

OR-T 55



Battery-operated strapping tool for plastic strapping

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Translation of original manual according to „Machine Directive“ 2006/42/EEC.

Read the operating instructions carefully.

These operating instructions are part of the product and therefore should be kept for later use or a future owner.

Validity

- OR-T 55 from Series no E/21111001

Manufacturer

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1 General information

Meaning of warning symbols, usage conventions



DANGER

Indicates a hazard with a high level of risk, which, if not avoided, will result in death or serious injury.



WARNING

Indicates a hazard with a moderate level of risk, which, if not avoided, may result in death or serious injury.



CAUTION

Indicates a hazard with a minor level of risk, which, if not avoided, may result in minor or moderate injury.



ATTENTION

Indicates a situation that can lead to material damage or poor operating results.



Indicates useful, supplementary information.

- ▶ This symbol identifies action steps.
 - This symbol indicates results from action steps.
- This symbol identifies list items.

Disposal and environmental protection

This tool is manufactured without any physical or chemical substances which could be dangerous to health.

It is important to protect health and also promote the reuse and environmentally-appropriate recycling of waste. The following harmonised standards have also been taken into consideration:

- Directive 2011/65/EU of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS II).
- Directive 2012/19/EU of 4 July 2012 on waste electrical and electronic equipment (WEEE II).

The legal prescriptions for disposal of all parts must be observed.

- ▶ Chargers and batteries should be sorted for environmentally-friendly recycling.
- ▶ Observe notes, warnings and instructions of the battery manufacturer.



2

Safety

2.1 General safety warnings for power tools



WARNING! Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term “power tool” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

2.1.1 Work area safety

- a) **Keep the work area clean and well lit.** Cluttered or dark areas invite accidents.
- b) **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
- c) **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2.1.2 Electrical safety

- a) **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce the risk of electric shock.
- b) **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- c) **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- d) **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep the cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- e) **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- f) **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

2.1.3 Personal safety

- a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- b) **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust masks, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c) **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to the power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
- d) **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- e) **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- f) **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
- g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.

2.1.4 Power tool use and care

- a) **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
- b) **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c) **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- d) **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- e) **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
- f) **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

2.1.5 Battery tool use and care

- a) **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- b) **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- c) **When the battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
- d) **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.

2.1.6 Service

- a) **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

2.2 Use for the intended purpose

These tools are intended for the strapping of packaged items such as packages, pallet loads etc. The tools are intended for strapping with plastic packaging straps (polypropylene and polyester) (Section 7). Only use these tools as described in these operating instructions.

2.2.1 Possible misuse

- Do not use steel straps with these tools.
- Do not lift, hang or pull packaged goods by the straps.
- Do not modify without prior authorisation.
- Do not use these tools to compress goods.

2.3 Working safely

The operating instructions must always be available at the place of operation of the strapping tool. They must be read and observed by all persons working with or in the vicinity of the strapping tool. Preventive and corrective maintenance on the tool may only be carried out by trained personnel.

In addition to the operating instructions, the applicable local rules for accident prevention and safe and professional work must be observed.



The operator or his supervisor is responsible for safe strapping and the correct strap selection (Section 7) for the package, depending on its dimensions, weight, edges and stability and the way it will be transported and stored. Only the strap specifications (Section 7) specified for the tool type should be used. The tools should be adjusted appropriately for the strap used and the package (Section 4). The operator is responsible for the correct tool settings and adjustments.

Wear protective equipment

- When operating the tool, wear eye, ear and hand protection (cut-proof gloves) and safety shoes.



2.4 Safety instructions



WARNING

Read all safety warnings and all instructions in this operating instructions and in the battery charger operating instructions.

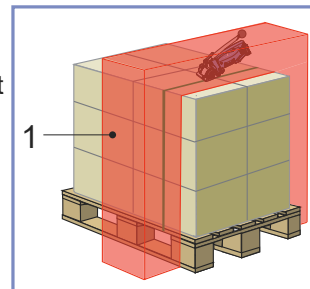
Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. Following hazards can result in serious injuries:

Strap tensioning or strapping, danger of jamming and crushing

Do not place hands or other body parts between the strap and the packaged goods during the strapping process. Ensure that there are no other persons in the hazard zone (1).

For an emergency stop in the case of danger (trapped person):

- To release the strap tension (before welding), actuate the rocker lever.
- After welding, cut the strap using a suitable tool (strap cutter).





WARNING

Following hazards can result in injuries:

Loose and falling packaged goods in the case of faulty seal

Check the weld seal. Never transport packaged goods if loads look unbalanced or improper (Section 5.2).

Never lift packaged goods on the strapping, risk of injury

The strapping is designed in such a way that it is only intended to secure the packaged goods during transport, storage etc.



Risk of explosion in EX (Explosive) zones

The tool must not be used in areas where explosions can occur as a result of the environment or products being used.



Moving parts of the tensioning device, risk of crushing

Do not grasp in the area of moving parts.

