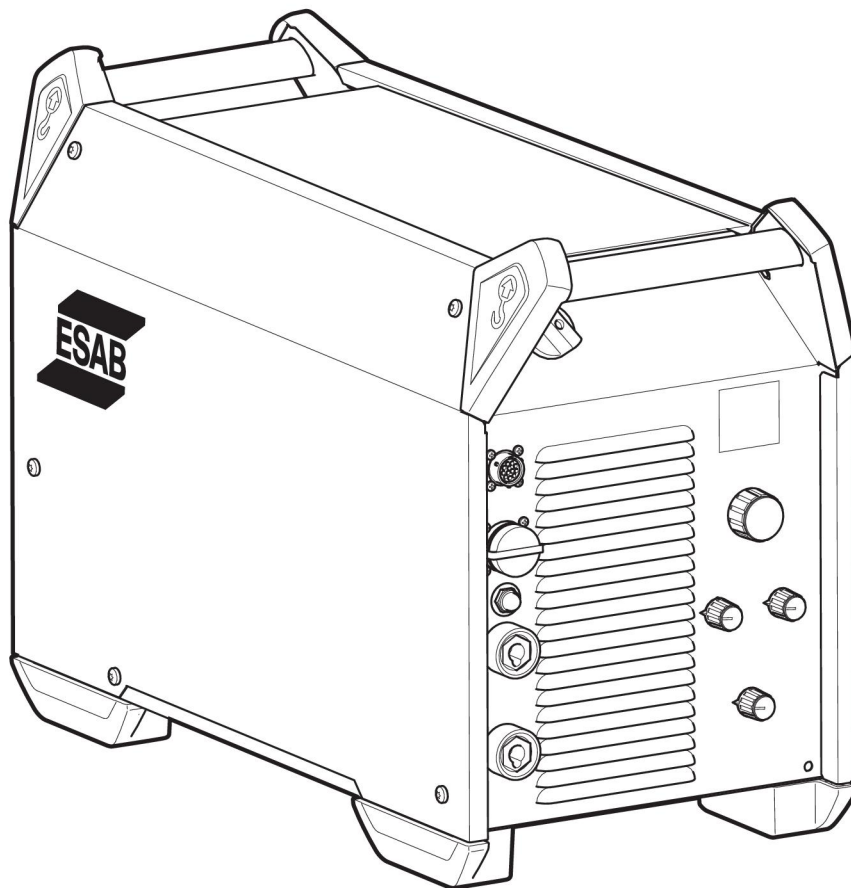




Warrior™ 500i CC/CV










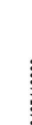


Instruction manual

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1 US WARNINGS

 WARNING	 ADVERTENCIA	 AVERTISSEMENT	
	<p>PROTECT yourself and others. ARC PROCESSES can be hazardous.</p> <ul style="list-style-type: none"> • Before use, read and follow all labels, the manufacturer's instruction manual, employer's safety practices, and Material Safety Data Sheets (MSDSs). • Only qualified persons are to install, use, or service this equipment. 	<p>PROTÉJASE y proteja a los demás. PROCESOS DE ARCO pueden ser peligrosos.</p> <ul style="list-style-type: none"> • Antes de utilizarlo, lea y siga todas las etiquetas, el manual de instrucciones del fabricante, las prácticas de seguridad del empleador y las Hojas de datos de seguridad de los materiales (MSDS). • Únicamente personal calificado puede instalar, utilizar o brindar servicio a este equipo. 	<p>SE PROTÉGER et protéger l'entourage ! ARCS DE SOUDAGE peuvent être dangereux.</p> <ul style="list-style-type: none"> • Avant utilisation, lire et suivre les indications des étiquettes, le manuel du fabricant, les pratiques de sécurité de l'employeur et les fiches techniques santé-sécurité. • L'installation, l'utilisation et la réparation sont réservées aux personnes qualifiées.
	<p>ELECTRIC SHOCK can kill.</p> <ul style="list-style-type: none"> • Do not touch live electrical parts. • Always wear dry insulating gloves. • Insulate yourself from work and ground. • Disconnect input power before servicing unit. 	<p>DESCARGAS ELÉCTRICAS pueden ser mortales.</p> <ul style="list-style-type: none"> • No toque partes eléctricas energizadas. • Utilice siempre guantes aislantes secos. • Aísele del equipo con el que está trabajando y respecto de tierra. • Antes de brindar servicio a la unidad, desconecte la entrada de alimentación. 	<p>DÉCHARGE ÉLECTRIQUE – Danger de mort.</p> <ul style="list-style-type: none"> • Ne pas toucher les parties conductrices. • Toujours porter des gants isolants secs. • S'isoler du sol et de la pièce à souder. • Déconnecter l'alimentation avant de réparer l'appareil.
	<p>FUMES AND GASES can be hazardous to your health.</p> <ul style="list-style-type: none"> • Keep your head out of the fumes. • Use enough ventilation, exhaust at the arc, or both to keep fumes and gases from your breathing zone and the general area. 	<p>HUMOS Y GASES pueden ser peligrosos para la salud.</p> <ul style="list-style-type: none"> • Mantenga la cabeza alejada de los humos. • Disponga una ventilación suficiente o una vía de salida en el arco, o ambas, para mantener humos y gases alejados de su zona de respiración y del área general. 	<p>FUMÉES ET GAZ peuvent être nocifs pour la santé.</p> <ul style="list-style-type: none"> • Éloigner le visage des fumées de soudage. • Veiller à ventiler et aspirer suffisamment les fumées de soudage pour assurer un environnement de travail sain.
	<p>SPARKS AND SPATTER can cause fire or explosion.</p> <ul style="list-style-type: none"> • Do not use near flammable material. • Do not use on closed containers. 	<p>CHISPAS Y SALPICADURAS pueden provocar incendios o explosiones.</p> <ul style="list-style-type: none"> • No utilizar cerca de materiales inflamables. • No utilizar en contenedores cerrados. 	<p>ÉTINCELLES ET PROJECTIONS peuvent causer un incendie ou une explosion.</p> <ul style="list-style-type: none"> • Ne pas utiliser à proximité de matériaux inflammables. • Ne pas utiliser sur des conteneurs clos.
	<p>ARC RAYS can injure eyes and burn skin. NOISE can damage hearing.</p> <ul style="list-style-type: none"> • Wear correct eye, ear, and body protection. 	<p>RAYOS EMITIDOS POR LOS ARCOS ELÉCTRICOS pueden dañar los ojos y quemar la piel. RUIDOS FUERTES pueden dañar la audición.</p> <ul style="list-style-type: none"> • Use la protección ocular, auditiva y corporal correcta. 	<p>RADIATIONS LUMINEUSES DE L'ARC – Danger pour les yeux et la peau. BRUITS FORTS – Danger pour l'ouïe.</p> <ul style="list-style-type: none"> • Bien protéger le corps, les yeux et les oreilles.
	<p>MOVING PARTS can injure.</p> <ul style="list-style-type: none"> • Keep away from moving parts. • Keep all doors, panels, covers, and guards closed and securely in place. 	<p>PARTES MÓVILES pueden provocar lesiones.</p> <ul style="list-style-type: none"> • Manténgase alejado de las partes móviles. • Mantenga todas las puertas, cubiertas, protecciones y paneles cerrados y sujetos en su lugar. 	<p>ÉLÉMENTS MOBILES – Danger de blessure</p> <ul style="list-style-type: none"> • Rester à distance des éléments mobiles. • Maintenir les portes, panneaux, couvercles et protections bien fermés.
	<p>DO NOT REMOVE, DESTROY OR COVER THIS LABEL</p>	<p>NO RETIRAR, DESTRUIR O CUBRIR ESTA ETIQUETA.</p>	<p>NE PAS RETIRER, DÉTRUIRE OU RECOUVRIR CETTE ÉTIQUETTE</p>

