



Using the Arc Welder

1. Wear your protective equipment especially your welding helmet.
2. Do not look directly at the welding arc, it can cause painful inflammation that may last for some time. It may cause permanent damage to the eye.
3. Take care to avoid an electric shock from the welding cables.
4. Do not work in damp or wet conditions.
5. Check that the welding cables are connected properly. Switch off if you need to make any adjustments including changing rods or welding current.
6. Uncoil the cables completely. Make a good earth connection on your workpiece close to the part you will weld.
7. Always put down your welding rod on an insulated surface. If it touches the workpiece or earth, it could strike an arc.
8. Wear goggles to protect your eyes when chipping the slag off.
9. The welder may switch itself off if it is overloaded. Allow it to cool down before restarting. If this happens repeatedly check with your electrician or the hire company.
10. Remember any welding you do will remain hot for some time. Make sure none touches it. Do not cool it with water.
11. Switch off before leaving the welding machine unattended.
12. If your equipment does not work properly, do not attempt to repair it. Contact the hire company.

Please keep this leaflet safely as it may be required for future reference

Arc Welder

The rules and procedures in force where people are at work may require the person responsible for this equipment to carry out a specific risk assessment.

It is important to read this entire leaflet BEFORE using the Arc Welder

1. Plan your work and think ahead to make sure you will always be working safely.
2. Electricity can be hazardous and must always be used with great care.
3. The glare produced by the electric arc during welding is harmful to the eyes and skin.
4. This welder is designed to weld metals like iron and steel. It will not weld non-ferrous metals.
5. The action of this arc welder can cause injury or damage if the machine is not used in a careful and controlled way. It is quite heavy, take care moving it.
6. If you have not used an arc welder before, practice welding some scrap metal before you start on the main task.
7. You must have at least the following items of personal protective equipment:
 - Dust mask – a minimum of EN149 FFP3(s) protection;
 - Welding mask: EN166/EN169/EN175 or BS679/1542;
 - Impact resistant goggles: EN166 – B or BS2092 grade 1;
 - Gloves.
 RCD if using a 230 volt (mains) supply.
8. This machine must not be used by minors, or by anyone under the influence of drugs or alcohol.
9. This arc welder is designed for operation by an able bodied adult. Anyone with either temporary or permanent disability must seek expert advice before using it.



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1. This welder is designed to operate from 230 volts supply.
2. Use a residual current device ("rcd") plugged directly into the 230volt socket. Plug your machine into the rcd. This will help to protect you against electric shock if the cable or machine get damaged.
3. Use the "TEST" button to check that the rcd is working each time you use it. Reset the rcd according to the instructions supplied with it.
4. If you need an extension cable, follow any special instructions given by the hire company. If the company have not given any special instructions, you should only use a suitably rated heavy duty one, not longer than 50 metres (160 feet). Plug it directly into the rcd.
5. Lay it out carefully avoiding liquids, sharp edges, doorways or windows where it might be trapped, and stop it.
6. Make sure that any extension cable connections are dry and safe.

ARC WELDER



1. Check your welder, and all equipment. Do not use anything found damaged contact the hire company.
2. Check that the plug on your machine matches your supply. Do not try to force connections or improvise them. This machine is designed to run directly from 230v mains: it will be fitted, or a blue industrial plug.
3. Keep this welding machine out of the rain; do not let it get wet.
4. This machine will get hot in use. Do not cover the air vents in the case. Ensure there is adequate air flow.
5. Make sure that you understand all of the controls. Before you switch the welder on, you must know how to stop it.
7. Remove any watches or rings before you start. The action of the welding current may make them hot.

ELECTRICAL SAFETY

Before Starting Work...



WORK AREA

1. Do not use this welder where there is a danger of explosion. It will ignite fumes from petrol, or gas cylinders.
2. Make sure that the area is clear and safe and that no-one is near to you or could distract you.
3. Protect other people from the glare from the arc; use a welding booth or screens. Warn others to keep away, put up a warning sign.
4. The hot sparks could start a fire; check there is nothing nearby that would burn easily.
5. You must not weld a petrol tank or anything that has contained flammable liquid or gas - it is likely to explode.
6. Check that there are no fuel lines or flammable materials near the area you are going to weld.
7. The following items of personal protective equipment (PPE) are the minimum that should be worn whenever you use this machine. Particular jobs or environments may require a higher level of protection.

OPERATORS

1. You must wear impact resistant goggles when you are chipping the slag off the workpiece.
3. You will need to wear an appropriate dust mask with a minimum of EN149 FFP3(s) for protection against hazardous fumes.
4. You must wear a welding mask when using the welder.
5. The glare and heat from the arc, and the sparks, can burn your skin, wear canvas gloves, cotton overalls and safety boots or strong shoes. Avoid wearing rubber or nylon based clothing because it burns easily.
6. Anybody who is working near to you will also be wearing appropriate personal protective equipment.
7. Remove any watches or rings before you start. The action of the welding current may make them hot.



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