Breaking straps, risk of injury

When being tensioned the strap may break and whip out. Do not stand in line with the strap while it is being tensioned. Wear eye protection.

Strap ends snapping back, risk of injury

When cutting the strap, hold the upper portion and stand safely away from the strap. Do not stand in line with the strap while it is being tensioned. Wear eye protection.

Compressed air for cleaning work, risk of injury

When cleaning with compressed air, no air must penetrate the body via skin lesions. Use a blow gun with a multi hole nozzle. Wear eye protection.



CAUTION

The following dangers can result in minor or moderate injury:

Vibration and noise exposure

When operating the tool, wear ear and hand protection (cut-proof gloves).

The vibration/noise level specified in these instructions has been measured according to a measurement method standardised in EN 60745 and can be used for the comparison of power tools with each other. It is also suitable for a preliminary estimation of the vibration/noise load.

The vibration/noise emission value measured may deviate from the specified value depending on the actual application, the strap used and the manner of operation. Under certain circumstances, the vibration/noise load may be increased over the entire work period. For a more accurate assessment of the vibration/noise load, the times should also be considered when the device is switched off, or is running but not actually being used. This could reduce the vibration/noise load significantly over the entire work period. Define additional safety measures against the effect of vibrations for the protection of the operator, such as, for example: maintenance of the power tool, keep hands warm and organisation of work processes.



ATTENTION

Avoid damage to the tool:

Water damage

Do not clean the tool with water or steam. When using the tool outdoors, protect it from rain.

Use only original spare parts

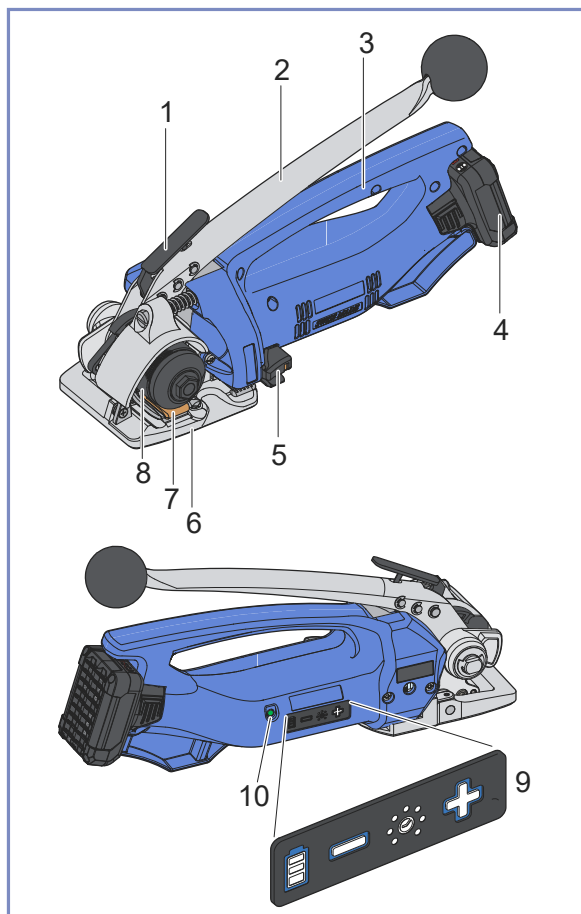
Using non-original spare parts will void the warranty and any liability.

3

Description

3.1 Design

- 1 Welding lever
- 2 Tensioning lever
- 3 Handle
- 4 Battery
- 5 Cutting device
- 6 Serial number (XJJMMYYYY)
X→ E=OR-T 55
JJ→ Year
MM→ Month
YYYY→ consecutive number
- 7 Tension shoe
- 8 Tension wheel
- 9 Foil tastatur
 – Battery charging indicator (Section 4.1.3)
 – Adjust welding time (Section. 4.3)
- 10 Tri-Color LED
 – Green light: Ready for operation.
 – Yellow light: During welding and the subsequent cooling time.
 – Flashing red: If the tensioning lever is moved back too early during the welding process (tool is blocked; remove battery and reinsert).
 – LED off: Battery charge level too low.



Battery and charger

- 1 Battery (Bosch Li-Ion 12 V/6.0 Ah)
- 2 Charger (AL60 DV1419)
- 3 LED indicator

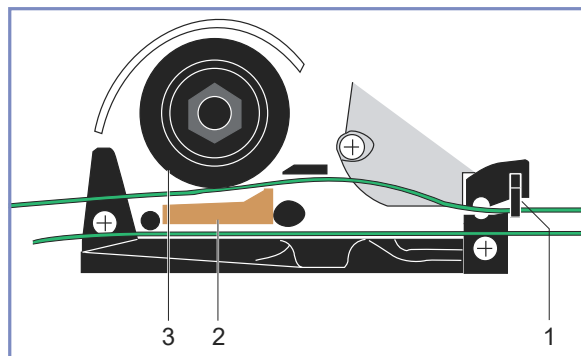


For detailed information, refer to the operating instructions for the battery and the charger.



