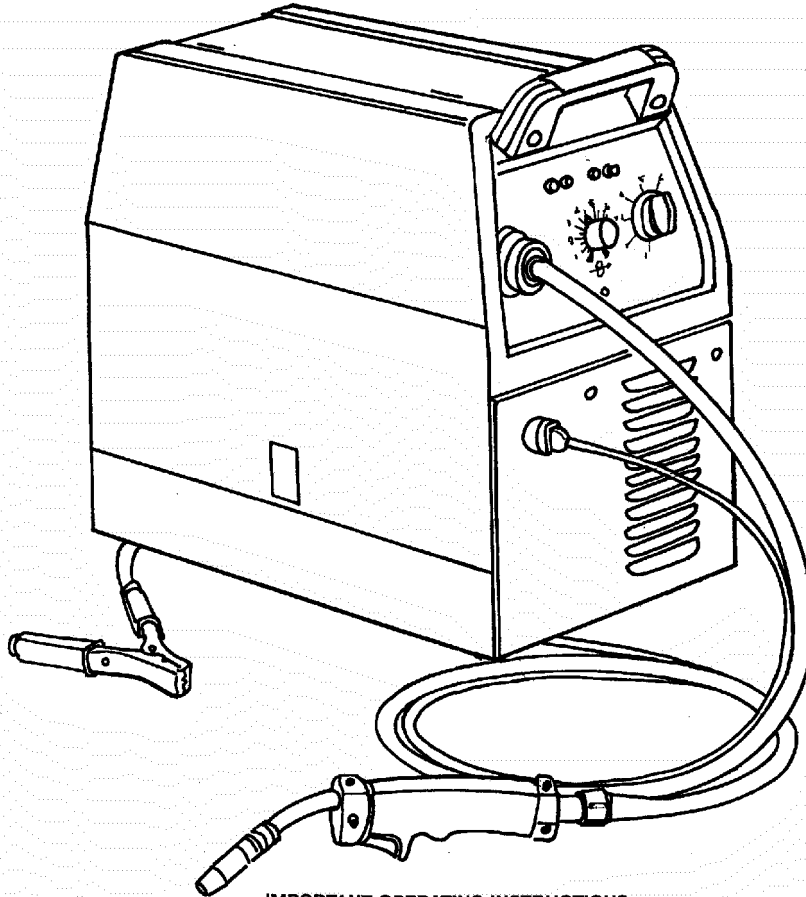


**OPERATING INSTRUCTIONS
MANUEL D'INSTRUCTIONS
MANUAL DE INSTRUCCIONES**

FOR MODELS:

MIG 115



**IMPORTANT OPERATING INSTRUCTIONS
SAVE THESE INSTRUCTIONS**

3.300.873

1025 SAUNDERS LANE
WEST CHESTER, PA 19380
800 - 222 - 9353

2/03

Form No.
Z MIG115



DANGER



- Electric welding or plasma cutting cause ultraviolet rays and weld spatter. Bystanders will be exposed to ultraviolet rays and weld spatter.
Wear welding helmet with appropriate shade lens while using electric welders or plasma cutters.



- **Do not allow bystanders while welding or cutting.**
Wear safety shield and protective clothing (user and bystanders).
Read and follow instructions.



Ultraviolet rays will burn eyes; weld spatter can cause injury.



WARNING



- Acetylene gas does not burn safely with YA1500 or YA1550 torches.
Do not use YA1500 or YA1550 torches with acetylene gas.
Read and follow instructions.



Uncontrolled burning can cause injury.



- Materials can cause sparks or flying metal when heated which can cause fire.

Wear safety shield and protective clothing (user and bystanders).



Sparks, fire and flying metal can cause injury.



WARNING



- Electrical shock can result from absence of grounding prong.
Do not remove or bypass the grounding prong in any electrical plug.
Electrical shock can cause injury.

- Smoke, fumes and gases are created by the welding process.

Use only in well ventilated area.

Avoid breathing smoke, fumes and gases.

Smoke, fumes and gases can cause injury.

INSTRUCTION MANUAL FOR WIRE WELDING MACHINES

WARNING!
 READ, UNDERSTAND AND FOLLOW THIS MANUAL CAREFULLY BEFORE INSTALLING, USING, OR SERVICING THE WELDING MACHINE, PAYING SPECIAL ATTENTION TO SAFETY RULES. CONTACT YOUR DEALER IF YOU DO NOT FULLY UNDERSTAND THESE INSTRUCTIONS.

1 INSTALLATION

This machine must be used for welding only. It must not be used to defrost pipes. It is also essential to pay special attention to the chapter on SAFETY PRECAUTIONS.

The symbols next to certain paragraphs indicate points requiring extra attention, practical advice or simple information.

This manual must be stored carefully in a place familiar to everyone involved in using the machine. It must be consulted whenever doubts arise and be kept for the entire life-span of the machine; it will also be used for ordering replacement parts.

1.1 PLACEMENT

Unpack the machine and place it in an adequately ventilated area, dust-free if possible, taking care not to block the air intake and outlet from the cooling slots.

