



JOSEF KIHBERG

BATTERY-POWERED TOP STAPLER

BATTERI-DRIVEN LOCKHÄFTARE

c.561B
c.561B22

a.560B
a.560B22

Patent pending
Patentsökt



EN PAGE 2
SE SIDA 25

OPERATING MANUAL
ANVÄNDARHANDBOK

Original operating manual according to “Machine Directive” 2006/42/EEC.

Read this manual carefully.

This manual is part of the product and therefore should be kept for later use or a future owner.

Validity

c.561B from Series no 1904xxx

c.561B22 from Series no 1904xxx

a.560B from Series no 1904xxx

a.560B22 from Series no 1904xxx

Manufacturer / Customer service

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(or local service center)



(for stapling tools with LED indicators only)

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1 General information

1.1 Conventions and symbols used within this manual



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 or environmental damage or poor operating results.

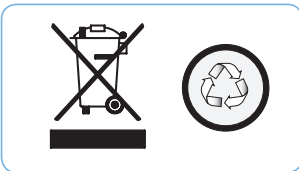


INFO

Indicates hints and recommendations.

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

1.2 Disposal and environmental protection



These tools are manufactured without any chemical substances which could be dangerous to health. Nevertheless, potential health damage may occur from battery liquid if batteries are treated or disposed of inadequately. Therefore, it is important to protect health and also promote the reuse and environmentally-appropriate recycling of waste. Chargers and batteries should be sorted for environmentally-friendly recycling and disposed of separately.

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

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

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).

2 Safety

2.1 Intended Use

These tools are intended for closing boxes made from cardboard. These tools are intended for stapling with staples as specified in Section "8". Only use these tools as described in this manual.

2.2 Forseeable misuse

- Do not use staples which are not listed in Section "8".
- Do not place any staples into unsuitable material.
- Never use these tools to attach electrical cables.
- Do not modify tools without prior authorisation.
- If your stapler is equipped with a position guidance laser (option) never direct laser at persons. Do not look directly into the laser.

2.3 Working safely



This manual must always be available at the place of operation of the stapling tool. It must be read and observed by all persons working with or in the vicinity of the stapling tool.

Preventive and corrective maintenance on the tool may only be carried out by trained personnel. In addition to this manual, the applicable local rules for accident prevention and safe and professional operation must be observed.

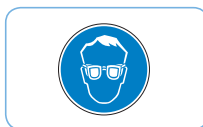
The operator or his supervisor is responsible for safe stapling and the selection of the correct staples (as specified in Section "8") for the package, depending on its dimensions, weight, stability and the way it will be transported and stored.

Only staples specified for the tool type (Section "8") must be used. The tools should be adjusted appropriately for the staples and the package used. The operator is responsible for the correct tool settings and adjustments.

Wear protective equipment



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



Safety goggles should always be worn by the operator and others in the work area when loading, operating or servicing these tools.

2.4 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.

2.4.1 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.

2.4.2 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.

2.4.3 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.

2.4.4 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.

2.4.5 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.

2.4.6 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.

2.5 Safety instructions for stapling tools



WARNING

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

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

Stapling tool safety warnings:

Always assume that the tool contains staples. Careless handling of the stapling tool can result in unexpected firing of staples and personal injury.

Do not point the tool towards yourself or anyone nearby. Unexpected triggering will discharge the staple causing an injury.

Do not actuate the tool unless the tool is placed firmly against the workpiece. If the tool is not in contact with the workpiece, the staple may be deflected away from your target.

Disconnect the tool from the power source when the staple jams in the tool. While removing a jammed staple, the stapling tool may be accidentally activated if it is plugged in.

Use caution while removing a jammed staple. The mechanism may be under compression and the staple may be forcefully discharged while attempting to free a jammed condition.

Do not use this tool for fastening electrical cables. It is not designed for electric cable installation and may damage the insulation of electric cables thereby causing electric shock or fire hazards.

Danger of jamming and crushing. Do not place hands or other body parts between or under the tool and the packaged goods during the stapling process.

Loose and falling packaged goods in the case of faulty stapling.

Check the staple seal. Never transport packaged goods if loads look unbalanced or incorrect.

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.

Damage due to humidity. Do not clean the tool with water or steam. When using the tool outdoors, protect it from rain. If the tool or the battery has water damage, it can cause fire or explosion.

