

SF 4000



USA

Operating instructions

1-6

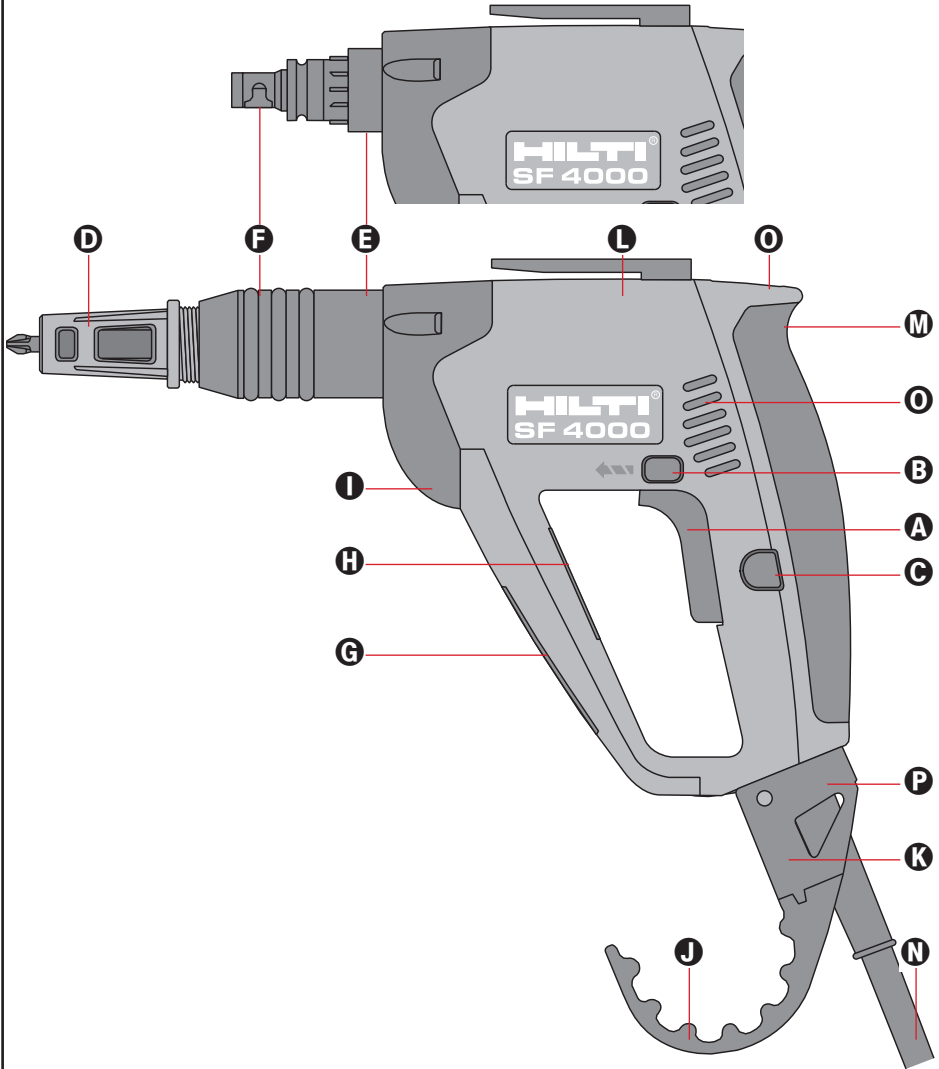
SF 4000 Drywall screwdriver
SF 4000 (50 ft cord with Twist Lock Plug)



