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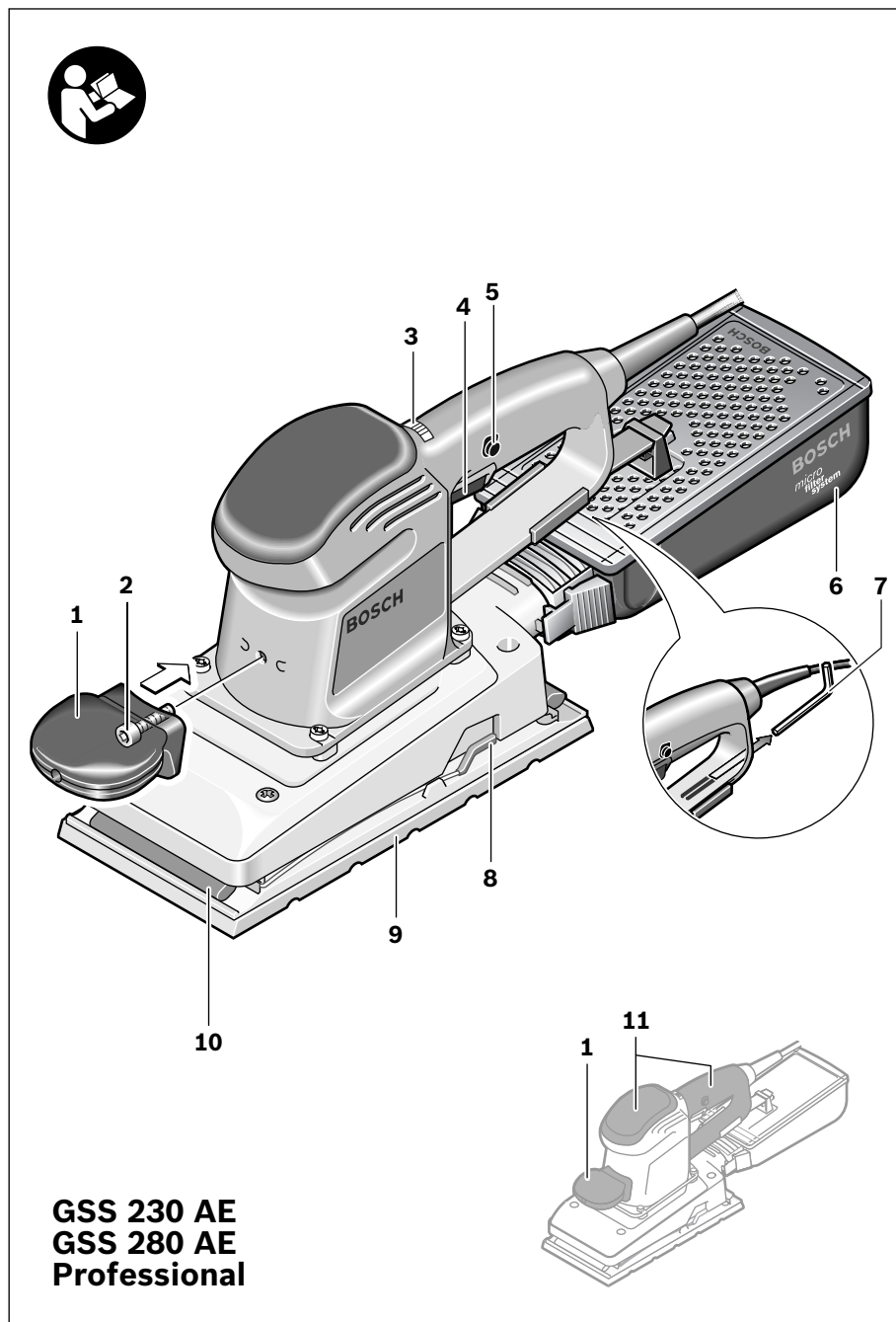
## GSS Professional

