

ozito

GASLESS MIG WELDER

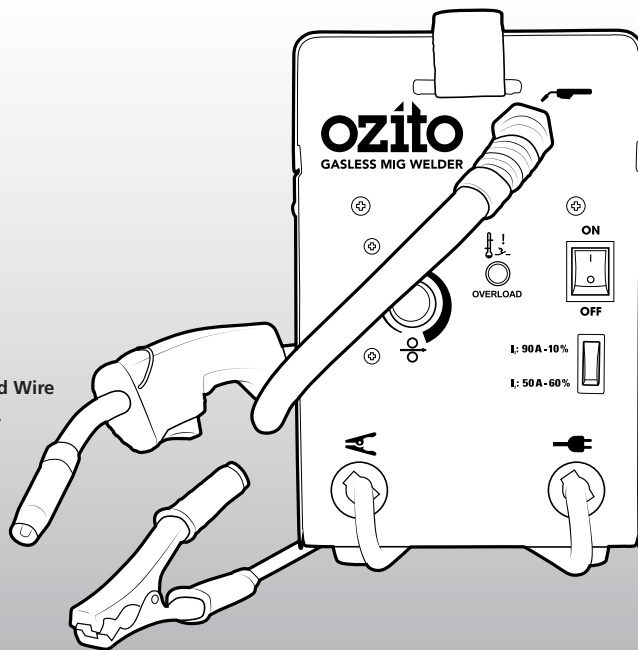
50 / 90 Amp

INSTRUCTION MANUAL

SPECIFICATIONS

Input Voltage:	240V ~ 50Hz
Welding Current:	50 / 90Amp
Welding Wire Size:	0.8, 0.9mm Flux-Cored Wire
Duty Cycle:	60%@50A, 10%@90A
Insulation Type:	Class I
Max. Wire Spool Weight:	0.4kg
Weight (tool only):	14kg

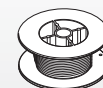
ozito.com.au



WHAT'S IN THE BOX



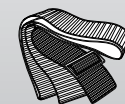
MIG Welder



**0.8mm Welding Wire
& Welding Mask**



**Chipping Hammer /
Wire Brush**



Carrying Strap



**Wire Feed Roller,
Shroud & Torch Tip**

3

YEAR REPLACEMENT WARRANTY

WARRANTY

IN ORDER TO MAKE A CLAIM UNDER THIS WARRANTY YOU MUST RETURN THE PRODUCT TO YOUR NEAREST BUNNINGS WAREHOUSE WITH YOUR BUNNINGS REGISTER RECEIPT. PRIOR TO RETURNING YOUR PRODUCT FOR WARRANTY PLEASE TELEPHONE OUR CUSTOMER SERVICE HELPLINE:

Australia 1800 069 486

New Zealand 0508 069 486

TO ENSURE A SPEEDY RESPONSE PLEASE HAVE THE MODEL NUMBER AND DATE OF PURCHASE AVAILABLE. A CUSTOMER SERVICE REPRESENTATIVE WILL TAKE YOUR CALL AND ANSWER ANY QUESTIONS YOU MAY HAVE RELATING TO THE WARRANTY POLICY OR PROCEDURE.

The benefits provided under this warranty are in addition to other rights and remedies which are available to you at law.

Our goods come with guarantees that cannot be excluded at law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Generally you will be responsible for all costs associated with a claim under this warranty, however, where you have suffered any additional direct loss as a result of a defective product you may be able to claim such expenses by contacting our customer service helpline above.

3 YEAR REPLACEMENT WARRANTY

Your product is guaranteed for a period of **36 months from the original date of purchase**. If a product is defective it will be replaced in accordance with the terms of this warranty. Warranty excludes consumable parts, for example: Welding tips, torch nozzles, flexible inner tube, welding wire, wire feed rollers, welding lenses, wire brushes and chipping hammer.

WARNING

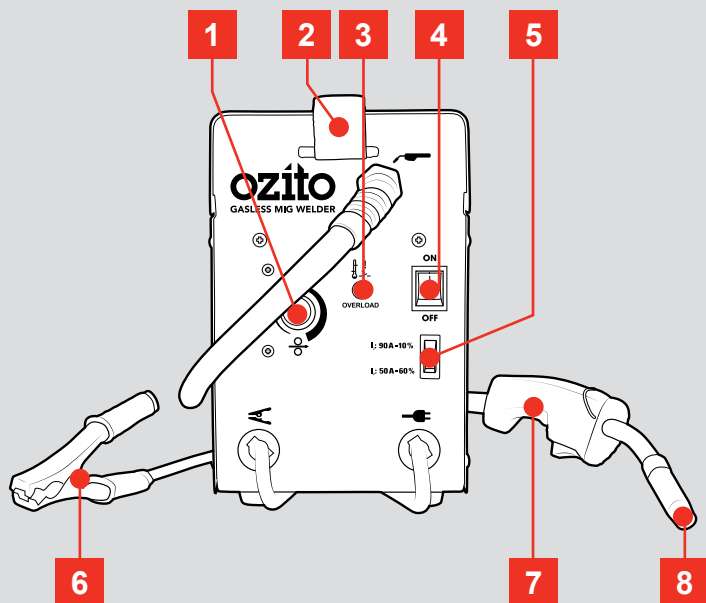
The following actions will result in the warranty being void.

