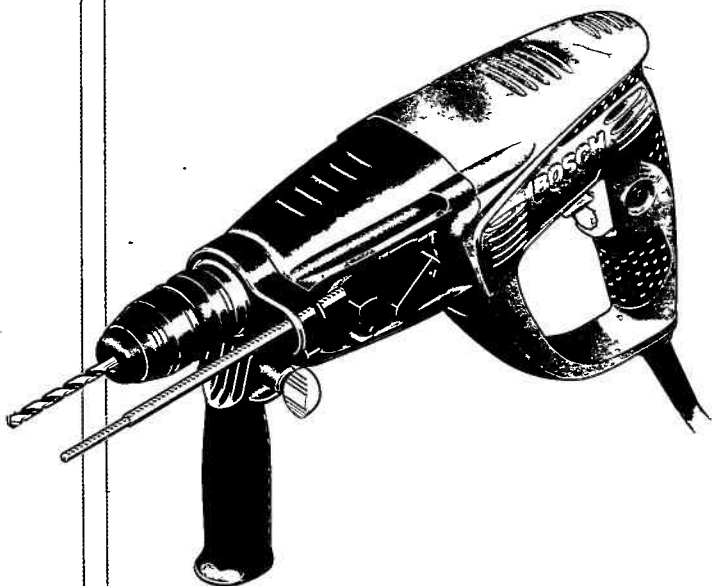


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Operating instructions
Instructions d'emploi
Instrucciones de servicio
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Οδηγία χειρισμού
Kullanım kılavuzu



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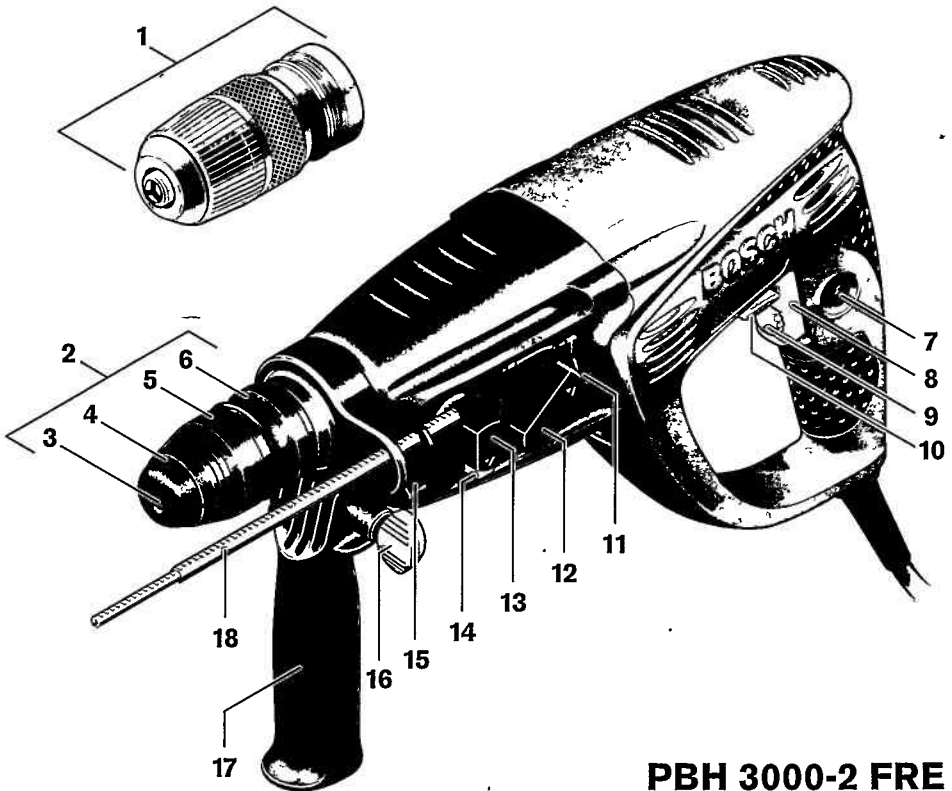
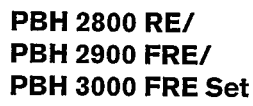
PBH 2800 RE
PBH 2900 FRE
PBH 3000 FRE Set
PBH 3000-2 FRE



