



HILTI SF 4-A22 CommGear Instruction Manual

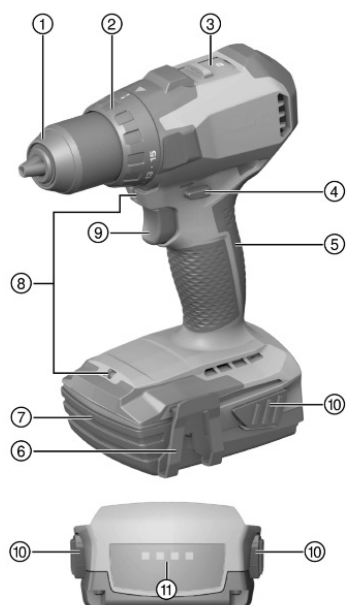
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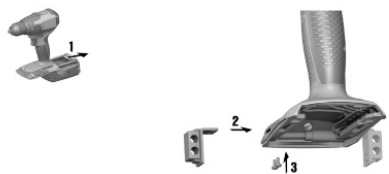
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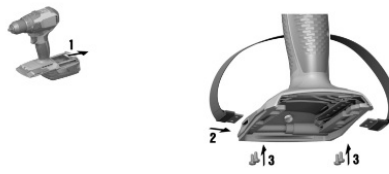
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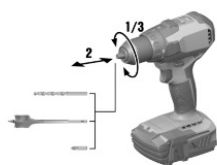
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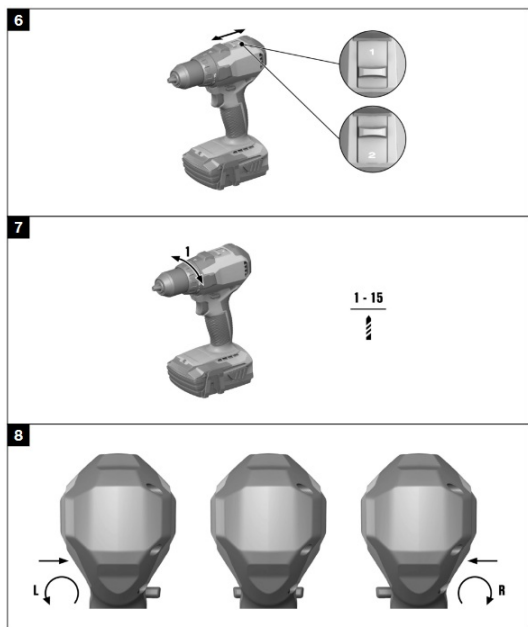


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Original operating instructions

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Information about the operating instructions

About these operating instructions

- **Warning!** Read and understand all accompanying documentation, including but not limited to instructions, safety warnings, illustrations, and specifications provided with this product. Familiarize yourself with all the

instructions, safety warnings, illustrations, specifications, components, and functions of the product before use. Failure to do so may result in electric shock, fire, and/or serious injury. Save all warnings and instructions for future reference.

-  products are designed for professional users and only trained, authorized personnel are permitted to operate, service and maintain the products. This personnel must be specifically informed about the possible hazards. The product and its ancillary equipment can present hazards if used incorrectly by untrained personnel or if used not in accordance with the intended use.
- The accompanying documentation corresponds to the current state of the art at the time of printing. Please always check for the latest version on the product's page on Hilti's website. To do this, follow the link or scan the QR code in this documentation, marked with the symbol .
- Ensure that these operating instructions are with the product when it is given to other persons.

Explanation of symbols used

Warnings

Warnings alert persons to hazards that occur when handling or using the product. The following signal words are used:

DANGER

DANGER !

► Draws attention to imminent danger that will lead to serious personal injury or fatality.

WARNING

WARNING !

► Draws attention to a potential threat of danger that can lead to serious injury or fatality.





CAUTION

CAUTION !

► Draws attention to a potentially dangerous situation that could lead to personal injury or damage to the equipment or other property.




Symbols in the documentation

The following symbols are used in this document:

	Read the operating instructions before use.
	Instructions for use and other useful information
	Dealing with recyclable materials
	Do not dispose of electric equipment and batteries as household waste

Symbols in the illustrations








The following symbols are used in illustrations:

	These numbers refer to the corresponding illustrations found at the beginning of these operating instructions
3	The numbering reflects the sequence of operations shown in the illustrations and may deviate from the steps described in the text
	Item reference numbers are used in the overview illustrations and refer to the numbers used in the product overview section
	This symbol is intended to draw special attention to certain points when handling the product.