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HILTI

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This Product is Certified
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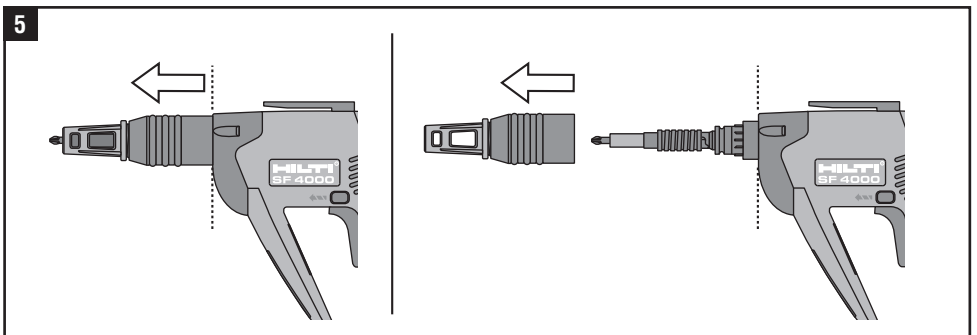
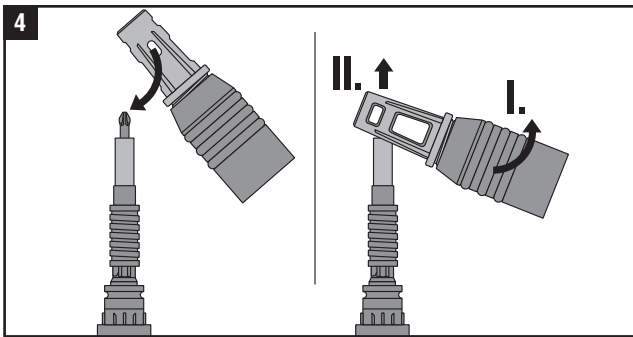
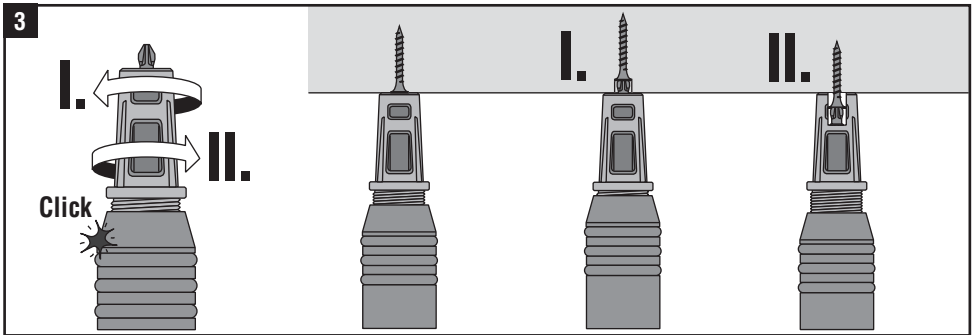
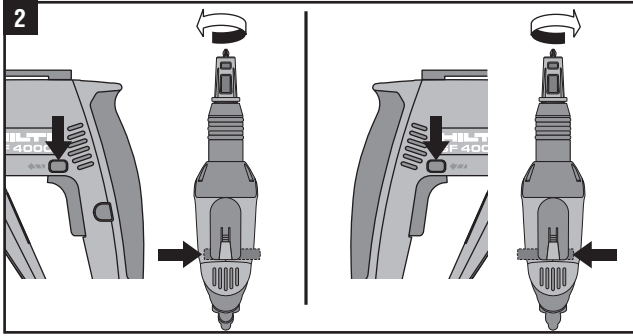


