

Betore Starting Work.

For guidance on managing

construction health risks go to

www.hse.gov.uk/construction

Using the Arc Welder

Check that the welding cables are connected properly. Switch off if any

Uncoil cables completely. A good earth connection must be made on the

Welding rods should always be put down on an insulated surface. If it touches

The welder may switch itself off if it is overloaded. It should be allowed to cool

down before re-starting. If this happens repeatedly check with an electrician or

Remember any welding will remain hot for some time. Make sure no-one touches

10. The engine should be stopped before leaving the welding machine unattended.

11. If the equipment does not work properly operators should not attempt to repair it

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

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Goggles must be worn to protect the eves when chipping the slag off.

adjustments need to be made including changing rods or the welding current.

Wear your protective equipment especially your welding helmet

Work must not be carried out in damp or wet conditions.

workpiece close to the part to be welded.

the workpiece or earth, it could strike an arc.

it. It should not be cooled with water.

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2. Close the throttle.

1. Turn the fuel tap off.

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STOPPING THE ENGINE

start without using the choke

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3. Switch the ignition switch to OFF.

Follow the same procedure as for a cold

when the engine has warmed up.

e. The choke should be turned off

5. The cord should be guided back into place so that it recoils correctly.

4. The starter handle should be pulled slowly until it is evident that the starter has engaged with the engine, it should then be pulled quickly and strongly. It should not be pulled too fair or it may break.

Make sure that the machine is held firmly so it will not move when the starter is pulled.

Turn the fuel tap on, close the choke

All the caps should be replaced to a properly, and the fuel cans moved to a

should be changed straight away.

10. If any fuel is spilled on clothes they

If any fuel is spilled on the ground, it should be wiped up or covered with

machine. The fuel soaked cloth should be disposed of carefully.

Spilled fuel should be wiped off the

refueling. Operators should take care not to spill any fuel on themselves or the machine.

and switch ignition to ON.

1. Check the fuel and oil levels.

STARTING THE ENGINE

STARTING FROM COLD

safe, cool place.

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contact the hire company.

Care must be taken to avoid electric shock from the welding cables.

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Wix the petrol and oil by shaking the

should be cleaned to prevent dirt

The filler cap and area around it

moved away from the work area.

4. If possible the machine should be

The engine should be stopped and allowed to cool down.

measures of two stroke oil to 25 measures of petrol (40ml per litre)

instructions on how much oil to use these must be followed. Otherwise 1

A fresh mixture of two stroke engine the stroke of two strokes in the the beloads bebrord event (metroco ening the strokes) and the strokes of the strokes o

starting the machine it must be known

Operators must make sure that they understand all of the controls. Before

air vents in the case should not be covered. Ensure there is an

This machine will get hot in use. The

out of the rain - do not allow it to get The welding machine must be kept

talling into the fuel tank.

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No smoking.

uow to stop it.

adequate air flow.

BEFUELLING

covered.

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11.

arc welder

with great care.

cause a fire or explosion.

harmful to the eyes and skin.

must be taken when moving it.

mail@hae.org.uk www.hae.org.uk

use anything found damaged contact the hire company.

Check the welder, engine, welding cables, and all equipment. Do not

removed before starting work. The action of the welding current may

also need to wear appropriate

Anybody who is working nearby will

worn. Rubber or nylon based clothing should be avoided because

safety boots or strong shoes must be

the sparks, can burn the skin, canvas gloves, cotton overalls and

The glare and heat from the arc, and

A welding mask must be worn when

must be worn if the work produces

minimum of EN149 FFP3(s) protection)

An appropriate dust mask (with a

worn when chipping slag off the

Impact resistant goggles must be

protection up to this level as a

This equipment is likely to cause noise levels up to 95 dB(A) – appropriate ear

Watches and rings should

personal protective equipment.

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be carried out safely.

Gloves.

drugs or alcohol.

steel. It will not weld non-ferrous metals.

scrap metal before starting on the main task.

Dust mask - a minimum of EN149 FFP3(s) protection;

Impact resistant goggles: EN166 - B or BS2092 grade 1;

Ear muffs or plugs giving protection for levels up to 94 dB(A): Welding mask: EN166/EN169/EN175 or BS679/1542;

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ARC WELDER

make them hot.

It purns easily.

using the welder.

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workpiece.

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MORK AREA

- fumes from petrol, or gas cylinders. Do not use this welder where there is a danger of explosion. It will ignite 1
- Mechanical extraction ventilation will almost always be required. its another indoor situations it is notatina of the sum of the set indoor set set is the set of the set is the set of the carbon monoxide poisoning. Never use it in domestic premises and only eoulined spaces could cause Using this equipment indoors or in .S
- Make sure that the area is clear and safe and that no-one is nearby who 31
- and glare from the arc, a welding booth or screens should be used. Others should be warned to keep Protect other people from the noise, ·t could cause a distraction.
- The hot sparks could start a fire; **'**G away, warning signs must be put up.
- wonld burn easily. sck there is nothing nearby that
- Operators must not weld petrol tanks ·9
- exbiode. or anything that has contained flammable liquid or gas – it is likely to
- Check there are no fuel lines or -2
- flammable materials where welding
- is doing to take place.

Particular jobs or environments may require a higher level of protection.

whenever this machine is used.

protective equipment (ppe) are the minimum

1. The following items of personal

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1006 Safety Guidance

It is important to read this entire leaflet before using the

Petrol is highly flammable. Care must be taken not to

Electricity can be hazardous and must always be used

The glare produced by the electric arc during welding is

This welder is designed to weld materials like iron and

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

This 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, care

If operators have not used an arc welder before, they should practice welding some

The work must be thought out and planned ahead to make sure that it will always

The following items of personal protective equipment must be worn as a minimum:

10. This machine must not be used by minors or by anyone under the influence of

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have the force of law and only the courts can authoritatively interpret the law.

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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.

2 STROKE PETROL

- Electrical equipment must be kept
- away from rain and water.

Frank Key. TOOL HIRE

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