

Robert Bosch GmbH
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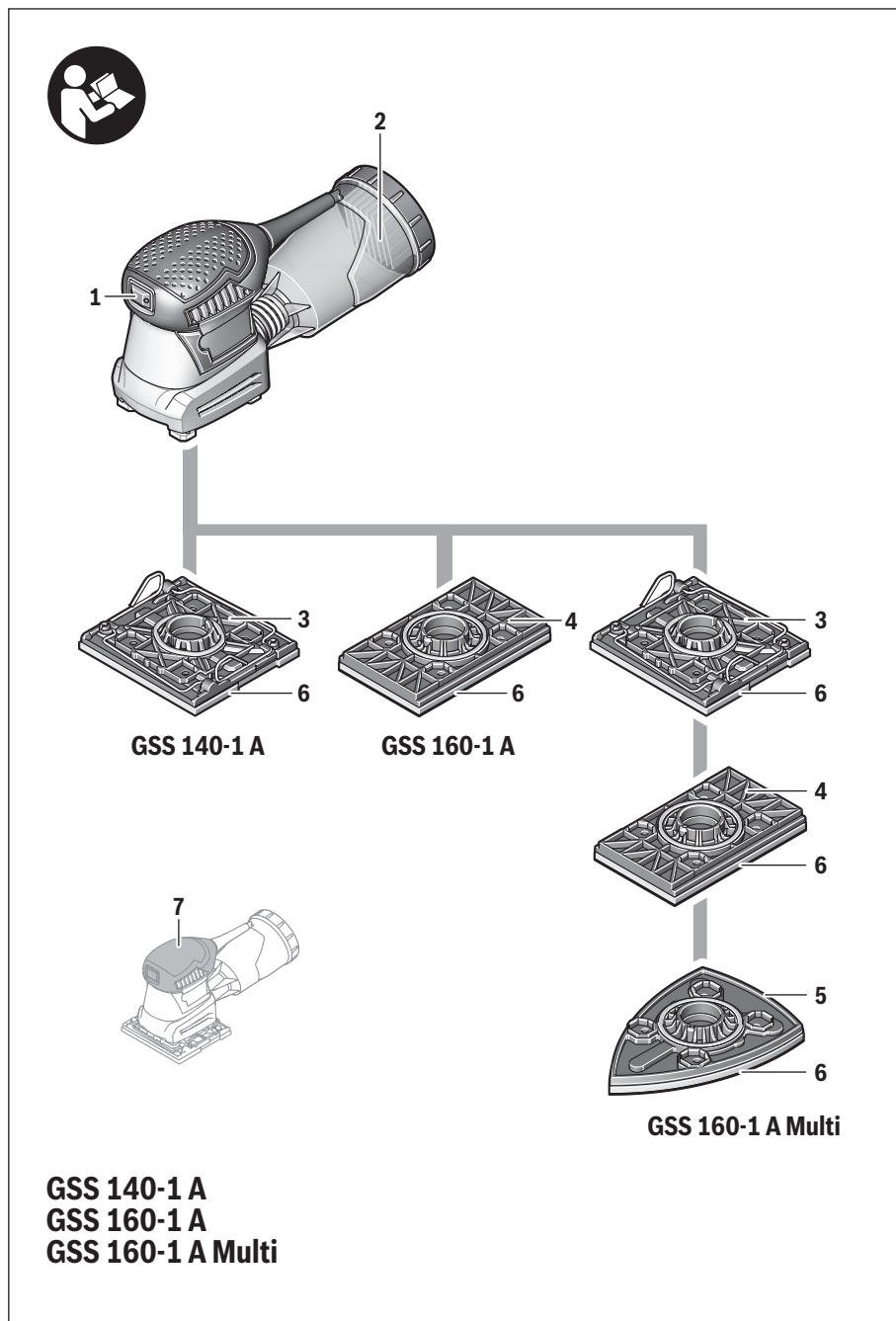
GSS Professional