3.2 Function

- Pressing the tensioning lever against the handle opens the tensioning device for inserting the straps.
- Insert the start of the strap below the tension shoe (2) and under the cutting device (1). Release the tensioning lever.
- Insert the strap coming from the dispenser between the tension wheel (3) and the tension shoe (2) and insert it through the slot in the cutting device (1).
- Move the tensioning lever back and forth until the desired tensioning force is reached.
- Press welding button against tensioning lever and move tensioning lever all the way forward. Now the straps are welded and the upper strap is cut off in the cutting device (1).



- The strap tension is adjustable (Section 4.2)
- The welding time is adjustable (Section 4.3)
- The strap width is adjustable (Section 5.3)
 - 9–10, 12–13, 15–16 and 19 mm
 $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ " or $\frac{3}{4}$ "

3.3 Scope of delivery

For strapping tool OR-T 55:

- Battery Li-on 12 V / 6.0 Ah Part no 2187.020
- Battery charger AL60 DV1419, 230 V Part no 2188.025

or for USA version:

- Battery Li-on 12 V // 6.0 Ah, BAT420 Part no 2187.021
- Battery charger AL60 DV1419, 115 V Part no 2188.026

or for Japan version:

- Battery charger AL60 DV1419, 100 V Part no 2188.027

Tool kit consisting of:

- Wire brush Part no 1821.901.004
- Open-end wrench SW 17 Part no 1990.101.017
- Open-end wrench SW 11 Part no 1990.101.011

4

Preparing for operation and settings

4.1 Battery

For detailed information, see the separately enclosed operating instructions for the battery and the charger.



WARNING

Exclusively use Bosch batteries and chargers as described in this manual (Section 3.3). Use of other batteries/chargers can result in injury or fire. To avoid the risk of personal injury or fire, read the battery charger operating instructions prior using the charger and battery.

4.1.1 Charging the battery

- ▶ Connect charger to mains.
 - Green LED illuminates (charger ready for use).
- ▶ Insert battery in charger.
 - Green LED flashes: Battery is being charged.
 - Green LED illuminates continuously: Battery is fully charged.
 - Red LED illuminates continuously: Battery temperature outside charge-temperature range.
 - Red LED flashes: see operating instructions of charger.



- Charging time: Charging of empty battery:
80% / 100%: approx. 60 / 80 min.
(US-Version: approx. 120 / 160 min)
- Ideal battery temperature during charging process: 15–40 °C (59–104 °F)
- Avoid battery temperatures below 0 °C (32 °F) and over +45 °C (113 °F) during the charging process.
- The battery can be charged at any time, regardless of the charge status.

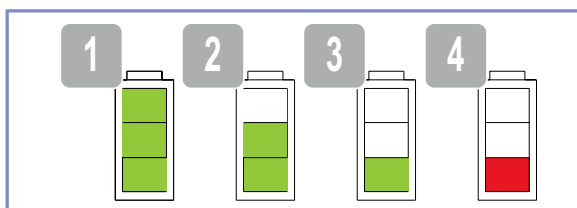
4.1.2 Inserting/removing battery in/from tool

- ▶ Inserting the battery: Insert the charged battery into the tool.
 - The displays on the operating panel illuminate.
- If the tool is not used for approx. two minutes the display changes into sleep mode. Cancelling sleep mode: Press tensioning lever.
- If the tool is not used for a long period (days) the battery must be removed from the tool and charged/stored in the battery charger.
- ▶ Removing the battery: Press the unlock button and remove the battery at the same time.

4.1.3 Checking the charge status

LED display "Battery charge status" on operating panel, with battery inserted:

- 1 Battery maximum charged
- 2 Battery fully charged
- 3 Battery low charged
- 4 Battery empty (battery must be charged)

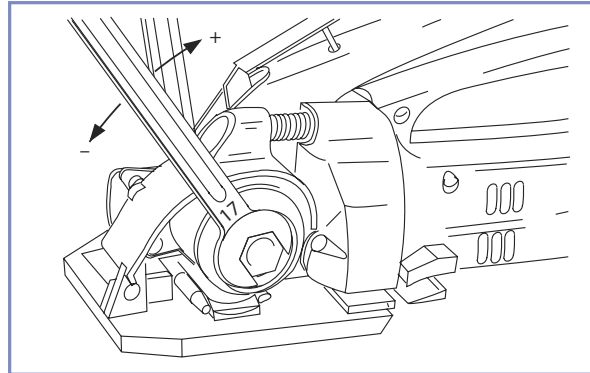


4.2 Setting strap tension



The maximum strap tension is determined by the adjustment of the friction clutch. For this reason two open-end wrenches are supplied.

- ▶ Block the tension shaft on rear side with the small open-end wrench (SW 11).
- ▶ With the other open-end wrench (SW 17) adjust the nut (friction clutch).
 - Turning the nut in clockwise direction the strap tension is increased.
 - Turning the nut in counterclockwise direction the strap tension is reduced.