230 A | 230 AE | 280 A | 280 AE

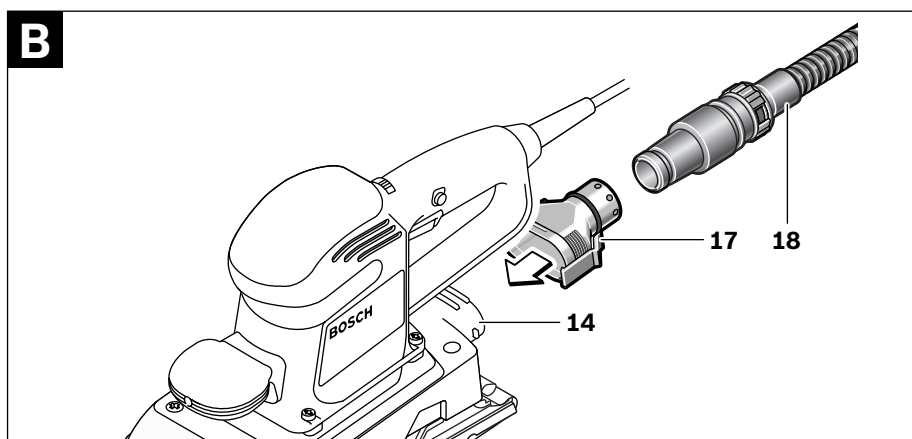
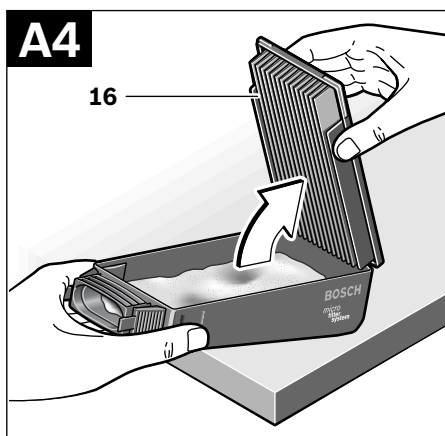
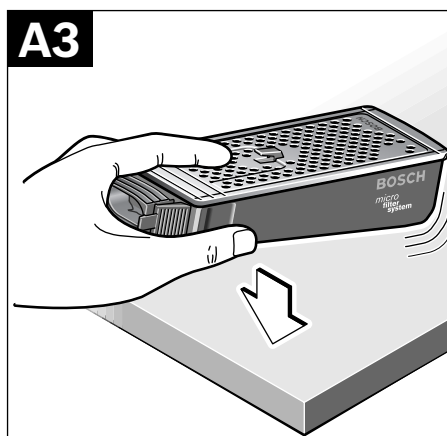
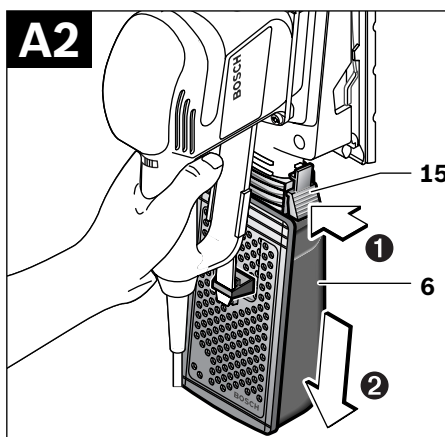
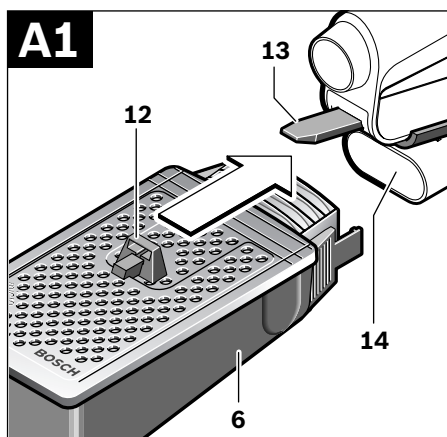


