

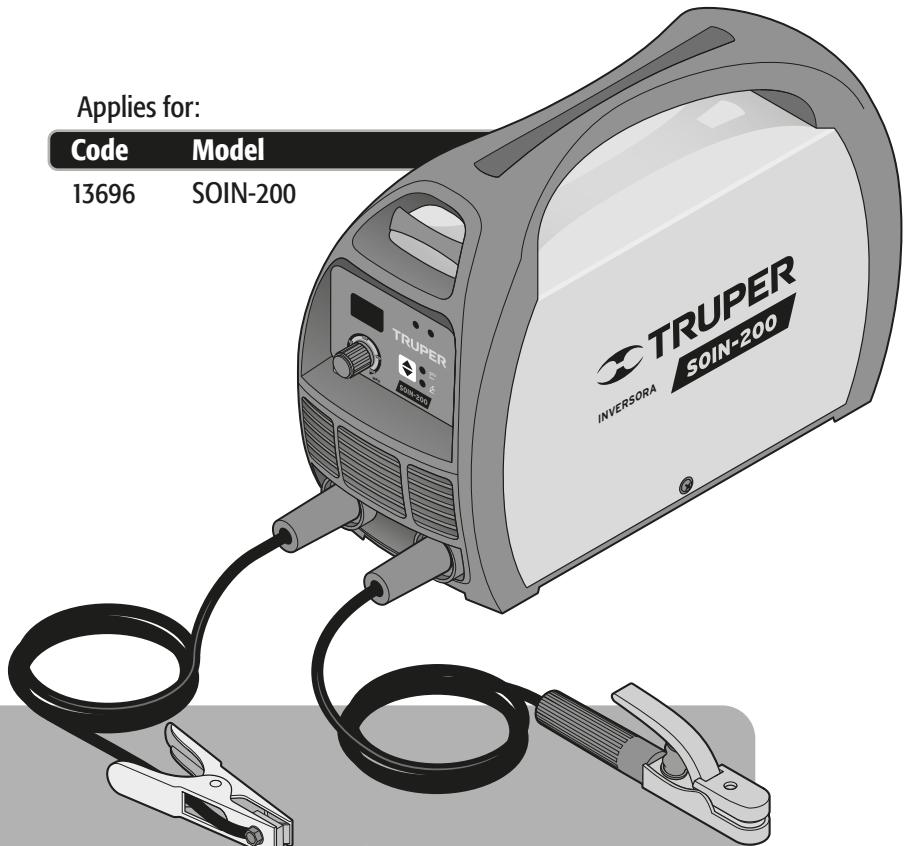
Manual

# Inverter Welder

40%  
Work Cycle

Applies for:

Code	Model
13696	SOIN-200



## SOIN-200

**CAUTION**



Read this manual thoroughly  
before using the tool.



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## CAUTION

To gain the best performance of the tool, prolong the duty life, make the Warranty valid if necessary, and to avoid hazards of fatal injuries please read and understand this Manual before using the tool.

Keep this manual for future references.

The illustrations in this manual are for reference only. They might be different from the real tool.

## Use and care recommendations

### **THERMAL PROTECT**

When the machine overheats, the thermal protector will activate, turning the welder off and turning the LED light ALARM on.  
Let the welder cool for 15 minutes and turn it back on.



It is recommended to use a 12 AWG extension cord and connect it to an INDEPENDENT CHARGING CENTER.



Perform periodic **MAINTENANCE** to your machine (page 11).

# Technical specifications

 TRUPER®

SOIN-200

Code •

13696

Description •

Inverter Welder

## Input

Power •

220 V~

Frequency •

50 Hz / 60 Hz

Current •

39 A

No. of Phases •

2 phases

## Output

Input Rated Capacity •

8.6 kVA

Open Circuit Voltage •

SMAW: 78 V c.c. TIG: 15.4 V c.c.

Current Range •

30 A - 200 A

Work Cycle •

40% 4 minutes' work per 6 minutes' rest.

Output values specified are with a 68 °F Temperatures higher than the work cycle may be reduced.

Cooling Type •

Fan Forced

Weight •

12.5 lb

Output terminals •

1/2" quick connector

Insulation •

Class I

IP Grade

IP21S

Conductors •

12 AWG x 3C with 221 °F insulation temperature

Power cord grips: Type "Y".

Build quality: Basic insulation.

Thermal insulation winding: Class H

**WARNING** Avoid the risk of electric shock or severe injury. When the power cable gets damaged it should only be replaced by the manufacturer or at a  TRUPER® Authorized Service Center. The build quality of the electric insulation is altered if spills or liquid gets into the tool while in use. Do not expose to rain, liquids and/or dampness.

**WARNING** Before gaining access to the terminals all power sources should be disconnected.



## Power Requirements

**WARNING** If faults or breakdowns happen. Ground connection offers a trajectory with minimum resistance for electric power. It reduces the risk of electric shock. This tool is built with a power cable with an earth conductor and a plug with ground connection. The plug shall be connected into a power outlet installed and grounded according to all local codes.

**WARNING** Do not modify the plug supplied. If the plug cannot be fitted to the socket, have a qualified electrician to install the suitable socket.

- When using the welder together with more tools using the same ground connect those in parallel, never connect a series.

**CAUTION** • The gauge of the ground conductor cable shall not be of a smaller gauge than the power supply cable.

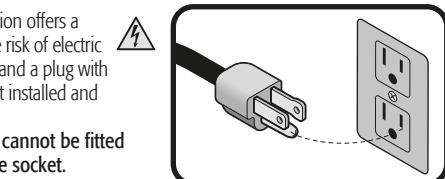
**CAUTION** • Connection to the power supply shall only be carried out by a professional electrician.

**CAUTION** • Double check the input connection voltage stipulated in the welder nameplate matches the power supply voltage.

**CAUTION** • The power supply cord shall meet the following requisites:

Switch	≥30 A
Fuse (Work Rated Current)	30 A (*)
Electric Wire	≥2.5 mm <sup>2</sup>

\* The current for fuse fusion is double of its rated current.



- If extensions between the welder and the work piece are needed, the soldering cable gauge shall be increased to keep the welder energy output with a potential drop not higher than 4 V

ENGLISH

**⚠️ WARNING!** Read carefully all safety warnings and instructions listed below. Failure to comply with any of these warnings may result in electric shock, fire and / or severe damage. Save all warnings and instructions for future references.

**Work area**

Keep your work area clean, and well lit.

Cluttered and dark areas may cause accidents.



Never use the tool in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.

Sparks generated by power tools may ignite the flammable material.



Keep children and bystanders at a safe distance while operating the tool.

Distractions may cause loss of control.

**Electrical Safety**

The tool plug must match the power outlet. Never modify the plug in any way. Do not use any adapter plugs with grounded power tools.



Modified plugs and different power outlets increase the risk of electric shock.

Avoid body contact with grounded surfaces, such as pipes, radiators, electric ranges and refrigerators.

The risk of electric shock increases if your body is grounded.

Do not expose the tool to rain or wet conditions.

Water entering into the tool increases the risk of electric shock.

Do not force the cord. Never use the cord to carry, lift or unplug the tool. Keep the cord away from heat, oil, sharp edges or moving parts.

Damaged or entangled cords increase the risk of electric shock.

When operating a tool outdoors, use an extension cord suitable for outdoor use.

Using an adequate outdoor extension cord reduces the risk of electric shock.

If operating the tool in a damp location cannot be avoided, use a ground fault circuit interrupter (GFCI) protected supply.

Using a GFCI reduces the risk of electric shock.

**Personal safety**

Stay alert, watch what you are doing and use common sense when operating a tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.

A moment of distraction while operating the tool may result in personal injury.

Use personal protective equipment. Always wear eye protection.

Protective equipment such as safety glasses, anti-dust mask, non-skid shoes, hard hats and hearing protection used in the right conditions significantly reduce personal injury.



Prevent unintentional starting up. Ensure the switch is in the "OFF" position before connecting into the power source and / or battery as well as when carrying the tool.

Transporting power tools with the finger on the switch or connecting power tools with the switch in the "ON" position may cause accidents.

Remove any wrench or vice before turning the power tool on.

Wrenches or vices left attached to rotating parts of the tool may result in personal injury.

**Do not overreach. Keep proper footing and balance at all times.**

This enables a better control on the tool during unexpected situations.

Dress properly. Do not wear loose clothing or jewelry. Keep hair, clothes and gloves away from the moving parts.

Loose clothes or long hair may get caught in moving parts.



If you have dust extraction and recollection devices connected onto the tool, inspect their connections and use them correctly.

Using these devices reduce dust-related risks.

**Power Tools Use and Care**

Do not force the tool. Use the adequate tool for your application.



The correct tool delivers a better and safer job at the rate for which it was designed.

**Do not use the tool if the switch is not working properly.**

Any power tool that cannot be turned ON or OFF is dangerous and should be repaired before operating.

Disconnect the tool from the power source and / or battery before making any adjustments, changing accessories or storing.

These measures reduce the risk of accidentally starting the tool.

Store tools out of the reach of children. Do not allow persons that are not familiar with the tool or its instructions to operate the tool.



Power tools are dangerous in the hands of untrained users.

Service the tool. Check the mobile parts are not misaligned or stuck. There should not be broken parts or other conditions that may affect its operation. Repair any damage before using the tool.

Most accidents are caused due to poor maintenance to the tools.



**Keep the cutting accessories sharp and clean.**

Cutting accessories in good working conditions are less likely to bind and are easier to control.

Use the tool, components and accessories in accordance with these instructions and the projected way to use it for the type of tool when in adequate working conditions.