140-1 A | 160-1 A | 160-1 A Multi

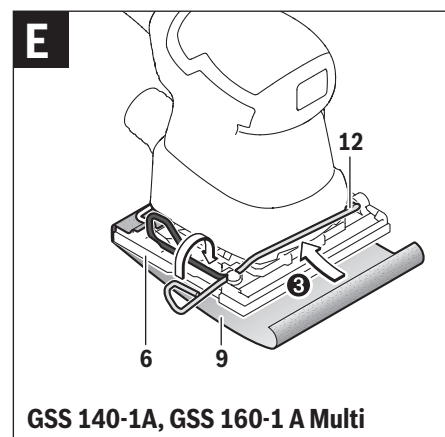
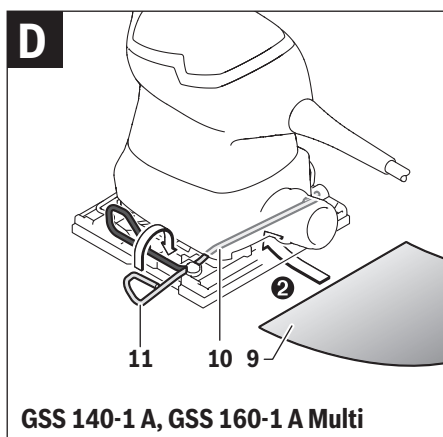
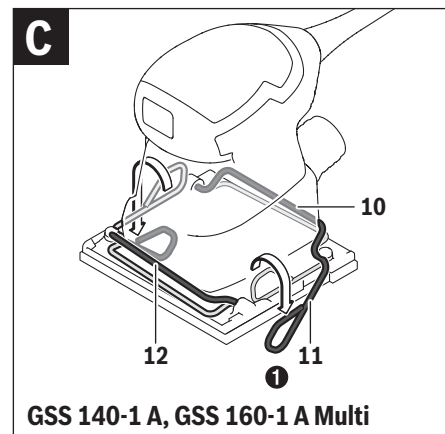
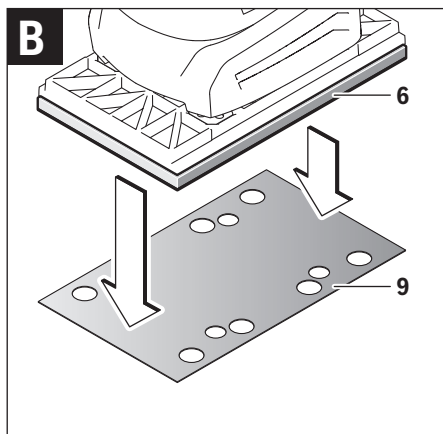
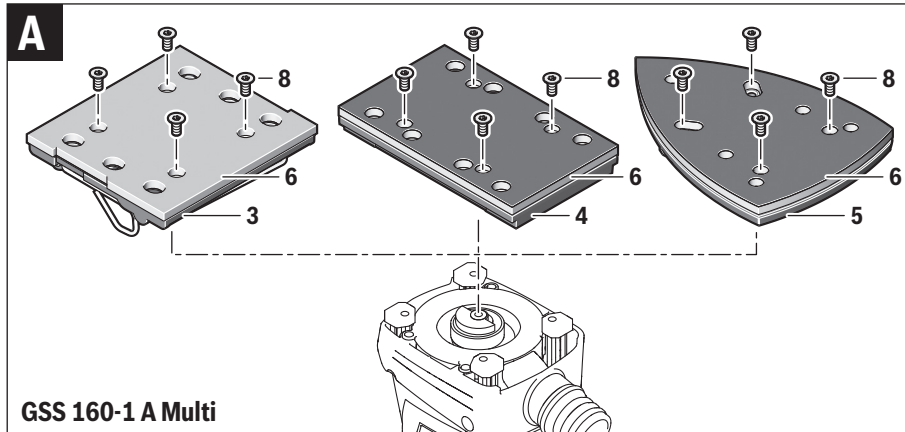


