HILTI NPR 032 IE-A22 Pipe Press Tool Instruction Manual

Contents

HILTI NPR 032 IE-A22 Pipe Press Tool Instruction

Information about the documentation

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.

Explanation of symbols

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

DANGER !

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

Warnings

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

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 operating instructions
The following symbols are used in these operating instructions:

- Comply with the operating instructions
- Instructions for use and other useful information
- Dealing with recyclable materials
- Do not dispose of electric equipment and batteries as household waste
- Hilti Liion battery
- Hilti charger

Symbols in illustrations
The following symbols are used in illustrations:

- These numbers refer to the illustrations 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.
- These characters are intended to specifically draw your attention to certain points when handling the product.

Product-dependent symbols

- Risk of crushing injury!
- Direct current (DC)
- The power tool supports near-field communication (NFC) technology, which is compatible with iOS and Android platforms.
- Li-ion battery
- Hilti Li-ion battery type series used. Observe the information given in the section headed Intended use.
- 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

crimping / pressing tool	NPR 032 IE-A22
Generation	01
Serial no.	

Declaration of conformity

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.

Additional safety instructions for crimping tools

Personal safety

- Use the product only if it is in perfect working order.
- Never tamper with or modify the tool in any way.
- Never carry out crimping work on parts of a gas supply network unless express approval has been given by the system supplier for use of this tool in conjunction with specially tested and approved fittings.
- Check that the locking pin is pushed in all the way and securely engaged.
- Take care to ensure that there are no foreign objects (e.g. plaster, grit particles, metal cuttings, etc.) in the crimping jaws and no parts are damaged. Do not continue to use damaged or distorted crimping jaws.
- Before starting work, check the crimping tool, NPR PS crimping jaws or, as applicable, NPR PR crimping rings in accordance with the instructions. Inadequately tested tools, jaws or rings can lead to substandard crimpings and are a potential safety risk for the operator. Crimping tools must undergo inspection by Hilti service at the latest every 15,000 crimping operations and at least once a year. Crimping jaws and rings must undergo servicing by Hilti service at least once a year.
- After crimping, pressure-test the tubing system to ensure that it is free of leaks (resulting from misuse of the tool, for example).

Electrical safety

- Before use of the power tool, all live cables or other items carrying electric voltage within the area in which the user is working are to be switched off. If this is not possible, the corresponding safety precautions for working in the proximity of live cables or equipment must be implemented and observed.
- Do not crimp live parts. The tool must be considered to be uninsulated and must therefore be used in conjunction with personal protective equipment (protective gloves, protective footwear, protective clothing, etc.) of a type suitable to provide protection for yourself and other persons in the vicinity.

Power tool use and care

- After approx. 50 consecutive crimping operations, switch the power tool off and allow it to cool down for about 15 minutes. Overheating can lead to damage to the power tool.

