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Instruction manual - Cordless drill

Page 6

IMPORTANT: Read all instructions before using.

Guide d'utilisation - Perceuses-visseuses sans fil

Page 19

IMPORTANT: Lire toutes les instructions avant de démarrer les travaux.

Manual de instrucciones -Taladro atornillador de batería

Página 33

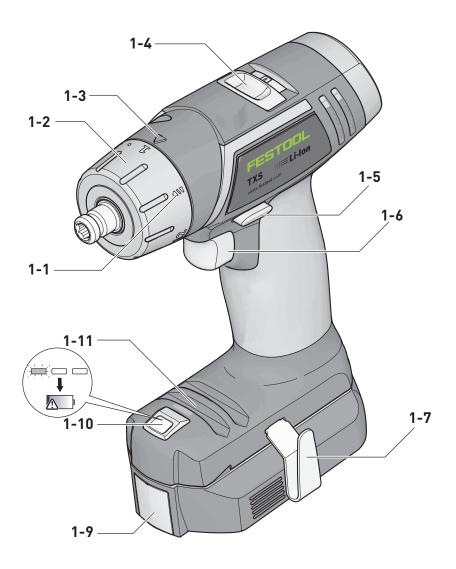
IMPORTANTE: Lea todas las instrucciones antes de usar.

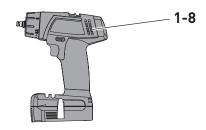
Instruction manual
Guide d'utilisation
Manual de instrucciones

TXS









Charger Chargeur Cargador



MXC			
	V~	120	
	Hz	60	
	V=	10.8	
[[->	Α	2.6	
!	С	-10° - 40°	
		II	

(b)		—
Lilon 1.5 Ah	min.	~ 23
Lilon 2.6 Ah	min.	~ 45

Battery pack Batterie Batería



		BP-XS
		for use with pour l'usage avec CXS, TXS para el uso con
U	V=	10.8
	Ah	2.6
# 🖺		3
₽ ≣	С	0° - 55°
å	kg	0.2

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About this manual

Save these instructions

It is important for you to read and understand this manual. The information it contains relates to protecting **your safety** and **preventing problems**. The symbols below are used to help you recognize this information.

A	DANGER	Description of imminent hazard and failure to avoid hazard will result in death.
A	WARNING	Description of hazard and possible resulting injures or death.
A	CAUTION	Description of hazard and possible resulting injuries.

/	Statement including nature of hazard and possible result.	
igcup	Indicates information, notes, or tips for improving your success using the tool.	

Symbols

Symbol	. Significance
<u> </u>	Warning of general danger
4	Risk of electric shock
	Read operating instructions and safety notices!
	Wear ear protection.
	Wear protective gloves.
	Wear a dust mask.
	Wear protective goggles.
<u>(i)</u>	Tip or advice
	Handling instruction
Ø	diameter
<i>□\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	Max. chuck clamping
RECYCLE RERC Livian div	RBRC Seal - Lilon
	-Mains voltage (input) and frequency

Symbol	Significance
	Voltage (output)
[[->	Rapid charging max.
	Permitted temperature range
	Safety class II
(I)	Charging times
	Capacity
	Weight
V	volts
A	amperes
Hz	hertz
~ a.c.	alternating current
d.c.	direct current
n ₀	no load speed
rpm	revolutions per minute
min ⁻¹	revolutions per minute
°C	degree Celsius
min.	minutes
Ah	amps hour
kg	kilograms
Wh	watt hour

Safety instructions

General safety instructions

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.

1 WORK AREA SAFETY

- a. **Keep work area clean and well lit.** Cluttered and 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 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 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 condi-

- **tions.** 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 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.

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 mask, 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 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.
- h. Do not let familiarity gained from freuquent use of tools allow you to become complacent and ignore, tool safety principles. A careless action can cause severe injury within a fraction of a second.

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 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.
- h. Keep handles dry, clean and free from oil and grease. Slippery handles do not allow for safe handling and control of the tool in unexpected situations.

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 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 ter-

minal 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.
- e. Do not use a battery pack or tool that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
- f. Do not expose a battery pack or tool to fire or excessive temperature. Exposure to fire or temperature above 130 °C may cause explosion.

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.
- b. Never service damaged battery packs. Service of battery packs should only be performed by the manufacturer or authorized service providers.