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2 SAFETY

Users of ESAB equipment have the ultimate responsibility for ensuring that anyone who works on or near the equipment observes all the relevant safety precautions. Safety precautions must meet the requirements that apply to this type of equipment. The following recommendations should be observed, in addition to the standard regulations that apply to the workplace.

All work must be carried out by trained personnel well-acquainted with the operation of the equipment. Incorrect operation of the equipment may lead to hazardous situations, which could result in injury to the operator and damage to the equipment.

1. Anyone who uses the equipment must be familiar with:
 - its operation
 - the location of emergency stops
 - its function
 - the relevant safety precautions
 - welding and cutting or other applicable operation of the equipment
2. The operator must ensure that:
 - no unauthorised person is within the working area of the equipment when it is started up
 - no-one is unprotected when the arc is struck or work is started with the equipment
3. The workplace must:
 - be suitable for the purpose
 - be free from drafts
4. Personal safety equipment:
 - Always wear recommended personal safety equipment, such as safety glasses, flame-proof clothing, safety gloves
 - Do not wear loose-fitting items, such as scarves, bracelets, rings, etc., which could become trapped or cause burns
5. General precautions:
 - Make sure the return cable is connected securely
 - Work on high voltage equipment **may only be carried out by a qualified electrician**
 - Appropriate fire extinguishing equipment must be clearly marked and close at hand
 - Lubrication and maintenance must **not** be carried out on the equipment during operation

**WARNING!**

Arc welding and cutting can be injurious to yourself and others. Take precautions when welding and cutting. Ask for your employer's safety practices, which should be based on manufacturers' hazard data.

ELECTRIC SHOCK - Can kill

- Install and earth the unit in accordance with applicable standards
- Do not touch live electrical parts or electrodes with bare skin, wet gloves or wet clothing
- Insulate yourself from earth and the workpiece
- Ensure your working stance is safe

FUMES AND GASES - Can be dangerous to health

- Keep your head out of the fumes
- Use ventilation, extraction at the arc, or both, to take fumes and gases away from your breathing zone and the general area

ARC RAYS - Can injure eyes and burn skin

- Protect your eyes and body. Use the correct welding screen and filter lens and wear protective clothing
- Protect bystanders with suitable screens or curtains

FIRE HAZARD

- Sparks (spatter) can cause fire. Therefore, make sure there are no flammable materials nearby

NOISE - Excessive noise can damage hearing

- Protect your ears. Use earmuffs or other hearing protection. Protect your ears. Use earmuffs or other hearing protection
- Warn bystanders of the risk

MALFUNCTION - Call for expert assistance in the event of malfunction.

Read and understand the instruction manual before installing or operating.

PROTECT YOURSELF AND OTHERS!

REFERENCE TO CAN/CSA-W117.2-06

**WARNING!**

Do not use the power source for thawing frozen pipes.

**CAUTION!**

Read and understand the instruction manual before installing or operating.

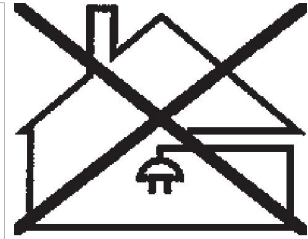
**CAUTION!**

This product is solely intended for arc welding.



CAUTION!

Class A equipment is not intended for use in residential locations where the electrical power is provided by the public low-voltage supply system. There may be potential difficulties in ensuring electromagnetic compatibility of class A equipment in such locations, due to conducted as well as radiated disturbances.



ESAB can provide you with all necessary welding protection and accessories.

3 INTRODUCTION

3.1 Overview

The **Warrior 500i CC/CV** is a welding power source intended for GMAW welding, as well as for welding with powder-filled cored wire (FCAW-S), for GTAW welding, for welding with coated electrodes (SMAW) and arc air gouging.

The power sources are intended for use with the following wire feed units:

- Warrior Feed 304
- Warrior Feed 304w

ESAB's accessories for the product can be found in the "ACCESSORIES" chapter of this manual.

3.2 Equipment

The power source is delivered with:

- 5 m return cable with ground clamp
- Instruction manual

4 TECHNICAL DATA

Warrior 500i CC/CV	
Mains voltage	380 V; 440 V; 460 V; 575 V \pm 10%, 3~ 50/60 Hz
Primary current I_{\max} . GMAW - MIG	38 A
I_{\max} . GTAW - TIG	31 A
I_{\max} . SMAW - MMA	38 A
No load power in energy-saving mode 6.5 min. after welding	40 W
Setting range GMAW - MIG flat characteristic	16 A/15 V-500 A/39 V
GTAW - TIG drooping characteristic	5 A/10 V-500 A/30 V
SMAW - MMA drooping characteristic	16 A/20 V-500 A/40 V
Permissible load at GMAW 60% duty cycle	500 A/39 V
100% duty cycle	400 A/34 V
Permissible load at GTAW 60% duty cycle	500 A/30 V
100% duty cycle	400 A/26 V
Permissible load at SMAW 60% duty cycle	500 A/40 V
100% duty cycle	400 A/36 V
Power factor at maximum current GMAW	0.87
GTAW	0.83
SMAW	0.87
Efficiency at maximum current GMAW	90%
GTAW	88%
SMAW	90%
Electrode types	Basic Rutile Cellulosic
Open-circuit voltage without VRD function	84 V DC
Apparent power at maximum current	31.7 kVA
Active power at maximum current	22.6 kW
Operating temperature	-50 to 104°F (-10 to 40°C)
Transportation temperature	-68 to 131°F (-20 to 55°C)
Constant sound pressure when idling	<70 db (A)

Warrior 500i CC/CV	
Dimensions l × w × h	28.1 x 12.8 x 18.5 inch (712 x 325 x 470 mm)
Weight (welding power source)	115.7 lbs (52.5 kg)
Insulation class	H
Enclosure class	IP 23
Application class	S

Duty cycle

The duty cycle refers to the time, expressed as a percentage of a ten-minute period, during which you can weld or cut at a certain load without overloading. The duty cycle is valid for 104°F (40°C).

