

MIG/MMA/TIG INVERTER WELDER MODEL NO: MIG200-S MULTI

PART NO: 6015605

OPERATION & MAINTENANCE INSTRUCTIONS



ORIGINAL INSTRUCTIONS

GC04/24

INTRODUCTION

Thank you for purchasing this CLARKE Welder. The MIG200-S is a machine that automatically sets the welding parameters, according to the wire type and diameter and the shielding gas. This is achieved by selecting either the amperage, wire feed speed or plate thickness required, with a single knob.

In practical terms, when using a synergic controlled MIG welding machine, the welder selects the wire diameter and shielding gas once for any welding operation and then only needs to adjust one control for the thickness of the material to be welded.

This makes it really easy to set the machine up and to to adjust power (one control). Good Welds are easily achieved because the Synergic Program takes all the guess work out of balancing the Power and Wire Feed Speed.

If necessary, the balance between Power and Wire Feed Speed can be changed from the machine's default.

Before attempting to operate the machine it is essential that you read this manual thoroughly and carefully follow all instructions given. In doing so you will ensure the safety of yourself and that of others around you, and you can also look forward to the welder giving you long and satisfactory service.

PRINCIPLES OF THE MACHINE

The MIG-200-S (for Synergic) adopts advanced synergic technology.

The 45kHz inverter frequency improves the efficiency and power factor with significant energy saving. This is an inverter double pulse gas shielded welding machine which can weld low-carbon steel, low-alloy steel, high-strength steel, stainless steel and aluminium alloys.

It can carry out all-round spot welding, butt welding, fillet welding and lap welding. Suitable for solid welding wire and stainless steel welding wire aluminum silicon and aluminium magnesium welding wire.

The gas is shielded by 100% Ar, 100% CO2, 2%CO2+98%Ar, 20%CO2+80%Ar, etc. The advantages are high efficiency, energy saving, strong arc penetration and small welding deformation.

A TIG torch kit is not supplied with the machine but are readily available from your CLARKE dealer (Part number 6012239).

A wide selection of accessories and consumables are available from your CLARKE dealer (see page 38).

SUITABILITY OF DIFFERENT METHODS

MMA/Arc Welding	Carbon Steel, Low Alloy Steel, Stainless Steel, Cast Iron.
MIG Welding	Carbon Steel, Mild Steel, Stainless Steel
TIG Welding	Carbon Steel, Low Alloy Steel, Stainless Steel, Cast Iron, Titanium, Copper + Brass.

Metal Being Welded	Suitable Gas	Part number
Mild Steel	Carbon Dioxide (CO2)	6000642
Stainless Steel	Argon	6000663
Aluminium		
Thin Sheet Metal/Mild Steel	Carbon Dioxide (CO2)/Argon Mix	6000662

When using the welder in a gasless configuration the shielding gas is created from the flux within the welding wire.

When using the welder outside you may need to erect a wind break to make sure the shielding gas is not blown away, thereby leaving a poor quality weld.

ENVIRONMENTAL RECYCLING POLICY



Through purchase of this product, the customer is taking on the obligation to deal with the WEEE in accordance with the WEEE regulations in relation to the treatment, recycling & recovery and environmentally sound disposal of the WEEE.

In effect, this means that this product must not be disposed of with general household waste. It must be disposed of according to the laws governing Waste Electrical and Electronic Equipment (WEEE) at a recognised disposal facility.

If disposing of this product or any damaged components, do not dispose of with general waste. This product contains valuable raw materials. Metal products should be taken to your local civic amenity site for recycling of metal products.

SPECIFICATIONS

Model 1.6-4.0 mm	MIG200-S Multi
Unpacked Weight (kg)	20.45
Dimensions (L x W x H) (mm)	580 x 235 x 380
Power Supply	230V~ 50Hz
Connecting plugs	32A Industrial plug (HTN023)
Peak Input Power	8740 W
Open current voltage	62V
Max Input Current	MIG 38A MMA 35A TIG 22A MIG Pulse -28A
Efficiency	MIG - 85.5% MMA - 86.6% TIG - 82.1%
Idle state power consumption	MIG - 22.7 W MMA - 22.7 W TIG - 22.7 W
IP Rating	IP21S
Insulation Grade	Class 1 - Grade H
Suitable Electrode size	TIG 1.6 - 2.4mm MMA
Welding Wire size	0.8mm, 0.9mm, 1.0mm &1.2mm
Welding Capacity (Mild Steel)	1-8 mm (MIG) 1-6 mm (MMA) 1-6mm (TIG)

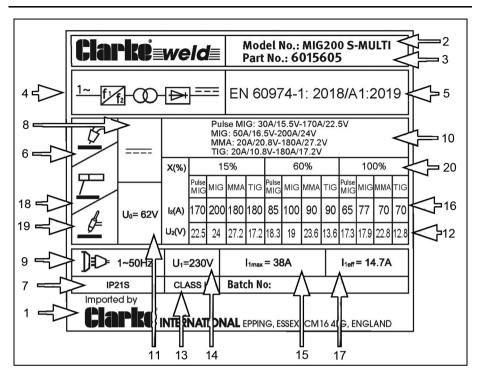
GUARANTEE

This CLARKE product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended. Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not effect your statutory rights.

THE MACHINE RATING PLATE



1	Name/address of manufacturer	11	Rated No-load Voltage
2	Model Number / Part Number	12	Conventional Load Voltage
3	Model number	13	Insulation grade
4	Welding Power Source	14	Rated Supply Voltage
5	British Standards applied	15	Rated Maximum Supply Current
6	Welding Process symbol		Rated welding current value
7	Degree of Protection	17	Rated Max input current
8	Welding Current symbol	18	Electrode symbol
9	Energy Supply symbol	19	MIG welding symbol
10	Range of Output	20	Duty Cycle

This welder is covered by regulations EN 60974-1:2018+A1:2019 / EN 60974-10:2014+A1:2015, where the Duty Cycle is expressed as a percentage of time the machine may be used in a given period for a specified welding current. e.g. When welding at 140 Amps the machine may be used for 6 minutes (60%) in any10 minute period,

SAFETY PRECAUTIONS FOR ALL TYPES OF WELDING



WARNING: AS WITH ALL MACHINERY, THERE ARE CERTAIN HAZARDS INVOLVED WITH THEIR OPERATION AND USE. EXERCISING RESPECT AND CAUTION WILL CONSIDERABLY LESSEN THE RISK OF PERSONAL INJURY. HOWEVER, IF NORMAL SAFETY PRECAUTIONS ARE OVERLOOKED, OR IGNORED, PERSONAL INJURY TO THE OPERATOR MAY RESULT.

FAILURE TO FOLLOW THESE RULES MAY RESULT IN SERIOUS PERSONAL INJURY.

GENERAL PRECAUTIONS

BURN PREVENTION

Wear protective clothing - gauntlet gloves designed for use in welding, apron, and protective shoes. Button shirt collar and pocket flaps and wear cuffless trousers to avoid entry of sparks and slag. Wear helmet with safety goggles or glasses with side shields underneath, appropriate filter lenses or plates (protected by clear glass). This is a MUST for welding (and chipping) to protect the eyes from radiant energy and spatter. Replace cover glass when broken, pitted, or spattered. Avoid oily or greasy clothing. A spark may ignite them. Hot metal should never be handled without gloves. First aid facilities and a qualified first aid person should be available unless medical facilities are close by for immediate treatment of flash burns of the eyes and skin burns. A hard hat should be worn when others work overhead. Flammable hair preparations should not be used by persons intending to weld or cut.

