

**WEU**

**Robert Bosch GmbH**  
Power Tools Division  
70745 Leinfelden-Echterdingen  
Germany

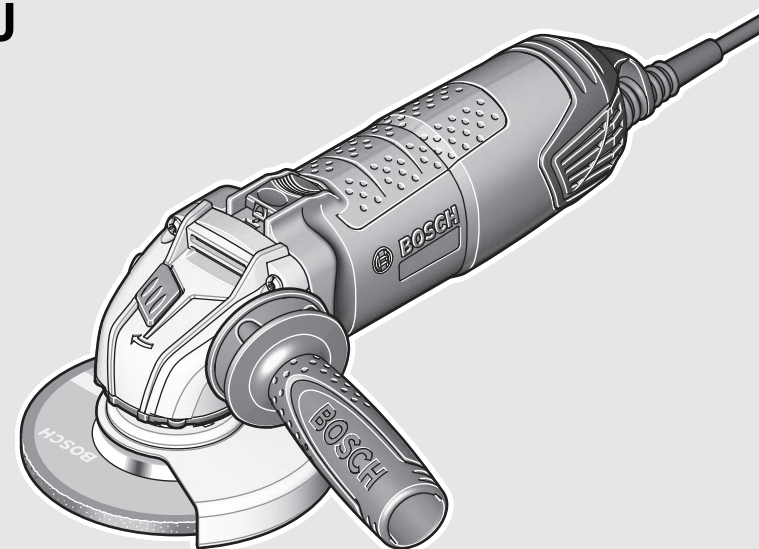
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**2 609 006 763** (2013.01) O / 139 **WEU**



**2 609 006 763**

**WEU**



**PWS**

680-115 | 700 | 7-115 | 700-115 | 7000 | 700-125 | 720-115 | 730-115 |  
750-115 | 750-125 | 780-125 | 75-115 | 7500 | 7800 | 850-115 | 850-125

 **BOSCH**

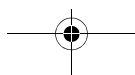
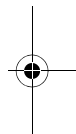
**de** Originalbetriebsanleitung  
**en** Original instructions  
**fr** Notice originale  
**es** Manual original  
**pt** Manual original  
**it** Istruzioni originali  
**nl** Oorspronkelijke gebruiks-  
aanwijzing  
**da** Original brugsanvisning  
**sv** Bruksanvisning i original  
**no** Original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

