

## **ENGINE DRIVEN SEMI TRASH 3" PUMP** MODEL NO: PS75A

PART NO: 7230162

## **OPERATION & MAINTENANCE INSTRUCTIONS** ĽK C€

**ORIGINAL INSTRUCTIONS** 

DL1223 - ISS 3

## INTRODUCTION

Thank you for choosing this CLARKE Pump.

The function of this pump is to move clean /dirty water (with solids in suspension upto 15 mm in diameter).

DO NOT use it to pump:

- Sewage
- Dangerous liquids.
- Salt water.

Before you use this pump, read the manual fully.

## GUARANTEE

This pump 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 pump has been abused, tampered with, or not used for its primary function.

Faulty goods must be returned to their place of purchase, no pump can be returned to us without prior permission.

This guarantee does not effect your statutory rights.

## INVENTORY

You should find the items in the list below in the carton.

1 x Petrol Powered 3" Water Pump	1 x Tommy Bar
1 x Spark Plug Box Wrench	2 x Rubber Sealing Rings
2 x 3" BSP Hose adaptors	2 x 3" BSP Locking Rings
1 Plastic x Inlet Strainer (in two pieces) with 3" Hose adaptor	3 x Hose Clips

Speak to your CLARKE dealer If items are missing or damaged.

## **GENERAL SAFETY RULES**



#### WARNING: WHEN USING PUMPS, ALWAYS FOLLOW BASIC SAFETY PRECAUTIONS TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK AND PERSONAL INJURY. READ ALL INSTRUCTIONS BEFORE YOU OPERATE THIS PUMP AND SAVE THEM FOR FUTURE REFERENCE.

- 1. ALWAYS obey all safety precautions for the handling of fuel.
- 2. **ALWAYS** make sure that you are familiar with this pump, and follow all instructions in this manual.
- 3. **ALWAYS** make sure that the pump is positioned correctly to prevent it from moving during operation.
- 4. Keep the area adjacent to the pump clear.
- 5. **ALWAYS** connect the strainer to the suction hose to stop stones and other solids from being pulled into the pump. These can cause damage to the pump.
- 6. **ALWAYS** keep the pump dry and clear of discharge hose.
- 7. Only use parts supplied by the manufacturer. Using non-standard parts can be dangerous.
- 8. **ALWAYS** use at least 300mm of flexible hose to make plumbing connections to the pump. Rigid piping can put stress on the pump, causing damage. If you use rigid piping, it must be supported to eliminate stress on the connections.
- 9. **DO NOT** refuel the engine while it is operating and let the engine cool sufficiently before refuelling.
- 10. **DO NOT** use to pump petrol (or other flammable liquids), or corrosive chemicals. The function of this pump is to pump **WATER ONLY**.
- 11. **DO NOT** operate this pump in an explosive atmosphere, near combustible materials, or where there is insufficient ventilation.
- 12. **DO NOT** let children use this pump.
- 13. DO NOT run the pump dry. Always fill the pump with water before starting.
- 14. **DO NOT** direct the discharge flow towards another person.
- 15. **DO NOT** over-tighten drain or filler plugs. Excessive force can damage the threads or the pump body.
- 16. DO NOT direct the water discharge towards electrical wiring or equipment.

### GENERAL SAFETY IN THE WORKPLACE

- 1. **ALWAYS** keep work area clean & tidy. Cluttered work areas invite accidents.
- 2. **NEVER** over-reach. Keep proper footing and balance at all times.
- 3. **ALWAYS** make sure that the workplace is well lit. Make sure that that lighting is placed so that you will not be working in your own shadow.
- 4. Dress correctly. Loose clothing or jewellery can get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.
- 5. ALWAYS wear safety glasses. (Everyday glasses are not safety glasses).

### CARE OF PUMPS

- 1. The CLARKE service department must replace damaged components.
- 2. **ALWAYS** examine the pump for damage that can effect the operation of the pump. Repair any damaged parts.
- 3. Have your pump repaired by a qualified person. Repairs must only be carried out by qualified persons using original spare parts.

Keep the instructions for future reference.

