Buddy™

Arc 180
Arc 200

Instruction manual
DECLARATION OF CONFORMITY

According to

The RoHS Directive 2011/65/EC, entering onto force 2 January 2013

Type of equipment
Welding power source

Type designation etc.
Buddy™ Arc 180, Stock code 0700300680, from serial number 31312108277
Buddy™ Arc 200, Stock code 0700300887, from serial number 31312108187

Brand name or trade mark
ESAB

Manufacturer or his authorised representative established within the EEA
Name, address, telephone No:

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The following harmonised standard in force within the EEA has been used in the design:
EN 60974-1, Arc Welding Equipment – Part 1: Welding Power Sources
EN 60974-10, Arc Welding Equipment – Part 10: Electromagnetic Compatibility (EMC) requirements

Additional Information: Restrictive use, Class A equipment, intended for use in locations other than residential.

By signing this document, the undersigned declares as manufacturer, or the manufacturer's authorised representative established within the EEA, that the equipment in question complies with the safety requirements stated above.

Date 2014-01-17
Gothenburg

Signature

Stephen Argo
Clarification

Position
Global Director
Equipment
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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 can result in injury to the operator and damage to the equipment.

1. Anyone who uses the equipment must be familiar with:
   - its operation
   - location of emergency stops
   - its function
   - relevant safety precautions
   - welding and cutting or other applicable operation of the equipment

2. The operator must ensure that:
   - no unauthorised person is stationed 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!**
Do not use the power source for thawing frozen pipes.
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. 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!

CAUTION!
Read and understand the instruction manual before installing or operating.

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 those locations, due to conducted as well as radiated disturbances.

CAUTION!
This product is solely intended for arc welding.
ESAB can provide you with all necessary welding protection and accessories.

DISMANTLING AND SCRAPPING

NOTE!
Dispose of electronic equipment at the recycling facility!

In observance of European Directive 2012/19/EC on Waste Electrical and Electronic Equipment and its implementation in accordance with national law, electrical and/or electronic equipment that has reached the end of its life must be disposed of at a recycling facility.

As the person responsible for the equipment, it is your responsibility to obtain information on approved collection stations.

For further information contact the nearest ESAB dealer.

Welding equipment primarily consists of steel, plastic and non-ferrous metals, and must be handled according to local environmental regulations.

Coolant must also be handled according to local environmental regulations.
2 INTRODUCTION

Arc 180 and Arc 200 are welding power sources intended for use with coated electrodes (MMA welding) and TIG welding (Live Arc).

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

2.1 Equipment

The power source is supplied with:

- 3 meter welding cable with electrode holder
- 3 meter return cable with return clamp
- Instruction manual
### TECHNICAL DATA

