



EN

Retrofit option

ON Safeguard S
ON Safeguard T.0003

Insulating protective cover

099-007879-EW501

Observe additional system documents!

18.06.2019

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General instructions

WARNING



Read the operating instructions!

The operating instructions provide an introduction to the safe use of the products.

- Read and observe the operating instructions for all system components, especially the safety instructions and warning notices!
- Observe the accident prevention regulations and any regional regulations!
- The operating instructions must be kept at the location where the machine is operated.
- Safety and warning labels on the machine indicate any possible risks. Keep these labels clean and legible at all times.
- The machine has been constructed to state-of-the-art standards in line with any applicable regulations and industrial standards. Only trained personnel may operate, service and repair the machine.
- Technical changes due to further development in machine technology may lead to a differing welding behaviour.

In the event of queries on installation, commissioning, operation or special conditions at the installation site, or on usage, please contact your sales partner or our customer service department on +49 2680 181-0.

A list of authorised sales partners can be found at www.ewm-group.com/en/specialist-dealers.

Liability relating to the operation of this equipment is restricted solely to the function of the equipment. No other form of liability, regardless of type, shall be accepted. This exclusion of liability shall be deemed accepted by the user on commissioning the equipment.

The manufacturer is unable to monitor whether or not these instructions or the conditions and methods are observed during installation, operation, usage and maintenance of the equipment.

An incorrectly performed installation can result in material damage and injure persons as a result. For this reason, we do not accept any responsibility or liability for losses, damages or costs arising from incorrect installation, improper operation or incorrect usage and maintenance or any actions connected to this in any way.

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The content of this document has been prepared and reviewed with all reasonable care. The information provided is subject to change; errors excepted.

1 For your safety**1.1 Safety instructions****⚠ WARNING**

Do not carry out any unauthorised repairs or modifications!

To avoid injury and equipment damage, the unit must only be repaired or modified by specialist, skilled persons!

The warranty becomes null and void in the event of unauthorised interference.

- Appoint only skilled persons for repair work (trained service personnel)!



Risk of accidents due to non-compliance with the safety instructions!

Non-compliance with the safety instructions can be fatal!

- Carefully read the safety instructions in this manual!
- Observe the accident prevention regulations and any regional regulations!
- Inform persons in the working area that they must comply with the regulations!

These supplementary sheets must be used in conjunction with the appropriate standard operating instructions for the described product! These supplementary sheets expand or replace one or more chapters of the same name(s) in the standard description.

Read and observe the operating instructions for all system components, especially the safety instructions!

2 Intended use**2.1 General****⚠ WARNING**

Hazards due to improper usage!

The machine has been constructed to the state of the art and any regulations and standards applicable for use in industry and trade. It may only be used for the welding procedures indicated at the rating plate. Hazards may arise for persons, animals and material objects if the equipment is not used correctly. No liability is accepted for any damages arising from improper usage!

- The equipment must only be used in line with its designated purpose and by trained or expert personnel!
- Do not improperly modify or convert the equipment!

2.1.1 ON Safeguard S

These instructions apply only for the conversion of the following machines:

- Pico 162
- Pico 162 VRD
- Pico 162 MV

2.1.2 ON Safeguard T.0003

These instructions apply only for the conversion of the following machines:

- Pico 180 puls
- Pico 180 puls VRD (AUS)
- Pico 180 puls VRD (RU)
- Pico 220 cel puls
- Picotig 180 TG
- Picotig 200 puls TG

3 Conversion

3.1 Parts list

3.1.1 ON Safeguard S

Before conversion, check that the retrofit kit is complete (see parts list).

