

Thank you for purchasing a Sealey product. Manufactured to a high standard this product will, if used according to these instructions and properly maintained, give you years of trouble free performance.

lack

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.

# 1. SAFETY INSTRUCTIONS

#### **GENERAL SAFETY**

- □ WARNING! RISK OF FLUID INJECTION. This washer operates at fluid pressures and velocities high enough to penetrate human and animal flesh. If there is an occurrence of fluid injection seek medical help immediately
- □ WARNING! Stop the engine and disconnect the mains water supply before changing accessories or performing any maintenance.
- WARNING! Do not operate the washer if damaged. Replace or repair using recommended parts only. Unauthorised parts may be dangerous and will invalidate your warranty. Use authorised Service agent only.
- ✓ Keep the washer in good condition. Regular maintenance will give the best and safest performance.
- ✓ Ensure you comply with the water supply company regulations before connecting to the mains. If you are connecting to the mains drinking water supply ensure you have a back flow preventer valve installed.
  - The water supply hose must be reinforced and have an internal diameter of 13mm (1/2"). The minimum water supply rate must be at least equal to the cleaner capacity. The water temperature must not exceed 50°C, and the pressure must not exceed 10bar.
- □ WARNING! DO NOT operate the washer without the water supply connected. To do so will damage the machine.
- Position the washer as near as possible to the mains water supply.
- ✓ Only use recommended washing detergents. Failure to do so may cause corrosion to equipment and hoses.
- WARNING! Use the washer on a flat, level surface, in a horizontal position. Failure to do so will invalidate your warranty.
- ✓ Wear safety goggles and adequate protective clothing, and anti-slip rubber soled footwear.
- □ WARNING! The high pressure jet must be used with caution. Ensure you aim the lance correctly at the work surface. Failure to do so may scatter loose particles at the same force as the water pressure, resulting in possible damage or personal injury.
- ✓ Keep all persons and animals at a safe distance from the hose working area. It is difficult to give an exact safe distance as it will depend upon your circumstances. We recommend at least 15 metres (16 yards). Also ensure other persons are aware before you start to depress the washer trigger.
- ✓ Hold the gun firmly for it will tend to "kick" backwards when you first pull the trigger.
- **X DO NOT** allow children or untrained persons to operate the washer.
- X DO NOT connect other appliances to the washer inlet or outlet. Only use the supplied or recommended outlet nozzle.
- X DO NOT use the washer if the water supply hose is damaged. Also check that the hose is laid out straight and safely.
- X DO NOT jam the operating trigger in the operating position, and DO NOT pull the trigger without holding and aiming the gun correctly.
- ☐ WARNING! DO NOT attempt to alter the pressure regulating valve as this may cause serious damage.
- X DO NOT move the washer by pulling on the high pressure hose or the mains water supply hose. Use the machine handle.
- X DO NOT direct jet against yourself, other persons or animals, electrical equipment or the machine itself.
- □ WARNING! DO NOT leave the engine running for more that 2 minutes without operating the trigger, as temperature/pressure increase may damage the sealing system.
- X DO NOT use the washer if you are tired or under the influence of alcohol, drugs or intoxicating medication.
- ✓ Ensure that the hose pressure is discharged before disconnecting the mains water hose.
- ✓ When not in use, disconnect from the water supply. Clean and dry the washer and store in a safe, dry, childproof area.
- $oldsymbol{\mathit{X}}$  DO NOT allow the machine to become frozen.

