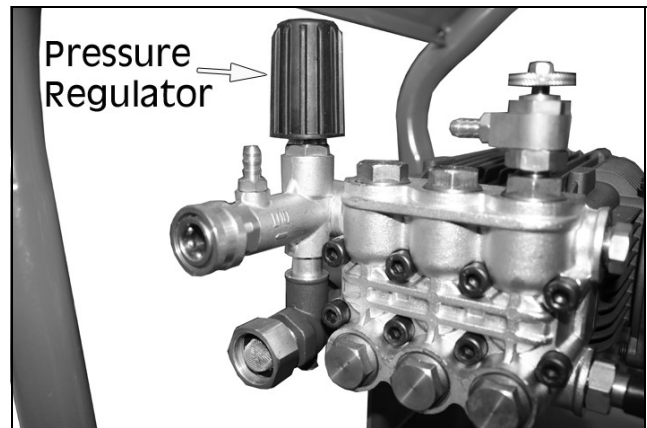
- Slide the nozzle forward for low pressure and backwards for high pressure.



## ADJUSTING THE PRESSURE

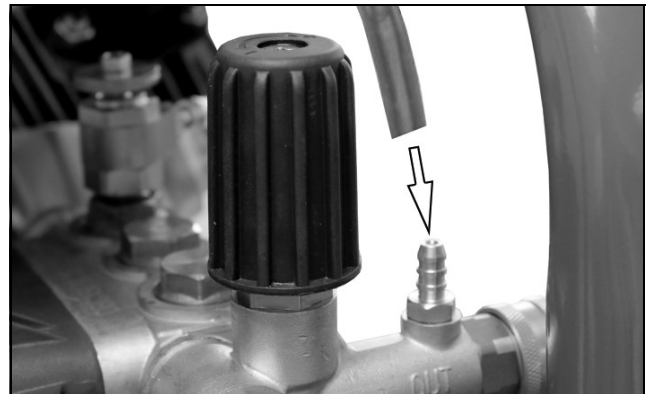
There are 4 ways to adjust the pressure.

1. Adjust the pressure regulator on the pump. Turn the pressure regulator knob counter clockwise to lower pressure. Once you have finished using your power washer, return the pressure regulator to its original position.
2. Back away from the surface to be cleaned. The further away you are, the less the pressure will be on the surface being cleaned.
3. Reduce the speed of the engine (RPM). Slow the engine down and the water pressure will also go down.
4. Adjust the spray to a wider angle.
  - Slide the nozzle forward for low pressure and backwards for high pressure.



## APPLYING DETERGENTS AND CLEANING SOLVENTS

1. Push the detergent hose onto the ribbed fitting as shown.
2. Place the other end of the detergent hose with the filter on it, into a container holding the chemical/cleaning solution.
3. Slide the nozzle forward for low pressure operation.



**NOTE:** See page 30 for detergent and cleaning products available from your CLARKE dealer.

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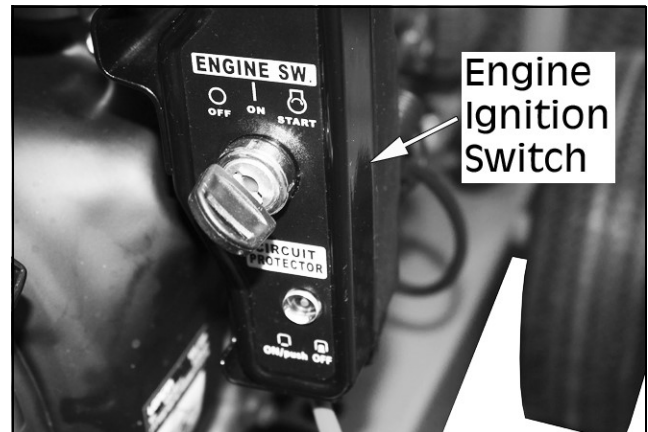
## SHUTTING DOWN

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1. After each use, if you have applied detergents, place the detergent hose into a container of clean water and run clean water through the detergent injection system to flush the system thoroughly.

**NOTE:** Failure to do so could cause damage to the pump.

2. Method 1: Turn the ignition switch to 'OFF', then close the fuel valve.
3. Method 2: Close the fuel valve and wait for the engine to stop.
4. Turn the water supply off.
5. Pull the trigger on the spray gun to release any water pressure.
6. See storage section in this manual for proper storage procedures.

