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# RECIPROCATING SAW (110/230V)

## 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 wood, thin sheet metal, laminates, wallboards and thin gauge pipes using the appropriate cutting blade.

## 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. Before attempting to operate this equipment you must familiarise yourself with the equipment, its controls and operating characteristics.
5. Before starting your work, think and plan ahead to ensure you, and others around you, will be working in a safe environment.
6. When using this equipment, it is recommended that the following items of Personal Protective Equipment (PPE) be worn:
  - Ear defenders providing protection up to 95dB(A).
  - Dust mask to a minimum protection of EN149ffp2(s).
  - Impact resistant goggles to EN166-B or BS2092, Grade 1 protection.
  - An RCD if employing 230v mains supply electricity.
  - Appropriate industrial gloves.

**Note:** Other types of work, or environment, may require a higher level of PPE

7. With regard to electrical safety implications when using this equipment, see the section on 'ELECTRICAL SAFETY' below.

## ELECTRICAL SAFETY

8. The operating voltage of this equipment may be either 110v (yellow industrial plug connector), or 230v (square pin or blue plug connector).

### 110v RECIPROCATING SAWS (YELLOW PLUG)

9. Only use a portable transformer and only plug the transformer directly into the 230v socket.
10. Only suitably rated, heavy-duty 110v extension cable, not longer than 50m (160ft), must be used between the transformer and the equipment. Do not use 230v extension cables.
11. When routing the extension cable, avoid immersion in liquids and trapping the cable in windows, doorways and other areas that could cause damage to the cable. Avoid laying the cable in areas that are subject to site traffic. Ensure all connections are kept dry.

### 230v RECIPROCATING SAWS (SQUARE PIN OR BLUE PLUG)

12. To safeguard against electrical shock, always connect the equipment into a residual current device (RCD) that in turn is connected to a 230v socket.
13. Before using the equipment, press the 'RED' test button on the RCD to ensure that it is working. Re-set the RCD according to the instructions provided.
14. Only suitably rated, heavy-duty 230v extension cable, not longer than 50m (160ft), must be used between the mains (RCD) and the equipment.
15. When routing the extension cable, avoid immersion in liquids and trapping the cable in windows, doorways and other areas that could cause damage to the cable. Avoid laying the cable in areas that are subject to site traffic. Ensure all connections are kept dry.

## OPERATING AREA SAFETY

16. 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.
17. Make sure that the work area is clear of obstructions and hazards (projections, cables, pipes etc.).
18. 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.
19. Anybody who is working near to you will also need to wear the appropriate PPE.
20. Protect others from noise, dust and debris.
21. Do not use this equipment in the rain or where it is liable to become wet.
22. Do not use this equipment where there is a danger of igniting fumes from petrol, or gas cylinders.

## BEFORE OPERATING THE EQUIPMENT

### SAFETY CHECKS

23. Visually inspect the equipment and all its accessories (saw blade, cables, plugs, 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.
24. Before attempting to operate the equipment, familiarise yourself with the equipments controls. Make sure you understand their purpose and function.
25. Do not use this equipment to cut asbestos or materials containing asbestos.
26. Before you start the equipment, you must know how to **STOP** it in an emergency.

## OPERATING THE EQUIPMENT

### USING THE EQUIPMENT

27. Where possible, secure the material to be cut in a vice, or if not, ensure it is securely clamped.
28. Select the appropriate cutting blade for the material to be cut.

29. Ensure the blade is securely retained in the jigsaw.
30. Ensure the material to be cut is free from nails, screws, etc.
31. Always use both hands to hold and control the equipment when cutting.
32. Ensure ventilation vents on the equipment are kept clear (dust, dirt, etc.) and do not cover with hands when using the equipment.
33. Take care to keep the equipments connecting cable clear of the cutting blade.
34. Always ensure the equipment is running at its optimum running speed before attempting to cut.
35. Be aware that reciprocating saws cut on the backstroke and have the tendency to pull the saw blade into the work.
36. Be aware of the reactive forces when the cutting blade first contacts the material being cut.
37. Use a lubricant, where appropriate, to assist cutting.
38. Do not allow the machine to labour, reduce the cutting pressure.
39. Always allow the blade to stop reciprocating before withdrawing it from the work piece.
40. Before making any adjustments to the equipment or changing the saw blade, switch the equipment '**OFF**' and unplug it from the electricity supply.
41. Stop working and switch-off the machine if someone approaches you.
42. After switching the machine '**OFF**', allow the saw blade to stop reciprocating before placing it down on any surface.

## **SECURITY AND MAINTENANCE**

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43. Visually check the condition of the equipment at the start of each day.
44. If the equipment operates erratically, or incorrectly, do not use and do not attempt to repair it. Inform the hire company.
45. Periodically clean the equipment (especially around the vent slots) to ensure it is free from dust, dirt and other debris.
46. Unplug the equipment from the electricity supply when leaving it unattended for any length of time.
47. 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**

48. For safety reasons this equipment requires you to use a **CAR**.

