

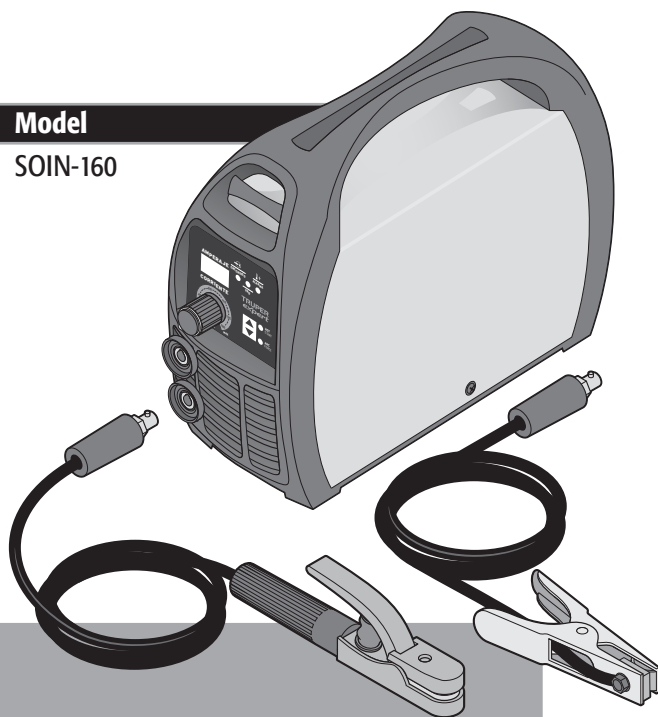
Manual

# Inverter Welders

**40 %**  
Work Cycle

Applies for:

Code	Model
13694	SOIN-160





## SOIN-160



Read this manual thoroughly  
before using the tool.



Technical specifications .....	3
Power requirements .....	3
 General power tools safety warnings .....	4
 Safety warnings for inverter welders .....	5
Parts .....	6
Installation .....	7
Start up .....	8
Maintenance .....	11
Simbology .....	11
Troubleshooting .....	12
Authorized service centers .....	13
Warranty policy .....	14

## 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

 **RESPECT THE DUTY CYCLES**  
40% | 4 minutes' work per 6 minutes' rest



 **OUTPUT CURRENT RANGE:**  
Connected to 220 V ~ 20 A - 160 A

 **COATED ELECTRODE DIAMETERS:**  
6013 - 6011 (3/32", 1/8", 5/32") | 7018 (3/32", 1/8", 5/32")



### THERMAL PROTECT

The machine has a **THERMAL PROTECTOR** that turns off the equipment and lights up the **LED ALARM INDICATOR** if it overheats. If this occurs, let the welder cool down for 15 minutes before turning it back on.

 It is recommended to use a **12 AWG** gauge extension cord and connect it to an **INDEPENDENT POWER PANEL**.

 Perform regular **MAINTENANCE** on your machine (page 11).

# Technical specifications

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**SOIN-160**

Code •	13694
Description •	Inverter Welder
<b>Input</b>	
Voltage •	220 V~
Frequency •	50 Hz / 60 Hz
Current •	32 A
No. of Phases •	2 phase
<b>Output</b>	
Input Rated Capacity •	7.0 kVA
Open Circuit Voltage •	SMAW U <sub>0</sub> 65 V c.c.   VRD U <sub>r</sub> 8.5 V c.c.
Current Range •	20 A - 160 A
Work Cycle •	40%   4 minutes' work per 6 minutes' rest. <small>Output values specified are with a 68 °F    Temperatures higher than the work cycle may be reduced.</small>
Cooling Type •	Fan Forced
Weight •	8.8 lb
Output terminals •	3/8" 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.

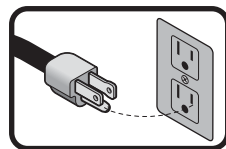
**⚠ CAUTION** • Double check the input connection voltage stipulated in the welder nameplate matches the power supply voltage.