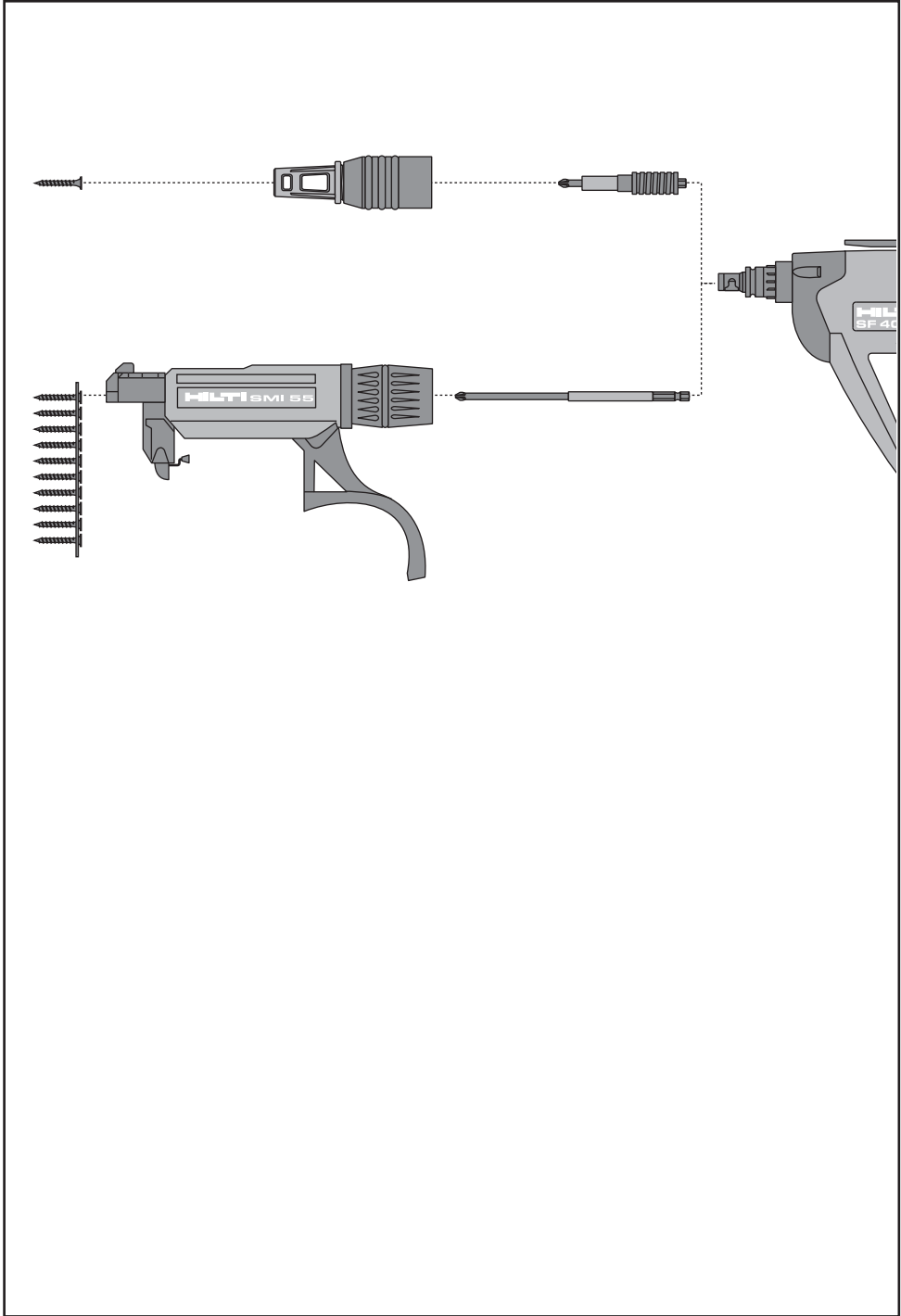
SF 4000
Double insulation
Double isolation
Doble aislamiento

