Aussie Pumps
www.aussiepumps.com.au
High Pressure Cleaners

CLASS A BLASTER
AS/NZS 4233.1

# AUSSIE MONSOON SCUD SERIES

## OPERATOR'S INSTRUCTION MANUAL

Dec 2024

CLASS A BLASTER

BERTOLINI® pumps
4 year warranty

**Covers:**

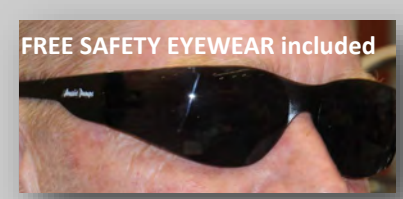
- Monsoon Scud 200
- Monsoon Scud 300
- Monsoon Scud 400

**NEW** Monsoon Scud 400 M-A

**NEW** Hurricane A

REF: AMON_3PH_A_1

**IMPORTANT:**
**TO REDUCE RISK OF INJURY, READ OPERATING INSTRUCTIONS CAREFULLY BEFORE USING EQUIPMENT**




Aussie Pumps

# AUSSIE HIGH PRESSURE BLASTER RISK ASSESSMENT

**MODELS:**

In line with the National Occupation Health & Safety Commission's requirements the data below applies to the following Aussie Scud high pressure water blasters:

- Monsoon 200
- Monsoon 300
- Monsoon 400
- Monsoon Maxi A
- Hurricane A

**NB: Class A machine operators do not require certification under AS/NZS 4233.1**

CLASS A BLASTER
AS/NZS 4233.1

**FREE ONLINE**
**Aussie Safe Operator training**

**DESCRIPTION:**

Electric drive high pressure cold water blasters designed for professional cleaning applications.

**MATERIAL CONSTRUCTION:**

Aussie Monsoon Scud pressure washers are mounted on heavy duty trolley mounted frames. They consist of a quality 4 pole electric motor driving a triplex style three piston high pressure pump. The machines are supplied with wheels for ease of portability and manoeuvrability. The machines can be supplied with hose reels and up to 45 metres of high pressure hose to increase operator convenience.

**RISK RANKING METHOD:**

Risk is the combination of the likelihood of a specific unwanted event and the potential consequences if it should occur.

**RISK RANKING TABLE:**

The consequences (loss outcomes) are combined with the likelihood (of those outcomes) in the risk ranking table to identify the risk rank of each loss event (e.g. a consequence of 'Moderate' with a likelihood of 'Likely' yields a risk rank of 17).

The table yields a risk rank from 1 to 25 for each set of probabilities and consequences. A rank of 25 is the highest magnitude of risk that is a highly likely, very serious event.

A rank of 1 represents the lowest magnitude of risk, an almost impossible very low consequence event.

| Likelihood | Use the matrix to determine the risk | Consequences | | | | |
|---|---|---|---|---|---|---|
| | | Insignificant | Minor | Moderate | Major | Catastrophic |
| | Almost certain | High 11 | High 16 | Extreme 20 | Extreme 23 | Extreme 25 |
| | Likely | Moderate 7 | High 12 | High 17 | Extreme 21 | Extreme 24 |
| | Possible | Low 4 | Moderate 8 | High 13 | Extreme 18 | Extreme 22 |
| | Unlikely | Low 2 | Low 5 | Moderate 9 | High 14 | Extreme 19 |
| | Rare | Low 1 | Low 3 | Moderate 6 | High 10 | High 15 |

Controls must be taken to either eliminate or minimise the risk.

**Risks associated with operating a high pressure cleaner … for use in daily SAFE WORK METHOD STATEMENT**

| Hazard | Risk | Risk Rating | Controls |
|---|---|---|---|
| Entanglement with hose (tripping, falling) | Personal injury of the operator or bystanders | 13 | ♦ Warning stickers<br>♦ hose reel option<br>♦ Ensure firm footing before operating machine |
| Injury from high pressure water | Personal injury of the operator or bystanders | 13 | ♦ Warning notice on blaster<br>♦ Wear eye protection & PPE<br>♦ Use high pressure resistant gloves<br>♦ Always point spray jet at area to be cleaned<br>♦ Use barriers to keep bystanders away from work area<br>♦ Stop jetting if persons enter working area<br>♦ Never leave machine unattended<br>♦ Never point hose at any person or animal<br>♦ Never put your hand over the spray nozzle when operating<br>♦ Stop operating if a malfunction occurs |
| Ergonomic lifting or movement on site, | Personal injury | 18 | ♦ Operator's Manual<br>♦ Staff training |
| Electrocution | Personal injury | 14 | ♦ Warning sticker<br>♦ Disconnect from power before servicing machine |
| Unsecured machine, moves unattended | Cause of accidents and/ or injury | 8 | ♦ Use of chocks behind wheels or ute mounting kit |
| Dislodged particles in atmosphere | Sight damage | 20 | ♦ **Never clean asbestos** with high pressure water<br>♦ Use of eye protection |
| Slipping on wet surface | Personal injury | 17 | ♦ Use of proper footwear |
| Contact with chemical cleaners used to clean surfaces | Skin contact could result in burns, skin irritation etc. Fumes from some chemicals may lead to respiratory problems | 22 | ♦ Chemical cleaners to only be used as a last resort when other methods have failed.<br>♦ Areas to be kept well ventilated.<br>♦ Staff to follow manufacturers' instructions at all times for use, storage & disposal.<br>♦ Staff to wear the appropriate PPE<br>♦ Respiratory protection when required |

**NEW Aussie**
**4,000 psi Monsoon 400 Maxi A &**
**5,000 psi Hurricane A**

**Aussie Monsoon series** …
now available with
**stainless steel frame**

**CLASS A BLASTER**
**AS/NZS 4233.1**

**NB: Class A machine operators do not require certification under AS/NZS 4233.1**

# AUSSIE ECO CLEAN BLASTER OPERATING & MAINTENANCE INSTRUCTIONS

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**CONGRATULATIONS** on the purchase of an Aussie Monsoon Scud professional high pressure water blaster. These top of the range machines have been designed to be easy to use, simple to service and offer reliability and performance.

Before attempting to operate your machine please read this Instruction Manual thoroughly following all directions carefully. By doing so you will ensure safe operation of the unit and will enjoy long and trouble free service from your heavy duty water blaster.