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

Switch	≥ 30 A
Fuse (Work Rated Current)	30 A (*)
Electric Wire	≥ 2.5 mm²

\* 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





**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 losing 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, jewelry, 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. Assume 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 dismount 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.

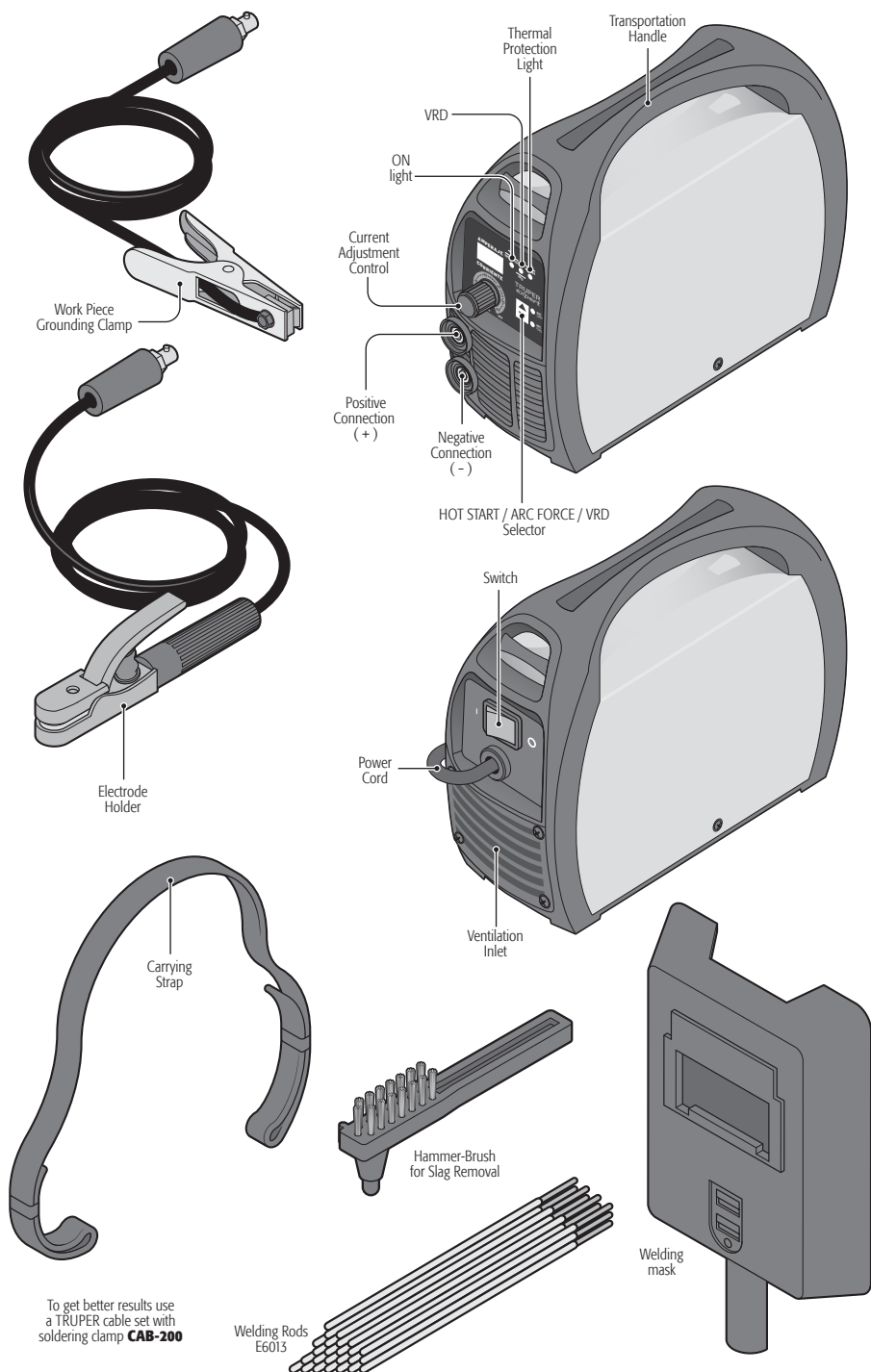
• Store the welder in a place free of humidity with a range of temperature from -13 °F to 131 °F

**⚠ CAUTION** • To prevent rollover, the equipment shall be inclined 10° maximum.

• 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.



