

Robert Bosch GmbH
Power Tools Division
70745 Leinfelden-Echterdingen
Germany

www.bosch-pt.com

1 619 929 L51 (2012.07) PS / 59 UNI



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S 41

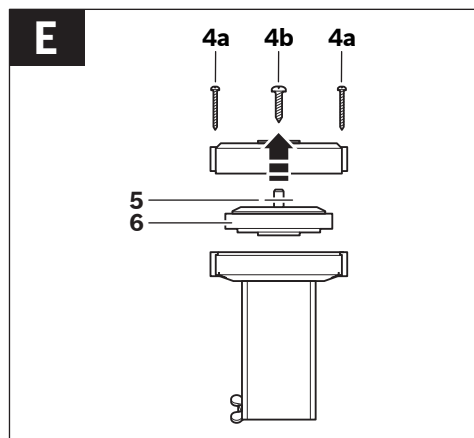
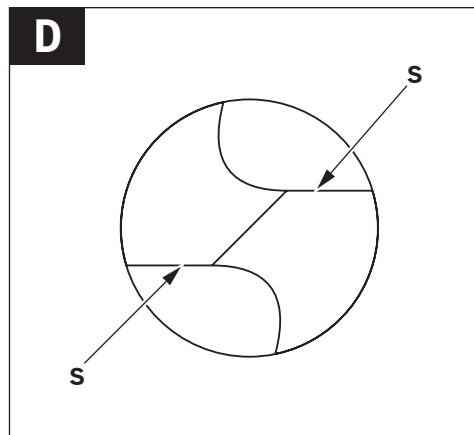
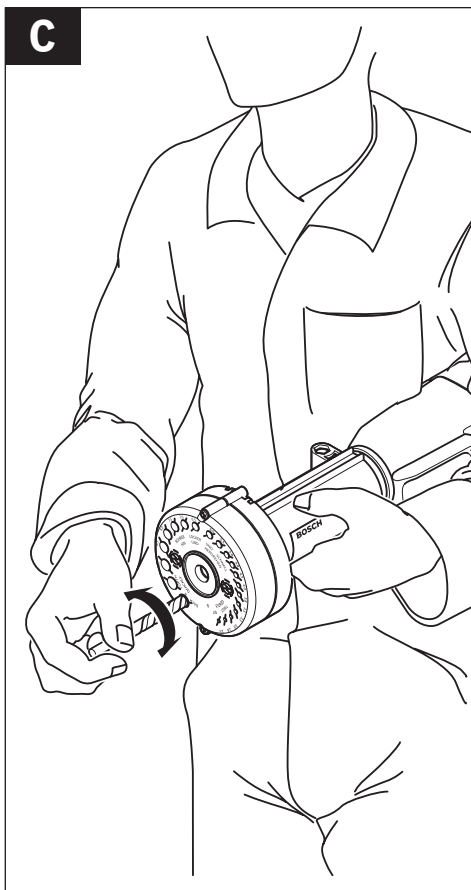
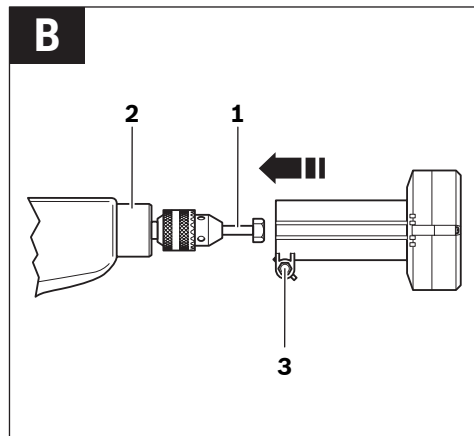
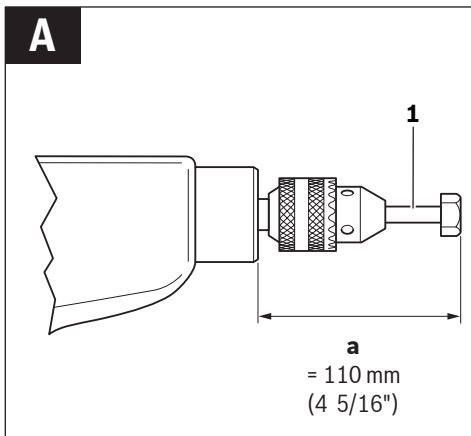