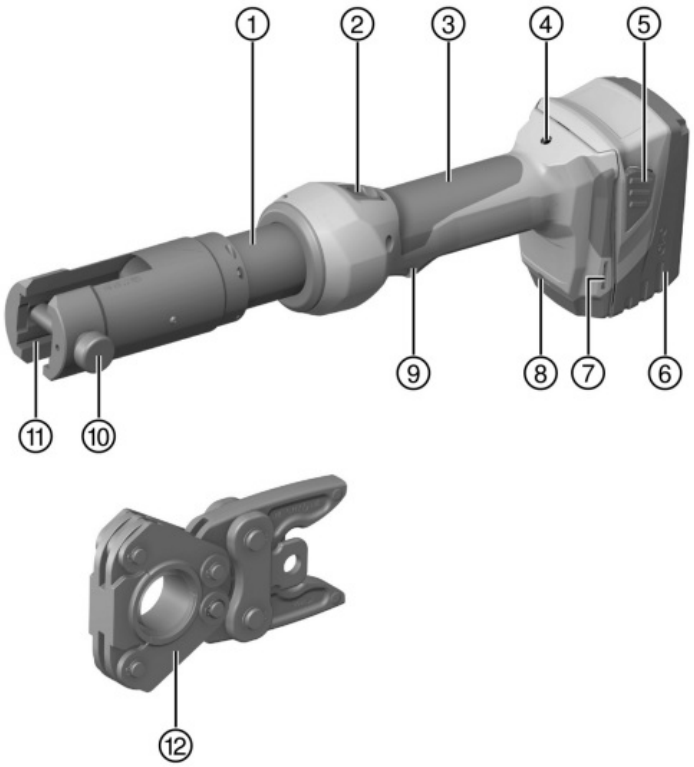
Careful handling and use of batteries

- 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. Crimping / pressing head
2. Piston return switch to open the crimping /pressing jaws in the event of a fault or emer-gency
3. Casing
4. Servicing and fault indicator (red LED)
5. Battery release button
6. Battery
7. Slot on both sides to fasten the Hilti retaining leash
8. White LED to illuminate the working area
9. Control switch
10. Locking pin for opening/closing the tool head
11. Crimping / pressing jaws
12. Pressing ring with adapter jaws

Intended use

The product described is a cordless electro-hydraulic crimping tool.
It is designed for crimping fittings used to connect composite, copper (Cu) and steel pipes.

- 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**

Possible misuse

- Do not use this hand-held product clamped in a fixed position or as a stationary device.
- This electro-hydraulic crimping tool may not be exposed to heavy rain or used under water.

Lithiumion battery status display

The charge state of the Li-ion battery and malfunctions of the product are indicated by the indicator of the Liion battery. The state of charge of the Liion battery 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 flashes.	State of charge: < 10 %

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 LEDs of the charge state indicator flash, follow the instructions in the ‘Troubleshooting’ section.

Items supplied

Crimping / pressing tool, operating instructions.
Other system products approved for use with this product can be found at your local Hilti Store or at:
www.hilti.group

Technical data

	NPR 032 IE-A22
Rated voltage	21.6 V
Weight in accordance with EPTA Procedure 01 including batteryB22⁄8.0	3.3 kg
Crimping / pressing time	≈ 7 s
Max. crimping / pressing force	32 kN
Storage temperature	–20 °C … 70 °C
Ambient temperature for operation	–17 °C … 60 °C

Noise and vibration values in accordance with EN 60745

The sound pressure and vibration values given in these instructions were measured in accordance with a standardized test and can be used to compare one power tool with another. They can also be used for a preliminary assessment of exposure. The data given represents the main applications of the power tool. However, if the power tool is used for different applications, with different accessory tools, or is poorly maintained, the data

can vary. This can significantly increase exposure over the total working period. An accurate estimation of exposure should also take into account the times when the power tool is switched off, or when it is running but not actually being used for a job. This can significantly reduce exposure over the total working period. Identify additional safety measures to protect the operator from the effects of noise and/or vibration, for example: maintaining the power tool and accessory tools, keeping the hands warm, organization of work patterns.

Noise values

Sound (power) level (L WA)	80 dB(A)
Uncertainty for the sound power level (K WA)	2.5 dB(A)
Emission sound pressure level (L pA)	70 dB(A)
Uncertainty for the sound pressure level (K pA)	2.5 dB(A)

Battery

Battery operating voltage	21.6 V
Ambient temperature for operation	–17 °C … 60 °C
Storage temperature	–20 °C … 40 °C
Battery charging starting temperature	–10 °C … 45 °C

Operation

Preparations at the workplace

WARNING

- Before inserting the battery, make sure that the product is switched off.
- Remove the battery before making any adjustments to the power tool or before changing accessories.

Observe the safety instructions and warnings in this documentation and on the product.