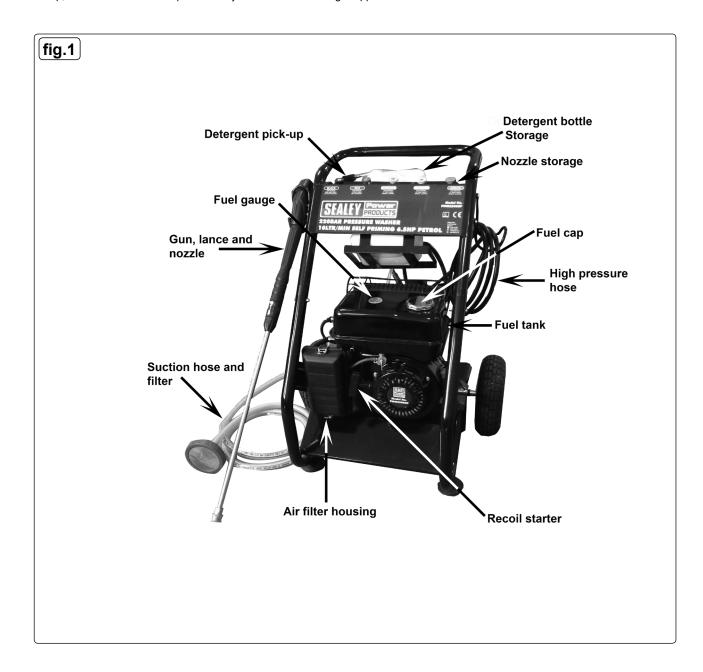
# **ENGINE SAFETY**

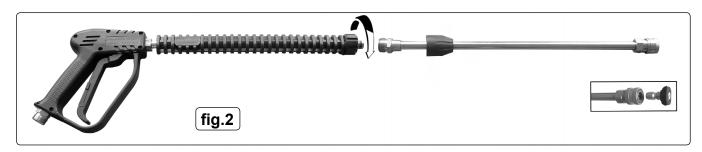
- □ WARNING! Check the engine oil level before each startup. Only use an approved oil and never operate the engine with insufficient oil.
- WARNING! DO NOT touch spark plug or plug lead whilst the engine is running; severe, potentially fatal, electric shock may result.
- ✓ For safety instructions relative to the maintenance and use of the petrol engine refer to the engine instruction manual.
- ✓ Ensure that only the correct fuel type and grade is used.
- X DO NOT check ignition system by removing the spark plug or spark plug lead. Use specific tester or contact service agent.
- **X** DO NOT operate the washer in an enclosed area as the motor exhaust fumes are a health hazard.
- **X DO NOT** use the washer with flammable, toxic or corrosive liquids.
- X DO NOT leave the washer unattended whilst operating, and DO NOT remove the fuel cap whilst the engine is running.
- X DO NOT refuel the engine whilst it is running. Stop the engine and allow it to cool for two minutes before attempting to refuel.
- **X DO NOT** refuel in a closed or poorly ventilated environment as there is a danger of explosion or fire. Refuel out doors.
- X DO NOT smoke or place the washer near any naked flames whilst re-fuelling.
- X DO NOT operate washer if there is a fuel leak. Move the unit and avoid using until the leak has been fixed and the machine is dry.
- X DO NOT start the engine if there are any flammable materials near the exhaust system or in the path of the exhaust gases.
- **X** DO NOT block the engine ventilation grilles.
- ✓ Ensure engine fuel is stored in an approved container.
- ✓ For long term storage ensure the fuel is drained and that the washer is adequately protected against frost.
- **X** DO NOT operate the engine with either the silencer or air filter removed.
- X DO NOT touch the engine during or after use. To avoid burns allow it to cool before handling.
- WARNING! The warnings referred to in this guide cannot cover all possible conditions and situations that may occur. It must be understood that common sense and caution are factors which cannot be built into this product, but must be applied by the operator.

## 2. SPECIFICATION & INTRODUCTION

MODEL NO:	Engine Type: 4 Stroke, Single Cylinder, Petrol
Manifold Pressure:	Engine Capacity:
Maximum Pressure:	
Flow Rate:	Starting:
Hose Length:	Fuel Tank:
Nozzles:5	Fuel Consumption:
Maximum Inlet Temperature:	Weight:
·	Noise Level: 109dB(A)

Petrol powered pressure washer with recoil starting. Ideal for commercial applications: with 5mtr pressure hose, 1mtr gun and lance and adjustable nozzle. Self priming pump makes this unit fully portable and can be used where no mains pressure is available. Can draw clean water from water butts and tanks etc. Low-pressure liquid detergent injection system with provision for detergent bottle stowage. Safety latch on trigger and automatic low-oil engine shutdown reduce risks of misuse and equipment damage. Unit stands on four legs, two with sucker feet to prevent creep, and tilts back onto two pneumatic tyred wheels for moving. Supplied with tools and full Instructions.





# 3. ASSEMBLY / PRE-OPERATION

Unpack contents and check to ensure all parts are in good condition. If you experience any problems contact your dealer immediately.

#### 3.1. ASSEMBLY. (See fig.1.)

- 3.1.1. Screw together the two halves of the lance as shown in fig.2.
- 3.1.2. Select an appropriate nozzle from the nozzle stowage area. Pull back the spring loaded sleeve at the end of the lance and insert the nozzle. Let go of the sleeve and check that the nozzle is firmly gripped in the fitting. The nozzle selection is colour coded and offers the following options.

