

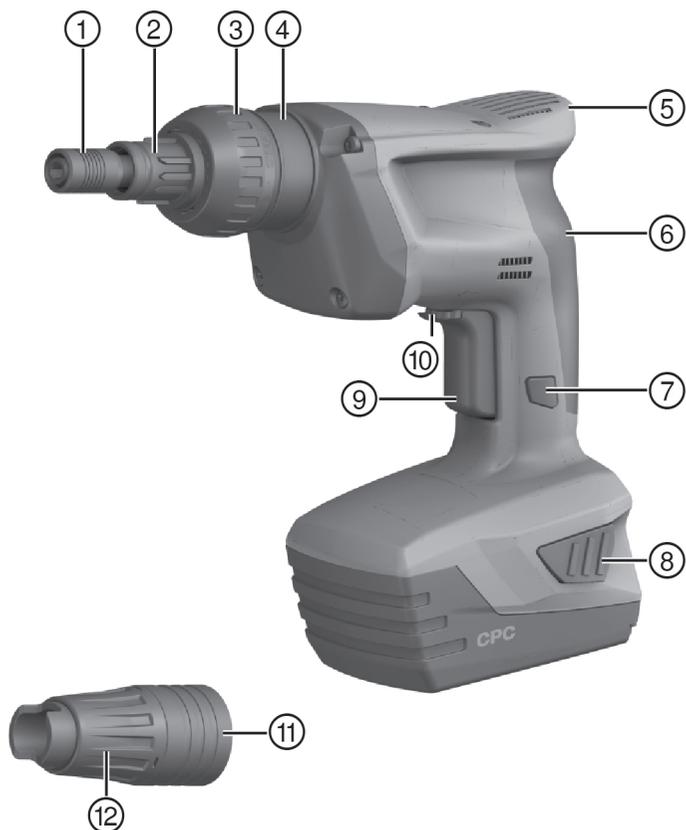
# HILTI

ST 1800-A18

English  
Français  
Español  
Português

en  
fr  
es  
pt





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



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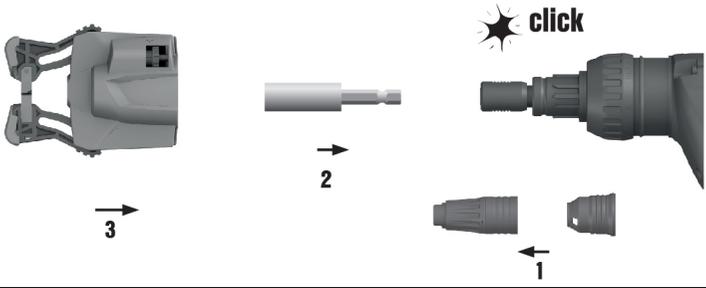
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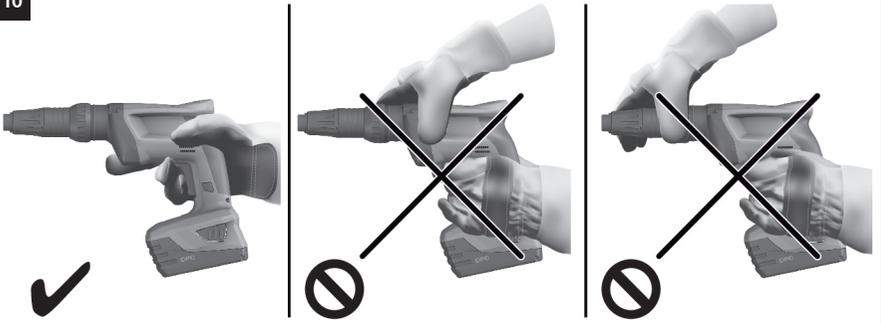
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# ST 1800-A18

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## 1 Information about the documentation

### 1.1 Explanation of signs used

#### 1.1.1 Warnings

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

	<b>DANGER!</b> Draws attention to imminent danger that will lead to serious personal injury or fatality.
	<b>WARNING!</b> Draws attention to a potentially dangerous situation that could lead to serious personal injury or fatality.
	<b>CAUTION!</b> Draws attention to a potentially dangerous situation that could lead to slight personal injury or damage to the equipment or other property.

#### 1.1.2 Symbols

The following symbols are used:

	Read the operating instructions before use.
	Instructions for use and other useful information
	Forward / reverse
$n_0$	Rated speed under no load
/min	Revolutions per minute
RPM	Revolutions per minute

#### 1.1.3 Illustrations

The illustrations in these operating instructions are intended to convey a basic understanding and may differ from the actual version of the product:

2	These numbers refer to the corresponding illustrations found at the beginning of these operating instructions.
3	The numbering in the illustrations reflects the order of the work steps in the illustration and may deviate from the numbering of work steps in the text.
②	Item reference numbers are used in the overview illustration. In the product overview section, the numbers shown in the legend relate to these item reference numbers.