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. → page 5

Inserting the battery

WARNING

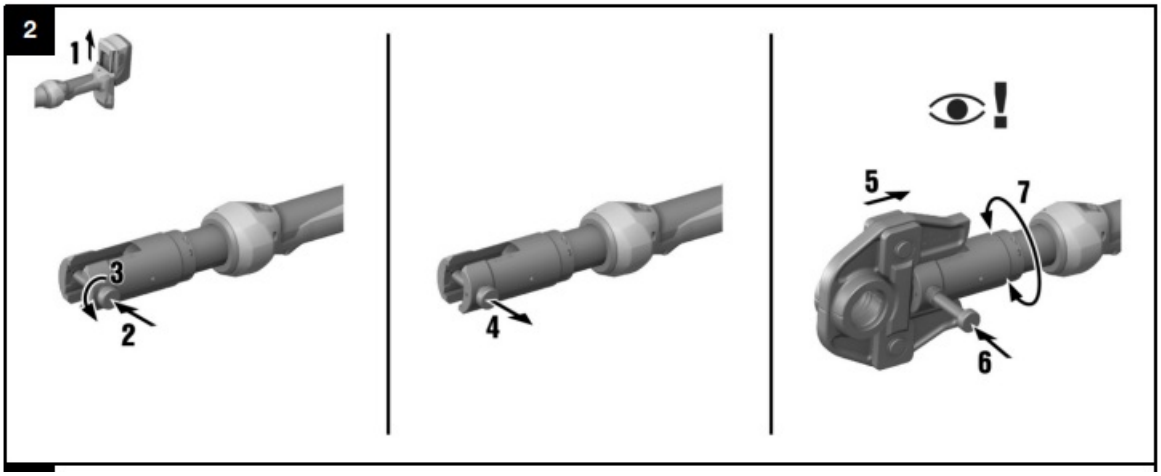
- Before inserting the battery, make sure that the contacts on the battery and the contacts on the product are free of foreign matter.
- Make sure that the battery always engages correctly.

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 crimping / pressing jaws 2



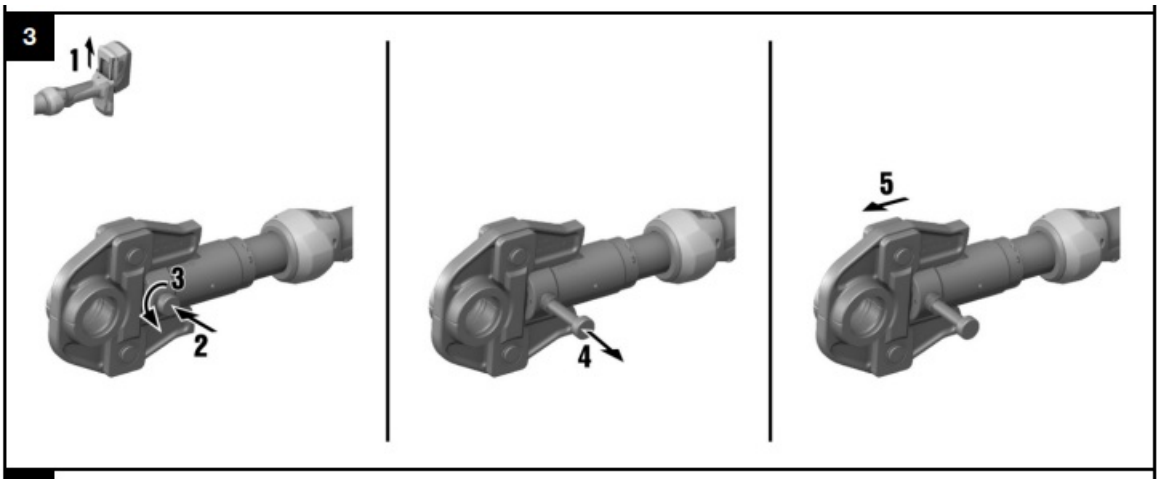
- Remove the battery before fitting, changing or removing the crimping / pressing jaws.

Never operate the product without the crimping jaws installed.
In order to ensure correct crimping / pressing and to ensure that the tool functions reliably and safely, only the crimping / pressing jaws approved by the system manufacturer / tool manufacturer for use with the tool may be used.

1. Remove the battery and select the most suitable crimping / pressing jaws.
2. Press the locking pins.
3. Rotate the locking pins counterclockwise as far as they will go.
4. Pull out the locking pins.
5. Fit the crimping / pressing jaws.
6. Push the locking pins in until they engage.
7. Rotate the crimping / pressing head to the desired working position.

The crimping / pressing head can be rotated much more easily when not under pressure.

Removing the crimping / pressing jaws 3



WARNING

- Remove the battery before fitting, changing or removing the crimping / pressing jaws.

1. Remove the battery and rotate the crimping / pressing head into the outset position.
2. Press the locking pins.
3. Rotate the locking pins counterclockwise as far as they will go.
4. Pull out the locking pins.
5. Work the crimping jaws forward and out of the product.

