



Robert Bosch GmbH

Power Tools Division 70745 Leinfelden-Echterdingen Germany

www.bosch-pt.com

1 609 929 N92 (2008.11) O / 192 UNI

GDA 280 E Professional



BOSCH

- 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

- tr Orijinal işletme talimatı
- pl Instrukcją oryginalną
- cs Původní návod k používání
- **sk** Pôvodný návod na použitie
- hu Eredeti használati utasítás ru Оригинальное руководст-
- во по эксплуатации **uk** Оригінальна інструкція з експлуатації
- ro Instrucțiuni originale
- **bg** Оригинална инструкция

- el Πρωτότυπο οδηγιών χρήσης sr Originalno uputstvo za rad
 - sl Izvirna navodila
 - **hr** Originalne upute za rad
 - et Algupärane kasutusjuhend
 - lv Instrukcijas oriģinālvalodā
 - It Originali instrukcija









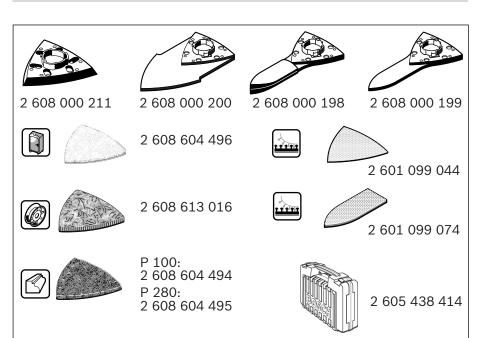


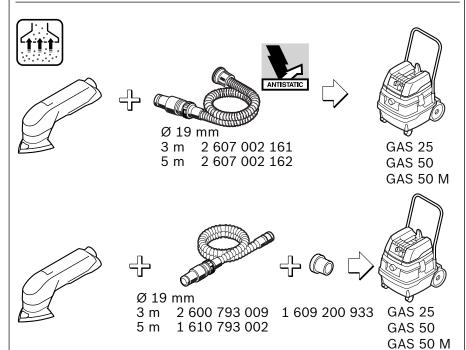














1 609 929 N92 | (12.11.08)