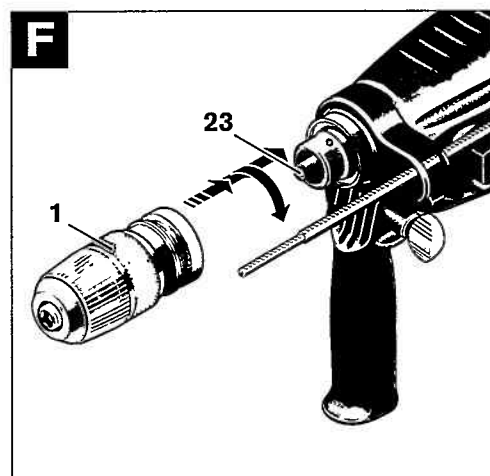
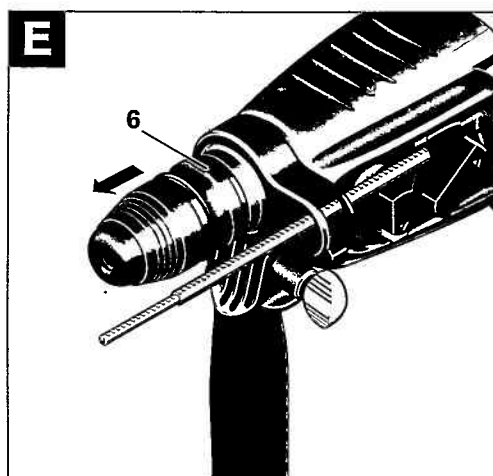
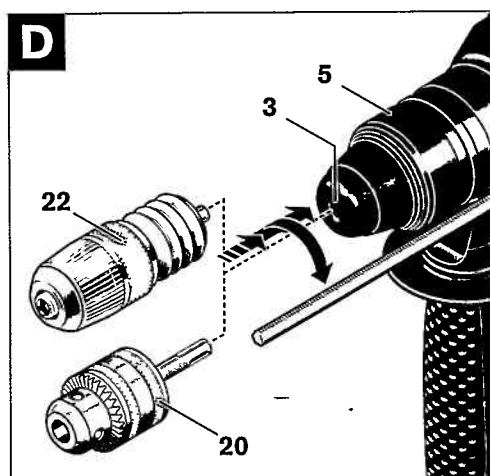
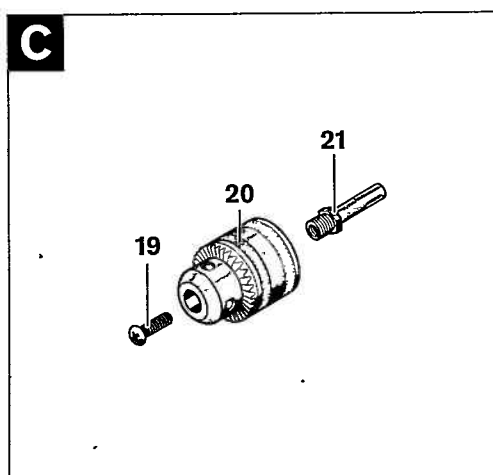
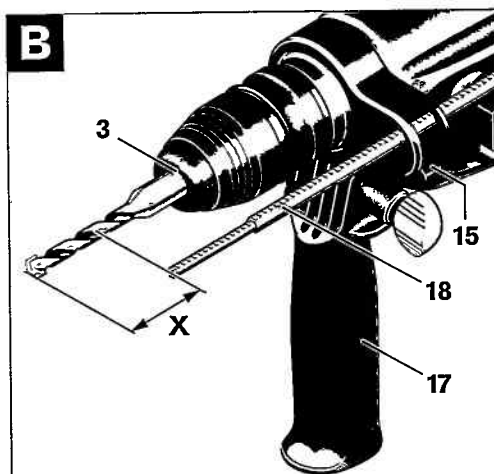
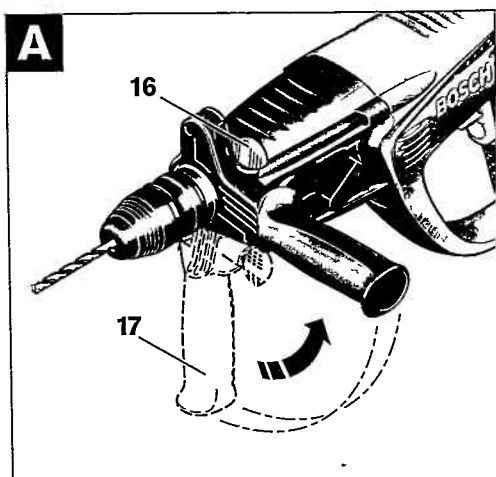