BLACK
RED
Low pressure wide angle spray for use with detergent.
High pressure, 0° degree spray, Very Aggressive. Use with extreme caution to prevent damage to the surface

being cleaned or injury to persons or animals.

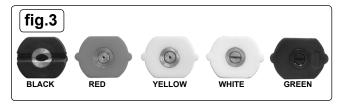
YELLOW High pressure, 15° Spray angle, normal cleaning,

provides a wide coverage and powerful water stream.

WHITE High pressure, 40° Spray angle, normal cleaning and

rinsing, provides a less powerful stream of water and is suitable for most general cleaning jobs.

GREEN High Pressure, 25° Spray angle, normal cleaning.



- 3.1.3. To attach the high pressure hose to the water inlet on the gun, push it into the inlet on the gun until it is fully seated and tighten as shown in figs.4 & 5.
- 3.1.4. Attach the other end of the high pressure hose to the pump outlet as shown in fig.6. Push the end of the hose into the pump outlet until it is fully seated and then tighten to secure.
- 3.1.5. Connect either a mains water supply hose or the suction hose to the pump inlet as shown in fig.6. USE COLD WATER ONLY.
- **Note:** The water supply hose must be reinforced and have an internal diameter of 13mm (1/2"). The minimum water supply rate must be at least equal to the washer flow rate.

The suction pipe may require priming if drawing water from a level lower than the pump.

# 3.2. DETERGENT DELIVERY.

- 3.2.1. Attach the BLACK low pressure nozzle to the end of the lance. Remove the cap from a bottle of detergent and place the bottle in the detergent holder.
- 3.2.2. On the top of the pump outlet is a brass suction injection fitting. Push the detergent input pipe onto the fitting (fig.6) and place the filter on the other end into the container of detergent ensuring that it goes all the way to the bottom. When used with the low pressure black nozzle detergent will be drawn from the container by suctionic action and will mix automatically with the water from the pump. Use Sealey General Purpose Detergent, AK130 (25ltr) or AK131 (5ltr). Traffic Film Remover is also available, AK132 (25ltr) or AK133 (5ltr).

#### 3.3. ENGINE LUBRICATION.

3.3.1. THE PRESSURE WASHER ENGINE IS SHIPPED FROM THE FACTORY WITHOUT OIL. DO NOT ATTEMPT TO START THE ENGINE BEFORE THE SUMP HAS BEEN FILLED WITH THE CORRECT AMOUNT OF OIL. Refer to the section 7.2.

# 3.4. FUEL.

3.4.1. Fill the tank with fresh unleaded petrol fuel. Keep fuel level below the fuel filter which sits in the neck of the tank.

#### 3.5. PUMP.

3.5.1. The pump is supplied empty of oil. Fill with 400ml of 15W-40 oil before using the unit. The combined oil filler cap and dipstick is on top of the pump. The oil level can also be seen in the sight glass on the end of the pump.

# 3.6. SITING OF UNIT.

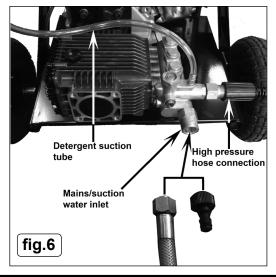
3.6.1. Ideally the unit should be used on level ground. Where this is not possible the unit should not be inclined more than 20° in any one direction.

#### 3.7. RUNNING IN THE ENGINE.

3.7.1. For the first 20 hours of operation the unit should not be placed under heavy load. After the first 20 hours change the oil.







# 4. SAFETY FEATURES

# 4.1. THERMAL RELIEF VALVE.

4.1.1. A thermal relief valve is fitted to protect the machine from overheating if the gun remains closed for an extended period of time or if the nozzle becomes blocked. To prolong the life of the washer every effort should be made to avoid overheating. It is recommended that if the unit is not going to be used for two minutes or more it should be switched off.

### 4.2. TRIGGER LOCK.

4.2.1. To prevent accidental starting of the pressure washer the trigger can be locked as shown in fig.4 by hinging out the lever built into the back of the trigger and pressing it until it locks into position. To release the locking lever flex the trigger handle forwards and flip the lever out and fold it back into the trigger. The trigger should be locked whenever the washer is not in use.

