

HILTI

SIW 22T-A $1/2$ "

SIW 22T-A $3/4$ "

English

en



1 Information about the documentation




1.1 About this documentation

- Read this documentation before initial operation or use. This is a prerequisite for safe, trouble-free handling and use of the product.
- Observe the safety instructions and warnings in this documentation and on the product.
- Always keep the operating instructions with the product and make sure that the operating instructions are with the product when it is given to other persons.

1.2 Explanation of symbols used



1.2.1 Warnings

Warnings alert persons to hazards that may occur when handling or using the product. The following signal words are used in combination with a symbol:

	DANGER! Draws attention to an imminent hazard that will lead to serious personal injury or fatality.
	WARNING! Draws attention to a potential hazard that could lead to serious personal injury or fatality.
	CAUTION! Draws attention to a potentially dangerous situation that could lead to minor personal injury or material damage.





1.2.2 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

1.2.3 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.
	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 illustration and refer to the numbers used in the key in the product overview section.
	This symbol is intended to draw special attention to certain points when handling the product.

1.3 Product-dependent symbols

1.3.1 Symbols on the product

The following symbols are used on the product:

	Direct current (DC)
	Rated speed
	Revolutions per minute

1.4 Product information

Hilti products are designed for professional use and may be operated, serviced and maintained only by trained, authorized personnel. This personnel must be informed of any particular hazards that may be encountered. The product and its ancillary equipment may present hazards when used incorrectly by untrained personnel or when used not as directed.

The type designation and serial number are printed on the type identification 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	SIW 22T-A $\frac{1}{2}$ " SIW 22T-A $\frac{3}{4}$ "
Generation:	01
Serial no.:	

2 Safety

2.1 General safety precautions for power tools

⚠ WARNING! Read all safety precautions and other instructions. Failure to observe the safety precautions and other instructions may result in electric shock, fire and/or serious injury.

Keep all safety precautions and instructions for future reference.

Working area safety

- ▶ **Keep your working area clean and well lit.** Cluttered or dark working areas can cause accidents.
- ▶ **Do not operate the power tool 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 bystanders, children and visitors away while operating the power tool.** Distractions may cause you to lose control of the tool.

Electrical safety

- ▶ **Do not expose the power tool to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- ▶ **Do not allow your body to come into contact with grounded surfaces such as pipes, radiators, ovens and refrigerators.** There is an increased risk of electric shock if your body is grounded.

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 the power tool may result in serious personal injury.
- ▶ **Adopt the correct posture when working. Maintain proper footing and balance at all times.** This will allow you to control the power tool better, even in unexpected situations.
- ▶ **Wear your personal protective equipment and always wear protective glasses.** Depending on the type of power tool you are using and its purpose, wearing safety equipment such as a dust mask, slip-resistant safety shoes, a hard hat or hearing protection will reduce the risk of injury.
- ▶ **Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewelry or long hair may be caught in moving parts.
- ▶ **Avoid starting the tool accidentally. Make sure that the power tool is switched off before connecting it to the battery and before picking it up or carrying it.** Carrying power tools with your finger on the switch or plugging in power tools that are already switched on may cause accidents.
- ▶ **Remove accessory tools or wrenches before switching the power tool on.** An accessory tool or a wrench left attached to a rotating part of the power tool may cause personal injury.
- ▶ **If devices are provided for connecting dust extraction and collection equipment, make sure these are connected and used correctly.** The use of a dust extraction system can reduce dust-related hazards.

Using and handling the power tool

- ▶ **Do not overload the tool. Use the correct power tool for your application.** The correct power tool will do the job better and more safely within the performance range for which it is designed.
- ▶ **Do not use a power tool if it has a faulty on/off switch.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- ▶ **Remove the battery from the power tool before making any adjustments, changing accessories or storing the tool.** This precaution reduces the risk of the power tool starting accidentally.
- ▶ **Store power tools out of reach of children when not in use. Do not allow persons who are not familiar with the tool or these instructions to operate it.** Power tools are dangerous in the hands of untrained users.
- ▶ **Maintain power tools properly. Check that moving parts are in correct working order and do not jam, and check whether any parts are broken or so damaged that correct operation of the power tool cannot be guaranteed. If any parts are damaged, have these parts repaired before using the tool.** Many accidents are caused by poorly maintained power tools.

- ▶ **Keep cutting tools sharp and clean.** Properly maintained tools with sharp cutting edges are less likely to jam and are easier to control.

