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GBH Professional

36 V-Li | 36 VF-Li

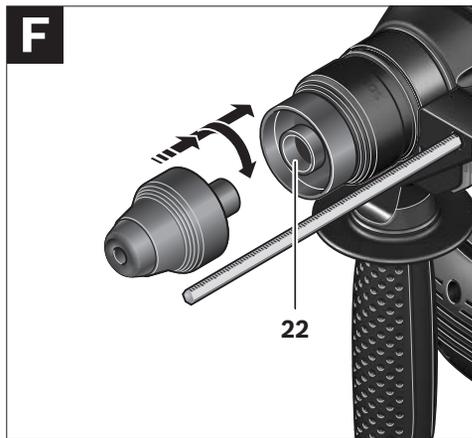
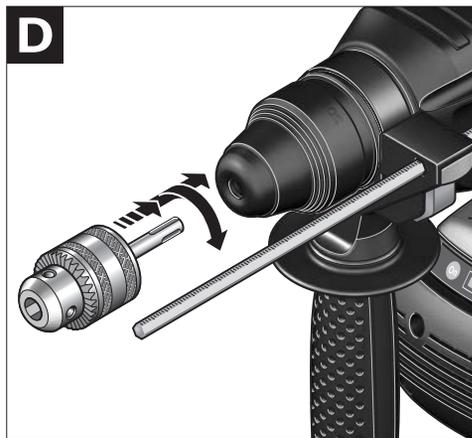
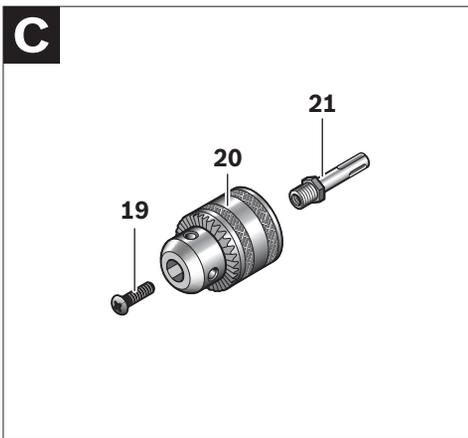
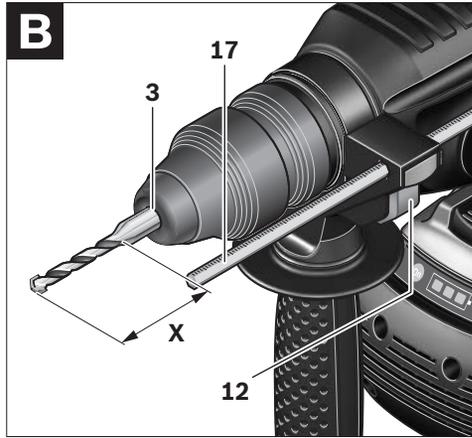
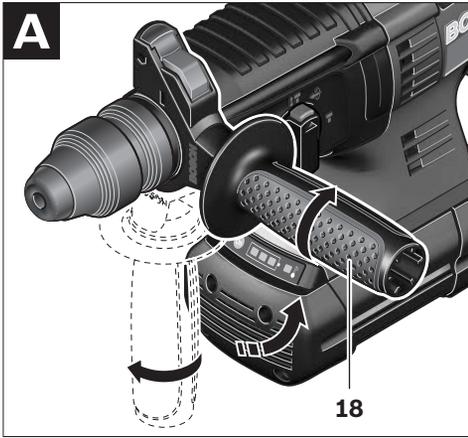