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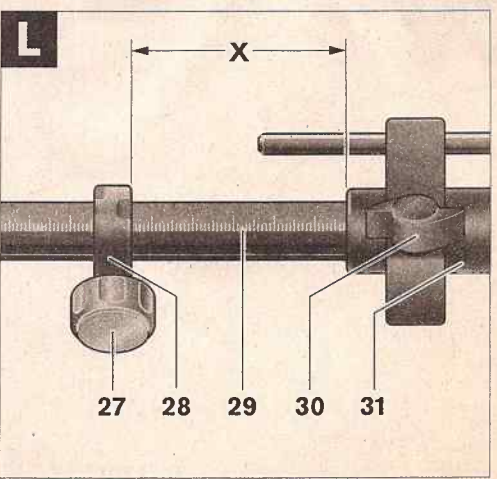
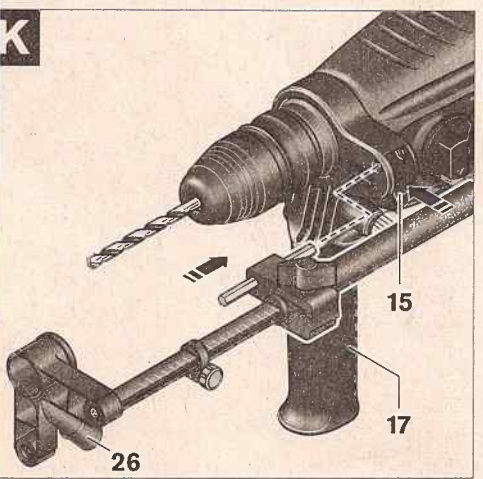
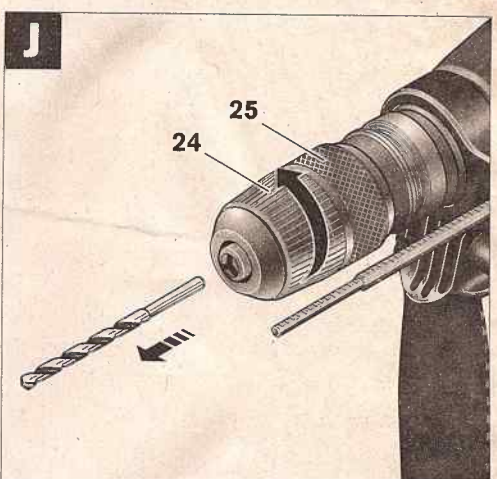
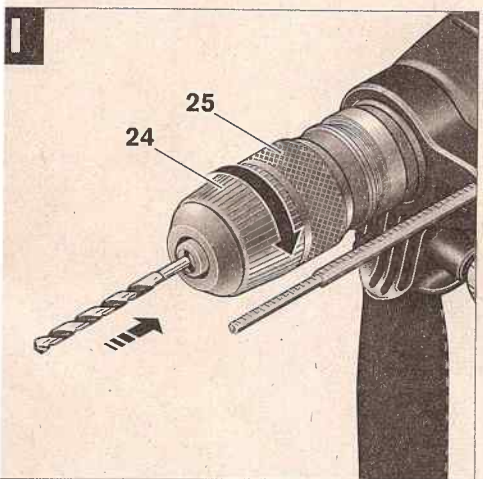
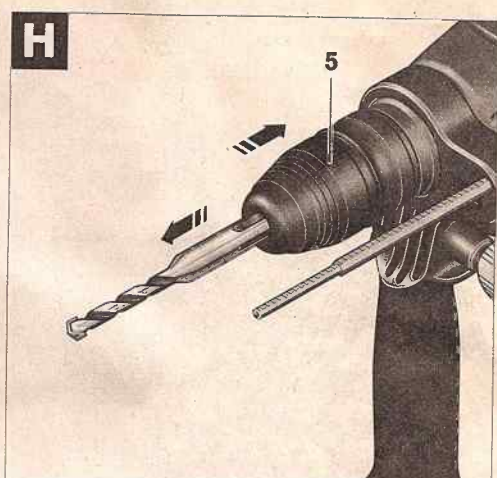
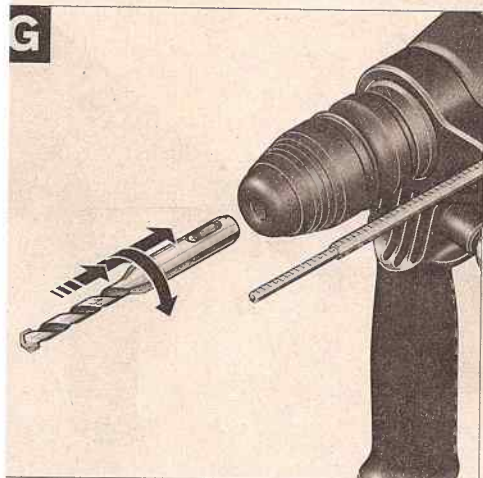


