

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.

Hammer safety warnings

Wear ear protectors. Exposure to noise can cause hearing loss.
Use auxiliary handles, if supplied with the tool. Loss of control can cause personal injury.
Use old power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring or its own cord. Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

Additional safety instructions

Personal safety

Always hold the power tool securely with both hands on the grips provided. Keep the grips dry, clean and free from oil and grease.
Breathing protection must be worn if the power tool is used without a dust removal system for work that creates dust.

Improve the blood circulation in your fingers by flexing your hands and exercising your fingers during breaks between working.

Avoid touching rotating parts. Switch the power off on only after bringing it into position at the workplace. Touching rotating parts, especially rotating insert tools, may lead to injury.

Always lead the supply cord and extension cord away from the power tool to the rear while working. This helps to avoid tripping over the cord while working.

When using the power tool for mixing, set the action selector switch to "Hammer drilling" and wear protective gloves.

Children must be instructed not to play with the power tool.

A power tool is not intended for use by children, debilitated persons or those who have received instruction or training.

Power tool use and care

Secure the workpiece. Use clamps or a vice to secure the workpiece. The workpiece is thus held more securely than by hand and both hands remain free to operate the power tool.

Check that the insert tools used are compatible with the chuck system and that they are secured in the chuck correctly.

Always work from a secure, safe stance.

5.3.3 Electrical safety



a) 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.

b) Check the power tool's supply cord at regular intervals and have it replaced by a qualified specialist if found to be damaged. If the power tool's supply cord is damaged it must be replaced with a specially-prepared supply cord available from Hilti Customer Service. Check extension cords at regular intervals and replace them if found to be damaged. Do not touch the supply cord or extension cord if it is damaged while working. Disconnect the supply cord plug from the power outlet. Damaged supply cords or extension cords present a risk of electric shock.

c) Dirty or dusty power tools which have been used frequently for work on conductive materials should be checked at regular intervals at a Hilti Service Center. Under unfavorable circumstances, dampness or dust adhering to the surface of the power tool, especially dust from conductive materials, may present a risk of electric shock.

d) When working outdoors with an electric tool check to ensure that the tool is connected to the electric supply by way of a ground fault circuit interrupter (GFCI) with a rating of max. 30 mA (tripping current). Use of a ground fault circuit interrupter reduces the risk of electric shock.

e) Use of a ground fault circuit interrupter (GFCI) with a maximum tripping current of 30 mA is recommended.

5.3.4 Work area

a) Ensure that the workplace is well lit.
b) Ensure that the workplace is well ventilated. Exposure to dust at a poorly ventilated workplace may result in damage to the health.

c) **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 lead-based 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.

d) 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.

6 Before use



6.1 Fitting and adjusting the side handle

1. Disconnect the mains plug from the power outlet.
2. Release the side handle clamping band by turning the handle counterclockwise.

7 Operation



CAUTION

In accordance with the applications for which it is designed, the power tool produces a high torque. Always use the side handle and hold the power tool with both hands. The user must be prepared for sudden sticking and stalling of the insert tool.

CAUTION

Use clamps or a vice to hold the workpiece securely.

CAUTION

The collar at the front end of the gearing section is not to be used as a gripping surface.

CAUTION

Check the insert tool for damage or uneven wear each time before use.

7.1 Preparing for use

CAUTION

Wear protective gloves when changing insert tools as the insert tools get hot during use.

5.3.5 Personal protective equipment



The user and any other persons in the vicinity must wear ANSI Z87.1-approved eye protection, a hard hat, ear protection, protective gloves and breathing protection while the machine is in use.

3. Slide the side handle clamping band over the chuck and onto the neck of the power tool.
4. Pivot the side handle into the desired position.
5. **CAUTION** Check that the clamping band is engaged in the groove provided on the power tool. Secure the side handle by turning the grip clockwise.

6.2 Use of extension cords and generators or transformers

Please refer to section 2 "Description".

7.1 Fitting the insert tool

1. Disconnect the supply cord plug from the power outlet.
2. Check that the connection end of the insert tool is clean and lightly greased. Clean it and grease it if necessary.
3. Check that the sealing lip of the dust shield is clean and in good condition. Clean the dust shield if necessary or have it replaced if the sealing lip is damaged.
4. Push the insert tool into the chuck and rotate it while applying slight pressure until it engages in the guide grooves.
5. Push the insert tool further into the chuck until it is heard to engage.
6. Check that the insert tool has engaged correctly by pulling it.

7.1.2 Removing the insert tool

1. Disconnect the mains plug from the power outlet.
2. Open the chuck by pulling back the insert tool unlocking device.
3. Pull the insert tool out of the chuck.

8. Reduce drilling speed shortly before breaking through in order to avoid spalling.

7.2.2 Active Torque Control (TE 70-ATC/AVR and TE 80-ATC/AVR)

In addition to the mechanical safety slip clutch, the power tool is also equipped with the Active Torque Control system. This system offers additional comfort while drilling as it causes rapid shutdown upon sudden rotation of the power tool about the drill bit axis, e.g. when the drill bit sticks due to hitting a rebar or when the drill bit is tilted unintentionally. When the torque control system has become activated, the power tool can be restarted by releasing the control switch and re-engaging it after the motor has stopped rotating (a "click" indicates that the power tool is again ready for operation). Always choose a working position in which the electric tool is free to rotate in a counterclockwise direction (as seen by the operator). If this rotation is not possible, the ATC system will be unable to react.