CAUTION!
 REDUCED AIR CIRCULATION causes overheating and could damage internal parts. Keep at least 20 inches of free space around the machine. Never place any filtering device over the air intake points of this welding machine. The warranty shall become void if any type of filtering device is used. Mount the parts supplied with the machine as shown in the figure 1.

2 DESCRIPTION OF THE MACHINE

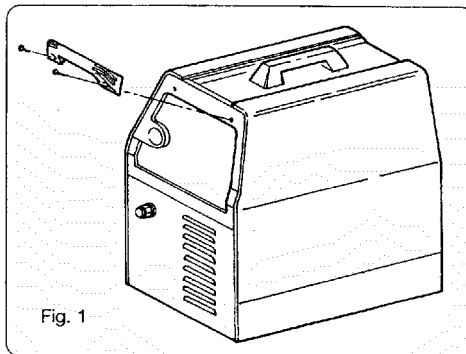


Fig. 1

- A) **Switch**
 Turns the machine on and off, and also regulates the welding voltage range.
- B) **Setting knob**
 This knob serves to adjust the welding wire speed.

- C) **Ground cable**
- D) **Yellow LED**
 Lights only when the thermostat is tripped and interrupts the machine operation.
- E) **Green LED**
 Indicates that the machine is turned on.
- F) **Welding torch**
- G) **Handle**
 Must not be used to lift the machine.

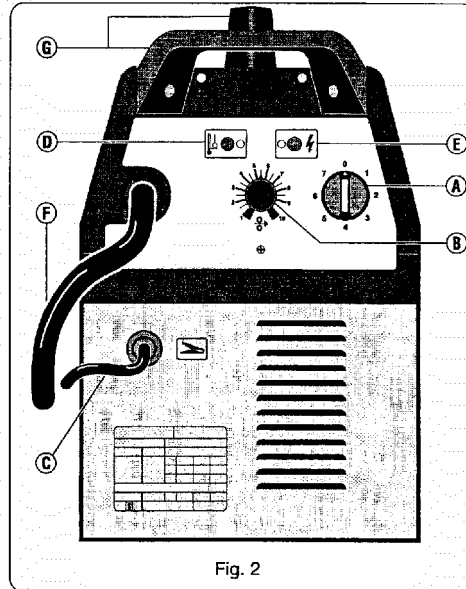


Fig. 2


3 GENERAL DESCRIPTIONS

3.1 SPECIFICATIONS

This welder is used for welding soft steel, stainless steel and aluminium.

3.2 EXPLANATION OF TECHNICAL SPECIFICATIONS

- CSA The welding machine is built according to these international standards.
- N° Serial number, which must always be indicated in any inquiry regarding the welding machine.
- U₀ Secondary no-load voltage (peak value)
- X The duty cycle expresses the percentage of 10 minutes during which the welding machine can run at a certain current without overheating. Example: X = 60% at I₂ = 100 A
 This means that the machine can weld with a current I₂ = 100A for 6 out of 10 minutes, thus 60%.
- I₂ Welding current
- U₂ Secondary voltage with welding current I₂
- U₁ Rated power voltage.
- 1-60Hz Single-phase 60-Hz power supply.

SERIES		N°		
U ₀ MAX. O.C.V.	X			CLASS OF INSULATION ISOLIERSTOFFKLASSE CLASSE DES ISOLANTS CLASSE DE AISLAMENTO CLASSE DI ISOLAMENTO
	I ₂			
1~ 60Hz	U ₂			THERMAL PROTECTION THERMISCH GESCHÜTZT PROTECTION THERMIQUE PROTECCION TERMICA PROTEZIONE TERMICA
	I ₁			
	U ₁			FORCED VENTILATION KÜHLART F VENTILE VENTILACION FORZADA VENTILAZIONE FORZATA
 NRTL/C				IP 21

- I₁ Current absorbed at the corresponding welding current I₂
- IP21 Degree of housing protection.
Grade one as the second digit means that this device is not suitable for use outdoors in the rain.

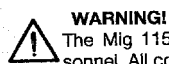
3.3 DESCRIPTION OF PROTECTION

This device is protected by a normally closed thermostat on the power transformer.

When the thermostat is tripped the machine stops welding, while the motor-driven fan continues to run and the yellow LED lights.

After it has been tripped, wait a few minutes to allow the transformer to cool down.

4 INSTALLATION



WARNING!

The Mig 115 must be installed by qualified personnel. All connections must be made in full compliance with all applicable rules and regulations. Make sure that the wire diameter corresponds to the one indicated on the roller, and mount the wire reel. Make sure that the welding wire passes through the groove in the small roller 7.

Before connecting the power cable 23, make sure that the power voltage corresponds to that of the welder, then:

- for permanent connection to the power mains without a plug, you must insert a main switch having a suitable capacity in compliance with the rated specifications.
- for a plug-socket connection, use a plug having a suitable capacity in compliance with the rated specifications. In this case the plug must be used to completely disconnect the machine from the mains, after setting the switch 47 to "O" (off).

The yellow-green wire must be connected to the ground terminal. Connect the ground clamp 37 to the part to be welded. The welding circuit must not be deliberately placed in direct or indirect contact with the protection wire except in the workpiece.