Enclosure class

The **IP** code indicates the enclosure class, i.e. the degree of protection against penetration by solid objects or water.

Equipment marked **IP23** is intended for indoor and outdoor use.

Application class

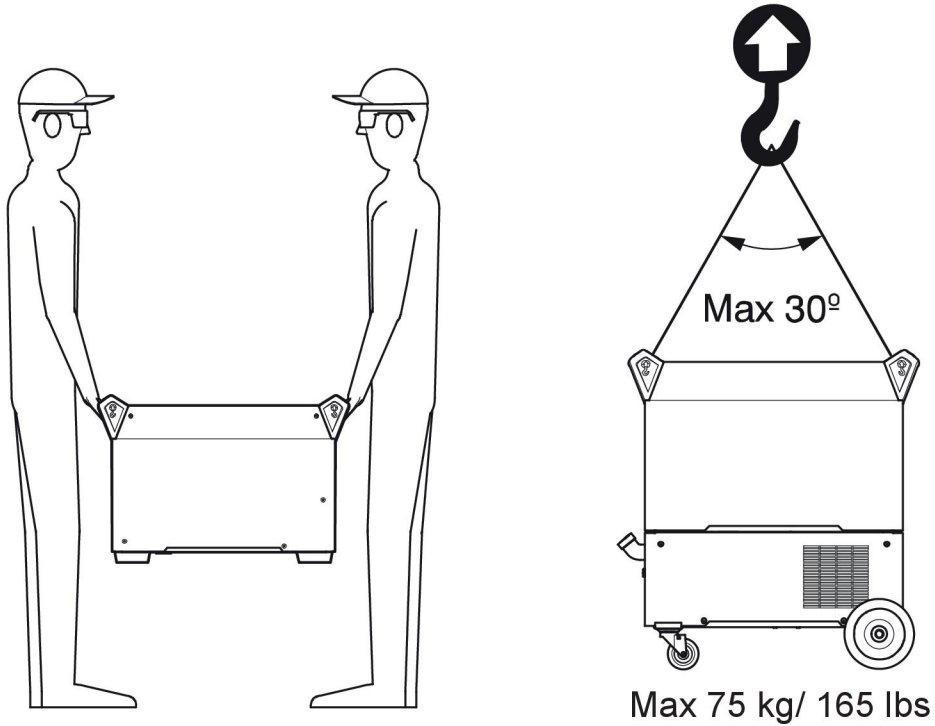
The symbol S indicates that the power source is designed for use in areas with increased electrical hazard.

5 INSTALLATION

5.1 General

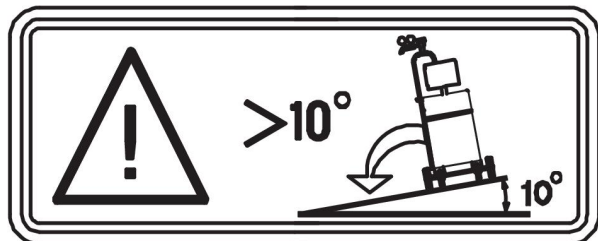
The installation must be carried out by a professional.

5.2 Lifting instructions



WARNING!

Secure the equipment - particularly if the ground is uneven or sloping.



5.3 Location

Position the welding power source such its cooling air inlets and outlets are not obstructed.

5.4 Mains supply

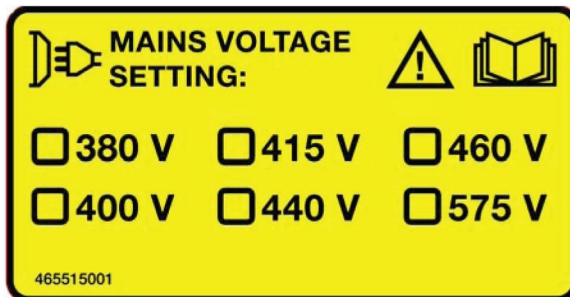


NOTE!

Mains supply requirements

High power equipment, due to the primary current drawn from the mains supply, may influence the power quality of the grid. Therefore, connection restrictions or requirements regarding the maximum permissible mains impedance, or the required minimum supply capacity at the interface point to the public grid, may apply for some types of equipment (see technical data). In this case, it is the responsibility of the installer or user of the equipment to ensure, in consultation with the distribution network operator if necessary, that the equipment may be connected.

Make sure that the welding power source is connected to the correct supply voltage and that it is protected by the correct fuse rating. A protective ground connection must be made in accordance with regulations.