de Originalbetriebsanleitung
en Original instructions
fr Notice originale
es Manual original
pt Manual original
it Istruzioni originali
nl Oorspronkelijke
gebruiksaanwijzing
da Original brugsanvisning
sv Bruksanvisning i original
no Original driftsinstruks
fi Alkuperäiset ohjeet

el Πρωτότυπο οδηγιών χρήσης
tr Orijinal işletme talimatı
pl Instrukcja oryginalna
cs Původní návod k používání
sk Pôvodný návod na použitie
hu Eredeti használati utasítás
ru Оригинальное руководство по
эксплуатации
uk Оригінальна інструкція з
експлуатації
ro Instrucțiuni originale
bg Оригинална инструкция

sr Originalno uputstvo za rad
sl Izvirna navodila
hr Originalne upute za rad
et Algupärane kasutusjuhend
lv Instrukcijas oriģinālvalodā
lt Originali instrukcija
ar تعليمات التشغيل الأصلية
fa راهنمای طرز کار اصلی





6 | English

English

Safety Notes

General Safety Rules



Read all warnings and instructions enclosed with the drill bit sharpener and the power tool. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all safety warnings and all instructions for future reference.

Safety Warnings for Drill Bit Sharpeners



Wear safety goggles.

- ▶ **Never use the drill bit sharpener for wet sharpening.**
The penetration of water into an electrical power tool increases the risk of an electric shock.
- ▶ **Bosch is only able to ensure proper operation of the product when original accessories are used.**

Product Description and Specifications

Intended Use

The device is intended for dry sharpening of steel drill bits according to DIN 338, DIN 340, DIN 345, DIN 1869 and DIN 1897 (type N). Carbide drill bits may not be sharpened. The device is intended for mounting to electric drills or impact drills, but not to rotary hammers.

Product Features

The numbering of the product features refers to the illustrations on the graphics pages.

- 1 Drive element
- 2 Spindle collar
- 3 Clamping screw
- 4 Fastening screws
- 5 Spacer
- 6 Grinding wheel

Accessories shown or described are not part of the standard delivery scope of the product. A complete overview of accessories can be found in our accessories program.

Declaration of Conformity

We declare under our sole responsibility, that the product described under "Technical data" is in conformity with the provisions of the directive 2006/42/EC.

Technical file (2006/42/EC) at:
Robert Bosch GmbH, PT/ETM9,
D-70745 Leinfelden-Echterdingen

Dr. Egbert Schneider
Senior Vice President
Engineering

Helmut Heinzelmann
Head of Product Certification
PT/ETM9

Egbert Schneider

H. Heinzelmann

Robert Bosch GmbH, Power Tools Division
D-70745 Leinfelden-Echterdingen
17.07.2012

Technical Data

Drill bit sharpener		S 41
Article number		2 607 990 050
for drill bit diameter	mm	2.5 – 10
Drill bit point angle	°	118
Diameter spindle collar	mm	43
Max. speed	min ⁻¹	3000

Assembly

Adapting the Drive Element (see figure A)

Before mounting for the first time, adapt the length of the drive element **1** to your drill.

- Shorten the drive element **1** with a metal saw, ensuring that clearance **a** in the figure amounts to 110 mm (4 5/16").

Should the drive element **1** be too short for your drill, use a commercially available M8 hexagon bolt with the appropriate length.

Mounting the Drill Bit Sharpener (see figure B)

- ▶ **Before any work on the machine itself, pull the mains plug.**
- ▶ **The drill bit sharpener may only be used when mounted to a drill. It is not approved for manual sharpening of drill bits.** Danger of injury.
- When an auxiliary handle is mounted on the spindle collar **2** of your drill, remove the auxiliary handle first.
- Clamp the drive element **1** into the chuck of your drill. For this, observe the operating instructions of your drill.
- Press the drill bit sharpener firmly against your drill and tighten clamping screw **3** at the same time. The clamping screw must be fastened against the spindle collar **2** of the drill, not against the drill chuck.