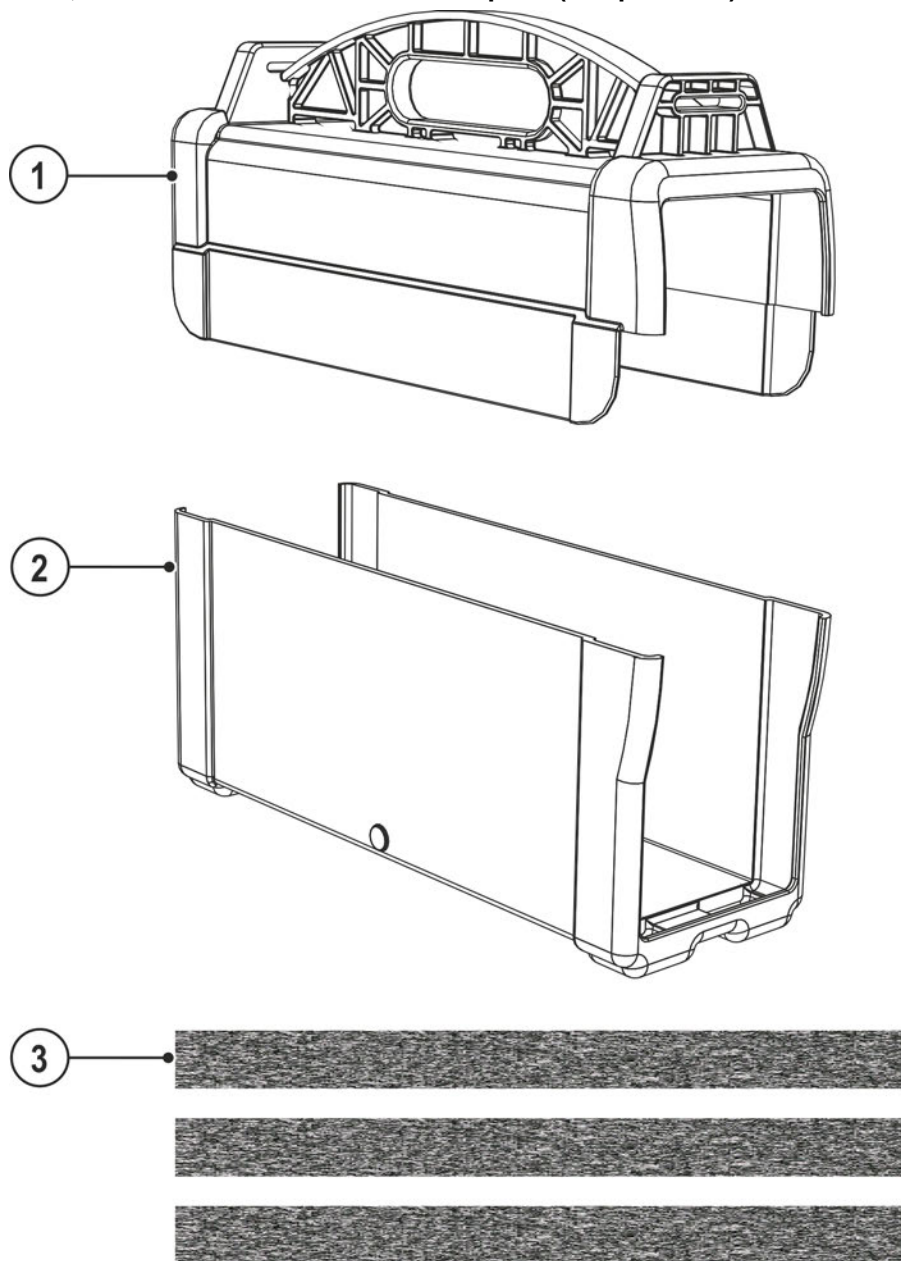


Figure 3-1

Item	Quantity	Description	Item number
1	1	Upper shell	094-017025-00003
2	1	Lower Shell	094-017026-00003
3	3	Hook-and-loop fastener	094-017257-00001

3.1.2 ON Safeguard T.0003

Before conversion, check that the retrofit kit is complete (see parts list).