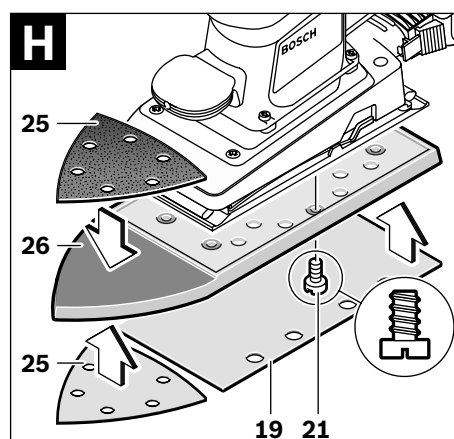
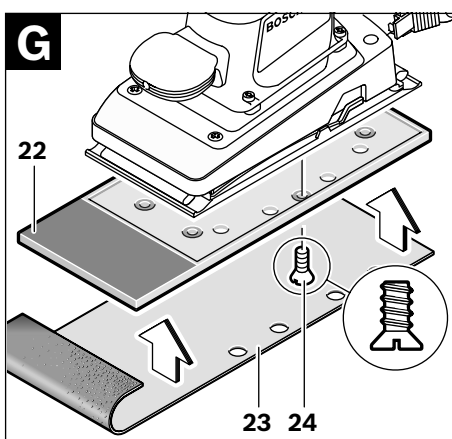
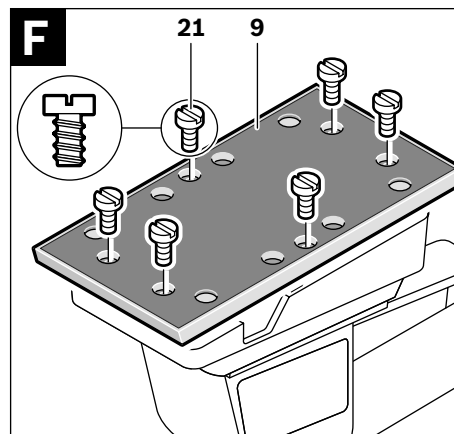
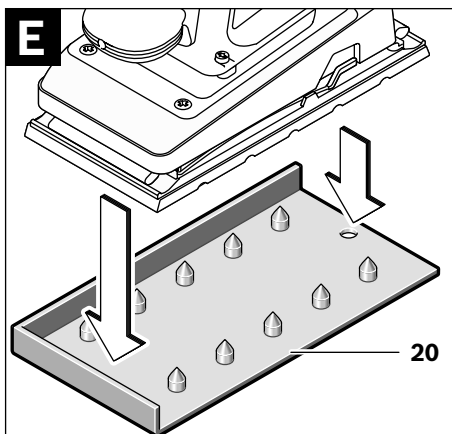
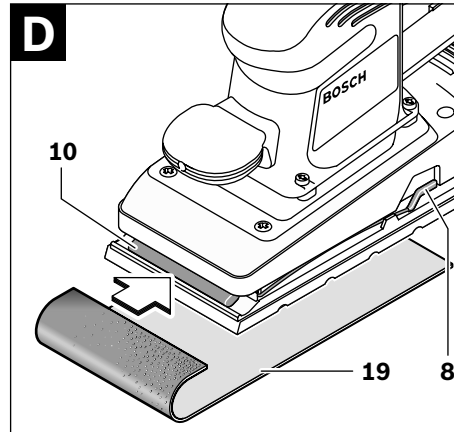
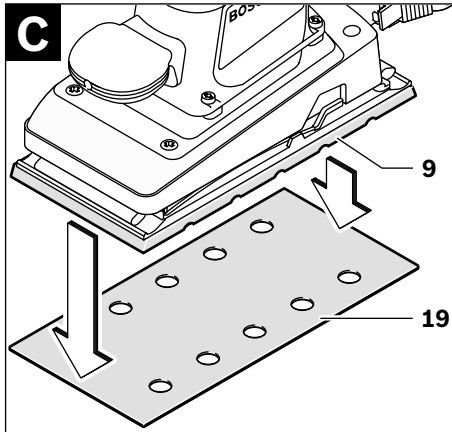
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<b>en</b> Original instructions	<b>tr</b> Orijinal işletme talimatı	<b>sl</b> Izvirna navodila
<b>fr</b> Notice originale	<b>pl</b> Instrukcja oryginalna	<b>hr</b> Originalne upute za rad
<b>es</b> Manual original	<b>cs</b> Původní návod k používání	<b>et</b> Algupärane kasutusjuhend
<b>pt</b> Manual original	<b>sk</b> Pôvodný návod na použitie	<b>lv</b> Instrukcijas oriģinālvalodā
<b>it</b> Istruzioni originali	<b>hu</b> Eredeti használati utasítás	<b>lt</b> Originali instrukcija
<b>nl</b> Oorspronkelijke gebruiksaanwijzing	<b>ru</b> Оригинальное руководство по эксплуатации	<b>ar</b> تعليمات التشغيل الأصلية
<b>da</b> Original brugsanvisning	<b>uk</b> Оригінальна інструкція з експлуатації	<b>fa</b> راهنمای طرز کار اصلی
<b>sv</b> Bruksanvisning i original	<b>ro</b> Instrucțiuni originale	
<b>no</b> Original driftsinstruks	<b>bg</b> Оригинална инструкция	
<b>fi</b> Alkuperäiset ohjeet		





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## Safety Notes

### 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) 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.
- **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.