Best results are achieved by adjusting the clutch to the maximum tension for the package being strapped. But not as tight that the tension wheel will turn over or the strap breaks.

4.3 Setting welding time

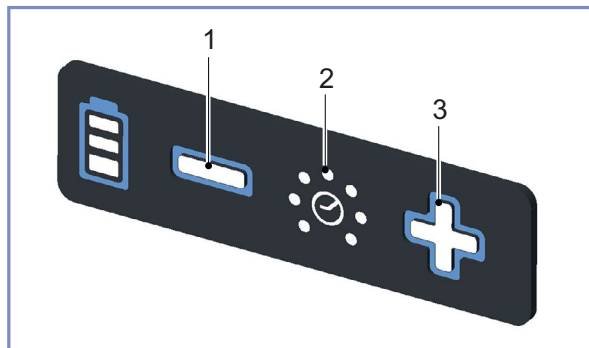


WARNING

Never transport or move packaged goods with improperly performed strapping / weld sealing - serious injuries may result.

The set welding time is continuously displayed by means of filled dots (2) when the unit is ready for operation.

- ▶ Press the – (1) or + (3) key until the desired sealing time is displayed by means of filled dots (2).
- ▶ Carry out seal check after each strapping (Section 5.2)



5

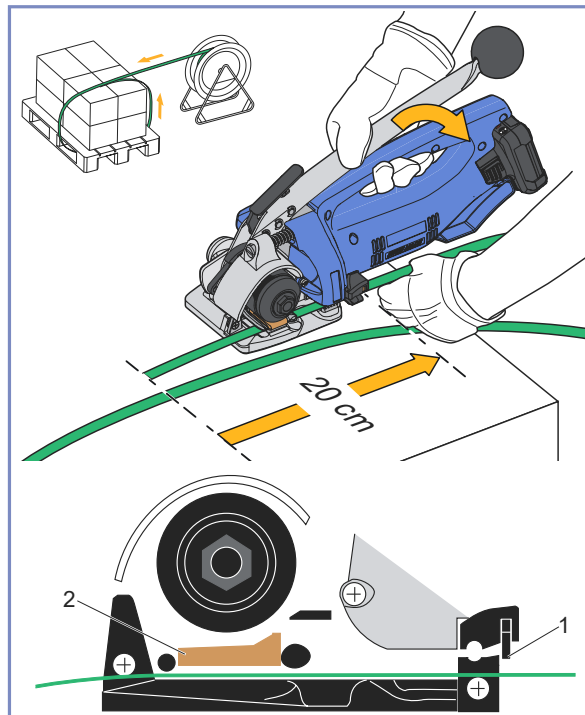
Operating instructions

5.1 Strapping

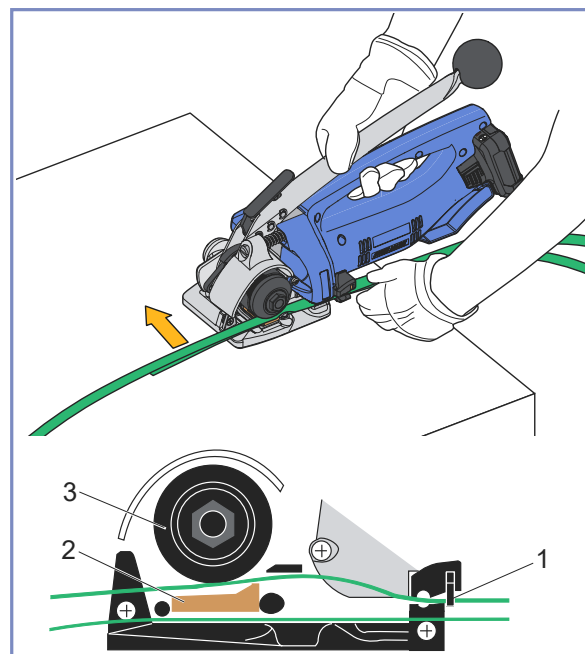
Preconditions

- The tool is adjusted to the width of the strap to be used (Section 5.3).
- The charged battery is inserted (Section 4.1.2).
- Desired maximum tension force is set (Section 4.2).
- Desired welding time is set (Section 4.3).

- ▶ Place the strap around the package and hold it with the left hand so that the lower strap lead is approx. 20 cm (8") away from the hand.
- ▶ Take the tool with the right hand and press the tensioning lever towards the handle.
- ▶ Slide the strap start under the tension shoe (2) and below the cutting device (1) into the tool until the stop is reached.
 - The lower strap is now approx. 5 cm (2") beyond the tool.
- ▶ Release the lever.



- ▶ Insert the strap from dispenser between the tension wheel (3) and the tension shoe (2). Then insert the strap into the slot of the cutting device (1) until stop is reached.





WARNING

Strap tensioning or strapping, danger of jamming and crushing

Do not place hands or other body parts between the strap and the packaged goods during the strapping process. Ensure that there are no other persons in the hazard zone (Section 2.4).

