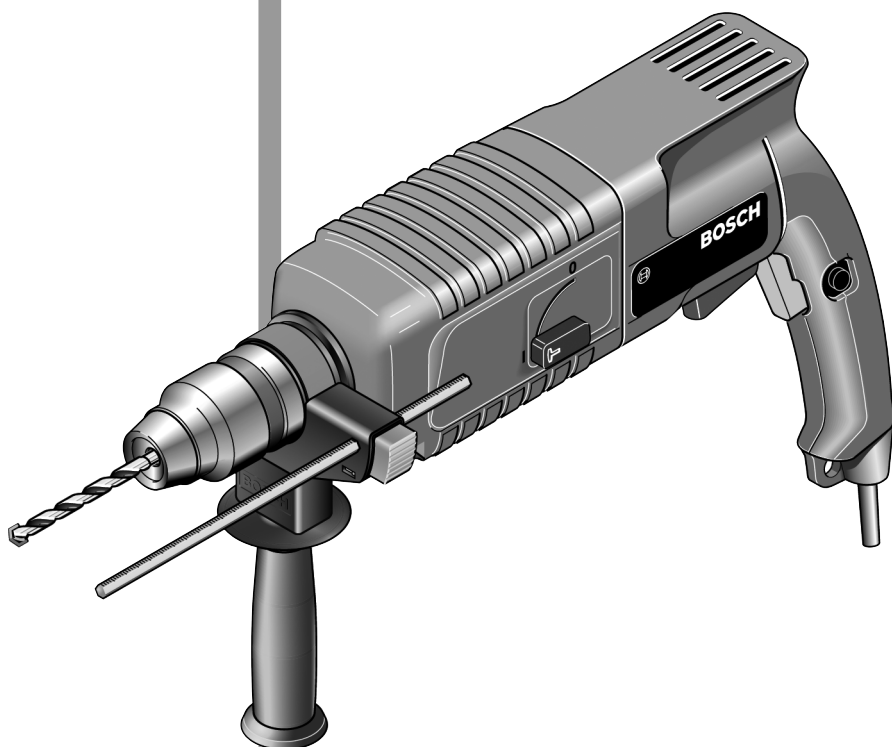


Operating instructions

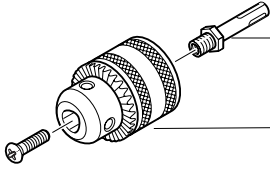
BOSCH

GBH 2 POWER PLUS



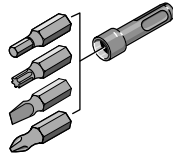
English



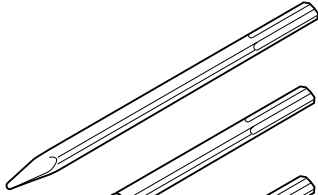


1 617 000 132
SDS-plus

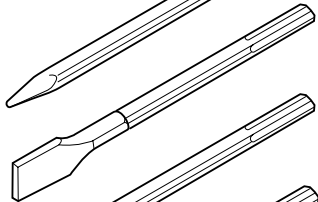
1 608 571 062
Ø 1,5–13 mm



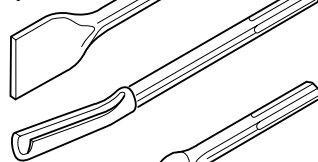
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1 618 600 009



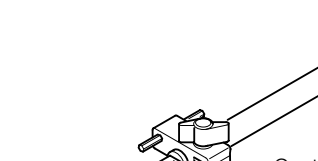
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1 618 601 002

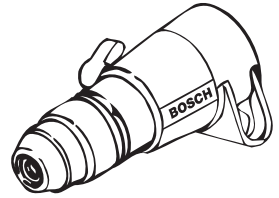


1 618 601 004

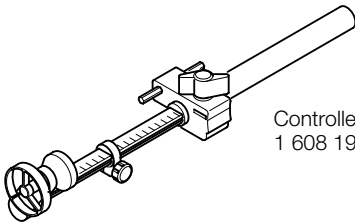


1 608 690 014 (130 mm)