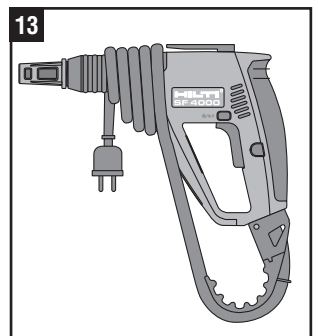
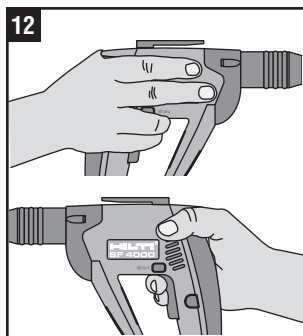
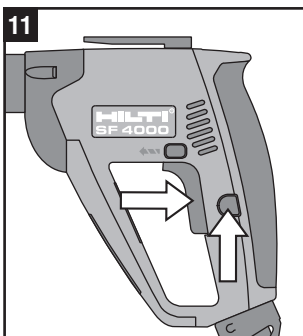
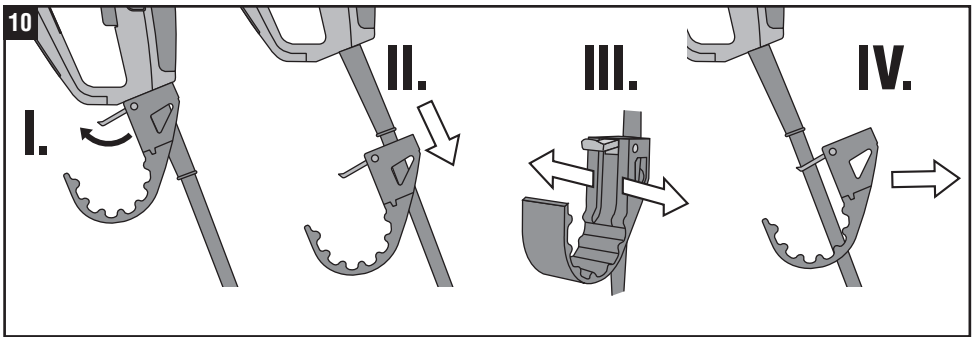
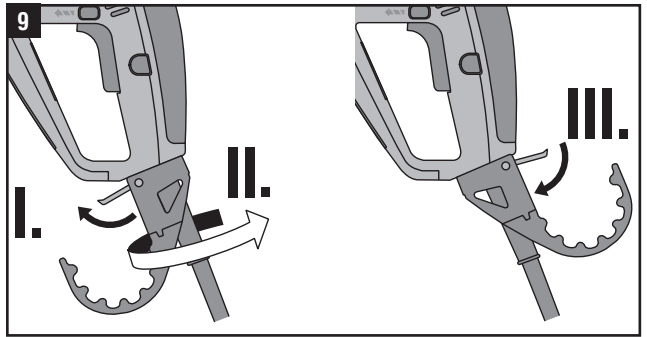
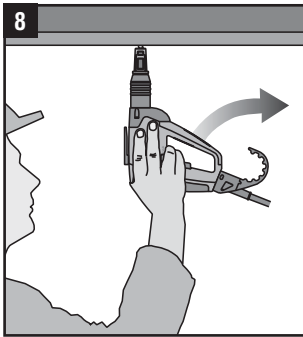
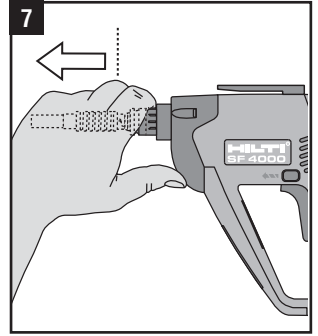
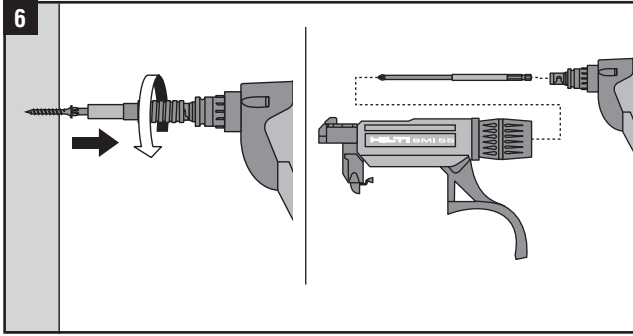


SF 4000 (50 ft / 15 m)
Protective grounding required
Mise à la terre de protection
Conexión a tierra









ORIGINAL OPERATING INSTRUCTIONS

SF 4000 Drywall Screwdriver / SF 4000 (50 ft cord with Twist Lock Plug)


Prior to using this electric tool, please read these operating instructions.

Always keep these operating instructions with the electric tool.

Only pass on the electric tool complete with operating instructions to another person.

Operating components and tool parts **1**

- A** On-off switch (with electronic speed control)
- B** Reversing switch
- C** Lockbutton for sustained operation
- D** Adjustable depth gauge (with bit change function)
- E** Tool-accessory interface (click connection)
- F** Chuck 1/4" (for bit holder, magazine bit)
- G** Controlled cooling air guidance (air exit)
- H** Name / rating plate
- I** Clutch system / gearing
- J** Scaffolding hook
- K** Locking/ unlocking of scaffolding hook
- L** Motor
- M** Grip
- N** Supply cord
- O** Entrance for cooling air
- P** Clamp

 This symbol identifies notes in these operating instructions that are particularly important to operator safety. Always observe them. Otherwise, serious injury can be the consequence.

 Caution electrical

1 Each of these numbers indicates a figures. The figures to the text are given on the fold-out cover pages. Keep them opened out when reading the instructions.

In the text of these operating instructions, the word "tool" always means the SF 4000.

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General safety rules

1. WARNING!

Read and understand all instructions.

Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury.

SAVE THESE INSTRUCTIONS

2. Work Area

2.1 **Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents.

2.2 **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.

2.3 **Keep bystanders, children and visitors away while operating a power tool.** Distractions can cause you to lose control.

3. Electrical Safety

3.1 **Grounded tools must be plugged into an outlet properly installed and grounded in accordance with all codes and ordinances. Never remove the grounding prong or modify the plug in any way. Do not use any adaptor plugs. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded.** If the tools should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user.