## GUARANTEE … EXCLUSIVE 4 YEAR PUMP

This Aussie Eco Clean product is guaranteed against faults in manufacture for two years from purchase. The Bertolini pump has a four year warranty, but must be serviced by an authorised service agent every six months to maintain this warranty. Keep your receipt as proof of purchase and all service receipts. This guarantee is invalid if the product is found to have been abused in any way, or not used for the purpose for which it was intended.

Routine maintenance is the owner's responsibility. Failure to maintain the machine in line with the services outlined on the back page will invalidate warranty. High pressure accessories carry a 3 month warranty.

Where possible return faulty goods to the place of purchase. No products can be returned to us without our prior permission. The reason for return must be clearly state.

**N.B. Warranty is not transferrable to third parties in the event of sale of the machine within the warranty period. Please note that any parts used in warranty repairs are guaranteed for a period limited by the original warranty of the parent product.**

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

The benefits under the Aussie Pump warranty are in addition to other rights under Australian Consumer Law.

## SAFETY PRECAUTIONS - IMPORTANT

1. **NEVER** direct the spray jet at any person or animal. Keep hands and feet clear of the cleaning nozzle at all times.
2. **NEVER** direct spray jet at any surface that may contain asbestos material.
3. **NEVER** hold a finger over the high pressure nozzle.
4. **NEVER** direct the spray jet at the machine itself or any electrical equipment.
5. After use release the pressure in the high pressure hose by operating the gun trigger.
6. **DO NOT** attempt any mechanical repair. If you have a problem with your machine contact your local Aussie Eco Clean Service Division, phone (02) 8865 3500.
7. **NEVER** supply any liquid other than water to the pump inlet.
8. **DO NOT** run dry
9. **NEVER** pull the high pressure hose if it has formed kinks or nooses.
10. **NEVER** pull the hose over sharp objects.
11. **DO NOT** join high pressure hoses. The connectors may leak and cause the unloader to wear prematurely. Buy extra length hoses if extended range required.
12. **DO NOT** attempt to disconnect any hose or coupling with pressure still in the hose.
13. **DO NOT** operate the machine whilst standing on ladders, use a platform tower or scaffolding.
14. Disconnect power when machine not in use..
15. **DO NOT** operate if power cable is damaged, contact a certified electrician for replacement.
16. **DO NOT** try to repair a leak in the hose or connection while the system is under pressure.
17. **DO NOT** substitute any component part on this machine. Use of incorrect parts could cause serious personal injury.
18. Children should **NOT** be allowed to use the machine.
19. Use safety goggles and steel cap boots when using the machine.
20. **DO NOT** use machine if there is any chance water has frozen inside the pump or hoses. Thaw thoroughly before starting.

## SPECIFICATIONS

| *Model* | *Safety classification* | *Motor* | *Pump Model* | *Pump Pressure (psi)* | *EWP (psi) with turbo lance* | *Flow rate (lpm)* | *Pump rpm* |
|---|---|---|---|---|---|---|---|
| Monsoon Scud 200 | Class A | 5.5kW, IP56 | TTL1520 | 3000 | 4785 | 15 | 1450 |
| Monsoon Scud 300 | Class A | 7.5 kW, IP56 | TTL2120 | 3000 | 4785 | 21 | 1450 |
| Monsoon Scud 400 | Class A | 7.5 kW, IP56 | TTL1330 | 4000 | 6785 | 13 | 1450 |
| Monsoon Scud 400 Maxi A | Class A | 11 kW, IP56 | TTL2028 | 4000 | 6485 | 20 | 1450 |
| Hurricane A | Class A | 12.5kW, IP56 | KTL 1635 | 5000 | 8500 | 16 | 1725 |

## CARE OF FRAME & FLAT FREE TYRES … MAINTAIN OPTIMUM PERFORMANCE

Aussie Monsoon blasters now come fitted with top quality **flat free tyres**. To maintain tyre shape ...

1. Ensure that straps used to secure the unit during transit are not over tightened to the point where tyres misshape.
2. Do not leave the unit strapped down for extended periods.
3. Do not drop the unit; this could cause frame distortion or damage bearings.

## ASSEMBLY AND PREPARATION FOR USE

Before proceeding with assembly of your new Aussie Eco Clean blaster, check that all parts listed below are included.

1 x Gun handle assembly

1 x High pressure hose

1 x Lance and nozzle assembly

1 x safety eyewear

**HEAVY DUTY LANCE:** To assemble the gun/lance, screw together and check nozzles have been fitted to end of lance.

## A. Initial Start Up

### ELECTRICAL

**NOTE:** The electrical installation must be performed by a qualified technician authorised to do so. (in compliance with AS/NZS 3000 wiring standards and appliance safety standards AS/NZS60335.2.79 & IEC60335-2-79).

Ensure power supply, all wiring connections and voltages are of sufficient rating to comply with equipment requirement (details supplied on electrical data plate on motor).

Plug fitted must match wall socket type.

Do not use extension leads to supply this machine.

### PUMP

1. Check the oil in the pump.

With the machine on a level surface the oil level should cover the red spot in the sight glass on the side of the pump. If necessary, top up with SAE 75W-90.

Do not mix different grades of oil as this may affect the machines performance. If alternative oil is used, first empty out oil by unscrewing drain plug in bottom of machine.

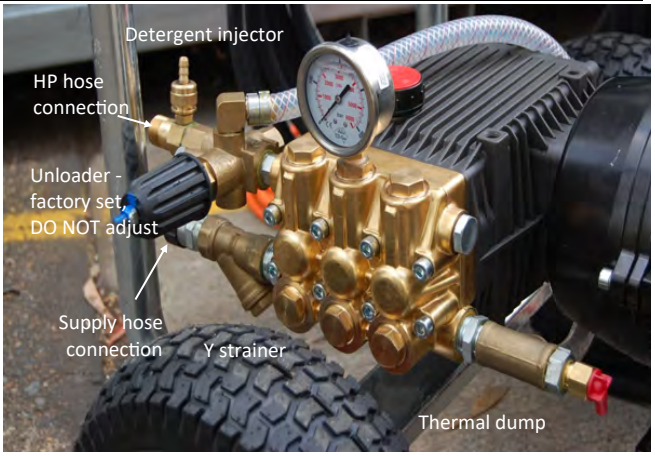
2. Ensure breather plug is fitted to pump.