## Connections

**⚠ CAUTION** To prevent electric shock please consult information in the “Electrical Requirements” section in pages 3 and 5.

- The fast connections in the electrode holder and the grounding clamp are inserted and turned one quarter of a turn in a clockwise direction in the outlets found in the front panel to be secured.

### Inverse Polarity (A)

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

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

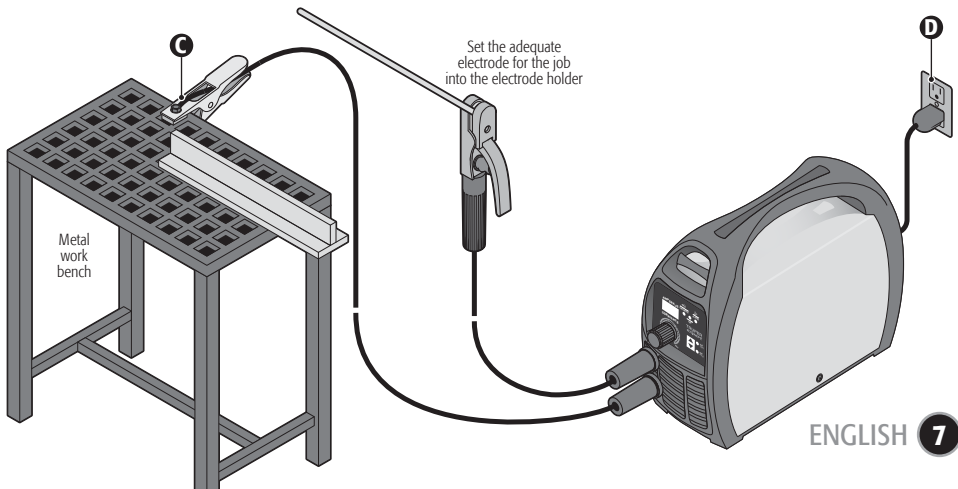
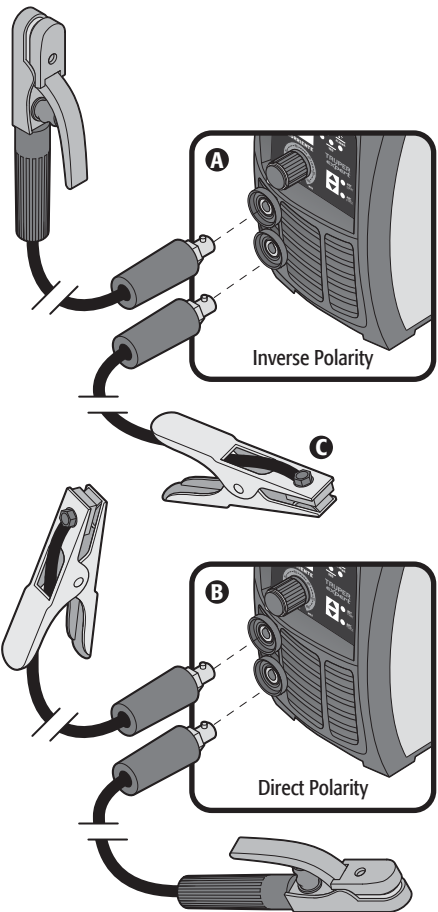
### Direct Polarity (B)

- Connect the grounding clamp cable to the outlet (+).
- Connect the grounding clamp (C) to the work piece.
- Connect the electrode holder to the outlet (–).