Bosch Power Tools



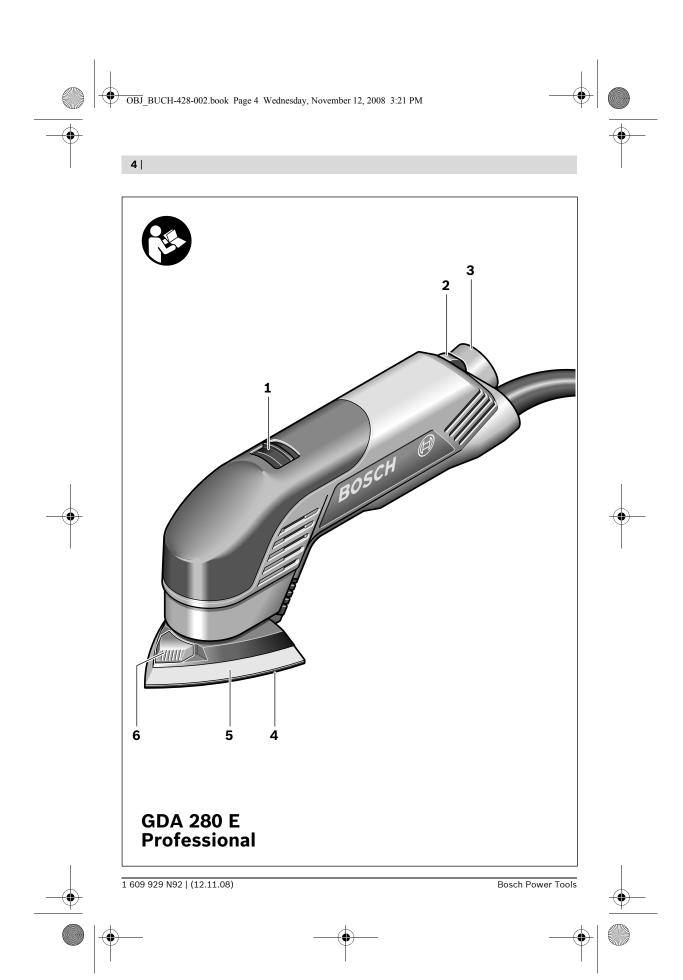


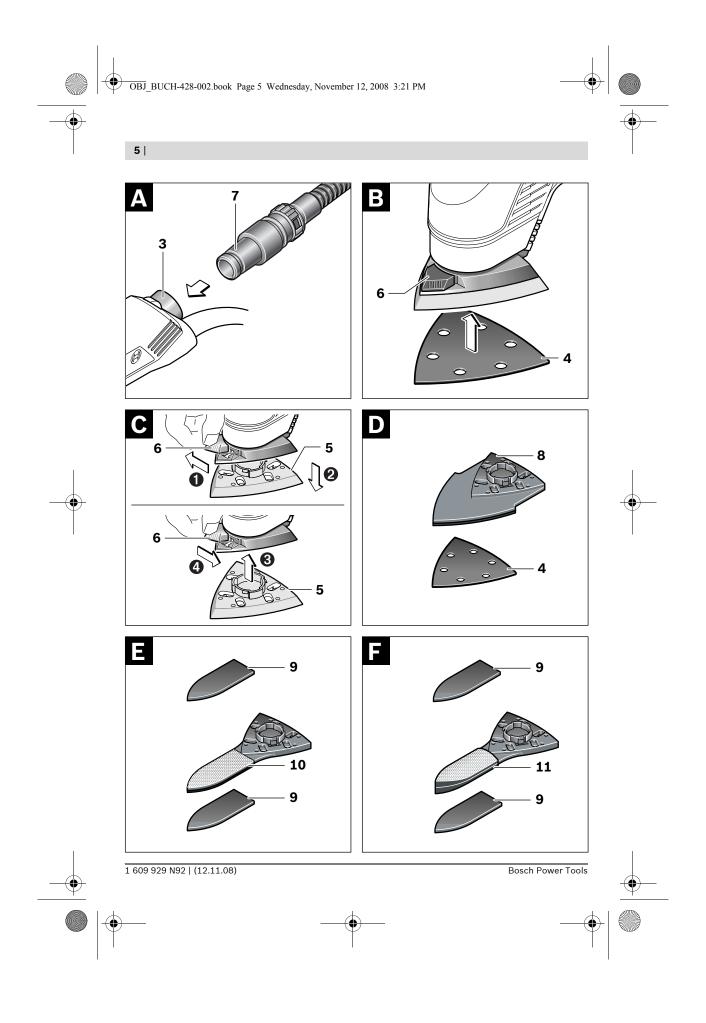


















14 | English

Safety Notes

General Power Tool Safety Warnings

Read all safety warnings and all **▲** WARNING 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.

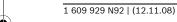
2) Electrical safety

- 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
- 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 inju-
- 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) 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.

Safety Warnings for Sander

- ► Use the machine only for dry sanding. Penetration of water into the machine increases the risk of an electric shock.
- ➤ Caution, fire hazard! Avoid overheating the object being sanded as well as the sander. Always empty the dust collector before taking breaks. In unfavourable conditions, e. g., when sparks emit from sanding metals, sanding debris in the dust bag, micro filter or paper sack (or in the filter sack or filter of the vacuum cleaner) can self-ignite. Particularly when mixed with remainders of varnish, polyurethane or other chemical materials and when the sanding debris is hot after long periods of working.
- Secure the workpiece. A workpiece clamped with clamping devices or in a vice is held more secure than by hand.
- Keep your workplace clean. Blends of materials are particularly dangerous. Dust from light alloys can burn or explode.
- 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.

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

Intended Use

The machine is intended for dry sanding and polishing of wood, plastic, metal, filler, as well as for painted surfaces. It is ist especially suitable for profiles, corners or hard to reach loca-

Product Features

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

- 1 On/Off switch
- 2 Thumbwheel for orbit frequency preselec-
- 3 Extraction outlet
- 4 Sanding sheet*
- 5 Sanding plate
- 6 SDS button for release of the sanding plate
- 7 Vacuum hose*
- 8 Pad extender*
- 9 Sanding plate for extender*
- 10 Narrow pad extender*
- 11 Narrow rounded pad extender*
- *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.

Technical Data

Delta Sander		GDA 280 E Professional
Article number		0 601 294 7
Rated power input	W	280
No-load speed	min ⁻¹	6500-9500
No-load orbital stroke rate	min ⁻¹	13000-19000
Sanding plate size (corner to corner)	mm	94
Orbit diameter	mm	2.0
Weight according to EPTA-Procedure 01/2003	kg	1.1
Protection class		□/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.

Noise/Vibration Information

Measured values determined according to EN 60745.

Typically the A-weighted sound pressure level of the product is 80 dB(A). Uncertainty K=3 dB. The noise level when working can exceed 80 dB(A).

Wear hearing protection!

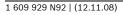
Vibration total values (triax vector sum) determined according to EN 60745:

Vibration emission value $a_h = 4.5 \text{ m/s}^2$, Uncertainty $K = 1.5 \text{ m/s}^2$.

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. It may be used for a preliminary assessment of exposure.

The declared vibration emission level represents the main applications of the tool. However if the tool is used for different applications, with different accessories or poorly maintained, the

























vibration emission may differ. This may significantly increase the exposure level over the total working period.

An estimation of the level of exposure to vibration should also take into account the times when the tool is switched off or when it is running but not actually doing the job. This may significantly reduce the exposure level over the total working period.

Identify additional safety measures to protect the operator from the effects of vibration such as: maintain the tool and the accessories, keep the hands warm, organisation of work patterns.

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 28 Dec 2009), 2006/42/EC (from 29 Dec 2009).

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

Robert Bosch GmbH, Power Tools Division D-70745 Leinfelden-Echterdingen 19.09.2008

Assembly

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

Dust/Chip Extraction

➤ Dusts from materials such as lead-containing coatings, some wood types, minerals and metal can be harmful to one's health. Touching or breathing-in the dusts can cause allergic reactions and/or lead to respiratory infections of the user or bystanders.