Operation

Working Advice

Sharpening Drill Bits (see figure C)

- Pre-sharpen heavily damaged drill bits first using a bench grinder.
- When the speed of your drill can be regulated, set the speed to 2000 to 3000 min⁻¹.
On impact drills, set the operating mode to "drilling without impact".

- Hold the switched on drill with the attached drill bit sharpener as shown in the figure.
Pay attention that the ventilation slots of the drill are not obstructed.
- Sharpening the first cutting edge of the drill bit:
Insert the drill bit into the smallest fitting hole of the drill bit sharpener. Swiftly twist the drill bit approx. 10 times back and forth between the left and right stop while applying light pressure (for small diameter drill bits approx. 5 times).
- Sharpening the second cutting edge of the drill bit:
Pull the drill bit out a little, turn it by 180° and guide it back in to the grinding wheel **6**. Twist the drill bit as described under sharpening the first cutting edge of the drill bit.
- Repeat the complete procedure as required until both cutting edges are sharp and symmetrical.

Checking and Correcting (see figure D)

The cutting edges **S** of the drill bit must be uniformly long.

- If not, point the shorter cutting edge toward the inner mark of the matching hole of the drill bit sharpener.
- Guide in the drill bit in this position and twist it approx. 3 times back and forth from stop to stop.
- Check the result and repeat the procedure as required.

Maintenance and Service

Maintenance

Readjusting the Grinding Wheel (see figure E)

The grinding wheel **6** should be readjusted after approx. 100 sharpening applications.

The drill bit sharpener has to be disassembled for this.

- Loosen fastening screws **4a** and then loosen fastening screw **4b**.
- Remove the spacer **5**.
- Mount the drill bit sharpener in reverse order without the spacer.

Replacing the Grinding Wheel

Replace the grinding wheel **6** after approx. 200 sharpening applications.

The drill bit sharpener has to be disassembled for this.

- Loosen fastening screws **4a** and then loosen fastening screw **4b**.
- Mount the spacer **5** on the new grinding wheel.
- Mount the drill bit sharpener in reverse order.

Spare Parts

	Article number
Grinding wheels	2 608 600 029

In case of loss of the drive element **1**, use a 90 mm long (or longer) M8 hexagon bolt.

- Shorten the bolt to the matching length (see "Adapting the Drive Element", Page 6).

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 service representatives can answer your questions concerning possible applications and adjustment of products and accessories.

Great Britain

Robert Bosch Ltd. (B.S.C.)
P.O. Box 98
Broadwater Park
North Orbital Road
Denham
Uxbridge
UB 9 5HJ
Tel. Service: +44 (0844) 736 0109
Fax: +44 (0844) 736 0146
E-Mail: boschservicecentre@bosch.com

Ireland

Origo Ltd.
Unit 23 Magna Drive
Magna Business Park
City West
Dublin 24
Tel. Service: +353 (01) 4 66 67 00
Fax: +353 (01) 4 66 68 88

Australia, New Zealand and Pacific Islands

Robert Bosch Australia Pty. Ltd.
Power Tools
Locked Bag 66
Clayton South VIC 3169
Customer Contact Center
Inside Australia:
Phone: +61 (01300) 307 044
Fax: +61 (01300) 307 045
Inside New Zealand:
Phone: +64 (0800) 543 353
Fax: +64 (0800) 428 570
Outside AU and NZ:
Phone: +61 (03) 9541 5555
www.bosch.com.au

Republic of South Africa

Customer service
Hotline: +27 (011) 6 51 96 00

Gauteng – BSC Service Centre

35 Roper Street, New Centre
Johannesburg
Tel.: +27 (011) 4 93 93 75
Fax: +27 (011) 4 93 01 26
E-Mail: bsctools@icon.co.za