Fitting the adapter jaws and pressing ring

WARNING

- Remove the battery before fitting, changing or removing the crimping / pressing jaws.

In order to ensure correct pressing and to ensure that the tool functions reliably and safely, only the pressing ring approved by the system manufacturer / tool manufacturer for use with the tool may be used.

1. Remove the battery.
2. Press the locking pins.
3. Rotate the locking pins counterclockwise as far as they will go.
4. Pull out the locking pins.
5. Fit the adapter jaws.
6. Push the locking pins in until they engage.
7. Bring the pressing ring into position on the fitting to be pressed.
8. Close the pressing ring.

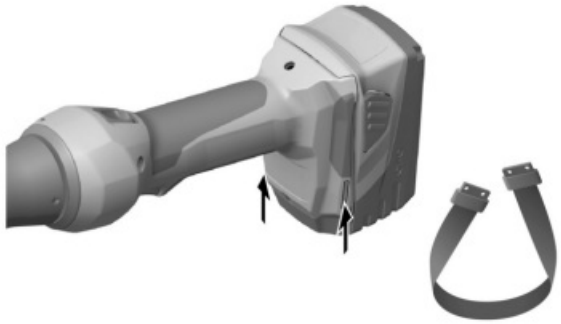
Removing the pressing ring and adapter jaws

WARNING

- Remove the battery before fitting, changing or removing the crimping / pressing jaws.

1. Open the pressing ring.
2. Remove the pressing ring.
3. Remove the battery.
4. Press the locking pins.
5. Rotate the locking pins counterclockwise as far as they will go.
6. Pull out the locking pins.
7. Work the adapter jaws forward and out of the product.

Assemble Hilti retaining leash (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 retaining leashes longer than 6 ft (2 m).

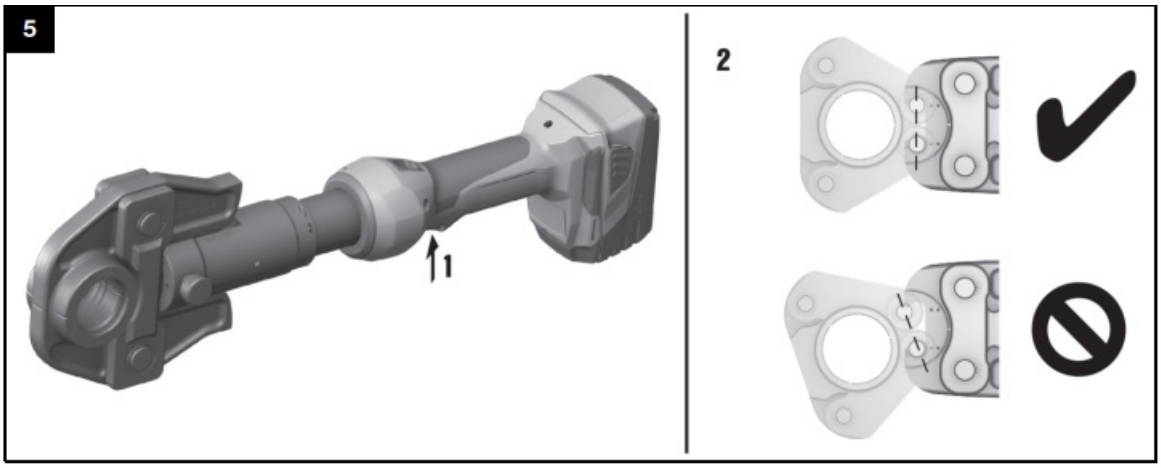
To avoid damage and injury, when working at a height it is advisable to use the Hilti retaining strap. The retaining strap allows a securing cord or leash to be attached.
When working with the product, you must comply with national regulations for working at heights.

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

Dismantle the Hilti retaining leash (optional) 4

1. Remove the battery.
2. Remove the two retaining strap securing screws.
3. Pull the two retaining strap tabs out of the slots in the base and remove the retaining strap.
4. Refit the battery.

Crimping / pressing 5



WARNING

- Never carry out crimping / pressing work on parts of a gas supply network unless express approval has been given by the system supplier for use of this tool in conjunction with specially tested and approved fittings.