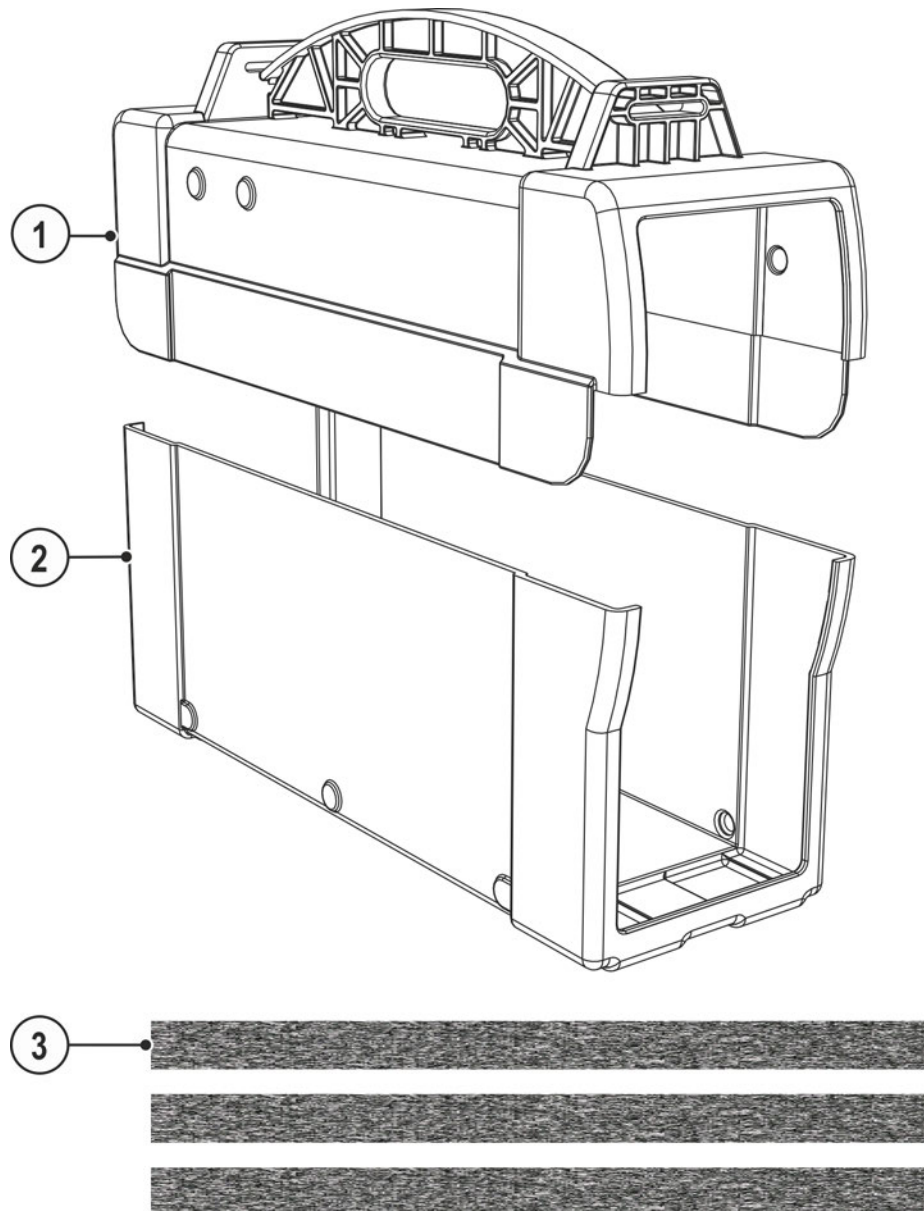


Figure 3-2

Item	Quantity	Description	Item number
1	1	Upper shell	094-018095-00001
2	1	Lower Shell	094-018096-00001
3	3	Hook-and-loop fastener	094-017257-00002

3.2 Preparations

- Dismantle the transportation strap (if existing) from the machine.
- Dismantle dirt filter (if existing) at the back side of the machine

3.3 Assembly

The illustration serves as an example only.