- If the tool has been operated on a supply voltage other than that specified on the tool.
- If the tool shows signs of damage or defects caused by or resulting from abuse, accidents or alterations.
- Failure to perform maintenance as set out within the instruction manual.
- If the tool is disassembled or tampered with in any way.
- Professional or high frequency use.

KNOW YOUR PRODUCT

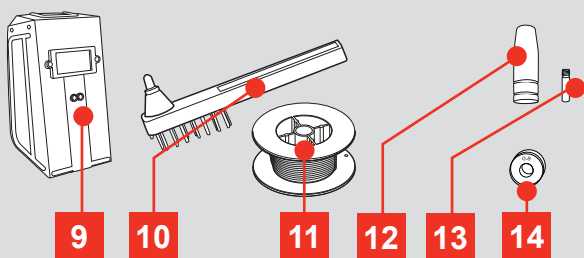
MIG WELDER

- | | |
|---------------------------|--------------------------|
| 1 Wire Feed Speed | 5 Current Control Switch |
| 2 Carry Handle | 6 Earth Clamp |
| 3 Overload Protection LED | 7 MIG Torch |
| 4 On/Off Switch | 8 Torch Tip |



ACCESSORIES

- | | |
|---------------------------------|--|
| 9 Welding Mask | 12 Shroud (spare) |
| 10 Chipping Hammer / Wire Brush | 13 Torch Tip (spare) |
| 11 Welding Wire (0.8mm) | 14 Wire Feed Roller 0.8-0.9mm (Fitted) |



ONLINE MANUAL

Scan this QR Code with your mobile device to take you to the online manual.



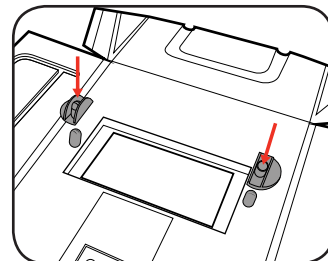
SETUP & PREPARATION

1. WELDING MASK & CARRY STRAP

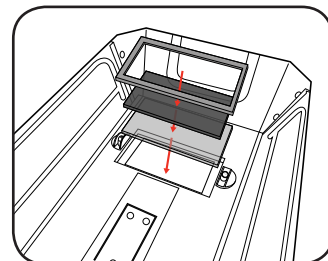
Fitting the Welding Screen

The included welding mask must be fitted with the welding screen and handle before using for welding.

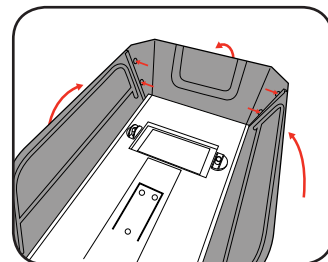
- 1 Insert the glass retaining pins into the holes from the outside of the mask and then fit the retaining clips from the inside. Rotate the clip to allow the glass to be inserted.



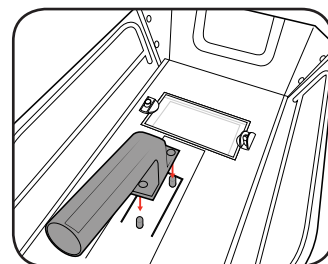
- 2 First insert the clear glass into the recess of the welding mask, followed by the dark safety glass and then the plastic frame. Rotate the retaining clips to lock in position.



- 3 Bend the sides and top of the welding mask inwards and clip together at the corners.



- 4 Insert the 3 screws into the handle mounting holes from the outside. Fit the handle onto the screws from inside the mask and then secure using the 3 nuts.



3 YEAR REPLACEMENT WARRANTY

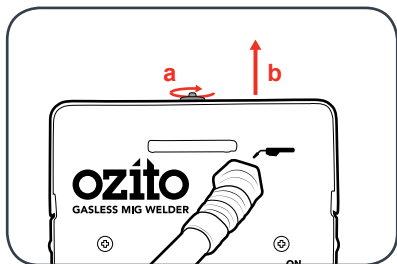
2. FITTING THE WELDING WIRE COIL



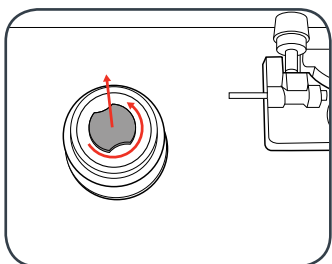
WARNING: ENSURE THE TOOL IS SWITCHED OFF AND DISCONNECTED FROM THE POWER SUPPLY BEFORE PERFORMING ANY OF THE FOLLOWING STEPS.

The MIG welder can be fitted with 0.8mm or 0.9mm gasless welding wire. Welding wire up to 0.4kg can be fitted to this welder.

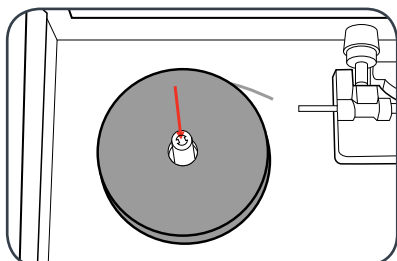
- 1 Open the top cover by rotating the locking knob and then lifting the panel.