Using the tool for applications different from those it was designed for, could result in a hazardous situation.

**Service**

Repair the tool in a **TRUPER® Authorized Service Center** using only identical spare parts.

This will ensure that the safety of the power tool is maintained.



Children or people with reduced physical, sensory or mental capabilities shall not operate the tool, neither inexperienced people or without knowledge in the use of the tool, unless supervised by a person responsible of their safety or if receiving previous instructions about the tool operation.

Children shall be kept under supervision to double-check they will not play with the tool. Tight supervision shall be used with children or disabled persons to prevent from using or being close to any household tool.

# Safety Warnings for Inverter Welders

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## Protection Equipment for Welding

- ⚠ WARNING** • Wear a welding mask to protect eyes and face when soldering. Assure the mask protective glass shade is adequate for the soldering process to carry out.
- ⚠ CAUTION** • Wear leather gloves specially made for welding as well as leather dungarees and gaiter.
- Wear robust clothing and long sleeves made of fire-resistant materials such as wool or leather.
  - Use special screens or curtains to insulate the work place from passersby, to protect them from sparks, flares and slag originated by the soldering process.
  - Benches and work tables where work pieces shall rest, must have orifices or slots that can easily let through residues originated by the soldering process.



## Prevent Electric Shock

- ⚠ CAUTION** • Verify there is a safe connection for the input and output cables. They shall be correctly insulated and the connections in good repair (check and eliminate any possibility of electric shock).
- ⚠ CAUTION** • Double check the welder is plugged to a reliable ground connection.
- ⚠ CAUTION** • Do not expose the welder to rain or humidity.
- ⚠ CAUTION** • The user shall be insulated from the work piece and ground connection stepping onto insulating and dry mats.
- ⚠ DANGER** • For any reason touch the two poles in the welder circuit (welding stick and work piece).
- ⚠ WARNING** • Do not try to adjust the welder current when carrying out a soldering job.
- ⚠ CAUTION** • Connect the ground clamp to the work piece as close as possible to the welding zone. This prevents the current to flow long distances and eliminate the possibility of short circuit.
- ⚠ WARNING** • The work piece shall make contact with the ground connection clamp before operating the welder. Do not disconnect until finishing welding because it can lead to an electric discharge and severe injury.
- ⚠ WARNING** • Disconnect the welder from the power supply before carrying any maintenance jobs.



## Fire Prevention

- ⚠ CAUTION** • Have always handy a fire extinguisher in good conditions.
- ⚠ WARNING** • There shall not be flammable or explosive materials in the work area (no less than 36'). Do not carry out soldering jobs where the sparks can reach or fall onto flammable or explosive materials.



## Prevent Health Risks

- ⚠ WARNING** • Vapor and gases produced while soldering is dangerous to your health. Work in well ventilated areas or with adequate ventilation systems.
- ⚠ WARNING** • Do not breath in smokes and gasses emanated from the soldering process. Keep your head away from vapors.
- ⚠ DANGER** • If ventilation is poor use an adequate autonomous breathing device because the gases generated when soldering may displace air and cause a fatal accident.
- ⚠ CAUTION** • Do not operate the welder near de-greasing agents, cleaning products or aerosol containers. Heat and radiation from the welding process may react to those vapors forming toxic gases.
- ⚠ CAUTION** • Avoid soldering metals covered in lead, zinc or cadmium. Those materials generate toxic gases. Otherwise, remove the covering from the welding area. Make sure the work area is well ventilated or wear an adequate autonomous breathing device.



## Prevent Injuries and Accidents

- ⚠ WARNING** • Risks of electric shock:  
An electric shock coming from the soldering electrode may cause death. Do not weld under rain or snow. Do not touch the electrode with your bare hands. Do not wear damp or damaged gloves. Personal protection against electric shock: insulation from the work piece. Do not open the equipment enclosure. Do not weld on top of drums or any closed container.



- ⚠ WARNING** • Soldering sparks may cause explosion or fire.



- ⚠ WARNING** • Risks generated by the welding arc:  
Radiation coming out from the arc may burn eyes and damage skin. Wear face mask and protection glasses. Wear hearing protection and protective clothes that protect skin up to the neck. Wear full-body protective clothes.



- ⚠ WARNING** • Risk induced by electro-magnetic fields:  
Welding current produces electro-magnetic fields. Do not use this power source if having a medical implant. Never roll up the welding cable around your body. Set together and parallel both welding cables so the fields of each cable counteract.



- ⚠ WARNING** • Do not use the welder power source to de-ice pipes.
- ⚠ CAUTION** • Never allow unexperienced people to dismantle or regulate the welder.

- ⚠ WARNING** • Double check that the operator and the welder are away from the sparks and residues trajectory originated by the soldering process.

- The welder shall be operated in a place protected from sun and rain. Away from places where violent vibrations are present.

- Store the welder in a place free of humidity with a range of temperature from -13 °F to 131 °F

- There shall be a 11.8" space around the welding machine to allow good ventilation.

- ⚠ CAUTION** • Double check no foreign metal piece is inside the welder.

- ⚠ WARNING** • Any problem with the welder that cannot be fixed by the operator making the adjustments needed for a good welding job shall be carry out in a  **TRUPER®** Authorized Service Center. For any reason try to open the welder housing to carry out any type of maintenance.

## Use of Compressed Gas Cylinders

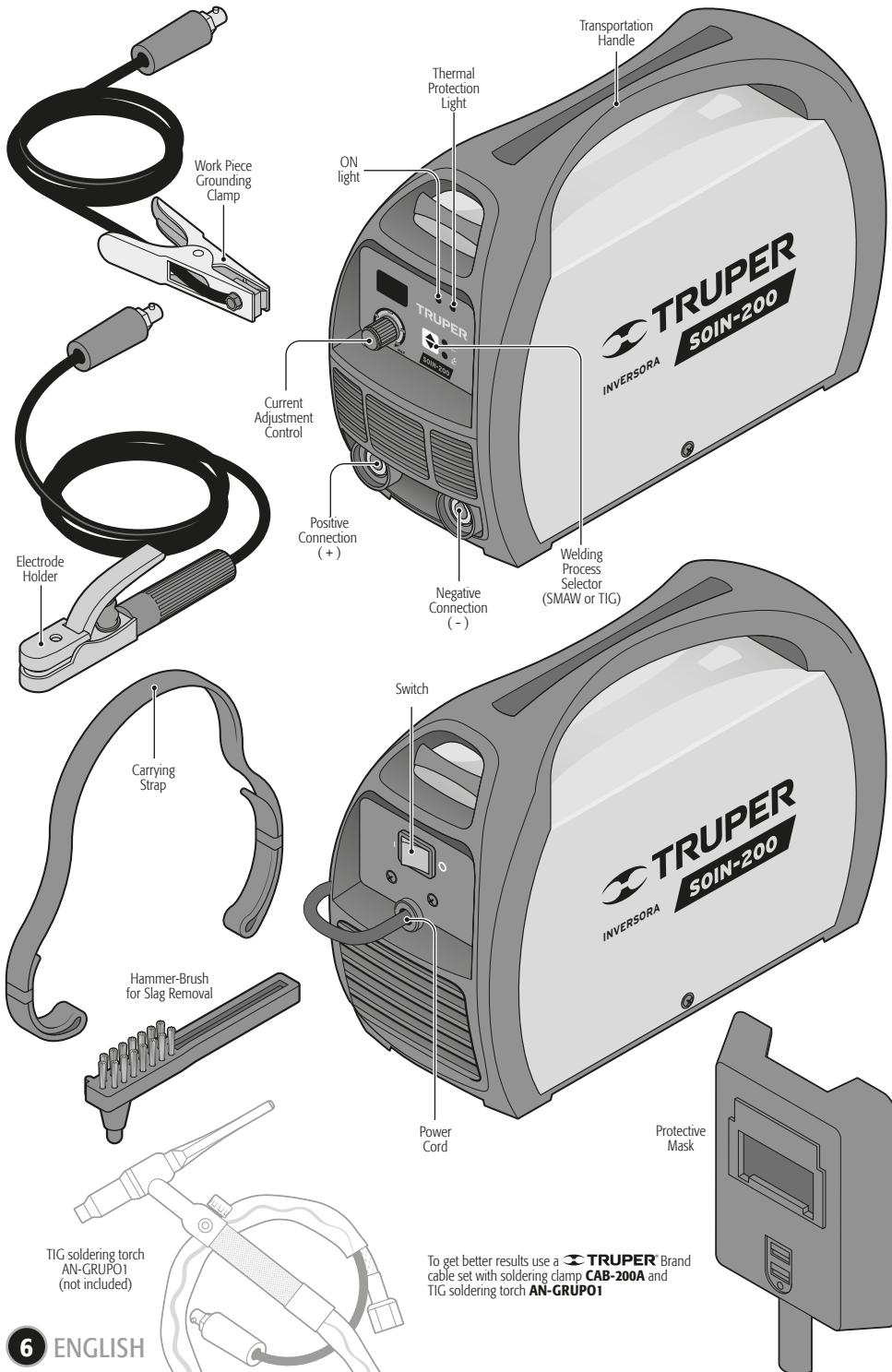
- ⚠ WARNING** • Compressed gas cylinders are widely used in many welding processes. If not stored, handled, inspected and used adequately compressed gas cylinders may be fatal. Can explode or turn into missiles, drawing such force they can even break brick walls.
- ⚠ CAUTION** • Inspect the cylinders. Look for external corrosion, indentation, lumps, holes or wells. If in doubt about any imperfection observed is acceptable for those guidelines, stop using the cylinder. Consult the gas safety page before using it.