For an emergency stop in the case of danger (trapped person):

- To release the strap tension (before welding), press the tensioning lever against the handle.
- After welding, cut the strap using a tool (strap cutter).



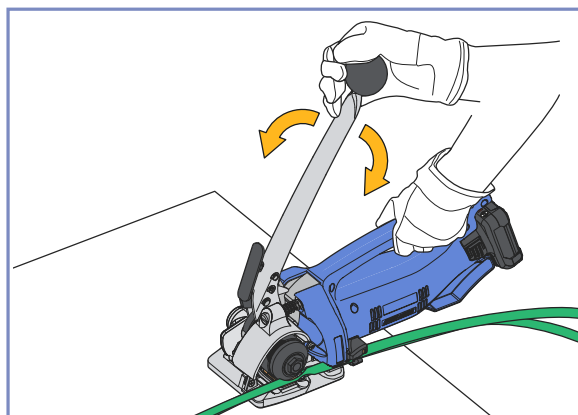
CAUTION

When being tensioned the strap may break and whip out. Do not stand in line with the strap while it is being tensioned. Wear eye protection.

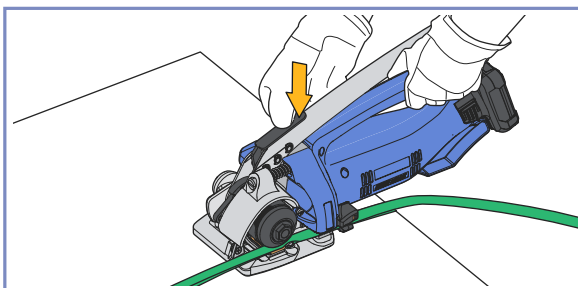
- ▶ Hold the tool by the handle with the left hand and move the tension lever with the right hand back and forward until the desired strap tension is reached.



The maximal strap tension is adjustable (Section 4.2). If the tool is used in a dusty environment, it is recommended to clean the tool regularly. The tension wheel in particular should be kept clean (Section 6.2).



- ▶ Bring back the tension lever to the intermediate position, push the black welding lever towards the tensioning lever.
 - Now the tool is ready for welding the straps.

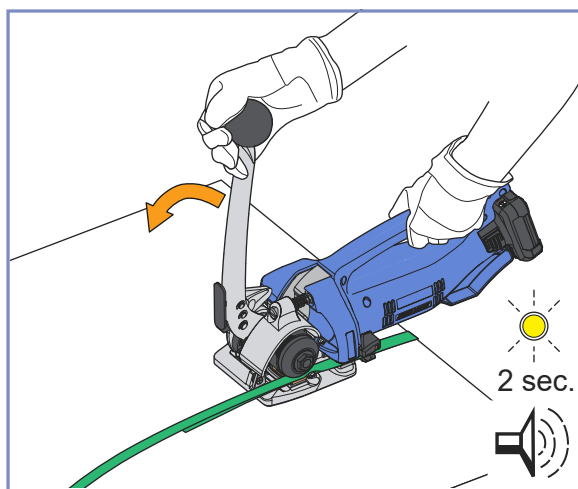


- ▶ Push the tensioning lever as far as it will go in one movement. The left hand remains on the handle of the unit to absorb the counterforce.



The straps are welded together and the upper strap is cut off.

- ▶ Hold the tensioning lever in this position (approx. 2 sec.) until the yellow LED on the back of the tool goes out and the acoustic signal sounds.
 - If the yellow LED flashes on the back, the cooling time is running.



LED flashing red: If the tensioning lever is moved back too early during the welding process (tool is blocked; remove battery and reinsert). If the charge status display (section 4.1.3) is red, there is no welding, since a safe welding of the straps can no longer be guaranteed with the remaining charge of the battery.

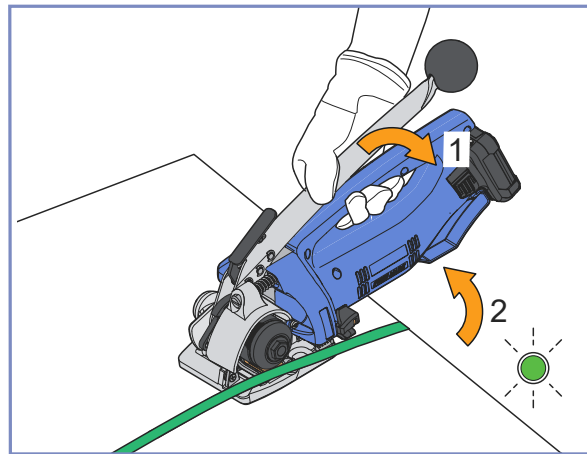
- If the green LED flashes on the back, the tool can be removed.
- ▶ Press tensioning lever (1) against the handle. Then swing the tool away from the strapping to the right at the rear (2).
- ▶ Carry out a visual sealing inspection (Section 5.2).



WARNING

Never lift packaged goods on the strapping, risk of injury.