If the workpiece is deliberately grounded using the protection wire, the connection must be as direct as possible, using a wire at least as large as the welding current return wire, and connected to the workpiece at the same point as the return wire, using the return wire clamp or a second grounding clamp placed next to it. All precautions must be taken to avoid stray welding currents.

Turn the machine on using the switch 47.

Remove the tapered gas tip 44 by turning it clockwise. Unscrew the contact tip 43.

Do not press the torch trigger until you have read the instructions carefully.

It is important to make sure the machine is turned off whenever changing the wire reel and wire roller, to prevent the wire feed motor from starting accidentally.

Press the torch trigger 39 and release it only when the welding wire comes out.

Welding wire can cause puncture wounds.

Never aim the torch at parts of the body, other people or metals when loading the welding wire.

Screw the contact tip 43 back on, making sure that the hole diameter corresponds to the wire used.

Slide the tapered gas welding tip 44 on, always turning clockwise.

4.1 CONNECTING THE GAS HOSE

- The gas cylinder must be equipped with a pressure regulator and gauge.
 - If the cylinder is placed on the cylinder holder of the machine, it must be held in place by the chain provided and be of an appropriate size to avoid jeopardizing the stability of the machine.
 - Connect the gas hose leaving the back of the machine to the pressure regulator only after the cylinder is in place.
 - Open the gas cylinder and set the gauge to approximately 8-10 lt./min.
- CAUTION: Make sure the gas used is compatible with the material to be welded.

4.2 GENERAL NOTES

Before using this welder, carefully read the regulations CEI 26/9 or CENELEC HD 407 and CEI 26/11 or CENELEC HD 433. Also make sure that the insulation on cables, torch and ground cable is intact.

5 WELDING

5.1 WELDING MILD STEEL

5.1.1 With shielding gas.

Either 75% ARGON + 25% CO₂ or 100% CO₂ may be used for welding mild steel.

Connect the cables as shown in the figure 3.

Select the welding current by means of the rotary switch 47. Move the torch near the welding point and press the trigger 39.

Adjust the potentiometer knob 2 until the welding is done

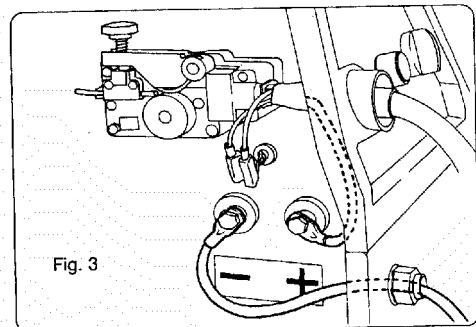
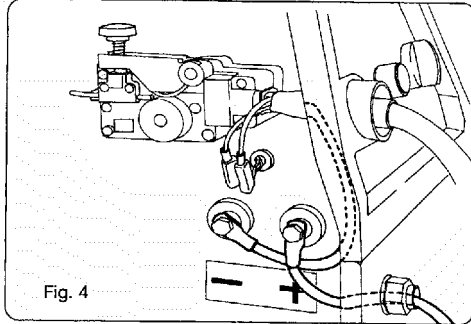


Fig. 3

with a constant, continuous noise.
 If the speed is too fast, the wire tends to stick to the piece and cause the torch to skip; if the speed is too low, the wire melts in spaced drops or the arc does not remain lit. When you have finished welding, turn off the machine and close the gas cylinder.
 For the correct welding angle see figure 5.

5.1.2 Without shielding gas.

Connect the cables as shown in the figure 4.



Use only diam. 0.9 flux cored wire that complies with the standard AWS AS.20 E71 TII or E71 TGS, suitable for use without shielding gas.

Connect the ground cable clamp to the workpiece. After connecting the cables, follow the instructions given in paragraph 5.1.1.

NOTE: For compact, well-protected welds always work from left to right and from top to bottom. Remove all waste after each welding operation. For the correct welding angle see figure 5.

5.2 WELDING ALUMINIUM

The welder must be prepared as for welding mild steel with gas protection, but with the following differences:

- 100% ARGON as the shielding gas for welding.
- A wire having a composition suited to the base material to be welded.

For welding ALLUMAN: 3÷5% silicon wire

- For welding ANTICORODAL: 3÷5% silicon wire

- For welding PERALUMAN: 5% magnesium wire

- For welding ERGAL: 5% magnesium wire

Use grinding wheels and brushes specifically designed for aluminium, and never use them on other materials. REMEMBER that cleanliness is quality!

The wire reels must be stored in nylon bags with dehumidifying packets.

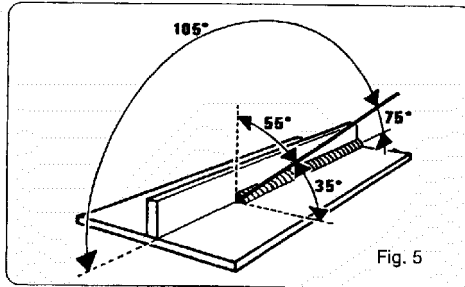
For the correct welding angle see figure 5.

5.3 WELDING STAINLESS STEEL

The welder must be prepared as for welding mild steel with gas protection, but with the following differences:

- Reel of stainless steel wire compatible with the composition of the material to be welded.
- Cylinder containing 98% ARGON + 2% O₂ (recommended composition)

The recommended torch angle and welding direction are shown in figure 5.