This configuration generates more heat in the work piece producing less warping of the piece and narrower cords making it ideal to solder thin pieces.

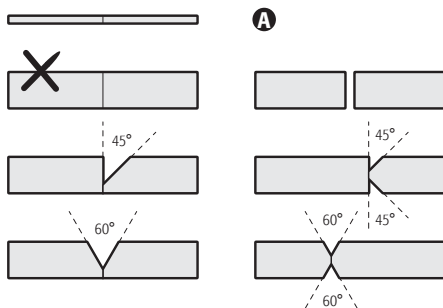
- Connect the feeding cable (D) to the network into the corresponding voltage.

**⚠ WARNING** Before using the welder, it shall be correctly grounded. Failure to comply with this warning propitiates severe personal injuries.



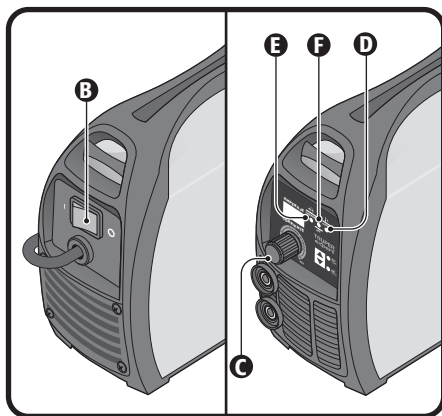
## Preparation

- Only experience, practice and care can guarantee a good welding job.
- The factor 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, 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.

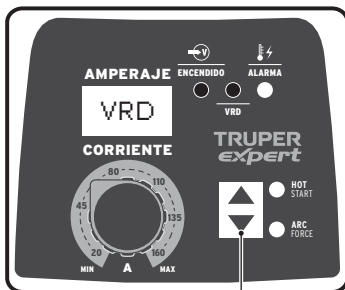


## VRD function

- When the welder is powered on but not actively welding, the VRD indicator LED (F) illuminates, and the machine automatically lowers the output voltage. This feature extends the welder's lifespan, reduces operating costs, and minimizes the risk of electric shock.

### Enable / Disable VRD

- Press the selector button on the control panel.
- The screen will display VRD.
- Turn the current adjustment knob clockwise to enable (I) or counterclockwise to disable (O).



Press 1 times = VRD

Selector boton

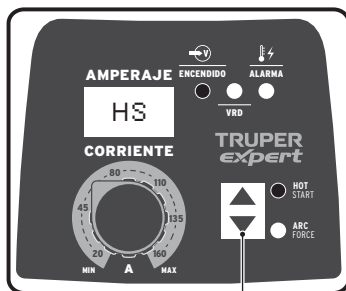


## HOT START function

This helps initiate the arc by temporarily boosting the current when starting to weld. This extra current allows the electrode to light up quickly and effectively. It is beneficial when welding on challenging surfaces, like rusted or coated materials, which may make it harder to start the arc.

### Enable / Disable HOT START

- Press the selector button on the control panel twice.
- The screen will display HS.
- Turn the current adjustment knob clockwise to enhance arc ignition capacity (overcurrent) or clockwise to reduce it.



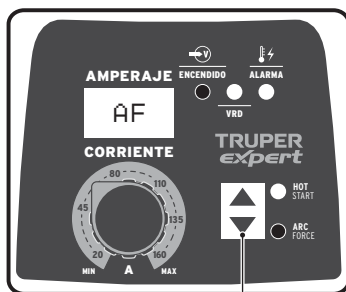
Press 2 times = HOT START

## ARC FORCE function

Automatically adjusts the current during welding, especially in stick welding (SMAW). This temporary adjustment kicks in when the arc becomes too short, that is, when the electrode gets too close to the workpiece, which could cause the electrode to stick.

### Enable / Disable ARC FORCE

- Press the selector button on the control panel three times.
- The screen will display AF.
- Turn the current adjustment knob clockwise to temporarily boost the output current during welding or counterclockwise to lower it.