The strapping is designed in such a way that it is only intended to secure the packaged goods during transport, storage etc.



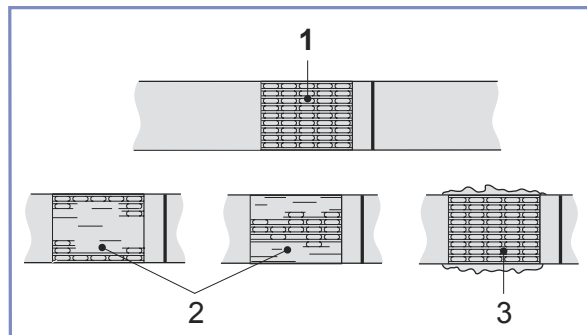
5.2 Checking the seal



WARNING

Never transport or move packaged goods with improperly performed strapping / weld sealing - serious injuries may result. Perform sealing check after each strapping.

- ▶ Perform sealing check by visual inspection.
- 1 **Good seal** (the entire sealing area has been cleanly welded, without excess material being forced out sideways).
- 2 **Poorly welded seal** (weld not over entire sealing area), welding time too short.
- 3 **Poorly welded seal** (excess material has been forced out sideways), welding time too long.



In the case of straps with poorly welded seals:

- ▶ Check the welding time setting (Section 4.3).
- ▶ Strapping with poorly welded seals must be performed again.
- ▶ Check strap type (Section 7).
- ▶ If good welding is not achieved, the tool must be checked by an authorized service center.

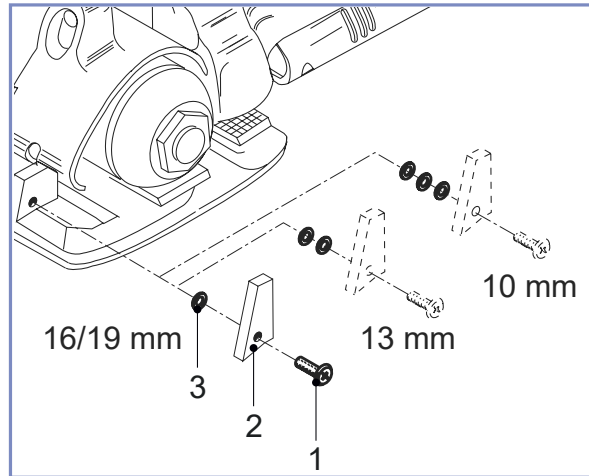
5.3 Setting the strap width

The tools can be operated with the following strap widths:

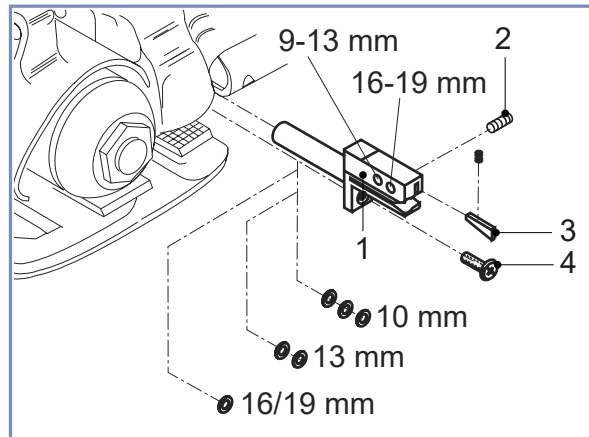
- OR-T 55: 9–10, 12–13, 15–16 or 19 mm ($\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ " or $\frac{3}{4}$ ")

Required parts	Order number
Washer (3)	1821.020.042

- To change the strap width, the strap stop (2) must be removed with the screw (1) from the tool and refitted with washers (1.5 mm thick) according to the width of the strap.
- Strap width 19 mm ($\frac{3}{4}$ "): without washer
- Strap width 15–16 mm ($\frac{5}{8}$ "): one washer
- Strap width 12–13 mm ($\frac{1}{2}$ "): two washers
- Strap width 9–10 mm ($\frac{3}{8}$ "): three washers



- ▶ Loosen screw (4) and remove knife sleeve (1).
- ▶ Remove special screw (2) and move the pawl (3) to desired position according to strap width. Tighten special screw (2).
- ▶ Insert washers between base plate and knife sleeve according to strap width.
- Strap width 19 mm ($\frac{3}{4}$ "): without washer
- Strap width 15–16 mm ($\frac{5}{8}$ "): one washer
- Strap width 12–13 mm ($\frac{1}{2}$ "): two washers
- Strap width 9–10 mm ($\frac{3}{8}$ "): three washers
- ▶ Tighten screw (4) again.



6

Preventive and corrective maintenance



WARNING

Unexpected startup during maintenance work, injuries possible.

Always remove the battery before performing cleaning or preventive and corrective maintenance work.