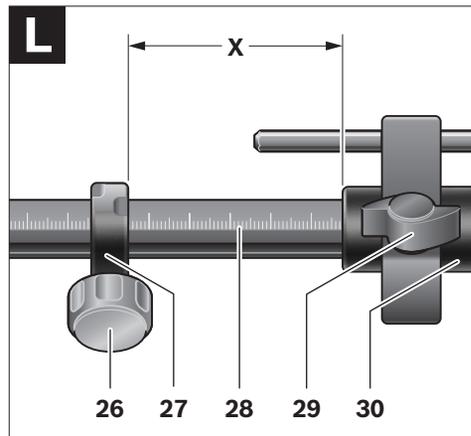
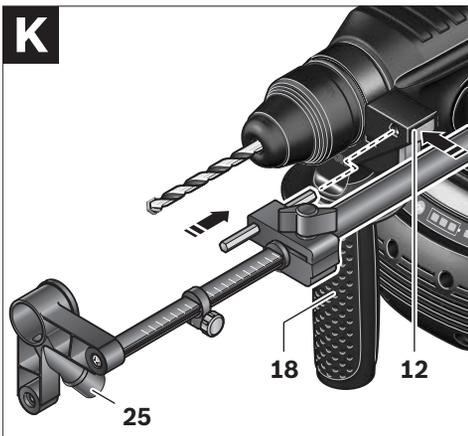
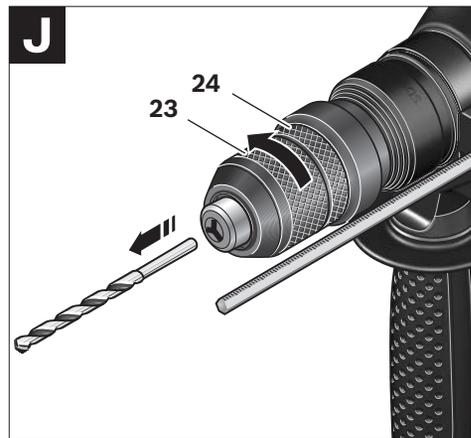
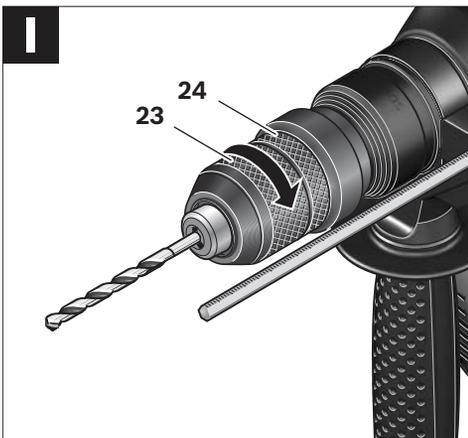
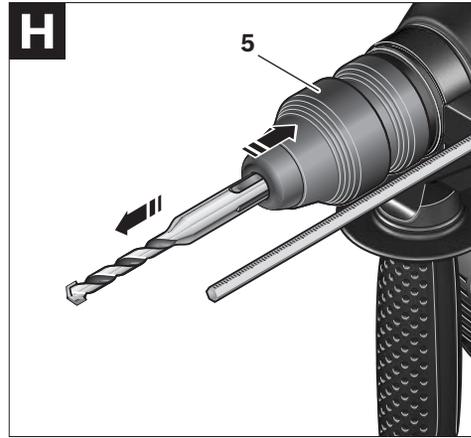
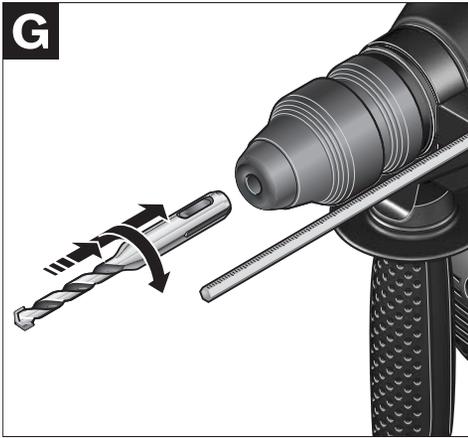
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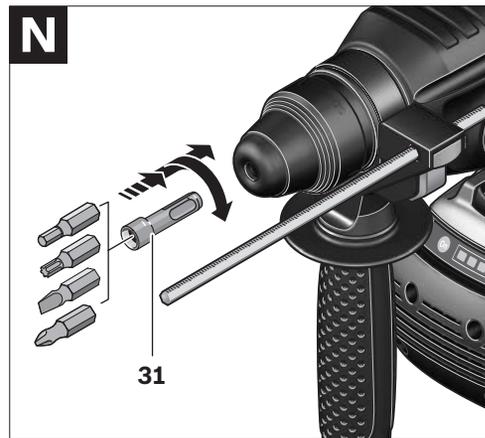
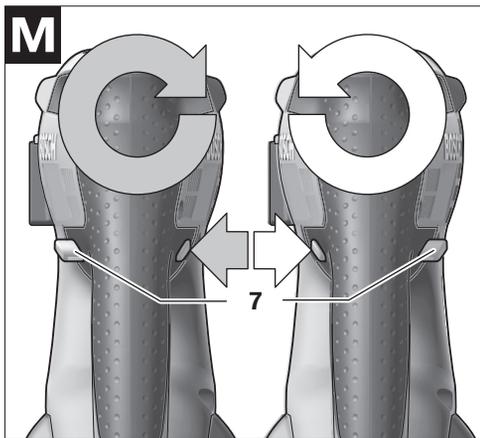
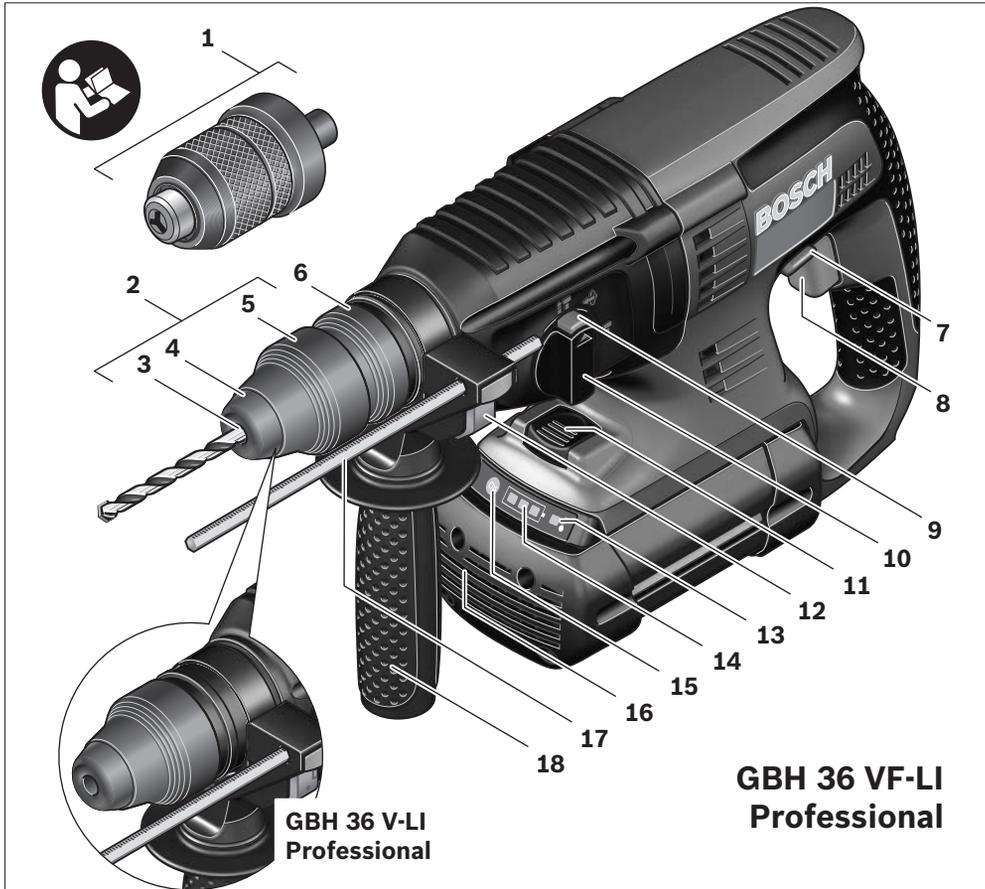
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sr Originalno uputstvo za rad
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General Power Tool Safety Warnings