Product-dependent symbols

Symbols on the product

The following symbols are used on the product:

n_0	Rated speed under no load
/min	Revolutions per minute
	Direct current (DC)
	Screwdriving
	Drilling
	The power tool supports near-field communication (NFC) technology, which is compatible with iOS and Android platforms.
	Hilti Li-ion battery type series used. Observe the information given in the section headed Intended use .
Li-Ion	Li-ion battery
	Never use the battery as a striking tool.
	Do not drop the battery. Never use a battery that has suffered an impact or is damaged in any other way.

Product information

 products are designed for professional users and only trained, authorized personnel are permitted to operate, service and maintain the products. This personnel must be specifically informed about the possible hazards. The product and its ancillary equipment can present hazards if used incorrectly by untrained personnel or if used not in accordance with the intended use.

The type designation and serial number are printed on the rating plate.

► Write down the serial number in the table below. You will be required to state the product details when contacting Hilti Service or your local Hilti organization to inquire about the product.

Product information

Type:	SF 4-A22
Generation:	01
Serial no.:	

Declaration of conformity

We declare, on our sole responsibility, that the product described here complies with the applicable directives and standards. A copy of the declaration issued by the certification department can be found at the end of this documentation.

The technical documentation is filed here:

Hilti Entwicklungsgesellschaft mbH | Tool Certification | Hiltistrasse 6 | 86916 Kaufering, Germany

Safety

General power tool safety warnings

WARNING Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below 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.

Work area safety

- ▶ **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- ▶ **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.
- ▶ **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

Electrical safety

- ▶ **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.
- ▶ **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.
- ▶ **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- ▶ **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.
- ▶ **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.
- ▶ **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.

Personal safety

- ▶ **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.
- ▶ **Use personal protective equipment. Always wear eye protection.** Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
- ▶ **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.
- ▶ **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.
- ▶ **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- ▶ **Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
- ▶ **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.

► **Do not let familiarity gained from frequent 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.

Power tool use and care

► **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.

► **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.

► **Disconnect the plug from the power source and/or remove the battery pack, if detachable, 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.

► **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.

► **Maintain power tools and accessories. 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.

► **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

► **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.

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

Battery tool use and care

► **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.

► **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.

► **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 terminal to another.** Shorting the battery terminals together may cause burns or a fire.

► **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.

► **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.

► **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130° C (265 °F) may cause explosion.

► **Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.** Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

Service

► **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.

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

Drill safety warnings

Safety instructions for all operations

► **Hold the power tool by insulated gripping surfaces, when performing an operation where the cutting accessory or fasteners 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.

Safety instructions when using long drill bits

- ▶ **Never operate at higher speed than the maximum speed rating of the drill bit.** At higher speeds, the bit is likely to bend if allowed to rotate freely without contacting the workpiece, resulting in personal injury.
- ▶ **Always start drilling at low speed and with the bit tip in contact with the workpiece.** At higher speeds, the bit is likely to bend if allowed to rotate freely without contacting the workpiece, resulting in personal injury.
- ▶ **Apply pressure only in direct line with the bit and do not apply excessive pressure.** Bits can bend causing breakage or loss of control, resulting in personal injury.

Additional safety instructions

- ▶ Use the product and accessories only when they are in perfect working order.
- ▶ Never tamper with or modify the product or accessories in any way.
- ▶ Before beginning work, check the working area for concealed electric cables or gas and water pipes. External metal parts of the product could give you an electric shock or cause an explosion if you accidentally damage an electric cable or a gas or water pipe.
- ▶ Keep the air vents clear at all times. Risk of burn injuries due to blocked air vents!
- ▶ Avoid touching rotating parts – risk of injury!
- ▶ Wear eye protection, a hard hat and ear protection while the product is in use.
- ▶ Wear protective gloves when changing the accessory tool. Touching the accessory tool can result in cuts and burns.
- ▶ Wear eye protection. Flying fragments present a risk of injury to the body and eyes.
- ▶ Dust produced by grinding, sanding, cutting and drilling can contain dangerous chemicals. Some examples are: lead or lead-based paints; brick, concrete and other masonry products, natural stone and other products containing silicates; certain types of wood, such as oak, beech and chemically treated wood; asbestos or materials that contain asbestos. Determine the exposure of the operator and bystanders by means of the hazard classification of the materials to be worked. Implement the necessary measures to restrict exposure to a safe level, for example by the use of a dust collection system or by the wearing of suitable respiratory protection. The general measures for reducing exposure include:
 - ▶ working in an area that is well ventilated,
 - ▶ avoidance of prolonged contact with dust,
 - ▶ directing dust away from the face and body,
 - ▶ wearing protective clothing and washing exposed areas of the skin with water and soap.
- ▶ Take frequent breaks and do physical exercises to improve the blood circulation in your fingers. High vibration during long periods of work can lead to disorders of the blood vessels and nervous system in the fingers, hands and wrists.
- ▶ Do not look directly into the light source (LED) of the product and do not aim the beam at other persons' faces. Risk of dazzling or eye damage.
- ▶ Switch the product on only after you have brought it to the working position.
- ▶ Wait until the product has come to a complete stop before you lay it down.
- ▶ Risk of injury by falling tools and/or accessories. Before starting work, check that the battery and installed accessories are secure.