### SAFETY SYMBOLS

The meanings of the markings and symbols on the pump are shown below

	Read this manual before use and keep it for future reference
	Wear ear protection when in operation
Description 1000 (100) (1000 (1000 (100) (1000 (	Warning: Load noise when in operation
	WARNING: Adhere to safety information on label

## ASSEMBLY

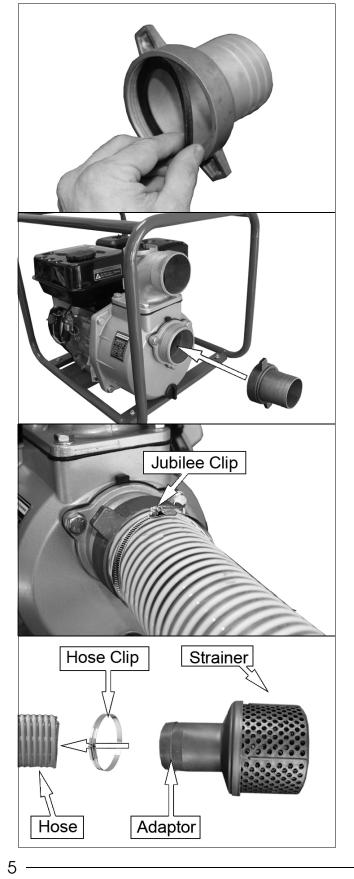
### **INSTALL THE SUCTION HOSE**

- 1. Put the rubber washer into the adaptor.
  - Make sure that it is seated correctly.

2. Screw the adaptor onto the pump securely.

 Slide the hose on to the adaptor and lock in position with the jubilee clip supplied.

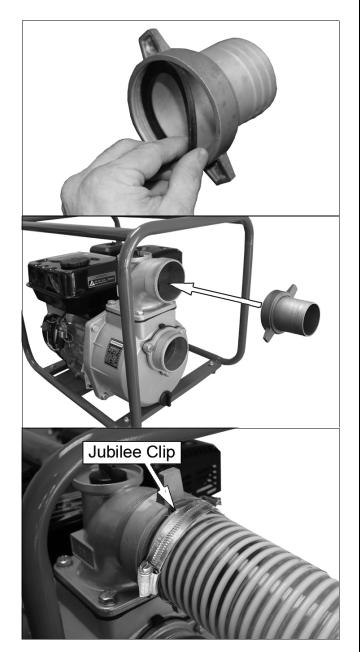
4. Install the strainer on to the other end of the hose following the picture on the right.



### **INSTALL THE DISCHARGE HOSE**

- 1. Put the rubber washer into the adaptor.
  - Make sure that it is seated correctly.
- 2. Screw the adaptor onto the pump securely.

3. Slide the hose on to the adaptor and lock in position with the jubilee clip supplied.



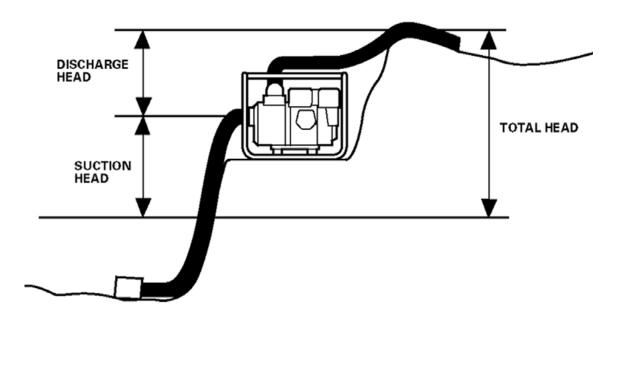
### **BEFORE USE**

### PUMP PLACEMENT

For best pump performance, place the pump near the water level, and use hoses that are no longer than necessary. That will enable the pump to produce the greatest output with the least self-priming time.

As head (pumping height) increases, pump output decreases. The length, type, and size of the suction and discharge hoses can also significantly affect pump output.