Using and handling the cordless power tool

- ▶ **Use only the specified batteries in the power tools.** Use of any other batteries may present a risk of injury and fire.
- ▶ **Recharge the batteries only with the chargers specified by the manufacturer.** A charger that is suitable for a certain type of battery may present a risk of fire when used with other types of battery.
- ▶ **When the battery is not in use, keep it away from other metal objects such as paper clips, coins, keys, nails, screws, or other small metal objects that could cause bridging between the terminals.** A short circuit between the battery terminals may cause burns or a fire.
- ▶ **Liquid may leak from the battery if used incorrectly. Avoid contact with this liquid.** Liquid leaking from the battery may cause skin irritation or burns. If contact accidentally occurs, rinse with water. Seek medical attention if the liquid comes into contact with the eyes.

2.2 Additional safety precautions for screwdrivers

Personal safety

- ▶ Only use the product if it is in perfect working order.
- ▶ Never tamper with or modify the tool in any way.
- ▶ Use the auxiliary grip supplied with the tool. Loss of control can cause personal injury.
- ▶ Always hold the power tool with both hands on the grips provided. Keep the grips clean and dry.
- ▶ Hold the power tool by the insulated gripping surfaces when performing an operation where the accessory tool may come into contact with concealed wiring. If the accessory tool comes into contact with a live wire, metal parts of the power tool may also become live, causing the operator to receive an electric shock.
- ▶ Avoid touching rotating parts – risk of injury!
- ▶ Wear suitable protective glasses, a hard hat, ear protection, protective gloves and light respiratory protection while using the tool.
- ▶ Wear protective gloves also when changing the accessory tool. Touching the accessory tool presents a risk of injury (cuts or burns).
- ▶ Wear eye protection. Flying fragments present a risk of injury to the body and eyes.
- ▶ Before starting work, check the hazard class of the dust that will be produced when working. Use an industrial vacuum cleaner with an officially approved protection class in compliance with the locally applicable dust protection regulations. Dust from materials such as lead-based paint, certain types of wood and concrete/masonry/stone containing quartz, minerals or metal may be harmful to health.
- ▶ Make sure that the working area is well ventilated and, where necessary, wear a respirator appropriate for the type of dust generated. Contact with or inhalation of dust may cause allergic reactions and/or respiratory or other diseases to the operator or bystanders. Certain kinds of dust, such as oak and beech dust, are classified as carcinogenic, especially in conjunction with additives for treating wood (chromate, wood preservative). Materials containing asbestos may only be handled by specialists.
- ▶ Take breaks between working and do physical exercises to improve the blood circulation in your fingers. Exposure to vibration during long periods of work can lead to disorders of the blood vessels and nervous system in the fingers, hands and wrists.

Electrical safety

- ▶ Before starting work, check the working area for concealed electric cables or gas and water pipes. If you damage an electric cable accidentally, external metal parts of the power tool may become live and present a risk of electric shock.

Careful handling and use of power tools

- ▶ Switch the power tool off immediately if the accessory tool jams. The power tool may go off course and veer to the side.
- ▶ Wait until the power tool has come to a complete stop before setting it down.

2.3 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 take apart, squash or incinerate batteries and do not subject them to temperatures over 80 °C.
- ▶ Do not attempt to charge or continue to use damaged batteries.

3 Description

3.1 Overview of the product



- ① 3/4" square drive with through hole
- ② Forward / reverse selector switch with safety lock
- ③ Control switch
- ④ Light to illuminate the work area
- ⑤ Belt hook (optional)
- ⑥ Battery
- ⑦ State of charge and fault display (Li-ion battery)
- ⑧ Release button with additional function (state of charge display activation)

3.2 Intended use

The product described is a hand-held cordless impact screwdriver. It is designed for tightening and releasing nuts, bolts, anchors and wood screws.

The impact screwdriver may be used only for applications that do not require a precise/specified torque. Failure to observe this point presents a risk of over-tightening and damage to the bolt, screw or workpiece.

- ▶ Use this product only with **Hilti** Li-ion batteries of the B18 / B22 series.
- ▶ Use only the **Hilti** battery chargers of the C4/36 series for these batteries.

3.3 Items supplied

Impact screwdriver/wrench, operating instructions.