6 MAINTENANCE AND CHECKS

6.1 GENERAL NOTES



WARNING!

- Turn off the welder and unplug the power cord from the socket before each checking and maintenance operation.



- Moving parts can cause serious injuries.
- Keep away from moving parts.



GLOWING HOT SURFACES can cause serious burns.

- Let the unit cool before servicing.
- Periodically remove any dust or foreign matter that may have deposited on the transformer or diodes; to do so, use a jet of clean, dry air.
- When replacing the wire roller, make sure the groove is aligned with the wire and corresponds to the diameter of the wire used.
- Always keep the interior of the gas nozzle clean to avoid metal bridges created by welding dross between the gas nozzle and the contact tip. Make sure the outlet hole of the contact tip has not expanded excessively; if so, replace.
- Strictly avoid striking the torch or allowing it to suffer violent impact.

6.2 TROUBLESHOOTING GUIDE

PROBLEM	PROBABLE CAUSE	REMEDY
The welding machine supplies limited current	Line fuse blown	Replace line fuse
	Burnt out diode or diodes	Replace
	Burnt out electronic board	Replace
	Loose torch or ground connections or any other electrical power connections	Tighten all connections
Welding with a lot of metal spatter	Voltage adjustment switch has a loose contact	Replace the switch
	Improper adjustment of welding parameters	Select the correct parameters through the welding-voltage switch and the wire-speed adjustment potentiometer
	Poor ground connection	Check grounding connections
The wire jams or entangles between the drive rolls and the torch infeed wire guide	Contact tip with wrong diameter	Replace
	Misalignment of the drive roll groove	Realign
	Obstructed or clogged liner	Remove and clean
No wire feed or irregular wire feed	Drive roll with too large a groove	Replace the drive roll
	Obstructed or clogged liner	Remove and clean
	Wire holding roller not completely tightened	Tighten all the way
	Clogged contact tip	Replace
	Insufficient shielding gas	Increase gas delivery
Porosity in the welding seam	Excess oxidation of the edges to be welded	Thoroughly clean the edges with a metal brush
	Gas nozzle partially or completely clogged by spatter	Remove and clean or replace being careful not to clog the gas outlets

7 SAFETY PRECAUTIONS

7.1 FIRE



WARNING!

- Avoid causing fire because of sparks, slag, hot metal or pieces.
- Make sure that suitable fire-fighting equipment is available close to welding area.
- Remove all flammable and combustible material from the welding area and its surrounding (32 ft minimum).
- Do not weld containers of combustible or flammable material, even when empty.
- Allow the welded material to cool down before touching it or putting it in contact with combustible or flammable material.
- Do not weld parts with hollow spaces, containing flammables.
- Do not work under conditions with high concentrations of combustible vapours, gases, or flammable dust.
- Always check the work area half an hour after welding so as to make sure that no fire has started.
- Do not keep any combustible material such as lighters or matches in your pockets.

7.2 BURNS



WARNING!



● Wear protective clothing in order to protect against burns caused by ultraviolet radiation given off by the arc, and from weld metal sparks and slag.



● Wear protective gloves designed for use in welding, hat and high safety-toe shoes. Button shirt collar and pocket flaps, and wear cuff-less trousers to avoid entry of sparks and slag.



● Wear helmet with safety goggles and glasses with side shields underneath, appropriate filter lenses or plates (protected by clear cover glass). This is a MUST for welding to protect the eyes from radiant energy and flying metal. Replace cover glass when broken, pitted, or spattered.



● Avoid oil or greasy clothing. A spark may ignite them. Hot metal such as electrode stubs and workpieces should never be handled without gloves.



● Ear plugs should be worn when working on overhead or in a confined space. A hard hat should be worn when others work overhead.

● Flammable hair preparations should not be used by persons intending to weld or cut.

7.3 FUMES



WARNING!



Welding operations give off harmful fumes and metal dusts which may be hazardous to your health, therefore:

- Work in a well-ventilated area.
 - Keep your head out of fumes.
 - In closed areas, use suitable exhaust fans.
 - If ventilation is not enough, use breathing apparatus approved for this procedure.
 - Clean the material to be welded of any solvents or halogen degreasers. Some chlorine solvents may decompose with the radiation emitted by the arc, and create phosgene gas.
 - Do not weld plated metals or those containing lead, graphite, cadmium, zinc, chrome, mercury or beryllium, unless you have the proper breathing apparatus.
 - The electric arc creates ozone. A long exposure to high concentrations may cause headaches, nasal, throat and eye irritation as well as serious congestions and chest pains.
- IMPORTANT: DO NOT USE OXYGEN FOR VENTILATION.**
- Gas leaks in a confined space should be avoided. Leaked gas in large quantities can change oxygen concentration dangerously. Do not bring gas cylinders into a confined space.
 - DO NOT WELD where solvent vapors can be drawn into the welding atmosphere or where the radiant energy can penetrate to atmospheres containing even minute amounts of trichloroethylene or perchloroethylene.

7.4 EXPLOSIONS



WARNING!



Do not weld above or near containers under pressure.