⚠ 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.

- 1) **Work area safety**
 - a) **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
 - b) **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.
 - c) **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.
- 2) **Electrical safety**
 - a) **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.
 - b) **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.
 - c) **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
 - d) **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 and moving parts.** Damaged or entangled cords increase the risk of electric shock.
 - e) **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.
 - f) **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.
- 3) **Personal safety**
 - a) **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.
 - b) **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.
 - c) **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.
 - d) **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.
 - e) **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
 - f) **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.
 - g) **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.
- 4) **Power tool use and care**
 - a) **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.

- b) 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.
- c) 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.
- d) 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.
- e) 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.
- f) Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) 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.
- 5) Battery tool use and care**
- a) 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.
- b) Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- c) 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.
- d) 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.
- 6) Service**
- a) 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.

Machine-specific Safety Warnings

- ▶ **Wear hearing protection.** Exposure to noise can cause hearing loss.
- ▶ **Always use the auxiliary handle supplied with the machine.** Loss of control can cause personal injury.
- ▶ **Use appropriate detectors to determine if utility lines are hidden in the work area or call the local utility company for assistance.** Contact with electric lines can lead to fire and electric shock. Damaging a gas line can lead to explosion. Penetrating a water line causes property damage or may cause an electric shock.
- ▶ **When working with the machine, always hold it firmly with both hands and provide for a secure stance.** The power tool is guided more secure with both hands.
- ▶ **Secure the workpiece.** A workpiece clamped with clamping devices or in a vice is held more secure than by hand.
- ▶ **Do not work materials containing asbestos.** Asbestos is considered carcinogenic.
- ▶ **Take protective measures when dust can develop during working that is harmful to one's health, combustible or explosive.** Example: Some dusts are regarded as carcinogenic. Wear a dust mask and work with dust/chip extraction when connectable.

- ▶ **Keep your workplace clean.** Blends of materials are particularly dangerous. Dust from light alloys can burn or explode.
- ▶ **Always wait until the machine has come to a complete stop before placing it down.** The tool insert can jam and lead to loss of control over the power tool.
- ▶ **Avoid unintentional switching on. Ensure the On/Off switch is in the off position before inserting battery pack.** Carrying the power tool with your finger on the On/Off switch or inserting the battery pack into power tools that have the switch on invites accidents.
- ▶ **Do not open the battery.** Danger of short-circuiting.



Protect the battery against heat, e.g., also against continuous sun irradiation and fire. There is danger of explosion.