Discharge head capability is always greater than suction head capability, so it is important for suction head to be the shorter part of total head



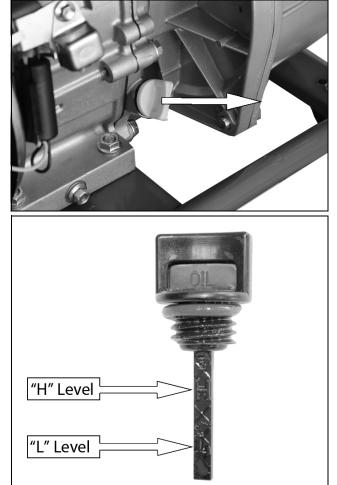
### CHECK THE ENGINE OIL LEVEL



## WARNING: TO DO THIS CHECK, PUT THE PUMP ON LEVEL GROUND WITH THE ENGINE SWITCHED OFF.

WARNING: TAKE CARE NOT TO TOUCH ANY HOT PARTS OF THE PUMP WHEN CHECKING THE OIL LEVEL.

- 1. Turn the oil filler cap anticlockwise and remove from the oil fill tube.
- 2. Clean the dipstick with a clean cloth.
- Put the dipstick into the oil fill tube and then remove it again. Do not screw in the oil filler cap/dipstick when doing this.
- 4. If the oil level is at or below the `L' mark on the dipstick, add oil to the crankcase.
  - Fill until the oil touches the threads in the oil fill tube.
  - Oil capacity (See page 20).
  - We recommend you use SAE15W40 oil in this pump. available from your CLARKE dealer.
- 5. Replace the oil filler cap.



### ADD FUEL



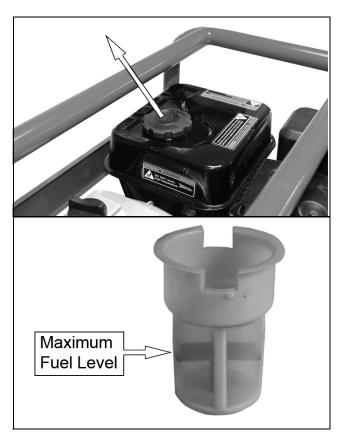
WARNING: REFUEL IN A VENTILATED AREA, AWAY FROM SOURCES OF IGNITION.

WARNING: IF THE ENGINE IS HOT, LET IT COOL BEFORE REFUELING. WARNING: KEEP FUEL OUT OF THE REACH OF CHILDREN.

#### **RECOMMENDED FUEL**

#### Only use unleaded petrol.

- 1. Remove the fuel tank cap.
  - In the fuel tank is a fuel filter which collects contaminants as you refuel.
- 2. Slowly add fuel to the fuel tank.
  - Make sure that the fuel level is not above the maximum fuel level mark in the fuel filter.
- 3. Replace the fuel tank cap.



## **OPERATION**

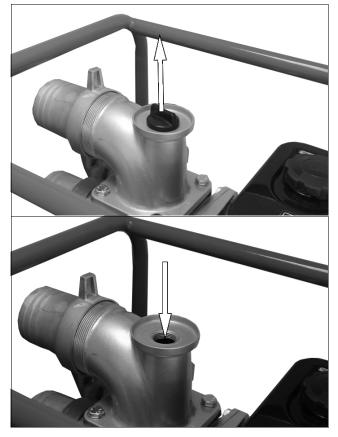


WARNING: WHEN YOU OPERATE THE PUMP, THE EXHAUST MUFFLER WILL BE VERY HOT.

WARNING: DO NOT OPERATE THE ENGINE IN A CLOSED SPACE, MAKE SURE THAT THERE IS SUFFICIENT AIRFLOW AROUND THE PUMP.

### PRIME THE PUMP

- 1. The pump MUST be primed before use
- 2. Before starting the engine, remove the filler cap from the pump chamber.
- 3. Fill the pump chamber and inlet hose with water.
  - **NOTE:** A foot valve (not supplied) connected to the lower end of the inlet hose between the hose and the strainer will help to maintain priming,
- 4. Replace the filler cap and tighten it securely.