### 4.3. LOW OIL SHUTDOWN.

4.3.1. The engine on this washer is equipped with a low oil shutdown feature which stops the engine if the oil drops below a specified level. Should the engine cut out, first check that it is standing on a level surface. If the oil level is still low top it up as described in Section 7.2.

### 5. OPERATION

- ☐ WARNING! THE PRESSURE WASHER ENGINE IS SHIPPED FROM THE FACTORY WITHOUT OIL.
- □ WARNING! RISK OF FLUID INJECTION. This washer operates at fluid pressures and velocities high enough to penetrate human and animal flesh. If there is an occurrence of fluid injection seek medical help immediately.
- WARNING! Ensure you read, understand and apply Section 1 safety instructions.
- ☐ WARNING! Dry running can seriously damage the unit.
- □ WARNING! DO NOT leave motor running for more than 2 minutes without operating the trigger, as temperature/pressure increase may damage sealing system.

#### 5.1. MANUAL STARTING PROCEDURE.

- 5.1.1. Check engine oil level before each use.
- 5.1.2. Check that the mains water feed hose is laid straight, and then fully open the water tap. Check to ensure there are no leaks from hoses or connections.
- 5.1.3. Release gun trigger safety catch and depress trigger to allow any air left in the system to escape, hold until there is a steady flow of water coming out and release the trigger.
- 5.1.4. Rotate the engine switch clockwise to the ON position. See fig.8.
- 5.1.5. Fig.7 shows the fuel tap in the OFF position. Push the fuel tap up to the right to the open position.
- 5.1.6. If the engine is cold move the choke lever to the left to close the choke.
- 5.1.7. Move the throttle lever slightly to the left, fig.7 shows the throttle in the full throttle position.
- 5.1.8. Turn the engine switch to the ON position.
- 5.1.9. Take hold of the recoil starter handle (see fig.1) and pull it slowly until you feel resistance, then let it return slowly.
- 5.1.10. Now pull the starting handle hard and fast all the way out. Use two hands if necessary.
- 5.1.11. If the engine doesn't start repeat the process from 5.1.9.
- 5.1.12. Once started adjust throttle valve to the required setting and return the choke to the open position when the engine is warm.

#### 5.2. CLEANING

- 5.2.1. Only apply detergent using the BLACK low pressure nozzle.
- 5.2.2. Depress the trigger to apply the detergent to the *dry surface* which is to be cleaned.
  - Vertical surfaces should be cleaned from the bottom upwards.
- 5.2.3.. When detergent application is complete remove the syphon tube from the detergent container and place it in a container of clean water. Run the washer at low pressure to purge the gun of detergent.
- 5.2.4. Leave the detergent to act for 1-2 minutes, but **DO NOT** allow the surface to dry.
- 5.2.5. The detergent should be rinsed off using either the YELLOW or WHITE high pressure nozzles depending on the spray angle required. Do not use the RED nozzle as the aggressive spray action may erode the surface being cleaned. Always lock the gun trigger before changing nozzles.
- 5.2.6. Hold the gun firmly with both hands and commence washing with high pressure clean water. When rinsing work from the top to the bottom to avoid streaks.
- Note: Care should be taken when selecting the nozzle for the job in hand. The distance from the nozzle to the surface being cleaned will depend on the condition of that surface. Always start further away and slowly move closer until the level of cleaning required is achieved.

### 5.3. SHUT DOWN PROCEDURE.

- 5.3.1. When cleaning has finished and the unit is no longer required allow the engine to run unloaded for 2 minutes before shutting down.
- 5.3.2. Stop the engine by pushing the throttle lever fully to the right. (See fig.7) and turn the engine switch to the OFF position.
- 5.3.3. Turn off the fuel tap. (See fig.7)
- 5.3.4. Turn off the mains water supply.
- 5.3.5. Discharge residual pressure from the washer by pressing the trigger until no more water comes out of the nozzle.
- 5.3.6. Engage the gun trigger safety catch.
- 5.3.7. In an emergency turn the engine switch to the OFF position.

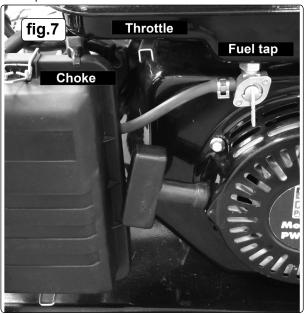
#### ☐ CAUTION!