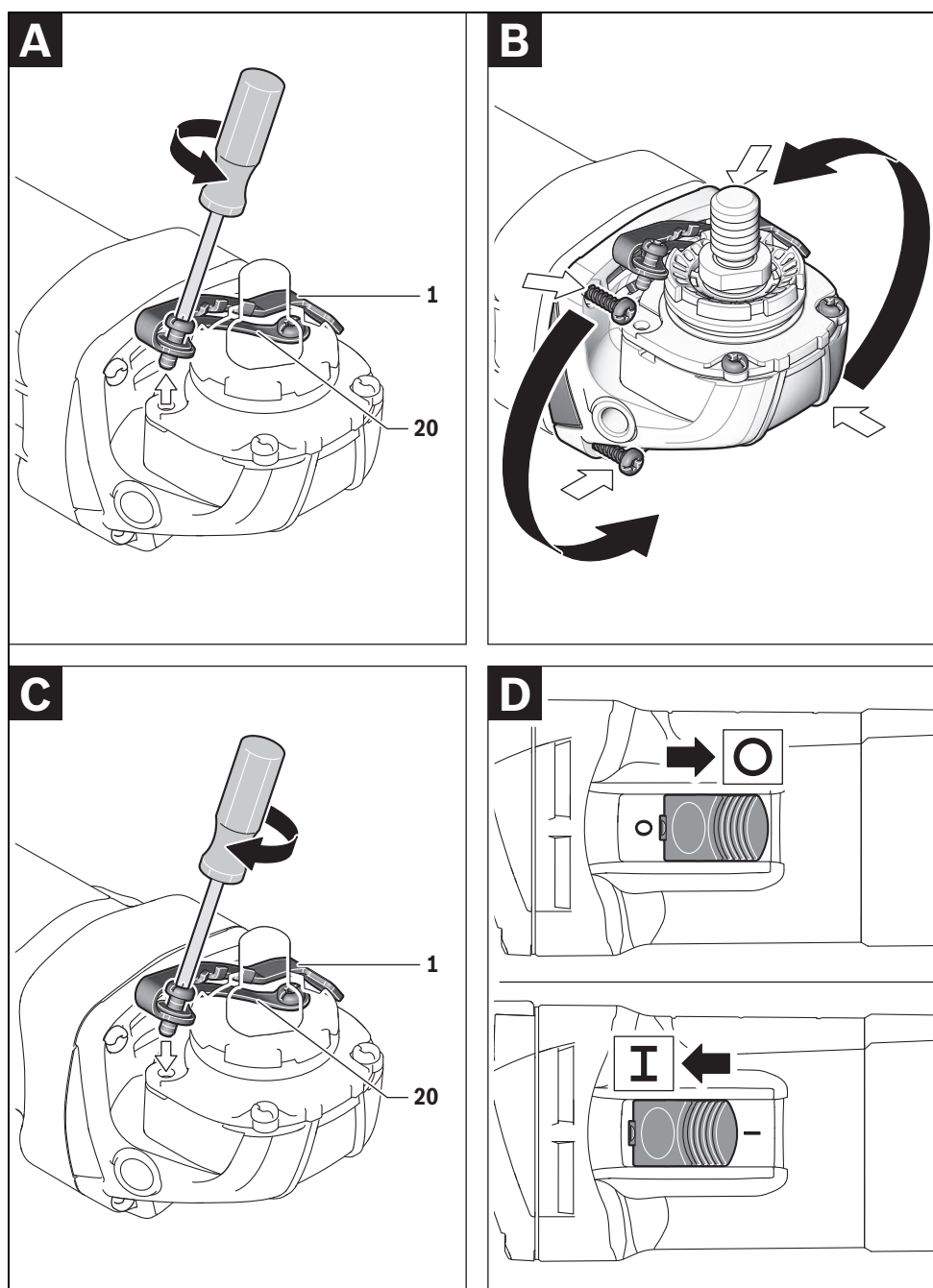
**el** Πρωτότυπο οδηγιών χρήσης  
**tr** Orijinal işletme talimatı