<table>
<thead>
<tr>
<th></th>
<th>Arc 180</th>
<th>Arc 200</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mains voltage</strong></td>
<td>230 V 1~ ± 10 %, 50/60 Hz</td>
<td>230 V 1~ ± 10 %, 50/60 Hz</td>
</tr>
<tr>
<td><strong>Primary current I\text{max}</strong></td>
<td>36 A</td>
<td>40.7 A</td>
</tr>
<tr>
<td><strong>Setting range MMA</strong></td>
<td>5 A / 20.0 V - 180 A / 27.2 V</td>
<td>5 A / 20.2 V - 210 A / 28.4 V</td>
</tr>
<tr>
<td><strong>Setting range TIG</strong></td>
<td>5 A / 10 V - 180 A / 17.2 V</td>
<td>5 A / 10.2 V - 210 A / 18.4 V</td>
</tr>
<tr>
<td><strong>Permissible load at MMA</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30 % duty cycle</td>
<td>180 A / 27.2 V</td>
<td>200 A / 28.0 V</td>
</tr>
<tr>
<td>35 % duty cycle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>60 % duty cycle</td>
<td>125 A / 25.2 V</td>
<td>135 A / 25.4 V</td>
</tr>
<tr>
<td>100 % duty cycle</td>
<td>100 A / 24.0 V</td>
<td>120 A / 24.8 V</td>
</tr>
<tr>
<td><strong>Permissible load at TIG</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>35 % duty cycle</td>
<td>180 A / 17.2 V</td>
<td>200 A / 18.0 V</td>
</tr>
<tr>
<td>60 % duty cycle</td>
<td>130 A / 15.2 V</td>
<td>135 A / 15.4 V</td>
</tr>
<tr>
<td>100 % duty cycle</td>
<td>100 A / 14.0 V</td>
<td>120 A / 14.8 V</td>
</tr>
<tr>
<td><strong>Power factor</strong></td>
<td>0.72</td>
<td>0.71</td>
</tr>
<tr>
<td><strong>Efficiency</strong></td>
<td>&gt;80 %</td>
<td>&gt;80 %</td>
</tr>
<tr>
<td><strong>Open-circuit voltage</strong> U\text{0 max}</td>
<td>59.8 V</td>
<td>66.3 V</td>
</tr>
<tr>
<td><strong>Operating temperature</strong></td>
<td>-10 to +40°C</td>
<td>-10 to +40°C</td>
</tr>
<tr>
<td><strong>Transportation temperature</strong></td>
<td>-20 to +55°C</td>
<td>-20 to +55°C</td>
</tr>
<tr>
<td><strong>Sound pressure at no-load</strong></td>
<td>&lt;70 db (A)</td>
<td>&lt;70 db (A)</td>
</tr>
<tr>
<td><strong>Dimensions l × w × h</strong></td>
<td>310 × 140 × 230 mm</td>
<td>360 × 140 × 230 mm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>6.6 kg</td>
<td>7.5 kg</td>
</tr>
<tr>
<td><strong>Enclosure class</strong></td>
<td>IP 23S</td>
<td>IP 23S</td>
</tr>
<tr>
<td><strong>Application class</strong></td>
<td>S</td>
<td>S</td>
</tr>
</tbody>
</table>

**Duty cycle**
The duty cycle refers to the time as a percentage of a ten-minute period that you can weld or cut at a certain load without overloading. The duty cycle is valid for 40°C / 104°F.

**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.
4 INSTALLATION

The installation must be carried out by a professional.

4.1 Location
Position the power source such that its cooling air inlets and outlets are not obstructed. Also position the power source so that the air inlet does not get clogged with unwanted material.

4.2 Mains power supply
Make sure that the welding power source is connected to the correct supply voltage and that it is protected by the correct fuse rating. The outlet shall have a protective earth connection.

A. Rating plate with supply connection data

4.2.1 Recommended fuse sizes and minimum cable area

<table>
<thead>
<tr>
<th></th>
<th>Arc 180</th>
<th>Arc 200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mains voltage</td>
<td>230V 1~ ± 10%, 50/60 Hz</td>
<td></td>
</tr>
<tr>
<td>Mains cable area mm²</td>
<td>3 G 2.5</td>
<td>3 G 2.5</td>
</tr>
<tr>
<td>Phase current $I_{1\text{eff}}$ (TIG)</td>
<td>12.5 A</td>
<td>16.6 A</td>
</tr>
<tr>
<td>Phase current $I_{1\text{eff}}$ (MMA)</td>
<td>16.0 A</td>
<td>24.1 A</td>
</tr>
</tbody>
</table>

NOTE!
Use the power source in accordance with the relevant national regulations.
5 OPERATION

General safety regulations for handling the equipment can be found in the "SAFETY" chapter of this manual. Read it through before you start using the equipment!

5.1 Connections

1. Control panel
2. Connection (-) for return cable, welding cable or TIG torch
3. Connection (+) for return cable or welding cable
4. Mains power supply switch 1/O
5. Connection for mains cable

5.2 Connection of welding and return cable

The power source has two outputs, a negative [-] terminal (2) and a positive [+] terminal (3), for connecting welding and return cables.

For MMA process the output to which the welding cable is connected depends on the type of electrode, please refer to electrode packaging for information relating to the correct electrode polarity.

For optional TIG process, connect the TIG torch power cable to the negative [-] terminal (2). Connect gas inlet nut to a regulated shielding gas supply.