- ⚠ CAUTION** • Many compressed gases not only represent a physical hazard but also dangerous to your health. Be sure you learn the danger to your health and how to be protected. Always follow the use and handling caution measures provided in the safety page.

- ⚠ CAUTION** • Never set the cylinders next to heat or flame or where they can be part of an electric circuit. Do not use them as a source of ground during the electric welding process.

- ⚠ WARNING** • Wear safety glasses and a protective mask when connecting and disconnecting regulators and lines to the cylinder.

- ⚠ CAUTION** • Close the cylinder valve to release pressure before removing the regulator and when not in use. Cylinders shall be stored with a visible identification and with the protection valve cap fitted.



# Installation (SMAW)

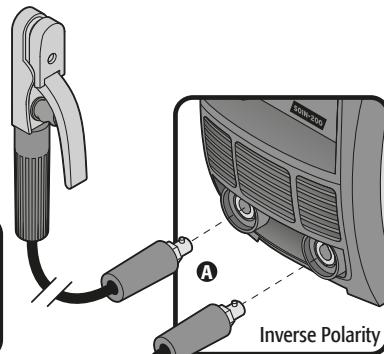
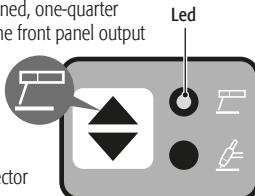
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## Connections

**CAUTION** To prevent electric shock, you need to see information in section "Electrical Requirements" in pages 3 and 5.

- The fast connections of the electrode holder and the grounding clamp are inserted and turned, one-quarter of a turn in a clockwise direction in the front panel output to get them properly secured.
- Press the upper arrow of the process selector, so that the welder works in SMAW (Covered electrode) mode.

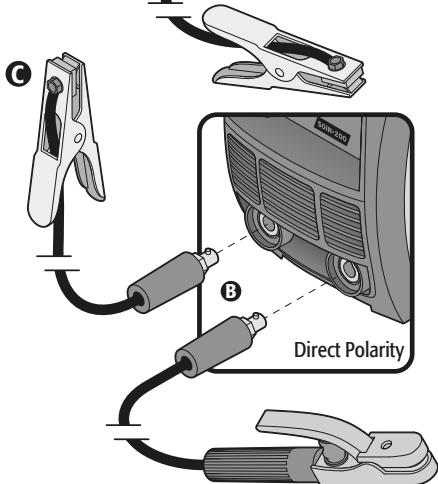
**NOTE** The upper led of the selector will turn on.



### Inverse Polarity (A)

- Connect the grounding clamp cable to the negative (-) clamping screw outlet in the welder.
- Connect the grounding clamp (C) to the work piece.
- Connect the electrode holder cable to the positive (+) clamping screw outlet in the welder.

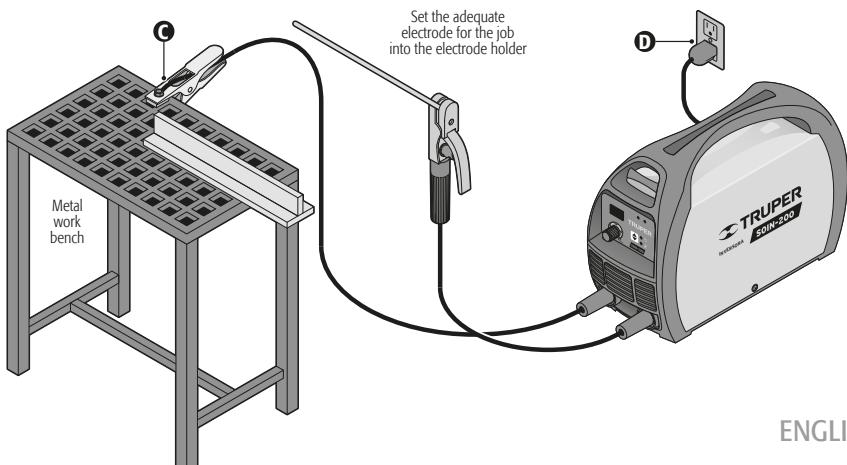
This configuration produces more heat in the electrode thus, producing more penetration with the basic electrodes, making it ideal to solder thick pieces.



### Direct Polarity (B)

- Connect the grounding clamp cable into the outlet (+).
  - Connect the grounding clamp (C) to the work piece.
  - Connect the electrode holder cable into the outlet (-).
- This configuration generates more heat in the work piece thus, producing less deformation and narrower seams, making it ideal to solder thin pieces.
- 
- Connect the feeding cable (D) working voltage network (220 V~).

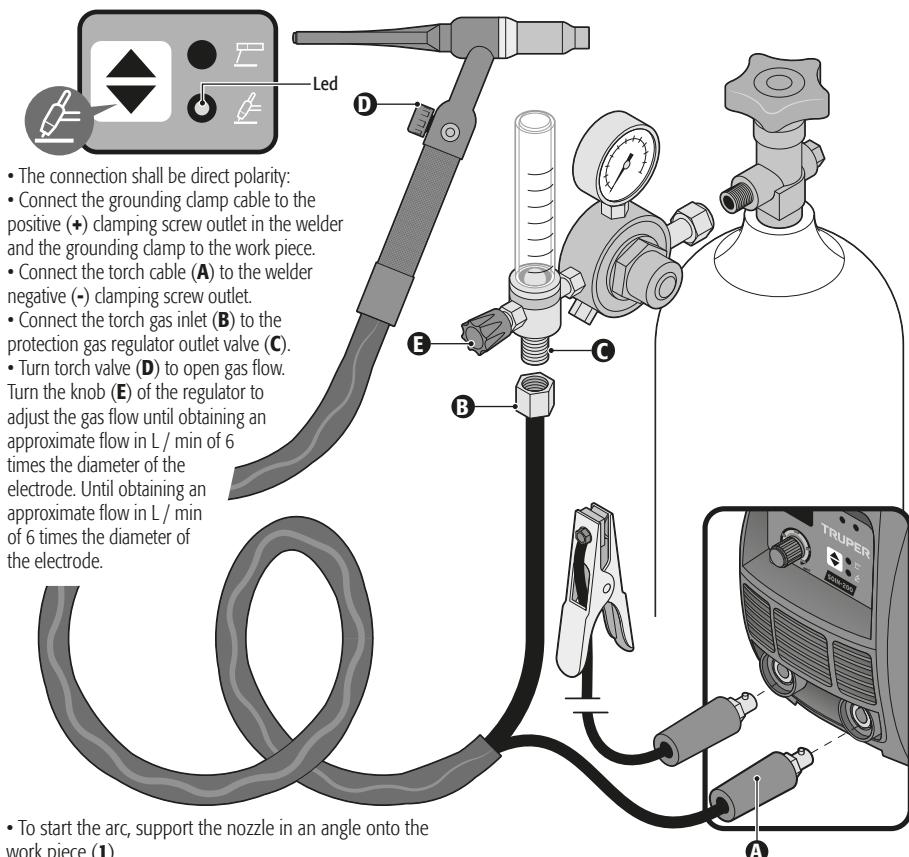
**WARNING** Before using the welder shall be correctly grounded. Do not uninstall the ground cable. It could cause severe personal injury.



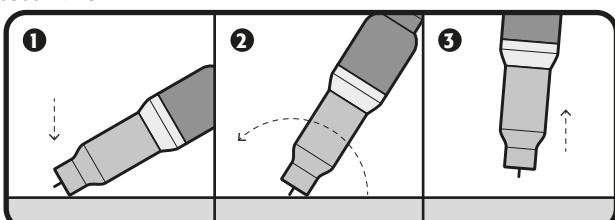
## TIG Connection

- This inverter welder can also be used to TIG welding. It is a high-quality soldering with non-consumable tungsten electrodes and arc protected by inert gas like Argon or Helium.
- TIG welding is ideal for welding stainless steel, iron and copper.
- For this process, you will require a AN-GRUPO1 torch and a protection gas tank or can, not included.
- Press the lower arrow of the process selector, so that the welder works in TIG (Tungsten electrode) mode.

**NOTE** The lower led of the selector will turn on.



- To start the arc, support the nozzle in an angle onto the work piece (1).
- Raise the torch without separating the nozzle from the work piece to bring over the electrode to the work piece (2).
- When the electric arc starts lift the torch so that the electrode tip is 0.08" away from the work piece (3). Start soldering.
- It is recommended to keep the electrode 90° in the vertical during the welding process to guarantee the protection of the gas.

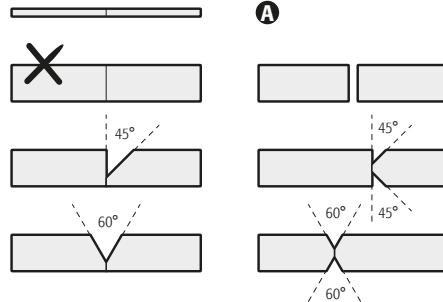


# Start Up

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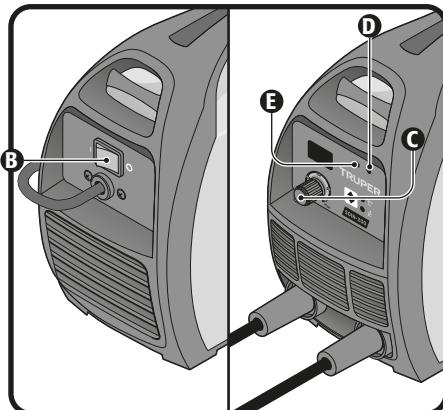
## Preparation

- Only experience, practice and care can guarantee a good welding job.
- The factors intervening in the welding process are many: required current, distance between the electrode and the work piece, soldering speed and direction, thickness and type of the material, the work piece position, electrode angle and also gauge, type of material and electrode covering. Therefore, it is advisable that before welding to carry out practice some in scrap material to determine which are the specific requirements needed for the job to perform.
- The area on the work piece where the soldering will be applied shall be clean, free of rust and paint.
- Joints between sheets with gauges higher than 1/8" shall be beveled to have an adequate weld (**A**).