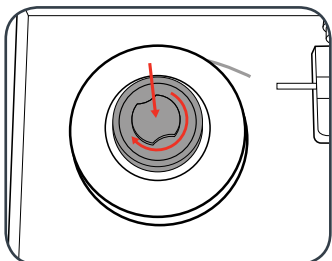
- 2 Remove the wing nut by rotating anti-clockwise and remove the drive washer.



- 3 Slide the welding wire coil onto the shaft. Ensure the unwound end of the welding wire is on the closest side to the wire guide.



- 4 Align the drive washer lug with the slot in the drive shaft and secure with the wing nut by rotating clockwise.



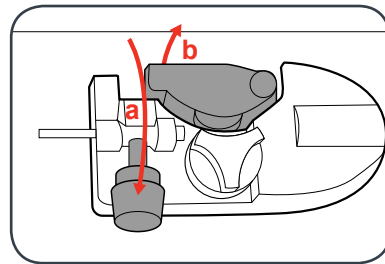
4. WIRE DRIVE ROLLER SIZE



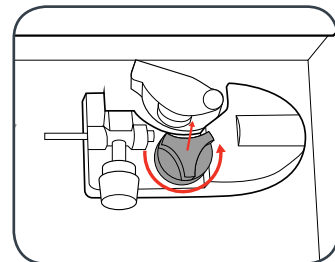
CAUTION: IT IS CRITICAL THAT YOU CHOOSE THE CORRECT WIRE DRIVE ROLLER SIZE.

There are two sizes on the roller included with the MIG welder; one side of the roller suits 0.8mm gasless flux-cored welding wire and the other suits 0.9mm gasless flux-cored welding wire.

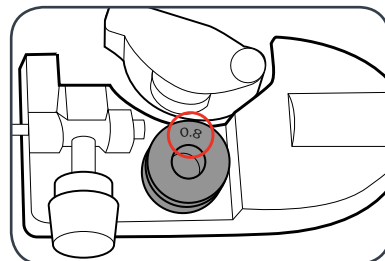
- 1 Rotate the locking arm up and then swing the pressure arm away from the guide roller.



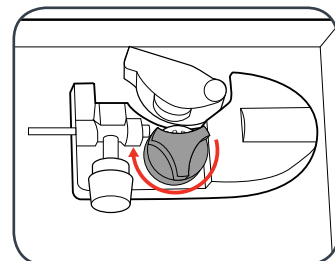
- 2 Rotate the roller locking dial anti-clockwise and lift off.



- 3 Lift the wire drive roller off the shaft and inspect it to confirm the wire groove size stamped on either face. Ensure the wire drive roller size you require is facing upwards when assembled.



- 4 Secure the wire drive roller by fitting the roller locking dial and rotating it clockwise.



OPERATION

5. FEEDING THE WELDING WIRE



WARNING: THE WELDER IS NOT SUITABLE FOR USE IN RAIN.



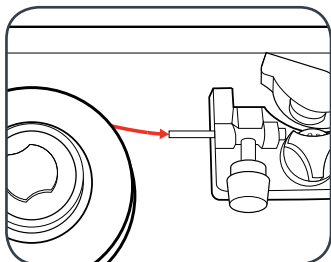
WARNING: THE POWER SUPPLY FOR THIS PRODUCT SHOULD BE PROTECTED BY A RESIDUAL CURRENT DEVICE (RATED AT 30mA OR LESS). A RESIDUAL CURRENT DEVICE REDUCES THE RISK OF ELECTRIC SHOCK.



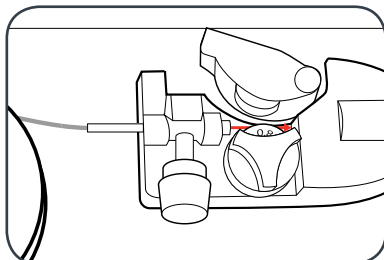
WARNING: ENSURE THAT YOU DO NOT MAKE CONTACT WITH THE EARTH CLAMP AT ANY STAGE WHEN FEEDING THE WELDING WIRE THROUGH THE MIG TORCH. THE ELECTRODE WIRE WILL BE AT WELDING VOLTAGE WHILST IT IS BEING FED THROUGH THE WELDER. KEEP THE MIG TORCH AWAY FROM YOUR EYES AND FACE.

Ensure the welding wire is free from any kinks and bends by removing any damaged wire. When cutting the wire, ensure it is not cut at an angle. It is recommended you lightly file the flat end of the wire prior to feeding.

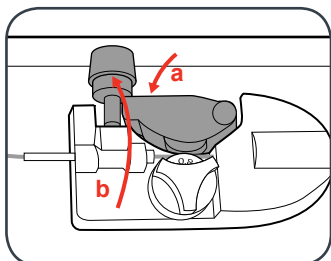
- 1 With the pressure arm swung away from the drive roller, feed the welding wire into the flexible inner tube.