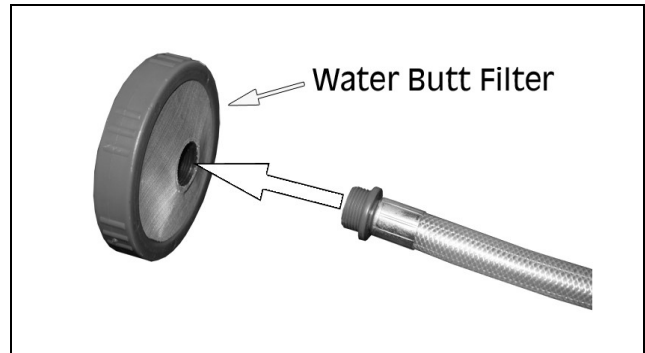


**NOTE: NEVER** turn the water off with the engine running.

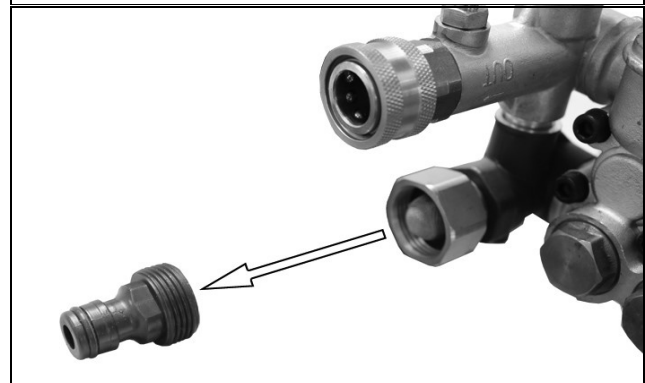
# WATER BUTT CONNECTION

This machine has the ability to draw its own water, meaning you can use water not under pressure, such as rainwater collected in a water butt. To do this you must carry out the following procedure.

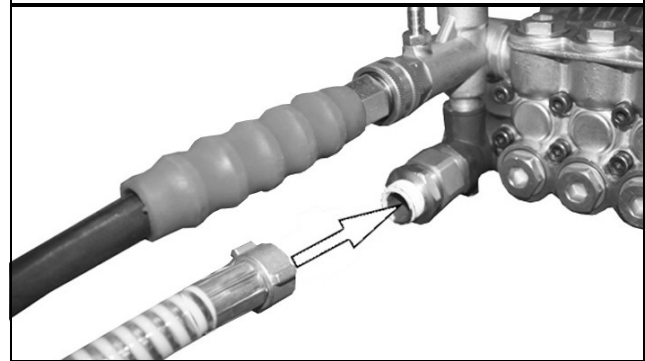
1. Attach the filter to the end of the pipe supplied.
2. Place the filter into the water butt.



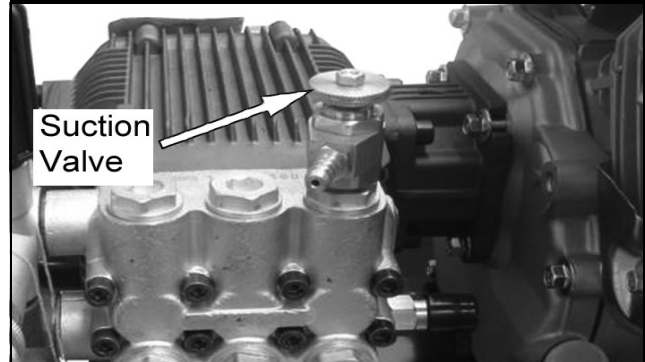
3. Remove the hose adaptor and replace it with the inlet connector supplied.



4. Connect the pick-up pipe to the pressure washer as shown.
  - Tighten securely



5. Twist open the suction valve shown.
6. Start the power washer. See Starting your Power Washer on page 13.
  - Water is ejected from the nozzle.
7. When the water spray being ejected is consistent and at high pressure, close the suction valve.
8. Use the pressure washer as normal.



**NOTE: DO NOT** let the pressure washer run dry.

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# MAINTENANCE

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## CHANGING THE PUMP OIL

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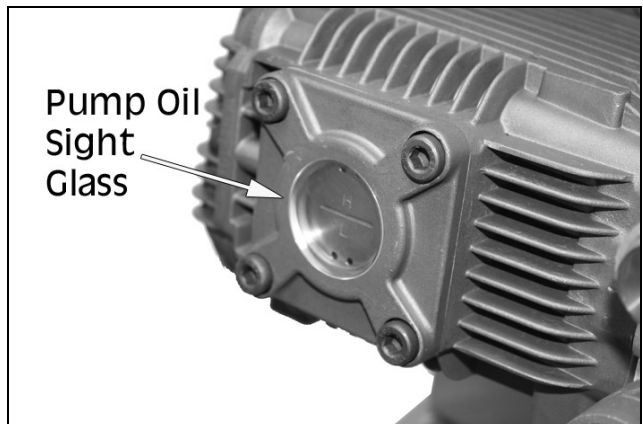
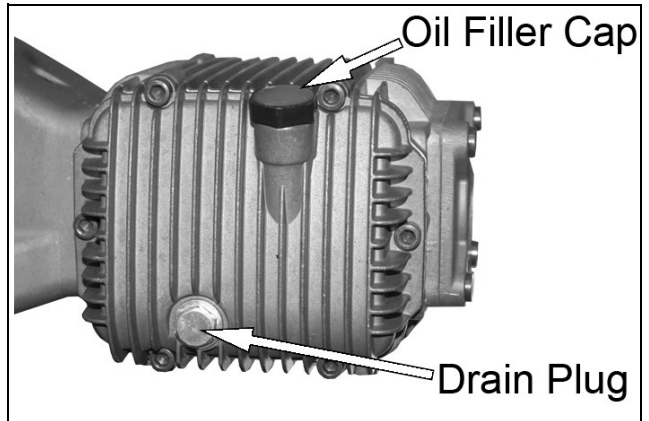


CAUTION: PROLONGED EXPOSURE TO USED OIL IS DANGEROUS, ALWAYS WASH YOUR HANDS THOROUGHLY AFTER HANDLING USED OIL.