NOTE: ALL protective wear incl. masks & head shields MUST comply with PPE Regulation (EU) 2016/425.

TOXIC FUME PREVENTION

Severe discomfort, illness or death can result from fumes, vapours, heat, or oxygen enrichment or depletion that welding (or cutting) may produce. Prevent them with adequate ventilation. NEVER ventilate with oxygen. Lead-, cadmium-, zinc-, mercury- and beryllium-, bearing materials, when welded (or cut) may produce harmful concentrations of toxic fumes. Adequate local exhaust ventilation must be used, or each person in the area as well as the operator must wear an air-supplied respirator. For beryllium, both must be used. Metals coated with or containing materials that emit toxic fumes should not be heated unless coating is removed from the work surface, the area is well ventilated, or the operator wears an air-supplied respirator. Work in a confined space only while it is being force ventilated and, if necessary, while wearing an air-supplied respirator. Vapours from chlorinated solvents can be decomposed by the heat of the arc (or flame) to form PHOSGENE, a highly toxic gas, and other lung and eye irritating by-products. The ultraviolet (radiant) energy of the arc can also decompose trichloroethylene and perchloroethylene vapours to form phosgene. DO NOT WELD where solvent

vapours can be drawn into the welding atmosphere or where the radiant energy can penetrate to atmospheres containing even minute amounts of trichloroethylene or perchloroethylene.

FIRE AND EXPLOSION PREVENTION

Causes of fire and explosion are:

- Combustibles reached by the arc, flying sparks, hot slag or heated material:
- 2. Short circuits.

BE AWARE that flying sparks or falling slag can pass through cracks, along pipes, through windows or doors, and through wall or floor openings, out of sight of the goggled operator.

To prevent fires and explosion: keep equipment clean and operable, free of oil, grease, and (in electrical parts) of metallic particles that can cause short circuits. If combustibles are in the area, **DO NOT** weld. Move the work if practicable, to an area free of combustibles.

Avoid working in paint spray rooms, dip tanks, storage areas, ventilators. If the work cannot be moved, move combustibles away from sparks and heat; or protect against ignition with suitable fire-resistant covers or shields.

Walls, ceilings, and floor near work should be protected by heat resistant covers or shields. Fire watcher must be standing by with suitable fire extinguishing equipment during and for some time after welding or cutting if:

- 1. Appreciable combustibles (including building construction) are within 10m.
- 2. Appreciable combustibles are further than 10m, but can be ignited by sparks.
- 3. Openings (concealed or visible) in floors or walls can expose combustibles to sparks.
- 4. Combustibles adjacent to walls, ceilings, roofs or metal partitions can be ignited by radiant or conducted heat.

After work, check that area is free of sparks, glowing embers and flames. An empty container that held combustibles or that can produce flammable or toxic vapours when heated, must never be welded on or cut, unless the container has first been cleaned. This includes a thorough steam or caustic cleaning (or a solvent or water washing, depending on the combustible's solubility) followed by purging and inerting with nitrogen or carbon dioxide, and using protective equipment.

Water filling just below the working level may substitute for inerting.

A container with unknown contents should be cleaned (see paragraph above). **DO NOT** depend on sense of smell or sight to determine if it is safe to

weld or cut. Hollow castings or containers must be vented before welding as they can explode.

In explosive atmospheres, **NEVER** weld or cut where the air may contain flammable dust, gas, or liquid vapours.

DO NOT overload arc welding equipment. It may overheat cables and cause a fire. Loose cable connections may overheat or flash and cause a fire. **NEVER** strike an arc on a cylinder or other pressure vessel. It creates a brittle area that can cause a violent rupture or lead to such a rupture later under rough handling.

PREPARATION OF THE WORKING AREA



WARNING: ELECTRIC SHOCK CAN BE FATAL. A PERSON QUALIFIED IN FIRST AID SHOULD ALWAYS BE PRESENT IN THE WORKING AREA. IF PERSON IS UNCONSCIOUS AND ELECTRIC SHOCK IS SUSPECTED, DO NOT TOUCH THE PERSON IF HE OR SHE IS IN CONTACT WITH THE WELDER OR CABLES. DISCONNECT THE WELDER FROM THE POWER SOURCE AND THEN USE FIRST AID. DRY WOOD OR OTHER INSULATING MATERIAL CAN BE USED TO MOVE CABLES, IF NECESSARY, AWAY FROM THE PERSON.

The working area must be sufficiently spacious, not humid, and well-ventilated as to avoid any fumes which develop from the welding process and from incidental material adhering to the pieces to be welded (oils, paints, tars...) which may cause danger to the operator.

Avoid welding tanks which may contain flammable residuals.

ELECTRIC ARC WELDING

Comply with precautions in above and this section. Arc welding, properly done, is a safe process but a careless operator invites trouble. The equipment carries high currents at significant voltages. The arc is very bright and hot. Sparks fly, fumes rise, ultraviolet and infrared energy radiates and work pieces are hot. The wise operator avoids unnecessary risks and protects himself and others from accidents.

BURN PROTECTION

The welding arc is intense and visibly bright. It's radiation can damage eyes, penetrate lightweight clothing, reflect from light coloured surfaces and burn the skin and eyes. Skin burns resemble acute sunburn, those from gas - shielded arcs are more severe and painful.

PROTECTIVE CLOTHING (PPE) MUST BE WORN

Wear long sleeved clothing (particularly for gas shielded arc) in addition to gloves, apron and strong shoes. As necessary, use additional protective clothing such as leather jacket or sleeves, flameproof apron, and fire-resistant leggings. Avoid outer garments of untreated cotton. Bare skin protection: Wear dark substantial clothing, Button collars closed to protect the chest and neck and button any pockets to prevent entry of sparks.

EYE AND HEAD PROTECTION

Protect eyes from exposure to arc. **NEVER** look at an electric arc without protection. Always use a welding helmet or shield containing an appropriate filter plate (Please refer to the section 'Welding Shield on page 12). Place over face before striking arc. Protect filter plate with a clear cover plate. Cracked or broken helmet or shield should NOT be worn; radiation can pass through to cause burns.

Cracked, broken, or loose filter plates must be replaced IMMEDIATELY. Replace clear cover plate when broken, pitted, or spattered. WE SUGGEST you wear flash goggles with side shields under the helmet, to give some protection to the eyes should the helmet not be lowered over the face before an arc is struck. Looking at an arc momentarily with unprotected eyes (particularly high intensity gas-shielded arc) can cause a retinal burn that may leave a permanent dark area in the field of vision. Before welding whilst wearing contact lenses, seek advice from your optician.

PROTECTION OF NEARBY PERSONNEL

For production welding, a separate, well vented room or enclosed bay is best. In open areas, surround the operation with low reflective, non-combustible screens or panels. Allow for free air circulation, particularly at floor level. Provide face shields for all persons who will be looking directly at the weld. Others working in the area should wear flash goggles. Before starting to weld, make sure that screen or bay doors are closed.