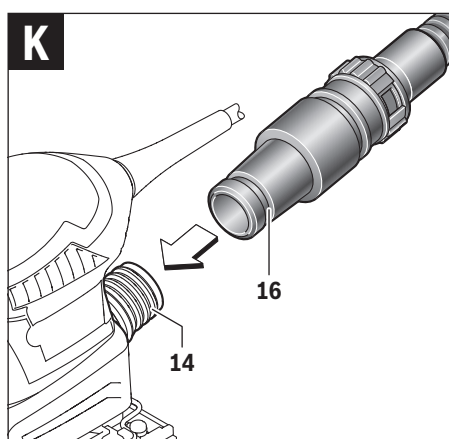
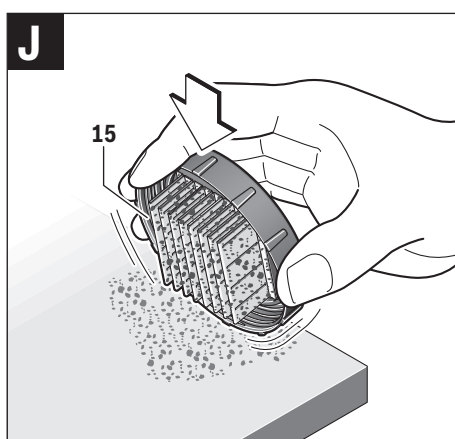
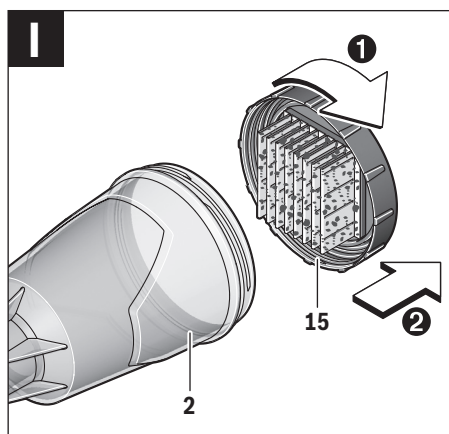
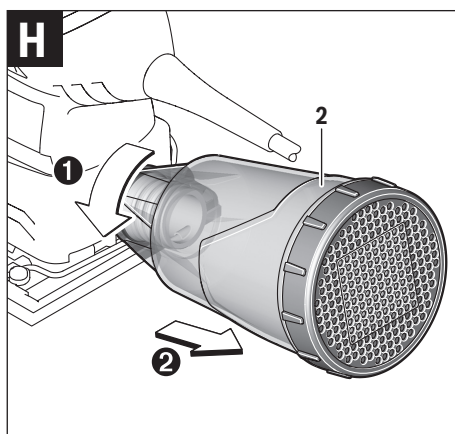
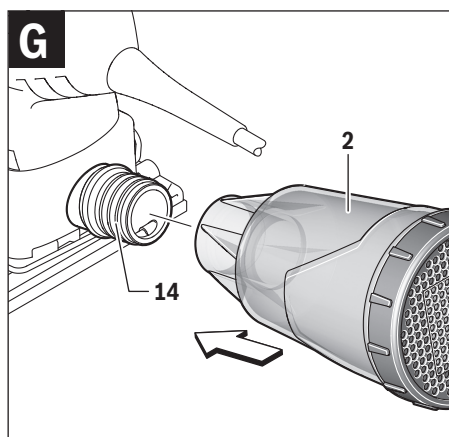
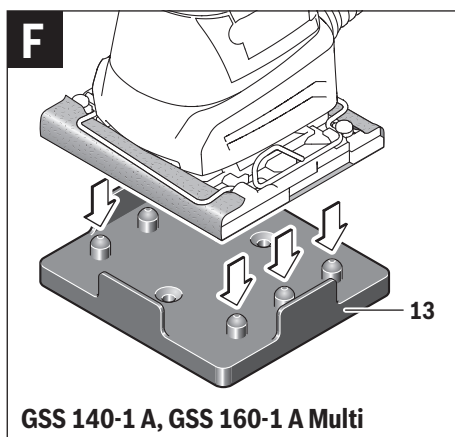
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el Πρωτότυπο οδηγιών χρήσης		
tr Orijinal işletme talimatı		





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English

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.

Work area safety

- ▶ **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- ▶ **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.
- ▶ **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

Electrical safety

- ▶ **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.
- ▶ **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.
- ▶ **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- ▶ **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.
- ▶ **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.
- ▶ **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.

Personal safety

- ▶ **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.
- ▶ **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.

- ▶ **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.
- ▶ **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.
- ▶ **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- ▶ **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.
- ▶ **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.

Power tool use and care

- ▶ **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.
- ▶ **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.
- ▶ **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.
- ▶ **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.
- ▶ **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.
- ▶ **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- ▶ **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

- ▶ **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.

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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.
- **Products sold in GB only:** Your product is fitted with a 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.