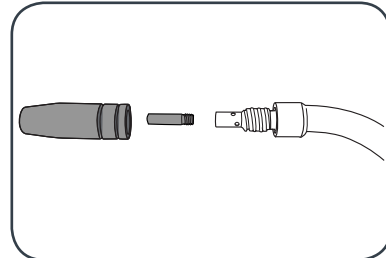
- 2 Feed the wire passed the roller and through the inlet guide ensuring the wire is positioned in the groove of the drive roller.



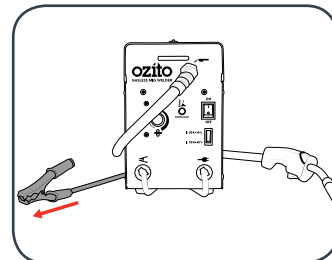
- 3 Push the pressure arm towards the drive roller and secure in place by swinging the locking arm back over the pressure arm.



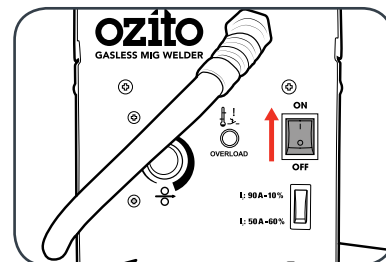
- 4 Remove the shroud and then unscrew the torch tip from the MIG torch by turning anti-clockwise.



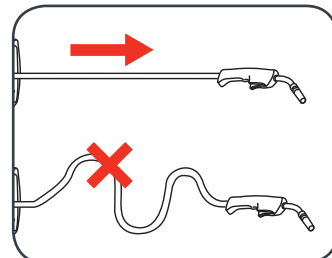
- 6 Ensure the earth clamp is away from the MIG torch and the welder housing



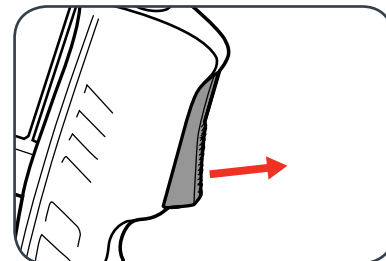
- 7 Plug the power cord into a power supply and switch the on/off switch into the on position.



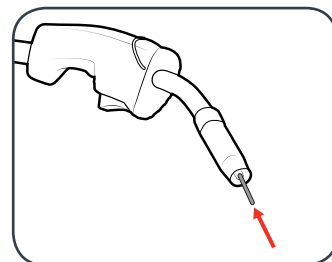
- 8 Ensure the MIG torch lead is straight and depress the MIG torch trigger to feed the wire through.



- 9 Once the wire protrudes out of the end of the MIG torch release the trigger and switch the on/off switch to the off position.



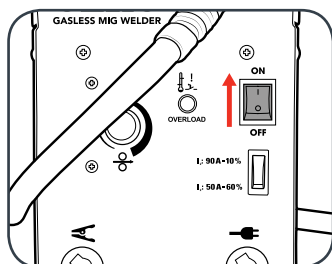
- 10 Fit the appropriate torch tip by rotating clockwise and then refit the shroud. Cut any excess welding wire by leaving approx. 10mm protruding from the end of the torch.



6. CONTROLS

On/Off Switch

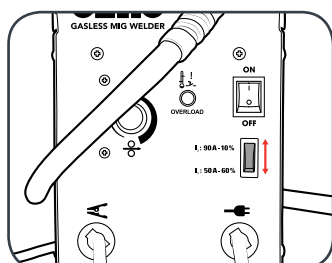
- 1 To switch on, press the on/off switch up into the on position.
- 2 To switch off, press the on/off switch down into the off position.



Output Current Control

The output current switch has 2 settings; 50A and 90A.

- 1 Press the current switch into the desired operating setting.

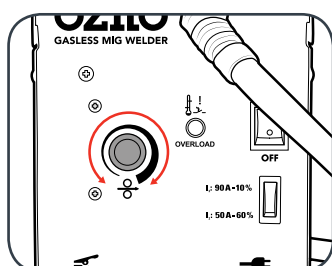


WARNING: THE OUTPUT VOLTAGE CONTROL DIAL MUST NOT BE CHANGED DURING THE WELDING OPERATING AS THIS CAN DAMAGE INTERNAL COMPONENTS OF THE MIG WELDER.

Adjusting the Wire Speed

The wire speed controls the rate at which the wire is feed through the MIG torch and to your workpiece.

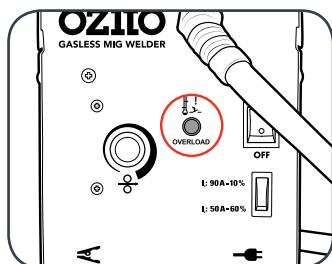
- 1 To increase the wire speed, rotate the wire feed speed dial clockwise.
- 2 To decrease the wire speed, rotate the wire feed speed dial anti-clockwise.



Overload Protection LED

The MIG welder features a self resetting thermostat that helps protect the internal components of the MIG welder.

The overload protection LED will illuminate and welding current will stop once the duty cycle of the power source has been exceeded. If the overload protection LED illuminates, wait for it to turn off before returning to welding operation.