Careful handling and use of batteries

- ▶ Observe the special guidelines applicable to the transport, storage and use of lithium-ion batteries.
- ▶ Do not expose batteries to high temperatures, direct sunlight or fire.
- ▶ Do not disassemble, crush or incinerate batteries and do not subject them to temperatures over 80 °C (176 °F).
- ▶ Do not use or charge batteries that have suffered mechanical impact, have been dropped from a height or show signs of damage. In this case, always contact your **Hilti Service**.
- ▶ If the battery is too hot to touch it may be defective. Put the battery in a place where it is clearly visible and where there is no risk of fire, at an adequate distance from flammable materials. Allow the battery to cool down. If it is still too hot to touch after an hour, the battery is faulty. Contact **Hilti Service**.

Description

Product overview 1

1. Keyless chuck
2. Torque and operating mode selector ring
3. Gear selector switch
4. Forward/reverse switch with switch-on interlock
5. Grip
6. Belt hook (optional)
7. Battery
8. LED to illuminate the working area
9. Control switch (with electronic speed control)
10. Battery release button
11. Battery state of charge indicator


Intended use

The product described is a hand-held cordless drill/driver. It is designed for driving and removing screws, for drilling in metal, wood and plastic.

- ▶ Use only **Hilti** lithiumion batteries of the B 22 series with this product.
- ▶ Use only **Hilti**-approved battery chargers to charge these batteries. More information is available from your **Hilti Store** or from www.hilti.group.


Items supplied

Drill / driver, operating instructions.

 Other system products approved for use with this product can be found at your local **Hilti Store** or at: www.hilti.group

ATC

The power tool is equipped with the ATC (Active Torque Control) quick-acting electronic cut-out. If the accessory tool sticks or stalls, the power tool will suddenly pivot about its own axis in the opposite direction. ATC detects this sudden pivoting movement of the power tool and switches the tool off immediately.

 For ATC to function correctly, the power tool must be free to pivot. After the power tool has cut out due to ATC, switch it back on again by releasing the control switch and then pressing the switch again.

Lithiumion battery status display

The Li-ion battery state of charge and malfunctions of the power tool are indicated by the display on the Li-ion battery. The Li-ion battery state of charge is displayed after pressing one of the two battery release buttons.


Status	Meaning
4 LEDs light.	State of charge: 75 % to 100 %
3 LEDs light.	State of charge: 50 % to 75 %
2 LEDs light.	State of charge: 25 % to 50 %
1 LED lights.	State of charge: 10 % to 25 %
1 LED blinks.	State of charge: < 10 %
1 LED flashes, the power tool is not in working order.	The battery has overheated or is completely discharged.
4 LEDs flash, the power tool is not in working order.	The power tool is overloaded or has overheated.

i Battery state of charge cannot be displayed while the control switch is pressed and for up to 5 seconds after releasing the control switch.

If the battery display LEDs blink, please observe the instructions given in the Troubleshooting section.

Technical data

Technical data

		SF 4-A22
Rated voltage		21.6 V
Weight including battery B22/8.0		5.29 lb (2.4 kg)
Speed	1st gear	0 /min ... 610 /min
	2nd gear	0 /min ... 2,100 /min
Torque range (15 settings)		1.11 ftlb _f ... 7.4 ftlb _f (1.5 Nm ... 10 Nm)
Torque (soft joint) 		≤ 26.6 ftlb _f (≤ 36 Nm)
Ambient temperature for operation		1.4 °F ... 140.0 °F (-17 °C ... 60 °C)
Storage temperature		-4.0 °F ... 158.0 °F (-20 °C ... 70 °C)