Product Description and Specifications

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 On/Off switch
- 2 Dust box, complete (Microfilter System)
- 3 Square base plate (GSS 140-1 A / GSS 160-1 A Multi)
- 4 Rectangular base plate (GSS 160-1 A / GSS 160-1 A Multi)
- 5 Triangular base plate (GSS 160-1 A Multi)
- 6 Sanding plate
- 7 Handle (insulated gripping surface)
- 8 Screws for base plate (4x)
- 9 Sanding sheet*
- 10 Rear clamping bracket
- 11 Sanding-sheet clamps (2x)
- 12 Front clamping bracket
- 13 Perforating tool*
- 14 Extraction outlet
- 15 Filter element (Microfilter System)
- 16 Vacuum hose*

*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 140-1 A	GSS 160-1 A	GSS 160-1 A Multi
Article number		3 601 BA2 1..	3 601 BA2 2..	3 601 BA2 2..
Rated power input	W	180	180	180
No-load speed	min ⁻¹	12 000	12 000	12 000
No-load orbital stroke rate	min ⁻¹	24 000	24 000	24 000
Orbit diameter	mm	1.6	1.6	1.6
Sanding sheet dimensions				
– square				
– Adhesion via Velcro backing	mm	115 x 107	–	115 x 107
– Attachment via clamping	mm	115 x 140	–	115 x 140
– rectangular				
– Adhesion via Velcro backing	mm	–	133 x 80	133 x 80
– triangular				
– Adhesion via Velcro backing	mm	–	–	150 x 100

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.

Orbital sander		GSS 140-1 A	GSS 160-1 A	GSS 160-1 A Multi
Sanding plate dimensions				
– square	mm	110 x 100	–	110 x 100
– rectangular	mm	–	128 x 78	128 x 78
– triangular (sanding sheet length from corner to corner)	mm	–	–	150 x 100
Weight according to EPTA-Procedure 01:2014	kg	1.2	1.2	1.2
Protection class		□/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.

Noise/Vibration Information

Sound emission values determined according to EN 60745-2-4.

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 a_h (triax vector sum) and uncertainty K determined according to EN 60745-2-4:

$a_h = 5.0 \text{ m/s}^2$, K = 1.5 m/s^2 .

The vibration 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 insertion tools or is 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 all relevant provisions of the directives 2011/65/EU, until 19 April 2016: 2004/108/EC, from 20 April 2016 on: 2014/30/EU, 2006/42/EC including their amendments and complies with the following standards: EN 60745-1, EN 60745-2-4.

Technical file (2006/42/EC) at:
Robert Bosch GmbH, PT/ETM9,
70764 Leinfelden-Echterdingen, GERMANY

Henk Becker
Executive Vice President
Engineering

Helmut Heinzelmann
Head of Product Certification
PT/ETM9

Henk Becker *i. V. Heinzelmann*

Robert Bosch GmbH, Power Tools Division
70764 Leinfelden-Echterdingen, GERMANY
Leinfelden, 22.07.2015

Assembly

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

Fitting the base plate (GSS 160-1 A Multi) (see figure A)

Unscrew the four screws **8** completely. Put a suitable base plate on and retighten the screws.

Replacing the Sanding Plate (see figure A)

The sanding plate **6** can be replaced, if required.

Unscrew the four screws completely **8** and remove the sanding sheet **6**. Put the new sanding sheet **6** on and retighten the screws.

Replacing the Sanding Sheet

When attaching a new sanding sheet, remove any dust or debris from the sanding plate **6** (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 B)

Sanding plates **6** fitted with Velcro backing can be used to fasten sanding sheets with Velcro adhesion quickly and easily.

Before attaching the sanding sheet **9**, free the Velcro backing of the sanding plate **6** from any debris by tapping against it in order to enable optimum adhesion.

Position the sanding sheet **9** flush alongside one edge of the sanding plate **6**, then lay the sanding sheet onto the sanding plate and press firmly.

To remove the sanding sheet **9**, grasp it at one of the tips and pull it off from the sanding plate **6**.