- Do not weld in environments containing explosive dusts, gases or vapors. This welding machine uses inert gases such as CO₂, ARGON, or a mixture of ARGON + CO₂ for the protection of the arc, thus you should take special precautions:

A) CYLINDERS

- Do not directly connect cylinder to the machine gas hose without a pressure regulator.
- Handle or use pressure cylinders in conformity with the existing rules.
- Do not use leaking or damaged cylinders.
- Do not use cylinders which are not well secured.
- Do not carry cylinders without the protection of the installed valve.
- Do not use cylinders whose content has not been clearly identified.
- Never lubricate cylinder valves with oil or grease.
- Do not put the cylinder in electrical contact with the arc.
- Do not expose cylinders to excessive heat, sparks, molten slags or flame.
- Do not tamper with the cylinder valves.
- Do not try to loosen tight valves by means of hammers, keys, or any other object.
- NEVER DEFACE or alter name, number, or other markings on a cylinder.
- Do not lift cylinders off the ground by their valves or caps, or by chains, slings or magnets.
- Never try to mix any gases in a cylinder.
- Never refill any cylinder.
- Cylinder fittings should never be modified or exchanged.

B) PRESSURE REGULATORS

- Keep pressure regulators in good condition. Damaged regulators may cause damages or accidents, they should only be repaired by skilled personnel.
- Do not use regulators for gases other than those for which they are manufactured.
- Never use a leaking or damaged regulator.
- Never lubricate regulators with oil or grease.

C) HOSES

- Replace hoses which appear damaged.
- Keep the excess hose wound and out of the working area in order to avoid any damage.

7.5 RADIATIONS



WARNING!



Ultra-violet radiation created by the arc may damage your eyes and burn your skin. Therefore:



- Wear proper clothing and helmet.
- Do not use contact lenses!!

The intense heat coming from the arc may cause them to stick to the cornea.

- Use masks with grade DIN 10 or DIN 11 safety lenses at the least.
- Protect people in the surrounding welding area. Remember: the arc may dazzle or damage the eyes. It is considered dangerous up to a distance of 15 meters (50 feet). Never look at the arc with the naked eye.
- Prepare the welding area so as to reduce reflection and transmission of ultra-violet radiation. Install sheathings or curtains to reduce ultra-violet transmissions.
- Replace mask lenses whenever damaged or broken.

7.6 ELECTRIC SHOCK



WARNING!



Electric shock can kill.

All electric shocks are potentially fatal.

- Do not touch live parts.
- Insulate yourself from the piece to be welded and from the ground by wearing insulated gloves and clothing.
- Keep garments (gloves, shoes, hats, clothing) and body dry.
- Do not work in humid or wet areas.
- Avoid touching the piece to be welded.
- Should you work close to or in a dangerous area, use all possible precautions.
- If you should feel even the slightest electric shock sensation, stop welding immediately. Do not use the machine until the problem is identified and solved.
- Have an emergency disconnect switch as close to the machine as possible and make sure all personnel are aware of the switch's location.
- Frequently inspect the power supply cable.
- Disconnect power supply cable from mains before replacing cables or before removing unit covers.
- Do not use the unit without installed covers.
- Always replace any damaged parts of the unit, with original material.
- Never disconnect unit safety devices.
- Make sure that the power supply line is equipped with a properly grounded plug.
- Make sure that the work bench is connected to a good earth ground.
- Any maintenance should only be carried out by qualified personnel.

7.7 PACE MAKER



WARNING!

- Magnetic fields from high currents can affect pace-maker operation. Persons wearing electronic life support equipment (pacemaker) should consult their doctor before going near any welding operations.

7.8 WELDING WIRE CAN CAUSE PUNCTURE WOUNDS.



WARNING!

- Do not press gun trigger until instructed to do so.
- Do not point gun toward any part of the body, other people, or any metal when threading welding wire.

7.9. MOVING PARTS CAN CAUSE INJURY.



WARNING!



Moving parts, such as fans, can cut fingers and hands and catch loose clothing.

- Keep all doors, panels, covers, and guards closed and securely in place.
- Have only qualified people remove guards or covers for maintenance and troubleshooting as necessary.
- Keep hands, hair, loose clothing, and tools away from moving parts.
- Reinstall panels or guards and close doors when servicing is finished and before starting the machine.