Applicable only to Class I (grounded) tools.

3.2 **Double insulated tools are equipped with a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a polarized outlet. Do not change the plug in any way.** Double insulation \square eliminates the need for the three-wire grounded power cord and grounded power supply system.

Applicable only to Class II tools.

3.3 **Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is grounded.

3.4 **Don't expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.

3.5 **Do not abuse the cord. Never use the cord to carry the tools or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately.** Damaged cords increase the risk of electric shock.

3.6 **When operating a power tool outside, use an outdoor extension cord marked «W-A» or «W».** These cords are rated for outdoor use and reduce the risk of electric shock.

4. Personal Safety

4.1 **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a tool while tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating power tools may result in serious personal injury.

4.2 **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair can be caught in moving parts.

4.3 **Avoid accidental starting. Be sure switch is off before plugging in.** Carrying tools with your finger on the switch or plugging in tools that have the switch on invites accidents.

4.4 **Remove adjusting keys or wrenches before turning the tool on.** A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.

4.5 **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations.

4.6 **Use safety equipment. Always wear eye protection.** Dust mask, non-skid safety shoes, hard hat or hearing protection must be used for appropriate conditions.

5. Tool Use and Care

5.1 **Use clamps or other practical means to secure and support the workpiece to a stable platform.** Holding the workpiece by hand or against your body is unstable and may lead to loss of control.

5.2 **Do not force tool. Use the correct tool for your application.** The correct tool will do the job better and safer at the rate for which it is designed.

5.3 **Do not use tool if the switch does not turn it on or off.** Any tool that cannot be controlled with the switch is dangerous and must be repaired.

5.4 **Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool.** Such preventive safety measures reduce the risk of starting the tool accidentally.

5.5 **Store idle tools out of reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.

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

5.7 Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the tools operation. If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.

5.8 Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool may become hazardous when used on another tool.

6. Service

6.1 Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of injury.

6.2 When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual. Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of electric shock or injury.

Specific safety rules and symbols

Hold tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord. Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.

WARNING: Some dust created by grinding, sanding, cutting and drilling contains chemicals known to cause cancer, birth defects, infertility or other reproductive harm; or serious and permanent respiratory or other injury. Some examples of these chemicals are: lead from leadbased paints, crystalline silica from bricks, concrete and other masonry products and natural stone, arsenic and chromium from chemically treated lumber. Your risk from these exposures varies, depending on how often you do this type of work. To reduce exposure to these chemicals, the operator and bystanders should work in a well-ventilated area, work with approved safety equipment, such as respiratory protection appropriate for the type of dust generated, and designed to filter out microscopic particles and direct dust away from the face and body. Avoid prolonged contact with dust. Wear protective clothing and wash exposed areas with soap and water. Allowing dust to get into your mouth, eyes, or to remain on your skin may promote absorption of harmful chemicals.

The tool is not intended for use by children, by debilitated persons or those who have received no instruction or training.

Children must be instructed not to play with the tool.

Use the tool only for purposes for which it is designed. Failure to do so may result in electric shock, damages to property and/or serious personal injury.

Unplug tool immediately if supply cord becomes damaged during working. Have supply cord replaced by a qualified electrician. Damaged supply cords present a risk of fire and/or electric shock.

Never operate the tool when it is dirty or wet. Dirt/dust or dampness on the surface of the tool make it slippery and difficult to hold and may, under unfavourable conditions, present a risk of electric shock.

Ensure that the insert tools are equipped with the appropriate connection end for the chuck system in use and that they are locked in position correctly in the chuck. Inserting tools with a different connection end will result in malfunction and damage to the tool and may even cause injury by breaking parts. Incomplete insertion may result in insert tool falling out of chuck, causing damage or injury to persons.



Always wear eye protection



Wear respiratory protection if the work causes dust



Always wear ear protectors

Symbols used on the tool:

V	.....	volts
W	.....	watts
~	.....	alternating current
Hz	.....	hertz
	.....	protective grounding (SF4000 50 ft cord with Twist lock Plug)
	.....	double insulation (SF4000)

Description

The SF4000 is an electric-powered drywall screwdriver with claw (Jet) coupling for use by professional drywall installers. To achieve optimal handling, we recommend that it is held in line with the arm (with a pistol grip **12**). This tool is suitable for right and left-handers. The grip is made of an elastomer which reduces tiring and, also, the possibility of the hand slipping off the grip. The following are supplied with the screwdriver: Philips bit no. 2, magnetic bit holder, operating instructions and a toolbox or transport cardboard box. See figure **1** and the explanations of operating components and tool parts on page 1.