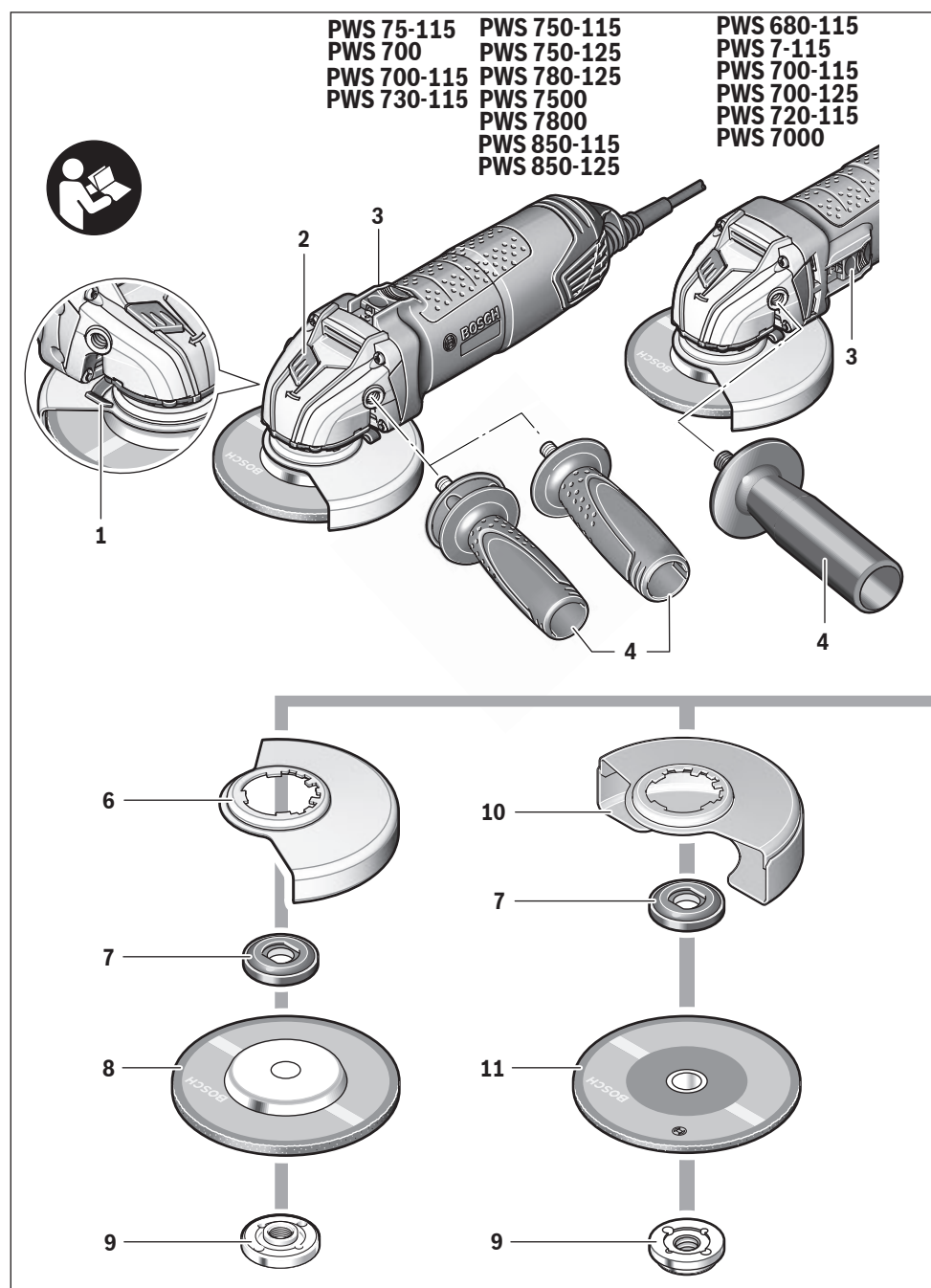


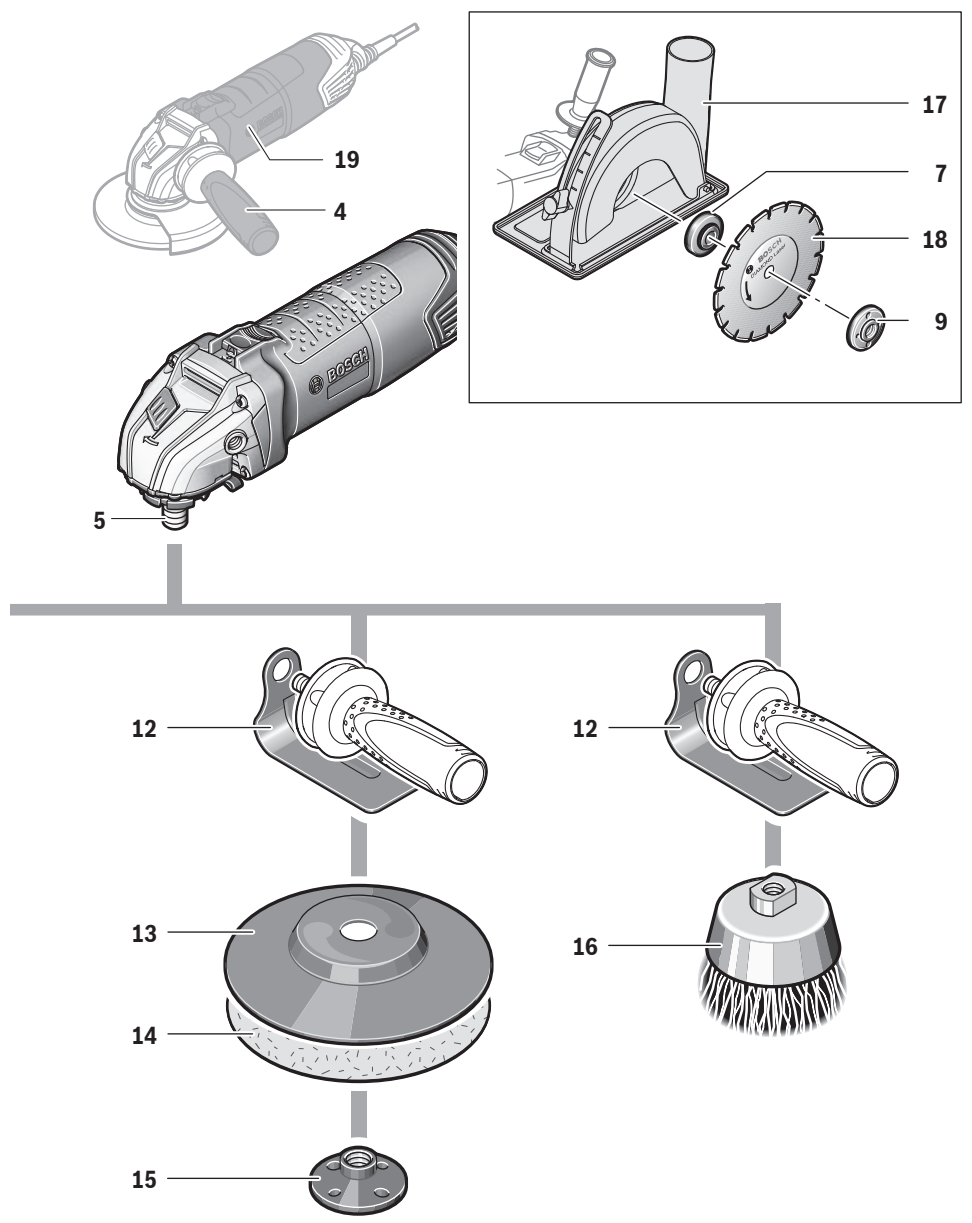


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**16 | English**

Sollte das Elektrowerkzeug trotz sorgfältiger Herstellungs- und Prüfverfahren einmal ausfallen, ist die Reparatur von einer autorisierten Kundendienststelle für Bosch-Elektrowerkzeuge ausführen zu lassen.

Geben Sie bei allen Rückfragen und Ersatzteilbestellungen bitte unbedingt die 10-stellige Sachnummer laut Typenschild des Elektrowerkzeugs an.

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Der Kundendienst beantwortet Ihre Fragen zu Reparatur und Wartung Ihres Produkts sowie zu Ersatzteilen. Explosionszeichnungen und Informationen zu Ersatzteilen finden Sie auch unter:

**www.bosch-pt.com**

Das Bosch-Anwendungsberatungs-Team hilft Ihnen gerne bei Fragen zu unseren Produkten und deren Zubehör.

**www.bosch-do-it.de**, das Internetportal für Heimwerker und Gartenfreunde.

**www.1-2-do.com**

In der Heimwerker-Community 1-2-do.com können Sie Produkttester werden, Ideen sammeln oder sich mit anderen Heimwerkern austauschen.

**www.dha.de**, das komplette Service-Angebot der Deutschen Heimwerker Akademie.

**Deutschland**

Robert Bosch GmbH

Servicezentrum Elektrowerkzeuge

Zur Luhne 2

37589 Kalefeld Willershausen