7. MIG WELDING

Preparation

Before welding ensure that:

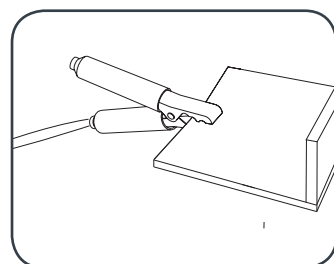
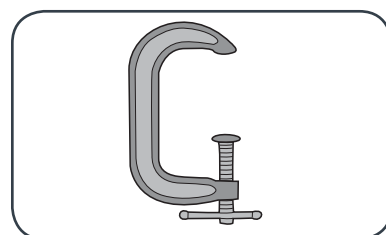
- You have read and understand the safety section of this manual.
- There is sufficient ventilation, particularly at the front and rear of the unit.
- You have an adequate fire-fighting devices on hand.
- You wear adequate protective gear while operating the MIG welder, such as welding gloves and the provided face mask.



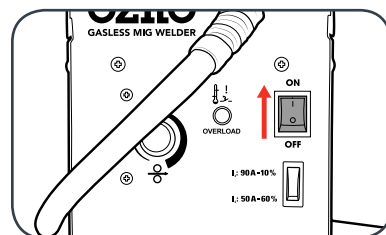
WARNING: ENSURE ALL OIL, PETROL AND FLAMMABLE CONTAINERS HAVE BEEN REMOVED FROM WELDING AREA.

Welding

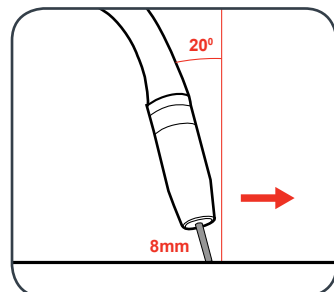
- 1 Ensure that your work piece is securely mounted and is cleaned and prepared ready for welding.
- 2 Attach the earth clamp to the workpiece so that there is a good electrical connection.



- 3 Switch the MIG welder on and position the welding mask in front of your eyes.

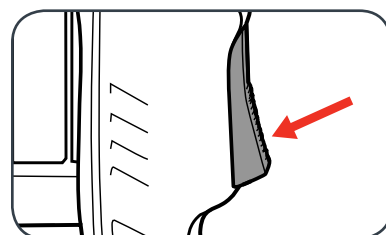


- 4 Position the tip roughly 8mm from the workpiece at an angle of 20° from vertical in the direction of movement.



Note: Cutting the wire about 10mm long and holding the torch so the wire touches the workpiece is a good way to obtain this distance.

- 5 Squeeze the MIG torch trigger to start the weld and once completed release the trigger.



OPERATION

8. WELDING PROPERTIES

There are a range of welding movements used in MIG welding. Generally some form of zig-zag motion is used to ensure the arc acts against both sheets to be welded. Below are some details that may help with the welding process.

Travel Speed

The torch should be moved along at a smooth speed that will give the size of run required. At the same time, the wire is fed downwards to keep the correct welding distance at all times. Excessive travel speeds lead to poor fusion and lack of penetration. While too slow a rate of travel may damage the work piece and can lead to burning a hole through the material.

Electricity

The electricity flows through the wire and will not leave the wire unless it is near an earthed object.

Electricity always finds the fastest path to the earth. When the earth cable clamp is connected to the metal work piece a direct earth connection is created back to the welder. When the wire touches or is near the earthed work piece when the trigger is squeezed, electricity flows through the wire, the metal work piece and then through the earth cable straight back to the welder.

Earth Clamp

Prior to connecting the earth clamp it may be necessary to clean the surface of the work piece using the metal brush. Attach the earth clamp firmly to the work piece ensuring there is good metal to metal contact. Clamp it where it will not be in the way. This clamp provides an earth connection back to the welder.

Welding Wire

There are many variables that you will need to take into account when choosing your welding wire size and type. Below are some of the things you need to take into account when choosing the welding wire:

- Thickness of the material to be welded
- Position and type of welding joint
- Maximum welding capacity of your welder
- How much penetration will be required for strength
- Type of bead desired for the weld
- Whether you are using a shielding gas or not
- Type of material to be welded

WELD SETTINGS CHART

Flux Core Arc Welding				Material Thickness				
Material Being Welded	Suggested Shielding Gas	FCAW Wire Diameter	Suggested Settings	1.2mm	1.5mm	2.0mm	3.0mm	6.0mm
Steel	NO GAS Required	0.8	Current (A)	40	40	70	90	120
			Wire Speed	3~4	4~5	5~6	6~7	8~9
		0.9	Current (A)	40	40	70	90	120
			Wire Speed	3~4	4~5	5~6	6~7	8~9

The above chart is only intended to show general guidelines for different wire sizes and for different thicknesses of material. The settings should only be used at the beginning of a weld and must be adjusted after stopping and carefully inspecting the weld. Proper welding takes good technique and practice.

EQUIPMENT CLASSIFICATION

This product is classified as Group 2, Class A welding equipment.