Compressed air for cleaning work, risk of injury. When cleaning with compressed air, no air must penetrate the body via skin lesions. Use only clean and dry compressed air. Use a blow gun with a multi-hole nozzle. Wear eye protection.



CAUTION

The following dangers can result in minor or moderate injury:

Noise exposure

Wearing hearing protection is recommended.

Vibration exposure

The vibration level of these tools is lower than the permissible exposure limit.

The vibration level specified in this manual 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 load.

The vibration emission value measured may, however, deviate from the specified value depending on the actual application and the manner of operation. Under certain circumstances, the vibration load may be increased temporarily or may be significantly smaller over the entire work period. For a more accurate assessment of the actual vibration 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 load significantly over the entire work period.

Therefore, define additional safety measures against the effect of vibrations for the protection of the operator, such as, for example: maintenance of the tool and organisation of work processes.



Warning sign on protection plate at the bottom of the stapler and on rear housing.

Since the box detection sensors do not distinguish between cardboard and e.g. by the fingers of the operator, there is a risk that the operator may be injured when operating the trigger by driving staples (extending driver blade and clinchers).



ATTENTION

Avoid damage to the tool:

Use only original JOSEF KIHLEBERG staples.

Using non-original staples may impair operational safety and will void the warranty and any liability.

Use only original JOSEF KIHLEBERG spare parts.

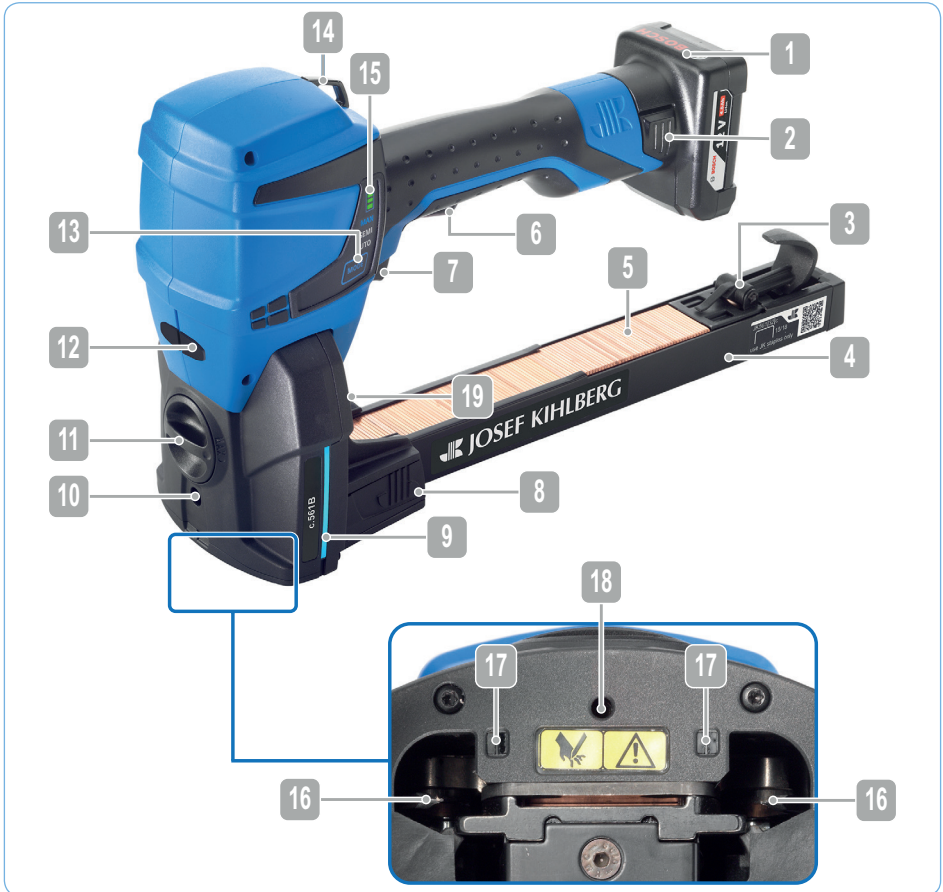
Using non-original spare parts may impair operational safety will void the warranty and any liability.

Use only Bosch batteries and chargers.

Batteries and chargers are described in Section "3.7".