Accessory tools – permissible diameters

	SF 4-A22
Keyless chuck clamping range	1.5 mm ... 13 mm
Keyless chuck clamping range	1/16 in ... 1/2 in
Ø drill bit (softwood)	1.5 mm ... 25 mm
Ø drill bit (softwood)	1/16 in ... 1 in
Ø drill bit (hardwood)	1.5 mm ... 14 mm
Ø drill bit (hardwood)	1/16 in ... 35/64 in
Ø drill bit (metal)	1.5 mm ... 10 mm
Ø drill bit (metal)	1/16 in ... 25/64 in

Battery

Battery operating voltage	21.6 V
Ambient temperature for operation	1.4 °F ... 140.0 °F (-17 °C ... 60 °C)
Storage temperature	-4.0 °F ... 104.0 °F (-20 °C ... 40 °C)
Battery charging starting temperature	14.0 °F ... 113.0 °F (-10 °C ... 45 °C)

Operation

Charging the battery

1. Before charging the battery, read the operating instructions for the charger.
2. Make sure that the contacts on the battery and the contacts on the charger are clean and dry.
3. Use an approved charger to charge the battery.

Inserting the battery

WARNING

Risk of injury by short circuit or falling battery!

- Before inserting the battery, make sure that the contacts on the battery and the contacts on the product are free of foreign matter.
- Make sure that the battery always engages correctly.

1. Charge the battery fully before using it for the first time.
2. Push the battery into the product until it engages with an audible click.
3. Check that the battery is seated securely.

Removing the battery


1. Press the battery release buttons.
2. Remove the battery from the tool.

Fitting the belt hook (optional) 2

WARNING

Risk of injury. A falling power tool may present a risk of injury to yourself and others.

► Check that the belt hook is fitted securely before beginning work.

 The belt hook allows the power tool to be attached to a belt worn by the operator. The belt hook can be fitted to allow attachment on the left or right side of the body.

1. Remove the battery.
2. Insert the belt hook into the opening provided at the base of the product.
3. Secure the belt hook with the two screws.
4. Insert the battery.

Installing Hilti bit holder (optional) 3


1. Remove the battery.
2. Insert the bit holder into either the left or right opening provided at the base of the product.
3. Secure the bit holder with the two screws.
4. Insert the battery.

Hilti Installing the retaining strap (optional) 4

ATTENTION

Damage to the product and / or the retaining leash. Incorrect handling can result in damage to the product and/or retaining leash.

► Do not use a metal chain as a retaining leash. Do not use a retaining leash with a length of more than 2,0 m (6 ft).

 To avoid damage and injury, when working at a height it is advisable to use the Hilti retaining strap. The retaining strap allows a securing cord or lanyard to be attached. When working with the product, you must comply with national regulations for working at heights.

1. Remove the battery.
2. Insert the two tabs on the retaining strap into the slots on each side of the base.
3. Secure the retaining strap with the screws supplied.
4. Insert the battery.

Fitting the accessory tool 5

1. Open the keyless chuck.
2. Insert the accessory tool into the tool holder.
3. Tighten the keyless chuck.
4. Check that the accessory tool is held securely.

Selecting the gear 6



The gear selector switch can be operated only when the motor is not running.

- ▶ Select the gear.

Setting the torque 7

- ▶ Set the desired torque.



The torque is limited only when the power tool is set to screwdriving mode .

Setting forward or reverse rotation 8




An interlock prevents switching while the motor is running.


The control switch is locked when the forward/reverse switch is in the middle position (switch-on interlock).

- ▶ Set the forward/reverse switch to the desired direction of rotation.

Drilling

1. Set the function selector ring to the “drilling” position .
2. Set the forward/reverse switch to the “forward” position.

Screwdriving

1. Set the function selector ring to the “screwdriving” position .
2. Set the torque setting ring to the desired torque.
3. Set the forward/reverse switch to the desired direction of rotation.

Care and maintenance

Care and maintenance

WARNING

Risk of injury with battery inserted !

- ▶ Always remove the battery before carrying out care and maintenance tasks!

Care of the product

- Carefully remove stubborn dirt.
- Carefully clean the air vents, if present, with a dry, soft brush.
- Use only a slightly damp cloth to clean the housing. Do not use cleaning agents containing silicone as these can attack the plastic parts.
- Use a dry, clean cloth to clean the contacts of the product.

Care of the Li-ion batteries

- Never use a battery with clogged air vents. Clean the air vents carefully using a dry, soft brush.

- Avoid unnecessary exposure of the battery to dust and dirt. Never expose the battery to high levels of moisture (e.g. by being dipped in water or left in the rain).

If a battery has been soaked by moisture, treat it as a damaged battery. Isolate it in a non-flammable container and consult **Hilti** Service.