1. Unscrew and remove the oil filler cap.
2. Place an oil collection tray (not supplied) under the drain plug.
3. Unscrew the drain plug, and allow the used oil to drain from the crankcase into the oil collection tray.

**NOTE:** Drain the oil when the engine is warm, this will ensure the oil flows out quicker.

4. Replace the drain plug and its ring seal.
5. With the power washer in a level position, fill to the centre of the sight-glass with the recommended oil.
6. Replace the oil filler cap.



## ENVIRONMENTAL PROTECTION

One of the most damaging sources of pollution is oil. **DO NOT** throw away used oil with your domestic rubbish or down drains and sinks. Place it in a leak proof container and take it to you local waste disposal site.

## CLEANING THE NOZZLE

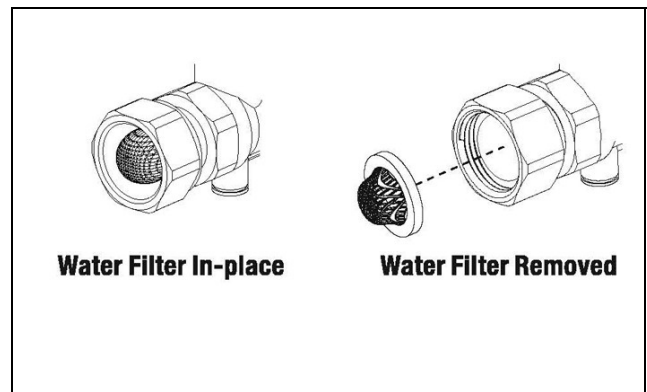
If the nozzle becomes partially clogged or restricted by dirt or other foreign material, excess pump pressure may develop. Clean the nozzle immediately by following the instructions below.

1. Shut off the power washer and turn off the water supply.
2. Pull the trigger on the gun handle to relieve any water pressure.
3. Disconnect the lance from the gun.
4. Remove any obstructions and back flush with clean water.
5. Direct the water supply into the spray wand end for 30 seconds to back flush loosened particles.
6. Reconnect the spray wand to the gun and turn on the water supply.

## CLEANING THE WATER INLET

The water filter should be checked regularly and cleaned if necessary.

1. Remove any fittings to the water inlet.
2. Remove the water filter from the water inlet.
3. Clean the filter by flushing it with water on both sides
4. Replace the water filter.



## CHANGING THE SPARK PLUG



**CAUTION: ALLOW THE ENGINE TO COOL BEFORE REMOVING THE SPARK PLUG.**

1. Remove the spark plug cap from the spark plug.
2. Use the supplied spark plug spanner to remove the spark plug.
3. Remove any carbon that has accumulated around the spark plug.
4. Check the spark plug gap, it should be between 0.7 and 0.8 mm. Adjust if necessary.
5. Check the overall condition of the spark plug and replace if necessary.
6. Reinstall the spark plug and replace the spark plug cap.

## CHECKING THE AIR FILTER



**CAUTION: DO NOT USE THE GENERATOR WITHOUT THE AIR FILTER FITTED, THIS CAN DAMAGE THE ENGINE.**

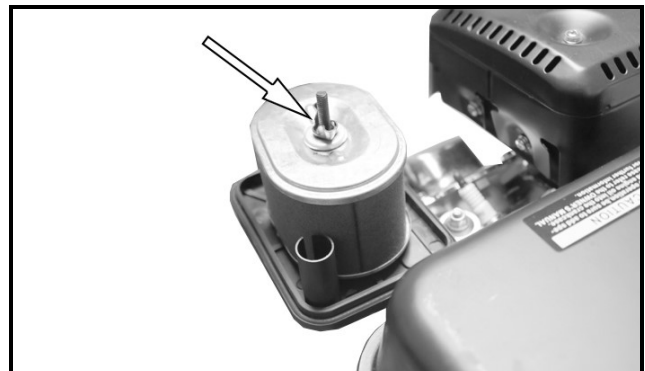


**WARNING: DO NOT USE FLAMMABLE SOLVENTS OR PETROL TO CLEAN THE AIR FILTER.**

1. Remove the wingnut and remove the air filter cover.



2. Remove the second wingnut shown.



3. Make sure that the air filter is clean and not damaged.

- If the air filter is damaged contact CLARKE spare parts department for a replacement.
- If the filter is dirty, wash it in a solution of warm water and mild detergent and rinse thoroughly.

Leave the filter to dry completely; before immersing the filter in clean engine oil and squeeze the filter to remove excess oil.