3 Getting to know your stapler

3.1 Overview

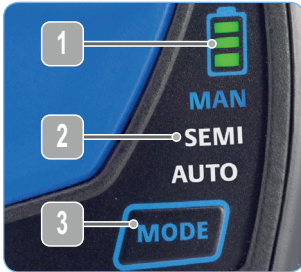


- | | | |
|---|--|---|
| 1 Battery | 8 Magazine quick snap system | 14 Suspension hanging port
(for stationary workplaces) |
| 2 Battery release | 9 Tool status indicator | 15 Battery charge status indicator |
| 3 Magazine pusher | 10 Screw for staple length
adjustment | 16 Clinchers |
| 4 Magazine with staple type
indication | 11 Penetration depth setting knob | 17 Box detection |
| 5 Staples | 12 Staple clinch adjusting nut | 18 Locking screw
(for staple length adjustment) |
| 6 Safety latch | 13 Mode button | 19 Company label (sticker) |
| 7 Trigger | | |



Serial number syntax is as follows (JJMMYYYY)
JJ → Year; **MM** → Month; **YYYY** → consecutive number

3.2 User Interface



- 1 Display "Battery charge status" (see also Section "4.3")
- 2 Mode indicators: MAN, SEMI, AUTO (see also Section "4.4")
- 3 Button "Mode"
 - One click: select mode of operation
 - Hold button (approx. one second): activate or deactivate optional laser

3.3 Tool status indicator



Whilst getting started:

blue LED pulsating twice:

indicates that battery has been inserted and trigger has been actuated once → tool turns on

During operation:

blue LED slowly pulsating "ready for operation"

green LED permanently on "tool in stapling position":

indicates activated box detection and finger on trigger (trigger sensor)

red LED slowly pulsating / permanently on "tool error": (see also Section "7")

3.4 Battery and charger

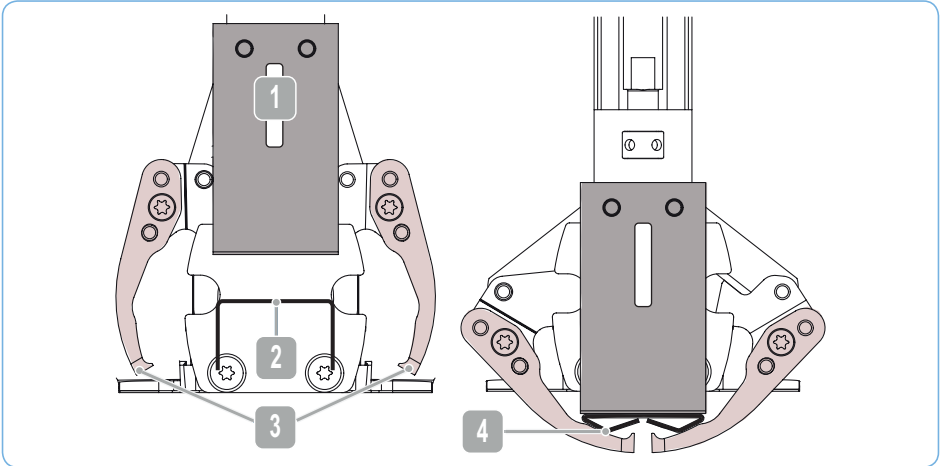


- 1 Battery
- 2 Charger
- 3 Battery release
- 4 LED indicator



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

3.5 Function



The stapling tool is positioned on the package to be closed (box detection sensors activated). By actuating the trigger the stapling process is started:

- During the downward movement of the driver blade (1), a staple (2) is sheared off the staple strip.
- The staple is pushed into the package by the driver blade and bent (4) using the clinchers (3).
- The clincher and driver blade are released from the packaged goods in an upward movement and brought into the initial position.

You can choose between three operating modes: (see also Section "4.4")

- Manual
- Semi-automatic
- Automatic

You can also choose between different staple types:

- c.561B: Width 32 mm (1¼") / Length 15–18 mm ($\frac{5}{8}$ – $\frac{3}{4}$ ")
- c.561B22: Width 32 mm (1¼") / Length 22 mm ($\frac{7}{8}$ ")
- a.560B: Width 35 mm (1⅜") / Length 15–18 mm ($\frac{5}{8}$ – $\frac{3}{4}$ ")
- a.560B22: Width 35 mm (1⅜") / Length 22 mm ($\frac{7}{8}$ ")



- Staple length 15 mm ($\frac{5}{8}$ ") for total cardboard thickness 5–9 mm (0.20–0.35")
- Staple length 18 mm ($\frac{3}{4}$ ") for total cardboard thickness 7–12 mm (0.28–0.47")
- Staple length 22 mm ($\frac{7}{8}$ ") for total cardboard thickness 11–16 mm (0.43–0.63")

- The staple leg length can be set (see Section "5.4").
- The staple penetration depth can be set (see Section "5.5").
- The staple clinch can be set (see Section "5.6").