## 1.2 Information about the documentation

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

We reserve the right to make changes. Errors excepted.

## 1.3 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.

- Make a note of the designation and serial number printed on the identification plate in the following table.
- ▶ Always quote this information when you contact a Hilti representative or Hilti Service to make an enquiry:

## Product information

Cordless metal screwdriver	ST 1800-A18
Generation	01
Serial no.	

## 2 Safety

### 2.1 Safety instructions

The safety rules given in the following section contain all general safety rules for electric tools which, in accordance with the applicable standards, require to be listed in the operating instructions. Accordingly, some of the rules listed may not be relevant to this electric tool.

#### 2.1.1 General power tool safety warnings

##### 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.

##### 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 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, clothing and gloves 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.

#### **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 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.
- ▶ **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. 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.

#### **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.

#### **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.

### **2.1.2 Drill/driver safety warnings**

- ▶ **Hold power tool by insulated gripping surfaces, when performing an operation where the fastener may contact hidden wiring.** Fasteners contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

### **2.1.3 Additional safety instructions**

#### **Personal safety**

- ▶ **Tampering with or modification of the power tool is not permitted.**
- ▶ **Wear ear protectors.** Exposure to noise can cause hearing loss.
- ▶ **Keep the grips dry, clean and free from oil and grease.**
- ▶ **Activate the safety lock (forward/reverse switch in the middle position) before making adjustments to the tool, before fitting accessory tools, the side handle or depth gauge and when storing and transporting the tool.**
- ▶ **Do not lift or carry the tool by the accessories attached to it.**
- ▶ **To reduce the risk of injury, use only genuine Hilti accessories and accessory tools.**
- ▶ **Observe the national health and safety requirements.**
- ▶ **Improve the blood circulation in your fingers by relaxing your hands and exercising your fingers during breaks between working.**
- ▶ **The power tool is not intended for use by inexperienced persons who have received no special training.**
- ▶ **Keep the power tool out of reach of children.**

- ▶ **Avoid touching rotating parts. Switch the power tool on only after bringing it into position at the workpiece.** Touching rotating parts, especially rotating tools or other accessories, may lead to injury.
- ▶ Dust from material such as paint containing lead, some wood species, minerals and metal may be harmful. Contact with or inhalation of the dust may cause allergic reactions and/or respiratory diseases among operators or bystanders. Certain kinds of dust such as oak and beech wood dust are classified as carcinogenic, especially in conjunction with additives for wood conditioning (chromate, wood preservative). Material containing asbestos may be worked on only by specialists. **Use a dust removal system that is as effective as possible. To achieve a high level of dust collection, use a suitable vacuum cleaner of the type recommended by Hilti for wood dust and/or mineral dust and which is designed for use with this tool. Ensure that the workplace is well ventilated. Observe national regulations applicable to the materials you intend to work with.**

#### Electrical safety

- ▶ **Before beginning work, check the working area (e.g. using a metal detector) to ensure that no concealed electric cables or gas and water pipes are present.** External metal parts of the power tool may become live, for example, when an electric cable is damaged accidentally. This presents a serious risk of electric shock.

#### Work area

- ▶ **If the work involves breaking right through, take the appropriate safety measures at the opposite side.** Parts breaking away could fall out and / or fall down and injure other persons.

#### Use and care of battery-powered tools

- ▶ **Do not expose batteries to high temperatures, the direct heat of the sun, and keep them away from fire.** There is a risk of explosion.
- ▶ **Do not disassemble, crush or incinerate batteries and do not subject them to temperatures over 80°C (176°F).** This presents a risk of fire, explosion or injury through contact with caustic substances.
- ▶ **Observe the special guidelines applicable to the transport, storage and use of lithium-ion batteries.**
- ▶ **Never continue to use or attempt to charge damaged batteries, e.g. batteries with cracks, broken parts, bent or pushed-in / pulled-out contacts).**
- ▶ **Do not use the battery as a power source for other unspecified power tools or appliances.**
- ▶ **If the battery is too hot to touch it may be defective. Allow the battery to cool in a place where there is no risk of fire. Check that there are no flammable materials nearby. Contact Hilti Service.**

### 3 Description

#### 3.1 Overview of the product

- |                             |  |
|-----------------------------|--|
| ① Control switch            | ⑦ Torque adjustment  |
| ② Forward / reverse switch  | ⑧ Chuck  |
| ③ Lockbutton                | ⑨ Protective cap   |
| ④ Grip                      | ⑩ Release button with additional function (charge status display activation) |
| ⑤ Pressure transfer surface | ⑪ Depth gauge  |
| ⑥ Battery interface         | ⑫ Depth gauge adjustment   |

#### 3.2 Intended use

The product described is a hand-held cordless screwdriver for fastening profile metal sheets, metal sheets and sandwich panels in metal construction. The product is designed for driving and removing self-drilling and self-tapping screws in appropriate materials and material thicknesses.