**WARNING**: Before operation ensure top mounted travel plug is replaced by breather plug. Failure to fit breather and keep clean can result in over pressuring of oil chamber (crank case) and can blow oil seals. This will void warranty.

**HIGH PRESSURE SPRAY CAN PENETRATE THE SKIN & CAUSE SERIOUS INJURY!**

Never point the spray gun at yourself, other people or animals.
Should the spray penetrate the skin **SEEK MEDICAL ATTENTION IMMEDIATELY!**

### Aussie Safety Protection Kit



## B. Hose Connections

1. Connect high pressure hose to machine outlet.
2. If optional low pressure downstream, in-line chemical injector is to be used, connect the injector tube to the detergent inlet and place the other end of the tube, with the strainer attached, in the chemical container (not supplied).
3. Connect gun/lance assembly to high pressure hose.
4. Check inlet water filter is clean then connect water supply hose to machine. Use a 25mm (minimum) hose .

   Incoming water supply must deliver double the flow of the machine. If questionable, check supply at machine. If supply is insufficient, do not operate from this outlet. For residential use, the outlet closest to the meter will usually deliver the highest flow rate. Connect only to clean town water supply.

**Warning:** Do not operate from tank or pond. Doing so will cavitate the pump causing damage. Cavitation or pump starvation is not covered by warranty. Cavitation is a phenomenon causing vacuum pockets to form within the pump that eventually implode under pressure pitting the internal pump surfaces.

## Fitting instructions for optional hose reel

- Securely clamp the hose reel mounting bar across the top of the Scud frame using the two sets of nuts and bolts supplied. Aussie Pumps recommends using Loctite on the bolts to prevent them vibrating loose.

Fit hose reel to the mounting bar using the four sets of nuts and bolts supplied. Ensure all bolts are securely tightened and use Loctite to prevent them vibrating loose.

The reel should be positioned so that it rotates fore/aft to aid fitting whip hose.

- Connect whip hose to high pressure outlet on pump.

- Fit handle to reel.
- Fit gun to hose using C1500.24 nipple.

Start up machine (see below) and check for leaks.
All leaks must be rectified before using machine.

## C. Before starting the machine

1. Ensure machine is level
2. Connect & turn on water supply.
3. Pull gun trigger until water starts to flow in a steady steam then release trigger.
4. Ensure firm footing and prepare for kick-back in gun/lance as machine is turned on.

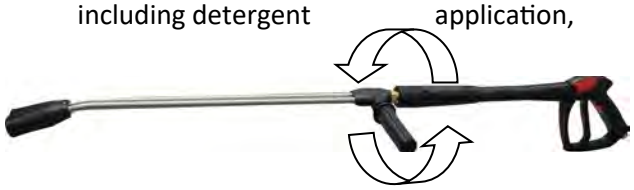
## D. Starting the blaster

1. Ensure unit is plugged into a suitable power outlet.
2. Turn switch on blaster to ON, the unit is now ready to use.

## E. Pressure washing

**WEAR PROPER FACE PROTECTION WHEN OPERATING PRESSURE WASHER!**

1. For high pressure jetting rotate side grip on dual lance backwards until it stops. Fine control of pressure/flow can be made with small adjustments to the rotation of the grip. There is no pressure adjustment available on single lance options.
2. When low pressure and high flow is required, including detergent application,



unwind grip two complete turns. Adjust the detergent control on the pump as required.

**NOTE**: Check the system for water leaks, oil leaks, hose kinks, etc. Correct any problems before proceeding.

Machine is now ready for operation. Pull trigger on gun to release jet of water.

## F. Applying detergent
(not available on Hurricane)

1. Prepare pressure washer detergent solution as required by manufacturer.
2. Place detergent siphon tub/filter into solution.
3. Adjust double lance to low pressure setting.
4. Apply cleaning solution to a dry surface, starting at lower portion of areas to be washed and work upward, using long overlapping strokes.
5. Allow time to detergent to activate and then rinse off. DO NOT allow detergent to dry on.

**IMPORTANT**; You must flush the injection system after each use by placing siphon hose into a bucket of clean water, then run pressure washer in low pressure for 2 minutes.

## G. Stopping the machine

1. If using the detergent injector, flush out the chemical by running clean water through the system.
2. Allow machine to run for 1 minute without load to cool before stopping.
3. Turn switch to OFF & turn off water supply.
4. Pull gun trigger to release all pressure in the system, then LOCK THE TRIGGER.
5. Hoses may now be disconnected from the machine.

Failure to release pressure before disconnecting the hose quick coupler will result in the quick coupler o-ring seal blowing out. This o-ring must be replaced before operating machine.

**DO NOT RUN EXCESSIVE BY-PASS**

SWITCH MACHINE OFF WITHIN TWO MINUTES OF CEASING OPERATION AS EXCESSIVE BY-PASS CAN CAUSE HEAT BUILD UP IN PUMP AND SUBSEQUENT DAMAGE.
**EXCESSIVE BY PASS RUNNING VOIDS WARRANTY!!**

## UNLOADER SETTING

The high pressure unloader on the machine is factory set to operate the pump at it's rated pressure.

**DO NOT ADJUST.** Tampering with the unloader will void warranty and can be dangerous.

**WARNING:**
**CHECK NOZZLES AND REPLACE IF WORN**

If pressure drops off, check nozzle for wear. Nozzles should be replaced on a regular basis (every month for machines in regular use, every 3 months for machines used intermittently. Using the machine with the incorrect nozzle size or worn nozzle will void warranty and can be dangerous to the operator.

## CARE AND MAINTENANCE:

### AFTER EACH USE

- If detergent injector has been used, it is essential to flush the machine with clean water after use.
- Disconnect power.
- Regularly check the power cable for damage and get a certified electrician to replace it if required.

### STORAGE

Store the washer in an upright position, preferably drained of water if there is a danger of freezing.

If there is a danger of freezing anti-freeze should be mixed with the flush water or the machine must be completely drained. After the final flush stop the machine. DO NOT allow the machine to idle for more than 15 seconds. Do not run for longer without water supply.