Unter **www.bosch-pt.com** können Sie online Ersatzteile bestellen oder Reparaturen anmelden.

Kundendienst: Tel.: (0711) 40040480

Fax: (0711) 40040481

E-Mail: [Servicezentrum.Elektrowerkzeuge@de.bosch.com](mailto:Servicezentrum.Elektrowerkzeuge@de.bosch.com)

Anwendungsberatung: Tel.: (0711) 40040480

Fax: (0711) 40040482

E-Mail: [Anwendungsberatung.pt@de.bosch.com](mailto:Anwendungsberatung.pt@de.bosch.com)

**Österreich**

Tel.: (01) 797222010

Fax: (01) 797222011

E-Mail: [service.elektrowerkzeuge@at.bosch.com](mailto:service.elektrowerkzeuge@at.bosch.com)

**Schweiz**

Tel.: (044) 8471511

Fax: (044) 8471551

E-Mail: [Aftersales.Service@de.bosch.com](mailto:Aftersales.Service@de.bosch.com)

**Luxemburg**

Tel.: +32 2 588 0589

Fax: +32 2 588 0595

E-Mail: [outillage.gereedschap@be.bosch.com](mailto:outillage.gereedschap@be.bosch.com)

**Entsorgung**

Elektrowerkzeuge, Zubehör und Verpackungen sollen einer umweltgerechten Wiederverwertung zugeführt werden.

Werfen Sie Elektrowerkzeuge nicht in den Hausmüll!

**Nur für EU-Länder:**

Gemäß der Europäischen Richtlinie 2002/96/EG über Elektro- und Elektronik-Altgeräte und ihrer Umsetzung in nationales Recht müssen nicht mehr gebrauchsfähige Elektrowerkzeuge getrennt gesammelt und einer umweltgerechten Wiederverwertung zugeführt werden.

Änderungen vorbehalten.