## Welding

- Set the switch (**B**) into the ON (**I**) position. The indicating light will be illuminated (**E**).
- Turn the current adjusting control (**C**) until reaching the amperes needed for the job.
- Hold the electrode holder or torch as comfortable as possible. Bear in mind that during the welding process, the angle, movement and distance regarding the work piece shall be constant and uniform.
- Aim the electrode tip to the joint to be worked with to generate the arc and start welding.
- Once the arc is lit start soldering keeping always the electrode tip 0.08" away from the work piece. If you make the weld having the electrode supported on the work piece, it could adhere and the weld would have a low quality.
- In case of overheating, the welder will stop functioning and the thermal protection indicator light (**D**) will be lit. Do not turn off the welder and wait until the indicator light is off to use it again.



## Slag Removal

- Upon finishing welding, use the wire brush included to remove the slag from the weld bead surface.
- CAUTION** • Wait until the slag has cooled down and hardened to remove it.
- When hitting or brushing slag to remove it there can be particles flying out. Wear eye protection and keep bystanders away.



## Supplies

For coated electrode processes (SMAW)

- Type: 6013 / 6011  
Diameter: 3/32", 1/8", 5/32", 3/16"  
Type: 7018  
Diameter: 3/32", 1/8", 5/32"

For processes with tungsten electrode (TIG)

- Diameter: 1 mm, 1.6 mm and 2 mm

## Electrode Replacement

### SMAW:

- When the electrode has been consumed 0.4" to 0.8" away from the electrode holder, it is necessary to replace it with a new one to keep on welding.

**CAUTION** • Electrodes are burned in high temperature. Do not try to manipulate the remains of the electrode with your hand. Set the remains in a metal container.

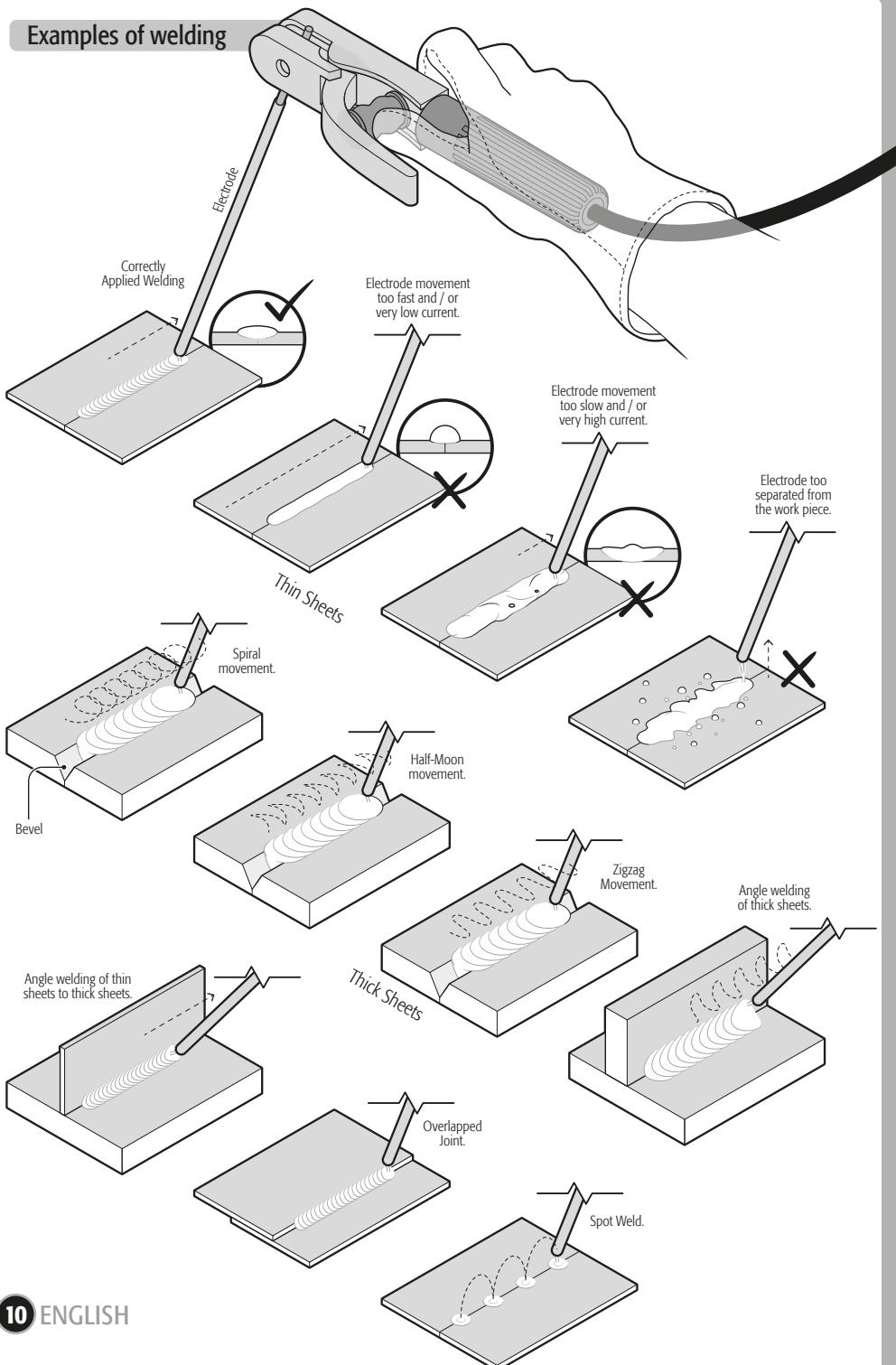
- Open the electrode holder nipper to hold the new electrode by the end that is not covered. Do not hold the electrode by the covered part.

### TIG:

- Tungsten electrodes shall be honed to guarantee the good quality of the weld in its longitudinal direction.
- The tungsten electrode tip has a tendency to warp due to heating. That is why, once the tip is not presenting the recommended angle, it shall need to be honed again.

Soldering Current (A)	Electrode Angle
20	30°
20 - 100	60° - 90°
100 - 200	90° - 120°

## Examples of welding



- The correct use and regular cleansing extend the useful life of the welder.

**CAUTION** • Only qualified personnel shall carry out repairs. We recommend visiting a  TRUPER® Authorized Service Center to repair your welder, get supplies or accessories.

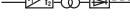
## Regular Maintenance

- Clean dust from the welder with compressed air. If there is too much dust present, clean immediately. Under normal conditions clean once a year. If the welder is exposed to a lot of dust, cleaning should be carried out every three months.
- Altogether with cleaning make a checkup to assure there are no loose parts or components in the welder.
- Keep the welder plug in good repair.
- The plug shall be checked before each use.

## Storage

- In the event the welder will be stored a long period of time, keep it in a dry, well ventilated place to prevent humidity getting inside, or to generate rust or toxic gas. Storage temperature vary between -13 °F to 131 °F and relative humidity shall not be over 90%.

## Symbology

	DC symbol
	Electric arc manual welding with coated electrode
	Inert metal - active gas welding, including the use of flux core
	Input circuit, single-phase alternating current and rated frequency symbol
	Work cycle symbol (service factor)
	Nominal welding current symbol
	Conventional load voltage symbol
	Rated open circuit voltage
	Rated power voltage
	Maximum rated power
	Maximum effective power
	Protection degree (solid objects and water submersion)
	Converter - transformer - single-phase static frequency rectifier
	AC symbol
	Electric-arc manual welding with coated electrodes
	Gas shielded arc welding system
	Metal inert gas welding
	Tungsten inert gas welding

Problem	Cause	Solution
The thermal protection light is ON.	<ul style="list-style-type: none"><li>The welder has no adequate ventilation.</li><li>Environment temperature is too high.</li><li>The welder has been used longer than the recommended work cycle.</li></ul>	<ul style="list-style-type: none"><li>Keep the welder least 11.8" away from any walls at to allow air circulation.</li><li>The welder will recuperate once the temperature gets back to the right range to operate.</li><li>The welder will recuperate once the temperature gets back to the right range to operate.</li></ul>
The current adjusting control is not working.	<ul style="list-style-type: none"><li>The potentiometer is broken.</li></ul>	<ul style="list-style-type: none"><li>Go to a  TRUPER® Authorized Service Center to replace the potentiometer.</li></ul>
The fan is not working or turns very slowly.	<ul style="list-style-type: none"><li>Faulty switch.</li><li>Faulty fan.</li><li>Fault in the connections.</li></ul>	<ul style="list-style-type: none"><li>Go to a  TRUPER® Authorized Service Center to replace the switch.</li><li>Go to a  TRUPER® Authorized Service Center to repair the fan.</li><li>Check all the connections.</li></ul>
There is no open circuit voltage.	<ul style="list-style-type: none"><li>High Voltage, low voltage or one phase is missing.</li><li>The welder is overheating.</li><li>Faulty switch.</li></ul>	<ul style="list-style-type: none"><li>The welder will recuperate once the temperature is back into the adequate range to operate.</li><li>Go to a  TRUPER® Authorized Service Center to replace the switch.</li></ul>
The electrode holder is too hot; connections + and - are hot.	<ul style="list-style-type: none"><li>The electrode capacity is too low.</li><li>The cable gauge is too small.</li><li>Loose connections.</li><li>More resistance between the electrode holder and the cable.</li></ul>	<ul style="list-style-type: none"><li>Replace the electrode holder with another one with more capacity.</li><li>Replace the cable with another one within the requirements (see page 3).</li><li>Clean the rust accumulation and tighten the connections.</li><li>Clean the rust accumulation and tighten the connections.</li></ul>
Energy source is off.	<ul style="list-style-type: none"><li>The welder is hover-heated.</li></ul>	<ul style="list-style-type: none"><li>There is no fault. It is normal that power supply gets cut when the welder goes above its normal working temperature. Wait until the temperature is back to the adequate working range to turn it on again.</li></ul>

If after all the recommended actions have been carried out the problems persist, contact a  TRUPER® Authorized Service Center.