Rating plate with supply connection data

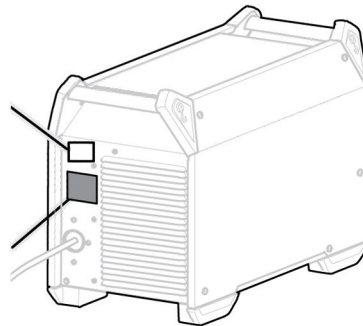


Table 1. Recommended fuse sizes and minimum cable area Warrior 500i CC/CV

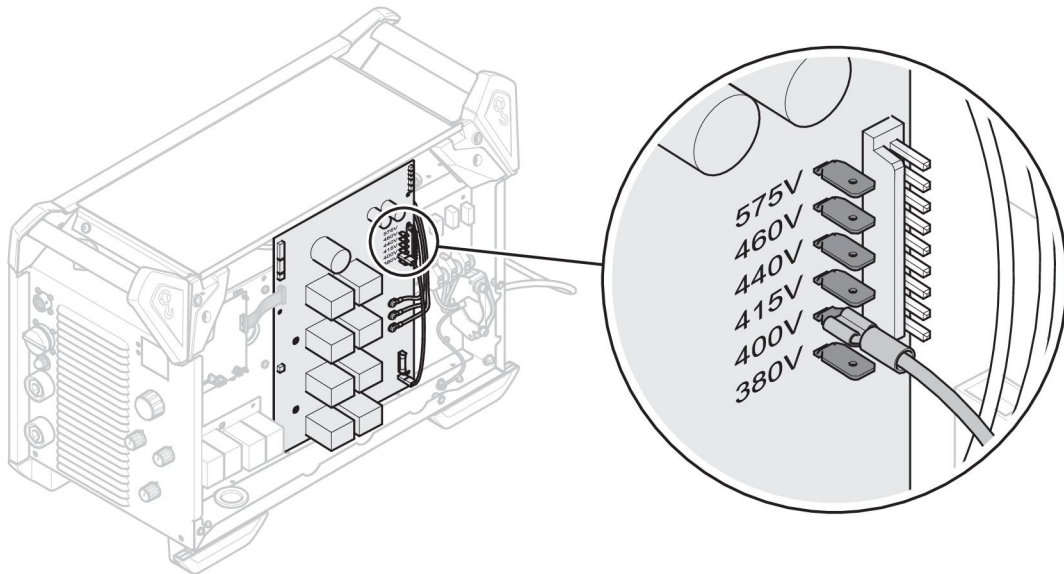
Warrior 500i CC/CV		
Mains voltage	380V 3~ 50/60 Hz	440V 3~ 50/60 Hz
Mains cable area	4C 8Awg / 4G 6mm ²	4C 8Awg / 4G 6mm ²
Phase current I_{eff}	30A	28A
Fuse		
anti-surge	35A	35A
type C MCB	32A	32A
Warrior 500i CC/CV		
Mains voltage	460V 3~ 50/60 Hz	575V 3~ 50/60 Hz
Mains cable area	4C 8Awg / 4G 6mm ²	4C 8Awg / 4G 6mm ²
Phase current I_{eff}	28A	24A
Fuse		
anti-surge	35A	25A
type C MCB	32A	25A



NOTE!

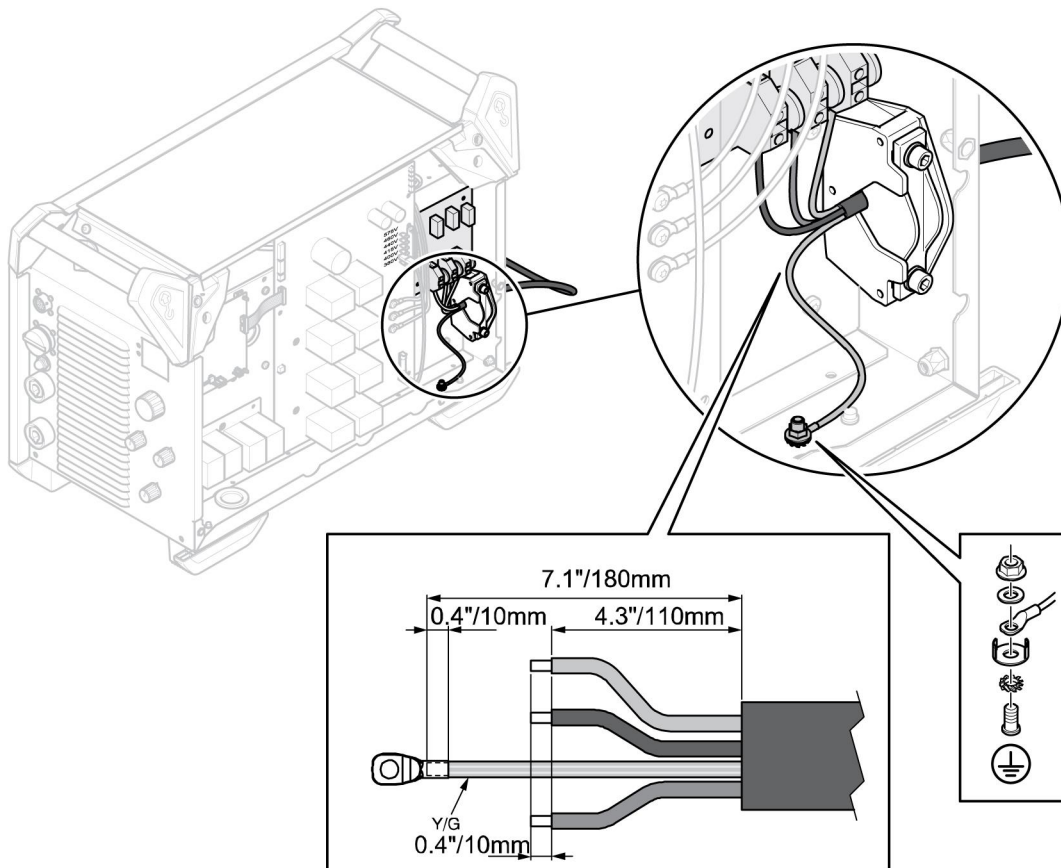
The mains cable areas and fuse sizes as shown above are in accordance with Swedish regulations. Use the power source in accordance with the relevant national regulations.

Connection instruction



The power source is connected to 460V from the factory. If a different mains voltage is required, the cable on the printed circuit board must be moved and placed on the correct pin. See picture above. This operation must be carried out by personnel with the appropriate electrical knowledge.

Installation of mains cable

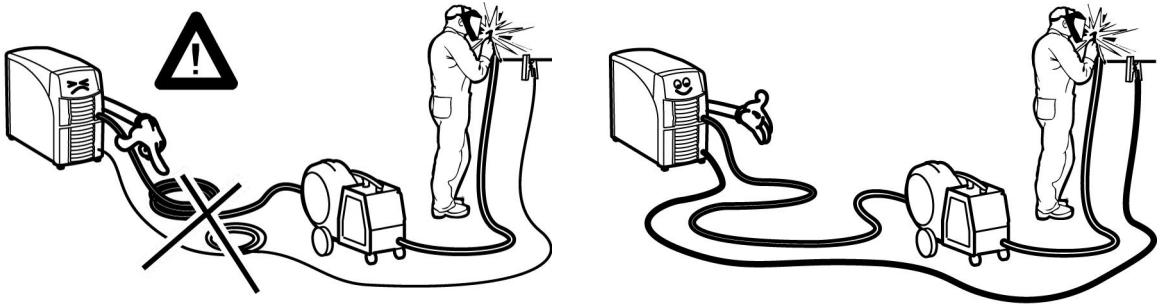


A mains cable needs to be installed. It is then important that the ground connection to the bottom plate be made in a correct way. See the picture above, for the order in which the washers, nuts and screws are placed.