Connect the return cable to the remaining welding terminal on the power source. Secure the return cable’s contact clamp to the work piece and ensure that there is good contact.
5.3 Symbols and Control panels

Arc 180

Arc 200

Power ON Indicating lamp, white, power supply ON
Overheating Indicating lamp, yellow, overheating
Scratch TIG
MMA welding

5.4 Overheating protection

The welding power source has a thermal overload trip which operates if the temperature becomes too high, interrupting the welding current and lighting a yellow indicating lamp on the front of the power source. The thermal overload trip resets automatically when the temperature has fallen.

NOTE!

If the utilization of the power source is too high it might get overheated. See permissible load in the TECHNICAL DATA chapter in this manual.

If the air inlet or outlet is blocked or get clogged with unwanted material the power source might get overheated. Make sure that the airflow through the power source is not blocked.

5.5 MMA welding

Move process selector switch to desired welding process.
NOTE!
Power source output is enabled.

Check welding cable polarity selection matches electrode requirements. Select desired welding current level.

5.5.1  Welding current setting

The Arc 180 power source has an adjustable welding current from 5 to 180 Amps. The Arc 200 has an adjustable value from 5 to 200 Amps.

5.5.2  Striking the arc

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

If, when striking the arc, the tip of the electrode is pressed against the metal, it immediately melts and sticks to the metal, rendering continued welding impossible. Therefore, the arc has to be struck in the same way that you would light a match. Quickly strike the electrode against the metal and then raise it to give an appropriate arc length (approx. 2 mm). If the arc is too long, it will crackle and split before finally going out completely. Once the arc has been struck, move the electrode from left to right. The electrode should be at an angle of 60° to the metal.

5.5.3  Manipulation of electrode

In MMA welding, there are three motions to be matched in the end of electrode: the electrode moving to the molten pool along axes [1]; a small oscillation maybe neccessary to achieve the desired width of the melt pool [2]; the electrode moving along welding way [3].

The operator can choose the manipulation of electrode based on welding joint sharp, welding position, electrode spec, welding current and operation skill, etc.

1. electrode moving 4. workpiece
2. the electrode oscilliation (right and left) 5. weld
3. the electrode move along weld 6. electrode
5.5.4 Anti-electrode pick-up
If, during the welding, the electrode would get in direct contact (touching) with the workpiece to form short circuit, the welding current will drop to a minimum to prolong the life of the electrode.

5.5.5 Joint forms in MMA

| Butt joint | Corner joint | Lap joint | T joint |

5.5.6 Electrode selection
The electrode diameter selection is based on the workpiece thickness, welding position, joint form, welding layer, etc. Please refer to the recommendations on the electrode package for further details.

- To ensure good quality weld, the electrode should always be dried or dry stored. This to avoid hydrogen inclusion, blowholes and cold cracks.
- In the welding process, the arc must not be too long; otherwise, it will cause unstable arc burning, large spatter, light penetration, undercut, blowhole, etc. If the arc is too short, it will cause electrode stick.

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

TIG welding is particularly useful where high quality is demanded and for welding thin plate. The power sources also have good characteristics for TIG welding.

In order to TIG weld, the power sources must be equipped with:

- a TIG torch with gas valve (see in the "ACCESSORIES" chapter of this manual)
- a welding gas cylinder (a suitable welding gas)
- a welding gas regulator (suitable gas regulator)
- tungsten electrode
- suitable auxiliary material, if necessary.

Move process selector switch to desired welding process.
Check welding cable and TIG torch polarity matches electrode requirements.
Select desired welding current level.

5.6.1 Welding current setting

The Arc 180 power source has an adjustable welding current from 5 to 180 Amps. The Arc 200 has an adjustable value from 5 to 200 Amps.

5.6.2 Striking an Arc “Live TIG-start”
With “Live TIG start” the arc strikes when the tungsten electrode is brought into contact with the workpiece and then lifted away from it.

5.6.3 Joint forms in TIG

- Butt joint
- Corner joint
- Lap joint
- T joint
6 MAINTENANCE

**NOTE!**
Regular maintenance is important for safe, reliable operation.

**CAUTION!**
Only those persons who have appropriate electrical knowledge (authorized personnel) may remove the 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.