SHOCK PREVENTION

Exposed live conductors or other bare metal in the welding circuit, or in unearthed, electrically-LIVE equipment can fatally shock a person whose body becomes a conductor. **DO NOT** STAND, SIT, LIE, LEAN ON, OR TOUCH a wet surface when welding without suitable protection.

PROTECTION FOR WEARERS OF ELECTRONIC LIFE SUPPORT DEVICES (PACEMAKERS)

Magnetic fields from high currents can affect pacemaker operation. Persons wearing pacemakers should consult with their doctor before going near arc welding or spot welding operations.

PROTECTION AGAINST SHOCK

Keep your body and clothing dry. **NEVER** work in damp area without adequate insulation against electric shock. Stay on a dry duckboard or rubber mat when dampness or sweat can not be avoided. Sweat, sea water, or moisture between body and an electrically LIVE part - or earthed metal - reduces the body surface electrical resistance, enabling dangerous and possibly lethal currents to flow through the body.

FARTHING THE FQUIPMENT

When arc welding equipment is earthed according to the National Electrical Code and the workpiece is earthed, a voltage may exist between the electrode and any conducting object.

Examples of conducting objects include, but are not limited to, buildings, electrical tools, work benches, welding power source cases, workpieces, etc. **NEVER** touch the electrode and any metal object unless the welding power source is off. When installing, connect the frames of each unit such as welding power source, control, work table, and water circulator to the building earth. Conductors must be adequate to carry earth currents safely. Equipment made electrically live by stray current may shock, possibly fatally. **DO NOT** EARTH to electrical conduit or to a pipe carrying ANY gas or a flammable liquid such as oil or fuel.

CABLES

Frequently inspect cables for wear, cracks and damage. IMMEDIATELY REPLACE those with excessively worn or damaged insulation to avoid possibly lethal shock from bared cable. Cables with damaged areas may be taped to give resistance equivalent to original cable. Keep cable dry, free of oil and grease and protected from hot metal and sparks.

TERMINALS AND OTHER EXPOSED PARTS

Terminals and other exposed parts of electrical units should have insulating covers secured before operation.

SAFETY DEVICES

Safety devices such as interlocks and circuit breakers should not be disconnected or shunted out. Before installation, inspection, or service of equipment, shut off all power and remove line fuses (or lock or red-tag switches) to prevent accidental turning ON of power. **DO NOT** open power circuit or change polarity while welding. If, in an emergency, it must be disconnected, guard against shock burns, or flash from switch arcing. Always shut OFF and disconnect all power to equipment. A power disconnect switch must be available near the welding power source.

ADDITIONAL PRECAUTIONS FOR MMA WELDING

- ALWAYS ensure that there is full free air circulating around the outer casing
 of the machine and that the louvres are unobstructed.
- A welding arc can seriously damage your eyes. Both operator and spectators must ALWAYS use a proper welding face shield or helmet with suitable filter lenses. Proper gloves and working clothes should be worn at all times.
- 3. **ALWAYS** remove all flammable materials from the welding area.
- 4. **NEVER** remove any of the panels unless the machine is disconnected from the supply and never use the machine with any of the panels removed.
- 5. **NEVER** use or store in a damp environment. **DO NOT EXPOSE TO RAIN**.
- NEVER attempt any electrical or mechanical repair unless your are a qualified technician. If you have a problem with the machine contact your local CLARKE dealer.
- ALWAYS keep a fire extinguisher handy (Dry Powder, CO₂ or BCF, NOT Water).
- NEVER continue to weld, if, at any time, you feel even the smallest electric shock. Stop welding IMMEDIATELY and DO NOT attempt to use the machine until the fault is diagnosed and corrected.
- NEVER allow the earth cable or torch to become wrapped around the operator or any person in the vicinity.

A comprehensive range of CLARKE safety equipment for use when welding is available from your local dealer. See page 37.

Consideration should be given to shielding the supply cable of permanently installed welding equipment, in metallic conduit or equivalent. Shielding should be electrically continuous throughout its length.

The shielding should be connected to the welding power source so that good electrical contact is maintained between the conduit and the welding power source enclosure.

The welding equipment should be routinely maintained according to the manufacturer's recommendations (see page 33). All access and service doors and covers should be closed and properly fastened when the welding equipment is in operation. The welding equipment should not be modified in any way except for those changes and adjustments covered in the manufacturer's instructions. In particular, the spark gaps of arc striking and stabilizing devices should be adjusted and maintained according to the manufacturers recommendations.

SAFETY SYMBOLS

The following symbols may be displayed on the machine or its packaging.

	Read this instruction booklet carefully before use.		Do not expose to rain.
	Wear welding mask	X	Recycle unwanted materials under WEEE Directive
THE STATE OF THE S	Wear protective gloves	<u>^</u>	General Hazard
	Wear a dust mask		Warning;- Magnetic field created (
	Caution:- Hot surface		Danger! Harmful fumes
A	Risk of Electric Shock		Do not weld near flammable or combustible materials
	May interfere with pacemakers		Danger:- Arc Rays

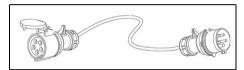
ELECTRICAL CONNECTION



WARNING! READ THESE ELECTRICAL SAFETY INSTRUCTIONS THOROUGHLY BEFORE CONNECTING THE PRODUCT TO A POWER SUPPLY. THE INSTALLATION OF THIS APPLIANCE SHOULD BE CARRIED OUT BY A COMPETENT ELECTRICIAN AND BE IN ACCORDANCE WITH CURRENT IEE WIRING REGULATIONS (BS4343).

This welder MUST be connected to a 230 Volt, 1 phase 50Hz supply through a suitably rated isolator switch. Before switching on, make sure that the voltage of your electricity supply is correct. Connecting it to any other power source may cause damage.

The user should purchase a suitable connecting cable capable of handling 32 Amps with a supply plug rated at 32A or better. A length of 2-3 metres is recommended giving



mobility to the appliance but without becoming a trip hazard.

If the plug has to be changed due to damage a replacement should be fitted following the wiring instructions shown below.



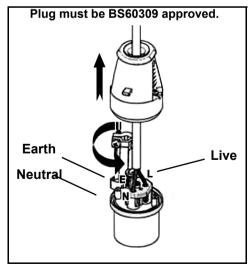
WARNING: THE WIRES IN THE POWER CABLE OF THIS PRODUCT ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:

BLUE = NEUTRAL BROWN = LIVE YELLOW =

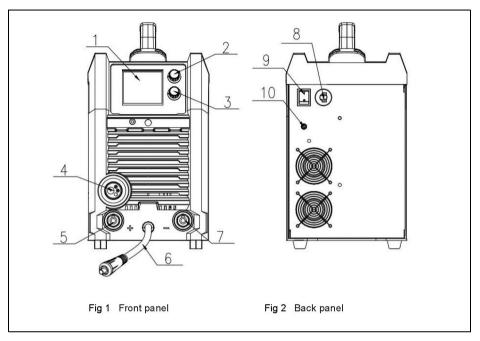
If the colours of the wires in the power cable of this product do not correspond with the markings on the terminals of your plug, proceed as follows.