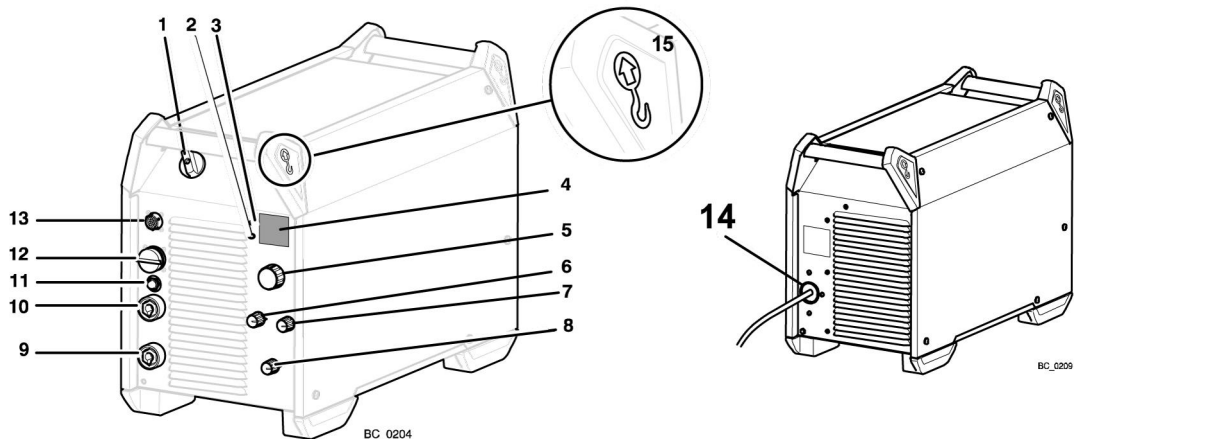
6 OPERATION

6.1 Overview

General safety regulations for handling the equipment can be found in the chapter "Safety". Read it before you start the equipment.



6.2 Connections and control devices



- | | |
|---|--|
| 1. Mains power supply switch, O/I | 9. Connection (-): MIG/MAG: Return cable
TiG: Welding torch MMA: Return cable or welding cable |
| 2. Indicator lamp, yellow, overheating | 10. Connection (+): MIG/MAG: Welding cable
TiG: Return cable MMA: Welding cable or return cable |
| 3. Indicator lamp, green, VRD function (reduced open-circuit voltage) | 11. Circuit breaker, 10 A, 42 V |
| 4. Display, current (A) and voltage (V) | 12. Connection for wire feed unit |
| 5. Knob for setting: SMAW/GTAW: Current (A) | 13. Connection for remote control unit (option) |
| 6. Knob for selecting electrode type | 14. Connection for mains power supply |
| 7. Knob for inductance (MIG/MAG) and arc force (MMA): | 15. Lifting eye bolt |
| 8. Knob for welding method | |

6.3 Connecting welding and return cables

The power source has two outputs, a positive terminal (+) and a negative terminal (-), for connecting welding and return cables. The output to which the welding cable is connected depends on the welding method or type of electrode used.

Connect the return cable to the other output on the power source. Secure the return cable's contact clamp to the workpiece and ensure there is a good contact between the workpiece and the output for the return cable on the power source.

For SMAW welding, the welding cable can be connected to the positive terminal (+) or negative terminal (-), depending on the type of electrode used. The connection polarity is stated on the electrode packaging.

6.4 Turning the mains power on/off

Turn on the mains power, by turning switch to the "I" position, see 1 in the picture above.

Turn the unit off by, turning the switch to the "O" position.

Whether the mains power supply is interrupted or the power source is switched off in the normal manner, the welding data will be stored so it is available the next time the unit is started.







CAUTION!







Do not turn off the power source during welding (with load).

6.5 Fan control

The power source has a time control, this means that the fans continue to run for 6.5 minutes after welding has stopped, and the power source switches to energy-saving mode. The fans start again when welding restarts.

6.6 Symbols and functions

	Location of lifting eye	VRD	Voltage Reducing Device
	Overheating protection	Basic	Basic electrode
Rutile	Rutile electrode	Cel	Cellulosic electrode
	Arc force		Inductance

	TIG welding (Live TIG)		Arc air gouging
	MMA welding		MIG/MAG welding
 Mobile Feed CV	Wire feed unit Mobile feed CV (Constant voltage)		Protective ground

Voltage reducing device (VRD)

The VRD function ensures that the open-circuit voltage does not exceed 35 V when welding is not being carried out. This is indicated by a lit VRD led.

The VRD function is blocked when the system detects that welding has started.

Contact an authorized ESAB service technician to activate this function.

Overheating protection

The welding power source has overheating protection that trips if the temperature becomes too high. When this occurs, the welding current is interrupted and an overheating indication lamp is lit.

The overheating protection resets automatically when the temperature has fallen back to the normal working temperature range.

Arc force

The arc force is important in determining how the current changes in response to a change in the arc length. A lower value gives a calmer arc with less spatter.

It only applies to SMAW welding.

Inductance

Higher inductance results in a wider weld pool and less spatter. Lower inductance produces a harsher sound, but a stable, concentrated arc.

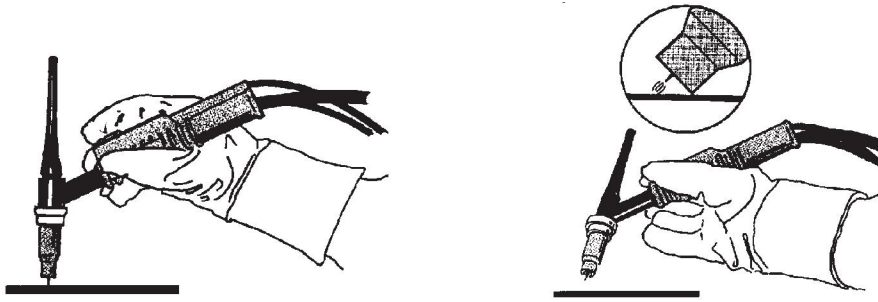
It only applies to GMAW welding.

GTAW welding

GTAW welding melts the metal of the workpiece, using an arc struck from a tungsten electrode that does not itself melt. The weld pool and electrode are protected by shielding gas.

"Live TIG-start"

At a "Live TIG-start", the tungsten electrode is placed against the workpiece. When the electrode is lifted away from workpiece, the arc is struck at a limited current level.



For GTAW welding, the welding power source must be supplemented with:

- a TIG torch with gas valve
- an argon gas cylinder
- an argon gas regulator
- tungsten electrode

Arc air gouging

For arc air gouging, a special electrode comprising a carbon rod with a copper casing is used.

An arc is formed between the carbon rod and the workpiece, which melts the material. Compressed air is supplied, so the melted material is blown away.

