



CUT-OFF SAW ABRASIVE SAW - (Petrol)

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 type of saw is designed for cutting concrete, masonry, asphalt, steel, cast iron or similar materials using the appropriate abrasive or diamond wheel.

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 petrol, which can cause fire and explosion if not handled in a safe manner.
5. Cutting paving slabs, kerb stones, or other concrete or stone materials may produce a large amount of very fine dust known as; Respirable Crystalline Silica (RCS). Exposure to RCS can cause serious health problems when breathed into the lungs. See: **RCS SAFETY** below.
6. Before attempting to operate this equipment you must familiarise yourself with the equipment, its controls and operating characteristics.
7. Vibration from this equipment may be at a level that could be hazardous to the user, if operated for extended periods. Always wear gloves and ensure hands are warm before starting work and they remain warm and dry. Do not grasp the equipment too tightly, only sufficient to safely control the machine. If you experience tingling, numbness or loss of strength in the fingers – stop working immediately. Take frequent breaks and exercise the hands and arms to minimise risks.
8. Before starting your work, think and plan ahead to ensure you, and others around you, will be working in a safe environment.
9. When using this equipment, it is recommended that the following items of Personal Protective Equipment (PPE) be worn:
 - **Safety boots to EN345 or BS1870/4972.**
 - **Ear defenders giving protection for levels up to 98dB(A).**
 - **Impact resistant goggles to EN166-B or BS2092 protection.**
 - **Dust mask to provide RPE20 protection, or a filtering face piece mask to FFP3 standard.**
 - **Appropriate industrial gloves.**

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

RCS SAFETY

10. Operators cutting paving slabs, kerb stones or other concrete and stone materials with this type of equipment must use the most effective measures to minimise the escape and spread of RCS as follows:
 - **Ensure the attached water tank always contains sufficient water for the task being undertaken.**

- Ensure sufficient and regulated water flow is supplied to the material being cut.
- Where possible use a diamond tipped cutting blade rather than an abrasive one. Diamond tipped blades cut faster and therefore reduce exposure time to RCS.
- Change cutting blades frequently. Don't allow cutting blades to wear down or become blunt.
- Always wear a correctly fitted and serviceable dust/face mask of the correct type.

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.

11. 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.
12. Make sure that the work area is clear of obstructions and hazards (projections, cables, pipes, etc.).
13. Before commencing work, ensure that there are no buried electrical cables, gas or water pipes in the area you are going to cut.
14. 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.
15. Anybody who is working near to you will also need to wear the appropriate PPE.
16. Protect others from noise, dust and debris.
17. Do not use this equipment where there is a danger of igniting fumes from petrol, or gas cylinders.

BEFORE OPERATING THE EQUIPMENT

SAFETY CHECKS

18. Visually inspect the equipment and all its accessories (engine, cutters, 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.
19. Before attempting to operate the equipment, familiarise yourself with the equipments controls. Make sure you understand their purpose and function.
20. Do not use this equipment to cut asbestos or materials containing asbestos.
21. Do not attempt to operate this equipment in confined or enclosed spaces without adequate ventilation due to the risk of inhaling toxic exhaust fumes, which can prove fatal.
22. Before you start the equipment, you must know how to **STOP** it in an emergency.

CONTINUED ON OVERLEAF >>>

OPERATING THE EQUIPMENT

CUTTING WHEEL SAFETY






23. Selection of the correct type of cutting wheel is vitally important. Select as follows:
- **Must be the correct type of wheel for the material to be cut.**
 - **The wheel speed (marked on the side of the wheel) must be greater than the spindle speed of the machine (as indicated on the machine).**
 - **The bore size of diamond wheels must be the same as the bore size of the machine.**
24. Cutting wheels must only be fitted or changed by those trained and experienced to do so.
25. Always use sharp blades and the appropriate ones for the material being cut.

USING THE EQUIPMENT

26. Always both hands to hold and control the saw.
27. Check and adjust the pointer arm. It can be swung out of the way when not in use.
28. Ensure the wheel guard is correctly in place, correctly adjusted and secure.
29. Where possible, securely support the work to be cut in a vice.
30. Be aware of the reactive force of the machine on contact with the work and also at completion of cutting. Practice on scrap material first.
31. Do not attempt to use this equipment higher than shoulder height.
32. The saw edge of the cutting wheel must only be used for cutting. Using the side of the wheel may cause it to shatter.
33. Always ensure the saw is running its optimum running speed before attempting to cut.
34. Only cut in straight lines, do not attempt to cut curves or round corners.
35. Do not allow the machine to labour, reduce depth of cut and make a series of passes.
36. Stop working and switch-off the machine if someone approaches you.

STARTING THE EQUIPMENT FROM 'COLD'


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

37. Depress the safety interlock and the throttle control simultaneously and pull back the control lever to the '**STARTING**' position.
38. Release the throttle, control lever and the safety interlock.
39. Move the choke lever to the  position (when the engine is warm move the choke lever to the  position).
40. Set the decompression valve, if fitted. The valve requires resetting each time the engine is started.
41. Place the saw on firm level ground with the cutting wheel clear of the ground.
42. Hold the front hand guard firmly with the left hand, with the right hand take-up the slack of the starter handle cord until you feel the starter has engaged with the engine. Now pull firmly on the starting handle. Once the engine has started, allow the starter cord to retract.
43. Once the engine is running, squeeze and release the throttle control. The control lever will now revert back to the  position, the engine will now 'idle'. Set the choke lever to .
44. Should the engine fail to start, re-set the choke lever to the  position,

set the decompression valve and pull the starter handle again.

45. In cold weather it may be necessary to open-up the throttle lever gently to allow the engine to warm-up gradually before commencing work.

STARTING THE CUT-OFF SAW WHEN 'HOT'

46. Depress the safety interlock and the throttle control simultaneously and pull back the control lever to the '**STARTING**' position.
47. Release the throttle, control lever and the safety interlock, the throttle is now in a position ready to start.
48. Set the choke lever to the  position.
49. Now follow the instruction from step 36 to 41.

REFUELLING

50. This is a two-stroke engine; refuel with a mixture of 25 measures of petrol and one measure of two-stroke oil (unless directed otherwise). The petrol and oil must be thoroughly mixed before pouring into fuel tank.
51. The engine must not be running whilst refuelling. Warm engines must be allowed to cool down first.
52. Do not smoke whilst refuelling. Move chainsaw away from work area before re-fuelling.
53. Clean the area around the fuel filler cap, then remove it.
54. Using a clean funnel, pour mixture into the fuel tank. Care must be taken not to overfill or spill. Fuel spilt on the engine must be wiped dry, that spilt on the ground must be removed and the area covered with sand or earth. Fuel soaked clothes must be removed.
55. Replace the fuel cap securely.

SECURITY AND MAINTENANCE

56. Visually check the condition of the equipment at the start of each day.
57. If the equipment operates erratically, or incorrectly, do not use and do not attempt to repair it. Inform the hire company.
58. Periodically clean the equipment to ensure it is free from dust, dirt and other debris.
59. 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

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