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**Sanding Sheets without Velcro Backing
(see figures C – E)**

- ❶ Unlock both sanding-sheet clamps **11** and swivel them downwards.
- ❷ Insert the sanding sheet **9** under the rear clamping bracket **10**. Ensure that the sanding sheet **9** is not too short and that it is correctly clamped. Swivel the sanding-sheet clamp **11** back into the starting position and lock it there.
- ❸ Place the sanding paper taut around the sanding plate **6**. Clamp the front part of the sanding sheet under the front clamping bracket **12**. Ensure that the sanding sheet **9** is not too short and that it is correctly clamped. Swivel the sanding-sheet clamp **11** back into the starting position and lock it there.

Sanding sheets without holes, e. g. from rolls or by the metre, can be punctured with the perforating tool **13**. For this, push the power tool with the sanding sheet mounted onto the perforating tool (see figure F).

To remove the sanding sheet **9**, unlock both sanding-sheet clamps **11** and pull the sanding sheet out of its holder.

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, 120	
For finish and fine sanding of hard woods	fine	180, 240	
white:Paint 40 – 240			
For the working of paint/enamel coats or primers and fillers			
For sanding off paint	coarse	40, 60	
For sanding primer	medium	80, 120	
For final sanding of primers before coating	fine	180, 240	

Dust/Chip Extraction

- Dust 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 dust can cause allergic reactions and/or lead to respiratory infections of the user or bystanders. Certain dust, such as oak or beech dust, is considered 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 workplace.** Dust can easily ignite.

**Integrated Dust Extraction with Dust Box
(see figure G – J)**

Slide the dust box **2** onto the extraction outlet **14**.

The filling level of the dust box **2** can easily be checked through the transparent container.

To empty the dust box **2**, pull it off toward the rear with a slight twisting motion.

Unscrew the filter element **15** from the dust box **2**. Empty the dust box.

To loosen the dust, gently strike or tap the filter element **15** against a firm surface. Clean the lamellas of the filter element **15** with a soft brush.

Note: To ensure optimum dust extraction, empty the dust box **2** in good time and clean the filter element **15** at regular intervals.

When working vertical surfaces, hold the power tool in such a manner that the dust box **2** faces downward.

External Dust Extraction (see figure K)

Attach the vacuum hose **16** (accessory) to the extraction outlet **14**. Connect the vacuum hose **16** to a vacuum cleaner (accessory).

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.

When working vertical surfaces, hold the power tool in such a manner that the vacuum hose faces downward.

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, tilt the On/Off switch **1** toward the right to the "I" position.

To **switch off** the machine, tilt the On/Off switch **1** toward the left to the "0" position.

To save energy, only switch the power tool on when using it.

Working Advice

- **Wait until the machine has come to a standstill before placing it down.**
- **Before any work on the machine itself, pull the mains plug.**

The removal capacity during sanding is mainly determined by the selection of the sanding sheet.

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 replacement of the supply cord is necessary, this has to be done by Bosch or an authorized Bosch service agent in order to avoid a safety hazard.

After-sales Service and Application Service

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

Bosch's application service team will gladly answer questions concerning our products and their accessories.

In all correspondence and spare parts orders, please always include the 10-digit article number given on the nameplate of the product.

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At www.bosch-pt.co.uk you can order spare parts or arrange the collection of a product in need of servicing or repair.