**Products sold in GB only:** Your product is fitted with an BS 1363/A approved electric plug with internal fuse (ASTA approved to BS 1362).

If the plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place by an authorised customer service agent. The replacement plug should have the same fuse rating as the original plug.

The severed plug must be disposed of to avoid a possible shock hazard and should never be inserted into a mains socket elsewhere.

**Products sold in AUS and NZ only:** Use a residual current device (RCD) with a rated residual current of 30 mA or less.

## 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 dry sanding of wood, plastic, filler and coated surfaces.

### Product Features

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

- 1 Auxiliary handle (insulated gripping surface)
- 2 Screw for auxiliary handle
- 3 Thumbwheel for orbit frequency preselection (GSS 230 AE/GSS 280 AE)
- 4 On/Off switch
- 5 Lock-on button for On/Off switch
- 6 Dust box, complete (Microfilter System)\*
- 7 Allen key
- 8 Sanding-sheet clamp
- 9 Sanding plate
- 10 Clamping bracket
- 11 Handle (insulated gripping surface)
- 12 Holder for dust box\*
- 13 Plastic slider
- 14 Extraction outlet
- 15 Latching lever for dust box\*
- 16 Filter element (Microfilter System)\*
- 17 Extraction adapter\*
- 18 Vacuum hose\*
- 19 Sanding sheet\*
- 20 Perforating tool\*
- 21 Screws for sanding plate
- 22 Sanding plate, thin, extended\*

23 Sanding plate, extended\*

24 Screws for extended sanding plate\*

25 Triangular sanding sheet\*

26 Triangular sanding plate, extended\*

**\*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

Orbital sander							
GSS ... Professional		230 A	230 AE	230 AE	280 A	280 AE	280 AE
Article number	0 601 ...	292 0..	292 7..	292 6..	293 0..	293 7..	293 6..
Dust box included in delivery scope		–	–	•	–	–	•
Preselection of orbital stroke rate		–	•	•	–	•	•
Rated power input	W	300	300	300	330	330	330
No-load speed	min <sup>-1</sup>	11000	5500 – 11000	5500 – 11000	11000	5500 – 11000	5500 – 11000
No-load orbital stroke rate	min <sup>-1</sup>	22000	11000 – 22000	11000 – 22000	22000	11000 – 22000	11000 – 22000
Orbit diameter	mm	2.4	2.4	2.4	2.4	2.4	2.4
Sanding sheet dimensions							
– Adhesion via Velcro backing	mm	93 x 185	93 x 185	93 x 185	115 x 230	115 x 230	115 x 230
– Attachment via clamping	mm	93 x 230	93 x 230	93 x 230	115 x 280	115 x 280	115 x 280
Sanding plate dimensions	mm	92 x 182	92 x 182	92 x 182	114 x 226	114 x 226	114 x 226
Weight according to EPTA-Procedure 01/2003	kg	2.3	2.3	2.3	2.6	2.6	2.6
Protection class		□/II	□/II	□/II	□/II	□/II	□/II

The values given are valid for a nominal voltage [U] of 230 V. For different voltages 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 sound values determined according to EN 60745.

Typically the A-weighted sound pressure level of the product is 76 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



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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, 2006/42/EC.

Technical file at:

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Head of Product  
Certification



Robert Bosch GmbH, Power Tools Division  
D-70745 Leinfelden-Echterdingen  
09.11.2010

## 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.

- As far as possible, use a dust extraction system suitable for the material.
- Provide for good ventilation of the working place.
- It is recommended to wear a P2 filter-class respirator.

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

- **Prevent dust accumulation at the work-place.** Dusts can easily ignite.

### Integrated Dust Extraction with Dust Box (see Fig. A1 – A4)

Before assembling the dust box **6**, pull out the plastic slider **13**. Place the dust box **6** onto the extraction outlet **14** and allow it to engage. Make sure that the plastic slider **13** engages in the holder **12**.

To empty the dust box **6**, press the latching levers **15** on the side of the dust box (**1**). Pull off the dust box toward the bottom (**2**).