### PUMP CRANKCASE LUBRICATION

Proper pressure washer pump crankcase lubrication will help extend the working life of the machine. Follow these important guidelines. We recommend keeping a simple service log book (see page 15).

- Change oil in pump after initial 50 hour run-in period. (SAE 75W-90)
- Change pump oil every 3 months (or 200 hours of use), use high quality oil. (SAE 75W-90)
- Pump oil level can be checked with the dip stick under the breather cap or by viewing the oil sight gauge where fitted. The oil level is correct if level is in the centre of the gauge. If oil level is low, fill to correct level with recommended oil (SAE 75W-90). **DO NOT** OVERFILL CRANKCASE!
- If the oil in the sight glass appears milky the pump should be serviced, and the oil replaced.

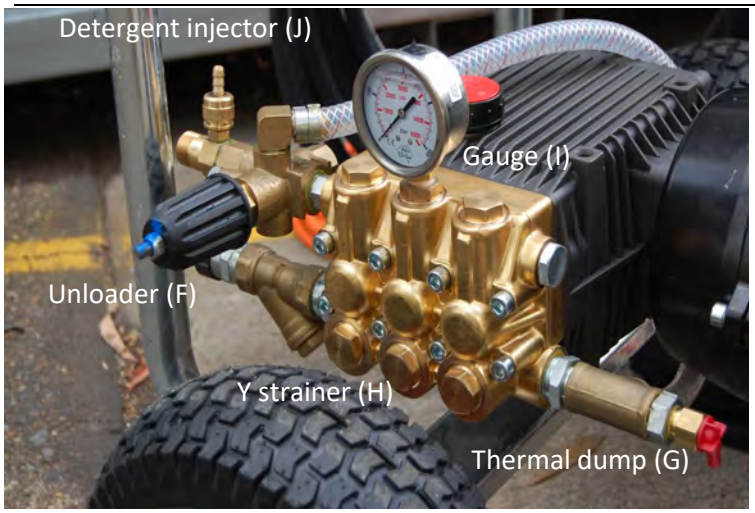
### PREVENTATIVE MAINTENANCE

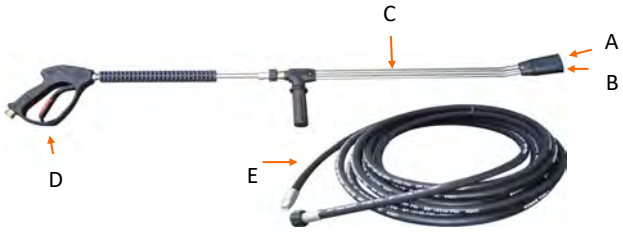
- Keep filter in supply hose connection clean, rinse regularly.
- Use correct size nozzles for machine and replace when worn, check serial tag for correct size.
- Drain water from pressure hoses, gun/lance assembly and accessories after use.
- Protect pump from freezing. Failure to remove water from the pump in freezing temperatures will result in damaged pump manifold.
- **DO NOT** tamper with unloader valve adjustment or alter motor speed.
- **DO NOT** siphon chemicals through the pump, it is designed for water only.
- Incoming water supply must not exceed 60°C, otherwise pumps seal damage could result

## TROUBLE SHOOTING GUIDE

| FAULT | CAUSE | REMEDY |
|---|---|---|
| **Pump running normally but pressure low on installation** | Pump sucking air<br>Valves sticking<br>Unloader valve seat faulty<br>Nozzle incorrectly sized<br>Worn piston packing | Check water supply and possibility of air ingress.<br>Check and clean or replace if necessary<br>Check and replace<br>Check and replace<br>Check and replace |
| **Fluctuating Pressure** | Valves worn<br>Valves blocked<br>Pump sucking air<br>Worn piston packing | Check and replace<br>Check and replace<br>Check water supply and air ingress at joints in suction line<br>Check and replace |
| **Pressure low after period of normal use** | Nozzle worn<br>Check valves worn<br>Check valves blocked<br>Unloader valve seat worn<br>Worn piston packing<br>Pistons cracked as a result of dry running | Check and replace<br>Check and replace<br>Check and clean<br>Check and replace<br>Check and replace<br>Replace pistons |
| **Pump Noisy** | Air in suction<br>Broken or weak suction or delivery valve spring<br>Foreign matter in valves<br>Worn bearing<br>Excessive temperature of liquid | Check water supply and connections on suction line<br>Check and replace<br>Check and clean<br>Check and replace<br>Reduce temperature |
| **Presence of water in oil** | Oil seal worn<br>High humidity in air<br>Piston packing worn | Check and replace<br>Check and change oil twice as often<br>Check and replace |
| **Water dripping below pump** | Piston packing worn<br>O.R plunger retainer worn | Check and replace<br>Check and replace |
| **Oil Dripping** | Travel plug in use on pump<br>Oil seal worn | Replace with breather plug<br>Check and replace if necessary |
| **Unloader switches repeatedly when gun is off** | Leaking gun and/or pressure pipe.<br>Leaky sleeve<br>Worn out kick-back valve body<br>Leaky seals | Renew gun, seal pressure pipe<br>Renew sleeve<br>Check and renew as necessary kick-back valve plate and seat<br>Renew seals |
| **Leaky piston rod** | Defective O-Ring/Support Ring | Renew piston rod seals and examine surfaces in guide case |
| **Leaky by-pass at nominal pressure** | Nozzle too small, too much water.<br>Worn out by-pass valves | Install larger nozzle<br>Examine and renew as necessary |
| **Pressure gauge shows high pressure fluctuations when shutting off gun** | Valve set too high above operating pressure<br>Dirty valve | Adjust the unloader at the operating pressure.<br>Clean valve (removing lime deposits etc).<br>Grease parts before installing. |
| **Pressure in supply line when running on by-pass** | Dirty or worn low pressure valves | Remove & clean or replace low pressure valves |
| **Motor hums when switched on but does not start** | Main voltage too low<br>Spray gun not activated<br>Cross section of extension lead too small | Check electrical connection<br>Activate spray gun when switching on<br>Use correct dimension extension lead |