- a) Avoid sudden bursts of water as this will cause the water pressure to drop and put extreme pressure on the hoses and connections.
- b) If another person is using water from the same supply as the washer, the water pressure will drop and the washer will not operate correctly. Switch the engine off immediately and wait until the pressure is restored.

### 5.4 Using Suction Hose

- **5.**4.1. Connect the suction hose to the pump inlet (fig.6).
- 5.4.2. Put the inlet filter into water supply.
- 5.4.3. Stat the engine and operate as normal.
- 5.4.4. The filter must stay submerged completely.
- 5.4.5. The pump will only self-prime to maximum height between pump and surface of supply (suction head) of 1mtr. Above this height, the pump will not achieve suction.

5.4.5. In case of difficulty in priming the pump, turn engine off and remove the high pressure hose. With suction filter immersed, restart the engine and run until water emerges from the pump outet; stop the engine, reconnect the high pressure hose and resart.

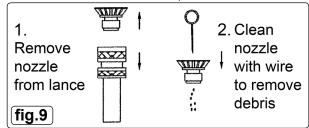




## 6. MAINTENANCE (WASHER)

Maintenance should only be performed with the engine turned off and the unit disconnected from the mains water supply.

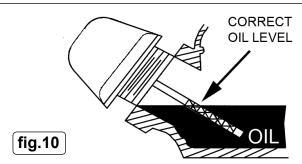
6.1. CLEANING THE NOZZLES: Pull back the brass sleeve on the end of the lance and pull out the nozzle. Clean the nozzle with wire provided (fig 9). If this does not improve the flow from the nozzle it should be replaced.



- 6.2. Check and clean the water inlet filter every 50 operating hours. The filter is moulded into a rubber washer. Unscrew the brass connector from the black fitting on the water inlet on the pump. Push the black fitting backwards which will eject the filter/washer and then clean the filter washer. If the filter is damaged in any way it should be replaced.
- **6.3.** Check and clean the detergent filter at the end of the detergent input tube on a regular basis.
- **6.4. WINTER STORAGE:** Fill the pump with an antifreeze mixture before storing in a frost free, safe, dry area for the winter. Introduce the antifreeze by the following method.
- 6.4.1. Shut off the water supply and disconnect the supply hose. Relieve pressure within the pump by squeezing the gun trigger. Remove the high pressure hose and let all water drain from it. Hold gun/lance with nozzle downwards and pull trigger until all water has drained out.
- 6.4.2. Connect a short length of garden hose to the water inlet and using a funnel pour an antifreeze mixture into it.
- 6.4.3. Pull the recoil starter several times to circulate the antifreeze through the pump. Continue to add antifreeze and pull the recoil until antifreeze is expelled from the pump.

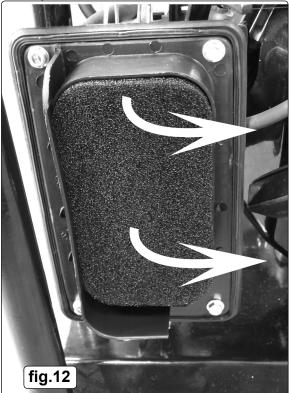
# 7. MAINTENANCE (ENGINE)

7.1 Change engine oil after the first 8 hours of operation. Thereafter, change oil monthly or every 50 hours of operation. Change oil more often if engine is operated under heavy load, or in high ambient air temperatures. During normal operation, partially burned fuel, small particles of metal from the cylinder walls, pistons, bearings and combustion deposits will gradually contaminate the oil. If the oil is not changed regularly, these foreign particles can cause increased friction and a grinding action which shortens the life of the engine. Fresh oil also assists in cooling. Old oil gradually becomes thick and loses its cooling ability as well as its lubricating qualities.



- 7.2 CHECKING THE OIL LEVEL. Ensure the unit is on a level surface.
- 7.2.1.Unscrew the dipstick and wipe it clean of oil. Note that the maximum oil level should be just below the opening of the filler neck.
- 7.2.2 .Check the oil level by seating the dipstick into the hole without screwing it in. See fig.8 above. If there is no oil on the dipstick when it is removed the level is too low and should be topped up immediately with an SAE10W 30 oil.
- 7.2.3 .Top up oil if necessary and recheck level.
- 7.2.4 Screw dipstick fully home to seal oil fill hole. Note: The engine is fitted with a low oil sensor which will automatically shut the engine down in a low oil situation. The sensor may also operate if the unit is not on a level surface.
- **7.3 ENGINE STORAGE.** If the unit is not to be used for more than one month the following procedure should be followed.
- 7.3.1. Top-up engine oil to maximum.
- 7.3.2. Drain petrol from the fuel tank, fuel line, fuel tap and carburettor.
- 7.3.3. Pour one teaspoon of engine oil through the spark plug hole, pull the recoil starter several times and replace the spark plug. Then pull the starter slowly until an increase in pressure is felt indicating that the piston has commenced its compression stroke and leave it in this position. This closes both the intake and exhaust valves and prevents the inside of the cylinder from rusting.
- 7.3.4. Cover the unit and store it in a clean dry place that is well ventilated and away from open flame or sparks.