3.6 Transporting the stapler

To prevent accidental triggering while carrying the tool, make sure that the handle is gripped by hand and the index finger is behind the shoulder (1).



3.7 Scope of delivery

For stapling tools
c.561B / a.560B:

- Battery BOSCH Li-Ion 12 V/4.0 Ah (EU) part no 137035
- Battery charger BOSCH GAL 1230 CV (230 V) (EU) part no 137033

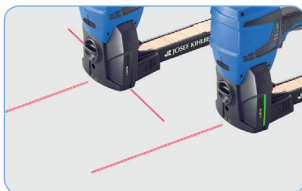
or for USA version:

- Battery BOSCH Li-Ion 12 V/4.0 Ah, BAT420 part no 137034
- Battery charger BOSCH BC330 (115 V) part no 137032

Tool kit consisting of (including
in the scope of delivery)

- Allen key Torx T10, part no 942070
- Allen key Torx T20, part no 942071

3.8 Optional features



Position guidance laser system

Depending on which model you have chosen, your stapler may be equipped with one of two position guidance laser systems:

- **Line-Laser** (front laser)
For positioning guidance with one front laser.
- **Cross-Laser** (three lasers)

For positioning guidance with one front and two side lasers.

If your stapler is equipped with this position guidance laser feature, additional risks may be involved, if the laser is, for instance, directed at persons:

The laser is only activated when the trigger is actuated.

A disruptive effect is possible with a laser device of class 1.

This means that persons in the immediate vicinity can feel disturbed or distracted by the laser.

(Predictable misapplication: Laser is directed at persons. Look directly into the laser)



4 Preparing for operation

4.1 Charging the battery

For detailed information, see enclosed operating instructions of battery and charger.



WARNING

Only use Bosch batteries and chargers for your country as described in this manual (see Section "3.7"). 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.



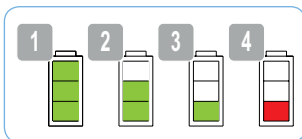
- ▶ Connect charger to mains.
 - Green LED illuminates (charger ready for use).
- ▶ Insert battery in charger.
 - Green LED flashes: Battery is being charged.
 - Green LED illuminates continuously: Battery is fully charged.
 - Red LED illuminates continuously: Battery temperature outside charge-temperature range.
 - Red LED flashes: see operating instructions for charger.
- Charging time: Charging of empty battery (80% / 100%): approx. 60 / 80 min. (US: 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 higher than +45 °C (113 °F) during the charging process.
- Battery can be charged at any time, regardless of charge status.

4.2 Inserting/removing battery from tool

- ▶ Insert the charged battery into the tool. The unlock buttons must engage in the tool.
 - The tool status indicator, indicates: Bright blue pulsating LED (2x).
 - If the tool is not used for approx. two minutes the tool changes into sleep mode. Cancel sleep mode by actuating trigger once.
 - If the tool is not used for a long period (days) the battery must be removed from the tool.
- ▶ Press the unlock buttons and remove the battery at the same time.

4.3 Checking charge status

LED display "Battery charge status" on digital user interface with battery inserted:



- 1 maximum battery charge
- 2 high battery charge
- 3 good battery charge
- 4 empty battery (battery must be charged)

4.4 Setting/description of operating modes



- ▶ Press the “MODE” button shortly.
 - The mode changes to **MAN**, **SEMI** or **AUTO**.

MAN (Manual stapling)

Individual staples are inserted. A cycle is initiated after the tool is placed on the package and the trigger is actuated manually.

Recommended for varying (soft, hard) packaged goods.