7.10 NOISE

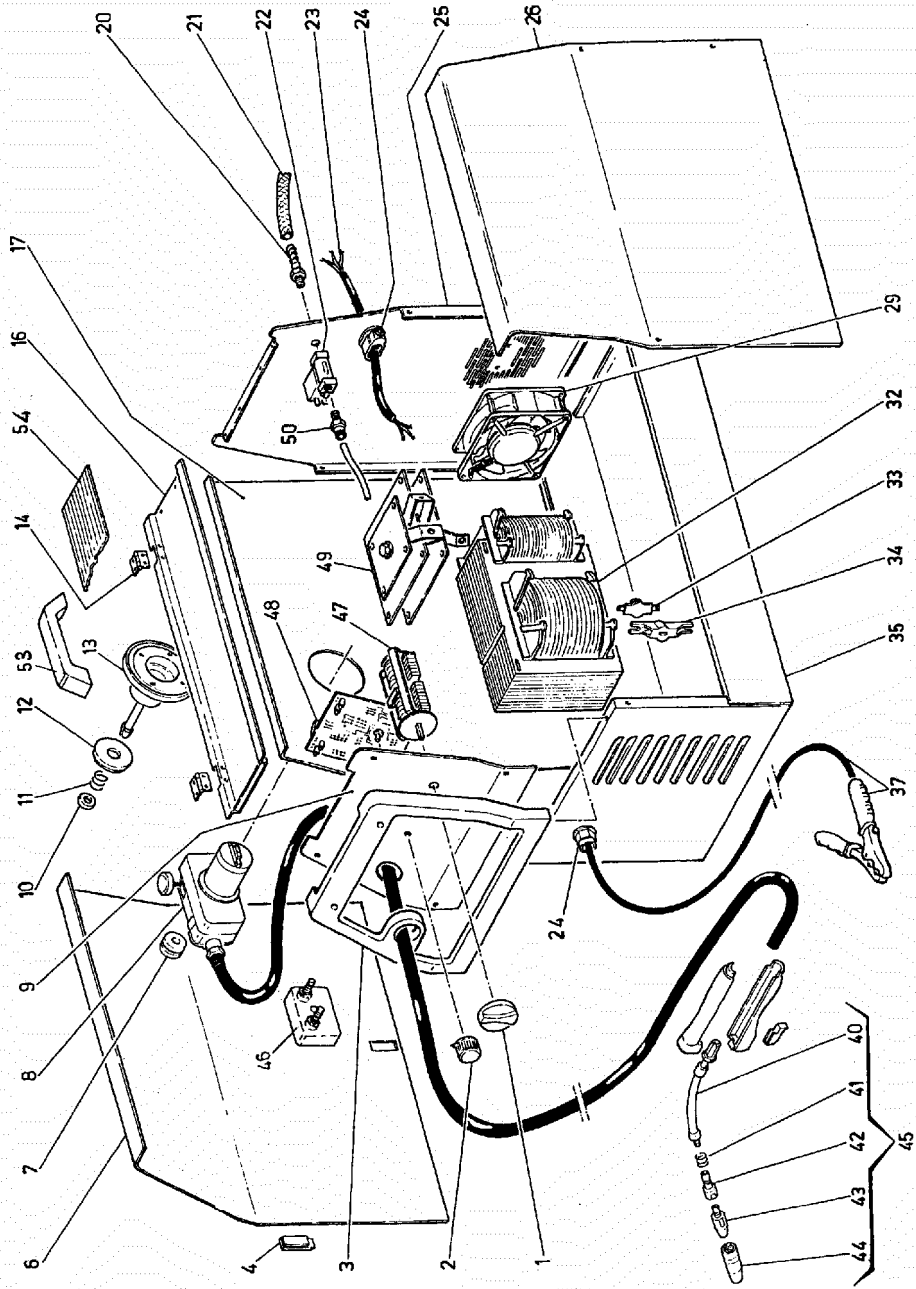


WARNING!



The welding procedure may produce noise levels in excess of 80 dB. in which case the machine operator must take the necessary safety precautions as prescribed by the national safety regulation.