**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.

#### Safety Warnings for Angle Grinder

##### Safety Warnings common for Grinding, Sanding, Wire Brushing or Abrasive Cutting Off Operations

- ▶ **This power tool is intended to function as a grinder, sander, wire brush or cut-off tool. Read all safety warnings, instructions, illustrations and specifications provided with this power tool.** Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.
- ▶ **Operations such as polishing are not recommended to be performed with this power tool.** Operations for which the power tool was not designed may create a hazard and cause personal injury.
- ▶ **Do not use accessories which are not specifically designed and recommended by the tool manufacturer.** Just because the accessory can be attached to your power tool, it does not assure safe operation.
- ▶ **The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool.** Accessories running faster than their rated speed can break and fly apart.
- ▶ **The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool.** Incorrectly sized accessories cannot be adequately guarded or controlled.
- ▶ **Threaded mounting of accessories must match the grinder spindle thread. For accessories mounted by flanges, the arbour hole of the accessory must fit the locating diameter of the flange.** Accessories that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.
- ▶ **Do not use a damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips and cracks, backing pad for cracks, tear or excess wear, wire brush for loose or cracked wires. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting and installing an accessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute.** Damaged accessories will normally break apart during this test time.

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- ▶ **Wear personal protective equipment.** Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or workpiece fragments. The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtering particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.
- ▶ **Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment.** Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.
- ▶ **Hold the power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring or its own cord.** Cutting accessory contacting a live wire may make exposed metal parts of the power tool live and could give the operator an electric shock.
- ▶ **Position the cord clear of the spinning accessory.** If you lose control of the power tool, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.
- ▶ **Never lay the power tool down until the accessory has come to a complete stop.** The spinning accessory may grab the surface and pull the power tool out of your control.
- ▶ **Do not run the power tool while carrying it at your side.** Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.
- ▶ **Regularly clean the power tool's air vents.** The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.
- ▶ **Do not operate the power tool near flammable materials.** Sparks could ignite these materials.
- ▶ **Do not use accessories that require liquid coolants.** Using water or other liquid coolants may result in electrocution or shock.
- ▶ **Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up.** The operator can control torque reactions or kickback forces, if proper precautions are taken.
- ▶ **Never place your hand near the rotating accessory.** Accessory may kickback over your hand.
- ▶ **Do not position your body in the area where power tool will move if kickback occurs.** Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.
- ▶ **Use special care when working corners, sharp edges, etc. Avoid bouncing and snagging the accessory.** Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.
- ▶ **Do not attach a saw chain woodcarving blade or toothed saw blade.** Such blades create frequent kickback and loss of control.

#### Safety warnings specific for Grinding and Abrasive Cutting-Off operations

- ▶ **Use only wheel types that are recommended for your power tool and the specific guard designed for the selected wheel.** Wheels for which the power tool was not designed cannot be adequately guarded and are unsafe.
- ▶ **The grinding surface of the centre depressed wheels must be mounted below the plane of the guard lip.** An improperly mounted wheel that projects through the plane of the guard lip cannot be adequately protected.
- ▶ **The guard must be securely attached to the power tool and positioned for maximum safety, so the least amount of wheel is exposed towards the operator.** The guard helps to protect operator from broken wheel fragments, accidental contact with wheel and sparks that could ignite clothing.
- ▶ **Wheels must be used only for recommended applications. For example: do not grind with the side of the cut-off wheel.** Abrasive cut-off wheels are intended for peripheral grinding; side forces applied to these wheels may cause them to shatter.
- ▶ **Always use undamaged wheel flanges that are of correct size and shape for your selected wheel.** Proper wheel flanges support the wheel thus reducing the possibility of wheel breakage. Flanges for cut-off wheels may be different from grinding wheel flanges.
- ▶ **Do not use worn down wheels from larger power tools.** Wheels intended for larger power tools are not suitable for the higher speed of a smaller tool and may burst.

#### Additional safety warnings specific for abrasive cutting off operations

- ▶ **Do not "jam" the cut-off wheel or apply excessive pressure. Do not attempt to make an excessive depth of cut.** Overstressing the wheel increases the loading and susceptibility to twisting or binding of the wheel in the cut and the possibility of kickback or wheel breakage.