- The Blue wire must be connected to the terminal which is marked N or Neutral.
- The Brown wire must be connected to the terminal which is marked L or Live.
- The Yellow wire must be connected to the terminal which is marked E or Earth.

If in any doubt, consult a qualified electrician. DO NOT attempt any repairs yourself.



OVERVIEW



The MIG200-S Multi- welder has the following features:

1	LCD colour screen
2	Amperage adjustment knob
3	Current adjustment knob
4	EU torch connector
5	Positive pole connection

6	Wire cable feeder interface
7	Negative pole connection
8	Power cable
9	On/off power switch
10	Gas connection port/Solenoid valve

LOOSE ITEMS SUPPLIED

- 1 x MIG welding torch with hose
- 1 x Torch Cable/Electrode Holder
- 1 x Earth Cable/Clamp
- 1 x Chipping Hammer/Wire brush
- 1 x 1.2mm welding torch tip (for aluminium welding) fitted to torch
- 3 x Hose clips
- 2 x 0.8mm welding torch tip (for MSW 0.8mm wire)
- 2 x 1.0mm welding torch tip (for MSW 1.0mm wire)
- 2 x 1.0mm welding torch tip (for aluminium wire)
- 1 x 1.2mm welding torch tip (for aluminium wire)
- 1 x Wire liner for steel/stainless steel
- 1 x Set V-rollers 0.8/1mm
- 1 x Wrench (for changing torch tips)

When unpacking, any damage or deficiency should be reported to your CLARKE dealer immediately.

PREPARING THE WELDER FOR USE



WARNING: NEVER OPERATE THIS MACHINE WITH THE SIDE PANELS PARTIALLY OPENED OR REMOVED.

IMPORTANT: Ensure that the welder is not connected to the mains supply before opening.

- 1. Open the side panel by sliding the latches up and lifting the panel.
- 2. Remove any loose items that have been transported inside.

MOUNTING THE WELDING WIRE SPOOL



WARNING: MAKE SURE THAT THE WELDER IS NOT CONNECTED TO THE MAINS SUPPLY.

Select the appropriate wire diameter according to the welding process and check that the wire diameter matches the size of the wire feeding wheel and the welding torch components.

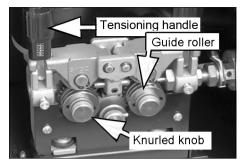
Spools of welding wire are available from your CLARKE dealer.

- 1. Open the side panel and remove the locking nut and retaining spring. The retaining locknut nut has a left-hand thread.
- 2. Place a spool of welding wire over the spindle.
 - DO NOT release the tension on the wire, as it will unravel causing feeding problems later.
 - The wire will feed off the spool anticlockwise from the bottom of the reel.
 - The spool must be fitted in the correct orientation otherwise it will not feed correctly.



SETTING THE DRIVE ROLLER SIZE

- 1. Release the tensioning handle and hinge it towards you.
- 2. Lift up the arm.
- Unscrew each knurled knob and remove it in order to pull off the guide rollers.
 - The groove size is stamped on the corresponding side of the roller.



- 4. Select the groove size according to the size of the wire you are using and put the roller back on the spindle with your chosen side facing you.
- 5. Replace the chosen roller onto the spindle. Secure with the knurled knob and re-tension the locking handle.

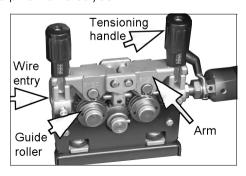
THREADING THE WIRE



WARNING: NEVER OPERATE THIS MACHINE WITH THE SIDE PANELS PARTIALLY OPENED OR REMOVED.

IMPORTANT: Do not release the tension on the wire as it will unravel causing feeding problems later.

- 1. Pull out the end of the wire from the spool, taking care not to release the tension.
 - We recommend you cut off and discard the first 10 cm of wire from the spool to avoid any burrs and then straighten the next few centimetres of wire to help with feeding.
- 2. Loosen the tensioning handles and pivot towards you.
- Feed the wire through the guides, over the drive roller and into the torch liner.
 - Push about 10-15 cm into the torch liner.
- Lower and reset the tensioning handles.
 - Tighten the tensioning knobs sufficiently to hold in position, but do not fully tighten.



NOTE: Correct tension will allow the wire to feed into the torch liner smoothly but will allow the drive roller to slip in the event of a blockage.

Adjust the pressure handles so that the pressing force is appropriate so the welding wire is feeding normally and there is no slip on the wire feed rollers

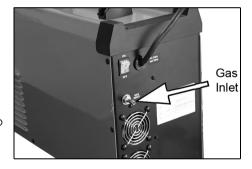
RECOMMENDED PRESSURES				
Wire Dia	Recommended Pressure (as shown on the handles)			
1.2	4 - 5			
1.0	3 - 4			
0.8	2 - 3			

The shaft of the wire reel is equipped with a damping adjustment mechanism incorporating an adjustment bolt at its centre.

CONNECTING THE GAS CYLINDER

The welder can be configured to weld with or without a gas supply according to the type of welding wire being used.

- Mild steel solid core (with gas)
- Flux cored (no gas)
- Connect a bottled gas cylinder to the connector at the back of the welder



FITTING THE WELDING ROD

Select the appropriate welding rod and insert it into the welding rod holder.

 It should be approximately the same thickness as the workpieces being welded.

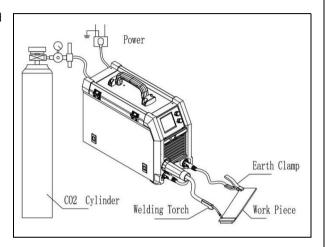
CONFIGURING THE MACHINE ATTACHMENTS

To prepare the machine for welding it is important that you follow the following procedure.

Making sure that the ON/OFF switch, located on the rear panel is in the OFF position, connect the welding leads and gas bottle.

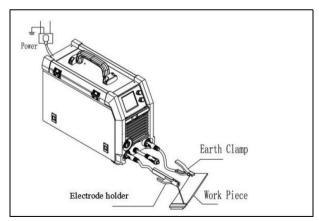
MIG WELDING WITH GAS

If using 0.9mm flux cored wire, connect the earth clamp to the negative terminal as shown.



MMA ELECTRODE WELDING

Connect the earth clamp terminal and the electrode holder as shown.



2. Switch on using the switch located on the rear panel.



3. For Flux or MMA welding, select the appropriate welding rod and fit it into the welding rod holder.



The following sizes can be used and are available from your CLARKE dealer.

	WIRE ROD DIAMETER	WORKPIECE THICKNESS
MIG	0.6 mm	
	0.8 mm	1-5 mm
	0.9 mm	1-5111111
	1.0 mm	
MMA/TIG	1.6 mm	1.5 - 2.0 mm
	2.5 mm	2.5 - 3.0 mm
	3.2 mm	3.5 - 4.5 mm

4. Attach the earth clamp to the workpiece as close as possible to the area being welded. Clean with a wire brush where necessary to ensure the connection is as clean as possible.

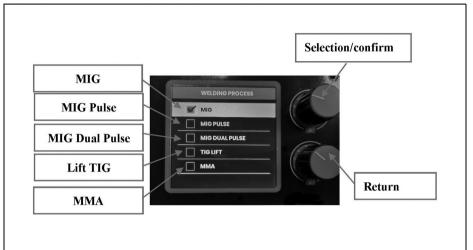
PREPARING THE WORKPIECE

The area being welded should be perfectly clean. Any coating, plating or corrosion must be removed, otherwise a good weld will be impossible to achieve.