- ▶ **In case of damage and improper use of the battery, vapours may be emitted. Provide for fresh air and seek medical help in case of complaints.** The vapours can irritate the respiratory system.
- ▶ **When the battery is defective, liquid can escape and come into contact with adjacent components. Check any parts concerned.** Clean such parts or replace them, if required.

Functional Description



Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

While reading the operating instructions, unfold the graphics page for the machine and leave it open.

Intended Use

The machine is intended for hammer drilling in concrete, brick and stone, as well as for light chiselling work. It is also suitable for drilling without impact in wood, metal, ceramic and plastic. Machines with electronic control and right/left rotation are also suitable for screw-driving and thread cutting.

Product Features

The numbering of the product features refers to the illustration of the machine on the graphics page.

- 1 Quick change keyless chuck (GBH 36 VF-LI)
- 2 SDS-plus quick change chuck (GBH 36 VF-LI)
- 3 SDS-plus tool holder
- 4 Dust protection cap
- 5 Locking sleeve
- 6 Lock ring for rapid-change chuck (GBH 36 VF-LI)
- 7 Rotational direction switch
- 8 On/Off switch
- 9 Release button for mode selector switch
- 10 Mode selector switch
- 11 Battery unlocking button
- 12 Button for depth stop adjustment
- 13 Temperature control indicator
- 14 Battery charge-control indicator
- 15 Button for charge-control indicator
- 16 Battery*
- 17 Depth stop
- 18 Auxiliary handle
- 19 Securing screw for key type drill chuck*
- 20 Key type drill chuck*
- 21 SDS-plus adapter shank for drill chuck*
- 22 Drill chuck mounting (GBH 36 VF-LI)
- 23 Front sleeve of the quick change keyless chuck (GBH 36 VF-LI)
- 24 Retaining ring of the quick change keyless chuck (GBH 36 VF-LI)
- 25 Extraction sleeve of the dust extraction attachment*
- 26 Clamping screw for the dust extraction attachment*
- 27 Depth stop of the dust extraction attachment*
- 28 Telescopic pipe of the dust extraction attachment*
- 29 Wing bolt of the dust extraction attachment*
- 30 Guide pipe of the dust extraction attachment*
- 31 Universal bit holder with SDS-plus shank*

*The accessories illustrated or described are not included as standard delivery.

Technical Data

Rotary Hammer		GBH 36 V-LI Professional	GBH 36 VF-LI Professional
Article number		3 611 J00 R..	3 611 J01 R..
Speed control		●	●
Stop rotation		●	●
Right/left rotation		●	●
Quick change chuck		–	●
Rated voltage	V=	36	36
Rated power input	W	600	600
Output power	W	430	430
Impact frequency at rated speed	bpm	0–4260	0–4260
Impact energy per stroke	J	0–3.0	0–3.0
Rated speed			
– Right rotation	rpm	0–960	0–960
– Left rotation	rpm	0–930	0–930
Tool holder		SDS-plus	SDS-plus
Spindle collar diameter	mm	50	50
Drilling diameter, max.:			
– Concrete	mm	26	26
– Brickwork (with core bit)	mm	68	68
– Steel	mm	13	13
– Wood	mm	30	30
Weight according to EPTA-Procedure 01/2003	kg	4.3	4.5

Please observe the article number on the type plate of your machine. The trade names of the individual machines may vary.

Noise/Vibration Information

Measured values determined according to EN 60745.

Typically the A-weighted noise levels of the product are: Sound pressure level 91 dB(A); Sound power level 102 dB(A). Uncertainty K=3 dB.

Wear hearing protection!

Vibration total values (triax vector sum) determined according to EN 60745:

Hammer drilling into concrete: Vibration emission value $a_h = 20 \text{ m/s}^2$, Uncertainty $K = 1.5 \text{ m/s}^2$,
Chiselling: Vibration emission value $a_h = 13 \text{ m/s}^2$,
Uncertainty $K = 1.5 \text{ m/s}^2$.

WARNING The vibration emission level given in this information sheet has been measured in accordance with a standardised test given in EN 60745 and may be used to compare one tool with another.

The vibration emission level will vary because of the ways in which a power tool can be used and may increase above the level given in this information sheet. This could lead to a significant underestimate of exposure when the tool is used regularly in such a way.

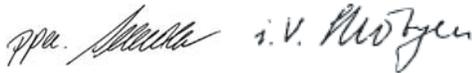
Note: To be accurate, an estimation of the level of exposure to vibration experienced during a given period of work should also take into account the times when the tool is switched off and when it is running but not actually doing the job. This may significantly reduce the exposure level over the total working period.

Declaration of Conformity

We declare under our sole responsibility that the product described under "Technical Data" is in conformity with the following standards or standardization documents: EN 60745 according to the provisions of the directives 2004/108/EC, 98/37/EC (until Dec. 28, 2009), 2006/42/EC (from Dec. 29, 2009 on).