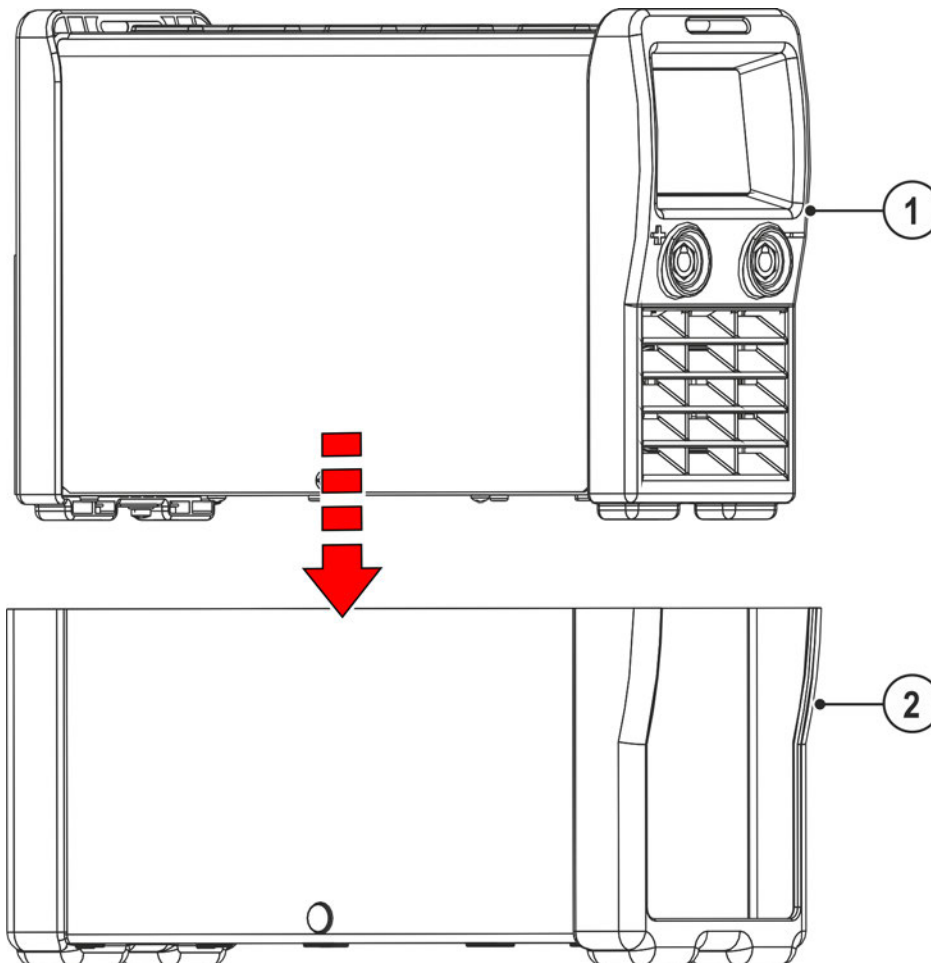


Figure 3-3

Item	Symbol	Description
1		Welding machine
2		Lower Shell

- Position welding machine in the lower shell

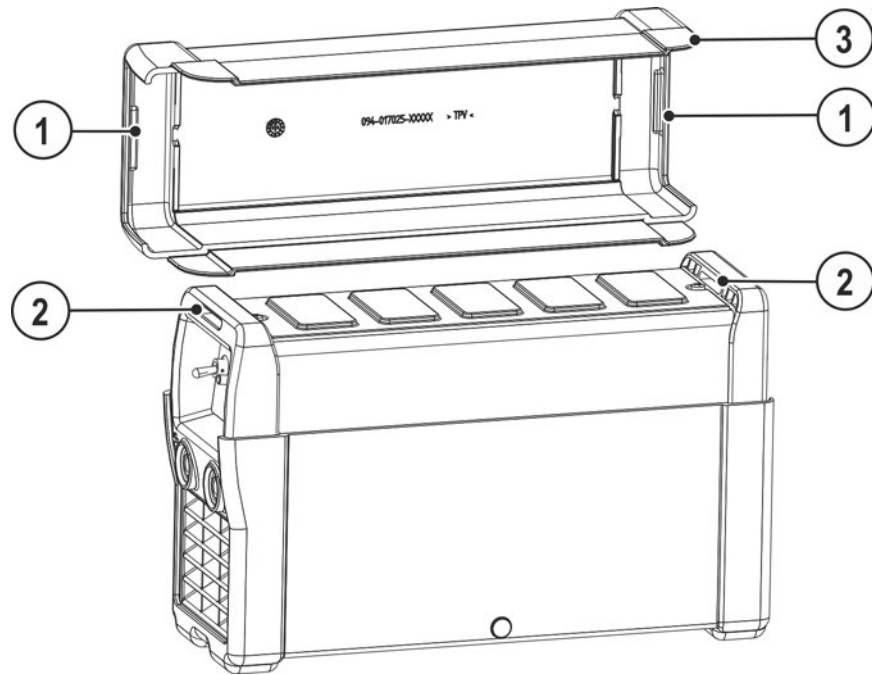


Figure 3-4

Item	Symbol	Description
1		Spring
2		Slot
3		Upper shell



Make sure that the springs of the upper shell engage with the slot of the power source during assembly of the upper shell.