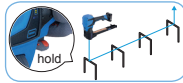
SEMI (Semi-automatic stapling)

Several staples can be inserted. Actuate trigger and hold it. As soon as the stapler is placed on a package, a stapling cycle is activated via box detection. A new cycle is then started, if the stapler is lifted off and placed back on the package (with the trigger held continuously). **Recommended for large quantities of identical packaged goods.**



AUTO (Automatic stapling)

Several staples can be inserted over a predefined interval. As soon as the stapler is placed on a package and the trigger is being actuated and held in this mode, staples will be inserted over the predefined period. With every further actuation (and holding) of the trigger, this cycle starts anew. A maximum of 20 staples will be inserted without lifting off. **Recommended for large quantities of identical packaged goods or long packages.**



4.5 Loading the stapler



There is a reloading mark (arrow) (1) on both sides of the magazine. If there are just a few staples left in the magazine, the staples should be filled up. The correct type of staple is marked on the left side of the magazine. Make sure to use the right length of staples for your application.

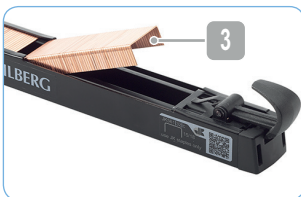


WARNING

Unexpected startup during loading.

- Remove the battery!

- ▶ Pull the pusher (2) all the way out and fix it in the rear position.
- ▶ Place staple strips (3) into magazine from the top.



CAUTION

Danger of crushing.

- Active feeding of the pusher until it reaches the staples.

- ▶ Lift the pusher to release it.
- ▶ Move the pusher forward carefully until it reaches the staples.
- ▶ Insert the battery into the tool.
- ▶ If necessary, adjust staple length (see Section “5.4”)

5 Operation

5.1 Activating the stapler from sleep mode



To avoid unnecessary battery discharge, the tool switches to energy-saving mode (sleep mode) after a short time.

- The user interface goes dark (not illuminated).
- The tool status indicator is switched off.
- ▶ Release the safety latch and actuate the trigger once.
 - The sleep mode is switched off again.
 - The tool status indicator changes to blue and pulsates slowly.
 - The user interface switches on.

5.2 Operating the stapler

Preconditions

- a) The tool is adjusted to correct staple lengths and penetration depth (see Section "5.4"/"5.5").
- b) The charged battery is inserted (see Section "4.2").
- c) The desired operating mode is set (see Section "4.4"). In this description it is assumed that the selected operating mode (default mode) is "**MAN**" (manual stapling).



WARNING Danger of injury!

Always place yourself in a firmly balanced position when using or handling the tool.

- ▶ Place tool on package and hold the tool against package (box detection covered).



WARNING Danger of injury!

Before stapling, ensure that your hand or any other part of your body is not underneath the tool or in the package to be closed.



- ▶ Pull the safety latch (1).
- ▶ Actuate the trigger (2).



The position of the tool status indicator (3) on both sides of the tool is equal to the stapling line (position).

- ▶ Move the tool and repeat until the stapling is finished.
- ▶ Carry out a visual inspection of the staple clinch (see Section "5.3").

5.3 Checking staple clinch

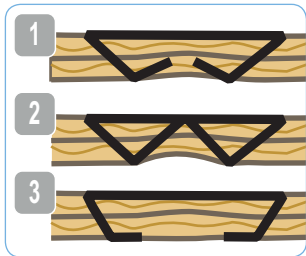


WARNING

Danger of injury!

Never transport or move packaged goods with improperly performed stapling.
Perform staple check after each stapling.

Performing a staple check by visual inspection



1 Good staple clinch

2 Poor staple clinch

→ Leg length of staple too long or overbent

3 Poor staple clinch

→ Leg length of staple too short or not bent enough



Always use JOSEF KIHLEBERG original staples!

- ▶ If necessary adjust staple clinch (see Section "5.6").
- ▶ If good stapling is not achieved, the tool must be checked by an authorized service center.

5.4 Adjusting staple leg length

The stapler can be adjusted to a 15 ($\frac{5}{8}$ ") or 18 mm ($\frac{3}{4}$ ") staple leg length.



- ▶ Remove battery from tool.
- ▶ Adjust penetration depth to deep (MAX) (see Section "5.5").
- ▶ With a Torx T10 key, unscrew locking screw (1) below the tool by two turns.



- ▶ With a screwdriver, adjust screw (2) to 15 ($\frac{5}{8}$ ") or 18 mm ($\frac{3}{4}$ ") leg length.
- ▶ Retighten the locking screw (1).



For 22 mm ($\frac{7}{8}$ ") staple leg length, use 18 mm ($\frac{3}{4}$ ") setting (c.561B22 and a.560B22 = 22 mm ($\frac{7}{8}$ ")).