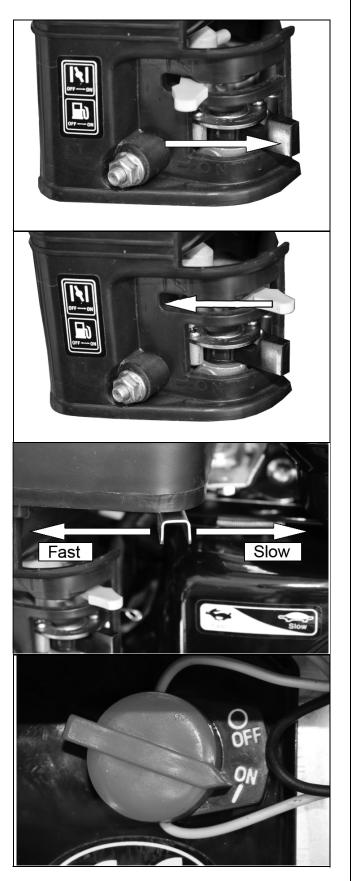
WARNING: OPERATING THE PUMP DRY WILL DESTROY THE PUMP SEAL. IF THE PUMP IS OPERATED DRY, STOP THE ENGINE IMMEDIATELY, AND LET THE PUMP COOL BEFORE PRIMING

### START THE ENGINE

1. Set the fuel value to the ON position.

- 2. To start a cold engine, move the choke lever to the `ON' position.
  - To restart a warm engine, move the choke lever to the `OFF' position, as shown.
- 3. Move the throttle lever away from Slow about 1/3 of the way.

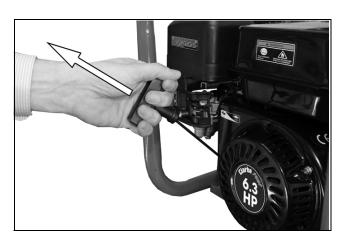
4. Set the engine switch to 'ON'.



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5. Pull the starting handle lightly until you start to feel resistance. Then pull up and away suddenly to start the engine.

**NOTE:** You might need to do this more than once.





## WARNING: WHEN THE PUMP HAS STARTED, RELEASE THE STARTING HANDLE SLOWLY TO PREVENT INJURY/DAMAGE AS IT RETURNS.

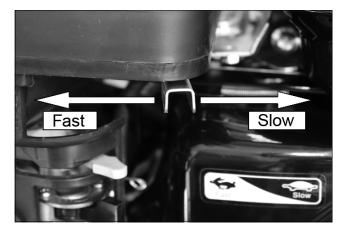
6. Once the engine has warmed up from a cold start, move the choke lever to the `ON' position.

### SETTING THE ENGINE SPEED

After starting the engine, move the throttle lever to the FAST position for selfpriming and check pump output.

Pump output is controlled by adjusting engine speed.

- Moving the throttle lever in the FAST direction will increase pump output.
- Moving the throttle lever in the SLOW direction will decrease pump output.



### SHUT DOWN THE PUMP

To stop the pump in an emergency, set the engine switch to `OFF'.

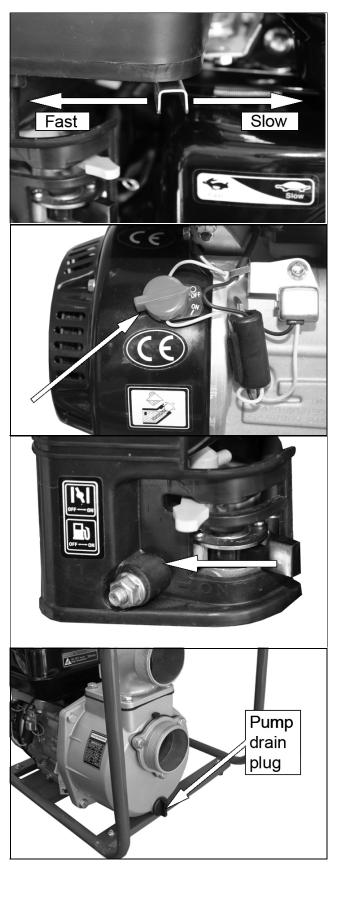
1. Use the throttle lever to decrease engine speed to minimum.

2. Set the engine switch to "OFF".

3. Turn the fuel value to "OFF".

### AFTER USE

- 1. Remove the pump drain plug and drain the pump chamber.
- 2. Remove the filler cap and flush the pump chamber with clean, fresh water.
  - Allow the water to drain from the pump chamber.
- 3. Reinstall the filler cap and drain plug.