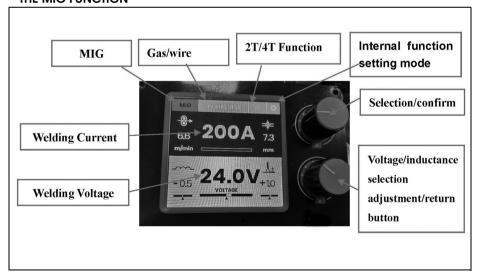
SYNERGIC CONTROL SETTINGS

PANEL MENU CONFIGURATION

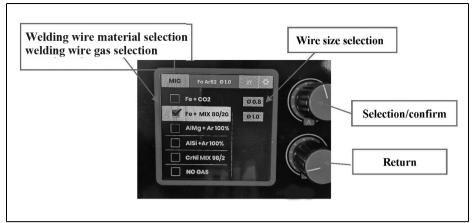
USING THE PANEL MENU FUNCTION SELECTION



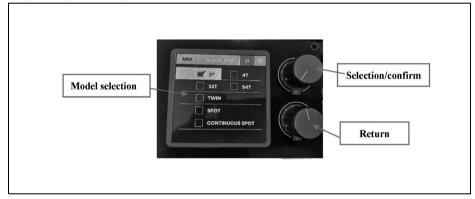
THE MIG FUNCTION



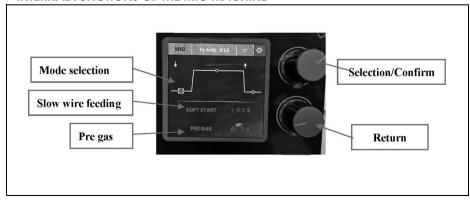
MIG WIRE DIAMETER SELECTION AND WELDING WIRE INTERFACE SELECTION



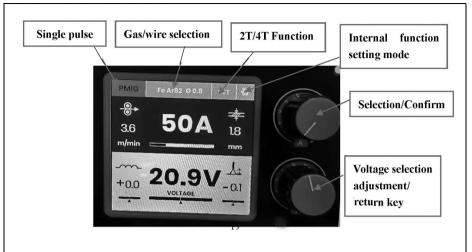
2T/4TS2T/S4T TWIN/SPOT INTERFACE



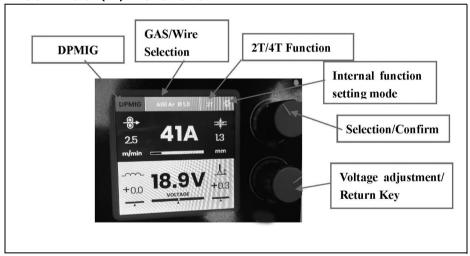
INTERNAL FUNCTIONS OF THE MIG MACHINE



SINGLE PULSE MIG FUNCTION



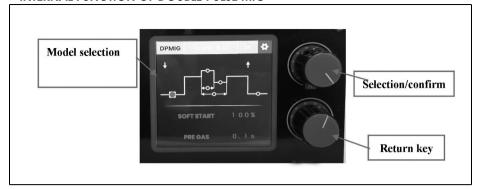
DOUBLE-PULSE (DP) MIG FUNCTION



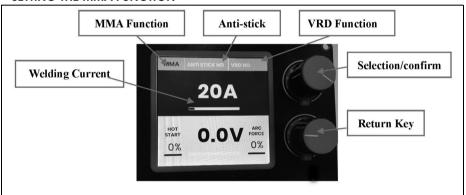
The 2T/4T setting allows the operator to start the weld simply be pressing the trigger on the torch and then using pre-selectable features such as starting amps, up slope, down slope and ending amps to manage the weld from beginning to end.

Using 2T (two touch) means holding the trigger while welding and 4T(four touch) meansit is only necessary to click the trigger to ignite the arc and the torch will continue to weld until you click it again to turn it off.

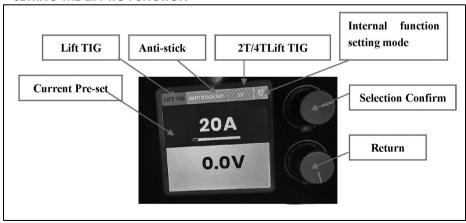
INTERNAL FUNCTION OF DOUBLE PULSE MIG



SETTING THE MMA FUNCTION



SETTING THE LIFT TIG FUNCTION



OPERATING THE WELDER (MIG)



CAUTION: THE DUTY CYCLE MUST BE ADHERED TO IN ORDER TO PREVENT THE THERMAL OVERLOAD PROTECTION FROM ACTIVATING

- 1. Switch on the welder and follow the MIG settings.
- 2. Cover your face with a suitable welding mask.
- 3. Approach the work with the torch tip at an angle of about 45° and pull the torch trigger fully.
 - As the wire touches the workpiece an arc will be struck.
- 4. In order to produce a satisfactory weld, the control may be fine tuned as required. This will come with practice.
- MIG welding is an acquired skill. It is strongly advised that, if you are not fully
 familiar with this type of welding, you practice on a piece of material with
 the same characteristics as your workpiece until you are satisfied with the
 result and you have set your welder to produce a satisfactory weld.
- One of the problems experienced with novice welders is the welding wire sticking to the contact tip. This is as a result of the wire feed speed being too slow. It is always better therefore to start with too high a speed and back off slightly to avoid the possibility of the wire welding itself to the tip.
- The speed of wire delivery will increase automatically as the current is increased.
- Listen to the sound made. An irregular crackling sound denotes too high a
 wire speed. Decrease the voltage/speed until a regular, strong buzzing
 sound is heard.

WELDING TECHNIQUE

- Try to maintain the tip of the nozzle at an angle of approx 45° and at a constant distance of approx 5-7mm from the workpiece.
- Try to maintain a constant speed of movement with the torch.
- DO NOT weld in windy conditions or in an area where ventilation is a problem, or where air flow fluctuates.
- **ALWAYS** keep the wire and nozzle clean...NEVER use rusted wire.
- Avoid sharp bends or kinks in the welding hose.

OPERATING THE WELDER (MMA)



WARNING: WHEN WELDING ALWAYS ENSURE THERE IS ADEQUATE VENTILATION IN THE WORK AREA DUE TO TOXIC FUMES.

WARNING: DO NOT STRIKE THE ELECTRODE ON THE WORKPIECE, AS THIS MAY DAMAGE THE ELECTRODE.

WARNING: WELDING ARCS PRODUCE HARMFUL UV/IR LIGHT WHICH CAN SERIOUSLY DAMAGE YOUR EYES. ALWAYS USE A WELDING FACE-SHIELD WITH A SUITABLE FILTER THAT CONFORMS TO CURRENT STANDARDS.

WARNING: PROTECT BYSTANDERS BY USING WELDING SCREENS.

The consumable electrode is connected to a high amperage low voltage supply which creates an electric arc between the electrode and the workpiece.

The most difficult aspect of the arc welding process, particularly for beginners, is that of striking an arc. We strongly recommend that you practice on some pieces of scrap metal to get the feel of the operation before you start an actual welding job.