Technical file at:
Robert Bosch GmbH, PT/ESC,
D-70745 Leinfelden-Echterdingen

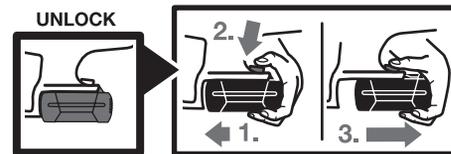
Dr. Egbert Schneider Senior Vice President Engineering
Dr. Eckerhard Strötgen Head of Product Certification



12.07.2007, Robert Bosch GmbH, Power Tools Division
D-70745 Leinfelden-Echterdingen

Removing the Battery

The battery **16** is equipped with two locking levels that should prevent the battery from falling out when pushing the battery unlocking button **11** unintentionally. As long as the battery is inserted in the power tool, it is held in position by means of a spring.



To remove the battery **16**:

- Push the battery against the base of the power tool (1.) and at the same time press the battery unlocking button **11** (2.).
- Pull the battery out of the power tool until a red stripe becomes visible (3.).
- Press the battery unlocking button **11** again and pull out the battery completely.

Battery Charge-control Indication

The three green LEDs of the battery charge-control indicator **14** indicate the charge condition of the battery **16**. For safety reasons, it is only possible to check the status of the charge condition when the machine is at a standstill.

Push button **15** to indicate the charge condition (also possible when the battery is removed). The battery charge-control indicator automatically goes out after approx. 5 seconds.

LED	Capacity
Continuous lighting 3 x green	$\geq 2/3$
Continuous lighting 2 x green	$\geq 1/3$
Continuous lighting 1 x green	$< 1/3$
Flashing light 1 x green	Reserve

When no LED lights up after pushing button **15**, then the battery is defective and must be replaced.

Assembly

Battery Charging

► **Use only the battery chargers listed on the accessories page.** Only these battery chargers are matched to the lithium ion battery of your power tool.

Note: The battery is supplied partially charged. To ensure full capacity of the battery, completely charge the battery in the battery charger before using your power tool for the first time.

The lithium ion battery can be charged at any time without reducing its service life. Interrupting the charging procedure does not damage the battery.

The Li-ion battery is protected against deep discharging by the "Electronic Cell Protection (ECP)". When the battery is empty, the machine is switched off by means of a protective circuit: The inserted tool no longer rotates.

⚠ WARNING Do not continue to press the On/Off switch after the machine has been automatically switched off. The battery can be damaged.

During the charging procedure, the three green LEDs light up one after the other and briefly go out. The battery is fully charged when the three green LEDs light up continuously. The three LEDs go out again approx. 5 minutes after the battery has been fully charged.

The battery is equipped with a NTC temperature control which allows charging only within a temperature range of between 0 °C and 45 °C. A long battery service life is achieved in this manner.

Auxiliary Handle

- **Operate your machine only with the auxiliary handle 18.**

Rotating the Auxiliary Handle (see figure A)

The auxiliary handle **18** can be set to any position for a secure and low-fatigue working posture.

Turn the bottom part of the auxiliary handle **18** in counterclockwise direction and swivel the auxiliary handle **18** to the desired position. Then retighten the bottom part of the auxiliary handle **18** by turning in clockwise direction.

Pay attention that the clamping band of the auxiliary handle is positioned in the groove on the housing as intended for.

Adjusting the Drilling Depth (see figure B)

The required drilling depth **X** can be set with the depth stop **17**.

Press the button for the depth stop adjustment **12** and insert the depth stop into the auxiliary handle **18**.

The knurled surface of the depth stop **17** must face downward.

Insert the SDS-plus drilling tool to the stop into the SDS-plus tool holder **3**. Otherwise, the movability of the SDS-plus drilling tool can lead to incorrect adjustment of the drilling depth.

Pull out the depth stop until the distance between the tip of the drill bit and the tip of the depth stop correspond with the desired drilling depth **X**.

Selecting Drill Chucks and Tools

For hammer drilling and chiselling, SDS-plus tools are required that are inserted in the SDS-plus drill chuck.

For drilling without impact in wood, metal, ceramic and plastic as well as for screwdriving and thread cutting, tools without SDS-plus are used (e.g., drills with cylindrical shank). For these tools, a keyless chuck or a key type drill chuck are required.

GBH 36 VF-LI: The SDS-plus quick change chuck **2** can easily be replaced against the quick change keyless chuck **1** provided.

Changing the Key Type Drill Chuck (GBH 36 V-LI)

To work with tools without SDS-plus (e.g., drills with cylindrical shank), a suitable drill chuck must be mounted (key type drill chuck or keyless chuck, accessories).

Mounting the Key Type Drill Chuck (see figure C)

Screw the SDS-plus adapter shank **21** into a key type drill chuck **20**. Secure the key type drill chuck **20** with the securing screw **19**. **Please observe that the securing screw has a left-hand thread.**

Inserting the Key Type Drill Chuck (see figure D)

Clean the shank end of the adapter shank and apply a light coat of grease.

