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PRESSURE WASHER - (Diesel)

SAFETY PRECAUTIONS & WARNINGS

It is in the interests of those operating this equipment, and for the safety of others, that these **SAFETY PRECAUTIONS & WARNINGS** are carefully read and understood before operating this equipment.

PURPOSE

1. This equipment is designed for the cleaning and washing items and structures using a high-pressure water jet.

PERSONAL SAFETY

2. This equipment is designed for operation by an able bodied adult. Anyone with either temporary or permanent disability must seek expert advice before using it. It must not be operated by minors, or by anyone under the influence of drugs or alcohol.
3. If the equipment is not used in a safe, careful and controlled way, personal injury or injury to others may result.
4. This equipment employs the use of diesel, which can cause fire and explosion if not handled in a safe manner.
5. Before attempting to operate this equipment you must familiarise yourself with the equipment, its controls and operating characteristics.
6. Before starting your work, think and plan ahead to ensure you, and others around you, will be working in a safe environment.
7. When using this equipment, it is recommended that the following items of Personal Protective Equipment (PPE) be worn:
 - Impact resistant goggles to EN166-B or BS2092, grade 1 protection.
 - Ear defenders providing protection up to 88dB(A).
 - Waterproof coveralls.
 - Waterproof footwear.
 - Appropriate waterproof gloves.

NOTE: Other types of work, or environment, may require a higher level of PPE.

OPERATING AREA SAFETY

WARNING: If used indoors or in confined spaces this equipment could cause fatal carbon monoxide poisoning. Never use it in domestic premises and if used in other indoor situations you must ensure you first assess its suitability and the ventilation required for safe use. Mechanical extraction ventilation will be required in almost every case.

8. Before commencing work, ensure that the area you are to operate the equipment in is a safe environment. Erect safety barriers and warning signs as necessary.
9. Make sure that the work area is clear of obstructions and hazards (projections, cables, pipes, etc.).
10. Never direct the spray gun at yourself, other people or animals.
11. Before commencing work, warn others who may be working in the vicinity of the equipment, to keep clear. If possible place safety barriers around your work area.

12. Never spray water onto electrical items as this may cause an electrical short circuit or a fatal shock.
13. Anybody who is working near to you will also need to wear the appropriate PPE.
14. Protect others from noise and high-pressure water spray.
15. Do not use this equipment where there is a danger of igniting fumes from petrol, or gas cylinders.

BEFORE OPERATING THE EQUIPMENT

SAFETY CHECKS

16. Visually inspect the equipment and all its accessories (machine, spray gun, hoses, safety barriers, etc.) for serviceability (completeness, signs of damage, undue wear, etc.). Do not use the equipment if found damaged or worn - contact the hire company immediately.
17. Before attempting to operate the equipment, familiarise yourself with the equipments controls. Make sure you understand their purpose and function.
18. Sight the equipment as far away as possible from any electricity supply.
19. To reduce the risk from breathing hazardous toxic fumes, do not operate this equipment in confined spaces without adequate ventilation.
20. Ensure good drainage for the wastewater.
21. Before you start the equipment, you must know how to **STOP** it in an emergency.

OPERATING THE EQUIPMENT

USING THE EQUIPMENT

22. Check the water tank level, top-up as necessary with clean water. Use filters to maintain clean water supply.
23. If using detergents or other chemicals, follow the manufacturers recommendations.
24. Ensure all hose connections are tight and secure.
25. Lay out hoses in a safe manner to prevent kinks and sharp bends.
26. Always use both hands to hold and control the spray gun.
27. Keep all electrical cables clear of the spray gun. Use extension hoses to increase the distance between the equipment and the spray gun.
28. Be aware of the reactive forces of the spray gun lance when the equipment is switched-on.
29. Never attempt to disconnect hoses whilst the equipment is switched-on, or when pressure is still present in the spray gun lance.
30. On completion of task, switch-off the equipment at the mains supply and operate the spray gun to release any pressure. Turn-off the supply of detergent or chemicals.
31. Stop working and switch-off the equipment if someone approaches you.
32. Stop the equipment and un-plug it before moving it or making any adjustments.

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STARTING AND STOPPING THE ENGINE

Note: Below is a brief description of **STARTING** procedure for the majority of pressure washers. If the hire company has provided dedicated instructions for your type of machine – follows them.

ELECTRIC START

33. Ensure the hand brake has been fully applied; the gear lever is in '**NEUTRAL**' and that the '**STOP CONTROL**' knob is pushed fully home.
34. Rotate the ignition key part way to engage the '**COLD START**' device and hold it in that position for 20 seconds, then rotate the key further to start the equipment whilst keeping the throttle '**OPEN**'.
35. If the equipment fails to start after a few seconds, repeat the procedure at step 34 (above) again, maintaining the key at the '**COLD START**' position a few seconds longer.

Note: If the equipment has previously been running, there is no requirement to operate the '**COLD START**' device.

36. To stop the engine, pull out the '**STOP CONTROL**' knob, never use the '**DECOMPRESSION**' lever and remove the ignition key.

MANUAL START

37. Check both the engine fuel (diesel only) and oil levels.
38. Move the '**STOP**' control to the '**RUN**' position.
39. Move the throttle lever to the '**IDLE**' position.
40. Fit the starting handle to the shaft; turn it anti-clockwise to engage the ratchet mechanism. Check also that the handle slides on and off the shaft easily.
41. Move the decompression valve lever into the '**DECOMPRESSION**' position.
42. If the equipment has been fitted with a '**COLD START**' button, press it in when starting from cold.
43. Grasp the starting handle firmly in one hand, BUT DO NOT WRAP YOUR THUMB AROUND THE HANDLE, keep it in line and on the same side as your remaining fingers. Failure to do this, should the engine 'kick-back', may result in serious injury to your thumb.
44. Crank the engine vigorously before lowering the '**DECOMPRESSION**' lever smoothly. Should the engine fail to start, repeat the actions at step from 34 to 40.
45. Once the engine is running, slide the starting handle off the shaft.
46. Never stop the engine using the '**DECOMPRESSION**' lever. This may damage the engine and will be regarded as misuse by the hire company. Only use the proper '**RUN/STOP**' control to stop the engine.

REFUELLING

47. Refuel with diesel only.
48. The engine must not be running whilst refuelling. Warm engines must be allowed to cool down first.
49. Do not smoke whilst refuelling.
50. Clean the area around the fuel filler cap, then, remove it.

SECURITY AND MAINTENANCE

51. Visually check the condition of the equipment at the start of each day.
52. If the equipment operates erratically, or incorrectly, do not use and do not attempt to repair it. Inform the hire company.
53. Periodically clean the equipment to ensure it is free from dust, dirt and other debris.
54. Protect the water in the tank and hoses from freezing during very cold weather. Drain water if left overnight.
55. When the equipment is left unattended for long periods (i.e. overnight), ensure it is made secure to prevent unauthorised use or loss.

COLLECTION & PICK-UP

56. For safety reasons this equipment requires you to use a **LORRY, VAN** or an **ESTATE**.