4. Replace the filter and the air filter cover.



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# STORAGE

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## ENGINE

See the separate engine manual supplied, for information regarding the storage procedure.

## PUMP

1. Drain all water from the high pressure hose, coil it and store it on the hose holder, located on the rear of the power washer.
2. Drain all water from the spray gun and spray wand by holding the gun/wand vertically with the nozzle pointing down, and pulling the trigger. Store in the gun holder on the side of the power washer.
3. Store all other parts so that they are protected from damage.
4. Protect the power washer from freezing conditions to prevent damage to the hoses, valves and pump.

## STORAGE PROCEDURE

For long term storage, the petrol tank should be drained. Ensure that the engine is cold before draining the tank. Remove the fuel tank cap and use a pump type syphon to drain the petrol into an appropriate, clean container.

Dispose of excess petrol in an environmentally safe way. Your local recycling centre can advise you on the best method of disposal. After the petrol tank has been drained, start the engine and allow it to use any petrol that may remain in the engine or fuel pipe. Make sure that the power washer has been thoroughly cleaned before storing it in a clean dry place.

# TROUBLESHOOTING

If the following does not solve your problem, please contact the CLARKE service department.

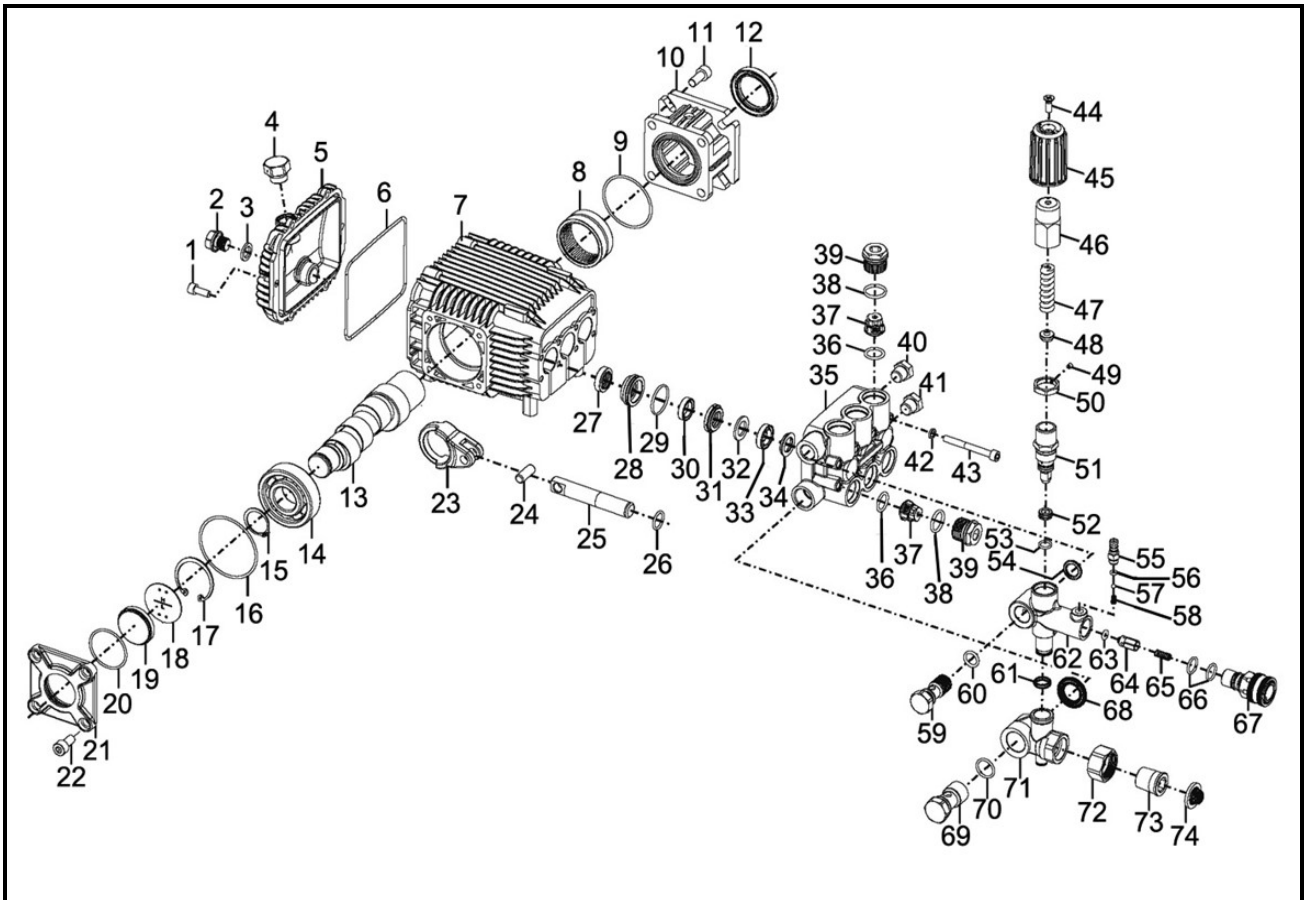
PROBLEM	CAUSE	SOLUTION
Engine will not start, see engine manual for further engine troubleshooting	No fuel	Add fuel (See Page 12)
	Low oil	Add oil (See Page 12-13)
	Pressure builds up after two pulls on the recoil starter or after initial use	Squeeze the gun trigger to relieve the pressure
	Spark plug wire not attached correctly	Attach the spark plug wire
	Engine switch is in the OFF position	Set the engine switch to the ON position
	Choke lever is set to the choke position when the engine is warm	Set the choke lever to the RUN position (See Pages 14)
	Fuel valve closed	Open the fuel valve
Lack of pressure (initial use) continued	Throttle control lever is not in the fast position	Move the throttle control lever to the fast position
	Choke lever is in the CHOKE position	Move the choke lever to the RUN position (See Pages 14)
	High pressure hose is too long	Make sure the high pressure hose is under 100 feet
No or low pressure (after a period of normal use)	Worn seal	Have it replaced by your dealer
	Worn or obstructed valves	Have it replaced by your dealer
	Worn unloader piston	Have it replaced by your dealer
	Worn E-Z start valve	Have it replaced by your dealer