# Authorized Service Centers



In the event of any problem contacting a Truper Authorized Service Center, please see our webpage [www.truper.com](http://www.truper.com) to get an updated list, or call our toll-free numbers **800 690-6990** or **800 018-7873** to get information about the nearest Service Center.

AGUASCALIENTES	<b>DE TODO PARA LA CONSTRUCCIÓN</b> GRAL. BARRAGÁN #1201, COL. GREMIAL, C.P. 20030, AGUASCALIENTES, AGS. TEL.: 449 994 0537
BAJA CALIFORNIA	<b>SUCRAL TIJUANA</b> AV. LA ENCANTADA, LOTE #5, PARQUE INDUSTRIAL EL FLORIDO II, C.P. 22244, TIJUANA, B.C. TEL.: 664 969 5100
BAJA CALIFORNIA SUR	<b>FIX FERRETERÍAS</b> FELIPE ANGELES ESQ. RUIZ CORTÍNEZ S/N, COL. PUEBLO NUEVO, C.P. 23670, CD. CONSTITUCIÓN, B.C.S. TEL.: 613 132 1115
CAMPECHE	<b>TORNILLERÍA Y FERRETERÍA AAA</b> AV. ALVARO OBREGÓN #524, COL. ESPERANZA C.P. 24080 CAMPECHE, CAMP. TEL.: 981 815 2808
CHIAPAS	<b>FIX FERRETERÍAS</b> AV. CENTRAL SUR #27, COL. CENTRO, C.P. 30700, TAPACHULA, CHIS. TEL.: 962 118 4083
CHIHUAHUA	<b>SUCRAL CHIHUAHUA</b> AV. SILVESTRE TERRAZAS #12-11, PARQUE INDUSTRIAL BAFAR, CARRETERA MÉXICO CUAHUTÉMOC, C.P. 31415, CHIHUAHUA, CHIH. TEL. 614 434 0052
MEXICO CITY	<b>FIX FERRETERÍAS</b> EL MONSTRUO DE CORREDOR, CORREDOR # 22, COL. CENTRO, C.P. 06060, CUAHUTÉMOC, CDMX. TEL: 55 5522 5031 / 5522 4861
COAHUILA	<b>SUCRAL TORREÓN</b> CALLE METAL MECÁNICA #280, PARQUE INDUSTRIAL ORIENTE, C.P. 27278, TORREÓN, COAH. TEL: 871 209 6823
COLIMA	<b>BOMBAS Y MOTORES BYMTESA DE MANZANILLO</b> BLVD. MIGUEL DE LA MADRID #190, COL. 16 DE SEPTIEMBRE, C.P. 28239, MANZANILLO, COL. TEL: 314 332 1986 / 332 2013
DURANGO	<b>TORNILLOS ÁGUILA, S.A. DE C.V.</b> MAZURIÓ #200, COL. LUIS ECHEVERRÍA, DURANGO, DGO. TEL.: 618 817 1946 / 618 818 2844
ESTADO DE MÉXICO	<b>SUCRAL CENTRO JILOTEPEC</b> PARQUE INDUSTRIAL 1, PARQUE INDUSTRIAL JILOTEPEC, JILOTEPEC, EDO. DE MÉX. C.P. 54257, TEL: 761 782 9101 EXT. 5728 Y 5102
GUANAJUATO	<b>CÍA. FERRETERA NUEVO MUNDO S.A. DE C.V.</b> AV. MÉXICO - JAPÓN #225, CD. INDUSTRIAL, C.P. 38010, CELAYA, GTO. TEL: 461 617 7578 / 79 / 80 / 88
GUERRERO	<b>CENTRO DE SERVICIO ECLIPSE</b> CALLE PRINCIPAL MZ.1 LT. 1, COL. SANTA FE, C.P. 39010, CHILPANCINGO, GRO. TEL: 747 478 5793
HIDALGO	<b>FERREPRESOS S.A. DE C.V.</b> LIBERTAD ORIENTE #504 LOCAL 30, INTERIOR DE PASAJE ROBLEDO, COL. CENTRO, C.P. 43600, TULANCINGO, HGO. TEL: 775 753 6615 / 775 753 6616
JALISCO	<b>SUCRAL GUADALAJARA</b> AV. ADOLFO B. HORN # 6800, COL. SANTA CRUZ DEL VALLE, C.P. 45655, TLAJOMULCO DE ZUÑIGA, JAL. TEL: 33 3606 5285 AL 90
MICHOACÁN	<b>FIX FERRETERÍAS</b> AV. PASEO DE LA REPÚBLICA #3140-A, COL. EX-HACIENDA DE LA HUERTA, C.P. 58050, MORELIA, MICH. TEL: 443 334 6858
MORELOS	<b>FIX FERRETERÍAS</b> CAPITÁN ANZURES #95, ESQ. JOSÉ PERDIZ, COL. CENTRO, C.P. 62740, CUAUTLA, MOR. TEL.: 735 352 8931
NAYARIT	<b>HERRAMIENTAS DE TEPIC</b> MAZATLÁN #117, COL. CENTRO, C.P. 63000, TEPIC, NAY. TEL.: 311 258 0540
NUEVO LEÓN	<b>SUCRAL MONTERREY</b> CARRETERA LAREDO #300, 1B MONTERREY PARKS, COLONIA PUERTA DE ANÁHUAC, C.P. 66052, ESCOBEDO, NUEVO LEÓN, TEL.: 81 8352 8791 / 81 8352 8790
OAXACA	<b>FIX FERRETERÍAS</b> AV. 20 DE NOVIEMBRE #910, COL. CENTRO, C.P. 68300, TUXTEPEC, OAX. TEL.: 287 106 3092
PUEBLA	<b>SUCRAL PUEBLA</b> AV. PERIFÉRICO #2-A, SAN LORENZO ALMECATLA, C.P. 72710, CUAUTLA/CINGO, PUE. TEL: 222 282 8282 / 84 / 85 / 86
QUERÉTARO	<b>ARU HERRAMIENTAS S.A. DE C.V.</b> AV. PUERTO DE VERACRUZ #110, COL. RANCHO DE ENMEDIO, C.P. 76842, SAN JUAN DEL RÍO, QRO. TEL.: 427 268 4544
QUINTANA ROO	<b>FIX FERRETERÍAS</b> CARRETERA FEDERAL MZ. 46 LT. 3 LOCAL 2, COL. EJIDAL, C.P. 77710 PLAYA DEL CARMEN, Q.R. TEL.: 984 267 3140
SAN LUIS POTOSÍ	<b>FIX FERRETERÍAS</b> AV. UNIVERSIDAD #1850, COL. EL PASEO, C.P. 78320, SAN LUIS POTOSÍ, S.L.P. TEL: 444 822 4341
SINALOA	<b>SUCRAL CULIACÁN</b> AV. JESÚS KUMATE SUR #4301, COL. HACIENDA DE LA MORA, C.P. 80143, CULIACÁN, SIN. TEL: 667 173 9139 / 173 8400
SONORA	<b>FIX FERRETERÍAS</b> CALLE 5 DE FEBRERO #517, SUR LT. 25 MZ. 10, COL. CENTRO, C.P. 85000, CD. ÓBREGÓN, SON. TEL.: 644 413 2392
TABASCO	<b>SUCRAL VILLAHERMOSA</b> CALLE HELIO LOTES 1, 2 Y 3 MZ. #1, COL. INDUSTRIAL, 2A ETAPA, C.P. 86010, VILLAHERMOSA, TAB. TEL.: 993 353 7244
TAMAULIPAS	<b>VM ORINGS Y REFACCIONES</b> CALLE ROSITA #527 ENTRE 20 DE NOVIEMBRE Y GRAL. RODRÍGUEZ, FRACC. REYNOSA, C.P. 88780, REYNOSA, TAMS. TEL.: 899 926 7552
TLAXCALA	<b>SERVICIOS Y HERRAMIENTAS INDUSTRIALES</b> PABLO SIDAR #132, COL. BARRIO DE SAN BARTOLOMÉ, C.P. 90970, SAN PABLO DEL MONTE, TLAX. TEL.: 222 271 7502
VERACRUZ	<b>LA CASA DISTRIBUIDORA TRUPER</b> BLVD. PRIMAVERA ESQ. HORTENSIA S/N, COL. PRIMAVERA C.P. 93508, POZA RICA, VER. TEL.: 782 823 8100 / 826 8484
YUCATÁN	<b>SUCRAL MÉRIDA</b> CLLAE 33 #602, LOCALIDAD ITZINCAB Y MULSAY, MPIO. UMÁN, C.P. 97390, MÉRIDA, YUC. TEL: 999 912 2451

Code	Model	Brand
13696	SOIN-200	 <b>TRUPER®</b>

This product is guaranteed for 1 year. To make the warranty valid or purchase parts and components you must present the product in Corregidora 22, Col. Centro, Alc. Cuauhtémoc, CDMX C.P. 06060 or at the establishment where you purchased it, or at any Truper® Service Center listed in the annex to the warranty policy and/or in [www.truper.com](http://www.truper.com). Transportation costs resulting from compliance of this warranty will be covered by 

For questions or comments, call **800-690-6990**. Made in China. Imported by Truper S.A. de C.V. Parque Industrial 1, Parque Industrial Jilotepec, Jilotepec, Edo. de Méx. C.P. 54257



1  
YEAR

Stamp of the business. Date of purchase:

AÑO



Sello del establecimiento comercial. Fecho de compra:

Este producto es la garantía otorgada por Truper® para hacer válida la garantía o adquirir piezas y componentes debidos a desperfectos o mal funcionamiento sufridos por el producto en su uso normal. Para ello se presentará el producto en Corregidora 22, Col. Centro, Alc. Cuauhtémoc, CDMX C.P. 06060 o en el agente de servicio Truper® más cercano al domicilio del cliente. Los gastos de trasportación que resulten para su cumplimiento serán cubiertos por TRUPER®.

