

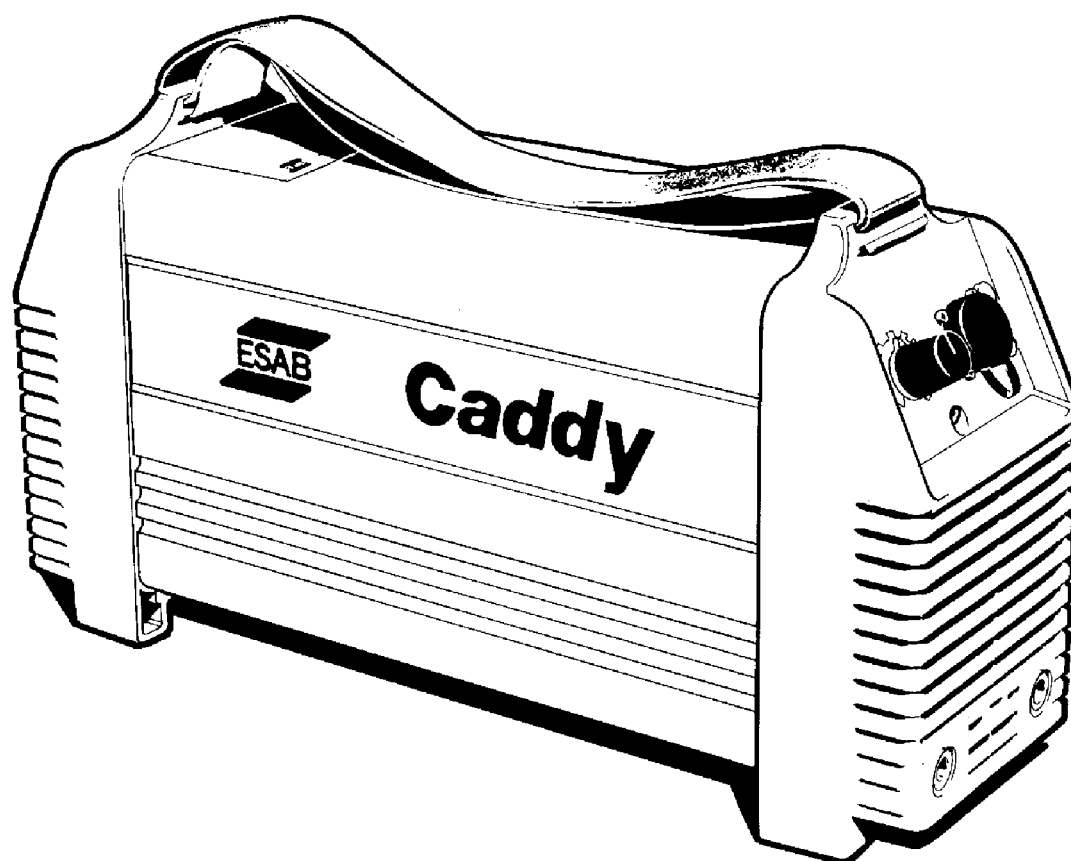
GB



Caddy 140

Caddy 200

LHN 140, LHN 200



cmha2p00

Instruction manual

0468 964 101 GB 041101

Valid for serial no. 628-xxx-xxxx, 011-xxx-xxxx,
220-xxx-xxxx

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1 DIRECTIVE

DECLARATION OF CONFORMITY

Esab Welding Equipment AB, S-695 81 Laxå, Sweden, gives its unreserved guarantee that welding power source Caddy 140/200 from serial number 628 complies with standard EN 60974-1, in accordance with the requirements of directive (73/23/EEC) and addendum (93/68/EEC) and with standard EN 50199 in accordance with the requirements of directive (89/336/EEC) and addendum (93/68/EEC).

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2 SAFETY



WARNING



ARC WELDING AND CUTTING CAN BE INJURIOUS TO YOURSELF AND OTHERS. TAKE PRECAUTIONS WHEN WELDING. ASK FOR YOUR EMPLOYER'S SAFETY PRACTICES WHICH SHOULD BE BASED ON MANUFACTURERS' HAZARD DATA.

ELECTRIC SHOCK - Can kill

- Install and earth the welding 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. Make sure therefore that there are no inflammable materials nearby.

NOISE - Excessive noise can damage hearing

- 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!