Insert the key type drill chuck with the adapter shank into the tool holder with a turning motion until it automatically locks.

Check the locking effect by pulling the key type drill chuck.

Removing the Key Type Drill Chuck

Push the locking sleeve **5** toward the rear and pull out the key type drill chuck **20**.

Removing/Inserting the Quick Change Chuck (GBH 36 VF-LI)

Removing the Quick Change Chuck (see figure E)

Pull the lock ring for the quick change chuck **6** toward the rear, hold it in this position and pull off the SDS-plus quick change chuck **2** or the quick change keyless chuck **1** toward the front.

After removing, protect the replacement chuck against contamination.

Inserting the Quick Change Chuck (see figure F)

Before inserting, clean the quick change chuck and apply a light coat of grease to the shank end.

Grasp the SDS-plus quick change chuck **2** or the quick change keyless chuck **1** completely with your hand. Slide the quick change chuck with a turning motion onto the drill chuck mounting **22** until a distinct latching noise is heard.

The quick change chuck is automatically locked. Check the locking effect by pulling the quick change chuck.

Changing the Tool

The dust protection cap **4** largely prevents the entry of drilling dust into the tool holder during operation. When inserting the tool, take care that the dust protection cap **4** is not damaged.

- ▶ **A damaged dust protection cap should be changed immediately. We recommend having this carried out by an after-sales service.**

Inserting SDS-plus Drilling Tools (see figure G)

The SDS-plus drill chuck allows for simple and convenient changing of drilling tools without the use of additional tools.

GBH 36 VF-LI: Insert the SDS-plus quick change chuck **2**.

Clean and lightly grease the shank end of the tool.

Insert the tool in a twisting manner into the tool holder until it latches itself.

Check the latching by pulling the tool.

As a requirement of the system, the SDS-plus drilling tool can move freely. This causes a certain radial run-out at no-load, which has no effect on the accuracy of the drill hole, as the drill bit centres itself upon drilling.

Removing SDS-plus Drilling Tools (see figure H)

Push back the locking sleeve **5** and remove the tool.

Inserting Drilling Tools without SDS-plus (GBH 36 V-LI)

Note: Do not use tools without SDS-plus for hammer drilling or chiselling! Tools without SDS-plus and their drill chucks are damaged by hammer drilling or chiselling.

Insert a key type drill chuck **20** (see "Changing the Key Type Drill Chuck", page 24).

Open the key type drill chuck **20** by turning until the tool can be inserted. Insert the tool.

Insert the chuck key into the corresponding holes of the key type drill chuck **20** and clamp the tool uniformly.

Turn the mode selector switch **10** to the "drilling" position.

Removing Drilling Tools without SDS-plus (GBH 36 V-LI)

Turn the sleeve of the key type drill chuck **20** with the drill chuck key in anticlockwise direction until the drilling tool can be removed.

Inserting Drilling Tools without SDS-plus (GBH 36 VF-LI) (see figure I)

Note: Do not use tools without SDS-plus for hammer drilling or chiselling! Tools without SDS-plus and their drill chucks are damaged by hammer drilling or chiselling.

Insert the quick change keyless chuck **1**.

Firmly hold the retaining ring **24** of the quick change chuck. Open the tool holder by turning the front sleeve **23** until the tool can be inserted. Tightly hold the retaining ring **24** and firmly turn the front sleeve **23** in the direction of the arrow until a distinct latching noise can be heard.

Check the tight seating by pulling the tool.

Note: If the tool holder was opened to the stop, then the latching noise possibly may be heard while closing the tool holder and the tool holder will not close.

In this case, turn the front sleeve **23** once in the opposite direction of the arrow. Afterwards, the tool holder can be closed (tightened) again.

Turn the mode selector switch **10** to the “drilling” position.

Removing Drilling Tools without SDS-plus (GBH 36 VF-LI) (see figure J)

Firmly hold the retaining ring **24** of the quick change chuck. Open the tool holder by turning the front sleeve **23** in the direction of the arrow until the tool can be removed.

Dust Extraction with the Dust Extraction Attachment (Accessory)

Mounting the Dust Extraction Attachment (see figure K)

For dust extraction, the dust extraction attachment (accessory) is required. When drilling, the dust extraction attachment retracts so that the attachment head is always close to the surface at the drill hole.

Press the button for depth stop adjustment **12** and remove the depth stop **17**. Press button **12** again and insert the dust extraction attachment into the auxiliary handle **18** from the front.

Connect an extraction hose (diameter 19 mm, accessory) to the extraction sleeve **25** of the dust extraction attachment.

The vacuum cleaner must be suitable for the material being worked.

When vacuuming dry dust that is especially detrimental to health or carcinogenic, use a special vacuum cleaner.