Note

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

4 Technical data

4.1 Technical data

	SIW 22T-A 1/2
Rated voltage	21.6 V
Weight in accordance with EPTA procedure 01/2003	3.2 kg (7.1 lb)
Rated speed under no load	0 /min ... 2,000 /min

	SIW 22T-A 3/4
Rated voltage	21.6 V
Weight in accordance with EPTA procedure 01/2003	3 kg (7 lb)
Rated speed under no load	0 /min ... 2,000 /min

5 Operation

5.1 Fitting the belt hook (optional)



WARNING

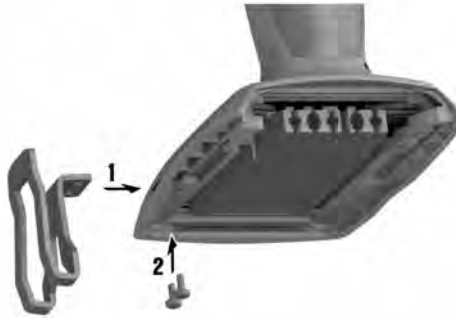
Risk of injury! Hazard presented by a falling power tool.

- ▶ 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.



Note

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.



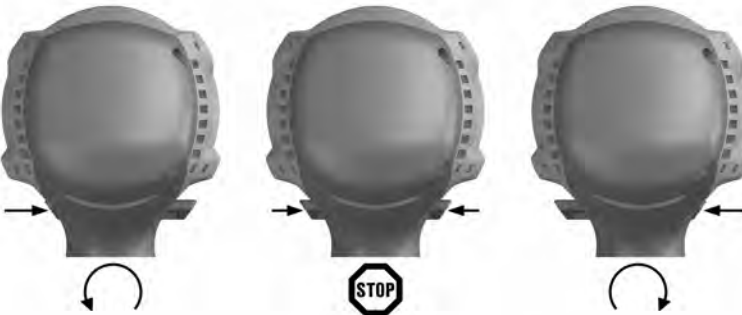
1. Disconnect the battery from the tool.
2. Fit the mounting plate into the guides provided.
3. Use the 2 screws to attach the belt hook and make sure that the screws are driven fully (countersunk head flush).

5.2 Setting forward or reverse rotation



Note

In the middle position, the forward / reverse selector switch serves as a safety lock.



- ▶ Set the forward / reverse selector switch to forward or reverse rotation.

5.3 Fitting the socket

SIW 22T-A 1/2"



CAUTION

Risk of injury! Risk of the tool falling.

- ▶ Use only accessory tools of the locking type, designed specifically for impact screwdrivers.
- ▶ Before use, make sure that the accessory tool is correctly fitted or positioned and securely engaged.
- ▶ Do not use worn or damaged accessory tools.



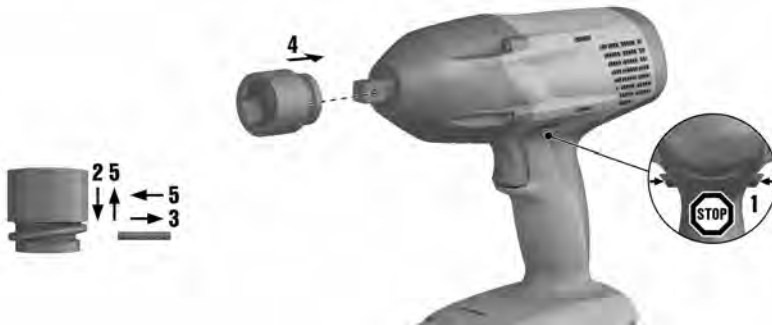
1. Set the forward/reverse switch to the middle position or remove the battery from the power tool.
2. Align the hole in the socket with the retention ball on the square drive.
3. Fit the locking ring on the socket.
 - ◀ The socket engages securely.

5.4 Fitting the socket

SIW 22T-A³/₄"

CAUTION
Risk of injury! Risk of the tool falling.

- ▶ Use only accessory tools of the locking type, designed specifically for impact screwdrivers.
- ▶ Before use, make sure that the accessory tool is correctly fitted or positioned and securely engaged.
- ▶ Do not use worn or damaged accessory tools.



1. Set the forward/reverse switch to the middle position or remove the battery from the power tool.
2. Remove the O-ring from the groove in the socket.
3. Place the socket on the square drive spindle of the tool.
4. Pull out the locking pin.
5. Place the socket on the square drive spindle of the tool.



Note

Take care to ensure that the holes in the square drive spindle and socket, into which the locking ring fits, are in alignment with each other.

6. Insert the locking pin in the socket.
7. Fit the O-ring on the socket.

5.5 Removing the socket

SIW 22T-A $\frac{1}{2}$ "



1. Set the forward/reverse switch to the middle position or remove the battery from the power tool.
2. Pull the accessory tool off the square drive.