MODEL MIG 115

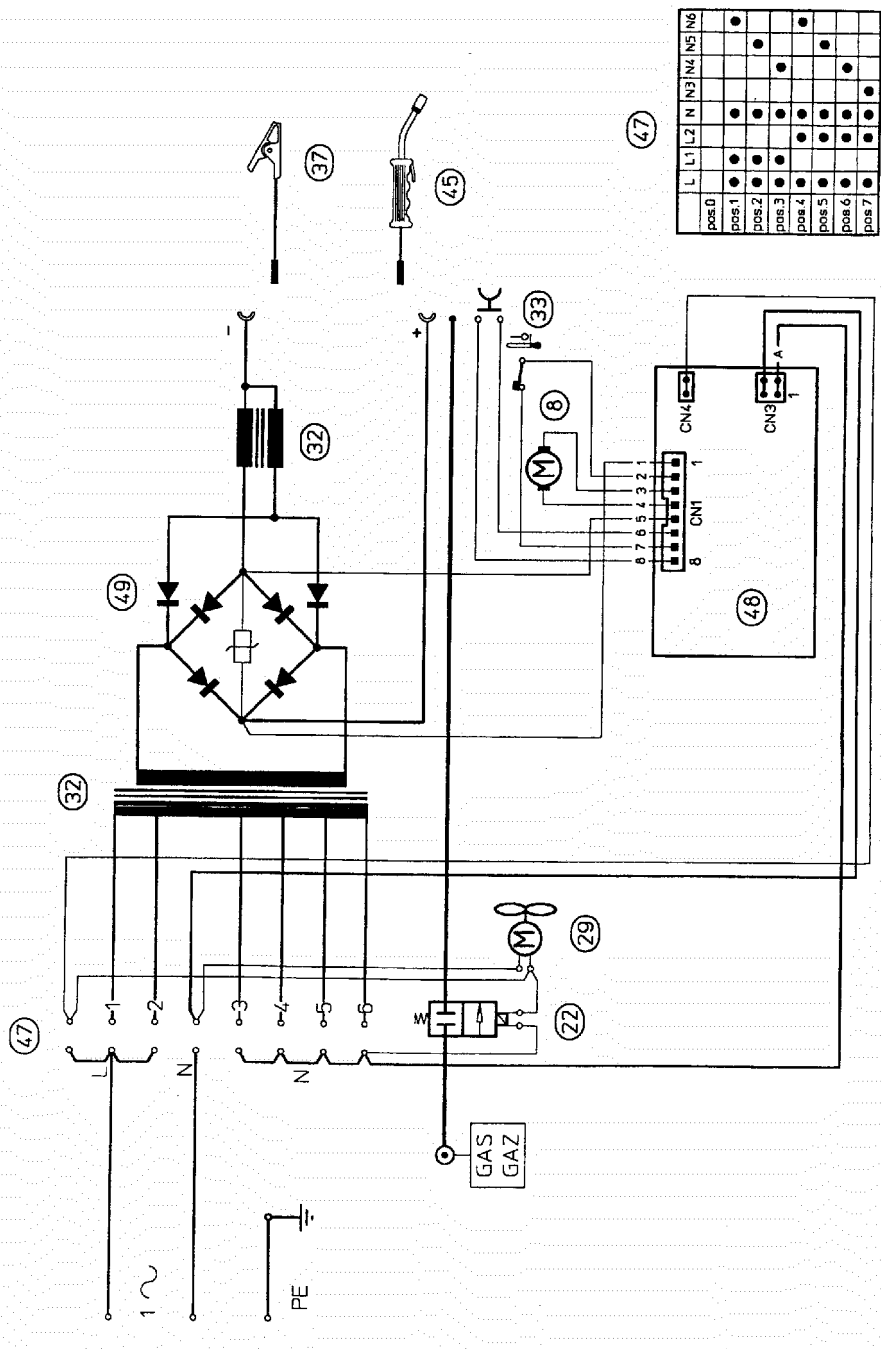


Ref. #	Part # Model MIG 115	Description	Designation	Denominacion
1	CKS246945	KNOB	BOUTON	MANGO
2	CKS260447	KNOB	BOUTON	MANGO
3 *	CKS246947	FRAME	CADRE	MARCO
4	CKS246948	CLOSING	FERMETURE	CERRADO
5 *	-	HANDLE	POIGNEE	MANIJA
6 *	CKS260448	PANEL SIDE	CARCASSE MOBILE	PANELA LATERAL MOVIL
7	CKS246951	DRIVE ROLL	ROULEAU ENTRAINEMENT	RODILLO DE ARRASTRE
8	CKS246952	WIRE FEED MOTOR	MOTOREDUCTEUR	MOTO-REDUCTOR
9 *	CKS260449	CONTROL PANEL	PANNEAU AVANT	PANELA ANT.
10	CKS251030	RING	ANNEAU	ANILLO
11	CKS251031	SPRING	RESSORT	RESORTE
12	CKS251027	COIL SUPPORT SPACER	SUPP. EXTERIEUR BOBINE	SOP. EXT. DE LA BOBINE
13	CKS251022	COIL SUPPORT	SUPPORT BOBINE	SOPORTE BOBINA
14	CKS246958	HINGE	CHARNIERE	BISAGRA
15		RUBBER MAT	COUVERTURE CAOUTCHOUC	TAPA GOMA
16 *	CKS260450	COVER	COUVERCLE	TAPA
17 *	CKS246962	CENTER DIVIDER	PLAN INTERMEDIAIRE	LLANO INTERMEDIO
20	CKSB7107370	HOSE BARB JOINT	RACCORD	ENPALME
21	CKS246169	GAS HOSE	TUYAU GAZ	TUBO GAS
22	CKS260513	SOLENOID VALVE	SOLENOIDE	SOLENOIDE
23	CKSB7023370	MAIN INPUT CABLE	CABLE RESEAU	CABLE RED
24	CKSB7022370	CABLE HOLDER	PRESSE-ETOUIPE	PRENSA-CABLE
25 *	CKS260451	BACK PANEL	PANNEAU ARRIERE	PANELA POSTERIOR
26 *	CKS260452	FIXED SIDE PANEL	CARCASSE FIXE	PANELA LATERAL FIJA
29	CKS260453	FAN MOTOR	MOTEUR	MOTOR
32	CKS260454	TRANSFORMER	TRANSFORMATEUR	TRANSFORMADOR
33	CKSB7065370	THERMOSTAT	THERMOSTAT	TERMOSTATO
34	CKSB7028370	THERMOSTAT SUPPORT	SUPPORT THERMOSTAT	SOPORTE DEL TERMOSTATO
35 *	CKS260455	UNDERCARRIAGE	FOND	BASE
37	CKS246983	EARTH CABLE	CABLE DE MASSE	CABLE MASA
40	CKSB7123370	TORCH NECK	COL DE CYGNE	CUELLO DE CISNE
41	CKSB7124370	SPRING	RESSORT	RESORTE
46	CKS251067	TERMINAL BOARD	PLAQUE A BORNES	CAJA DE BORNE
47	CKS246994	SWITCH	COMMUTATEUR	CONMUTADOR
48	CKS251045	CIRCUIT BOARD	CIRCUIT DE COMMANDE	CIRCUITO DE MANDO
49	CKS246996	RECTIFIER	REDRESSEUR	ENDEREZADOR
50	CKS246997	FITTING	RACCORD	ENPALME
51 @	CKS260456	LABEL	PLAQUE	ETIQUETA
52 @	CKS247509	WARNING LABEL	PLAQUE AUTOCOLLANTE	ETIQUETA AUTOADHESIVA
53	CKS250975	HANDLE	POIGNEE	MANIJA
54	CKS260476	RUBBER MAT	COUVERTURE CAOUTCHOUC	TAPA GOMA
55 @	MIG1153	STEEL LINER	GAINÉ À SPIRAL	VAINA A SPIRAL
56 @	MIG1157	TEFLON LINER	GAINÉ TEFLON	VAINA EN TEFLON
42	MIG1156	DIFFUSER	DIFFUSEUR	DIFUSOR
43	MIG023	.023" (.6mm) CONTACT TIP	.023" (.6mm) TUBE DE CONTACT	TOBERA PORTA CORR. .023"
43	MIG030	.030" (.8mm) CONTACT TIP	.030" (.8mm) TUBE DE CONTACT	TOBERA PORTA CORR. .030"
43	MIG035	.035" (.9mm) CONTACT TIP	.035" (.9mm) TUBE DE CONTACT	TOBERA PORTA CORR. .035"
44	MIG1151	TAPERED NOZZLE	BUSE GAZ	TOBERA GAS
44	MIG1152	SPOT NOZZLE	BUSE POINTAGE	TOBERA DE PUNTOS
45	MIG1155	TORCH	TORCHE	ANTORCH