5.5 Adjusting penetration depth

The depth of the stapling, i. e. the extent to which the driver plate penetrates the material, is easy to adjust using the setting knob.



- ▶ Depress the setting knob and turn it to any of its five positions.

→ **MIN = Lowest stapling penetration**
(i. e. smallest resulting leg length)



→ **MAX = Deepest stapling penetration**
(i. e. longest resulting leg length)



5.6 Adjusting staple clinch

It is recommended to adjust the staple clinch, i. e. how tightly the staples close.



- ▶ Remove battery from tool.
- ▶ Remove housing plug over slot.
- ▶ With a small screwdriver turn the adjusting nut behind the slot:
 - Turn to the right to close the clinch (→).



→ Turn to the left to open up the clinch (←).



6 Preventive and corrective maintenance



WARNING

Unintended actuation of trigger and safety latch during maintenance work could lead to injuries. Always remove battery before performing cleaning or preventive and corrective maintenance work.

6.1 Preventive maintenance schedule

Task	Interval (cycles)
Cleaning the stapler (see Section "6.2")	Weekly (for approx. 100-300 staplings/day)
Tool inspection (recommended)	Every 2 years, service by specialist unit (i. e. manufacturer or local dealer)

6.2 Cleaning the stapler

In the case of heavy dirt accumulation it is recommended that the tool be cleaned regularly (daily). In particular, the driver blade, the box detection and the clinchers should be checked for damage and kept clean.



NOTICE

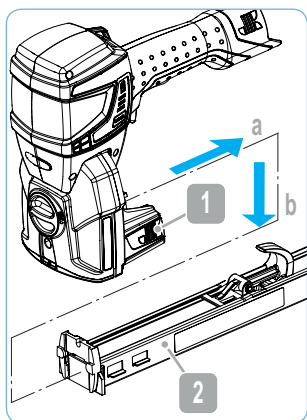
Keep moisture away from the tool.

- ▶ After removing the battery from tool, clean the area of the clinchers, base plate, box detection and magazine with a clean rag. For better access, remove magazine (see Section "6.4"). If necessary, clean/replace the driver blade/clinchers (see Section "6.5"/"6.6").

6.3 Removing jammed staples

- ▶ Remove battery from tool.
- ▶ Remove magazine (see Section "6.4").
- ▶ If necessary, remove rear body (see Section "6.5").
- ▶ If necessary, remove protection plate.
- ▶ Using a pair of pliers, remove the jammed staple.
- ▶ Reinstall parts and insert battery.

6.4 Removing/installing the magazine



Removing

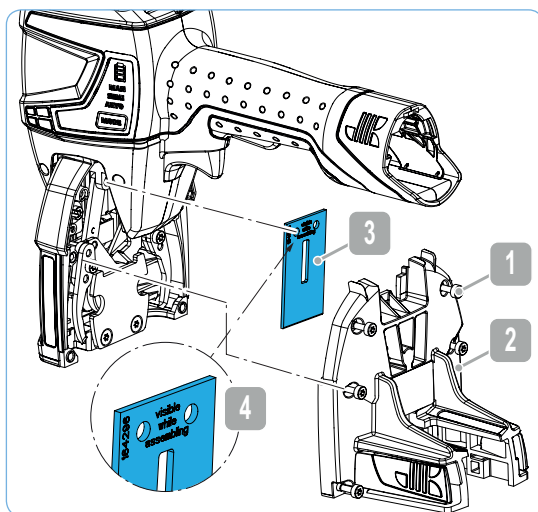
- ▶ Remove battery from tool.
- ▶ Press the quick release buttons on left and right side (1) on the stapler and pull the magazine (2) backwards (a) and afterwards pull it downwards (b).

Installing

- ▶ Installing is performed in reverse order.
- ▶ When installing the magazine make sure that the quick release buttons (1) are flush with the housing.
 - Only then the latching of the magazine is ensured and no malfunction (stable jam) can occur as a result.