## PARTS IDENTIFICATION



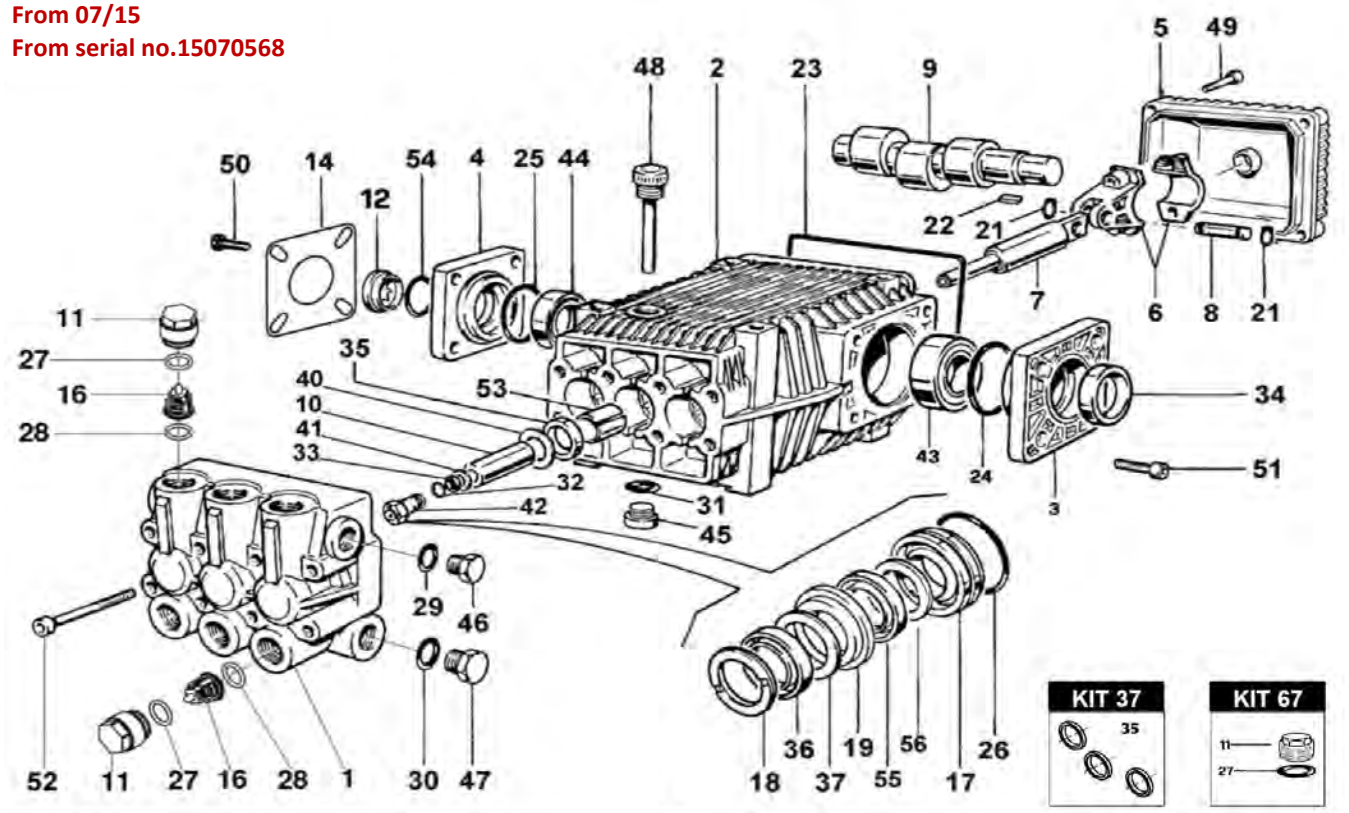

Use motor size & pump model to identify your machine:

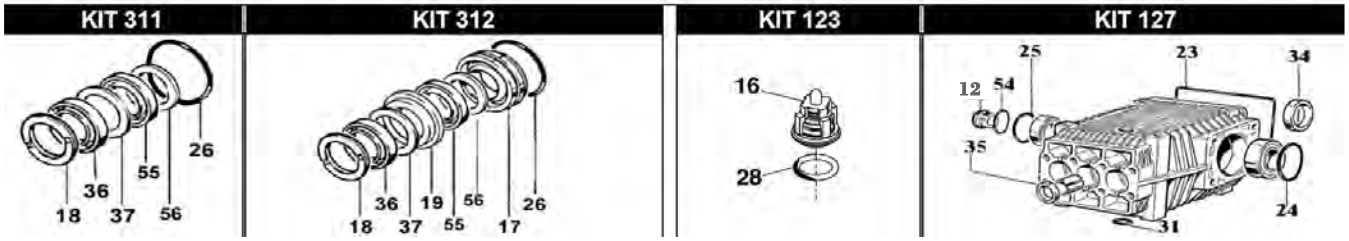
| Model | Safety classification | Motor | Pump Model | Pump Pressure (psi) | EWP (psi) | Flow rate (lpm) | Pump rpm |
|---|---|---|---|---|---|---|---|
| Monsoon Scud 200 | Class A | 5.5kW, IP56 | TTL1520 | 3000 | 4785 | 15 | 1450 |
| Monsoon Scud 300 | Class A | 7.5 kW, IP56 | TTL2120 | 3000 | 4785 | 21 | 1450 |
| Monsoon Scud 400 | Class A | 7.5 kW, IP56 | TTL1330 | 4000 | 6785 | 13 | 1450 |
| Monsoon Scud 400 Maxi A | Class A | 11 kW, IP56 | TTL2028 | 4000 | 6485 | 20 | 1450 |
| Hurricane A | Class A | 12.5kW, IP56 | KTL 1635 | 5000 | 8500 | 16 | 1725 |