Para dudas o comentarios, llame al 800-690-6990. Hecho en China importado por Truper S.A. de C.V. Parque Industrial 1, Parque Industrial Jiutepec, Jiutepec, Edo. de Mex. C.P. 54257

Código	Modelo	Marca	Serie
13696	SOM-200	TRUPER®	

**Poliza de  
Garantía**

**TRUPER®**

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AGUASCALIENTES	DE TODO PARA LA CONSTRUCCIÓN	GRAL. BARAGNA #1201, C.C. GERMÁN, C.P. 20030.	ACUAS CALCULINAS, AGS, TEL.: 449 994 0557	TEL.: 66 99 5100	BAJA CALIFORNIA SUR	FELIPE ANTONETES 520, RUIZ CORTEZ S/N, C.P. PUEBLO	TEL.: 613 132 1115	TOMILERA Y FERRETERÍA AAA	AV. ALVARO OBREGÓN #524, C.C. ESPERANZA	C.P. 24080 TAPACHULA, CHIS, TEL.: 962 118 4085	TAPACHULA CHIHUAHUA	CHIHUAHUA	C.U.D. MONTRO DE CORREGIDORA, CORREGIDORA #22,	C.U.D. MONTRO DE LA MARÍA #190, C.C. LUIS ECHEVERRÍA DURANGO	TEL.: 81 209 68 23	C.O.D. MONTRO INDUSTRIAL, PROBLEMA #2457, TEL.: 761 782 9101	ESTADO DE MÉXICO	DURANGO
MICHIGAN	DE TODA LA CONSTRUCCIÓN	GRAL. BARAGNA #1201, C.C. GERMÁN, C.P. 20030.	ACUAS CALCULINAS, AGS, TEL.: 449 994 0557	TEL.: 66 99 5100	BAJA CALIFORNIA SUR	FELIPE ANTONETES 520, RUIZ CORTEZ S/N, C.P. PUEBLO	TEL.: 613 132 1115	TOMILERA Y FERRETERÍA AAA	AV. ALVARO OBREGÓN #524, C.C. ESPERANZA	C.P. 24080 TAPACHULA, CHIS, TEL.: 962 118 4085	TAPACHULA CHIHUAHUA	CHIHUAHUA	C.U.D. MONTRO DE CORREGIDORA, CORREGIDORA #22,	C.U.D. MONTRO DE LA MARÍA #190, C.C. LUIS ECHEVERRÍA DURANGO	TEL.: 81 209 68 23	C.O.D. MONTRO INDUSTRIAL, PROBLEMA #2457, TEL.: 761 782 9101	ESTADO DE MÉXICO	DURANGO
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# Solución de problemas

**TRUPER®**

Problema Causa La luz de protección • La soldadora no cuenta con ventilación adecuada.

• Mantenga la soldadora apartada de cualquier pared al encendida. • Temperatura ambiente muy alta.

• El control de ajuste de potenciómetro está roto. • Acuda a un Centro de Servicio Autorizado.

• El ventilador no funciona. • Acuda a un Centro de Servicio Autorizado.

No hay tensión de circuito abierto. • La soldadora se está sobreeléctrica. • Tensión alta, tensión baja o falta una fase. • La soldadora es recuperar una vez que la temperatura

• Interruptor descompusto. • Acuda a un Centro de Servicio Autorizado.

• Interruptor descompusto. • La soldadora se está sobreeléctrica.

• Interruptor para reparar el ventilador. • Acuda a un Centro de Servicio Autorizado.

• Interruptor para reparar el ventilador. • La soldadora se está sobreeléctrica.

• Interruptor para reparar el ventilador. • Revise las conexiones.

• Interruptor para reparar el ventilador. • Falla en las conexiones.

• Interruptor para reparar el ventilador. • La soldadora es recuperar una vez que la temperatura

• Interruptor para reparar el interruptor. • Reemplace el cable por otro dentro de los requerimientos de corriente. • La soldadora es muy pequeña. • Reemplace el cable por otro dentro de los requerimientos de corriente.

• Interruptor para reparar el interruptor. • La soldadora es muy pequeña.

• Interruptor para reparar el interruptor. • La soldadora es recuperar una vez que la temperatura

• Interruptor para reparar el interruptor. • La soldadora se ha sobrecalentado. • No hay falla. Es normal que el suministro de energía sea cortado de trabajo. Especie a que la temperatura excede a lo largo de cuando la soldadora sobrepasa su temperatura recomendada.

• Interruptor para reparar el interruptor. • La soldadora se ha sobrecalentado.

• Interruptor para reparar el interruptor. • La soldadora se ha sobrecalentado.

• Interruptor para reparar el interruptor. • La soldadora es recuperar una vez que la temperatura excede a lo largo de cuando la soldadora sobrepasa su temperatura recomendada.

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	I <sub>a</sub>	Corriente alterna
	I <sub>d</sub>	Corriente directa
	U <sub>a</sub>	Tensión alterna
	U <sub>d</sub>	Tensión directa
	I <sub>1a</sub> ...A	Corriente nominal máxima de alimentación
	I <sub>1d</sub> ...A	Tensión nominal de alimentación
	U <sub>1a</sub> ...V	Tensión nominal del circuito abierto
	U <sub>1d</sub> ...V	Símbolo de la tensión de carga convencional
	I <sub>2</sub>	Símbolo de la corriente de la soldadura nominal
	I <sub>2</sub>	Símbolo del ciclo de trabajo (factor de servicio)
	U <sub>2</sub>	Circuito de entrada, símbolo para corriente alterna monofásica y frecuencia nominal
	U <sub>2</sub>	Soldadura de metal interno y gas activo incluyendo el uso de núcleo fundente
	I <sub>3</sub>	Soldadura manual por arco eléctrico con electrodo revestido
	I <sub>3</sub>	Soldadura manual por arco eléctrico con electrodo revestido
	I <sub>4</sub>	Soldadura con gas interte de tungsteno
	I <sub>4</sub>	Soldadura por gas interte de metal
	I <sub>5</sub>	Sistema de soldadura al arco con protección gaseosa
	I <sub>5</sub>	Soldadura manual por arco eléctrico con electrodos revestidos
	~	Símbolo de corriente alterna
	—	Símbolo de corriente directa