For arc air gouging the power source must be supplemented with:

- arc air torches
- compressed air
- return cable with clamp

Table 2. Recommended for gouging

Electrode	Voltage min.	Voltage max.	Electrode Extension
6 mm (1/4")	36 V	49 V	50 - 76 mm (2 - 3")
8 mm (5/16")	39 V	52 V	
10 mm (3/8")	43 V	52 V	

SMAW welding

SMAW welding may also be referred to as welding with coated electrodes. Striking the arc melts the electrode, and its coating forms protective slag.

For SMAW welding, the power source must be supplemented with:

- welding cable with electrode holder
- return cable with clamp

GMAW and self-shielded cored wire welding

An arc melts a wire that is fed continuously. The weld pool is protected by shielding gas.

For GMAW and self-shielded core wire welding, the power source must be supplemented with:

- wire feed unit
- welding torch
- connection cable between the power source and wire feed unit
- gas cylinder
- return cable with clamp

7 MAINTENANCE

7.1 Overview

Regular maintenance is important for safe, reliable operation.

Only personnel with appropriate electrical skills (authorized staff) may remove safety plates.



CAUTION!

All warranty undertakings from the supplier cease to apply if the customer attempts any work to rectify any faults in the product during the warranty period.

7.2 Power source

To maintain the performance and increase the lifetime of the power source it is mandatory to clean the product regularly. How often depends on:

- the welding process
- the arc time
- the working environment
- the surrounding environment, that is grinding etc.

Tools needed for the cleaning procedure:

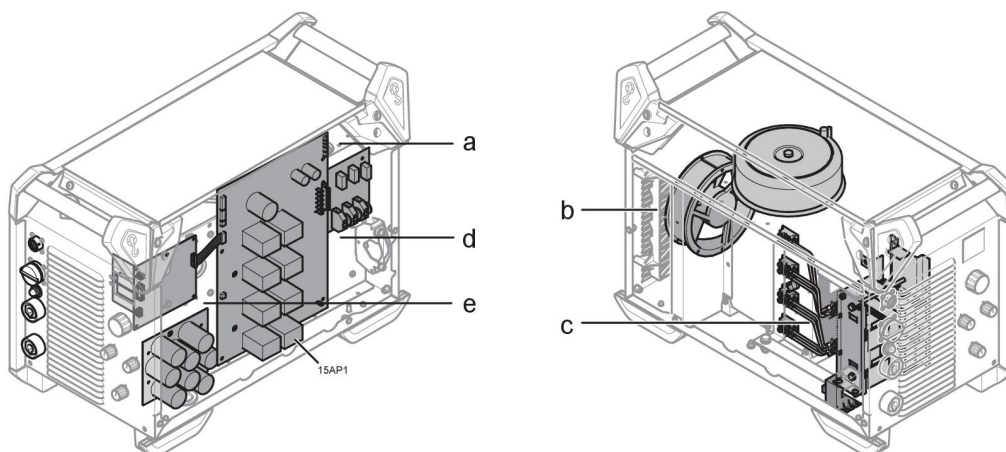
- torx screwdriver, T25 and T30
- dry compressed air at a pressure of 4 bar
- protective equipment like earplugs, safety glasses, masks, gloves and safety shoes



CAUTION!

Make sure that the cleaning procedure is done in a suitable prepared workspace.

Cleaning procedure



1. Disconnect the mains supply.
2. Wait for 4 minutes to discharge the capacitors.
3. Remove the side panels on the power source.
4. Remove the top panel on the power source.
5. Remove the plastic cover between the heat sink and fan (b).

6. Clean the power source with dry compressed air (4 bar) as follows:
 - a) The upper rear part.
 - b) From the rear panel through the secondary heat sink.
 - c) The inductor, transformer and current sensor.
 - d) The power components side, from the rear side behind PCB 15AP1.
 - e) The PCBs at both sides.
7. Make sure that there is no dust left on any part.
8. Install the plastic cover between the heat sink and the fan (2) and make sure it is correctly fitted against the heat sink.
9. Do a test of the power source according to IEC 60974-4. Follow the procedure in section "After repair, inspection and test" in the Service manual.
10. Install the top panel on the power source.
11. Install the side panels on the power source.
12. Connect the mains supply.

7.3 Welding torch

A regular program of care and maintenance reduces unnecessary and expensive downtime.

Each time a wire bobbin is changed, the welding torch should be removed from the power source and blown clean using compressed air.

The wire end must not have sharp edges when inserted into the wire liner.

For detailed information, see the instruction manuals for welding torches.

8 TROUBLESHOOTING

Try these recommended checks and inspections before sending for an authorized service technician.

Type of fault	Corrective action
No arc.	<ul style="list-style-type: none"> • Check that the mains power supply switch is turned on. • Check that the mains, welding and return cables are correctly connected. • Check that the correct current value is set. • Check the mains power supply fuses.
The welding current is interrupted during welding.	<ul style="list-style-type: none"> • Check whether the overloading protection has tripped (indicated on the front). • Check the mains power supply fuses. • Check that the return cable is correctly fastened.
The overheating protection trips frequently.	<ul style="list-style-type: none"> • Make sure that you are not exceeding the rated data for the power source (i.e. that the unit is not being overloaded).
Poor welding performance.	<ul style="list-style-type: none"> • Check that the welding and return cables are correctly connected. • Check that the correct current value is set. • Check that the correct wire or electrode is used. • Check the mains power supply fuses. • Check the gas pressure in the equipment connected to the power source.
"Err" on display in open circuit mode	<ul style="list-style-type: none"> • Check the mains power supply fuses. • Check that the voltage on the voltage selection label, on the rear of the power source, is equal to the nominal mains voltage. • Restart the power source with the main switch.