Always observe the following when using the tool:


- The tool must be connected to an alternating current electric mains supply in compliance with the information given on the rating plate.

- Only use the screwdriver as a hand-held tool.
- Don't use the tool in an explosive atmosphere.

Key tool features

- Vibration-damped grip (elastomer)
- Infinitely adjustable speed
- Permanent grease lubrication of gears and coupling
- Automatic cut-out carbon brushes
- Claw coupling with Jet function
- Scaffolding hook and belt hook
- Lockbutton for sustained operation
- Reversing switch
- Adjustable depth gauge
- Controlled cooling air flow (exit)
- 3 Wire grounded plug (SF4000 50 ft cord only)

Technical data of SF4000

Rated input:	550 W
Rated voltage:	120 V
Mains frequency:	50–60 Hz
No-load speed:	0–4300 r.p.m.
Chuck:	1/4" as per DIN 3126 / ISO 1173
Tool weight without supply cord:	2.8 lbs (1.3 kg)
Max. torque:	> 6.5 Nm
Dimensions (L×W×H):	8.3×2.3×6.9" (212×68×176 mm)
Speed control:	electronic via control switch
Clockwise / counter-clockwise rotation:	push-type switch, locked while tool is running
Protection class:	– electrical protection class II (double insulated)  – electrical protection, class I (grounded) (50 ft cord with Twist Lock Plug)

Right of technical modifications reserved

Use of tool for intended purpose

Main application	Type of screw
Drywall panels to metal framing (≤ 20 ga./0.88 mm)	Drywall screw with sharp point, type S
Drywall panels to metal framing (≤ 20–14 ga./2.25 mm)	Drywall screw with drill point, type SD
One metal framing part to another (max. fastened thickness 12–13 ga./2.50 mm)	Drywall screw with drill point, types SD
Drywall panels to timber framing	Drywall screw with needle point, type S
Gypsum-fibre panels to metal (≤ 20 ga./0.88 mm) and timber framing	Drywall screw with needle point, type S
Particle board to timber framing	Drywall screw with needle point, type S

The tool can be used with the SMI 55 magazine and corresponding magazined screws for the intended applications. Please refer to the operating instructions of the SMI 55 drywall screw magazine when doing so.

Preparation for use



Read and observe the general and specific safety rules in these operating instructions without fail.



Make sure that the electric supply voltage corresponds to the data on the rating / name plate.



Only use extension cables approved for the range of application. Always replace damaged extension cables.

Use only insert tools with a standardised 1/4" hexagon connection.

Operation

A On-off switch with electronic speed control

The speed can be infinitely increased up to max r.p.m. by slowly squeezing the switch.

B Push-type reversing switch

The direction of rotation of the tool spindle can be selected with the reversing switch **2**. It is locked to avoid switching when the tool is running.

Push switch to right = counter-clockwise rotation **I**.
Push switch to left = clockwise rotation **II**.

C Lockbutton for sustained operation

The lockbutton for sustained operation switches on the tool which runs continuously with the optimal speed and cooling.

- Switching on sustained operation: Depress the on-off switch **A** and press in the lockbutton **C**. Then, release both **1**.
- Switching off sustained operation: Briefly squeeze the on-off switch **A**. The lockbutton for sustained operation then releases itself.

D Depth gauge for adjusting screw penetration

The screw can be driven flush with the work surface, countersunk or given stand-off by adjusting the depth gauge. Per graduation / increment, the adjustment is ± 0.25 mm **3**.

- Turn depth gauge to left = screw driven deeper **I**.
- Turn depth gauge to right = screw driven less deep **II**.

E Tool-accessory interface

Pulling on the depth gauge **D** releases the click connection with the tool **5**. The spindle is freed for removal of a driven screw in counter-clockwise rotation **6 I**, or for a change of bit **4** or bit holder **7** or for attachment of the SMI 55 magazine **6 II**, or for redriving a screw. Take care when attaching the depth gauge.

Changing a bit **4**

Pull the depth gauge **D** away from the interface **E**, insert a worn bit into the opening provided in the depth

gauge **D**, lock or angulate and pull the bit upwards (bottle opener principle).