6.1 Preventive maintenance schedule

Task	Interval (cycles)
Cleaning the tool (Section 6.2)	<ul style="list-style-type: none"> – Daily (for > 300 strappings/day) – Weekly (for < 300 strappings/day)
Tool inspection (recommended)	– Every 2 years or 50,000 strappings, service by specialist unit

6.2 Cleaning the tool

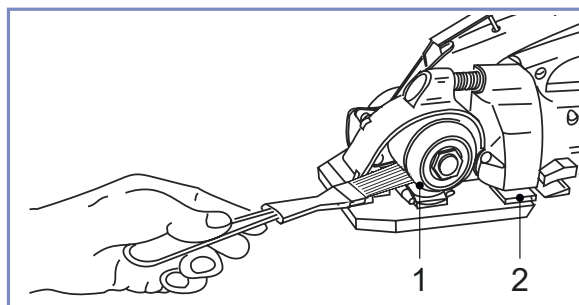
In the case of heavy dirt accumulation it is recommended that the tool be cleaned regularly (daily). In particular, the tension wheel and the tooth plate should be checked for damage and kept clean.



WARNING

Wear eye protection when cleaning with compressed air!

- Clean the tension wheel (1) and the toothed plate (2) by blowing them out sideways with compressed air or with the steel brush supplied.
- If necessary, replace the tension wheel / tooth plate (Section 6.3 / 6.4).

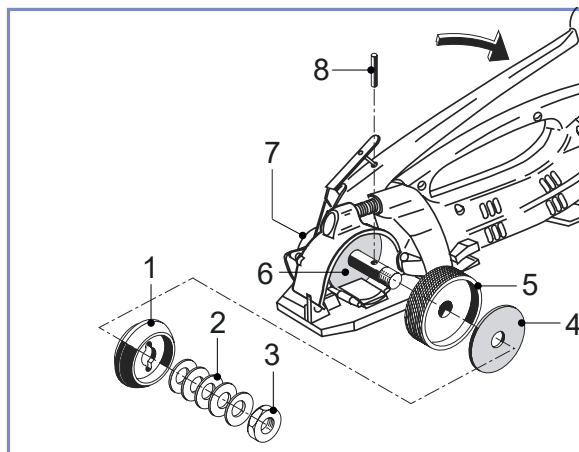


6.3 Replacing the tension wheel

Required parts	Order number
OR-T 55: Tension wheel (1) (wear part)	1821.047.003
Nut (3)	1820.020.163
Saucer spring (2) Ø25/12,2 x 1,5	1925.210.122
Carrier (1)	1821.255.001
Clutch disk (4) (6)	1830.000.262
Pin (8)	1821.030.024

Dismantling

- Remove battery from tool.
- Block the tension shaft (7) with the open-end wrench supplied (SW 11). Remove nut (3) with other open-end wrench (SW 17).
- Remove five saucer springs (2) and carrier (1).
- Press tensioning lever and remove pin (8).
- Remove the tension wheel (5) with the two clutch disks (4) and (6).



- Check clutch disks for wear, replace if necessary. Replace tension wheel.

Fitting

- Fitting is performed in reverse order.



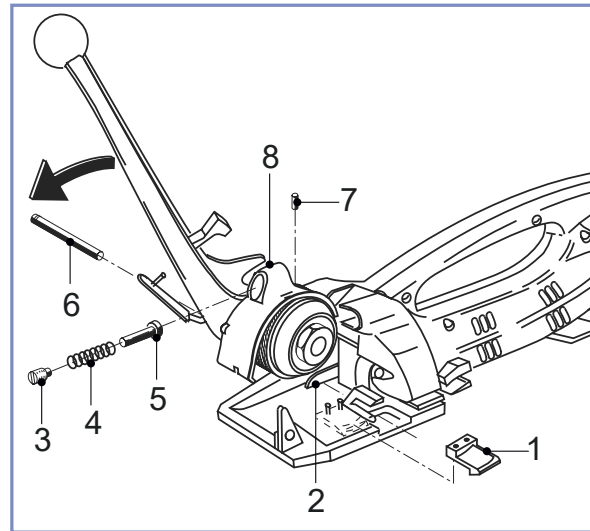
Do not oil the coupling discs. Set maximum belt tension after installation (Section 4.2).

6.4 Replacing the tension shoe

Required parts	Order number
OR-T 55: Tension shoe (1) (wear part)	1821.048.004
Set screw (3)	1820.030.092
Compression spring (4)	1821.010.018
Bolt (5)	1821.033.009
Spiral pin (6)	1821.039.006
Set screw (7)	1910.604.082

Dismantling

- Remove battery from tool.
- Push the tensioning lever forward until the stop is reached.
- Remove set screw (3) with compression spring (4) and bolt (5).
- Release set screw (7).
- Push out spiral pin (6) with a small screwdriver.
- Raise rocker unit (8) and remove and replace tension shoe (1).
- – Clean tooth plates and tension wheel.



Fitting

- Fitting is performed in reverse order.
- Before inserting the rocker unit (8) lift stroke lever (2) that the switch link of the rocker lies below the stroke lever. After mounting the shaft turn the tension wheel until the rocker moves down.
- Screw in set screw (3) until it is in line with the casing.