9 ORDERING SPARE PARTS

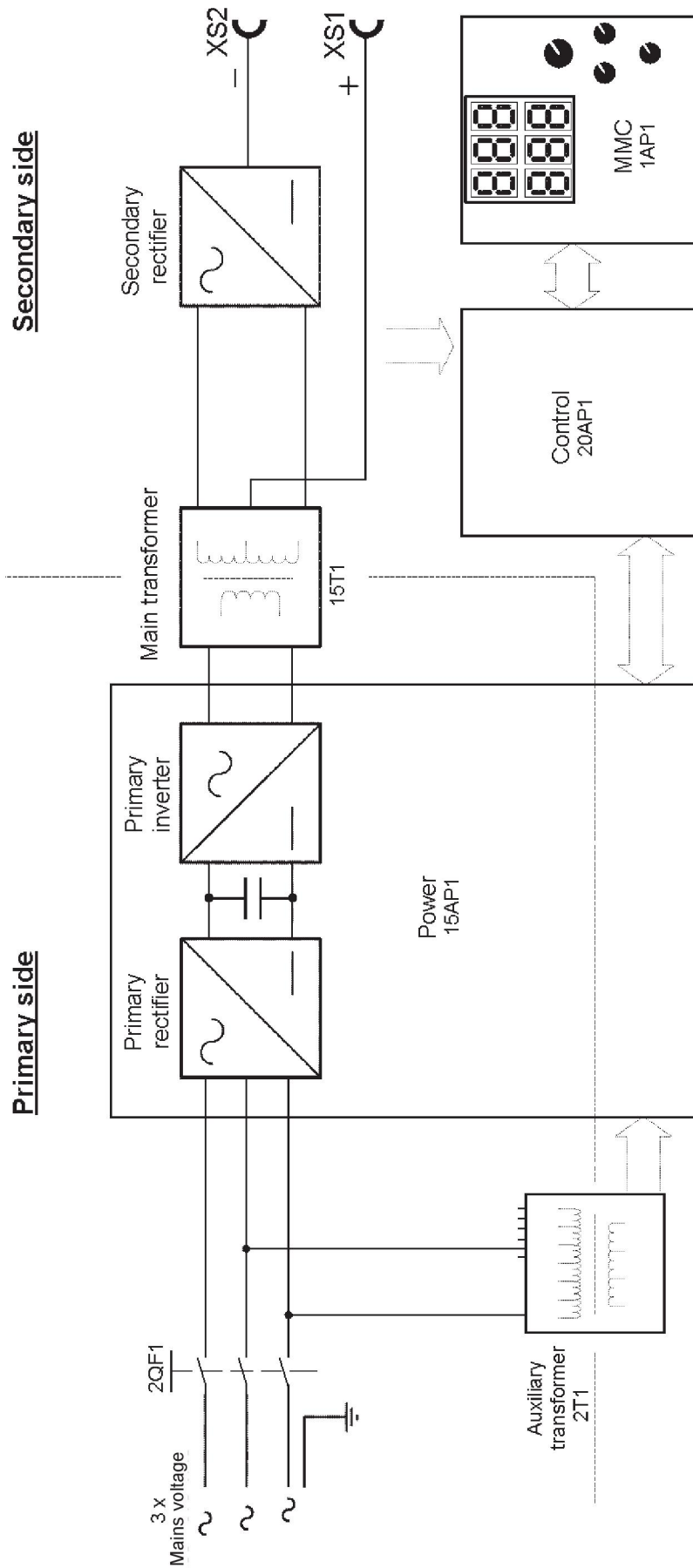
*Repair and electrical work should be performed by an authorized ESAB service technician.
Use only ESAB original spare and wear parts.*

The Warrior 500i CC/CV is designed and tested in accordance with international standards IEC 60974-1, Canadian standards CAN/CSA-E60974-1:11 and US standards ANSI/IEC 60974-1:2008.

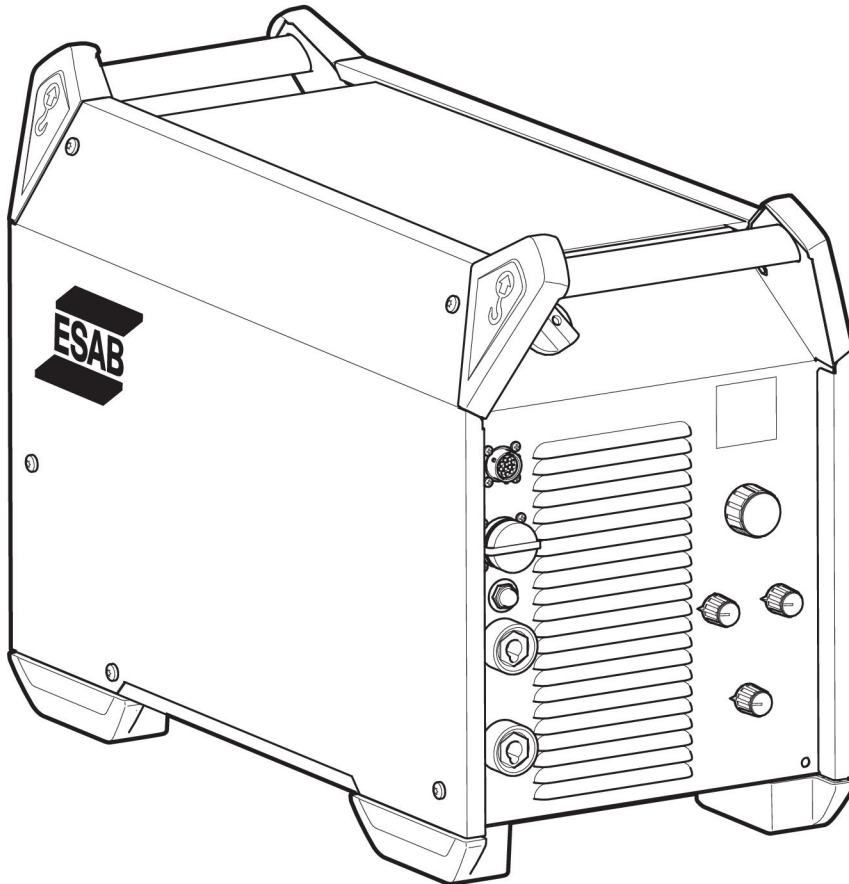
On completion of service or repair work, it is the responsibility of the person(s) performing the work to ensure that the product still complies with the requirements of the above standards.

When ordering spare parts, order by part number and part name, as documented in the spare parts list. Always provide the series or serial number on the unit in which the parts will be used. The serial number is stamped on the rating plate.