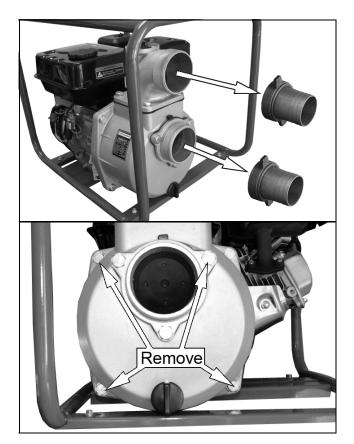


### MAINTENANCE

### **CLEARING BLOCKAGES**

1. Remove the hoses and adaptors from the pump.

- 2. Remove the four bolts shown in the picture.
- 3. Remove the front cover.
- 4. Clear debris and clean the inner parts using clean water.
- 5. Replace the front cover and secure using the four bolts removed in step 2.



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### CHANGING THE ENGINE OIL

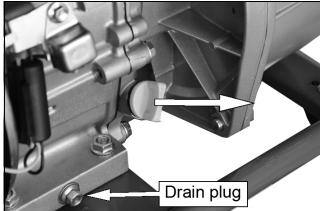


CAUTION: PROLONGED EXPOSURE TO USED ENGINE OIL IS DANGEROUS, ALWAYS WASH YOUR HANDS THOROUGHLY AFTER HANDLING USED ENGINE OIL.

Change the oil in the engine after the first 20 hours use and thereafter every 6 months or 100 running hours.

- 1. Unscrew and remove the oil filler cap/dipstick.
- 2. Put a oil collection tray below the drain plug.
- 3. Unscrew the drain plug and let the used engine oil drain from the crankcase into the oil collection tray.

NOTE: Drain the engine oil when the engine is warm, this will make sure that the oil flows out faster.



- 4. Replace the drain plug.
- 5. Fill the crankcase with engine oil.
  - Fill until the oil touches the threads in the oil fill tube.
  - Oil capacity (0.6l).
  - We recommend that you use SAE15W40 oil in this pump available from your CLARKE dealer.
- 6. Replace the oil filler cap/dipstick.

#### **ENVIRONMENTAL PROTECTION**

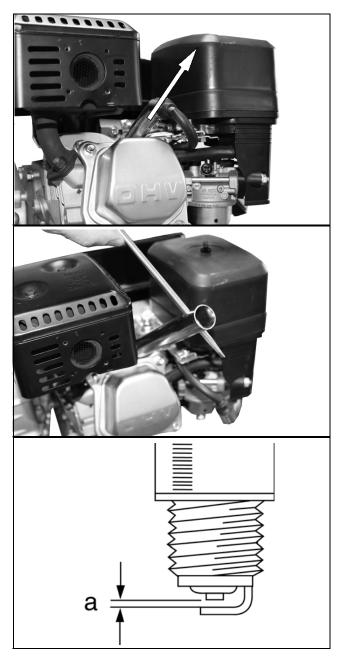
One of the most damaging sources of pollution is oil, do not throw away or pour it down drains. Put it in a leak proof container and take it to your local waste disposal site.

### CHANGING THE SPARK PLUG

Replace the spark plug after the first month or every 50 hours of use.

1. Remove the spark plug cap from the spark plug.

- 2. Use the spark plug spanner supplied to remove the spark plug.
- 3. Remove any carbon that has collected around the electrode.
- 4. Check the spark plug gap (a), it should be between 0.7 and 0.8 mm, adjust if necessary.
- 5. Check the overall condition of the spark plug for erosion or pitting and replace if necessary.
- 6. Reinstall the spark plug and replace the spark plug cap.



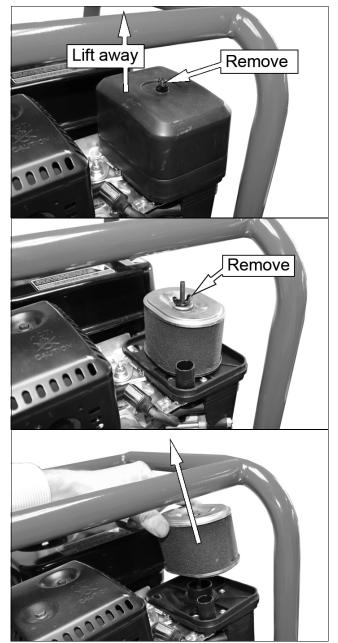
### **CHANGING THE AIR FILTER**

Clean the air filter after 50 hours of operation (or more often in unusually dusty conditions) as follows.