#### Kickback and related warnings

- ▶ Kickback is a sudden reaction to a pinched or snagged rotating wheel, backing pad, brush or any other accessory. Pinching or snagging causes rapid stalling of the rotating accessory which in turn causes the uncontrolled power tool to be forced in the direction opposite to the accessory's rotation at the point of the binding. For example, if an abrasive wheel is snagged or pinched by the workpiece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending on direction of the wheel's movement at the point of pinching. Abrasive wheels may also break under these conditions. Kickback is the result of power tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

- ▶ **Do not position your body in line with and behind the rotating wheel.** When the wheel, at the point of operation, is moving away from your body, the possible kickback may propel the spinning wheel and the power tool directly at you.
- ▶ **When wheel is binding or when interrupting a cut for any reason, switch off the power tool and hold the power tool motionless until the wheel comes to a complete stop. Never attempt to remove the cut-off wheel from the cut while the wheel is in motion otherwise kickback may occur.** Investigate and take corrective action to eliminate the cause of wheel binding.
- ▶ **Do not restart the cutting operation in the workpiece. Let the wheel reach full speed and carefully re-enter the cut.** The wheel may bind, walk up or kickback if the power tool is restarted in the workpiece.
- ▶ **Support panels or any oversized workpiece to minimize the risk of wheel pinching and kickback.** Large workpieces tend to sag under their own weight. Supports must be placed under the workpiece near the line of cut and near the edge of the workpiece on both sides of the wheel.
- ▶ **Use extra caution when making a "pocket cut" into existing walls or other blind areas.** The protruding wheel may cut gas or water pipes, electrical wiring or objects that can cause kickback.

#### Safety warnings specific for sanding operations

- ▶ **Do not use excessively oversized sanding disc paper. Follow manufacturers recommendations, when selecting sanding paper.** Larger sanding paper extending beyond the sanding pad presents a laceration hazard and may cause snagging, tearing of the disc, or kickback.

#### Safety warnings specific for wire brushing operations

- ▶ **Be aware that wire bristles are thrown by the brush even during ordinary operation. Do not overstress the wires by applying excessive load to the brush.** The wire bristles can easily penetrate light clothing and/or skin.
- ▶ **If the use of a guard is recommended for wire brushing, do not allow any interference of the wire wheel or brush with the guard.** Wire wheel or brush may expand in diameter due to work load and centrifugal forces.

#### Additional safety warnings



**Wear safety goggles.**

- ▶ **Use suitable detectors to determine if utility lines are hidden in the work area or call the local utility company for assistance.** Contact with electric lines can lead to fire and electric shock. Damaging a gas line can lead to explosion. Penetrating a water line causes property damage or may cause an electric shock.
- ▶ **Release the On/Off switch and set it to the off position when the power supply is interrupted, e. g., in case of a power failure or when the mains plug is pulled.** This prevents uncontrolled restarting.

- ▶ **Do not touch grinding and cutting discs before they have cooled down.** The discs can become very hot while 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 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.

## 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.

### Intended Use

The machine is intended for cutting, roughing and brushing of metal and stone materials without the use of water.

For cutting with bonded abrasives, a special cutting guide (accessory) must be used.

When cutting in stone, provide for sufficient dust extraction. With approved sanding tools, the machine can be used for sanding with sanding discs.

### Product Features

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

- 1 Release lever for protection guard
- 2 Spindle lock button
- 3 On/Off switch
- 4 Auxiliary handle (insulated gripping surface)
- 5 Grinder spindle
- 6 Protection guard for grinding
- 7 Mounting flange
- 8 Grinding wheel\*
- 9 Clamping nut
- 10 Protection guard for cutting\*
- 11 Cutting disc\*
- 12 Hand guard\*
- 13 Rubber sanding plate\*
- 14 Sanding sheet\*
- 15 Round nut\*
- 16 Cup brush\*

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17 Cutting guide with dust extraction protection guard \*

18 Diamond cutting disc \*

19 Handle (insulated gripping surface)

20 Securing device (only 3 603 CA2 0..)

\*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.