Machine-specific safety notices for cordless drills

- Hold power tool by insulated gripping surfaces, when performing an operation where the cutting accessory or fastener may contact hidden wiring. Cutting accessory or fasteners contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- Use suitable detectors to determine if utility lines are hidden in the work area or call the local utility company for assistance. Contact with electric lines can lead to fire and electric shock. Damaging a gas line can lead to explosion. Penetrating a water line causes property damage or may cause an electric shock.









- Wear suitable protection: such as ear protection, safety goggles, a dust mask for work which generates dust, and protective gloves when working with raw materials and when changing tools.



CAUTION! Power tool can block and cause **sudden kickback!** Switch off immediately!

Do not lock the on/off switch permanently!

Battery pack and charger safety instruc-

- This charger can be operated by persons with reduced physical, sensory or mental capabilities or a lack of practical experience and knowledge, provided they are supervised or have been instructed to use the machine safely and understand the dangers of machine operation. Children are not allowed use or play with the ma-
- Do not open the battery pack or the charger!
- Prevent metal parts (e.g. metal chips) or fluids from entering the charger!
- Do not use power adapters or battery packs form other manufacturers to operate the cordless power tool. Do not use any charger from other manufacturers for charging the battery pack. The use of impermissible accessories may result in electric shock and / or serious accidents!
- Protect the battery pack from excessive heat > 50 °C or constant heat sources such as sunlight or naked flames!
- Never use water to extinguish burning li-ion battery packs! Use sand or a fire blanket.
- Check the plug and the cable regularly and should either become damaged, in order to avoid a hazard, have them replaced by an authorised after-sales service workshop.
- Always pull the mains plug out of the socket when the charger is not in use.

Festool charger

NOTE: This equipment has been tested and found to comply with the limits for a Class 8 digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Health hazard by dust

WARNING! Various dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known (to the State of California) to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- lead from lead-based paints.
- crystalline silica from bricks and cement and

- other masonry products, and
- arsenic and chromium from chemically treated lumber.



The risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with ap-

proved safety equipment, such as dust masks that are specially designed to filter out microscopic particles. Wash hands after handling.

\rightarrow \lambda

WARNING

TO REDUCE THE RISK OF INJURY, USER MUST READ INSTRUCTION MANUAL.

Intended use

Cordless drill suitable

- for screwing in and tightening screws,
- for drilling in metal, wood, plastics and similar materials.

Not intended for clamping tools other than drills and drill bits, e.g. compass saws, stirring rods, metal brushes.

Charger MXC suitable

- for charging the listed battery packs.
- only for indoor use.



The user is liable for improper or non-intended use; this also includes continuous industrial operation.

Technical data

	TXS
	10.8 V
1st gear	0 - 430 rpm
2nd gear	0 - 1300 rpm
	10/ 16 Nm
	0.3 - 3.4 Nm
	1 - 10 mm
	12/ 8 mm
е	1/4 ''

Cordless drills	TXS
Weight without battery pack with	0.7 kg
Centrotec	

* Speed specifications with fully charged battery pack.



Further technical data on the charger and the supplied battery pack can be found on the fold-out page.

Functional description

The pictures for the functional description are on a fold-out page at the beginning of the instruction manual. While reading the manual you can fold out the page for comparison and quick reference.

- [1-1] Drilling symbol
- [1-2] Torque thumbwheel
- [1-3] Torque/drilling position marking
- [1-4] Gear switch
- [1-5] Right/left switch

- [1-6] On/Off switch
- [1-7] Belt clip
- [1-8] Insulated gripping surfaces (grey shaded area)
- [1-9] Button for releasing the battery pack
- [1-10] LED lamp with capacity indicator
- **[1-11]** Bit store

Operation

Changing the battery pack [2]

① Battery pack is ready for use immediately upon delivery and can be charged at any time.

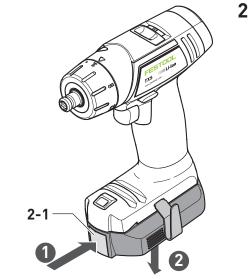


Removing the battery pack

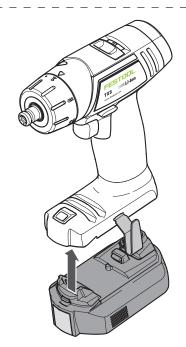
- ▶ Press and hold the button [2-1].
- ▶ Slide the battery pack downwards to remove.

Inserting the battery pack

► Slide the battery pack upwards into the machine like shown in [2] until it engages.