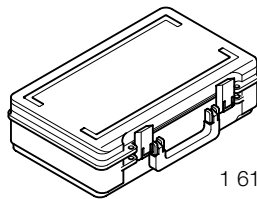
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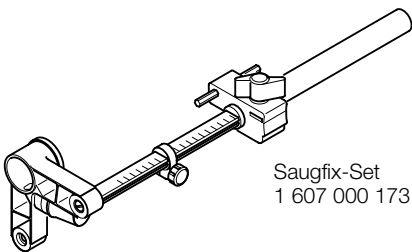
MV 200
2 607 018 296



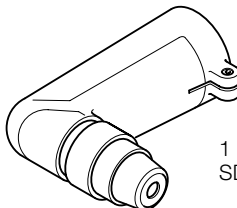
Controller
1 608 190 006



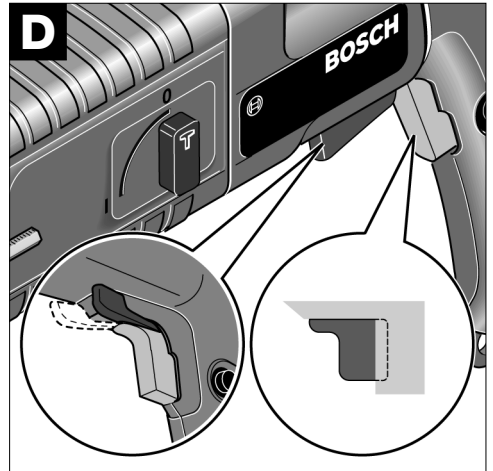
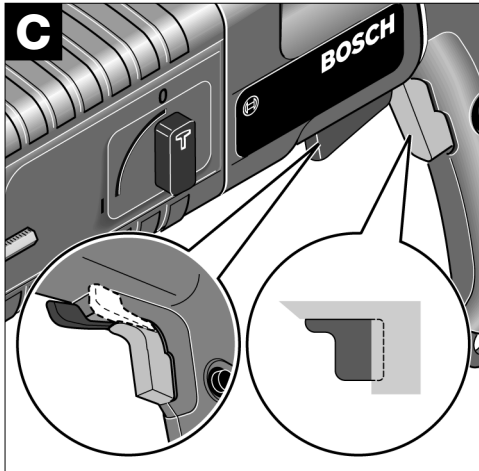
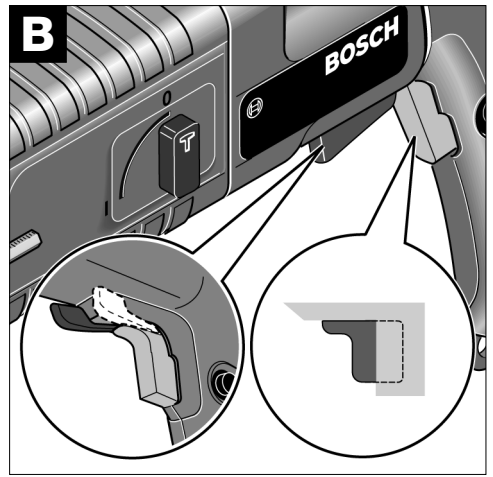
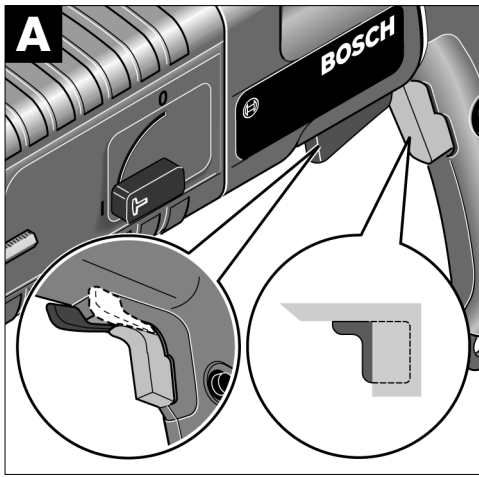