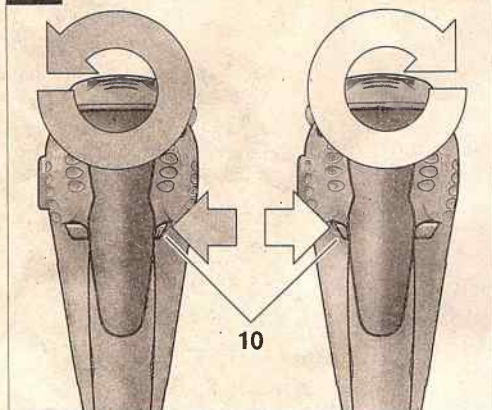
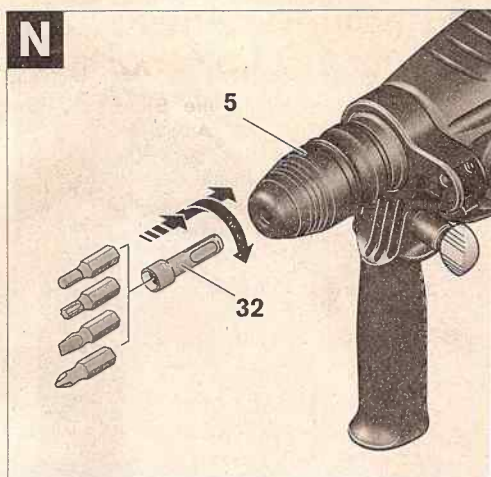
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PBH 3000-2 FRE