Adjusting the Drilling Depth on the Dust Extraction Attachment (see figure L)

The required drilling depth **X** can also be adjusted when the dust extraction attachment is mounted.

Insert the SDS-plus drilling tool to the stop into the SDS-plus tool holder **3**. Otherwise, the movability of the SDS-plus drilling tool can lead to incorrect adjustment of the drilling depth.

Loosen the wing bolt **29** on the dust extraction attachment.

Without switching the power tool on, apply it firmly to the drilling location. The SDS-plus drilling tool must face against the surface.

Position the the guide pipe **30** of the dust extraction attachment in its holding fixture in such a manner that the head of the dust extraction attachment faces against the surface to be drilled. Do not slide the guide pipe **30** further over the telescopic pipe **28** of the dust extraction attachment than required, so that as much as possible of the scale **28** on the telescopic pipe remains visible.

Retighten the wing bolt **29** again. Loosen the clamping screw **26** on the depth stop of the dust extraction attachment.

Move the depth stop **27** on the telescopic pipe **28** in such a manner that the clearance **X** shown in the figure corresponds with the required drilling depth.

Tighten the clamping screw **26** in this position.

Operation

Starting Operation

Inserting the Battery

- **Use only original Bosch lithium ion batteries with the voltage listed on the nameplate of your power tool.** Using other batteries can lead to injuries and pose a fire hazard.

Set the rotational direction switch **7** to the centre position to protect the power tool against accidental starting.

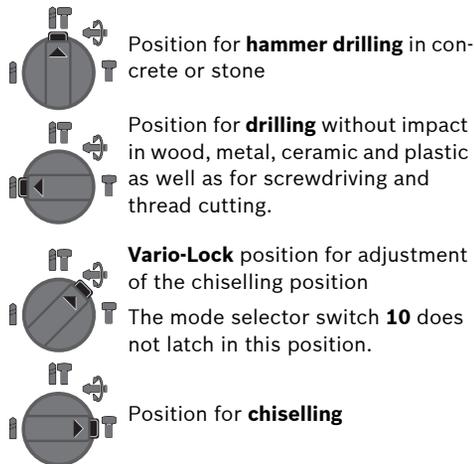
Insert the charged battery **16** from the front into the base of the power tool. Push the battery completely into the base until the red stripe can no longer be seen and the battery is securely locked.

Setting the Operating Mode

The operating mode of the power tool is selected with the mode selector switch **10**.

Note: Change the operating mode only when the machine is switched off! Otherwise, the machine can be damaged.

To change the operating mode, push the release button **9** and turn the mode selector switch **10** to the requested position until it can be heard to latch.



Reversing the Rotational Direction (see figure M)

The rotational direction switch **7** is used to reverse the rotational direction of the machine. However, this is not possible with the On/Off switch **8** actuated.

Right rotation: Push the rotational direction switch **7** left to the stop.

Left rotation: Push the rotational direction switch **7** right to the stop.

Set the direction of rotation for hammer drilling, drilling and chiselling always to right rotation.

Switching On and Off

To **start** the machine, press the On/Off switch **8**.

When starting the machine for the first time, a starting delay is possible, as the electronic system of the power tool has to configure itself first.

To **switch off** the machine, release the On/Off switch **8**.

Setting the Speed/Impact Rate

The speed/impact rate of the switched on power tool can be variably adjusted, depending on how far the On/Off switch **8** is pressed.

Light pressure on the On/Off switch **8** results in low speed/impact rate. Further pressure on the switch increases the speed/impact rate.

Overload Clutch

- ▶ **If the tool insert becomes caught or jammed, the drive to the drill spindle is interrupted. Because of the forces that occur, always hold the power tool firmly with both hands and provide for a secure stance.**
- ▶ **If the power tool jams, switch the machine off and loosen the tool insert. When switching the machine on with the drilling tool jammed, high reaction torques can occur.**

Temperature Control Indicator

The red LED of the temperature control indicator **13** signals that the battery or the electronics of the power tool (when the battery is inserted) are not within the optimum temperature range. In this case, the power tool will not operate at full capacity.

Temperature control of the battery:

- The red LED **13** lights up continuously after inserting the battery into the charger: The battery is not within the charging temperature range between 0 °C and 45 °C and cannot be charged.
- The red LED **13** flashes when pushing button **15** or pressing the On/Off switch **8** (when the battery is inserted): The battery is not within the temperature range for operation of -10 °C to +60 °C.
- The battery switches off at a temperature above 70 °C until the optimum temperature range is reached again.

Temperature control of the power tool electronics:

- The red LED **13** lights up continuously when pressing the On/Off switch **8**: The temperature of the power tool electronics is above 75 °C.
- At a temperature above 90 °C, the electronics of the power tool switch off until the temperature is within the allowable temperature range again.