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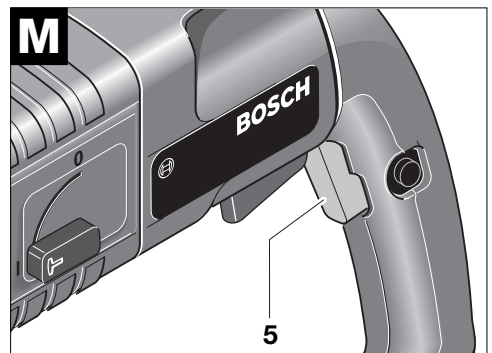
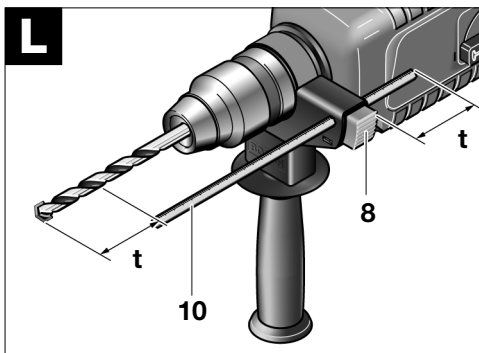
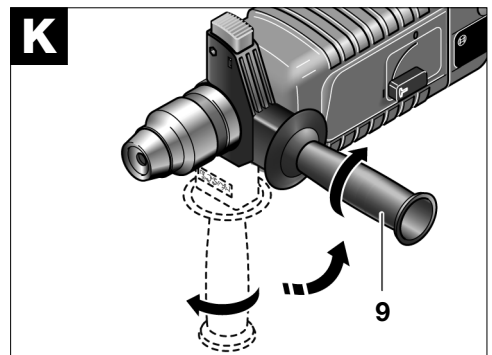
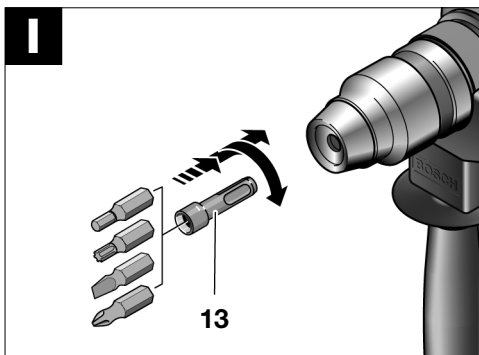
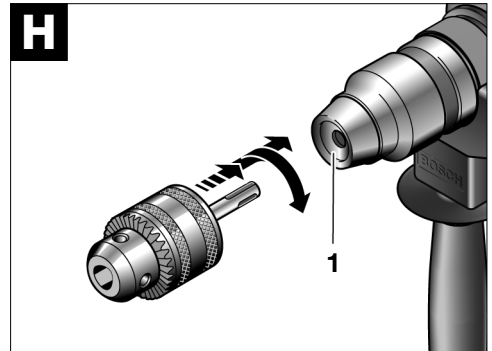
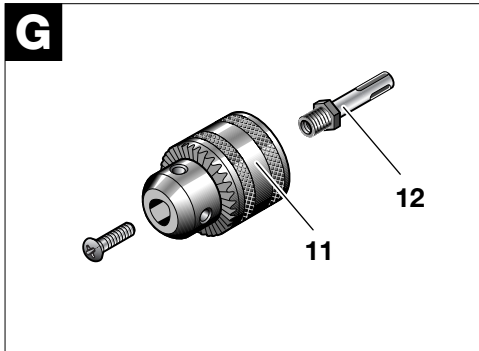
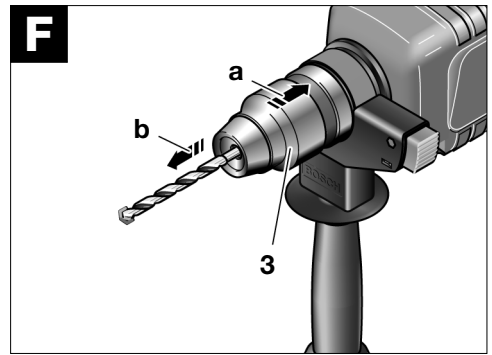
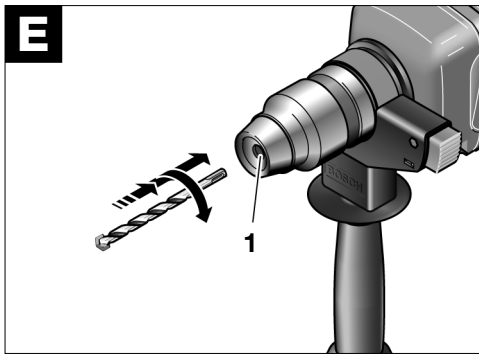