<b>PROBLEM</b>	<b>CAUSE</b>	<b>SOLUTION</b>
Lack of pressure (initial use)	Water supply is not adequate	Make sure your water supply can deliver 25 litres per minute at 20psi
	Leak in the high pressure hose fitting	Tighten the fitting, use sealant tape if required
	Nozzle is obstructed	Clear the nozzle (See Page 21)
	Water filter screen is clogged	Remove and clean the water filter (See Page 21)
	Air in the supply hose	Turn off the engine Turn off the water supply, Disconnect the water supply from the pump inlet and turn on the water to expel the air from the hose. When all the air has been removed, turn off the water supply and reconnect the hose. Turn on the water supply and pull the trigger to expel any air in the gun/wand
Power washer will not draw detergents	Chemical filter is blocked	Remove and clean the water filter (See Page 21)
	Chemicals being used are too thick	Dilute the chemicals (The chemicals should have the consistency of water)
	High pressure hose is too long.	Use a longer supply hose instead of a longer high pressure hose
	Chemical build up inside the chemical injector	Have the parts cleaned or replaced by your dealer
Water leaking at the gun / spray wand connection	Worn or broken O-ring	Have it replaced by your dealer
	Loose hose connection	Tighten
Water leaking at the pump	Loose connections	Tighten
	Piston packings worn	Have it replaced by your dealer
	Worn or broken O-ring	Have it replaced by your dealer
	Pump head or tubes damaged from freezing	Have it replaced by your dealer.

<b>PROBLEM</b>	<b>CAUSE</b>	<b>SOLUTION</b>
Oil leaking at the pump	Oil seals worn	Have it replaced by your dealer
	Loose drain plug	Tighten
	Worn O-rings	Have it replaced by your dealer
Pump pulsates	Nozzle obstructed	Clear the nozzle (See Page 21)