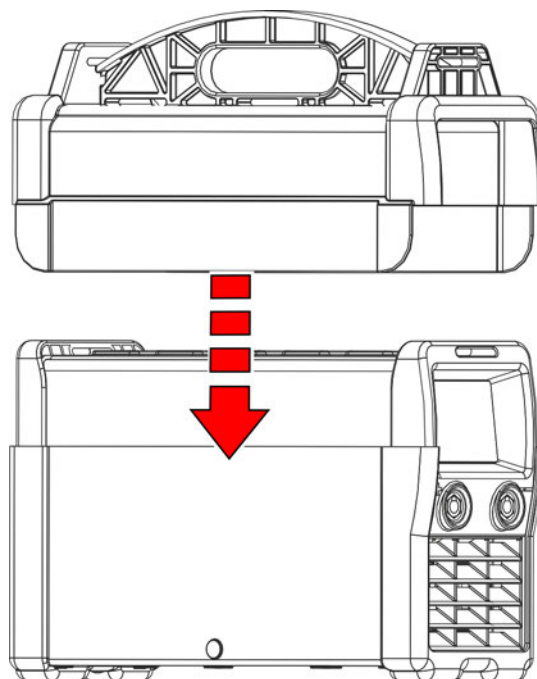


Figure 3-5

- Assemble the upper shell on the power source.

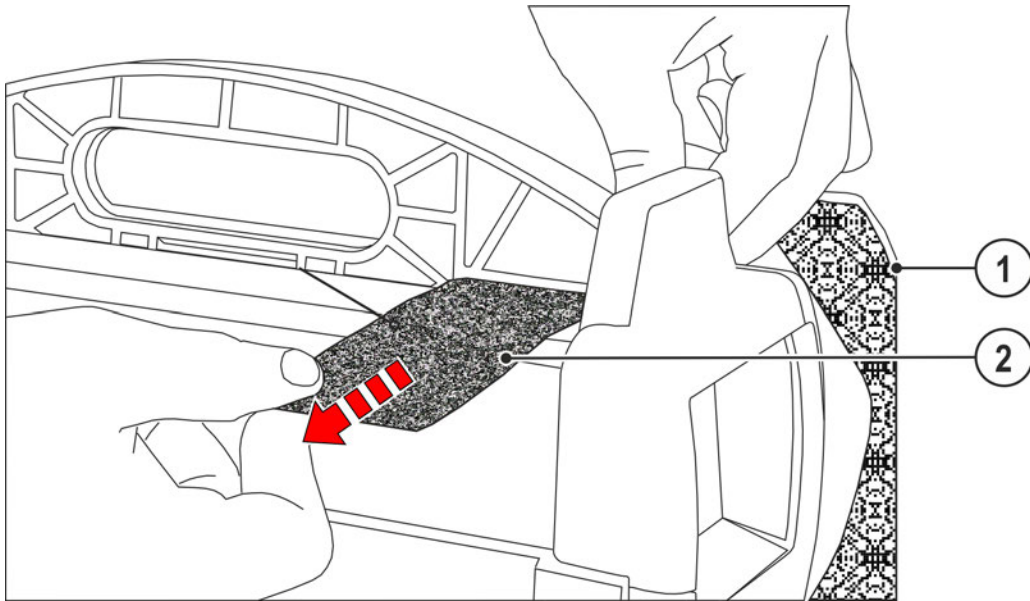


Figure 3-6

Item	Symbol	Description
1		Barbed hook side of the hook-and-loop fastener
2		Strap side of the hook-and-loop fastener

ON Safeguard S

- Thread the hook-and-loop fastener and pull it out to 260mm from the handle of the upper shell

ON Safeguard T.0003

- Thread the hook-and-loop fastener and pull it out to 300mm from the handle of the upper shell