### 6.1 Power source
Check regularly that the welding power source is not clogged with dirt.

How often and which cleaning methods apply depend on:

- welding process
- arc time
- placement
- surrounding environment

It is normally sufficient to blow the power source with dry compressed air (reduced pressure) once a year.

Clogged or blocked air inlets and outlets otherwise result in overheating.

### 6.2 Welding torch
Wear parts should be cleaned and replaced at regular intervals in order to achieve trouble-free welding.
## 7 FAULT-TRACING

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

<table>
<thead>
<tr>
<th>Type of fault</th>
<th>Corrective action</th>
</tr>
</thead>
<tbody>
<tr>
<td>No arc.</td>
<td>• Check that the mains power supply switch is turned on.</td>
</tr>
<tr>
<td></td>
<td>• Check that the mains input Voltage is not too low or too high. The yellow LED will illuminate if the input is below or above the recommended levels and the machine is at normal working temperature.</td>
</tr>
<tr>
<td></td>
<td>• Check that the welding current supply and return cables are correctly connected.</td>
</tr>
<tr>
<td></td>
<td>• Check that the correct current value is set.</td>
</tr>
<tr>
<td></td>
<td>• Check to see whether the MCB has tripped.</td>
</tr>
<tr>
<td>The welding current is interrupted during welding.</td>
<td>• Check whether the thermal cut-outs have tripped (indicated by the yellow lamp on the front panel).</td>
</tr>
<tr>
<td></td>
<td>• Check the mains power supply fuses.</td>
</tr>
<tr>
<td>The thermal cut-out trips frequently.</td>
<td>• Check to see whether the dust filter is clogged.</td>
</tr>
<tr>
<td></td>
<td>• Make sure that you are not exceeding the rated data for the power source (i.e. that the unit is not being overloaded). See permissible load in the TECHNICAL DATA chapter in this manual.</td>
</tr>
<tr>
<td></td>
<td>• Make sure that the positioning of the power source is such that its cooling air inlets and outlets are not obstructed.</td>
</tr>
<tr>
<td>Poor welding performance.</td>
<td>• Check that the welding current supply and return cables are correctly connected.</td>
</tr>
<tr>
<td></td>
<td>• Check that the correct current value is set.</td>
</tr>
<tr>
<td></td>
<td>• Check that the correct electrodes are being used.</td>
</tr>
<tr>
<td></td>
<td>• Check the gas flow. When in Live Tig Mode using optional ET 17V Tig Torch.</td>
</tr>
</tbody>
</table>
8 ORDERING SPARE PARTS

<table>
<thead>
<tr>
<th>CAUTION!</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repair and electrical work should be performed by an authorised service technician. Use only original spare and wear parts.</td>
</tr>
</tbody>
</table>

Arc 180, Arc 200 is designed and tested in accordance with the international and European standards EN 60974-1 and EN 60974-10. 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.
## ORDERING NUMBERS

### Ordering Numbers

<table>
<thead>
<tr>
<th>Ordering no.</th>
<th>Denomination</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>0700 300 885</td>
<td>Welding power source</td>
<td>Buddy™ Arc 180</td>
</tr>
<tr>
<td>0700 300 887</td>
<td>Welding power source</td>
<td>Buddy™ Arc 200</td>
</tr>
<tr>
<td>0459 839 066</td>
<td>Spare parts list</td>
<td>Buddy™ Arc 180 and Arc 200</td>
</tr>
</tbody>
</table>

Technical documentation is available on the Internet at: [www.esab.com](http://www.esab.com)
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0700 006 901</td>
<td>Return cable with clamp 200A, OKC 50, 3m</td>
</tr>
<tr>
<td>0700 006 885</td>
<td>Return cable with clamp 200A, OKC 50, 5m</td>
</tr>
<tr>
<td>0700 006 900</td>
<td>Welding cable 200A, OKC 50, 3m</td>
</tr>
<tr>
<td>0700 006 884</td>
<td>Welding cable 200A, OKC 50, 5m</td>
</tr>
<tr>
<td>0700 300 861</td>
<td>TIG 17 torch 4 m</td>
</tr>
</tbody>
</table>
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