- Holding the welding mask close to your face, give a short stroke with the electrode on the workpiece. As soon as the arc is primed, withdraw the electrode from the workpiece to leave a gap. The current will flow across the gap with a crackling noise and a brilliant arc. Continue to weld in one direction, maintaining the small gap as you go.
- 2. As soon as the arc is struck, maintain a distance from the workpiece equal to the diameter of the electrode. Keep this distance as constant as possible for the duration of the weld. As you advance along the workpiece the angle of the electrode must be maintained at between 20° and 30°.

NOTE: When you prime the arc be sure to withdraw the electrode swiftly to leave the gap, otherwise the electrode will weld itself to the workpiece. If this occurs give the electrode a short sharp jerk to free it and, if necessary, prime the arc again. If you cannot free the electrode, switch the machine off immediately and free it. Take care the electrode will get red hot very quickly and will be capable of burning through welding gloves.

- 3. At the finish of the weld, bring the end of the electrode backward in order to fill the weld crater and then quickly lift the electrode from the weld pool to extinguish the arc.
- 4. Inspect the job carefully. Any slag forming on the surface should be chipped away with a chipping hammer or pick. ALWAYS wear your safety goggles when chipping away slag.

OPERATING THE WELDER (TIG WELDING)

TIG welding is primarily for very thin materials. It uses a non-consumable tungsten (or tungsten alloy) electrode held in a torch.

A shielding gas (100% Argon), is fed through the torch to protect:

- The electrode
- Molten weld pool
- Solidifying weld metal from contamination by the atmosphere

The electric arc is produced by the passage of current through the conductive, ionized shielding gas. The arc is established between the tip of the electrode and the work. Heat generated by the arc melts the base metal. Once the arc and weld pool are established, the torch is moved along the joint and the arc progressively melts the joined surfaces. Filler wire, if used, is usually added to the leading edge of the weld pool to fill the joint.

This process is ideally suited for welding thin metals such as car body panels, pressure vessels, heat exchangers, pipes etc., where accuracy and a high quality weld is desired, as it produces a very low porosity weld.

MAIN FEATURES OF TIG WELDING

- 1. Electronic control of welding current.
- 2. Forced air cooling.
- 3. A thermal overload protection device prevents overheating.

TIG WELDING PROCESS ADVANTAGES

- It produces superior quality welds, generally free of defects.
- It is free of the spatter which occurs with other arc welding processes.
- It can be used with or without filler metal as required.
- It allows excellent control of root pass weld penetration.
- It can produce welds at high speeds.
- It allows precise control of the welding variables.
- It is capable of welding very thin material (0.5mm), without undue distortion.

LIMITATIONS

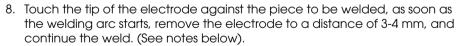
- 1. Greater weld dexterity is required.
- 2. The DC output is **not suitable** for welding aluminium.

LIFT TIG WEIDING

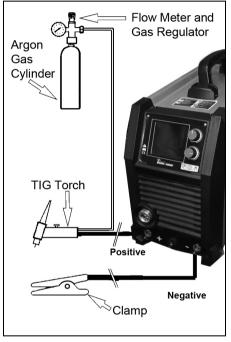
Before TIG welding, you must obtain the correct torch and a gas cylinder of 100% pure Argon, (see page 37)

To prepare the machine for TIG welding and adopt the following procedure.

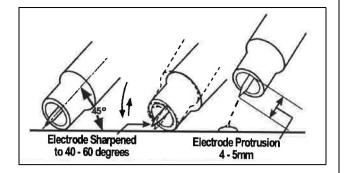
- 1. Plug the work clamp lead in to the positve terminal, and secure the work clamp to the workpiece.
 - For good contact, the work clamp must be attached to clean bare metal. Clean with a wire brush where necessary.
- 2. Plug the torch lead to the negative terminal.
- 3. Screw the pressure regulator on to the gas bottle tightly, and attach the gas hose to the inlet connector securely, with a hose clip.
- 4. Turn the pressure regulator knob to set a pressure of approx. 2.5kg/ cm^{2} (35 lbf/in²).
- 5. Ensure the electrode at the torch nozzle, protrudes by 4 - 5mm, also ensure that the electrode is sharply pointed with an angle of 40°-60° if it is not, grind it to shape.
- 6. Switch on and set the welding current in accordance with the thickness of the material to be welded and the size of tungsten electrode to be used.
- 7. Cover your face with the head shield. Bring the torch to within 3-4mm of the work, and at an anale of 40-60°, so that the ceramic
 - nozzle gently touches the work surface.



A 13mm TIG torch part no 6012239 is required...



- To stop welding, simply remove the torch from the workpiece.
- Turn off the gas as soon as you finish welding.



Notes:

- To avoid a visible strike mark on the surface of the workpiece it is advisable to strike the arc in the joint where the mark will be concealed by the weld.
- Thin sheet and stainless steel may be welded with or without filler, similar to gas welding.
- The filler is fed in at the edge of the pool. The rod must not touch the tip of the electrode or enter the arc. The end of the rod must always be shielded by the argon atmosphere to prevent as far as possible the formation of oxides of its surface. When welding stainless steel and copper, it is often possible to feed in the filler continuously at the edge of the pool.
- The arc length generally varies between 3 and 6 mm depending on the type of joint, type and thickness of material and so on.
- The torch is advanced in the direction of welding without lateral movement, maintaining the torch angle of 45° to the workpiece.

WELDING SETTINGS TABLES

L-SHAPED BUTT WELDING

Metal thickness (mm)	Wire diameter (mm)	Root gap	Welding current (A)	Welding voltage (V)	Welding speed	Gas Flow (L/min)	Number of
0.8	0.8 - 0.9	0	60-70	16-16.5	50-60	10	1
1.0	0.8 - 0.9	0	75-85	17-17.5	50-60	10-15	1
1.2	0.8 - 0.9	0	80-90	17-18	50-60	10-15	1
1.6	0.8 - 0.9	0	95-105	18-19	45-50	10-15	1
2.0	1.0 - 1.2	0 - 0.5	110-120	19-19.5	45-50	10-15	1
2.3	1.0 - 1.2	0.5 - 1.0	120-130	19.5-20	45-50	10-15	1
3.2	1.0 - 1.2	1.0 - 1.2	140-150	20-21	45-50	10-15	1
4.5	1.0 - 1.2	1.0 - 1.5	140-150	22-23	40-50	15	1
6.0	1.2	1.2 - 1.5	170-185	24-26	40-50	15-20	Positive
9.0	1.2	1.2 - 1.5	320-340	32-34	40-50	15-20	Positive

ANGLE JOINT (THIN PLATE)

Metal thickness (mm)	Wire diameter (mm)	Welding current (A)	Welding voltage (V)	Welding speed	Gap between conductive nozzle profiles (mm)	Gas Flow (L/min)
1.6	0.8-0.9	65-75	16-17	40-45	10	10-15
2.3	0.8-0.9	80 - 100	19-20	40-45	10	10-15
3.2	1.0-1.2	130 - 150	20-22	35-40	10-15	10-15
4.5	1.0-1.2	150 - 180	21-23	30-35	10-15	10-15

FLAT FILLET WELDING LAP JOINT (THIN PLATE)

Metal thickness (mm)	Wire diameter (mm)	Welding current (A)	Welding voltage (V)	Welding speed	Distance between conductive nozzle profiles (mm)	Gas Flow (L/min)
0.2	0.8 - 0.9	60-70	16-17	40-45	10	10-15
1.2	0.8 - 0.9	80-90	18-19	45-50	10	10-15
1.6	0.8 - 0.9	90-100	19-20	45-50	10	10-15
	0.8 - 0.9	100-130	100-130	45-50	10	10-15
2.3	1.0-1.2	120-150	120-150	45-50	10	10-15
3.2	1.0 - 1.2	150-180	150-180	35-45	10 - 15	10-15
4.5	1.2	200 - 250	200 - 250	40 - 45	10 - 15	10-15

WELDING PITFALLS

The arc welding technique is an acquired skill and requires considerable practice before perfect results are obtained. The diagrams below will help to explain the pitfalls in your technique and how to overcome them.