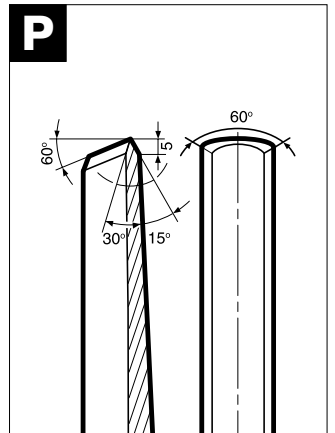
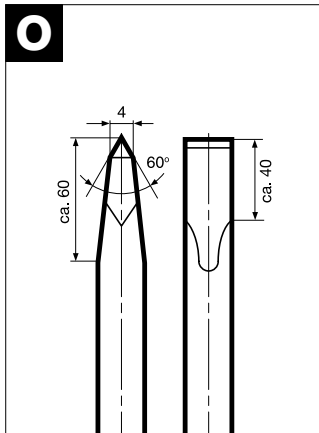
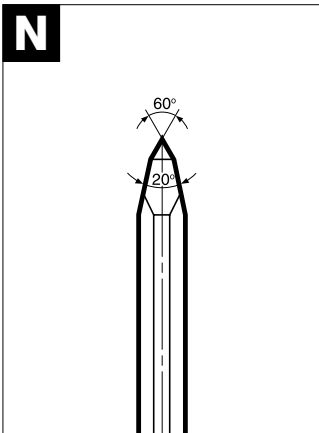
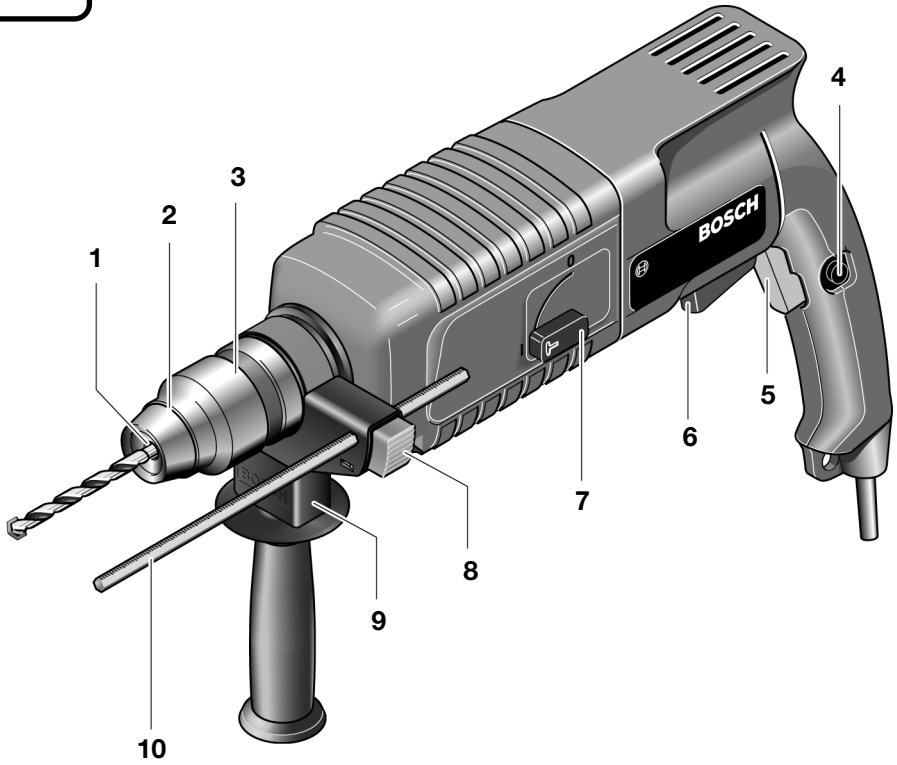
Saugfix-Set
1 607 000 173



1 618 580 000
SDS-plus







Product Specifications

Percussion drill		GBH 2 POWER PLUS	
Order number		0 611 234 7..	
Speed control		●	
Right/Left rotation		●	
Rated input power	[W]	500	
Power output	[W]	300	
Impact rate	[per min]	0 ... 3900	
Impact energy per stroke	[J]	1.5	
Nominal speed	[RPM]	0 ... 850	
Tool holder SDS-plus		●	
Spindle collar diameter	[mm]	43 (Euro-Standard)	
Maximum drill diameter:			
Concrete	[mm]	20	
Wood	[mm]	30	
Steel	[mm]	13	
Weight without mains cable approx.	[kg]	2.45	
Protection class		□ / II	

Please observe the order number of your machine. The trade names of the individual machines may vary.