Press 3 times = ARC FORCE

## 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"

Type: 7018

Diameter: 3/32", 1/8", 5/32"

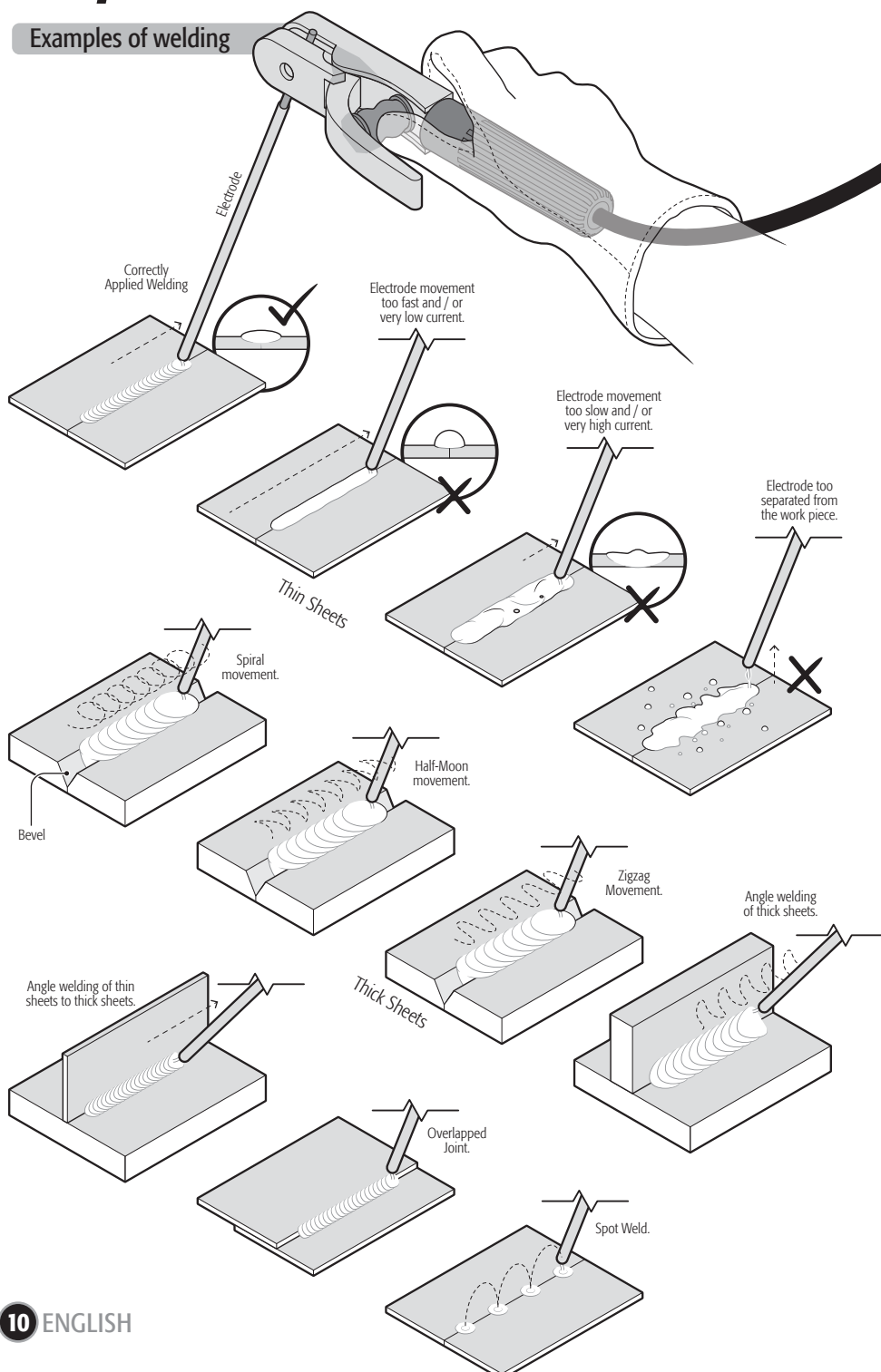
## Electrode Replacement

- 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.