| Position | Part No | Description | Monsoon Scud 200 | 300 | 400 | 400 Maxi A | Hurricane A |
|---|---|---|---|---|---|---|---|
| | **Nozzles** | | | | | | |
| A | C915045M | HP NOZZLE (15° ANGLE, TIP SIZE 45) | ✓ | | | | |
| | C915065M | HP NOZZLE (15° ANGLE, TIP SIZE 65) | | ✓ | | | |
| | C915050M | HP NOZZLE (15° ANGLE, TIP SIZE 50) | | | | ✓ | |
| | C915035M | HP NOZZLE (15° ANGLE, TIP SIZE 35) | | | ✓ | | ✓ |
| B | C915500MSS | LP DETERGENT NOZZLE | ✓ | ✓ | ✓ | ✓ | |
| | **Lance & Gun** | | | | | | |
| C | C3924.01 | 684MM SS DUAL LANCE | ✓ | ✓ | ✓ | ✓ | |
| | MPA40026100 | S3-350 SS SINGLE LANCE | | | | | ✓ |
| D | M4022209003 | AL55 GUN WITH MELTED HANDLE & QC | ✓ | ✓ | ✓ | ✓ | |
| | CGPDG5010 | 5000 PSI RATED PRO GUN | | | | | ✓ |
| | **Hose** | | | | | | |
| E | AHW06M22X2X10 | 10 MTR HP HOSE (R2, 5800 PSI) | ✓ | ✓ | ✓ | ✓ | |
| | AHW06FB6FB6X10 | 10 MTR HP HOSE (R2, 5800 PSI) | | | | | ✓ |
| | **Unloader** | | | | | | |
| F | M215010400 | UNLOADER VALVE (3600 PSI) | ✓ | ✓ | | | |
| | BVB350 | UNLOADER VALVE (5100 PSI) | | | ✓ | ✓ | ✓ |
| | **Thermal Dump Valves** | | | | | | |
| G | MPA60063070 | THERMAL DUMP VALVE 1/2" | ✓ | ✓ | ✓ | ✓ | ✓ |
| | **Inlet Strainer** | | | | | | |
| H | AYSTRAINER3/4" | 3/4" Y STRAINER | ✓ | ✓ | ✓ | ✓ | ✓ |
| | **Gauge** | | | | | | |
| I | AGCDR0102 | 6,000 PSI PRESSURE GAUGE | ✓ | ✓ | ✓ | ✓ | ✓ |
| | **Chemical Injector** | | | | | | |
| J | FXZ1763 | CHEMICAL INJECTOR | ✓ | ✓ | ✓ | ✓ | |
| | **Switch** | | | | | | |
| | ASWITCH20A3 | ON/OFF SWITCH (20 AMP) | ✓ | ✓ | ✓ | | |
| | ASWITCH25A3 | ON/OFF SWITCH (25 AMP) | | | | ✓ | ✓ |
| | **Electric Motor** | | | | | | |
| | A140060T001 | 7.5HP MOTOR (5.5 KW) 24MM | ✓ | | | | |
| | A140060T002 | 10HP MOTOR (7.5 KW) 24MM | | ✓ | ✓ | | |
| | A140060T024 | 15HP MOTOR (11 KW) 24MM | | | | | |
| | A140060T020 | 17HP MOTOR (12.5 KW) | | | | ✓ | |
| | A140060T027 | 17HP MOTOR (12 KW) | | | | | ✓ |
| | **Pump** | | | | | | |
| | TTL1520 | BERTOLINI 200 BAR PUMP, 15 LPM FLOW | ✓ | | | | |
| | TTL2120 | BERTOLINI 200 BAR PUMP, 21 LPM FLOW | | ✓ | | | |
| | TTL2028 | BERTOLINI 280 BAR PUMP, 20 LPM FLOW | | | | ✓ | |
| | TTL1330 | BERTOLINI 300 BAR PUMP, 13 LPM FLOW | | | ✓ | | |
| | KTL 1635 | BERTOLINI 350 BAR PUMP, 16 LPM FLOW | | | | | ✓ |

## PUMP PARTS TTL 1520, TTL 2120 (Monsoon 200 & 300 - 2012 onwards)

**From 07/15**
**From serial no.15070568**




| Kit No. | Description | Pieces |
|---|---|---|
| 127 | Oil Seal & Sight Glass Kit | 10 |
| 123 | Valve Kit | 12 |
| 311 | Seal Kit Minor | 18 |
| 312 | Seal Kit Major | 24 |
| 37 | Oil Seal Kit | 3 |
| 67 | Valve cap kit | 12 |

Check out our spares and customer service page on the web for full parts breakdowns and to download our Bertolini Pump Blaster Service Essential handbook .....www.aussiepumps.com.au