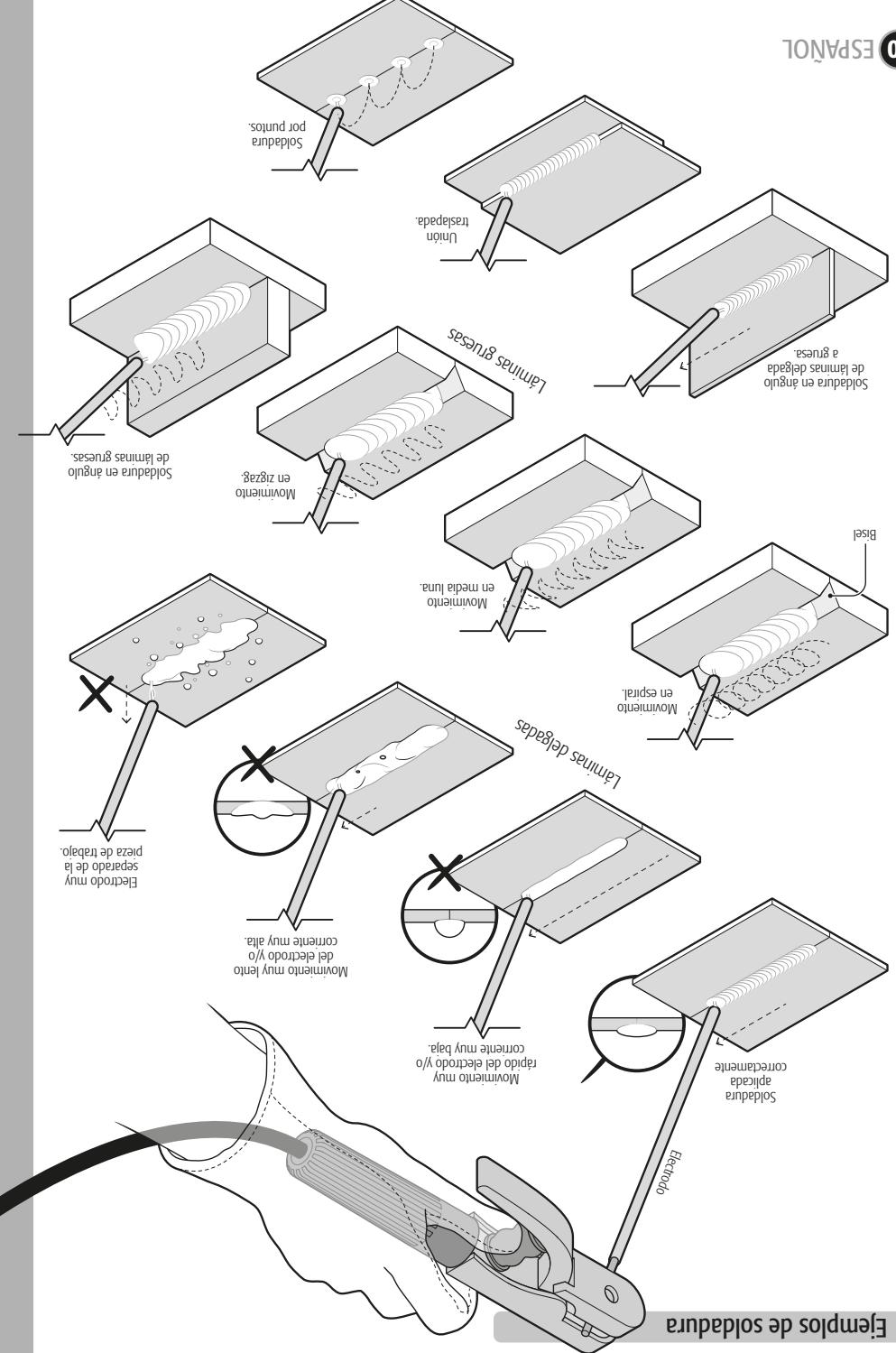
## Simbología

- Se debe limpiar el polvo de la soldadura con aire.
- Los componentes que se deben revisar una vez cada tres meses.
- Junto con la limpieza se debe realizar una revisión para asegurar que no haya partes o componentes sueltos en la soldadura.
- Mantener la clavija del cable de la soldadura en buen estado.
- La clavija debe revisarse antes de cada uso.

## Almacenamiento

## Mantenimiento regular

- En caso que la soldadura vaya a estar almacenada por un período largo de tiempo, se debe mantener en un sitio seco y bien ventilado para evitar que le entre humedad, se expusiera a mucha polvo, la limpieza debe realizarla este de inmediato. En caso haber mucho polvo, se debe limpiarlo. Baso condiciones normales de servicio
- Si se daña la limpieza regular a través de la soldadura con aire
- Mantener la limpieza regular a través de la soldadura en buenas condiciones de servicio.
- AutORIZADO para preparar la soldadura, adquirir suministros o accesorios.
- **A ATENCIÓN** • Solo personal calificado debe hacer las reparaciones. Se recomienda visitar un Centro de Servicio.
- El uso incorrecto y una limpieza regular prolongada la vida útil de la soldadura.



Ejemplos de soldadura

Puesta en marcha

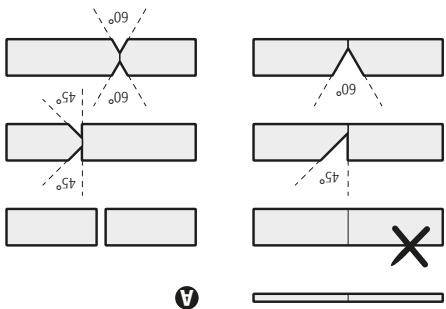
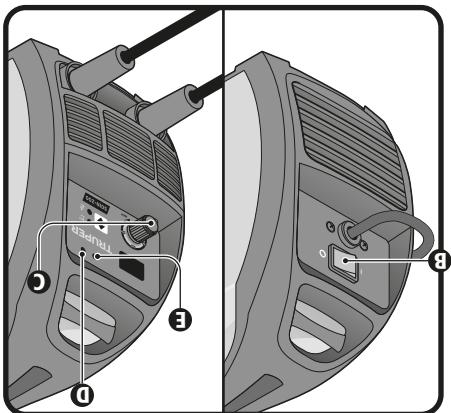
C TRUPER®

Corriente de soldadura (A)	Ampliador de electronodo
20	30º
20 - 100	60º - 90º
100 - 200	90º - 120º

- Los electrodos de Tungsteno deben ser afilados para garantizar la calidad de la soldadura en su dirección.
- La punta del electrodo de tungsteno tiene que tener una forma de cono.
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**A ATENCIÓN!** • El electrodo que une a la temperatura. No intente manipular los restos del electrodo con la mano. Ponga los restos en un contenedor de metal. • Abra la tazaza del electrodo para soltar el electrodo nuevo por la parte recubierta. No solengue el electrodo por la parte recubierta.

## Reemplazo de electrodo



**TRUPER®**

# Puesta en marcha

compound

8. ¿Cuáles son las causas de soldadura?

- Los factores que intervienen en el proceso de soldadura son muchos: currente requerida, distancia entre el electrodo y la pieza de trabajo, velocidad de desplazamiento del electrodo y la pieza de trabajo.

materiales de desecho para determinar cuáles son los reacondicionados específicos del trabajo a realizar.

- La unión entre las piezas debe ser limpia, libre de óxido y precisa.
- La soldadura debe tener una fuerza adhesiva alta.
- La unión entre las piezas debe ser limpia, libre de óxido y precisa.

Soldadura  
de acero (11)

- Coloque el interruptor (B) en posición de encendido (I).  
luz indicadora de energía se encenderá (E).

- Gire el control de ajuste de corriente (C) hasta alcanzar el amperaje requerido para el trabajo.

- Sostenga el porta electronodo o antorchado de la manera mas  
comoda posible. Tome en cuenta que durante el proceso  
solado, el anhulo, movimientito y distanca con respecto a

- Difílja la Punta del eletródo hacia la unión a trabajar para pieza de trabajo deban de ser constantes y uniformes.
- Generar el arco eléctrico y comience a soldar.

- Una vez que el arco encienda comience a soldar, manteniendo siempre la punta del electrodo a 2 mm de la pieza de trabajo. Si realiza la soldadura con el electrodo

- En caso de sobrecalentamiento la soldadura se adherise y la soldadura sera de mala calidad.

funcionar y la luz indicadora de protección térmica (**D**) se encenderá, no apague la soldadora y espere a que la luz indicadora se apague para volverla a utilizar.

**Retro de escota**

- Al emitirme la orden de servicio, daré el cumplimiento de la demanda incluida para retirar la escoria de la superficie del corralón donde se soldaba.
- Espero a que la escoria se haya enfriado.

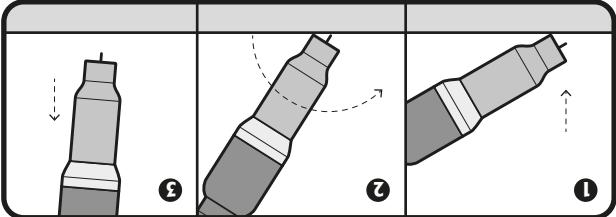
- Al golpear o cepillar la escoria para retírala. Pueden salir partículas despedidas. Utilice protección para los ojos y mantenga a las personas alejadas.
- Y endurecido para poder retírala.

Para procesos con electrodo de tungsteno (TIG) Diametro: 1 mm, 1.6 mm y 2 mm

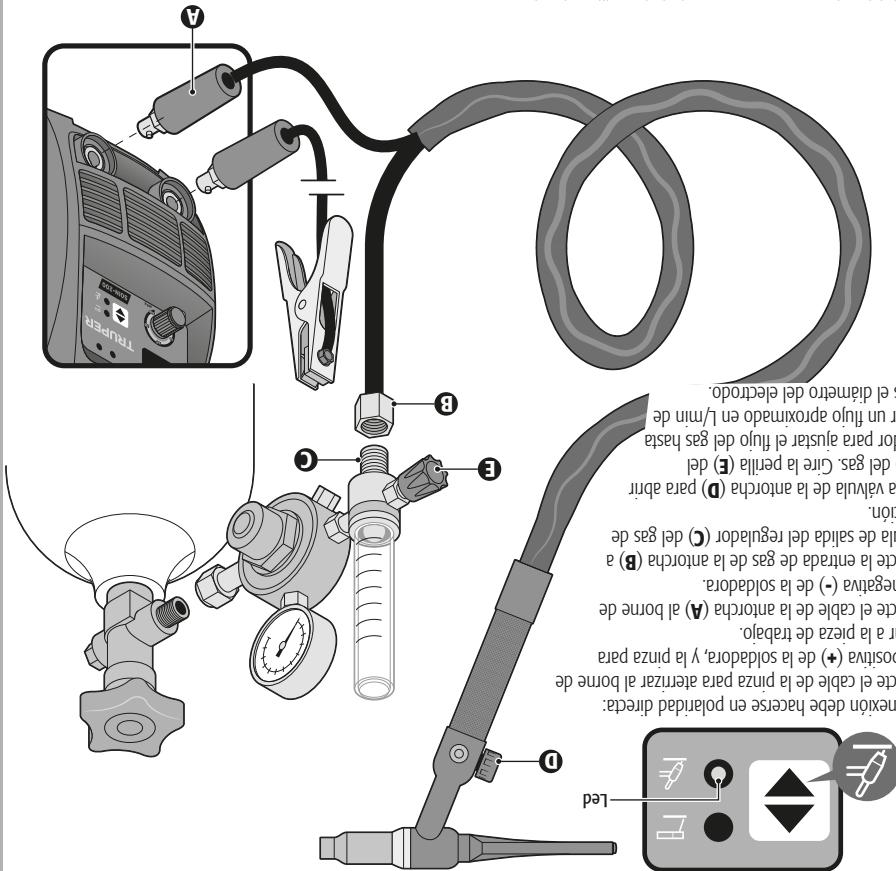
**Diametro:** 3/32" (2.5 mm), 1/8" (3 mm), 5/32" (4 mm)

Diametro:  $\frac{3}{32}$ " (2.5 mm),  $\frac{1}{8}$ " (3 mm),  $\frac{5}{32}$ " (4 mm),  $\frac{3}{16}$ " (5 mm)

**Tipos:** 6013 / 6011



- Para iniciar el arco apoye en ángulo la boquilla sobre la pieza de trabajo (1).
- Llene la boquilla sin separar la boquilla de la pieza de trabajo (2).
- Cuando inicie el arco eléctrico levante la antorcha para traspasar para acercar el electrodo a la pieza de trabajo (3).
- Se recomienda mantener el electrodo a 90° vertical durante el soldado para garantizar la protección del gas.