7.2.3 Drilling without hammering

Drilling without hammering is possible when drill bits with a special connection end are used. Drill bits of this kind are available from Hilti. For example, when the keyless quick-release chuck is fitted, smooth-shank drill bits for wood or steel can be used to drill without hammering. The function selector switch must be set to the "Hammer drilling" position when the power tool is used in this way.

7.2.4 Chiseling (depends on version) 7

NOTE
The chisel can be adjusted to 24 different positions (in 15° increments). This ensures that flat chisels and shaped chisels can always be set to the optimum working position.

CAUTION

Do not operate the power tool when the selector switch is set to "Chisel adjustment".

1. To adjust the position of the chisel, turn the function selector switch until it engages in the "Chisel adjustment" position.
2. Bring the side handle into the desired position and check that it is fitted correctly and secured.
3. Rotate the chisel to the desired position.
4. To lock the chisel in the desired position, turn the function selector switch until it engages in the "Chiseling" position. Do not operate the function selector switch while the motor is running.
5. To begin chiseling, plug the power tool's supply cord into the power outlet.

ON

ing on the material may cause it to splinter. Wear protection and protective gloves. Wear breathing protection if no dust removal system is used. Splintering material presents a risk of injury to the eyes and

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erik generates noise. Wear ear protectors. Exposure to noise can cause hearing loss.

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the power tool on only after bringing it into the working position.

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operate the function selector switch while the motor is running.

Hammer drilling 6

g at low temperatures: The hammering mechanism works only when the power tool has reached a minimum operating temperature. Bring the tip of the drill chisel into contact with the workpiece and allow the power tool to run under no load until it reaches minimum operating temperature. If necessary, repeat the procedure until the hammering mechanism begins to work.

the function selector switch until it engages in the "Hammer drilling" position.
Bring the side handle into the desired position and check that it is fitted correctly and secured.
Plug the supply cord into the power outlet.
At the desired drilling power (optional).

OTE After connecting the supply cord to the electric supply, the power tool is always set to full drilling power.

OTE To set the power tool to reduced (50%) drilling power (depends on version), press the reduced-power button. The reduced-power LED lights to indicate reduced power. Press the reduced-power button again to switch to full power. The reduced-power LED then goes out.

Position the power tool and drill bit at the point where the hole is to be drilled.
Press the control switch slowly (drill at a low speed until the drill bit centers itself in the hole).
Press the control switch fully to continue working at full power.

OTE Do not apply excessive pressure. This will not increase the power tool's hammering performance. Excessive pressure extends the life of the insert tool.

6. Set the desired chiseling power level (depends on version).
NOTE After connecting the supply cord to the electric supply, the power tool is always set to full chiseling power.

NOTE To set the power tool to reduced (50%) chiseling power (depends on version), press the reduced-power button. The reduced-power LED lights to indicate reduced power. Press the reduced-power button again to switch to full chiseling power. The reduced-power LED then goes out.
Position the tip of the chisel at the point where chiseling is to begin.
Press the control switch fully.

7.2.5 Locking the control switch (depends on version) 8

When chiseling, the control switch can be locked in the "on" position.

1. Push the control switch lock at the top of the grip to the forward position.

2. Press the control switch fully.
The power tool then operates in sustained mode.
3. To cancel sustained operating mode, slide the control switch lock to the rear.
The power tool then switches off.

7.2.6 Mixing

1. Turn the function selector switch until it engages in the "Hammer drilling" position.
2. Insert the quick-release chuck in the power tool's chuck.
3. Insert the mixing paddle.
4. Check that the insert tool has engaged correctly by pulling it.
5. Bring the side handle into the desired position and check that it is fitted correctly and secured.
6. Plug the supply cord into the power outlet.
7. Position the mixing paddle in the container holding the substance to be mixed.
8. To begin mixing, press the control switch slowly.
9. Press the control switch fully to continue working at full power.
10. Guide the mixing paddle carefully in order to avoid splashing and spillage.

8 Care and maintenance

CAUTION

Disconnect the mains plug from the power outlet.

8.1 Care of insert tools

Clean off dirt and dust deposits adhering to the insert tools and protect them from corrosion by wiping the insert tools from time to time with an oil-soaked rag.

8.2 Care of the power tool

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

8.3 Service indicator

NOTE

The power tool is equipped with a service indicator.

Indicator	Constant red light	End of service interval - servicing is due.
		After the lamp lights for the first time, the power tool may continue to be used for several hours before the automatic out-out is activated. To ensure that the power tool is always ready for use, it should be returned to Hilti for servicing in good time.
	Blinking red light	See section "Troubleshooting".

The outer casing of the power tool is made from impact-resistant plastic. Sections of the grip are made from a synthetic rubber material.

Never operate the power 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 power tool. Clean the outside of the power 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 power tool.