Changing a bit holder **7**

The chuck has a standardised 1/4" hexagon socket for insert tools (bit, bit holder, magazine bit). Pull on the depth gauge **D** to release the click connection from the tool **5**. The bit holder is freed and can be changed. Grip the bit holder on the plastic section, while pulling it forward and pressing away from the gear housing **7**. The bit holder releases itself from the chuck **F**. **Use with the SF4000 only the bit holder S-BHP 75 M.**

G Cooling air guidance

Air required to cool the motor is drawn in through the air slots **G** and vented in a controlled direction through the air exit **G B**.

H Scaffolding hook

Using this hook, the tool can be kept in various places for the time being. On opening the clamping lever **K**, the scaffolding hook can be turned through 360° **9 III**, and locked again at the desired new position by closing the clamping lever **9 I. + II**. If the hook is not needed, it can be removed completely **10**. Open the clamping lever **K I.**, slide the hook down **II.**, press out the clamping lever **9 III**, and away from the supply cord **IV.** Only use the scaffolding hook as long as necessary. Put the tool in a safe place when leaving the jobsite /workplace.

N Supply cord

By coiling the supply cord over the scaffolding hook **H**, cord breakage at the protective sleeve can be reduced **16**.

Care and maintenance



Unplug the supply cord from the mains socket.

Care

-CAUTION-

Keep the power tool, especially its grip surfaces, clean and free from oil and grease. Do not use cleaning agents which contain silicone.

The outer casing of the tool is made from impactresistant plastic. Sections of the grip are made from a synthetic rubber material. Never operate the tool when the ventilation slots are blocked. Clean the ventilation slots carefully using a dry brush. Do not permit foreign objects to enter the interior of the tool. Clean the outside of the tool at regular intervals with a slightly damp cloth. Do not use a spray, steam pressure cleaning equipment or running water for cleaning. This may negatively affect the electrical safety of the tool.

Also take care of your insert tools. Remove any adhering dirt or grime, and, above all, always keep the chuck  and the tool interface  clean.

Maintenance

Regularly check outer parts of the tool for damage and all operating components for correct functioning. Don't use the tool if parts are damaged or operating components do not function properly. If this is the case, have the tool repaired by Hilti.

Accessories

SMI 55 magazine

Manufacturer's warranty – tools

Hilti warrants that the tool supplied is free of defects in material and workmanship. This warranty is valid so long as the tool is operated and handled correctly, cleaned and serviced properly and in accordance with the Hilti Operating Instructions, and the technical system is maintained. This means that only original Hilti consumables, components and spare parts may be used in the tool.

This warranty provides the free-of-charge repair or replacement of defective parts only over the entire lifespan of the tool. Parts requiring repair or replacement as a result of normal wear and tear are not covered by this warranty.

Additional claims are excluded, unless stringent national rules prohibit such exclusion. In particular, Hilti is not obligated for direct, indirect, incidental or consequential damages, losses or expenses in connection with, or by reason of, the use of, or inability to use the tool for any purpose. Implied warranties of merchantability or fitness for a particular purpose are specifically excluded.

For repair or replacement, send tool or related parts immediately upon discovery of the defect to the address of the local Hilti marketing organization provided.

This constitutes Hilti's entire obligation with regard to warranty and supersedes all prior or contemporaneous comments and oral or written agreements concerning warranties.

Disposal

A large proportion of Hilti tools is made of recyclable material. A prerequisite for recycling is that the materials are properly separated. In many countries, Hilti is already set up for taking back your old tool for recycling. Ask the local Hilti customer service or your sales representative. If you wish to send the tool for recycling yourself, take the tool apart as far as this is possible without special tools. Wipe clean the oiled parts and any grease using suitable paper and have it disposed of properly. Under no circumstances let oil or grease get into the waste water / drainage system or the ground / soil.

Separate the single parts as follows:

Part / assembly	Main material	Recycling
Toolbox	plastic	plastic recycling
Outer casing	plastic	plastic recycling
Supply cord	copper, elastomer	scrap metal
Gears / coupling parts	steel	scrap metal
Motor (rotor / stator)	steel, copper	scrap metal
Grip	plastic, elastomer	plastic recycling
Depth gauge	aluminium	scrap metal, plastic recycling
Screws, small parts	steel	scrap metal

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