ARC TOO SHORT

This causes irregular masses of weld to be deposited, with slag contamination on an uneven surface.



ARC TOO LONG

This causes poor penetration resulting in a weak weld with excessive spatter and porosity. Surface of the weld is rough and the arc makes a hissing sound



ELECTRODE MOVED TOO SLOWLY

This causes a very wide and heavy deposit which overlaps at the sides. It is wasteful both in terms of time and electrode use.



FLECTRODE MOVED TOO QUICKLY

This causes poor penetration with a 'stringy' and incomplete weld deposit. Slag is very hard to remove.



CURRENT TOO LOW

This causes poor penetration and causes the electrode to stick to the workpiece too readily. Also results in a very irregular and high weld deposit. Slag is very hard to remove.



CURRENT TOO HIGH

This causes excessive penetration with spatter and deep pointed crater. It may also cause holes to be burned in the workpiece.

Burns electrodes very quickly.



THE PERFECT WELD

With the correct combination of arc length, current regulation, inclination and speed of the electrode, you will, with practice, produce the perfect weld.

This should be regular with uniform ripples and no slag contamination. The arc will make a steady crackling sound.

TROUBLESHOOTING

Your CLARKE Welder has been designed to give long and trouble free service. If however, having followed the instructions in this booklet carefully you still encounter problems, the following points should help identify and resolve them.

DEFECT	CAUSES	SUGGESTIONS		
Spark will not start	Bad clamp connection. Inverter printed circuit is defective.	Check clamp connection. Contact your nearest CLARKE dealer.		
No output voltage	Internal relay has failed.	Contact your nearest CLARKE dealer.		
	Inverter printed circuit is defective.	Contact your nearest CLARKE dealer.		
Wrong output current	Control PCB is defective.	Contact your nearest CLARKE dealer.		
	Low power supply voltage.	Check the mains distribution system.		
Porosity of welds	Acid electrode on steel with high sulphur content. Electrode oscillates too much. Workpieces are too far apart. Workpiece being welded is cold.	Use basic electrode. Move edges to be welded closer together. Move slowly at the beginning.		
Cracks in weld	Material being welded is dirty (e.g.oil, paint, rust, oxides). Not enough current.	Clean workpiece before welding is an essential method of achieving neat weld beads. Also increase current output.		
Limited penetration	Low current, high welding rate, reversed polarity. Electrode inclined in position opposite to it's movement.	Ensure operating parameters are regulated and improve preparation of work pieces.		

DEFECT	CAUSES	SUGGESTIONS		
Profile defects	Welding parameters are incorrect. Pass rate is not related to operating parameter requirements. Electrode not inclined constantly while welding.	Follow basic and general welding principles.		
High Sprays	Electrode is too inclined.	Make appropriate corrections.		
Arc is unstable	Insufficient current.	Check condition of electrode and earth wire connection.		
Electrode melts obliquely	Electrode core is not centred. Magnetic blow phenomenon.	Replace electrode. Connect two earth wires to opposite sites of the work piece.		
No response from welder.	Check fuses and power lead.	Replace fuses as necessary. If problem persists return welder to your local dealer.		
		Check fuse size.		
Welder does not feed wire.	Feed motor defective.	Return welder to your local dealer.		
Feed motor running but no	Insufficient Feed Roller pressure.	Increase roller pressure.		
wire being fed from welder tip	Burr on end of wire.	Re-cut wire square with no burr.		
	Liner blocked or damaged.	Clean with compressed air or replace liner.		
	Inferior wire	Use only good "clean" wire.		
	Roller worn out.	Replace roller.		
Wire welds itself to tip.	Wire feed speed too low.	Unscrew tip, cut wire and fit new tip. Increase wire speed before operating again.		
	Wrong size tip.	Fit correct size tip.		

DEFECT	CAUSES	SUGGESTIONS		
Wire feeds into 'birds nest' tangle.	Wire welded to tip.	As previous plus reduce feed roller pressure.		
	Wire liner damaged preventing smooth operation.	Renew wire liner.		
Loose coils of wire tangle around wire drum inside machine.	Locking knob too slack.	Tighten Locking Knob slightly. Do not over-tighten.		
Erratic wire feed.	Tensioning Knob too tight.	Loosen Tensioning Knob slightly.		
	Tension roller worn.	Check and replace if necessary.		
	Insufficient pressure on tension roller.	Increase pressure on tensio roller Caution: DO NOT overtighten.		
	Wire dirty, rusty, damp or bent.	Re-cut wire and ensure it is clean.		
	Liner partially blocked.	Clean with compressed air.		
Poor quality welds.	Insufficient gas at weld area.	Check that gas is not being blown away by draughts and if so move to a more sheltered work area. If not, increase gas supply.		
	Rusty, painted, damp, oil or greasy workpiece.	Ensure workpiece is clean and dry.		
	Rusty/dirty wire.	Ensure wire is clean and dry.		
	Poor earth contact.	Check earth clamp/ workpiece connection.		
Welder cuts out whilst in use.	Duty cycle exceeded (auto cut-out operates).	Allow welder to cool 15-30 mins before continuing. Note: If duty cycle is continually exceeded, damage to the welder may result and welder output is probably too small for application.		

CARE AND MAINTENANCE



WARNING: ELECTRICITY CAN KILL - NEVER TOUCH LIVE ELECTRICAL COMPONENTS.

WARNING: DISCONNECT THE POWER SUPPLY BEFORE ALL INSPECTIONS AND MAINTENANCE OPERATIONS. BEWARE HOT SURFACES.

The machine requires no maintenance other than the following guidelines. Cleaning at frequent intervals is advisable if the unit is operating in a very dusty environment. Avoid getting particles of metal inside the machine since they could cause short circuits

- 1. Keep the louvres clean to avoid a build up of dirt and oxides inside the machine which can reduce machine output.
- 2. Check all cables periodically for good condition and security.
- Always inspect the earth cable and torch hose before use, to ensure they are in perfect condition and that the earth clamp is clean and secured correctly to the cable.
- 4. Check the hose for security and damage.

Wire feed unit:

The feed roller / wire guide plays an important part in achieving consistent results. Periodically check the feed roller groove, removing any deposits.

Torch:

Protect the torch hose assembly from mechanical wear. If the liner is blocked it must be replaced.