- Group 2 - This product generates radio frequency energy in the frequency range 9KHz to 400GHz.
- Class A - This product is intended for use in an industrial environment. **Caution:** This equipment is not intended for use in residential environments and may not provide adequate protection to radio reception in such environments.

TROUBLESHOOTING

PROBLEM	CAUSE	REMEDY
GENERAL OPERATION		
No Power	Power supply	Test supply with another product, avoid using extension leads.
	Circuit breaker tripped	Check the rating of the circuit breaker on the supply and other appliances connected to the circuit. The welder is a high power device and it is recommended that it be the only appliance on the circuit to ensure it has enough power to operate.
Welder feeding incorrectly	Wire roller wheel slipping	Increase the pressure on the pressure roller by rotating the adjustable pressure screw in a clockwise direction
	Wire roller is applying too much pressure to the wire	Decrease the pressure on the pressure roller by rotating the adjustable pressure screw in an anti-clockwise direction
Welder cuts out	Thermal overload active	The thermal overload light on the front panel will be on and the welder will not operate until cooled down and the light goes out. This is normal in heavy welding, allow the welder to cool down.

MAINTENANCE



WARNING: THERE ARE EXTREMELY DANGEROUS VOLTAGE AND POWER LEVELS PRESENT INSIDE THIS PRODUCT. DO NOT ATTEMPT TO OPEN OR REPAIR UNLESS YOU ARE A QUALIFIED ELECTRICAL TRADES PERSON.

Disconnect the welding power source from the mains supply voltage before disassembling. Welding equipment should be regularly checked by a qualified electrical trades person to ensure that:

- The main earth wire of the electrical installation is intact.
- The power point for the welding power source is effectively earthed and of adequate current rating.
- Plugs and cord extension sockets are correctly wired.
- Flexible cord is of the 3-core tough rubber or plastic sheathed type of adequate rating, correctly connected and in good condition.
- Welding terminals are shrouded to prevent inadvertent contact or short circuit.
- The frame of the welding power source is effectively earthed.
- Welding leads and electrode holder are in good condition.
- The welding power source is clean internally, especially from metal filing, slag, and loose material. If any parts are damaged for any reason, replacement is recommended.
- Prior to operation, use the terminal spanner to securely tighten the terminal knobs.
-

Cleaning the Drive Rolls

Clean the grooves in the drive rolls frequently. This can be done by using a small wire brush. Also wipe off, or clean the grooves on the upper drive roll. After cleaning, tighten the drive roll retaining screws.



CAUTION: DO NOT USE COMPRESSED AIR TO CLEAN THE WELDING POWER SOURCE. COMPRESSED AIR CAN FORCE METAL PARTICLES TO LODGE BETWEEN LIVE ELECTRICAL PARTS AND EARTHED METAL PARTS WITHIN THE WELDING POWER SOURCE. THIS MAY RESULT IN ARCING BETWEEN THE PARTS AND THEIR EVENTUAL FAILURE.

Note: Ozito Industries will not be responsible for any damage or injuries caused by the repair of the tool by an unauthorised person or by mishandling of the tool.

IMPORTANT INFORMATION

Thermal Overload

IF YOUR WELDER OVERHEATS AND THE THERMAL OVERLOAD PROTECTION ENGAGES DO NOT TURN YOUR WELDER OFF AS THE FAN WILL ASSIST IN REDUCING THE COOLING TIME.

All Welders have a feature called a duty cycle.

Duty cycle on a welder refers to the time in which the welder operates during normal welding.

A welder can only weld for a certain continuous period of time before it requires to cool down.

If the internal components of the welder should become hot the welder could overheat. If the welder overheats the Thermal Overload Protection feature will automatically shut down the welder.

THIS CAN OCCUR IN HEAVY USE AND DOES NOT INDICATE A FAULT.

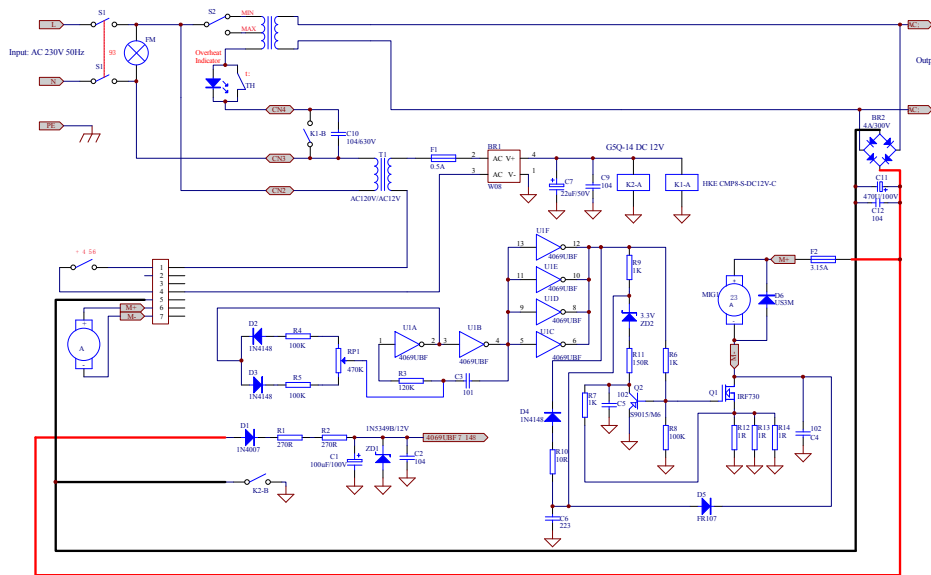
The Welder will cease to weld and the Thermal Overload LED light will turn on. This LED indication light is just to inform you that your welder is becoming too hot and requires to cool down to protect the internal components of the welder. Do Not turn your welder Off as the welder has an internal cooling fan and this will assist your welder to cool down quicker. Reducing the cooling time will enable you to get back to your welding job quicker.