Certain dusts, such as oak or beech dust, are considered as carcinogenic, especially in connection with wood-treatment additives (chromate, wood preservative). Materials containing asbestos may only be worked by specialists.

- Use dust extraction whenever possible.
- Provide for good ventilation of the working place.
- It is recommended to wear a P2 filterclass respirator.

Observe the relevant regulations in your country for the materials to be worked.

External Dust Extraction (see figure A)

Attach a vacuum hose **7** onto the outlet piece **3**. Connect the vacuum hose **7** with a vacuum cleaner. An overview for connecting to various vacuum cleaners can be found at the beginning of these operating instructions.

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.

Replacing the Sanding Sheet (see figure B)

When attaching a new sanding sheet, remove any dust or debris from the sanding plate **5** (e. g. with a brush).

To ensure optimum dust extraction, pay attention that the punched holes in the sanding sheet match with the holes in the sanding plate.

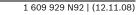
The sanding plate **5** is fitted with Velcro backing for quick and easy fastening of sanding sheets with Velcro adhesion.

Before attaching the sanding sheet **4**, free the Velcro backing of the sanding plate **5** from any debris by tapping against it in order to enable optimum adhesion.

Position the sanding sheet **4** flush alongside one edge of the sanding plate **5**, then lay the sanding sheet onto the sanding plate and press firmly.



























18 | English

To remove the sanding sheet **4**, grasp it at one of the tips and pull it off from the sanding plate **5**.

Sanding accessories, such as fleece pads/polishing cloth pads, are attached to the sanding plate in the same manner.

Selecting the Sanding Sheet

Depending on the material to be worked and the required rate of material removal, different sanding sheets are available:

	Grain size		
red:Wood		40-240	
For the working of all wooden materials			
For coarse-sanding, e. g. of rough, unplaned beams and boards	coarse	40, 60	
For face sanding and planing small irregularities	medium	80, 100, 120	
For finish and fine sanding of hard woods	fine	180, 240	
white: Paint		40-320	
For the working of			

For the working of paint/enamel coats or primers and fillers

For sanding off paint	coarse	40, 60
For sanding primer	medium	80, 100, 120
For final sanding of primers before coating	fine	180, 240, 320

For reworking or polishing, especially of metal and stone, use fleece/polishing cloth pad. Depending on the desired surface quality of the workpiece, different fleece types or polishing cloth pads are to be used.

Replacing the Sanding Plate (see figure C)

- Slide the SDS button for release of the sanding plate 6 all the way to the right.
- 2 Remove the sanding plate 5.
- Guide the sanding plate 5 from below against the sanding plate holder and firmly press them together.
- Slide the SDS button for release of the sanding plate 6 all the way to the left.

If, e. g., the front tip of the sanding sheet is worn, you can also remove the complete sanding plate and reattach it turned by 120°.

Specialty Sanding Plates

You can replace the supplied sanding plate **5** with a specialty sanding plate, which is available as an accessory.

The specialty sanding plate is attached in the same manner as the one supplied.

Attach and remove the respective sanding sheets in the same manner as when changing original sanding sheets.

Pad Extender (see figure D)

With the pad extender **8** you can sand surfaces that are difficult to access, such as sills on windows, cabinets or doors.

Pad Extender, Narrow (see figure E)

With the narrow pad extender **10** you can sand narrow openings, slots and passages.

Pad Extender, Narrow Rounded (see figure F)

The narrow rounded pad extender **11** allows you to sand curved and hollow areas or surfaces that are curved inward, such as on furniture, rails or heating radiators.













1 609 929 N92 | (12.11.08)





English | 19





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.

Switching On and Off

To start the machine, push the On/Off switch 1 towards the front to "I".

To switch off the machine, push the On/Off switch 1 towards the rear to "0".

Preselecting the Orbital Stroke Rate

With the thumbwheel for preselection of the orbital stroke rate 2, you can preselect the required orbital stroke rate, even during operation.

The required stroke rate depends on the material and the working conditions and can be determined through practical testing.

Working Advice

▶ Wait until the machine has come to a standstill before placing it down.

The removal capacity during sanding is mainly determined by the selection of the sanding sheet as well as the preselected orbital stroke

Only flawless sanding sheets achieve good sanding capacity and extend the service life of the machine.

Pay attention to apply uniform sanding pressure; this increases the working life of the sanding sheets.

Intensifiying the sanding pressure does not lead to an increase of the sanding capacity, but to increased wear of the machine and the sanding sheet.

For precise on-the-spot sanding of edges, corners and hard to reach areas, it is also possible to work only with the tip or an edge of the sanding plate.

A sanding sheet that has been used for metal should not be used for other materials.

Use only original Bosch sanding accessories.

Maintenance and Service

Maintenance and Cleaning

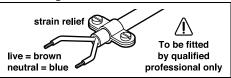
- ▶ Before any work on the machine itself, pull the mains plug.
- For safe and proper working, always keep the machine and ventilation slots clean.

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.

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:

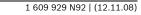


Do not connect the blue or brown wire to the earth terminal of the plug.

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



























20 | English

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.

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: SPT-Technical.de@de.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

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.