6.5 Cleaning/replacing the driver blade (pos. 3)

Required parts	Order number
c.561B /c.561B22: Driver blade (wear part)	164175
a.560B: Driver blade (wear part)	164176
a.560B22: Driver blade (wear part)	164177
Cylinder screw Torx, M4 (1)	946876



Dismantling

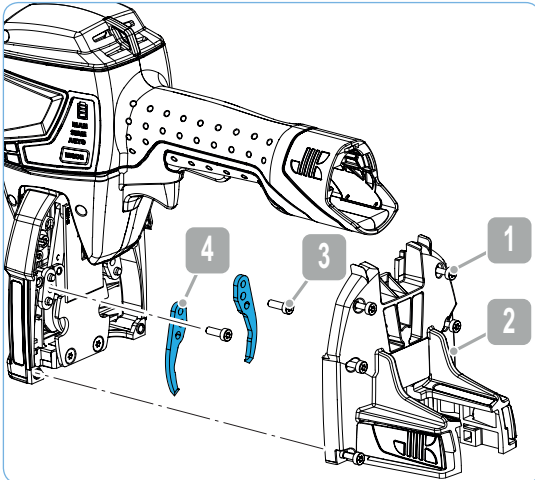
- ▶ Remove battery from tool.
- ▶ Remove magazine (see Section "6.4").
- ▶ Set penetration depth to MIN (see Section "5.5").
- ▶ Loosen six captive cylinder screws Torx (1) holding the rear body to the front section.
- ▶ Pull down the rear body (2) and remove it.
- ▶ Remove driver blade (3).
- ▶ Clean and check driver blade for wear, if necessary replace it.

Fitting

- ▶ Fitting is performed in reverse order.
- ▶ When installing the driver blade, make sure that the signage "visible while assembling" (4) points outwards.

6.6 Cleaning/replacing the clinchers (pos. 4)

Required parts	Order number
c.561B / a.560B: Clinchers (wear part)	134340
c.561B22 / a.560B22: Clinchers (wear part)	134350
Cylinder screw, housing, Torx, M4 (1)	946876



Dismantling

- ▶ Remove battery from tool.
 - ▶ Remove magazine (Section "6.4").
 - ▶ Set penetration depth to MIN (see Section "5.5").
 - ▶ Loosen six captive Torx cylinder screws (1) holding the rear body to the front section.
 - ▶ Pull down the rear body (2) and remove it.
 - ▶ Remove two Torx cylinder screws (3) and remove clinchers (4).
- Always change both clinchers at the same time.**
- ▶ Clean and check clinchers for wear, if necessary replace them.

Fitting

- ▶ Fitting is performed in reverse order.

7 Troubleshooting

If the error cannot be rectified by applying the measures described below, contact your local service center.

Problem	Probable cause	Remedy / Corrective action
Battery display remains dark.	<ul style="list-style-type: none"> • Battery faulty / fully discharged. • Inserted battery not permitted (wrong battery). • Battery not properly inserted. 	<ul style="list-style-type: none"> ▶ Charge/replace battery. ▶ Insert correct battery. ▶ Check whether battery is completely inserted and unlocking device engaged.
User interface and tool status indicator does not react.	<ul style="list-style-type: none"> • Sleep mode is activated. 	<ul style="list-style-type: none"> ▶ Actuate trigger.
Tool status indicator red and pulsating (stapler blocked)	<ul style="list-style-type: none"> • Process sequence warning. 	<ul style="list-style-type: none"> ▶ Actuate trigger. ▶ Remove jammed staples, see Section "6.3".
Tool status indicator pulsating quickly	<ul style="list-style-type: none"> • Staple encounters obstacle. • Clamp does not go through packaged goods (too hard). 	<ul style="list-style-type: none"> ▶ Ensure, that there are no obstacles. ▶ Make sure, that you exclusively staple common cardboard material.
No stapling performed when actuating trigger.	<ul style="list-style-type: none"> • Box detection not activated (tool not on package). 	<ul style="list-style-type: none"> ▶ Place tool on package.
Skipping staples or intermittent feed.	<ul style="list-style-type: none"> • Magazine not mounted correctly. • Staples out of specification. • Magazine quick release buttons not locked. • Magazine dirty/remains inside. • Driver blade, clincher dirty/remains inside. 	<ul style="list-style-type: none"> ▶ Install magazine, see Section "6.4". ▶ Replace with recommended staples. ▶ Clean magazine. ▶ Clean/replace driver blade or clincher, see Section "6.5"/"6.6".
Staple jam in the tool.	<ul style="list-style-type: none"> • Wrong staple size. • Bent staples. • Defective/dirty driver blade. • Staples out of specification. 	<ul style="list-style-type: none"> ▶ Replace with recommended staples. ▶ Clean/replace driver blade or clincher, see Section "6.5"/"6.6".
Slow stapling speed or blocked.	<ul style="list-style-type: none"> • Battery discharged. • Cardboard (package) too thick. 	<ul style="list-style-type: none"> ▶ Charge/replace battery. ▶ Use other cardboard thickness.
Poor staple clinch.	<ul style="list-style-type: none"> • Wrong leg length setting. • Wrong penetration setting. • Wrong clinch setting. • Driver blade, clinchers dirty/remains. 	<ul style="list-style-type: none"> ▶ Adjust staple length, see Section "5.4". ▶ Adjust penetration depth, see Section "5.5". ▶ Adjust staple clinch, see Section "5.6". ▶ Clean/replace driver blade or clincher, see Section "6.5"/"6.6".
Several staples are set at once.	<ul style="list-style-type: none"> • Magazine not mounted correctly. 	<ul style="list-style-type: none"> ▶ Install magazine, see Section "6.4".
Staple penetrates only through upper cardboard.	<ul style="list-style-type: none"> • Wrong penetration setting (too low). • Staples too short. • Cardboard (package) too thick. 	<ul style="list-style-type: none"> ▶ Adjust penetration depth, see Section "5.5". ▶ Replace with longer staples. ▶ Use other cardboard thickness.
Loose staple clinch.	<ul style="list-style-type: none"> • Clinch setting too loose. 	<ul style="list-style-type: none"> ▶ Adjust staple clinch (tighten), see Section "5.6".