**NOTA** • La conexión debe hacerse en polaridad directa. • Para este proceso se requiere una antorcha AN-GROUPY un tanque o botella de gas de protección no incluidos.

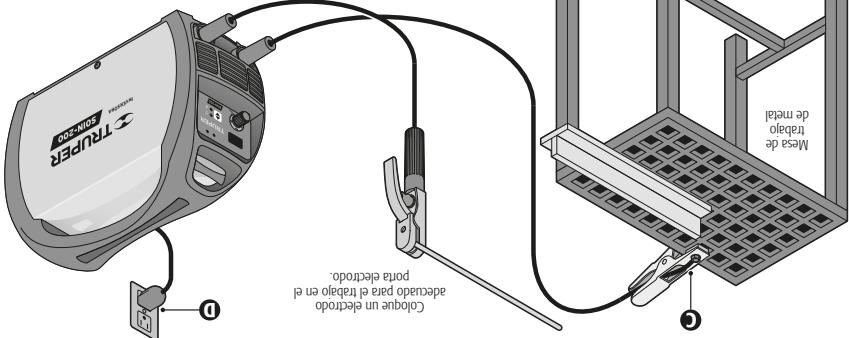
• La soldadura TIG es ideal para soldar acero inoxidable, hierro y cobre. • Los electrodomésticos de tungsteno no consumibles y arco protegido por gas incluyen helio.

• Esta soldadora inversora puede ser utilizada también para soldadura TIG: proceso de soldadura de muy alta calidad con

### Conexión TIG

## Instalación (TIG)

**TRUPER®**



**IV. ADVERTENCIA** Antes de usar la soldadora debé estar completamente puesta a tierra. No debe desinstalar el cable de tierra ya que hacelo propicia lesiones corporales de gran peligro.

- Conecte el cable de alimentación (**D**) a la red de alimentación a la tensión de trabajo (220 V~).

que produce menor deformación de la pieza y corona más estrechos, due la hachon ideal para soldar piezas delgadas.

- Conecte el cable de la placa para alimentar a la salida (+).
  - Conecte el cable de la placa para alimentar a la salida (-).
  - Conecte la placa para alimentar (C) a la pieza de trabajo.
  - Conecte el cable del porta electrodos a la salida (-).
  - Escoja la configuración deseada más cercana a la pieza de trabajo.

Esta configuración genera más calor en el electrodo, lo que produce mayor penetración con electrodos básicos, que la que produce una soldadura de la misma longitud.

- Conecte el cable del portátil a la placa base de la computadora.
  - Conecte el cable del portátil a la placa base de la computadora.
  - Conecte el cable del portátil a la placa base de la computadora.
  - Conecte el cable del portátil a la placa base de la computadora.

**A NOTA** El led superior del selector se encenderá.

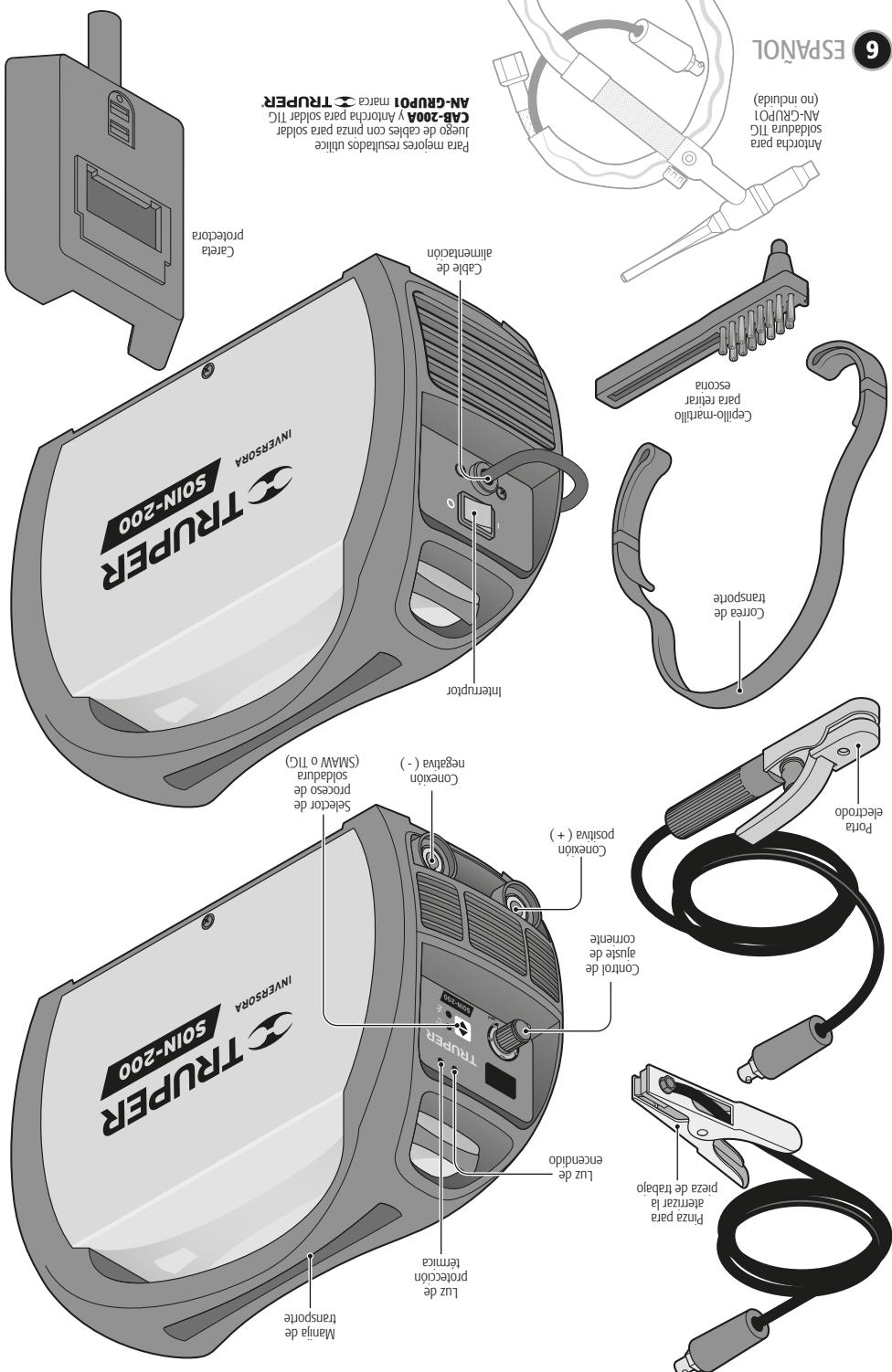
- Las conexiones rápidas del porta electrodo y la pincza para electrotocs, en las páginas 3 y 5.

**A) ATENCIÓN** Para evitar descargas eléctricas es necesario consultar la información de la sección "Requerimientos

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## Instalación (SMA)

Connections









- ATENCIÓN** ▲ Realice **MANTENIMIENTO** periódico a su máquina (página 11).
- HERMAL** ▲ Se recomienda utilizar una extensión calibre 12 AWG (3,31 mm<sup>2</sup>) y conectar en un CENTRO DE CARGA INDEPENDIENTE.
- PROTECT** ▲ Deje enfriar la soldadora por 15 minutos y vuélvala a encenderla.
- Cuando la máquina se SOBRECALIENTA, se activará el protector térmico.

## RECOMENDACIONES DE USO Y CUIDADOS

- 14** Poliza de Garantía
- 13** Centros de Servicio Autorizados
- 12** Solución de problemas
- 11** Simbología
- 11** Mantenimiento
- 6** Puesta en marcha
- 8** Instalación (TIG)
- 7** Instalación (MMAW)
- 6** Partes
- 5** Soldadores inverzados
- 4** Advertencias de Seguridad para uso de soldadoras generales de seguridad
- 3** Requerimientos eléctricos
- 3** Especificaciones técnicas
- Para poder sacar el máximo provecho de la herramienta, alargar su vida útil, hacer válida la garantía en caso de ser necesario y evitar riesgos o lesiones graves, es fundamental leer este instructivo por completo antes de usar la herramienta.
- Guarde este instructivo para futuras referencias.
- Los gráficos de este instructivo son para referencia, pueden variar del aspecto real de la herramienta.

**Índice**

**TRUPER®**



Lea este instructivo por completo  
antes de usar la herramienta.

**ATENCIÓN**



# SON-200



13696 SON-200

Código Modelo

Este instructivo es para:

Clipo de trabajo

**40%**

## Soldadora inversora

Instructivo de

**TRUPER®**

ESPAÑOL  
ENGLISH