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



WARNING!

Do not use the power source for thawing frozen pipes.

3 INTRODUCTION

The Caddy 140 and Caddy 200 are two transistor controlled rectifiers designed for welding with coated electrodes and for TIG welding (touch start).

The advanced electronics provide rapid control response, low power demand and excellent welding characteristics. Inverter technology contributes to low weight and compact dimensions of the units. The rounded slimline shape of the unit makes it comfortable to carry. The strap can be folded to serve as a carrying handle, or fully extended to serve as a shoulder strap.

4 TECHNICAL DESCRIPTION

Caddy is equipped with a remote control socket which activates automatically when a remote control device is connected. NOTE! The contact pins L and M must be strapped in the remote device's connection cable for automatic activation to function. The inverter is supplied with a 3 meter long mains cable.

Caddy is delivered with 5 meter long welding and return cables. These are attached to cable connectors allowing quick change of polarity.

The manufacturer's serial number is stamped on the rating plate.

ESAB's accessories for the product can be found on page 11.

4.1 Technical data

	Caddy 140	Caddy 200
Performance: at 35% duty cycle at 60% at 100%	140A/26 V 110A/24 V 80A/23 V	200A/28 V 150A/26 V 115A/25 V
Setting range	continuously variable 3-140A	continuously variable 5-200A
Open circuit voltage	50-80 V	50-80 V
Mains supply: voltage primary current fuse mains cable, area	230 V 22A 16A* 3x1,5 mm ²	400 V 10A 16A 4x1,5 mm ²
Enclosure class	IP 23	IP 23
Application class	S	S
Weight	approx. 11 kg	approx. 11 kg

**When welding below 100A a 10A slow fuse is adequate.*

Duty cycle

The duty cycle refers to the time as a percentage of a ten-minute period that you can weld at a certain load without overloading.

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 designed 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.

Welding power source complies with IEC 974-1
Power cable rating complies with Swedish regulations.

5 INSTALLATION



WARNING!

This product is intended for industrial use. In a domestic environment this product may cause radio interference. It is the user's responsibility to take adequate precautions.

Caddy 140 is intended for 230 V, single phase supplies.
The 230 V can be used with 230-240 V, 50-60 Hz supplies.
To get maximum performance from the Caddy 140 it must be fitted with a 16A slow fuse. A 10A slow fuse is adequate for welding at currents up to 100A.

Caddy 200 is intended for 400V, 3 phase supplies. It can be used with 50 Hz or 60 Hz supplies.

To get maximum performance from the Caddy 200 a 10A fuse is adequate. (400 V sockets normally have 16A fuses).

The Caddy 140 and 200 both have mains voltage compensation, which means that $\pm 10\%$ fluctuation in the supply voltage produces only $\pm 0.2\%$ variation in the welding voltage.

6 OPERATION

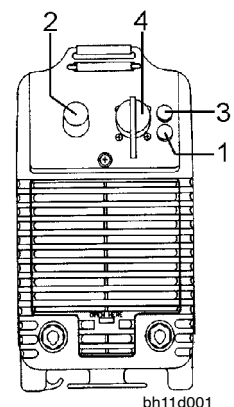
General safety regulations for the handling of the equipment can be found on page 3. Read through before you start using the equipment!

The power switch is at the rear of the Caddy. The white lamp on the front will glow when the power is on.

1. Yellow lamp
2. Welding current control 3-140A
3. White lamp
4. Remote control socket

The current is adjusted using the knob on the front.

To save you worrying about overloading the Caddy it has a thermal cut-out that will trip before the temperature becomes too high. You can tell when the rectifier has been overloaded because the yellow light comes on and it will no longer be possible to weld.



6.1 Welding with coated electrodes

The Caddy supplies DC current, which allows you to weld most types of alloyed and unalloyed steels, stainless steels and cast iron.

With the Caddy 140 you can use the majority of coated electrodes from \varnothing 1.6 to \varnothing 3.25, while the Caddy 200 will take electrodes up to \varnothing 4.0.

6.2 TIG welding

TIG welding is particularly useful when high quality standards are required and when welding thin sheet. Caddy also has very good TIG welding characteristics.