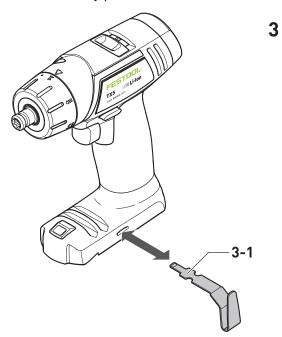




Changing side of the belt clip

Fix the belt clip [3-1] on the right or on the left side, depending on which side you prefer to clip the cordless drill.

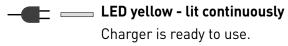
- ► Remove the battery pack [2].
- ► Remove the belt clip [3-1].
- ► Insert the belt clip on the designated side.
- ▶ Insert the battery pack [2].



Charging the battery pack [4]

- ➤ To charge the battery pack, put it on the retainer [4-1] on the charger.
- ► To remove, press and hold the button [4-2] and pull off the charged battery pack.

The LED **[4-3]** on the charger indicates the respective operating status of the charger.



Charging battery pack at maximum rate.

→ LED green - flashing slowly

Charging battery pack to 80% and with reduced current.

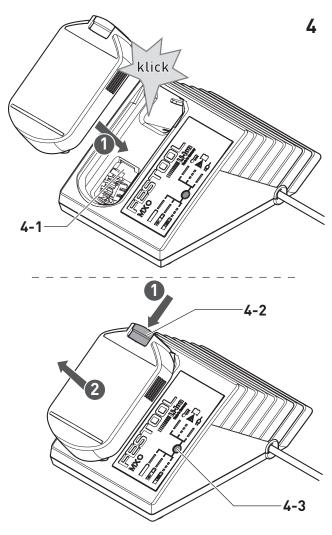
Charging process is charged.

___ LED red - flashing

General fault indicator, e.g.
incomplete contact, short circuit,
defective battery pack, etc.

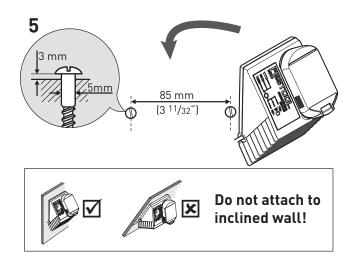


Battery temperature is outside permissible limit values (0 $^{\circ}$ C to 55 $^{\circ}$ C).



Charger wall mount

The charger MXC has two elongated holes on its back. It can be mounted on a wall using two screws (e.g. round head or flat head screw with shank diameter of 5 mm) (see Fig. [5]).



Settings

Consider the pictures on the fold-out page.



CAUTION

Risk of injury

► Always switch off the power tool before adjusting settings!

Changing direction of rotation [1-5]

- Switch to the left = clockwise rotation
- Switch to the right = counterclockwise rotation

Changing gear [1-4]

- Gear switch forwards (digit 1 visible) = 1st gear
- Gear switch to rear (digit 2 visible) = 2nd gear

Adjusting torque

By turning the torque thumbwheel [1-2] the required torque can be adjusted. The arrow [1-3] aligns with the adjusted state.

Drilling

Turn the torque thumbwheel [1-2] so that its marking [1-3] faces the drilling symbol [1-1]. Maximum torque is set in this position.

Fastening

Adjust the torque accordingly at the torque thumb-wheel [1-2]:

Position 1 = low torque

Position 12 = high torque

The machine switches off when the present torque is reached. The machine only continues running when the on/off switch [1-6] is released and pressed again.

Tool holder, attachments



WARNING

Risk of injury

► Always disconnect the battery pack before performing any type of work on the machine!





CAUTION

Hot and sharp tools

Risk of injury

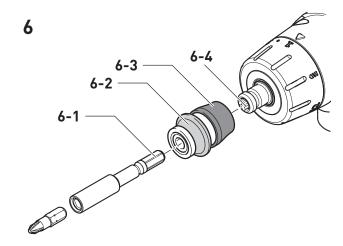
- ▶ Do not use insert tools that are blunt or defective.
- ► Wear protective gloves.

Tool chuck CENTROTEC WH-CE

The tool chuck CENTROTEC WH-CE allows you to change tools with a CENTROTEC shank in a matter of seconds.

① Always use a CENTROTEC tool chuck to clamp CENTROTEC tools.

Attaching the CENTROTEC



- ▶ Pull the release ring [6-3] forwards.
- ▶ Attach the tool chuck to the drill spindle [6-4].
- ► Release the ring [6-3].