Noise/Vibration Information

Measured values determined according to EN 50 144.

The A-weighted noise levels of the tool are typically:

Sound pressure level: 88 dB(A)

Sound power level: 101 dB(A)

Wear ear protection!

The typically weighted acceleration is 11 m/s².

Intended Use

The machine is intended for hammer drilling in concrete, brick and stone. It is likewise 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 Elements

The numbering of the product elements refers to the illustration on the fold-out page.

- 1 Tool holder (SDS-plus)
- 2 Dust protection cap
- 3 Locking sleeve
- 4 Locking button
- 5 On/off switch
- 6 Right/Left rotation switch
- 7 Operational mode selection switch
- 8 Button on the auxiliary handle
- 9 Auxiliary handle
- 10 Depth stop
- 11 Drill chuck*
- 12 Drill chuck adapter shaft*
- 13 SDS-plus adapter*

* **Not all the accessories illustrated or described are included in standard delivery.**



For Your Safety



Working safely with this machine is possible only when the operating and safety information are read completely and the instructions contained therein are strictly followed.

In addition, the general safety notes in the enclosed booklet must be observed.

Before using for the first time, ask for a practical demonstration.



Wear ear protection to prevent damage to your hearing.

Wear safety glasses.

For long hair, wear hair protection. Work only with close-fitting clothes.

- If the cable is damaged or cut through while working, do not touch the cable but immediately pull the mains plug. Never use the machine with a damaged cable.
- Connect machines that are used in the open via a residual current device (RCD) with an actuating current of 30 mA maximum. Do not operate the machine in rain or moisture.
- Always direct the cable to the rear away from the machine.

- **Use suitable detectors to find hidden utility lines or call the local utility company for assistance.** Contact with electric lines can lead to fire or electrical shock. Damaging a gas line can result in an explosion. Penetrating a water pipe will cause property damage or an electrical shock.
- Operate the machine only with the auxiliary handle **9**.
- Place the machine on the nut/screw only when switched off.
- Be careful when screwing in long screws; danger of sliding off.
- When working with the machine, always hold it firmly with both hands and provide for a secure stance.
- **Secure the workpiece.** A workpiece clamped with clamping devices or in a vice is held more secure than by hand.
- Always switch the machine off and wait until it has come to a standstill before placing it down.
- Never allow children to use the machine.
- Bosch is able to ensure flawless functioning of the machine only if the original accessories intended for it are used.

Tool Changing (Fig. E–I)

Take care that the dust protection cap 2 is not damaged when changing tools.

SDS-Plus Tools

The SDS-plus tool is designed to be freely movable. This causes eccentricity when the machine is off-load. However, the drill automatically centres itself during operation. This does not affect drilling precision.

Inserting (Fig. E)

Clean and lightly oil the tool before inserting. Insert the dust-free tool into the tool holder **1** with twisting until it latches. The tool locks itself. Check the locking by pulling on the tool.

Removing (Fig. F)

Pull the locking sleeve **3** to the rear (**a**) and hold while removing the tool (**b**).

Tools without SDS-plus

Do not use tools without SDS-plus for hammer drilling or chiselling!

To work with tools without SDS-plus (e.g., drills with cylindrical shafts), a drill chuck **11** with a SDS-plus chuck shaft **12** (optional accessory) must be inserted into the tool holder (Fig. G).

Insert the dust-free, assembled chuck into the tool holder **1** with twisting until it latches (Fig. H). The chuck locks itself. Check the locking by pulling on the chuck.

Screwdriver Bits (Fig. I)

For screwdriver bits, use the SDS-plus adapter **13** (optional accessory).