### 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
$x$	Work cycle symbol (service factor)
$I_2$	Nominal welding current symbol
$U_2$	Conventional load voltage symbol
$U_{0...} V$	Rated open circuit voltage
$U_{1...} V$	Rated power voltage
$U_r ... V$	Voltage reduction device (VRD)
$I_{1 \max} ... A$	Maximum rated power
$I_{1 \text{ eff}} ... A$	Maximum effective power
IP	Protection degree (solid objects and water submersion)
	Converter - transformer - single-phase static frequency rectifier
$\sim$	AC symbol
SMAW	Electric-arc manual welding with coated electrodes

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

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In the event of any problem contacting a TRUPER Authorized Service Center, please see our webpage **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** **DE TODO PARA LA CONSTRUCCIÓN**  
GRAL. BARRAGÁN #1201, COL. GREMIAL, C.P. 20030,  
AGUASCALIENTES, AGS. TEL.: 449 994 0537

**BAJA CALIFORNIA** **SUCURSAL TIJUANA**  
AV. LA ENCANTADA, LOTE #5, PARQUE INDUSTRIAL EL  
FLORIDO II, C.P. 22244, TIJUANA, B.C.  
TEL.: 664 969 5100

**BAJA CALIFORNIA SUR** **FIX FERRETERÍAS**  
FELIPE ÁNGELES ESQ. RUIZ CORTÍNEZ S/N, COL. PUEBLO  
NUEVO, C.P. 23670, CD. CONSTITUCIÓN, B.C.S.  
TEL.: 613 132 1115

**CAMPECHE** **TORNILLERÍA Y FERRETERÍA AAA**  
AV. ÁLVARO OBREGÓN #524, COL. ESPERANZA  
C.P. 24080 CAMPECHE, CAMP. TEL.: 981 815 2808

**CHIAPAS** **FIX FERRETERÍAS**  
AV. CENTRAL SUR #27, COL. CENTRO, C.P. 30700,  
TAPACHULA, CHIS. TEL.: 962 118 4083

**CHIHUAHUA** **SUCURSAL CHIHUAHUA**  
AV. SILVESTRE TERRAZAS #128-11, PARQUE INDUSTRIAL  
BAFAR, CARRETERA MÉXICO CUAUHTÉMOC, C.P. 31415,  
CHIHUAHUA, CHIH. TEL.: 614 434 0052

**MEXICO CITY** **FIX FERRETERÍAS**  
EL MONSTRUO DE CORREGIDORA, CORREGIDORA #35,  
COL. CENTRO, C.P. 06060, CUAUHTÉMOC, CDMX.  
TEL.: 55 5522 5051 / 5522 4861

**COAHUILA** **SUCURSAL TORREÓN**  
CALLE METAL MECÁNICA #280, PARQUE INDUSTRIAL  
ORIENTE, C.P. 27278, TORREÓN, COAH.  
TEL.: 817 209 68 23

**COLIMA** **BOMBAS Y MOTORES BYMTESA DE MANZANILLO**  
BLVD. MIGUEL DE LA MADRID #190, COL. 16 DE  
SEPTIEMBRE, C.P. 28239, MANZANILLO, COL.  
TEL.: 314 332 1986 / 332 8013

**DURANGO** **TORNILLOS ÁGUILA, S.A. DE C.V.**  
MAZURIO #200, COL. LUIS ECHEVERRÍA, DURANGO,  
DGO. TEL.: 618 817 1946 / 618 818 2844

**ESTADO DE MÉXICO** **SUCURSAL CENTRO JILOTEPEC**  
PARQUE INDUSTRIAL # 1, COL. PARQUE INDUSTRIAL  
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