1. Unscrew the wingnut and lift off the air filter cover.

2. Remove the wingnut that holds the air filter in position.

- 3. Remove the air filter element.
- 4. Clean the air filter or replace if necessary.
  - If the filter is dirty, wash the filter in a solution of warm water and mild detergent and rinse thoroughly. Leave the filter to dry completely,
- 5. Once it is dry, Dip in clean engine oil and squeeze out excess oil.



• Do not operate the pump without the air cleaner installed as this will cause premature wear to the engine.

### STORAGE

1. Always keep the pump in a clean condition, checking regularly for loose bolts etc.

## TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
The engine does	No fuel in tank.	Add fuel.
not start.	Fuel valve is set to OFF	Set the fuel valve to ON
	Engine switch is in the OFF position.	Set engine switch to the ON position.
	Lack of spark at the spark plug.	Make sure that the spark plug cover is fitted on to the plug.
		With the engine switch in the ON position, hold the spark plug electrode against the engine and pull the starter cord. If a spark is present but engine will not start, consult your CLARKE dealer.
The engine stops and will not restart.	No fuel in tank.	Add fuel to the tank.
The pump fails to prime.	Priming chamber not filled correctly.	Fill priming chamber leaving no air gap.
	Air leaking due to damaged hose, broken hose clamps, split/ill-fitting gasket.	Repair as necessary.
	Blocked inlet hose.	Clean strainer and make sure that it is not submerged in mud or sediment. Make sure that there are no kinks in the delivery hose.
	Engine speed too low.	Increase engine speed.
	Damaged impeller.	Disassemble the pump and replace the impeller.
	Air leaking through damaged seal.	Replace seal.

PROBLEM	CAUSE	SOLUTION
Low output from pump.	The engine speed is too low.	Increase the engine speed.
	Pickup or delivery hose obstructed.	Clear obstruction and make sure that there are no kinks in hose.
	Suction lift too high.	Set the pump nearer to the water level.
	Congested material inside pump.	Disassemble the pump and clean out.
	Damaged impeller.	Disassemble the pump and replace the impeller.

If you cannot correct the fault, speak to your local dealer or the CLARKE International service department.

## **ENVIRONMENTAL PROTECTION**

At the end of its working life, do not discard this pump or its components with general household waste. Packaging must be taken to a recycling centre and discarded appropriately.

One of the most dangerous sources of pollution is oil. Do not discard used oil with domestic refuse or flush down a sink or drain. Collect the oil in a leak-proof container and take it to your local waste disposal site.

## **SPECIFICATION**

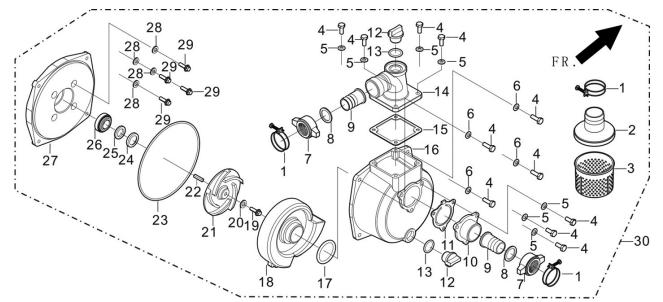
Item	Spec
Pump Dimensions (L X W X H)	550 X 430 X 452 mm
Pump Weight (Kgs)	27.4 kg
Water Classification	Dirty / Clean (NOT SEWAGE)
Max Solids In Suspension	15 mm
Inlet/outlet Size	3" BSP
Maximum Flow	750l/min (45m <sup>3</sup> /h) max
Max Head	23 m
Suction Head	7-8 m
Max Pressure	2.3 bar
Run Time @75% Rated Load	3 hrs
Engine Type/speed	6.3HP (4 stroke) 3600 rpm
Fuel Tank Capacity (Petrol)	3.6 L
Lubrication Oil Capacity/grade	0.6 L (SAE 15W40)
Sound Pressure Level	89.5 dB LpA
Sound Power Level	103 dB LWA
Guaranteed Sound Power Level	105 dB LWA
Uncertainty Factor (K)	2.5 dB

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## **EXPLODED DIAGRAMS AND PARTS LIST**

A full set of parts list and diagrams are available from the CLARKE International service department.