6.5 Troubleshooting

If the error cannot be rectified by applying the measures described above, please contact the local service center!

In the case of other errors not described here, please contact the local service center.

Error / Display	Probable cause	Remedy / Corrective action
Tri-colour LED (Sec. 3.1) remains dark.	<ul style="list-style-type: none"> Battery defective / completely discharged. Battery not inserted correctly. The battery inserted is not permissible (wrong battery). 	<ul style="list-style-type: none"> ▶ Charge/replace battery (Sec. 4.1.1/4.1.2). ▶ Check that the battery is fully inserted. ▶ Insert the correct battery.
Red battery level indicator flashes red (Sec.4.1.3).	<ul style="list-style-type: none"> Battery empty. 	<ul style="list-style-type: none"> ▶ Charge battery (Sec. 4.1.1).
Strap is not tensioned.	<ul style="list-style-type: none"> Strap inserted incorrectly in the tool. 	<ul style="list-style-type: none"> ▶ Insert the strap correctly into the tool (Sec. 5.1).
Desired strap tension is not achieved.	<ul style="list-style-type: none"> Dirty or defective tension wheel. Maximum strap tension (friction clutch) incorrectly set. 	<ul style="list-style-type: none"> ▶ Clean/replace tension wheel (Sec. 6.2/6.3). ▶ Setting strap tension (Sec. 4.2).
Tension wheel is spinning.	<ul style="list-style-type: none"> Dirty or defective tension wheel. Maximum strap tension (friction clutch) set too high. 	<ul style="list-style-type: none"> ▶ Clean/replace tension wheel (Sec. 6.2/6.3). ▶ Setting strap tension (Sec. 4.2).
Strap is not welded properly (tears in the welding area).	<ul style="list-style-type: none"> Welding time too short/too long. 	<ul style="list-style-type: none"> ▶ Setting welding time (Sec. 4.3).
Tri-colour LED (Sec. 3.1) flashes red.	<ul style="list-style-type: none"> Tensioning lever is moved back too early during welding process. Tool is blocked. 	<ul style="list-style-type: none"> ▶ Remove battery and reinsert.

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Technical data

	OR-T 55
Weight	3.8 kg (8.4 lb) (incl. battery)
Dimensions	Length: 380 mm width: 130 mm Height: 200 mm (15") (5.1") (7.9")
Strap tension	With friction clutch fully variable up to 2300 N (510 lbs.) depending on strap quality
Sealing	Friction welded
Typical measured A-rated emission sound pressure level – EN 60745-1/2:2009	L _{pA} 79 dB (A) (Deviation 3.0 dB)
Average sound power level – EN 60745-1/2:2009	L _{WA} 90 dB (A) (Deviation 3.0 dB)
Vibrations at handle – EN 60745-1/2:2009	a ^h 4.3 m/s ² (Deviation 1.5 m/s ²)
Operating temperature for the strapping tool (see separate operating instructions for battery and charging device)	–10 °C to +40 °C (14–104 °F)
Relative humidity	Up to 90 %
CHARGER / BATTERY	
Rated voltage charger	100 / 110 / 230 V
Charger type	GAL 1230 CV (US-Version: Bosch BC330)
Charging time	approx. 60 min. = 80% charging capacity (US-Version: approx. 120 min.) approx. 80 min. = 100% charging capacity (US-Version: approx. 160 min.)
Strappings with one battery charge	approx. 500 depending on strap
Battery	Bosch Li-Ion 12 V/6.0 Ah
PLASTIC STRAP	
Strap type	Polypropylene (PP), Polyester (PET)
Strap width adjustable to	9–10 mm, 12–13 mm, 15–16 mm, 19 mm (³ / ₈ " , ¹ / ₂ " , ⁵ / ₈ " , ³ / ₄ ")
Strap thickness	0.50–1.00 mm (.019"–.039")



* refer to Section 2.4, Vibration and noise exposure

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EC Declaration of Conformity (copy)

(CE 2006/42/EC, Annex II 1.A.)

The manufacturer take sole responsibility for declaring that the machines to which this declaration refers are in full conformity with the current requirements of the Council Directive of 17th May 2006 (2006/42/EC) "Machine Directive" and its amendments.

Furthermore, electrical installations are in conformity with the requirements of the Council Directive of 26th February 2014 (2014/30/EU) "EMC Directive".

The following harmonised standards
were taken into account:

EN 60745-1:2009 + A11:2010; EN 60745-2-18:2009; EN ISO
12100:2010; EN ISO 13854:2019; EN 61000-6-1;
EN 61000-6-3; EN 415-8: 2008

CB Test Certificate:

NL-79014

Place of certification:

DEKRA Certification B.V.

Meander 1051, NL-6825 MJ Arnhem, Netherlands

Type designations:

OR-T 55

From machine no./ year of construction E/21111001 / 2021

CH-8953 Dietikon, 18.02.2022



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