# EXPLODED DIAGRAM - PUMP



## PARTS LIST- PUMP

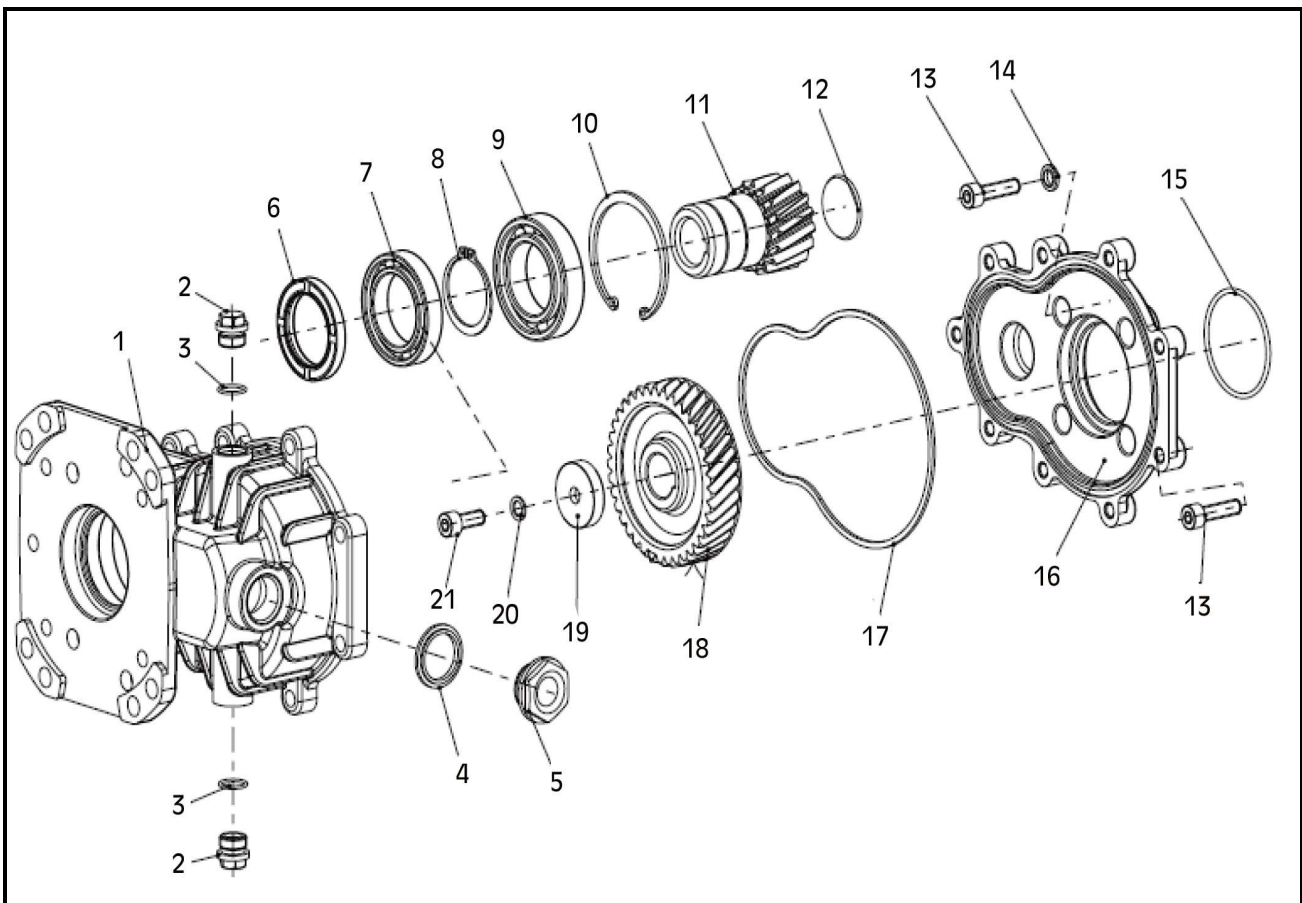
1	Bolt, (Crankcase Cover) M6 x16
2	Oil Drain Plug
3	O-Ring, Oil Drain Plug 14.2 x 1.9
4	Vented Oil Cap
5	Crankcase Cover
6	Gasket, (Crankcase Cover), 103 x 83 x 2.65
7	Crankcase
8	Needle Bearing
9	O-Ring, Flange 51.8 x 2.2
10	Flange
11	Bolt, (Flange) 51.8 x 2.2
12	Oil Seal, (Flange)
13	Crankshaft

14	Ball Bearing
15	Scrap Ring
16	O-Ring, (Crankshaft Cover) 55.25 x 2.62
17	Retain Ring
18	Oil Level Plate
19	Oil Sight Glass
20	O-Ring, (Oil Sight Glass) 38 x 1.8
21	Crankshaft Cover
22	Bolt, (Crankshaft Cover) M8 x 16
23	Connecting Rod
24	Pin
25	Ceramic Coated Plunger
26	O-Ring,15

27	Oil Seal, Plunger
28	Location Ring
29	O-Ring, (Locating Ring) 26.7 x 1.78
30	Low Pressure Water Seal
31	Compression Ring
32	Compression Flake
33	High Pressure Water Seal
34	Supporting Ring
35	Manifold
36	O-Ring, (Checking Valve) 15.54 x 2.62
37	Checking Valve Assembly
38	O-Ring, Valve Cap 18 x 2.4
39	Checking Valve Cap
40	Outlet Plug, Manifold
41	Inlet Plug, Manifold & Thermal Relief Valve
42	Washer, (Manifold)
43	Bolt, (Manifold) M6 x 55
44	Screw, (Knob Cap) M6 x 10
45	Plastic Knob Cap
46	Pressure Adjusting Knob
47	Pressure Adjusting Spring
48	Spring Seat
49	Screw, Jam Nut
50	Pressure Jam Nut
51	Unloader Valve Assembly

52	Valve Seat
53	O-Ring, (Valve Seat)9.25 x 1.78
54	Gasket, (Unloader Valve Housing) 18 x 2.4
55	Detergent Injector Fitting
56	O-Ring, Injector Fitting 4.47 x 1.78
57	Ball, (Injector Fitting)
58	Spring, (Injector Fitting)
59	Water Outlet Banjo Bolt
60	O-Ring, (Outlet Banjo Bolt) 12.2 x 2.4
61	O-Ring, (Unloader Valve Housing) 11.3 x 2.4
62	Unloader Valve Housing
63	O-Ring, (Outlet Checking Valve) 4.2 x 2.4
64	Outlet Checking Valve
65	Spring, Outlet Checking Valve
66	O-Ring, Outlet Fitting 14 x 1.9
67	Quick Disconnect Outlet Fitting
68	Gasket, Bypass Housing
69	Water Inlet Banjo Bolt
70	O-Ring, (Inlet Banjo Bolt)16.3 x 2.4
71	Bypass Housing
72	Swivel Nut, (Inlet Connector)
73	Body, (Inlet Connector)
74	Filter Washer, (Inlet Connector)