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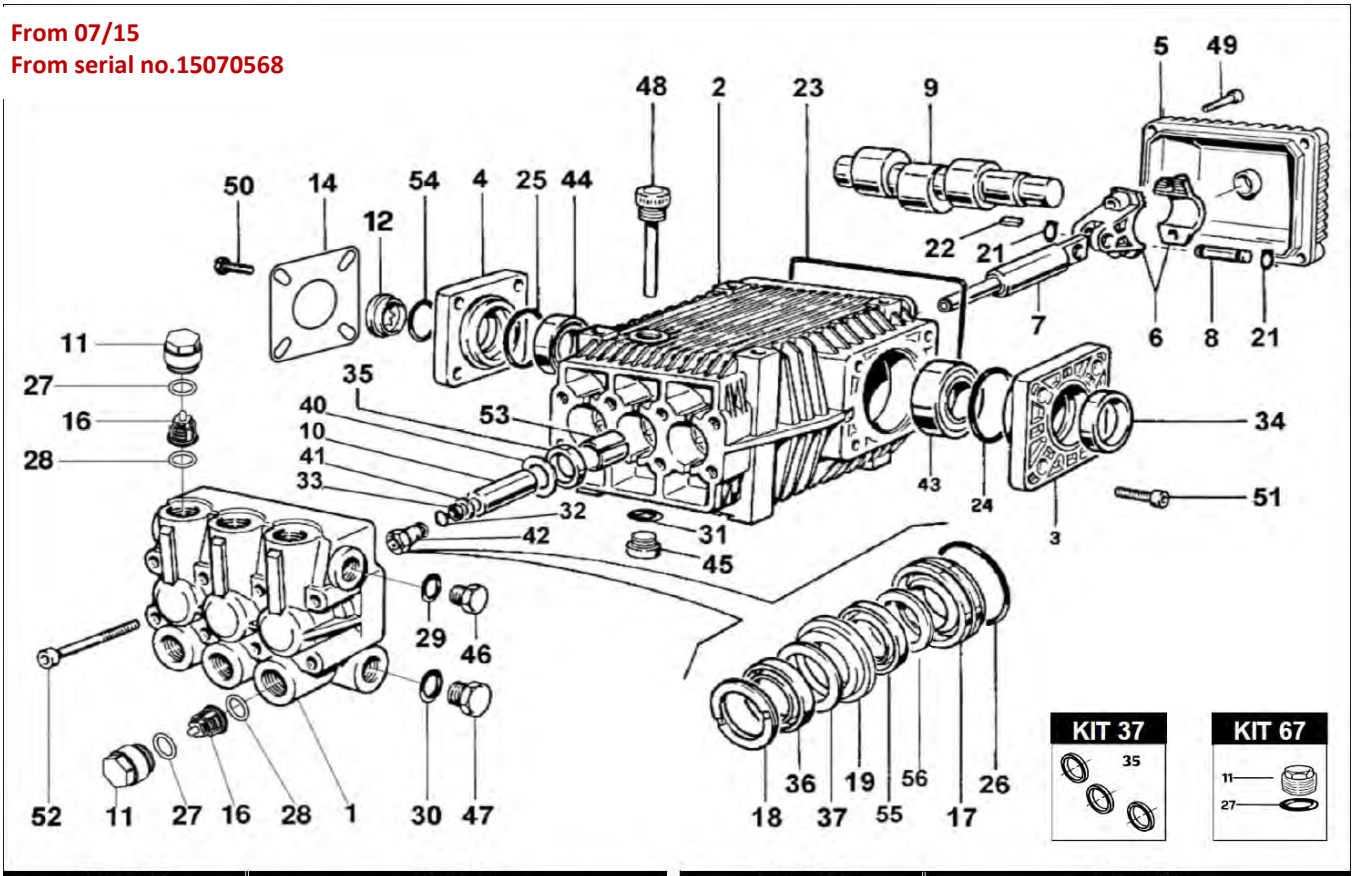
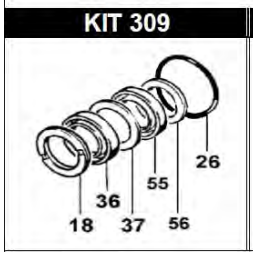
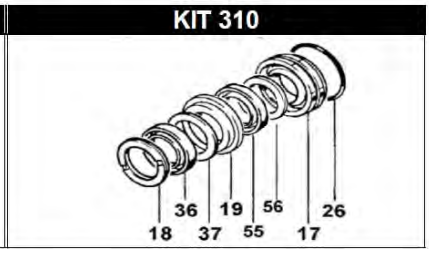
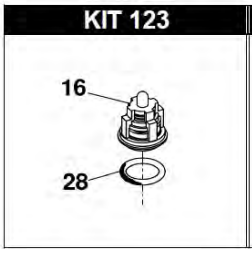
## PUMP PARTS TTL 1330 TTL 2028 (Monsoon 400 & 400 Maxi A)

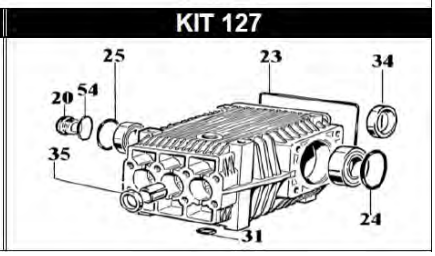
**From 07/15**
**From serial no.15070568**




| Kit No. | Description | Pieces |
|---|---|---|
| 127 | Full Oil seal & Sight Glass kit | 10 |
| 123 | Valve Kit | 12 |
| 309 | Seal Kit Minor | 18 |
| 310 | Seal Kit Major | 24 |
| 37 | Oil Seal Kit | 3 |
| 67 | Valve cap kit | 12 |

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Check out our spares and customer service page on the web for full parts breakdowns and to download our Bertolini Pump Blaster Service Essential handbook
…..www.aussiepumps.com.au