Detaching the CENTROTEC

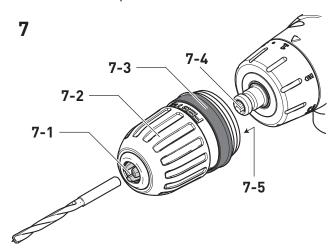
- ▶ Pull the release ring [6-3] forwards.
- ► Remove the tool chuck.

Changing tools

- ▶ Pull back the green release ring [6-2] to attach or detach tools with a CENTROTEC shank.
- When attaching the tool, rotate until the hexagon shank [6-1] engages in the hexagon holder on the drill spindle.
- ► Release the ring [6-2].

Chuck BF-FX 10

The chuck BF-FX 10 is used for clamping drill and screwdriver bits up to 10 mm chuck diameter.



Attaching the chuck BF-FX 10

- Attach the chuck to the drill spindle [7-4].
- ▶ Pull the release ring [7-3] forwards.
- ► Turn until the hexagon pin [7-5] on the chuck engages in the hexagon socket holder in the drill spindle.
- ▶ Push the chuck all the way onto the drill spindle.
- ► Release the ring [7-3].

Detaching the chuck BF-FX 10

- ▶ Pull the release ring [7-3] forwards.
- Remove the chuck.

Changing tools

► Turn the clamping sleeve [7-2] anticlockwise to

- open the clamping jaws [7-1].
- ① The arrow on the spindle indicates the opening direction.
- Insert the tool into the chuck.

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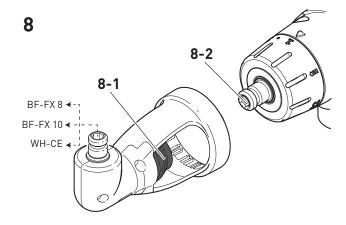
CAUTION

Risk of injury

- ► Clamp the tool centrally in the chuck!
- ► Turn the clamping sleeve [7-2] clockwise to clamp the tool.

Right angle chuck XS-AS

The right angle chuck XS-AS (partly accessories) allows you to work (drill, fasten) vertically in relation to the longitudinal axis on the machine.



Fitting the right angle chuck XS-AS

- ▶ Pull the green release ring [8-1] forwards.
- ► Fit the right angle chuck to the drill spindle [8-2].
- ► Turn the chuck until is engages in the required position.
- You can engage the right angle chuck in 16 different positions.
- ▶ Release the ring [8-1].

Removing the right angle chuck XS-AS

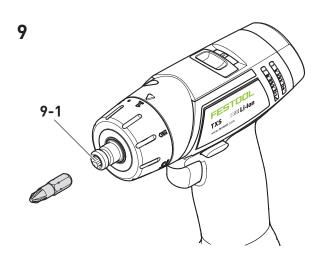
- ▶ Pull the green release ring [8-1] forwards.
- Remove the right angle chuck.

Changing tools

The tools can be fixed on the right angle chuck via CENTROTEC tool chuck, the chuck BP-XS 8 or BP-XS 10 or directly into the drill spindle.

Tool holder in the drill spindle

Bits can be inserted directly in the hexagon socket holder on the drill spindle **[9-1]** to shorten and reduce the weight of the machine.



Working with the power tool

Consider the pictures on the fold-out page.



WARNING

Risk of injury

► Always secure the workpiece in such a manner that it cannot move while being machined.

On/Off switch [1-6]

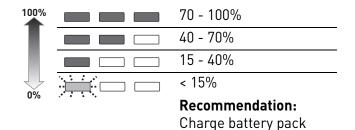
Press = ON, release = OFF

① The speed of the machine depends on how far the on/off switch is pressed in.

LED lamp with capacity indicator

The LED bulb [1-10] lights up when the ON/OFF switch is pressed [1-6].

After releasing the ON/OFF switch [1-6] the capacity indicator on the LED lamp [1-10] displays the state of charge of the battery pack for a few seconds:



before further use. Bit store [1-11]

Magnetic, for storing bits and bit holders.

Warning signals

Power tool shuts down, capacity indicator flashes: Battery pack is empty.

► Change the battery pack.

Power tool shuts down, capacity indicator does not flash: Power tool is overheating or has been overloaded.

- ► Apply a lesser load to power tool.
- ▶ Allow power tool to cool down.

Service and maintenance



WARNING

Any maintenance or repair work that requires opening of the motor or gear housing should only be carried out by an authorised Customer Service Centre (name supplied by your dealer)!

► Maintenance or repair work carried out by an unauthorised person can lead to the wrong connection of the power cord or other components, which in turn can lead to accidents with serious consequences.