M**N**

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.

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 suitable 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.

► **Never use the machine with a damaged cable. Do not touch the damaged cable and pull the mains plug when the cable is damaged while working.** Damaged cables increase the risk of an electric shock.

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.

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 screwdriving 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 (PBH 3000-2 FRE)
- 2 SDS-plus quick change chuck (PBH 3000-2 FRE)
- 3 SDS-plus tool holder
- 4 Dust protection cap
- 5 Locking sleeve
- 6 Lock ring for rapid-change chuck (PBH 3000-2 FRE)
- 7 Lock-on button for On/Off switch
- 8 On/Off switch
- 9 Thumbwheel for speed preselection
- 10 Rotational direction switch
- 11 Release button for mode selector switch
- 12 Mode selector switch
- 13 Gear selector (PBH 3000-2 FRE)
- 14 Release button for gear selector (PBH 3000-2 FRE)
- 15 Button for depth stop adjustment
- 16 Wing bolt for adjustment of auxiliary handle
- 17 Auxiliary handle
- 18 Depth stop

- 19 Securing screw for key type drill chuck*
- 20 Key type drill chuck*
- 21 SDS-plus adapter shank for drill chuck*
- 22 Keyless chuck (PBH 2900 FRE/
PBH 3000 FRE Set)
- 23 Drill chuck mounting (PBH 3000-2 FRE)
- 24 Front sleeve (PBH 2900 FRE/
PBH 3000 FRE Set/PBH 3000-2 FRE)
- 25 Rear sleeve (PBH 2900 FRE/
PBH 3000 FRE Set/PBH 3000-2 FRE)
- 26 Extraction sleeve of the dust extraction attachment*
- 27 Clamping screw for the dust extraction attachment*
- 28 Depth stop of the dust extraction attachment*
- 29 Telescopic pipe of the dust extraction attachment*
- 30 Wing bolt of the dust extraction attachment*
- 31 Guide pipe of the dust extraction attachment*
- 32 Universal bit holder with SDS-plus shank*

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

Noise/Vibration Information

Measured values determined according to EN 60745.

Typically the A-weighted noise levels of the product are: Sound pressure level 89 dB(A); Sound power level 100 dB(A). Uncertainty K=2 dB.

Wear hearing protection!

Vibration total values (tri-ax vector sum) determined according to EN 60745:

Hammer drilling into concrete: Vibration emission value $a_h = 14 \text{ m/s}^2$, Uncertainty K=1.5 m/s^2 ,

Chiselling: Vibration emission value $a_h = 12 \text{ m/s}^2$, Uncertainty K=1.5 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.

Technical Data

Rotary Hammer PBH ...		2800 RE	2900 FRE	3000 FRE Set	3000-2 FRE
Article number		3 603 C93 0..	3 603 C93 1..	3 603 C93 2..	3 603 C94 2..
Speed preselection		●	●	●	●
Stop rotation		●	●	●	●
Right/left rotation		●	●	●	●
Quick change chuck		—	—	—	●
Delivery Scope					
— Keyless drill chuck		—	●	●	●
Rated power input	W	720	730	750	750
Impact frequency at rated speed	bpm	4000	4000	4000	4000
Impact energy per stroke	J	0–2.6	0–2.7	0–2.8	0–2.8
Rated speed	rpm	1100	1100	1100	1100
No-load speed					
— 1st gear	rpm	0–1450	0–1450	0–1450	0–1450
— 2nd gear	rpm	—	—	—	0–3000
Tool holder		SDS-plus	SDS-plus	SDS-plus	SDS-plus
Spindle collar diameter	mm	43 (Euro-Norm)	43 (Euro-Norm)	43 (Euro-Norm)	43 (Euro-Norm)
Drilling diameter, max.:					
— Concrete	mm	26	26	26	26
— Brickwork (with core bit)	mm	68	68	68	68
— Steel	mm	13	13	13	13
— Wood	mm	30	30	30	30
Weight according to EPTA-Procedure 01/2003	kg	3.0	3.0	3.0	3.0
Protection class		□ / II	□ / II	□ / II	□ / II

The values given are valid for nominal voltages [U] of 230/240 V. For lower voltage and models for specific countries, these values can vary.