WARNING

Risk of injury due to misaligned adapter jaws and crimping ring. The adapter jaws and/or the crimping ring can fly off like projectiles and lead to serious injury to the user or a bystander.

- The adapter jaws and the crimping ring must be correctly aligned throughout the entire crimping /pressing operation.

CAUTION

Damage to property due to incorrect handling! Incorrect handling can result in damage to the pressing tool and/or the pressing rings.

- Before starting work, make sure that pressing rings, adapter jaws/pressing jaws and rolling actuator (if present) are dust-free and well lubricated.
- Before starting work, lubricate pressing rings, adapter jaws/pressing jaws and rolling actuator (if present) with “lubricant and corrosion-inhibiting spray” (#308976).
- Comply with the original operating instructions of the manufacturer for the pressing rings.

In cold weather the hydraulic oil can thicken and slow the pressing operation. Perform 5 to 10 empty pressing operations to heat up the pressing tool.

1. Press and hold the control switch until the crimping / pressing jaws are completely closed.
2. When using a crimping / pressing ring, bring the product with the adapter jaws into position on the crimping / pressing ring and carry out the crimping / pressing operation.

In order to achieve a tight, durable crimped / pressed joint, it is essential that the crimping / pressing jaws reach the fully closed position, thus indicating completion of the crimping / pressing operation.
If the crimping / pressing operation is ended prematurely, the fitting must be removed or, if possible, recrimped / repressed.

Care and maintenance

WARNING

- 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 Liion 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 of cordless tools and batteries

Transport

CAUTION

- 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

- 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.

The crimping / pressing tool is not in working order.

Malfunction	Possible cause	Action to be taken
The LEDs on the battery indi- c ate nothing.	The battery is not correctly in- serted.	▶ Push the battery in until it engages with a double click.

Malfunction	Possible cause	Action to be taken
The LEDs on the battery indi- cate nothing.	Battery is discharged.	▶ Change the battery and charge the empty battery.
	The battery is too hot or too cold.	▶ Allow the battery to cool down or to warm up to room temperature.
1 LED on the battery blinks.	Battery is discharged.	▶ Change the battery and charge the empty battery.
	The battery is too hot or too cold.	▶ Allow the battery to cool down or to warm up to room temperature.
4 LEDs on the battery blink.	Product momentarily overloaded.	▶ Allow the product to cool down.
Red LED => lights continu- ously and a warning tone is emitted.	Technical problem.	▶ Incorrect operation is possible! Contact Hilti Service.
Red LED => blinks at short intervals and a warning tone is emitted.	The state of charge of the battery is too low to allow a complete op- erating cycle.	▶ Change the battery and charge the empty battery.
Red LED => lights briefly and no warning tone is emitted.	Product overheated.	▶ Allow the product to cool down.

The crimping / pressing tool is in working order.

Trouble or fault	Possible cause	Action to be taken
The battery runs down more quickly than usual.	Very low ambient temperature.	▶ Allow the battery to warm up slowly to room temperature.
The battery does not engage with an audible double click.	The retaining lugs on the battery are dirty.	▶ Clean the retaining lugs and refit the battery.
Red LED => blinks at long intervals and a warning tone is emitted.	Crimping / pressing pressure not achieved (tool was used incorrect- ly).	▶ Make sure that the tool is used correctly and check the crimping / pressing if unsure.
Red LED => lights continu- ously and a warning tone is emitted.	Technical problem.	▶ Incorrect operation is possible! Contact Hilti Service.
Red LED => lights continu- ously and no warning tone is emitted.	Product maintenance necessary.	▶ Contact Hilti Service.

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!

RoHS (Restriction of Hazardous Substances)

Click on the link to go to the table of hazardous substances: **qr.hilti.com/r7794692**. There is a link to the RoHS table, in the form of a QR code, at the end of this document.

Manufacturer’s warranty

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

Documents / Resources

	**HILTI NPR 032 IE-A22 Pipe Press Tool** [pdf] Instruction Manual NPR 032 IE-A22 Pipe Press Tool, NPR 032 IE-A22, Pipe Press Tool, Press Tool, Tool

References

- **HILTI Country selector**
- **HILTI Country selector**
- **Официальный сайт - Hilti Россия**