Before opening the dust box **6**, it is recommended to loosen the dust from the filter element by gently striking it against a firm support (as shown in the figure).

Grasp the dust box **6** by the recessed grip, fold the filter element **16** upward and empty the dust box. Clean the thin plates of the filter element **16** with a soft brush.

### External Dust Extraction (see figure B)

Slide the extraction adapter **17** onto the outlet piece **14**. Ensure that the latching levers of the extraction adapter engage. The extraction adapter **17** accepts a vacuum hose with a diameter of 19 mm.

For removal of the extraction adapter **17**, press the latching levers together at the rear and pull the extraction adapter off.

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

When attaching a new sanding sheet, remove any dust or debris from the sanding plate **9** (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.

### Sanding Sheets with Velcro Backing (see figure C)

The sanding plate **9** is fitted with Velcro backing for quick and easy fastening of sanding sheets with Velcro adhesion.

Before attaching the sanding sheet **19**, free the Velcro backing of the sanding plate **9** from any debris by tapping against it in order to enable optimum adhesion.

Position the sanding sheet **19** flush alongside one edge of the sanding plate **9**, then lay the sanding sheet onto the sanding plate and press firmly.

To remove the sanding sheet **19**, grasp it at one of the tips and pull it off from the sanding plate **9**.

### Sanding Sheets without Velcro Backing (see figure D)

Lightly lift and unlatch the sanding-sheet clamp **8**.

Guide the sanding sheet **19** under the opened rear clamping bracket **10** to the stop and clamp the sanding sheet by reinserting the sanding-sheet clamp **8**.

Fold the sanding sheet **19** firmly around the sanding plate. Guide the other end of the sanding sheet **19** under the open front clamping bracket **10** and clamp the sanding sheet by reinserting the sanding-sheet clamp **8**.

Sanding sheets without holes, e. g. from rolls or by the meter, can be punctured with the perforating tool **20** for use with dust extraction. For this, press the machine with the mounted sanding sheet onto the perforating tool (see figure E).

To remove the sanding sheet **19**, unlatch the sanding-sheet clamp **8** and pull out the sanding sheet.

### 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		
<b>red:Wood</b> 40–240		
<b>For the working of all wooden materials</b>		
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
<b>white:Paint</b> 40–320		
<b>For the working of paint/enamel coats or primers and fillers</b>		
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

### Replacing the Sanding Plate (see figure F)

The sanding plate **9** can be replaced, if required.

Unscrew the 6 screws **21** completely and remove the sanding plate **9**. Attach the new sanding plate **9** and tighten the screws again.

## Specialty Sanding Plates

You can replace the supplied sanding plate **9** 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.

### Extended Sanding Plate, Rectangular, Thin (GSS 230 A/GSS 230 AE) (see figure G)

Use of the rectangular, thin, extended sanding plate **22** enables sanding at hard-to-reach locations and narrow interspaces, e. g. on window and door sills, grooves or behind radiators or water pipes.

To mount the rectangular, thin, extended sanding plate **22**, use the corresponding screws **24**.

### Extended Sanding Plate, Triangular (GSS 230 A/GSS 230 AE) (see figure H)

Use of the extended triangular sanding plate **26** enables sanding in edges and corners.

### Finish-sanding Plate (without velcro backing) (GSS 230 AE/GSS 280 AE) (see figure D)

When operating mainly with standard sanding sheets without velcro backing, it is recommended to use the finish-sanding plate without velcro backing. Due to its plane sanding plate surface, optimum results are achieved, especially for finish sanding.

## Auxiliary Handle

The auxiliary handle **1** enables convenient handling and optimal distribution of power, especially at high removal rates.

Fasten the auxiliary handle **1** with screw **2** to the casing.

## 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.**

### Switching On and Off

To **start** the machine, press the On/Off switch **4** and keep it pressed.

To lock the **pressed** On/Off switch **4**, press the lock-on button **5**.

To **switch off** the machine, release the On/Off switch **4** or when it is locked with the lock-on button **5**, briefly press the On/Off switch **4** and then release it.

### Preselecting the Orbital Stroke Rate (GSS 230 AE/GSS 280 AE)

With the thumbwheel for preselection of the orbital stroke rate **3**, 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 rate (GSS 230 AE/GSS 280 AE).

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.

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

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.

### 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.

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### **Disposal**

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

Do not dispose of power tools into household waste!

#### **Only for EC countries:**



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.**