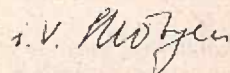
Please observe the article number on the type plate of your machine. The trade names of the individual machines may vary.

Declaration of Conformity

We declare under our sole responsibility that this product is in conformity with the following standards or standardization documents: EN 60745 according to the provisions of the directives 89/336/EEC, 98/37/EC.

Dr. Egbert Schneider
Senior Vice President
Engineering

Dr. Eckerhard Strötgen
Head of Product
Certification

9.03.2007, Robert Bosch GmbH, Power Tools Division
D-70745 Leinfelden-Echterdingen

Assembly

- ▶ **Before any work on the machine itself, pull the mains plug.**

Auxiliary Handle

- ▶ **Operate your machine only with the auxiliary handle 17.**

Rotating the Auxiliary Handle (see figure A)

The auxiliary handle 17 can be set to any position for a secure and low-fatigue working posture.

Turn the wing bolt for adjustment of the auxiliary handle 16 in anticlockwise direction and set the auxiliary handle 17 to the required position. Then tighten the wing bolt 16 again in clockwise direction.

Adjusting the Drilling Depth (see figure B)

The required drilling depth X can be set with the depth stop 18.

Press the button for the depth stop adjustment 15 and insert the depth stop into the auxiliary handle 17.

The knurled surface of the depth stop 18 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 corresponds 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.

PBH 3000-2 FRE: The SDS-plus quick change chuck 2 can easily be replaced against the quick change keyless chuck 1 provided.

Replacing the Drill Chuck (PBH 2800 RE/PBH 2900 FRE/ PBH 3000 FRE Set)

To work with drilling tools without SDS-plus (e.g., drill bits with cylindrical shank), the key type drill chuck or the keyless chuck must be mounted.

Mounting the Key Type Drill Chuck (Accessory) (PBH 2800 RE) (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 or the Keyless 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 20 or the keyless chuck 22 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 or the keyless chuck.

Removing the Key Type Drill Chuck or the Keyless Chuck

Push the locking sleeve 5 toward the rear and pull out the key type drill chuck 20 or the keyless chuck 22.

Removing/Inserting the Quick Change Chuck (PBH 3000-2 FRE)

Removing the Quick Change Chuck (see figure E)

Grasp the lock ring of the quick change chuck 6 and pull it firmly in the direction of the arrow. The quick change chuck is released and can be removed 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 **23** 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.

PBH 3000-2 FRE: 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 into the Key Type Drill Chuck (PBH 2800 RE)

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 key type drill chuck **20**.

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 **12** to the "drilling" position.

Removing Drilling Tools without SDS-plus from the Key Type Drill Chuck (PBH 2800 RE)

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 into the Keyless Chuck

(PBH 2900 FRE/PBH 3000 FRE Set/
PBH 3000-2 FRE) (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.
PBH 2900 FRE/PBH 3000 FRE Set: Insert the keyless chuck **22**.

PBH 3000-2 FRE: Insert the quick change keyless chuck **1**.

Hold the rear sleeve **25** of the keyless chuck **22** and turn the front sleeve **24** in anticlockwise direction until the tool can be inserted. Insert the tool.

Tightly hold the rear sleeve of the keyless chuck **22** and firmly turn the front sleeve clockwise by hand until the locking action is no longer heard. This automatically locks the drill chuck.

Check the tight seating by pulling the tool.

Note: If the tool holder was opened to the stop, then a 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 **24** once in anticlockwise direction. Afterwards, the tool holder can be closed (tightened).

Turn the mode selector switch **12** to the "drilling" position.