System Accessories

Refer to the Bosch Catalogue for insertion tools.

Putting into Operation

Ensure that the mains voltage is correct!

The voltage of the power source must agree with the value given on the nameplate of the machine. Machines designated for 230 V can also be operated with 220 V.

Switching On/Off

To **switch on** the machine, press the on/off switch **5**.

Lock the depressed on/off switch **5** by pressing the lock-on button **4**.

To **switch off** the machine, release the on/off switch **5** or push and then release it.

Working Instructions (Fig. K–M)

Auxiliary Handle (Fig. K)

- Operate the machine only with the auxiliary handle **9**.

By rotating the auxiliary handle **9** to a comfortable position, a fatigue-free and therefore safe working position can be achieved.

Loosen the auxiliary handle **9** by turning counter clockwise and swing it to the desired position. Then retighten the auxiliary handle **9** by turning in the clockwise direction.

Overload Clutch

If the drill bit becomes jammed or caught, the drive to the drill spindle is interrupted. Because of the forces that occur as a result, **always hold the machine securely with both hands and take a firm stance.**

Setting the Drilling Depth (Fig. L)

With the depth stop **10**, the maximum drilling depth **t** can be set.

Press the button **8** of the auxiliary handle and insert the depth stop into the auxiliary handle **9** so that the grooved side of the depth stop points downward.

Insert the SDS-plus tool to the stop into the tool holder **1**. Otherwise, the freedom of motion of the SDS tool can lead to an incorrect setting of the drilling depth.

Pull out the depth stop so far that the distance between the drill tip and the tip of the depth stop corresponds to the desired drilling depth **t**.

Dust Vacuuming/Vacuuming Attachment

- Dust produced while working can be detrimental to health, inflammable or explosive. Suitable protection measures are required.
Examples: Some dusts are considered to be carcinogenic. Use suitable dust/chip extraction and wear a dust protection mask.
- Light metal dust can burn or explode. Always keep the work place clean since material mixtures are especially dangerous.

The machine can be connected directly to the socket of a Bosch all-purpose vacuum cleaner **with remote starting**. The vacuum cleaner starts automatically when the machine is switched on.

Mount the vacuuming attachment (optional accessory) and connect the vacuum cleaner.

The vacuuming attachment is spring loaded up to the preselected drilling depth. In this manner, the vacuuming attachment head is always held close to the surface.

Setting the Speed (Fig. M)

By increasing or decreasing the pressure on the on/off switch **5**, the speed can be continuously controlled during operation.

Advantages:

- Slow starting of holes, e.g., on smooth surfaces or tiles
- No sliding off of the drill when starting the hole
- No splintering of the hole.

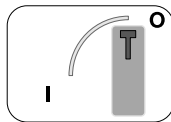
The speed must be selected according to the operating mode, the material to be worked and the diameter of the drill.

See *Operating Modes* for recommended values.

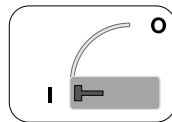
Operating Modes (Fig. A–D)

The operation of the gearbox for each application is set with the mode selection switch **7**:

Drilling



Hammer Drilling



The operating mode selector switch may be actuated only at a standstill.

Do not use tools without SDS-plus for hammer drilling or chiselling!

The following table shows how the mode selection switch **7** and the right/left rotation switch **6** as well as the on/off switch **5** for regulation of the speed are to be set for the various operating modes (see illustrations on the fold-out page):

Operating Mode

Hammer drilling in concrete or stone Fig. **A**

Drilling in steel or wood Fig. **B**

Screw driving
Right rotation Fig. **C**
Left rotation Fig. **D**

Chiselling only with MV 200 (optional accessory) Fig. **A**

Sharpening the Chiselling Tools

(Fig. **N** – **P**)

With sharpened insertion tools, one achieves good working performance and long service life. Therefore, sharpen the chisel regularly.

Sharpen the tool on a grinding wheel (e.g. alumina oxide) with constant water supply.

Take care that the cutting edge does not show signs of coloration since this affects the hardness of the tool.

Maintenance and Cleaning

- Before any work on the machine itself, pull the mains plug.
- For safe and efficient working, always keep the machine and the ventilation slots clean.

Clean the tool holder daily.