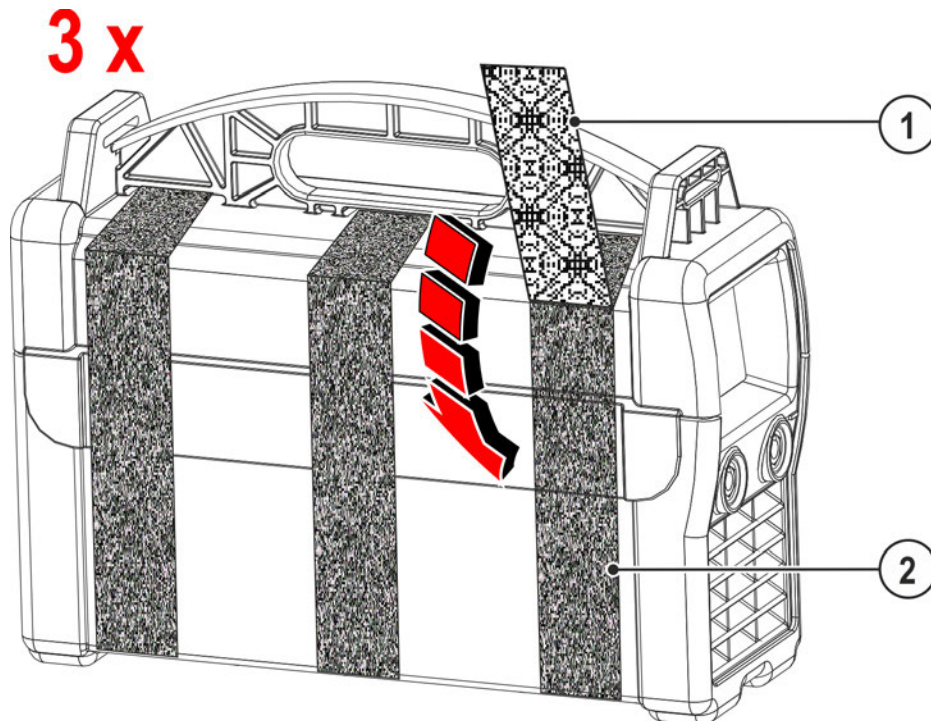


Figure 3-7

Item	Symbol	Description
1		Barbed hook side of the hook-and-loop fastener
2		Strap side of the hook-and-loop fastener

- Close the hook-and-loop fastener.

3.3.1 Adjusting the length of the carrying strap

To demonstrate adjustment, lengthening the strap is shown in the figure. To shorten, the strap's loops must be inched in the opposite direction.