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**FREE SAFETY STICKERS**

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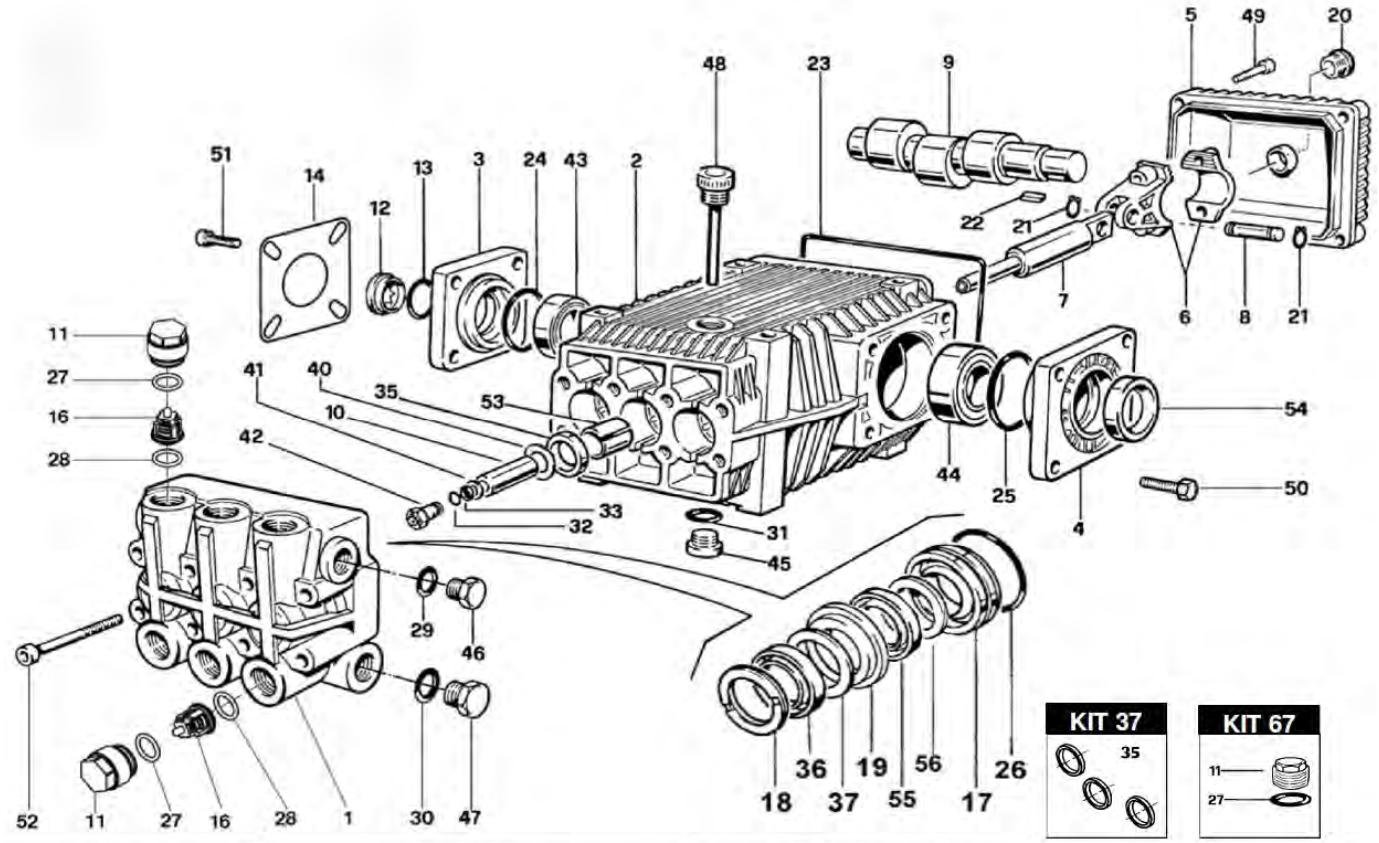
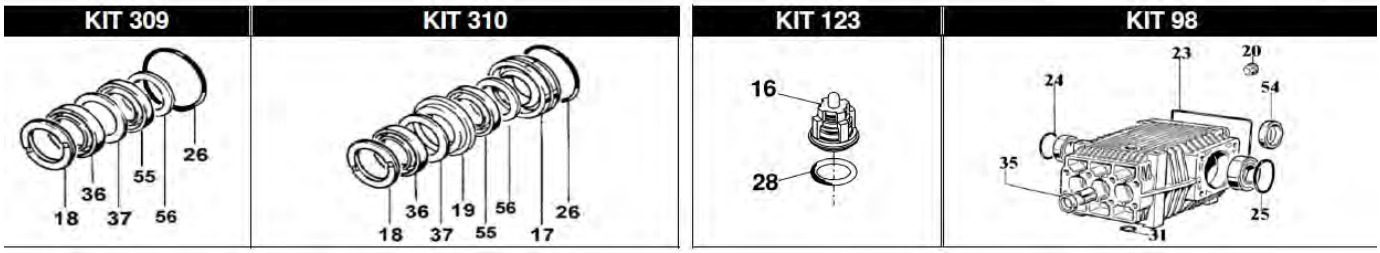
## PUMP PARTS KTL 1635 (Hurricane A)




Order the right part first time …
specify the pump model number when ordering parts.

Full parts breakdowns available online …
www.aussiepumps.com.au

FREE pump service guide available

| Kit No. | Description | Pieces |
|---|---|---|
| 123 | VALVE KIT | 12 |
| 309 | SEAL KIT MINOR | 19 |
| 310 | SEAL KIT MAJOR | 25 |
| 37 | OIL SEAL KIT | 3 |
| 67 | CAP KIT | 12 |
| 98 | O-RING & SIGHT GLASS KIT | 11 |

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## SERVICE RECORD

Refer to page 16 for details of service schedule. A service record must be maintained to keep warranty valid.

| Service type | Tick | Date | Notes | Signed |
|---|---|---|---|---|
| **3 month** | ☐ | | | |
| **6 month** (including oil change) | ☐ | | | |
| **3 month** | ☐ | | | |
| **6 month** (including oil change) | ☐ | | | |
| **3 month** | ☐ | | | |
| **6 month** (including oil change) | ☐ | | | |
| **3 month** | ☐ | | | |
| **6 month** (including oil change) | ☐ | | | |
| **3 month** | ☐ | | | |
| **6 month** (including oil change) | ☐ | | | |
| **3 month** | ☐ | | | |
| **6 month** (including oil change) | ☐ | | | |
| **3 month** | ☐ | | | |
| **6 month** (including oil change) | ☐ | | | |
| **3 month** | ☐ | | | |
| **6 month** (including oil change) | ☐ | | | |
| **3 month** | ☐ | | | |
| **6 month** (including oil change) | ☐ | | | |
| **3 month** | ☐ | | | |
| **6 month** (including oil change) | ☐ | | | |
| **3 month** | ☐ | | | |
| **6 month** (including oil change) | ☐ | | | |
| **3 month** | ☐ | | | |
| **6 month** (including oil change) | ☐ | | | |

# WARNINGS

## OVERSPEEDING

Do not operate machine over maximum rpm. Over speeding can cause serious pump damage.

## HIGH PRESSURE SETTING

The high pressure pump is factory set to operate at its rated pressure. **DO NOT ADJUST.**

Tampering with the pressure regulator will void warranty and can be DANGEROUS.

## EXCESSIVE BYPASS

Do not run on excessive by-pass. Switch machine off within five minutes of ceasing operation as excessive by-pass can cause heat build up in pump and subsequent damage.

Excessive bypass running voids warranty.

## CHECK NOZZLE MONTHLY

If pressure drops off check nozzle for wear.

Nozzles should be replaced on a regular basis (every month for machines in regular use, every three months for machines used intermittently).

Using the machine with the incorrect nozzle size or worn nozzle will void warranty and can be **DANGEROUS** to the operator.

## PRESSURE CLEANER DAILY CHECK LIST

- Check pump oil level
- Check pump oil is clear (not milky). If not pump service required
- Check nozzle for wear
- Check all high pressure components for leaks:
  - gun/lance
  - HP hose
  - all fittings
- Check water filter and clean regularly
- Check unloader, safety valve and thermal dump for leaks

**BEWARE** of abrasions on hose and replace if damaged … **STAY SAFE**

## THREE MONTHLY REGULAR SERVICE

All professional machines need to be thoroughly serviced every three months. The service involved should include the following;

- Change pump oil after first 50 hours and then every 200 hours of service or every 6 months
- Check filter for foreign debris
- Check unloader, safety valve and thermal dump for leaks
- Check all HP components for leaks: Gun/lance, HP hose and all fittings
- Replace nozzles
- Check motor/pump key for wear. Replace if worn.


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