## EXPLODED DIAGRAM - GEARBOX

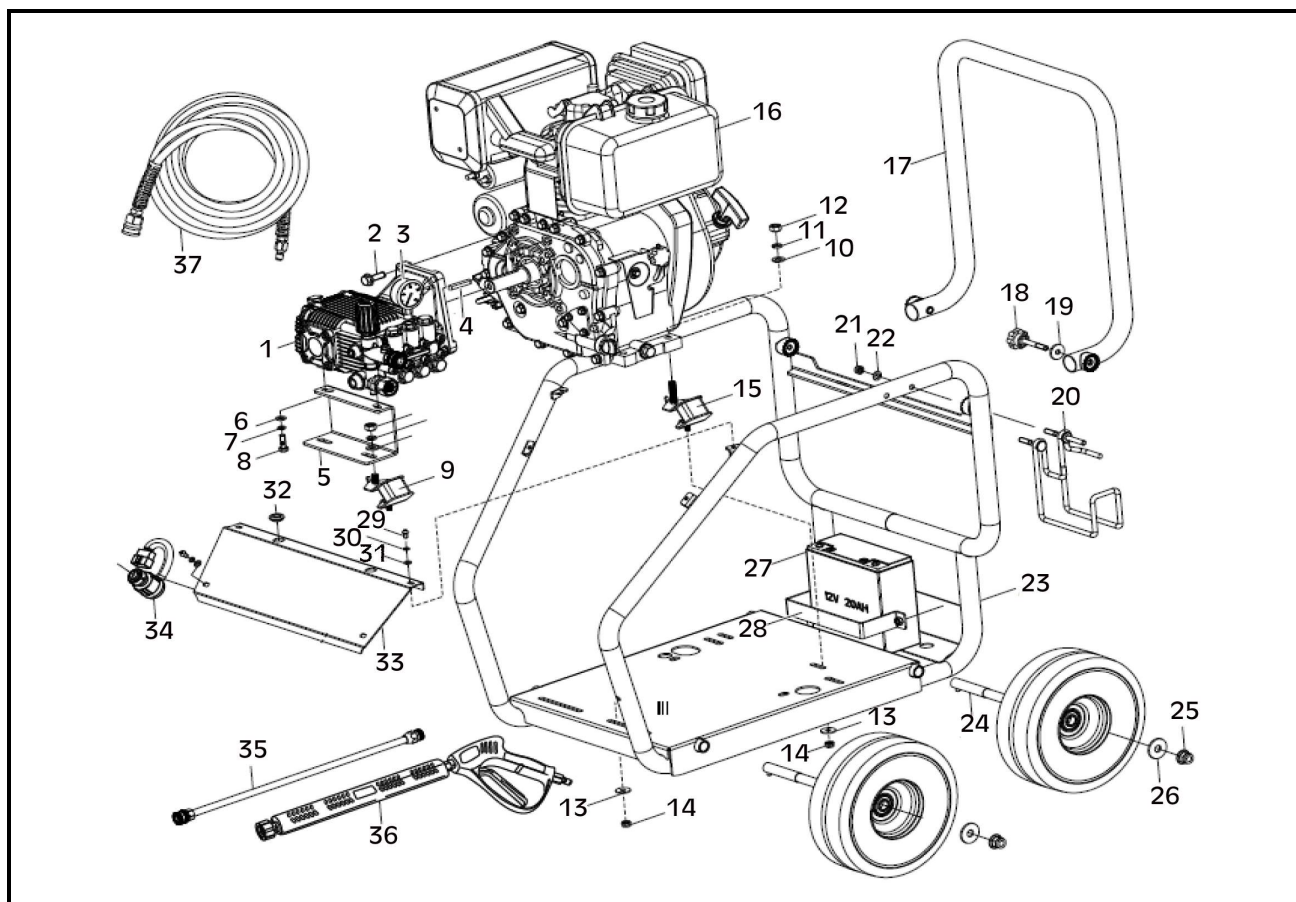


## PARTS LIST- GEARBOX

1	Gearbox Case
2	Oil Plug
3	O Ring 14.2 x 1.9
4	Gasket, Oil Gauge
5	Sight Gauge
6	Oil Seal
7	Ball Bearing 61908
8	Snap Ring D40
9	Ball Bearing 6008
10	Snap Ring D68
11	Engine Gear

12	Blocking Flake
13	Bolt M8 x 30
14	Combine Washer
15	O Ring 55.25 x 2.62
16	Gearbox Cover
17	Gasket Cover
18	Pump Gear
19	Ring
20	Washer D8
21	Bolt M8 x 20

## EXPLODED DIAGRAM - FRAME



## PARTS LIST- FRAME

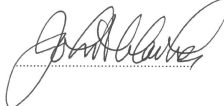
1	Pump
2	Bolt
3	Pressure Gauge
4	Key
5	Anti Vibration Holder
6	Plain Washer
7	Spring Washer
8	Bolt
9	Rubber Feet (Pump)
10	Plain Washer
11	Spring Washer
12	Screw Nut
13	Plain Washer
14	Screw Nut
15	Rubber Feet (Engine)