The best method to use is the touch start, where you gently stroke the tungsten electrode against the workpiece to establish the arc. Before using the Caddy for TIG welding it must be equipped with a TIG torch and gas valve, a cylinder of argon, an argon regulator, tungsten electrodes and, if necessary, suitable filter metal.

7 MAINTENANCE

Regular maintenance is important for safe, reliable operation.

Note!

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

Caddy requires a minimum of maintenance. Normally it is sufficient to blow the unit clean with dry compressed air once a year, and clean the filter in the front regularly. If the unit is used in a dirty or dusty environment it should be cleaned more often. The filter is released by inserting, e.g. a screwdriver, in the grille's slots and prising it gently upwards.

8 ORDERING OF SPARE PARTS

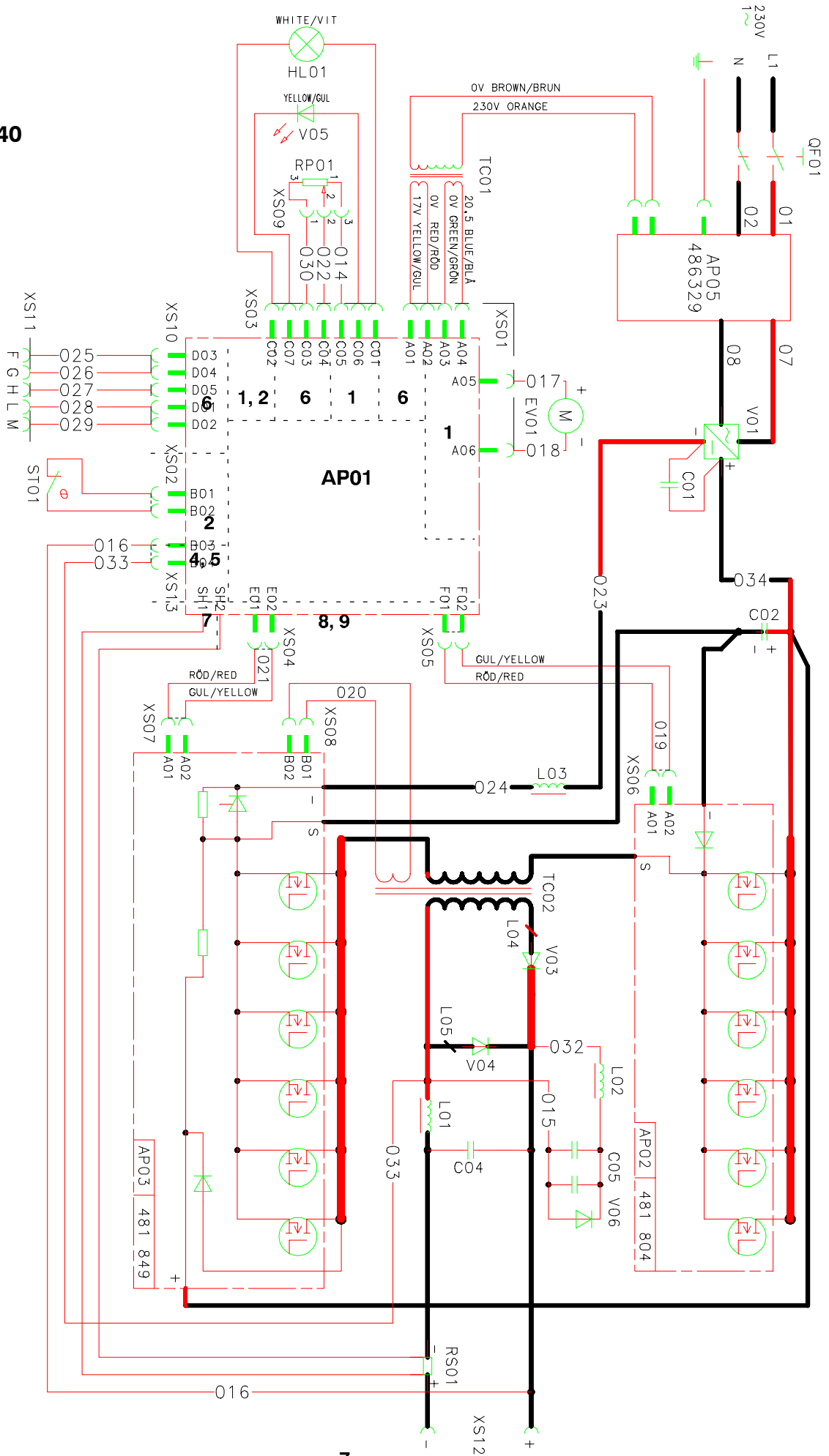
Repair and electrical work should be performed by an authorized ESAB serviceman. Use only ESAB original spare and wear parts.