Contact tip:

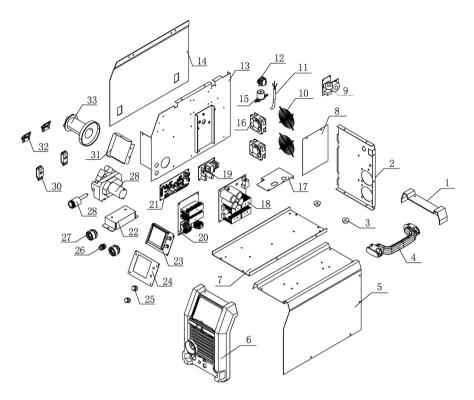
The contact tip is a consumable item and must be replaced when the bore becomes enlarged or oval. The contact tip **MUST** be kept free from spatter to ensure an unimpeded flow of gas.

To keep the contact tip free from spatter, we recommend the use of antispatter spray (6000715) available from your CLARKE dealer.

Torch shroud:

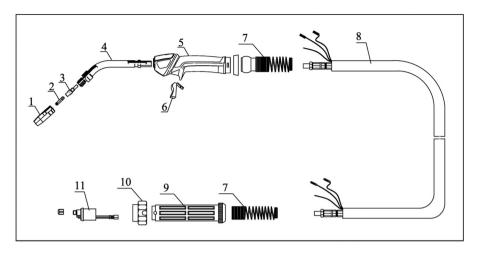
The torch shroud must also be kept clean and free from spatter. Build-up of spatter inside the gas cup can cause a short circuit at the contact tip which will result in expensive machine repairs.

COMPONENT PARTS



			Ti de la companya de		
1	Rear plastic cover	12	Power switch	23	Digital PCB
2	Rear panel	13	Middle panel	24	LCD fixed plate
3	Rubber foot	14	Wire feeding door	25	Potentiometer knob
4	Handle assembly	15	Solenoid valve	26	Pull-off
5	Top panel	16	Fan	27	Coupling device base
6	Front plastic cover	17	Middle fixed plate	28	EU torch connector
7	Bottom panel	18	Rectifier PCB board	29	4x4 wire feeder
8	Fan damper	19	Power PCB	30	Door lock
9	EMC Circuit board	20	FRD Circuit board	31	PCB cover plate
10	Fan cover	21	Control PCB	32	Hinge
11	Power cable	22	Wire feed plate	33	Wire spool

MIG TORCH COMPONENTS



1	Sheath	7	Protective spring
2	Contact tip	8	Torch sleeve
3	Diffuser	9	Connector body
4	Swan neck	10	Screw cap
5	Handle	11	EU connector
6	Trigger		

ARC ACTIVATED HEADSHIELDS

These highly popular head-shields activate instantly when the arc is struck and allow you to have both hands free when welding.

Model	Arc Activated	Grinding function	Solar Powered	Fixed Shade	Flip Up	Part Number
GWH4	~	~	~			6000706
GWH5	~	~	~			6000707
GWH6	~	V	~			6000708
GWH7	~	V	~			6000709
GWH8	~	V	~			6000714
PG4	~	V	~			6000716
HS1				~	~	6000700
HSF1				~	~	6000705

OTHER CONSUMABLES

The following are some of the accessories available from your CLARKE dealer. Please quote the part numbers shown below:

Part	Description	Part number	Comment
Welding Wire Spools	Flux cored mild steel (mini spool) 0.9mm	8132110	Use for no gas welding
	Mild steel (mini) - 0.6mm	8132100	Use for gas welding
	Mild steel (mini) - 0.8mm	8132070	Use for gas welding
	Stainless Steel 0.8mm (mini spool)	8132090	
Welding Gas	CO ₂ (250g)	6000642	For welding mild steel
	CO ₂ (600g)	6000643	For welding mild steel
	Argon	6000661	For aluminium/stainless
	CO ₂ /Argon Mix	6000660	For welding stainless/ thin sheet mild steel
Welding Tips	0.6 mm (pack of 5)	8132260	
	0.8 mm (pack of 5)	8132270	
	1.0 mm (pack of 5)	8132275	
Arc Welding	1.6 x 300mm	3050590	
Rods	2.0 x 350mm	3050592	
	2.5 x 350mm	3050594	
	3.25 x 350mm	3050596	
Welding Rods	4.0 x 400mm E6013	3050598	
Welding Torch	TIG Welding Torch Assembly	6012239	
Regulator	Argon Gas Regulator	8134140	

A Gas Regulator, Arc Activated Headshields, Anti-spatter Spray, Swan Necks, Torch Shrouds and Torch Liner are also available from your CLARKE dealer or our parts division.

DECLARATIONS OF CONFORMITY - UK



DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following legislation:

Electromagnetic Compatibility Directive Low Voltage Directive 2014/30/EU 2014/35/EU

Ecodesign Directive

2009/125/EC

Restriction of Hazardous Substances (RoHS) Directive

2011/65/EU

The following standards have been applied to the product(s):

EN 60974-10:2014/A1:2015, IEC 62321-7-2:2017, IEC 62321-1:2013, IEC 60974-13:2021, EN 50525-2-81:2011, EN 60974-1:2018+A1:2019, IEC 62321-3-1:2013, EN 60974-12:2011, EN 60974-11:2010, IEC 62321-2:2013, EN IEC 60974-1:2018/A1:2019, IEC 62321-4:2013/AMD1:2017, EN IEC 60974-7:2019, IEC 62321-7-1:2015, IEC 62321-5:2013, IEC 62321-6:2015, IEC 62321-8:2017, IEC 62321:2013

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned legislation has been compiled and is available for inspection by the relevant enforcement

The CE mark was first applied in: 2024

Multifunction Welder Product Description:

MIG200 S-MULTI Model Number(s):

04/03/2024 Date of Issue:

Serial/Batch Number:

Refer to product/packaging label

Signed:

J.A Clarke

Director

Page 1 of 1

MIG200 S-MULTI CE Clarke DOC 030424

MIG200 S-MULTI UKCA Clarke DOC 030424

Hemnall Street, Epping, Essex, CM16 4LG

DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following legislation:

The Electromagnetic Compatibility Regulations 2016

The Ecodesign for Energy-Related Products Regulations 2010

The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment The Electrical Equipment (Safety) Regulations 2016 Regulations 2012

The following standards have been applied to the product(s):

EN 60974-10:2014/A1:2015, IEC 62321-7-2:2017, IEC 62321-1:2013, IEC 60974-13:2021, EN 50525-2-81:2011, EN 60974-1:2018+A1:2019, IEC 62321-3-1:2013, EN 60974-12:2011, EN 60974-11:2010, IEC 62321-2:2013, EN IEC 60974-1:2018/A1:2019, IEC 62321-4:2013/AMD1:2017, EN IEC 60974-7:2019, IEC 62321-7-1:2015, IEC 62321-5:2013, IEC 62321-6:2015, IEC 62321-8:2017, IEC 62321:2013

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned legislation has been compiled and is available for inspection by the relevant enforcement

The UKCA mark was first applied in: 2024

Multifunction Welder MIG200 S-MULTI Product Description: Model Number(s): Refer to product/packaging label Serial/Batch Number:

04/03/2024

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Page 1 of 1

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