*THESE ITEMS ARE NOT NORMAL STOCK ITEMS BUT CAN BE MADE AVAILABLE ON AN NEEDED REQUIREMENT.
 CES ARTICLES NE SONT PAS EN STOCK MAIS ON PEUT LES FURNIR SUR DEMANDE
 ESTOS ARTICULOS NO ESTAN INCLUIDOS EN NUESTRO STOCK PERO PUEDEN SER SUMINISTRADS A LA DEMANDA

@THESE ITEMS ARE NOT ON THE DETAIL.
 CES ARTICLES NE SONT PAS SUR L'ECLATE.
 ESTOS ARTICULOS NO ESTAN DETALLADOS

ALL CONSUMABLES AND REPAIR PARTS SHOULD BE ORDERED THROUGH YOUR SNAP-ON DEALER.



(47)

pos.0	L	L1	L2	N	N3	N4	N5	N6	N7
pos.1	•	•	•	•	•	•	•	•	•
pos.2	•	•	•	•	•	•	•	•	•
pos.3	•	•	•	•	•	•	•	•	•
pos.4	•	•	•	•	•	•	•	•	•
pos.5	•	•	•	•	•	•	•	•	•
pos.6	•	•	•	•	•	•	•	•	•
pos.7	•	•	•	•	•	•	•	•	•

MANUFACTURER'S LIMITED WARRANTY

This equipment is warranted against defects in materials and workmanship for a period of two years from the date of purchase.

EXCEPTION: THE MIG TORCH OR PLASMA TORCH IS WARRANTED FOR A PERIOD OF 30 DAYS FROM THE DATE OF PURCHASE.

Should the equipment become defective for such reason, the Manufacturer will repair it without charge, if it is returned to the Manufacturer's factory, freight prepaid. This warranty does not cover: (1) failure due to normal wear and tear; (2) consumable parts, such as, but not limited to, torch contact tips, gas cups, insulating bushings, electrodes, swirl rings, and diffusers; (3) damage by accident, force majeure, improper use, neglect, unauthorized repair or alteration; (4) anyone other than the original purchaser.

THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. THE MANUFACTURER SHALL NOT BE LIABLE FOR ANY INJURY TO PERSONS, INCLUDING DEATH; OR LOSS OR DAMAGE TO ANY PROPERTY, DIRECT OR CONSEQUENTIAL, INCLUDING, BUT NOT LIMITED TO, LOSS OF USE, ARISING OUT OF THE USE, OR THE INABILITY TO USE, THE PRODUCT. THE USER ASSUMES ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION WITH THE USE OF THE PRODUCT, AND BEFORE DOING SO, SHALL DETERMINE ITS SUITABILITY FOR HIS INTENDED USE, AND SHALL ASCERTAIN THE PROPER METHOD OF USING IT.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, OR THE EXCLUSIONS OR LIMITATIONS OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY HAVE OTHER RIGHTS OF WHICH MAY VARY FROM STATE TO STATE.

FOR INFORMATION CONCERNING USE, WARRANTY SERVICE, OUT OF WARRANTY SERVICE OR PRODUCT INFORMATION, CONTACT:

WELDER / PLASMA SERVICE

1025 SAUNDERS LANE

WEST CHESTER, PA 19380

(800) 222-9353

HOURS: MON - FRI 8:00 A.M. TO 4:30 P.M. EASTERN TIME

BLUE-POINT IS A TRADEMARK OF SNAP-ON TECHNOLOGIES, INC.
© 2003 SNAP-ON TECHNOLOGIES, INC. MANUFACTURED FOR
SNAP-ON - 2801 80TH STREET - KENOSHA, WI 53141-1410