Caddy 140, Caddy 200 is designed and tested in accordance with the international and European standards IEC/EN 60974-1 and EN 50199. It is the obligation of the service unit which has carried out the service or repair work to make sure that the product still conforms to the said standard.

Spare parts may be ordered through your nearest ESAB dealer, see the last page of this publication.

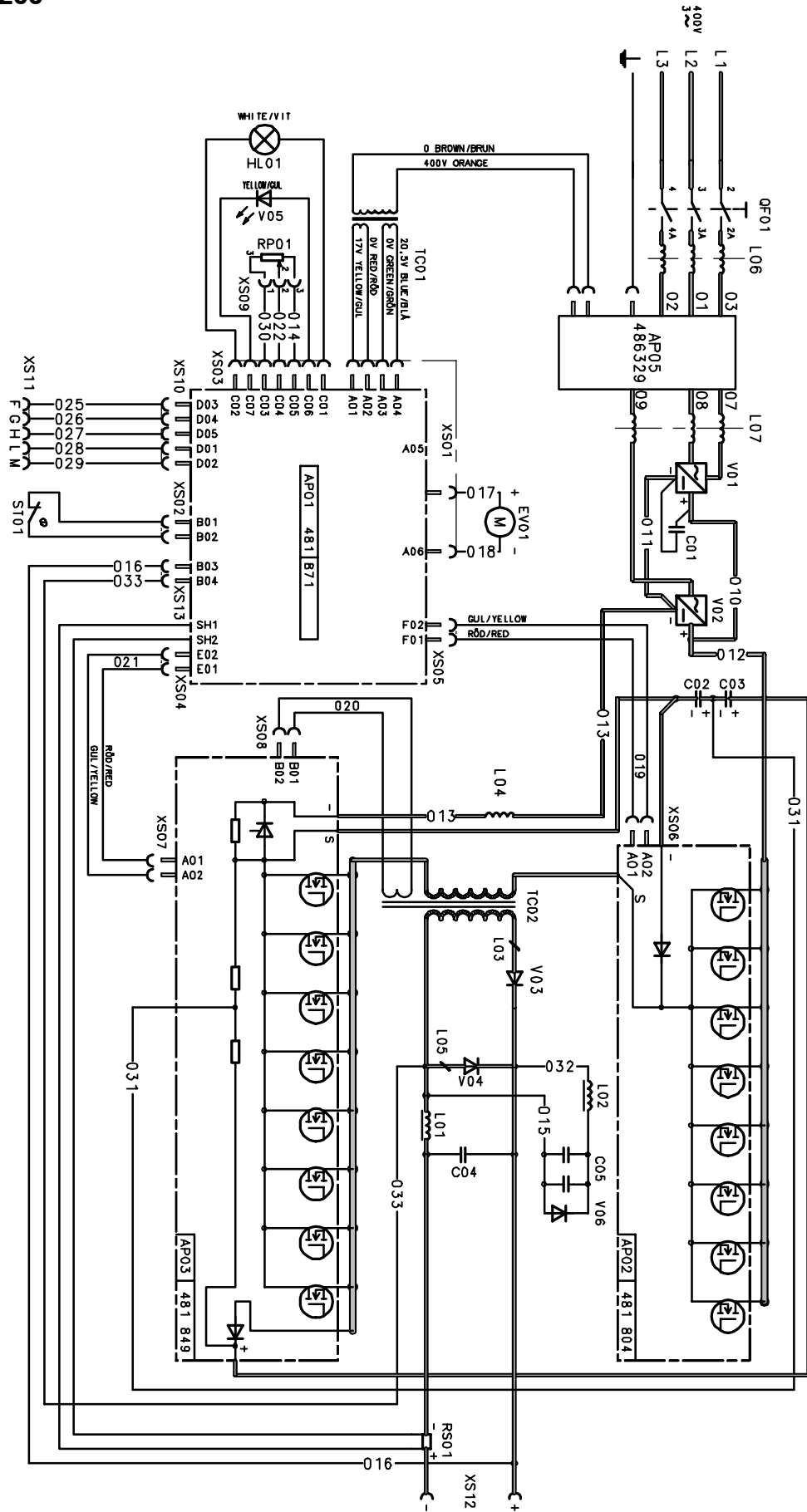
Diagram

Caddy 140



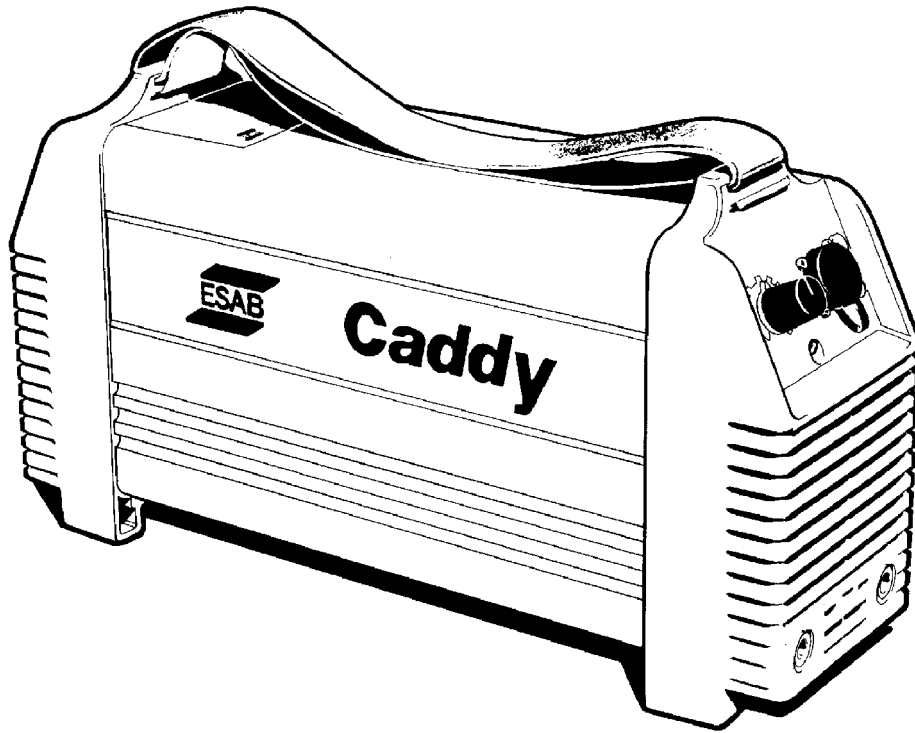
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Caddy 200



Caddy 140, Caddy 200

Ordering number



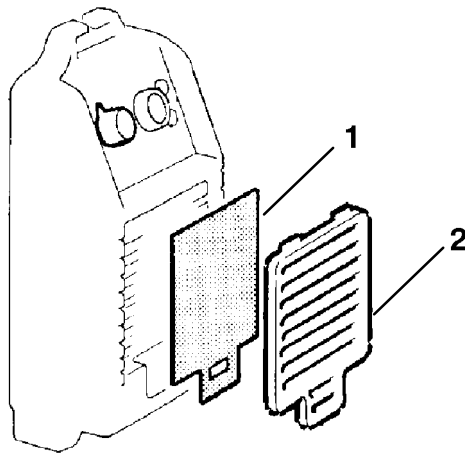
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Ordering no.	Denomination	Type
0468 020 800	Welding power source	Caddy 140
0468 020 881	Welding power source	Caddy 200
0468 964 990	Spare parts list	Caddy 140, Caddy 200

Caddy 140, Caddy 200

Spare parts list

Item	Qty	Ordering no.	Denomination
1	1	0468 462 001	Filter
2	1	0467 796 001	Grill



Accessories

	<p>Remote control MMA 1 (10 m cable) 0349 501 024 MMA and TIG: current</p>
	<p>Remote control unit AT1 0459 491 896 MMA and TIG: current</p>
	<p>Remote control unit AT1 CF 0459 491 897 MMA and TIG: rough and fine setting of current.</p>
	<p>Remote cable 12 pole - 8 pole</p> <p>5 m 0459 552 880 10 m 0459 552 881 15 m 0459 552 882 25 m 0459 552 883</p>

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