8 Technical data

Stapling tool	c.561B/c.561B22	a.560B/a.560B22
Operation modes	Manual / Semi-automatic / Automatic	Manual / Semi-automatic / Automatic
Weight (incl. battery)	2.7 kg (6 lbs)	2.7 kg (6 lbs)
Dimensions (L x W x H)	410 x 110 x 205 mm (16.1" x 4.3" x 8.1")	410 x 110 x 205 mm (16.1" x 4.3" x 8.1")
Staple cycle speed	200 ms	200 ms
Magazine capacity	150 pcs	100 pcs
Typical measured A-rated emission sound pressure level – EN 60745-1/2:2009 Average sound power level – EN 60745-1/2:2009 Deviation K	L _{PA} 77 dB (A) L _{WA} 85 dB (A) K _{WA} 2.5 dB	L _{PA} 77 dB (A) L _{WA} 85 dB (A) K _{WA} 2.5 dB
Vibrations on handle – EN 60745-1/2:2009	a _h < 2.5 m/s ²	a _h < 2.5 m/s ²
Operating temperature (See also operating instructions for battery and charger)	–10 °C to +40 °C (14–104 °F)	–10 °C to +40 °C (14–104 °F)
Max. allowable relative humidity	Up to 90 %	Up to 90 %
STAPLES		
Length	c.561B: 15/18 mm (⁵ / ₈ – ³ / ₄ ") (JK561-15/18) c.561B22: 22 mm (⁷ / ₈ ") (JK561-22)	a.560B: 15/18 mm (⁵ / ₈ – ³ / ₄ ") (JK560-15/18) a.560B22: 22 mm (⁷ / ₈ ") (JK560-22)
Width	32 mm (1 ¹ / ₄ ")	35 mm (1 ³ / ₈ ")
BATTERY / CHARGER		
Charger type	Bosch GAL 1230 CV (US: Bosch BC330)	Bosch GAL 1230 CV (US: Bosch BC330)
Rated voltage charger	230 V (US: 115 V)	230 V (US: 115 V)
Battery	Bosch Li-Ion 12 V, 4.0 Ah	Bosch Li-Ion 12 V, 4.0 Ah
Charging time (80% / 100%)	approx. 60 / 80 min. (US: approx. 120 / 160 min.)	approx. 60 / 80 min. (US: approx. 120 / 160 min.)
Shots per battery charge	Up to 6'000	Up to 6'000

EC Declaration of Conformity (copy)

(Machine Directive 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) "Machinery 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 60745-2-16:2010;
EN ISO 12100:2010; EN 61000-6-1; EN 61000-6-3

EEC-Design certification:

M8A 028456 0013
(for stapling tools with LED indicators only)

Place of certification:

TÜV SÜD Product Service GmbH

Type designations:

c.561B, c.561B22, a.560B, a.560B22

From machine no. / year of construction:

19041001 / 2019

544 50 Hjo, 02.05.2019



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