5.6 Removing the socket

SIW 22T-A³/₄"



1. Set the forward/reverse switch to the middle position or remove the battery from the power tool.
2. Remove the O-ring from the groove in the socket.
3. Pull out the locking pin.
4. Remove the socket from the square drive spindle of the tool.
5. Fit the locking pin.
6. Fit the securing O-ring to the socket.

6 Care and maintenance

6.1 Care and maintenance of cordless tools



WARNING

Danger of electric shock! Carrying out care and maintenance while the battery is fitted presents a risk of serious physical injury and burning injury.

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

Care and maintenance of the tool

- Carefully remove any dirt that may be adhering to parts.

- Clean the air vents carefully with a dry brush.
- Use only a slightly damp cloth to clean the casing. Do not use cleaning agents containing silicone as these may attack the plastic parts.

Care of the lithium-ion batteries

- Keep the battery free from oil and grease.
- Use only a slightly damp cloth to clean the casing. Do not use cleaning agents containing silicone as these may attack the plastic parts.
- Avoid ingress of moisture.

Maintenance

- Check all visible parts and controls for signs of damage at regular intervals and make sure that they all function correctly.
- Do not operate the cordless tool if signs of damage are found or if parts malfunction. Have the tool repaired by **Hilti** Service immediately.
- After cleaning and maintenance, fit all guards or protective devices and check that they function correctly.



Note

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 the product can be found at your local **Hilti** Center or online at: www.hilti.com

7 Transport and storage

7.1 Transport and storage of cordless tools

Transport

CAUTION

Inadvertent starting during transport. Uncontrolled starting during transport may occur if the battery is fitted, thereby resulting in damage to the tool.

- ▶ Always remove the battery before transporting the tool.

- ▶ Remove the battery.
- ▶ Transport the tool and batteries individually packaged.
- ▶ Never transport batteries in bulk form (loose, unprotected).
- ▶ Check the tool and batteries for damage before use after long periods of transport.

Storage

CAUTION

Inadvertent damage caused by defective battery. A leaking battery may damage the tool.

- ▶ Always remove the battery before storing the tool.

- ▶ Store the tool and batteries in a place that is as cool and dry as possible.
- ▶ Never store batteries in direct sunlight, on heating units or behind a window pane.
- ▶ Store the tool and batteries in a place where they cannot be accessed by children or unauthorized persons.
- ▶ Check the tool and batteries for damage before use after long periods of storage.

8 Troubleshooting

8.1 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.

8.2 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 tool doesn't work.	The battery is not fitted correctly.	▶ The battery must be heard to engage. Remove the battery and refit it.
The tool doesn't work – 1 LED blinks.	1 LED blinks: The battery is empty.	▶ Remove the battery and charge it.
	The battery is too hot or too cold.	▶ Allow the battery to cool down / warm up to its working temperature.
The tool doesn't work – 4 LEDs blink.	The power tool was overloaded briefly.	▶ Release the control switch and then press it again.
The control switch cannot be pressed.	The forward / reverse selector switch is in the middle position.	▶ Push the forward / reverse switch to the left or right.
Speed of rotation drops considerably.	Low battery.	▶ Remove the battery and charge it.
The battery is not heard to engage.	The retaining lugs on the battery are dirty.	▶ Clean the retaining lugs.
The battery runs low more quickly than usual.	Very low ambient temperature.	▶ Warm up the battery slowly to room temperature.
The tool or the battery gets very hot.	The tool is overloaded (application limits exceeded).	▶ Intense heat is produced.


9 Disposal



WARNING

Risk of injury. Hazards presented by improper disposal.

- ▶ Improper disposal of the equipment may have the following consequences: The burning of plastic components generates toxic fumes which may present a health hazard. Batteries may explode if damaged or exposed to very high temperatures, causing poisoning, burns, acid burns or environmental pollution. Careless disposal may permit unauthorized and improper use of the equipment. This may result in serious personal injury, injury to third parties and pollution of the environment.
- ▶ Dispose of defective batteries right away. Keep them out of reach of children. Do not disassemble or incinerate the batteries.
- ▶ Batteries that have reached the end of their life must be disposed of in accordance with national regulations or returned to **Hilti**.

 Most of the materials from which **Hilti** tools and appliances 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 representative for further information.

10 Manufacturer's warranty

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

HILTI

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