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Disposal

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

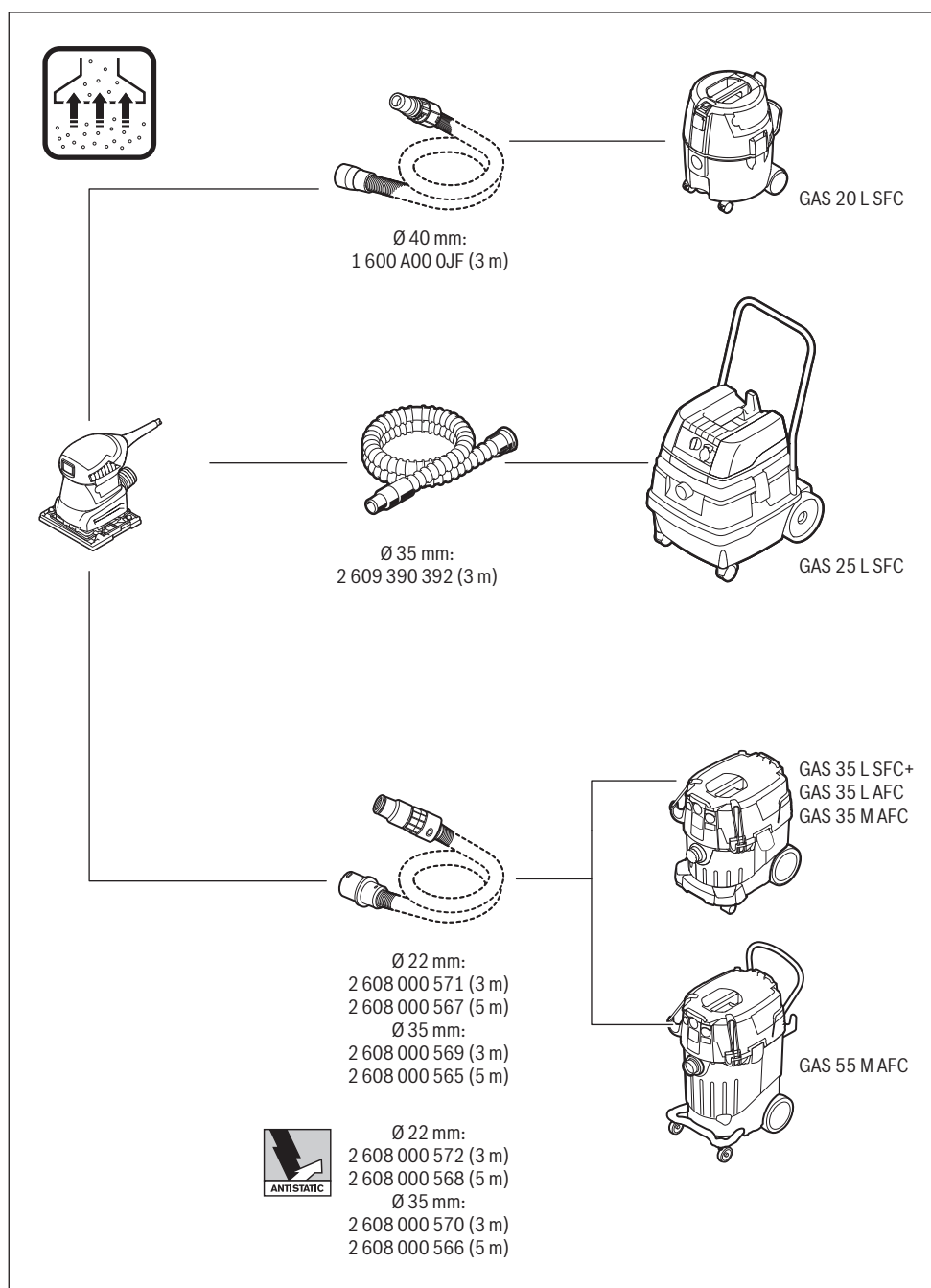
Do not dispose of power tools into household waste!

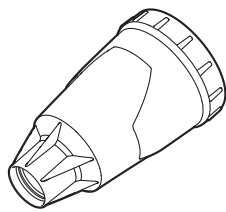
Only for EC countries:



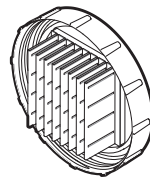
According to the European Directive 2012/19/EU for Waste Electrical and Electronic Equipment and its implementation into national right, power tools that are no longer usable must be collected separately and disposed of in an environmentally correct manner.

Subject to change without notice.

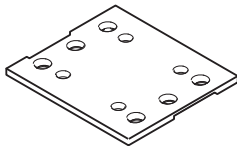




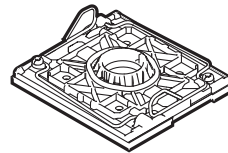
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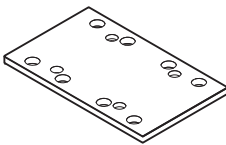
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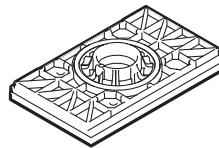
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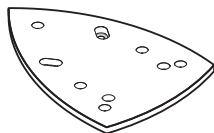
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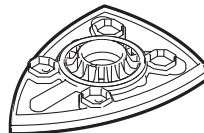
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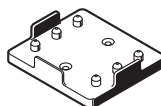
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