Replacing the Dust Protection Cap

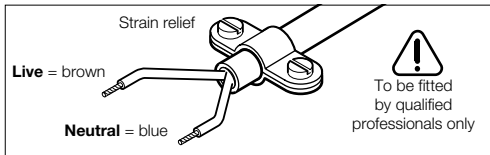
Damaged dust protection caps should be replaced as soon as possible since dust that enters the tool holder can cause malfunctions.

It is recommended that this be performed by customer service.

WARNING

Important instructions for connecting a new 3-wire 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 the plug on the cable of this machine must be replaced, dispose of the old plug to prevent misuse.

If the machine should fail despite the care taken in manufacture and testing, repair should be carried out by an authorised customer services agent for Bosch power tools.

For all correspondence and spare parts orders, always include the 10-digit order number of the machine.

Environmental Protection



Recycle raw materials instead of disposing as waste.

The machine, accessories and packaging should be submitted for environment-friendly recycling.

These instructions are printed on recycled paper manufactured without chlorine.

The plastic components are labelled for categorised recycling.

Service and Customer Advice

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CE Declaration of Conformity

We declare under our sole responsibility that this product is in conformity with the following standards or standardization documents:
EN 50 144 according to the provisions of the directives 89/336/EEC, 98/37/EC.

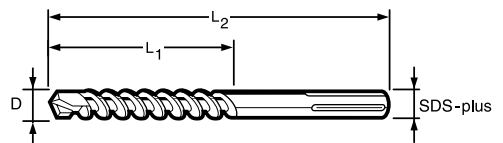
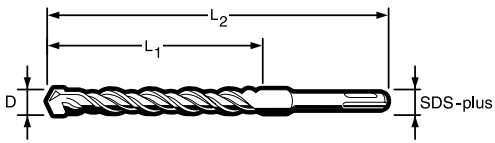
Dr. Egbert Schneider
Senior Vice President
Engineering

Dr. Eckerhard Strötgen
Head of Product
Certification

[Signature] *[Signature]* *i.v. Nütze*

Robert Bosch GmbH, Geschäftsbereich Elektrowerkzeuge

Specification subject to alteration without notice



D-mm	L ₁ -mm	L ₂ -mm	
4	50	110	1 618 596 231
5	50	110	1 618 596 164
5	100	160	1 618 596 189
6	50	110	1 618 596 166
6	100	160	1 618 596 167
6,5	50	110	1 618 596 168
6,5	100	160	1 618 596 169
7	50	110	1 618 596 170
7	100	160	1 618 596 171
8	50	110	1 618 596 172
8	100	160	1 618 596 173
8	150	210	1 618 596 174
8	200	260	1 618 596 264
9	150	210	1 618 596 175
10	50	110	1 618 596 176
10	100	160	1 618 596 177
10	150	210	1 618 596 265
10	200	260	1 618 596 178
10	250	310	1 618 596 315
10	400	460	1 618 596 267
11	100	160	1 618 596 179
11	150	210	1 618 596 316
12	100	160	1 618 596 181
12	150	210	1 618 596 268
12	200	260	1 618 596 182
12	400	460	1 618 596 269
13	100	160	1 618 596 183
13	150	210	1 618 596 318
13	200	260	1 618 596 184
14	150	210	1 618 596 270
14	250	310	1 618 596 271
15	100	160	1 618 596 187
15	200	260	1 618 596 188
16	150	210	2 608 596 185
16	250	310	2 608 596 186

D-mm	L ₁ -mm	L ₂ -mm	
14	550	600	1 618 596 225
15	400	450	1 618 596 257
16	150	200	1 608 596 130
16	250	300	1 618 596 258
16	400	450	1 618 596 259
16	550	600	1 618 596 226
16	750	800	1 618 596 227
17	150	200	1 618 596 203
18	150	200	1 618 596 204
18	250	300	1 618 596 319
18	400	450	1 618 596 260
18	550	600	2 608 596 120
18	750	800	2 608 596 122
19	150	200	1 618 596 205
19	250	300	1 618 596 320
19	400	450	1 618 596 261
20	150	200	1 618 596 207
20	250	300	1 618 596 262
20	400	450	1 618 596 263
20	550	600	1 618 596 321



BOSCH 

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