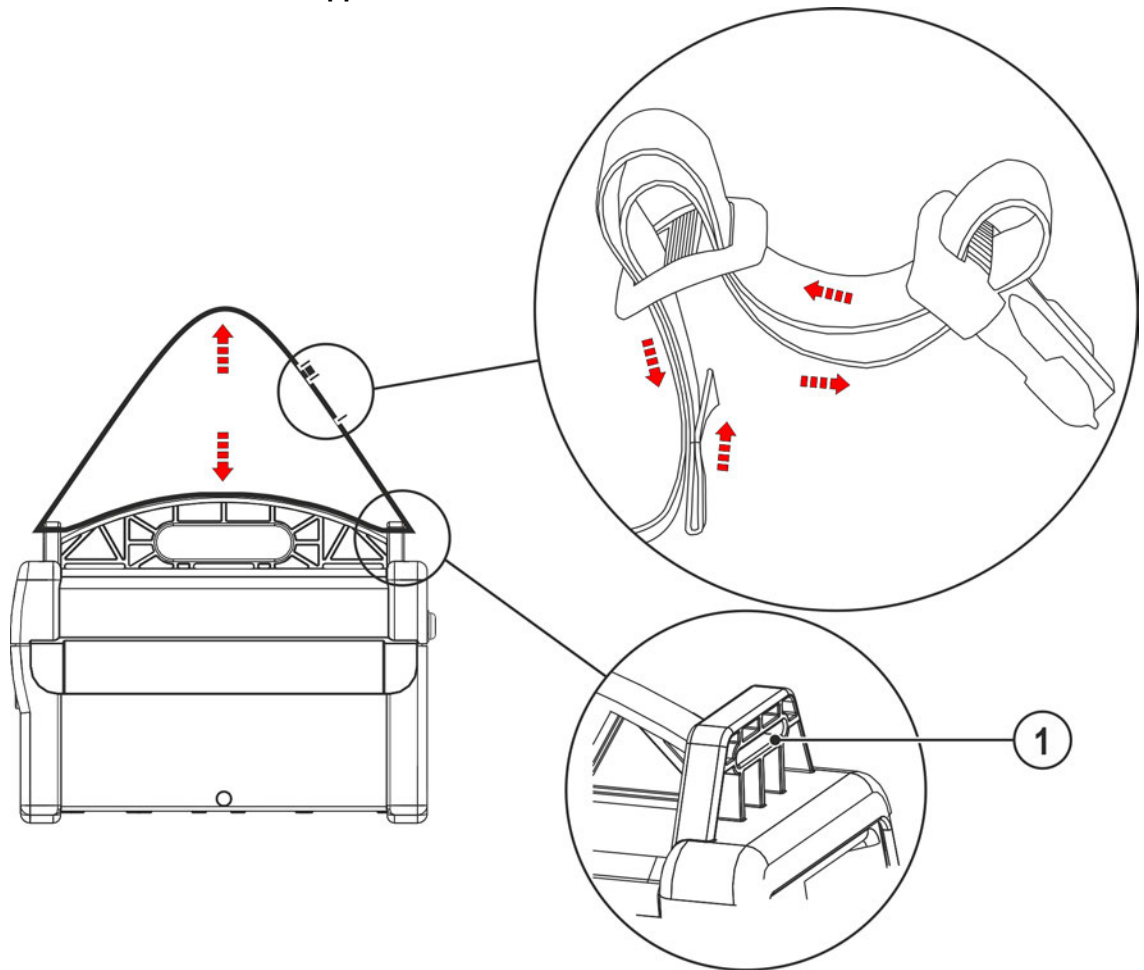


Figure 3-8

Item	Symbol	Description
1		Pass-through opening for carrying strap

- Insert carrying strap as shown.

3.4 Final inspection

3.4.1 General

WARNING



Protective earth PE!

To protect persons and animals against dangerous live voltages and electric shocks in the event of a fault, the casing panels on the unit are connected to a green/yellow protective earth.

- After conversion, re-connect the protective earth to the casing panels!



Danger due to failure to carry out the final inspection!

After installation or conversion, all mechanical and electrical connections must be checked for correct installation to avoid any potential injuries.

- No leads or tubes should be squashed or laid on sharp edges.
- Check all mechanical connections to ensure that they are fitted correctly!
- Carry out the final inspection!
- Carry out the functional test!



Dangers resulting from failure to perform test after conversion!

Before reconnection, “Inspection and Testing during Operation” according to IEC/BS EN 60974-4 “Arc welding systems – Inspection and Testing during Operation” has to be performed!

- Perform test to IEC / DIN EN 60974-4!

Keep the conversion instructions with the machine documentation!

When ordering spare parts, ensure that the item number and serial number of the machine are quoted!

4 Accessories

The illustration serves as an example only.

These accessory components can be retrofitted as an option .