It is possible to use a stand-up tool for driving collated screws.

- ▶ Use only **Hilti** Li-ion batteries of the B 18 series with this product.
- ▶ Use only the **Hilti** battery chargers from the C4/36 series for these batteries.

#### 3.3 Items supplied

Metal construction screwdriver, ST-DG 19 depth gauge, ST-DC protective cap, S-NSD 8 screwdriving bit, operating instructions.



#### Note

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](http://www.hilti.com)

### 3.4 Li-ion battery display

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

Status	Meaning
4 LEDs light.	• Charge status: 75 % to 100 %
3 LEDs light.	• Charge status: 50 % to 75 %
2 LEDs light.	• Charge status: 25 % to 50 %
1 LED lights.	• Charge status: 10 % to 25 %
1 LED blinks, the power tool is ready for use.	• Charge status: < 10 %
1 LED blinks, the power tool is not ready for use.	• The battery has overheated.
4 LEDs blink, the power tool is not ready for use.	• The power tool is overloaded or has overheated.



#### Note

Battery charge state 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.

## 4 Technical data

### 4.1 Cordless metal screwdriver

Rated voltage	21.6 V <sub>DC</sub>
Weight	5.5 lb (2.5 kg)
Rated speed under no load	33.3 Hz (2,000 rpm)
Torque	9 ftlb <sub>i</sub> (12 Nm)
Socket/bit drive	1/4" hex. socket with locking ring

## 5 Operation

### Inserting the battery



#### WARNING

**Risk of injury!** Inadvertent starting of the impact screwdriver.

- ▶ Before fitting the battery, check that the cordless impact screwdriver is switched off and that the forward/reverse switch is in the middle position (i.e. safety lock engaged).



#### WARNING

**Electrical hazards!** Risk of short circuiting.

- ▶ Before inserting the battery, check to ensure that the battery terminals and the contacts in the impact screwdriver are free from foreign objects.



#### WARNING

**Risk of injury!** Hazard presented by a falling battery.

- ▶ A falling battery may present a risk of injury to yourself and others. Check that the battery is securely seated in the power tool.



#### Note

Make sure that the outer surfaces of the battery are clean and dry before inserting the battery in an approved battery charger.

2

<p><b>Fitting / removing the depth gauge (optional)</b></p> <p> <b>Note</b>  When driving screws with a sealing washer, use a depth gauge suitable for the diameter of the sealing washer (accessory). When the depth gauge is correctly adjusted the screw seal will be correctly compressed.  The depth gauge is attached to the metal construction screwdriver by way of a snap-on connection and can be simply pulled off or pushed on.</p>	<b>3</b>
<p><b>Setting the depth gage (accessory)</b></p>	<b>4</b>
<p><b>Using the protective cap</b></p> <p> <b>Note</b>  When the depth gauge is not fitted, the guard protects the depth gauge holder from dirt and damage.</p>	<b>5</b>
<p><b>Fitting / removing the accessory tool</b></p> <p> <b>CAUTION</b>  <b>Risk of injury.</b> The accessory tool may be hot or have sharp edges.</p> <ul style="list-style-type: none"> <li>▶ Wear protective gloves when using the power tool and when changing accessory tools.</li> </ul> <p> <b>Note</b>  After fitting the drill bit, grip it and pull it in order to check that it is securely engaged.</p>	<b>6</b>
<p><b>Fitting / removing the screw guide (optional)</b></p> <p> <b>Note</b>  Use of the ,Hilti' ST-SG 5.5/6.5 screw guide is recommended for sandwich panel screws.</p>	<b>7</b>
<p><b>Setting forward or reverse rotation</b></p> <p> <b>Note</b>  An interlock prevents switching while the motor is running.  The control switch is locked when the forward/reverse switch is in the middle position (safety lock).</p>	<b>8</b>
<p><b>Setting the torque</b></p>	<b>9</b>
<p><b>Safe operation</b></p> <p> <b>WARNING</b>  <b>Electric shock</b> A fastener coming into contact with a concealed electric cable may result in electric shock.</p> <ul style="list-style-type: none"> <li>▶ <b>Never use the depth gauge or chuck as a gripping area.</b></li> </ul> <p> <b>Note</b>  Always hold the tool by the grip and/or with the hands on plastic parts of the casing (in-line grip).</p>	<b>10</b>
<p><b>Switching on</b></p> <p> <b>Note</b>  The metal construction screwdriver must be pressed lightly against the working surface as it will otherwise not start (for safety reasons). The running speed can be controlled smoothly right up to maximum speed by varying how far the control switch is pressed in.</p>	
<p><b>Switching on in sustained operating mode</b></p> <p> <b>Note</b>  The lockbutton can be pressed in while the control switch is pressed. The metal construction screwdriver then runs in sustained operating mode. The lockbutton makes the tool less tiring to use as the control switch does not have to be constantly pressed.</p>	<b>11</b>
<p><b>Switching off after sustained operation</b></p> <p> <b>Note</b>  In order to be able to switch off from sustained operating mode quickly at any time, keep your hand close to the control switch. Pressing the control switch again causes the lockbutton to jump back into its original position.</p>	<b>12</b>