- Keep the battery free of extraneous oil and grease. Do not permit dust or dirt to accumulate unnecessarily on the battery. Clean the battery with a dry, soft brush or a clean, dry cloth. Do not use cleaning agents containing silicone as these can attack the plastic parts.

Do not touch the contacts of the battery and do not remove the factory- applied grease from the contacts.

- Use only a slightly damp cloth to clean the housing. Do not use cleaning agents containing silicone as these can attack the plastic parts.

Maintenance

- Check all visible parts and controls for signs of damage at regular intervals and make sure that they all function correctly.
- Do not use the product if signs of damage are found or if parts malfunction. Immediately have the product repaired by **Hilti** Service.
- After cleaning and maintenance, install all guards and protective devices and check that they are in full working order.

To help ensure safe and reliable operation, use only genuine Hilti spare parts and consumables. Spare parts, consumables and accessories approved by **Hilti** for use with your product can be found at your **Hilti Store** or online at: www.hilti.group

Transport and storage

Transport and storage of cordless tools and batteries

Transport

CAUTION

Accidental starting during transport !

- ▶ Always transport your products with the batteries removed!
- ▶ Remove the battery/batteries.
- ▶ Never transport batteries loose and unprotected. During transport, batteries should be protected from excessive shock and vibration and isolated from any conductive materials or other batteries that may come in contact with the terminals and cause a short circuit. **Comply with the locally applicable regulations for transporting batteries.**
- ▶ Do not send batteries through the mail. Consult your shipper for instructions on how to ship undamaged batteries.
- ▶ Prior to each use and before and after prolonged transport, check the product and the batteries for damage.

Storage

WARNING

Accidental damage caused by defective or leaking batteries !

- ▶ Always store your products with the batteries removed!
- ▶ Store the product and the batteries in a cool and dry place. Comply with the temperature limits stated in the technical data.
- ▶ Do not store batteries on the charger. Always remove the battery from the charger when the charging operation has completed.
- ▶ Never leave batteries in direct sunlight, on sources of heat, or behind glass.

- Store the product and batteries where they cannot be accessed by children or unauthorized persons.
- Prior to each use and before and after prolonged storage, check the product and the batteries for damage.

Troubleshooting

If the trouble you are experiencing is not listed in this table or you are unable to remedy the problem by yourself, please contact **Hilti Service**.

Trouble or fault	Possible cause	Action to be taken
The power tool does not work.	The battery is not fully inserted.	► Push the battery in until it engages with an audible click.
	Battery is discharged.	► Change the battery and charge the empty battery.
The control switch cannot be pressed, or is stuck.	The forward/reverse switch is in the middle position.	► Push the forward/reverse switch to the left or right.
The battery runs down more quickly than usual.	Very low ambient temperature.	► Allow the battery to warm up slowly to room temperature.
The battery doesn't engage with an audible click.	The retaining lugs on the battery are dirty.	► Clean the retaining lugs and push the battery in until it engages. Contact Hilti Service if the problem persists.
The power tool or the battery becomes very warm.	Electrical fault.	► Switch the power tool off immediately, remove the battery, keep it under observation, allow it to cool down and contact Hilti Service .
	The tool is overloaded (application limits exceeded).	► Select a suitable power tool for the application.

Disposal

WARNING

Risk of injury due to incorrect disposal! Health hazards due to escaping gases or liquids.

- DO NOT send batteries through the mail!
- Cover the terminals with a non-conductive material (such as electrical tape) to prevent short circuiting.
- Dispose of your battery out of the reach of children.
- Dispose of the battery at your Hilti Store, or consult your local governmental garbage disposal or public health and safety resources for disposal instructions.



Most of the materials from which **Hilti** products are manufactured can be recycled. The materials must be correctly separated before they can be recycled. In many countries, your old tools, machines or appliances can be returned to **Hilti** for recycling. Ask **Hilti Service** or your Hilti sales representative for further information.



- Do not dispose of power tools, electronic equipment or batteries as household waste!

Manufacturer's warranty

- Please contact your local **Hilti** representative if you have questions about the warranty conditions.

This Product is Certified
Ce produit est homologué
Producto homologado por
Este producto está registrado



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Tel.: +423 234 21 11
Fax.: +423 234 29 65
www.hilti.com




<https://hilti.to/ontrackapp>



2253605

Hilti = registered trademark of Hilti Corp., Schaan

Documents / Resources

	HILTI SF 4-A22 CommGear [pdf] Instruction Manual SF 4-A22 CommGear, SF 4-A22, CommGear
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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