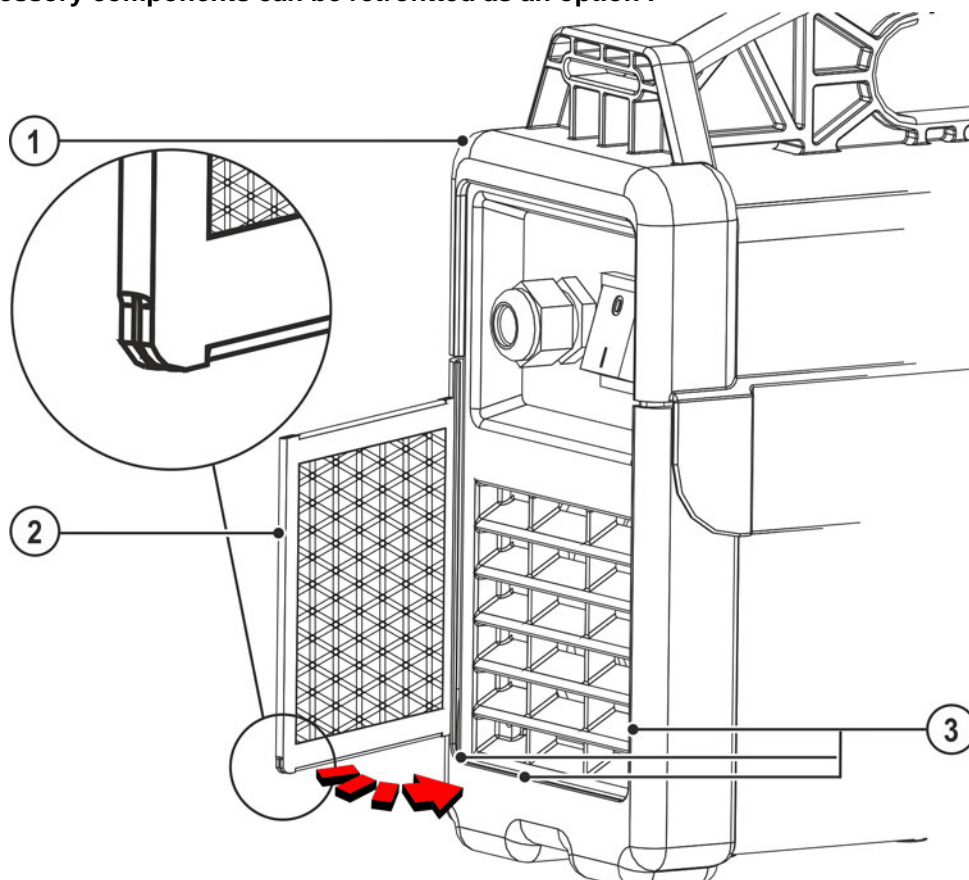


Figure 4-1

Item	Symbol	Description
1		Rear view, Welding machine
2		Filter cartridge
3		Rubber sealing, Safeguard

- Insert filter cartridge into machine as shown

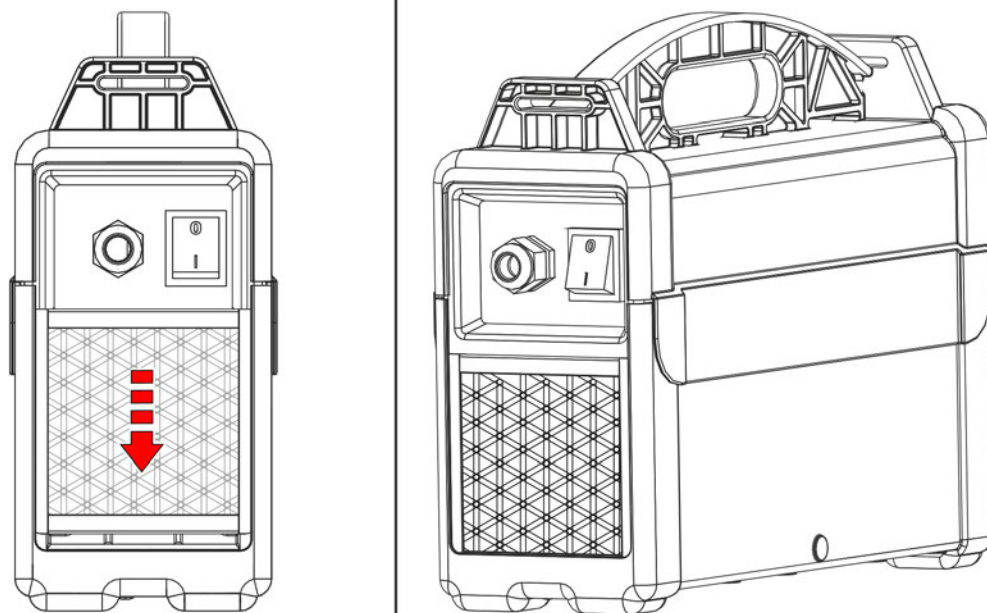


Figure 4-2

- Close the filter and push it behind the rubber sealing of the Safeguard.
- Push down the filter in direction of arrow

4.1 ON Safeguard S

Type	Designation	Item no.
ON Filter SG	Dirt filter for air inlet	092-007878-0000

4.2 ON Safeguard T.0003

Type	Designation	Item no.
ON Filter Safeguard M	Dirt filter for air inlet	092-008768-0000

5 Technical data

The technical data given here completes or replaces the respective values in the standard operating instructions.

5.1 ON Safeguard S

Dimensions L x W x H	370 x 130 x 290 mm 14.57 x 5.12 x 11.42 inch
Weight	+1,6 kg +3,53 lb

5.2 ON Safeguard T.0003

Dimensions L x W x H	437 x 152 x 320 mm 17.2 x 5.98 x 12.6 inch
Weight	+1,9 kg +4,19 lb