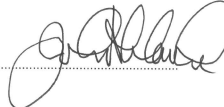
16	Engine
17	Handle
18	Handwheel Bolt
19	Plain Washer
20	Hose & Lance Storage Bracket
21	Screw Nut
22	Plain Washer
23	Frame Body
24	Axle
25	Wheel Fix Lock Nut
26	Plain Washer
27	Battery
28	Case
29	Bolt
30	Spring Washer

31	Plain Washer
32	Grommet
33	Frame Faceplate
34	Key Start

35	Lance
36	Gun
37	High Pressure Hose

# DECLARATION OF CONFORMITY

<b>UK CA</b>	<b>Clarke<sup>®</sup> INTERNATIONAL</b>
<b>DECLARATION OF CONFORMITY</b>	
This is an important document and should be retained.	
<p><b>We hereby declare that this product(s) complies with the following legislation:</b></p> <p><i>Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001</i>  <i>The Electromagnetic Compatibility Regulations 2016</i>  <i>The Supply of Machinery (Safety) Regulations 2008</i>  <i>The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012</i>  <i>The Batteries and Accumulators (Placing on the Market) Regulations 2008</i></p>	
<p><b>The following standards have been applied to the product(s):</b></p> <p><i>IEC 62321-4:2013+AMD1:2017, EN 1679-1:1998+A1:2011, EN 55012:2007+A1:2009, EN 60335-2-79:2012, IEC 62321-7-1:2015, IEC 62321-7-2:2017, EN ISO 12100:2010, EN ISO 3744:2010, IEC 62321-5:2013, IEC 62321-6:2015, IEC 62321-8:2017</i></p>	
<p>The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned legislation has been compiled and is available for inspection by the relevant enforcement authorities.</p> <p style="text-align: center;"><b>The UKCA mark was first applied in: 2023</b></p>	
<p><b>Manufacturer:</b> Clarke International Ltd, Hemnall Street, Epping, Essex, CM16 4LG, United Kingdom</p> <p><b>Product Description:</b> Pressure Washer</p> <p><b>Model Number(s):</b> PLS360</p> <p><b>Serial/Batch Number:</b> Refer to product/packaging label</p> <p><b>Document Holder:</b> Alan Pond</p> <p><b>Date of Issue:</b> 20/12/2023</p>	<p><b>Notified Body:</b> N/A</p> <p><b>Assessment Procedure:</b> Annex V of above noise legislation</p> <p><b>Measured LWA:</b> 99.52 dB</p> <p><b>Guaranteed LWA:</b> 100 dB</p> <p><b>Signed:</b>  <b>J.A Clarke</b> Director</p>
PLS360 UKCA Clarke DOC 122023	Page 1 of 1

<b>CE</b>	<b>Clarke<sup>®</sup> INTERNATIONAL</b>
<b>DECLARATION OF CONFORMITY</b>	
This is an important document and should be retained.	
<p><b>We hereby declare that this product(s) complies with the following legislation:</b></p> <p><i>2000/14/EC Outdoor Noise Directive</i>  <i>2014/30/EU Electromagnetic Compatibility Directive</i>  <i>2006/42/EC Machinery Directive</i>  <i>2011/65/EU Restriction of Hazardous Substances (RoHS) Directive</i>  <i>2023/1542 Battery Regulation</i></p>	
<p><b>The following standards have been applied to the product(s):</b></p> <p><i>IEC 62321-4:2013+AMD1:2017, EN 1679-1:1998+A1:2011, EN 55012:2007+A1:2009, EN 60335-2-79:2012, IEC 62321-7-1:2015, IEC 62321-7-2:2017, EN ISO 12100:2010, EN ISO 3744:2010, IEC 62321-5:2013, IEC 62321-6:2015, IEC 62321-8:2017</i></p>	
<p>The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned legislation has been compiled and is available for inspection by the relevant enforcement authorities.</p> <p style="text-align: center;"><b>The CE mark was first applied in: 2020</b></p>	
<p><b>Manufacturer:</b> Clarke International Ltd, Fitzwilliam Hall, Fitzwilliam Place, Dublin 2, Republic of Ireland</p> <p><b>Product Description:</b> Pressure Washer</p> <p><b>Model Number(s):</b> PLS360</p> <p><b>Serial/Batch Number:</b> Refer to product/packaging label</p> <p><b>Document Holder:</b> Alan Pond</p> <p><b>Date of Issue:</b> 20/12/2023</p>	<p><b>Notified Body:</b> N/A</p> <p><b>Assessment Procedure:</b> Annex V of above noise legislation</p> <p><b>Measured LWA:</b> 99.52 dB</p> <p><b>Guaranteed LWA:</b> 100 dB</p> <p><b>Signed:</b>  <b>J.A Clarke</b> Director</p>
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