DIAGRAM



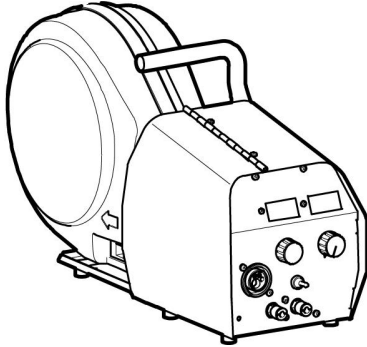
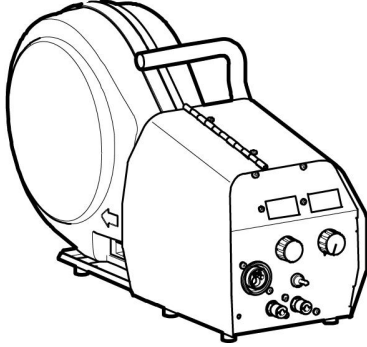

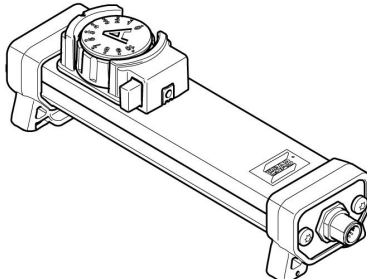

ORDER NUMBERS

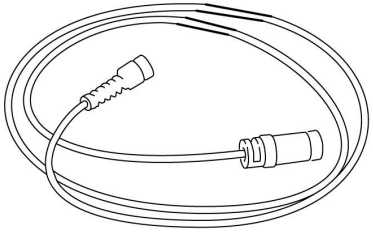
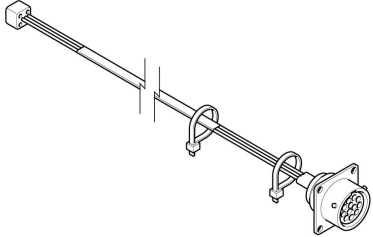
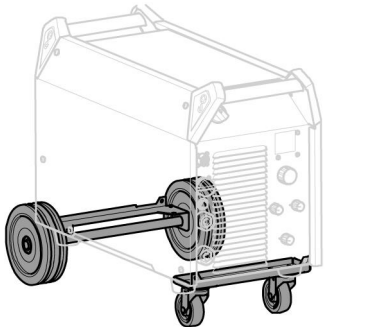
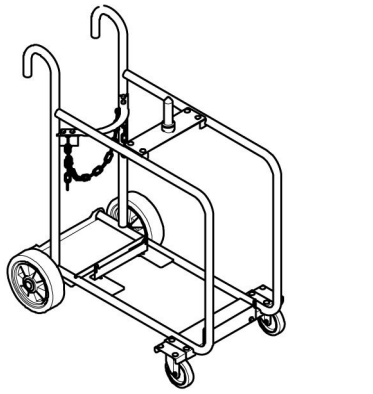
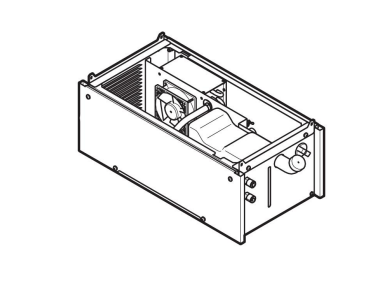
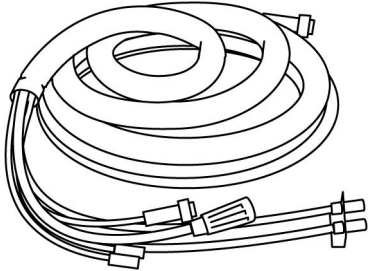


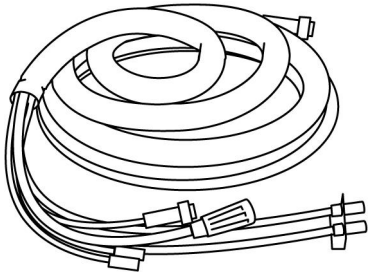
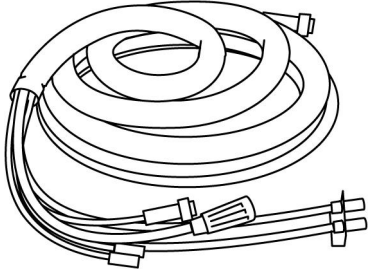
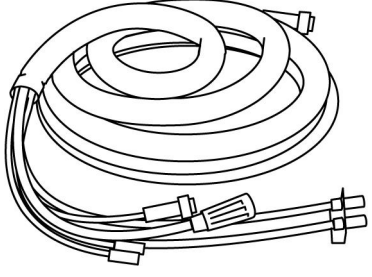
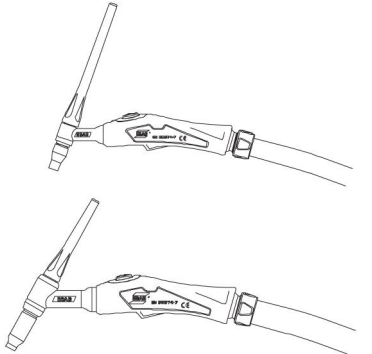

Ordering number	Denomination	Type	Notes
0465 350 881	Welding power source	Warrior 500i CC/CV	
0459 839 084	Spare parts list		
0740 800 221	Service manual		

Technical documentation is available on the Internet at www.esab.com

ACCESSORIES

0465 250 880	Warrior™ Feed 304	
0465 250 881	Warrior™ Feed 304w, with water cooling	
0558 005 728	MobileFeed 300 AVS	
0459 491 896	Remote control unit AT1 SMAW and GTAW current	
0459 491 897	Remote control unit AT1 CF SMAW and GTAW: course and fine setting of current	

Remote control cable 12 pole - 8 pole		
0459 552 880	5 m	
0459 552 881	10 m	
0459 552 882	15 m	
0459 552 883	25 m	
0465 424 880	Remote outlet kit	
0465 416 880	Wheel kit	
0465 510 880	Trolley	
0465 427 880	Cooling unit	
Connection set, 70 mm², 19 poles		
0459 836 886	2 m	
0459 836 881	5 m	
0459 836 882	10 m	
0459 836 883	15 m	
0459 836 884	25 m	
0459 836 885	35 m	

Connection set water, 70 mm², 19 poles		
0459 836 896	2 m	
0459 836 891	5 m	
0459 836 892	10 m	
0459 836 893	15 m	
0459 836 894	25 m	
0459 836 895	35 m	
Connection set, 95 mm², 19 poles		
0459 836 986	2 m	
0459 836 981	5 m	
0459 836 982	10 m	
0459 836 983	15 m	
0459 836 984	25 m	
0459 836 985	35 m	
Connection set water, 95 mm², 19 poles		
0459 836 996	2 m	
0459 836 991	5 m	
0459 836 992	10 m	
0459 836 993	15 m	
0459 836 994	25 m	
0459 836 995	35 m	
GTAW torches		
0700 300 539	TXH™ 151 V, OKC 50, 4 m	
0700 300 545	TXH™ 151 V, OKC 50, 8 m	
0700 300 553	TXH™ 201 V, OKC 50, 4 m	
0700 300 556	TXH™ 201 V, OKC 50, 8 m	
Arc air torches		
0468 253 880	Flair 600 incl monocable 2.5 m	
0468 253 016	Torch only	
0468 253 015	Monocable only	
0468 253 881	Flair 1600 incl monocable 2.5 m	
0468 253 036	Torch only	
0468 253 035	Monocable only	

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