Operating Instructions

Changing the Chiselling Position (Vario-Lock)

The chisel can be locked in 36 positions. In this manner, the optimum working position can be set for each application.

Insert the chisel into the tool holder.

Turn the mode selector switch **10** to the "Vario-Lock" position (see "Setting the Operating Mode", page 27).

Turn the tool holder to the desired chiselling position.

Turn the mode selector switch **10** to the "chiselling" position. The tool holder is now locked.

For chiselling, set the rotation direction to right rotation.

Inserting Screwdriver Bits (see figure N)

► **Apply the power tool to the screw/nut only when it is switched off.** Rotating tool inserts can slip off.

To work with screwdriver bits, a universal bit holder **31** with SDS-plus shank (accessory) is required.

Clean the shank end of the adapter shank and apply a light coat of grease.

Insert the universal bit holder with a turning motion into the tool holder until it automatically locks. Check the locking effect by pulling the universal bit holder.

Insert a screwdriver bit into the universal bit holder. Use only screwdriver bits that match the screw head.

To remove the universal bit holder, pull the locking sleeve **5** toward the rear and remove the universal bit holder **31** out of the tool holder.

Recommendations for Optimal Handling of the Battery

Protect the battery against moisture and water. Store the battery only within a temperature range between 0 °C and 45 °C. As an example, do not leave the battery in the car in summer. Occasionally clean the venting slots of the battery using a soft, clean and dry brush.

A significantly reduced working period after charging indicates that the battery is used and must be replaced.

Observe the notes for disposal.

Maintenance and Service

Maintenance and Cleaning

► **Before any work on the machine itself (e.g. maintenance, tool change, etc.) as well as during transport and storage, remove the battery from the power tool.** There is danger of injury when unintentionally actuating the On/Off switch.

► **For safe and proper working, always keep the machine and ventilation slots clean.**

► **A damaged dust protection cap should be changed immediately. We recommend having this carried out by an after-sales service.**

Clean the tool holder **3** each time after using.

If the machine should fail despite the care taken in manufacturing and testing procedures, repair should be carried out by an after-sales service centre for Bosch power tools.

In all correspondence and spare parts order, please always include the 10-digit article number given on the type plate of the machine.

After-sales service and customer assistance

Our after-sales service responds to your questions concerning maintenance and repair of your product as well as spare parts. Exploded views and information on spare parts can also be found under:

www.bosch-pt.com

Our customer consultants answer your questions concerning best buy, application and adjustment of products and accessories.

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Denham

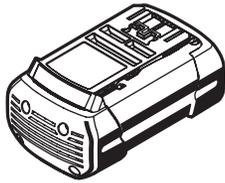
Uxbridge

UB 9 5HJ

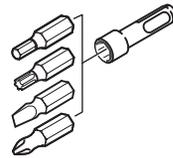
Tel. Service: +44 (0844) 736 0109

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E-Mail: SPT-Technical.de@de.bosch.com



2 607 336 004
36 V, 2 Ah
2 607 336 108
36 V, 2,6 Ah



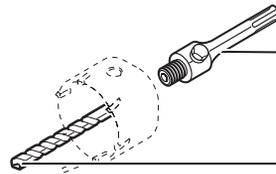
2 607 000 207



AL 3640 CV
2 607 225 100 (EU)
2 607 225 102 (UK)
2 607 225 104 (AUS)
2 607 225 110 (JP)
2 607 225 112 (ROK)

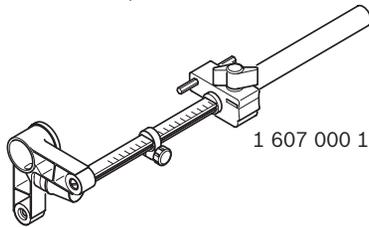


2 608 550 074 (Ø 40 mm)
2 608 550 075 (Ø 50 mm)
2 608 550 076 (Ø 68 mm)



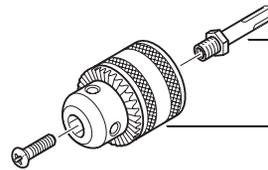
2 608 550 057
SDS-plus

2 608 596 157
(Ø 8 mm)



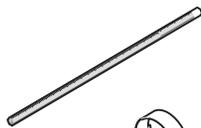
1 607 000 173

GBH 36 V-LI



1 617 000 132
SDS-plus

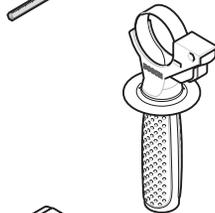
1 608 571 062
Ø 1,5–13 mm



1 613 001 010



1 607 950 045

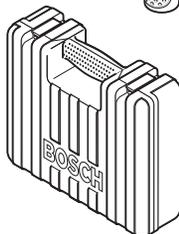


2 602 025 141

GBH 36 VF-LI



2 608 572 212
Ø 50 mm



2 605 438 179



2 608 572 213
SDS-plus
Ø 50 mm