- 7.4. AIR CLEANER. The air cleaner is situated below the fuel tank (see fig.2. To access the air cleaner elements, unclip the overcentre clips at the top and bottom and remove the black cover to reveal the foam pads as shown in fig.11.
- 7.4.1. Remove the foam pads from the air cleaner housing.
- 7.4.2. Wash the foam pads with a household detergent or a high flash-point solvent and squeeze dry.
- 7.4.3.Refit the two foam pads (coarse pad outermost) into the location and bed down.
- 7.4.4.Replace air filter casing lid and secure with both over-centre clips.





WARNING! Petrol is extremely flammable and potentially explosive. Do not perform maintenance on petrol associated components where there is any source of ignition present such as cigarettes, sparks, naked flame or hot sufaces.

#### 7.5. MAINTENANCE SCHEDULE.

#### 7.5.1 Before each use.

Check engine oil level.

Inspect the unit for evidence of oil and fuel leaks.

7.5.2. After the first month or 20 hours only.

Change the engine oil.

#### 7.5.3. Every 50 hours.

Change the engine oil.

7.5.4. Every 6 months or 100 hours.

Change the engine oil.

Inspect and clean air filter.

Clean the deposit cup.

Clean spark plug and check gap.

### 7.5.5. Every 300 hours.

Replace air cleaner element.

Check valve clearances.

Check idling speed.

Clean spark plug and check gap.

Clean fuel tank fuel filter.

#### GENERAL TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSES	REMEDY
Engine will not start	Low oil sensor has shut down engine	Top up oil level
	Engine Switch not in the ON position	Turn switch ON
	Pressure build up in pump	Operate trigger
Engine is overloaded	Nozzle partially blocked	Clean nozzle
	Excessive pressure build up	Return to Sealey dealer to have reflux valve adjusted
Engine running, but pump not building maximum pressure or has irregular pressure	Mains water turned off or insufficient supply	Turn on mains water or increase supply
	Unit has been stored in freezing temperatures	Thaw out completely including hose, gun and wand
	Water inlet filter clogged	Clean out filter
	Kink in water supply hose	Straighten out hose
	Lance nozzle worn or damaged	Replace nozzle
	Air in pump	Refer to section 5.1 - 5.1.3 and bleed air out of system
No intake of detergent	Injection tube not properly attached to unit	Push tube firmly on to suction nozzle
	Tube cracked or split	Replace tubing
	High pressure nozzle fitted	Fit low pressure nozzle (BLACK)
	Suction nozzle blocked	Clean nozzle
Trigger will not move	Trigger lock engaged	Release trigger lock
Noisy operation	Worn bearings	Return to Sealey dealer for bearing replacement
	Tappet clearances excessive	Return to Sealey dealer for servicing.
	Cavitation in pump	Check inlet hose for correct size or leaks
Rough / pulsating operation with pressure drop	Inlet restriction	Check inlet hose for correct size, blockages or leaks
	Cavitation in pump	Check inlet hose for correct size or leaks
Engine running hot	Wrong grade of oil	Use recommended oil
	Oil too high / low	Adjust oil level to recommended level

(NOTE: This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.



# **Environmental Protection.**

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycle centre and disposed of in a manner which is compatible with the environment.



# WEEE Regulations.

Dispose of this product at the end of its working life in compliance with the EU Directive on Waste Electrical and Electronic Equipment. When the product is no longer required, it must be disposed of in an environmentally protective way. Contact your local solid waste authority for recycling information.

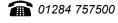
NOTE: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice **IMPORTANT:** No liability is accepted for incorrect use of this product.

WARRANTY: Guarantee is 12 months from purchase date, proof of which will be required for any claim.

INFORMATION: For a copy of our latest catalogue and promotions call us on 01284 757525 and leave your full name and address, including postcode.



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