Depending on how many Amps or how heavy the welding you are doing the cooling time may take up to 10 Minutes for your welder to cool down so you can return to your welding job.

DESCRIPTION OF SYMBOLS

V	Volts	Hz	Hertz
~	Alternating current	W	Watts
m/min	Revolutions or reciprocation per minute	A	Amperes
U1	Rated AV input voltage (with tolerance $\pm 10\%$)	X	load duration rate
I1max	Rated maximum input current	I1eff	Maximum effective input current
U0	Non-load voltage	U2	On-load voltage
Vmax	Max. wire feeding speed	IP	Protection class
A/V	Electric current adjustment range, and the relevant on-load voltage	S	Used in the environment which has high risk of electric shock
	Symbol of single-phase AV power and rated frequency		MAG welding
	Do not operate in the rain		Read instruction manual
	Regulator compliance mark		Warning

CIRCUIT DIAGRAM



CARING FOR THE ENVIRONMENT



Power tools that are no longer usable should not be disposed of with household waste but in an environmentally friendly way. Please recycle where facilities exist. Check with your local council authority for recycling advice.



Recycling packaging reduces the need for landfill and raw materials. Reuse of recycled material decreases pollution in the environment. Please recycle packaging where facilities exist. Check with your local council authority for recycling advice.

SPARE PARTS

Replacement torch tips (Tweco type) and shroud (Binzel type) can be purchase at your local Bunnings Warehouse.

- | | |
|-----------------|--------------|
| 1 Earth Clamp | SPMWR9045-1 |
| 3 Welding Torch | SPMWR9045-3 |
| 47 Guide Wheel | SPMWR9045-47 |

Spare parts can be ordered from the Special Orders Desk at your local Bunnings Warehouse.

For further information, or any parts not listed here, visit www.ozito.com.au or contact Ozito Customer Service:

Australia 1800 069 486

New Zealand 0508 069 486

E-mail: enquiries@ozito.com.au

ELECTRICAL SAFETY



WARNING! When using mains-powered tools, basic safety precautions, including the following, should always be followed to reduce risk of fire, electric shock, personal injury and material damage.

Read the whole manual carefully and make sure you know how to switch the tool off in an emergency, before operating the tool.

Save these instructions and other documents supplied with this tool for future reference.

The electric motor has been designed for 230V and 240V only. Always check that the power supply corresponds to the voltage on the rating plate.

Note: The supply of 230V and 240V on Ozito tools are interchangeable for Australia and New Zealand.

If the supply cord is damaged, it must be replaced by an electrician or a power tool repairer in order to avoid a hazard.

Using an Extension Lead

Always use an approved extension lead suitable for the power input of this tool. Before use, inspect the extension lead for signs of damage, wear and ageing. Replace the extension lead if damaged or defective.

When using an extension lead on a reel, always unwind the lead completely. Use of an extension lead not suitable for the power input of the tool or which is damaged or defective may result in a risk of fire and electric shock.

The power supply for this product should be protected by a residual current device (rated at 30mA or less). A residual current device reduces the risk of electric shock.

GENERAL POWER TOOL SAFETY WARNINGS



WARNING! Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference. The term “power tool” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1. **Keep work areas clean.** Cluttered work areas and benches can cause accidents.
2. **Consider work area environment.** Do not expose your equipment to high humidity or rain. Do not use your equipment in damp or wet conditions. Keep the work area well lit. Do not use your tool where there is a risk of causing fire or explosion, e.g. in the presence of flammable liquids and gases.
3. **Keep children away.** Do not allow children, visitors or animals to come near the work area or to touch the equipment or accessories.
4. **Dress appropriately.** Wear the appropriate protective clothing. Wear a protective hair covering to keep long hair out of the way.
5. **Guard against electric shock.** Prevent body contact with earthed or grounded surfaces. Electrical safety can be further improved by using a high sensitivity (30 mA / 30 mS) residual current device (RCD).
6. **Do not overreach.** Keep proper footing and balance at all times.
7. **Stay alert. Watch what you are doing.** Use common sense. Do not operate the equipment when tired.
8. **Secure work piece. If required,** use clamps or a vice to hold the work piece.
9. **Extension leads.** Before use inspect the extension leads and replace if damaged. When using the equipment outdoors, only use extension leads intended for outdoor use and marked accordingly.
10. **Use appropriate equipment.** Only use the equipment as outlined within this instruction manual. Do not force the equipment to the job of heavier duty equipment. The equipment will do the job better and safer at the rate for which it was intended. Do not force the equipment.