Customer service and repair only through manufacturer or service workshops: Please find the nearest address at: www.festoolusa.com/service



Use only original Festool spare parts! Order No. at: www.festoolusa.com/service

Note the following information:

- Keep the ventilation slits on the machine free and clean to ensure adequate cooling.
- Keep the contacts on the machine, charger and battery pack clean.

Information on battery packs

- Store in a cool, dry place at a temperature between 5 °C and 25 °C.
- Protect battery packs from moisture, water and heat.
- Do not leave empty battery packs in a charger disconnected from the mains power supply for longer than one month. Danger of deep discharge!
- If you intend to store li-ion battery packs for longer periods without use, you should charge them to 40 % capacity (approx. 15 min charging time).
- To avoid short circuits the battery pack should be stored in the packaging supplied.

Accessories

Use only original Festool accessories and Festool consumable material intended for this machine. These components are designed specifically for this machine. Using accessories and consumable material from other suppliers will most likely affect the quality of your results and limit warranty claims. Machine wear or your own personal workload may increase depending on the application. Protect yourself and your machine, and preserve your warranty claims by always using original Festool accessories and Festool consumable material!

Only use original Festool sanding and polishing pads. Low-quality sanding and polishing pads may cause serious machine imbalance that decreases the quality of the working results and increases machine wear.

The order numbers of the accessories and tools can be found in the Festool catalogue or on the Internet under "www.festoolusa.com".

Systainer

Many Festool products are shipped in a unique system container, called "Systainer". This provides

protection and storage for the tool and accessories. The Systainers are stackable and can be interlocked together. They also can be interlocked atop Festool CT dust extractors.

To open the Systainer



Turn the T-loc [10-1] to this position.

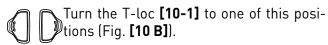
To lock the Systainer



Turn the T-loc [10-1] to this position.

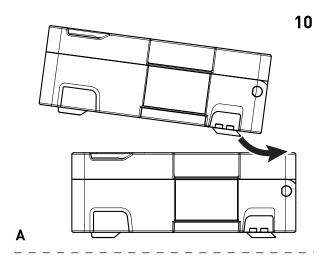
To connect two Systainers

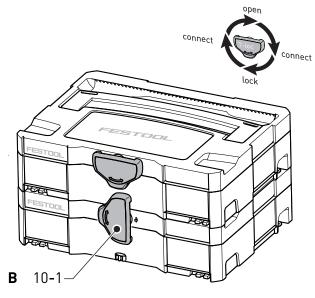
Place one Systainer on the top of the other (Fig. [10 A]).



The Systainers are connected and locked.

A new generation Systainer is connectable on top of a previous generation Systainer by the four latches of the previous Systainer.





Environment

Do not dispose of the device as domestic waste! Dispose of machines, accessories and packaging at an environmentally responsible recycling centre. Observe the respective national regulations.

Battery Disposal



WARNING

Risk of fire or injury

- ▶ Do not attempt to disassemble the battery or remove any component projecting from the battery terminals
- ► Prior to disposal, protect exposed terminals with heavy insulating tape to prevent shorting.

The RBRCTM Seal





The RBRCTM (Rechargeable Battery Recycling Corporation) Seal on nickel cadmium

(NiCd), nickel metal hydride (NiMH) or lithium-ion (Lilon) batteries (or battery packs) indicates Festool is voluntarily participating in an industry program to collect and recycle these batteries at the end of their useful life, when taken out of service in the United States or Canada. In some areas, it is illegal to place spent batteries in the trash or municipal solid waste stream and RBRC Program provides an environmentally conscious alternative.

Please call 1-800-822-8837 for information on battery recycling and disposal bans/restrictions in your area, or return your batteries to the Festool Service Center for recycling. Help protect our environment and conserve natural resources!

Transport

The lithium-ion batteries are subject to the requirements of the legislation on hazardous goods. A liion battery pack alone falls below the applicable limit value and certified as per UN manual ST/SG/AC.10/11/rev. 3 part III, subsection 38.3. However, dangerous goods regulations may apply when several battery packs are transported For shipping by third parties (e.g. air transport or freight forwarding company) special requirements with regard to

packaging and labelling must be observed. For the preparation of the package an expert on hazardous goods must be consulted. Please observe any further national regulations.

Only return the battery pack if the housing is undamaged. Tape over the exposed contacts and wrap the battery pack so that it cannot move inside the packaging.