### WATER PUMP ASSEMBLY

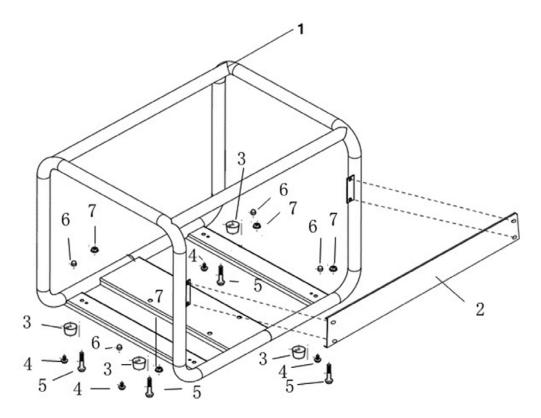


NUMBER	DESCRIPTION	PART NUMBER
]	HOSE CLIP,	ZGGMQGZ804525F6801
2	STRAINER COVER,	ZGGMQGZ804525F6802
3	STRAINER	ZGGMQGZ804525F6803
4	BOLT	ZG90001082501F6804
5	WASHER	ZGGMQGZ804525F6805
6	WASHER	ZG90408080001F6806
10	WATER INLET,	ZGGMQGZ804525F6810
11	INLET WATER GASKET?	ZGGMQGZ804525F6811
12	THREAD PLUG,	ZGGMQGZ804525F6812
13	SCREW PLUG WASHER,	ZGGMQGZ804525F6813
14	WATER OUTLET	ZGGMQGZ804525F6814
15	OUTLET GASKET	ZGGMQGZ804525F6815
16	PUMP BODY	ZGGMQGZ804525F6816
17	WHORL CASE SEALING RING	ZGGMQGZ804525F6817
18	WHORL CASE,	ZGGMQGZ804525F6818
19	BOLT	ZGGMQGZ804525F6819
20	WASHER	ZGGMQGZ804525F6820

Parts & Service: 020 8988 7400 / E-mail: Parts@clarkeinternational.com or Service@clarkeinternational.com

21	WATER PUMP IMPELLER,	ZGGMQGZ804525F6821
22	KEY	ZGGMQGZ804525F6822
23	WATER PUMP JOINT CUSHION,	ZGGMQGZ804525F6823
24	IMPELLER SEAL	ZGGMQGZ804525F6824
25	PORCELAIN SEAL,	ZGGMQGZ804525F6825
26	MECHANISM SEAL ASSEMBLY,	ZGGMQGZ804525F6826
27	WATER PUMP JOINT,	ZGGMQGZ804525F6827
28	WASHER	ZGGMQGZ804525F6828
29	BOLT	ZGGMQGZ804525F6829
30	WATER PUMP ASSEMBLY,	ZGGMQGZ804525F6830

### **ENGINE FRAME ASSEMBLY**



NUMBER	DESCRIPTION	PART NUMBER
1	ENGINE FRAME ASSEMBLY,	ZG51100V010110H700
2	DECORATIVE FRAME	ZG210GM720423-0002
3	ENGINE FRAME SHOCK ABSORPTION SEAT,	ZG51014HY450110GMQGZ804525
4	BOLT	ZG90001061201
5	BOLT	ZG90001085001
6	NUT	ZG90305060031
7	NUT	ZG90327080031
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Parts & Service: 020 8988 7400 / E-mail: Parts@clarkeinternational.com or Service@clarkeinternational.com

### **DECLARATION OF CONFORMITY**

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DEC	LARATION OF CONFORMITY			DECLARATION OF CO	
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Model number(s):	PS75A			ry (Safety) Regulations 2008	
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Date of Issue: Noise Conformity)	14/12/2022.		The Non-Road Mo Regulations 2018	bile Machinery (Type-Approval and Em	ission of Gaseous and Particulate Pollutants
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				s have been applied to the product(s)	
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