WARNING! The use of any accessory or attachment, or performance of any operation with this equipment other than those recommended in this instruction manual may present a risk of personal injury.

11. **Check for damaged parts.** Before use carefully check the equipment and power lead for damage. Check for misalignment and seizure of moving parts, breakage of parts, damage to guards and switches and any other conditions that may affect its operation. Ensure the equipment will operate properly and perform its intended function. Do not use the equipment if any parts are damaged or defective. Do not use the equipment if the switch does not turn it on and off. Have any damaged or defective parts repaired or replaced by an electrician or a power tool repairer. Never attempt any repairs yourself
12. **Unplug the equipment.** Unplug the equipment when it is not in use, before changing any parts, accessories or attachments and before servicing.
13. **Do not abuse the cord.** Never carry the equipment by its cord or pull it to disconnect from the socket. Keep the cord away from heat, oil and sharp edges.
14. **Store equipment.** When not in use, equipment should be stored in a dry, locked up or high place, out of reach of children.
15. **Maintain mains equipment with care.** Keep the equipment clean and in good condition for better and safer performance. Follow the instructions for maintenance and changing accessories. Keep handles and switches dry, clean and free from oil and grease.
16. **Have your tool repaired by an electrician or a power tool repairer.** This power tool complies with relevant safety requirements. To avoid danger, electrical equipment must only be repaired by qualified technicians using original spare parts; otherwise this may result in considerable danger to the user.
17. **Users.** This equipment is not intended for use by young children or infirmed persons without supervision. Young children should be supervised to ensure that they do not play with this equipment.
18. **Replacement of the supply cord.** If the supply cord is damaged, it must be replaced by an electrician or a power tool repairer in order to avoid a hazard.

MIG WELDER SAFETY WARNINGS

- Under no circumstances should the housing of the welder be opened.
- Always protect your eyes and face with a welding mask.
- Wear appropriate protective clothing such as a welding apron and sleeved gloves etc.
- Avoid exposing skin as UV rays are produced by the arc.
- Screen off the work place to protect others working nearby from UV rays.
- Welding materials with contaminated surfaces may generate toxic fumes. Ensure the surface is clean before welding. Avoid operating on materials cleaned with chlorinated solvents or near such solvents.
- Do not weld metal equipment that holds/contains flammable materials, gases or liquid combustibles.
- Zinc-plated or galvanized material should not be welded as the fumes created are highly toxic.
- Do not use the welder in damp or wet conditions.
- Do not use the welder for pipe thawing.
- Do not use cables with worn insulation or loose connections.
- Disconnect from the power supply before replacing electrodes.
- Avoid direct contact with the welding circuit.
- Do not use the welder to defrost piping.
- Ensure the welder is placed on a level surface to prevent overturning.
- Provide adequate ventilation or a means for removal of the welding fumes produced (forced circulation using a blower or fan).

Important Information about Radio Electromagnetic Compatibility

Extra precautions for Electromagnetic Compatibility may be required when this Welding Power Source is used in a domestic situation.

It is the user's responsibility to install and use the equipment properly in accordance with the instructions issued by the manufacturer. If electromagnetic disturbances are detected then it shall be the responsibility of the user of the equipment to resolve the situation with the following guidelines.

Precautions to consider in the surrounding area that may cause/be affected by electromagnetic disturbances

- Other supply cables or signal cables in close proximity to the welding equipment
- Radio and television transmitters and receivers
- Computer or electronic equipment
- Personal medical devices (pacemakers and hearing aids)

Methods of reducing electromagnetic disturbances

- If interference occurs when the equipment is connected to the mains power supply in a residential (domestic) low voltage power network, an electromagnetic filter may be required.
- The Welding cables should not be modified and kept as short as possible.
- Nearby cables and equipment may need to be moved or shielded.

Fumes

Toxic gases are given off during the ARC welding process, which may collect in the welding area if the ventilation is poor. Be alert at all times to the possibility of fume build-up. In small or confined areas use a fume extractor.

Glare

The electric arc generated by the arc process gives direct heat and ultraviolet radiation. It is essential that the eyes of the operator and bystanders are protected from the glare during welding.

ALWAYS USE A FACESHIELD OR WELDING HELMET FITTED WITH THE CORRECT GLASS FILTER.

Position and Handling

Position the welding machine on a horizontal surface that is able to support the weight: otherwise (e.g. inclined or uneven floors etc.) there is danger of overturning.

The welder MUST NOT be supported by the operator (e.g using belts).

The operator MUST NOT BE ALLOWED to weld in raised positions unless safety platforms are used.

Heat

It is desirable that welding gloves are worn whilst welding. They will protect the hands from ultra-violet radiation and direct heat of the arc.

Dress

In addition to face shield, welding gloves and overalls, other types of protective clothing should be worn when welding. Additional protective clothing such as a leather apron, sock protectors and a hat will all assist in reducing any injuries due to heat, sparks and slag produced during welding.

OVERALLS should also be worn. They should be of type designed to be buttoned at the wrists and the neck.