Removing Drilling Tools without SDS-plus from the Keyless Chuck

(PBH 2900 FRE/PBH 3000 FRE Set/
PBH 3000-2 FRE) (see figure J)

Firmly hold the rear sleeve **25** of the keyless chuck and turn the front sleeve **24** of the keyless chuck in anticlockwise direction until the drilling 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 **15** and remove the depth stop **18**. Press button **15** again and insert the dust extraction attachment into the auxiliary handle **17** from the front.

Connect an extraction hose (diameter 19 mm, accessory) to the extraction sleeve **26** 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 **30** 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 guide pipe **31** 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 **31** further over the telescopic pipe **29** of the dust extraction attachment than required, so that as much as possible of the scale **29** on the telescopic pipe remains visible.

Tighten the wing bolt **30** again. Loosen the clamping screw **27** on the depth stop of the dust extraction attachment.

Move the depth stop **28** on the telescopic pipe **29** in such a manner that the clearance **X** shown in the figure corresponds with the required drilling depth.

Tighten the clamping screw **27** in this position.

Operation

Starting Operation

- ▶ **Observe correct mains voltage! The voltage of the power source must agree with the voltage specified on the nameplate of the machine. Power tools marked with 230 V can also be operated with 220 V.**

Setting the Operating Mode

The operating mode of the power tool is selected with the mode selector switch **12**.

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 **11** and turn the mode selector switch **12** to the requested position until it can be heard to latch.

PBH 2800 RE/PBH 2900 FRE/PBH 3000 FRE Set



Position for **drilling** without impact in wood, metal, ceramic and plastic as well as for screwdriving and thread cutting.



Position for **hammer drilling** in concrete or stone



Vario-Lock position for adjustment of the chiselling position

The mode selector switch **12** does not latch in this position.



Position for **chiselling**

PBH 3000-2 FRE

For the operating modes hammer drilling, Vario-Lock and chiselling, the gear selector **13** must be set to 1st gear.



Position for **drilling** without impact (1st gear) in wood, metal, ceramic and plastic as well as for screwdriving and thread cutting



Position for **drilling** without impact (2nd gear) in wood, metal, ceramic and plastic



Position for **hammer drilling** in concrete or stone



Vario-Lock position for adjustment of the chiselling position

The mode selector switch **12** does not latch in this position.



Position for **chiselling**

Reversing the Rotational Direction (see figure M)

The rotational direction switch **10** 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 **10** rightward to the stop.

⚙ **Left rotation:** Push the rotational direction switch **10** leftward 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**.

To **lock** the On/Off switch, keep it pressed and additionally push the lock-on button **7**.

To **switch off** the machine, release the On/Off switch **8**. When the On/Off switch **8** is locked, press it first and then release it.

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.

Preselecting the Speed/Impact Frequency

The required speed can be preselected with the thumbwheel **9** (also while running).

Due to the limitation, the On/Off switch **8** can only be pulled through to the preset limit.

Gear Selection, Mechanical (PBH 3000-2 FRE)

Two speed ranges can be preselected with the gear selector **13**.

1st gear:

Low speed range; for hammer drilling, chiselling, drilling with large drilling diameter, screwdriving and thread cutting.

2nd gear:

High speed range; for drilling with small drilling diameter.

To change gear, push the release button **11** on the mode selector switch **12** and turn the mode selector switch to the "drilling" position. Then push the release button **14** on the gear selector **13** and turn the gear selector to 2nd gear.

Note: The mode selector switch **12** may only be turned when the machine is switched off. The machine should also be switched off when turning the gear selector **13**.

Hammer drilling and chiselling is possible only in 1st gear. In these operating modes, the special shape of the gear selector **13** and mode selector switch **12** do not allow switching to 2nd gear.

Before changing the operating mode from drilling to hammer drilling, Vario-Lock or chiselling, the gear selector **13** must be set back to 1st gear.

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.

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 **12** to the "Vario-Lock" position (see "Setting the Operating Mode", page 21)

Turn the tool holder to the desired chiselling position.