## Removing screws



### Note

Remove the depth gauge or screw guide, if fitted. Set the forward / reverse switch to the "Reverse" position.

## Removing the battery

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## 6 Care of the metal construction screwdriver



### WARNING

**Electrical hazards!** Improper repairs to electrical parts may lead to serious injuries.

- ▶ Electrical parts may be repaired only by trained electrical specialists.

- ▶ **Keep the product, especially its grip surfaces, clean and free from oil and grease. Do not use cleaning agents containing silicone.**
- ▶ Never operate the product when the air vents are blocked. Clean the air vents carefully using a dry brush. Do not allow foreign objects to enter the interior of the product.
- ▶ Clean the outside of the product at regular intervals with a slightly damp cloth. Do not use a spray, steam pressure cleaning equipment or running water for cleaning.
- ▶ Clean the connection end and the chuck at regular intervals.

### 6.1 Care of the lithium-ion batteries



### Note

Keep the battery clean and free from oil and grease.

Clean the outer surfaces with a slightly damp cloth at regular intervals. Do not use cleaning agents containing silicone.

To achieve maximum battery life, stop drawing power from the battery as soon as a significant drop in the performance of the power tool is noticed.

Battery discharge is stopped automatically before the battery cells suffer damage.

### 6.2 Transport and storage

#### 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 battery individually packaged.
- Never transport batteries in bulk form (loose, unprotected).
- Check tools 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 battery 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.

## 7 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**.

### 7.1 The metal construction screwdriver is not operational.

Trouble or fault	Possible cause	Action to be taken
The metal construction screwdriver doesn't start.	The battery is not fully inserted.	▶ Push the battery in until it engages with an audible click.
	The battery is discharged.	▶ Charge the battery.
	Electrical fault.	▶ Switch the metal construction screwdriver off immediately, remove the battery, keep it under observation, allow it to cool down and contact <b>HiltiService</b> .
The control switch can't be pressed, i.e. the switch is locked.	The forward / reverse switch is in the middle position.	▶ Push the forward / reverse switch to the left or right.
The battery is not heard to engage.	The retaining lugs on the battery are dirty.	▶ Clean the retaining lugs and push the battery in until it engages. Contact <b>Hilti Service</b> if the problem persists.
LED 1 blinks.	The battery is discharged.	▶ Charge the battery.
	The battery is too hot.	▶ Bring the battery to the recommended operating temperature.
	The battery is too cold.	▶ Bring the battery to the recommended operating temperature.
The screwdriver doesn't work and all four LEDs blink.	The product is overloaded (application limits exceeded).	▶ Release the control switch and then press it again. Reduce the load on the tool.

### 7.2 The metal construction screwdriver is operational.

Trouble or fault	Possible cause	Action to be taken
Speed of rotation drops considerably.	The battery is discharged.	▶ Charge the battery.
The metal construction screwdriver or battery gets very hot.	Electrical fault.	▶ Switch the metal construction screwdriver off immediately, remove the battery, keep it under observation, allow it to cool down and contact <b>HiltiService</b> .
The screw is pressed too tightly against the surface.	The depth gauge is set incorrectly.	▶ Turn the depth gauge to the right.
The screw is not pressed tightly enough against the surface.	The depth gauge is set incorrectly.	▶ Turn the depth gauge to the left.
The screwdriver runs but the screw can't be driven.	The wrong direction of rotation is set.	▶ Set the forward/reverse switch to the desired direction of rotation.

## 8 Disposal

 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.

## 8.1 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.

## 9 Manufacturer's warranty

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



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