Turn the mode selector switch **12** 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 **32** 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 **32** out of the tool holder.

Maintenance and Service

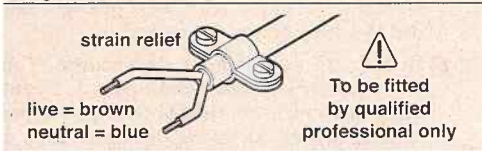
Maintenance and Cleaning

- ▶ Before any work on the machine itself, pull the mains plug.
- ▶ 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.

WARNING! Important instructions for connecting a new 3-pin plug to the 2-wire cable.

The wires in the cable are coloured according to the following code:



Do **not** connect the blue or brown wire to the earth terminal of the plug.

Important: If for any reason the moulded plug is removed from the cable of this power tool, it must be disposed of safely.

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.

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

Service and Customer Assistance

Exploded views and information on spare parts can be found under:

www.bosch-pt.com

Great Britain

Robert Bosch Ltd. (B.S.C.)

P.O. Box 98

Broadwater Park

North Orbital Road

Denham-Uxbridge

Middlesex UB 9 5HJ

Service: +44 (0) 18 95 / 83 87 82

Advice line: +44 (0) 18 95 / 83 87 91

Fax: +44 (0) 18 95 / 83 87 89

Ireland

Origo Ltd.

Unit 23 Magna Drive

Magna Business Park

City West

Dublin 24

Service: +353 (0) 1 / 4 66 67 00

Fax: +353 (0) 1 / 4 66 68 88

Australia and New Zealand

Robert Bosch Australia Pty. Ltd.

RBAU/SPT

1555 Centre Road

P.O. Box 66

3168 Clayton/Victoria

Service: +61 (0) 1 / 3 00 30 70 44

Fax: +61 (0) 1 / 3 00 30 70 45

www.bosch.com.au

Disposal

The machine, accessories and packaging should be sorted for environmental-friendly recycling.

Only for EC countries:

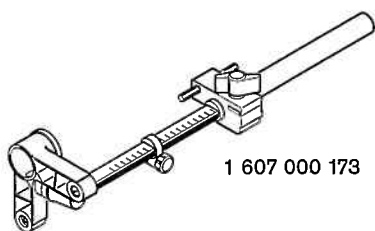


Do not dispose of power tools into household waste!

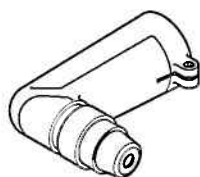
According the European Guideline 2002/96/EC for Waste Electrical and Electronic Equipment and its implementation into national right, power tools

that are no longer usable must be collected separately and disposed of in an environmentally correct manner.

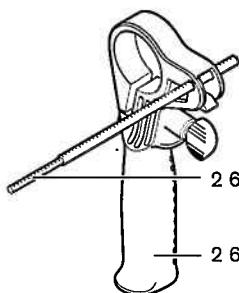
Subject to change without notice.



1 607 000 173

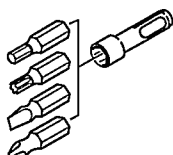


1 618 580 000
SDS-plus

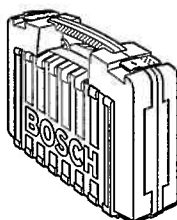


2 603 001 009

2 602 025 125

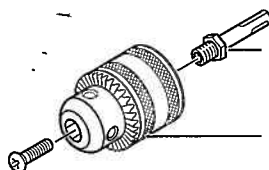


2 607 000 207



1 615 438 434

PBH 2800 RE



1 617 000 132
SDS-plus

1 608 571 062
Ø 1,5–13 mm



1 607 950 045

PBH 2800 RE/2900 FRE/ 3000 FRE Set



1 618 571 033

PBH 3000-2 FRE



1 608 572 032



1 617 000 352