## Noise/Vibration Information

| Measured sound values determined according to EN 60745.                                              | PWS ...<br>3 603 ... | 680-115<br>CA2 0.. | 700<br>CA2 0..     | 7-115<br>CA2 0..   | 700-115<br>CA2 0.. | 7000<br>CA2 0..    | 700-125<br>CA2 0.. |
|------------------------------------------------------------------------------------------------------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Typically the A-weighted noise levels of the product are                                             |                      |                    |                    |                    |                    |                    |                    |
| Sound pressure level                                                                                 | dB(A)                | 91                 | 91                 | 91                 | 91                 | 91                 | 91                 |
| Sound power level                                                                                    | dB(A)                | 102                | 102                | 102                | 102                | 102                | 102                |
| Uncertainty K =                                                                                      | dB                   | 3                  | 3                  | 3                  | 3                  | 3                  | 3                  |
| <b>Wear hearing protection!</b>                                                                      |                      |                    |                    |                    |                    |                    |                    |
| Vibration total values $a_h$ (tri-ax vector sum) and uncertainty K determined according to EN 60745: |                      |                    |                    |                    |                    |                    |                    |
| Surface grinding:                                                                                    |                      |                    |                    |                    |                    |                    |                    |
| $a_h$                                                                                                | m/s <sup>2</sup>     | 8.0                | 8.0                | 8.0                | 8.0                | 8.0                | 8.0                |
| K                                                                                                    | m/s <sup>2</sup>     | 1.5                | 1.5                | 1.5                | 1.5                | 1.5                | 1.5                |
| Disk sanding:                                                                                        |                      |                    |                    |                    |                    |                    |                    |
| $a_h$                                                                                                | m/s <sup>2</sup>     | 5.5                | 5.5                | 5.5                | 5.5                | 5.5                | 5.5                |
| K                                                                                                    | m/s <sup>2</sup>     | 1.5                | 1.5                | 1.5                | 1.5                | 1.5                | 1.5                |
| Measured sound values determined according to EN 60745.                                              | PWS ...<br>3 603 ... | 700-115<br>CA2 4.. | 720-115<br>CA2 4.. | 730-115<br>CA2 4.. | 750-115<br>CA2 4.. | 750-125<br>CA2 4.. | 75-115<br>CA2 4..  |
| Typically the A-weighted noise levels of the product are                                             |                      |                    |                    |                    |                    |                    |                    |
| Sound pressure level                                                                                 | dB(A)                | 93                 | 93                 | 93                 | 93                 | 92                 | 93                 |
| Sound power level                                                                                    | dB(A)                | 104                | 104                | 104                | 104                | 103                | 104                |
| Uncertainty K =                                                                                      | dB                   | 3                  | 3                  | 3                  | 3                  | 3                  | 3                  |
| <b>Wear hearing protection!</b>                                                                      |                      |                    |                    |                    |                    |                    |                    |
| Vibration total values $a_h$ (tri-ax vector sum) and uncertainty K determined according to EN 60745: |                      |                    |                    |                    |                    |                    |                    |
| Surface grinding:                                                                                    |                      |                    |                    |                    |                    |                    |                    |
| $a_h$                                                                                                | m/s <sup>2</sup>     | 10.0               | 10.0               | 10.0               | 10.0               | 10.0               | 10.0               |
| K                                                                                                    | m/s <sup>2</sup>     | 1.5                | 1.5                | 1.5                | 1.5                | 1.5                | 1.5                |
| Disk sanding:                                                                                        |                      |                    |                    |                    |                    |                    |                    |
| $a_h$                                                                                                | m/s <sup>2</sup>     | 5.0                | 5.0                | 5.0                | 5.0                | 5.0                | 5.0                |
| K                                                                                                    | m/s <sup>2</sup>     | 1.5                | 1.5                | 1.5                | 1.5                | 1.5                | 1.5                |
| Measured sound values determined according to EN 60745.                                              | PWS ...<br>3 603 ... | 780-125<br>CA2 7.. | 7500<br>CA2 4..    | 7800<br>CA2 7..    | 850-115<br>CA2 7.. | 850-125<br>CA2 7.. |                    |
| Typically the A-weighted noise levels of the product are                                             |                      |                    |                    |                    |                    |                    |                    |
| Sound pressure level                                                                                 | dB(A)                | 92                 | 93                 | 92                 | 93                 |                    | 92                 |
| Sound power level                                                                                    | dB(A)                | 103                | 104                | 103                | 104                |                    | 103                |
| Uncertainty K =                                                                                      | dB                   | 3                  | 3                  | 3                  | 3                  |                    | 3                  |
| <b>Wear hearing protection!</b>                                                                      |                      |                    |                    |                    |                    |                    |                    |

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| Measured sound values determined according to EN 60745.                                              | PWS ...<br>3 603 ... | 780-125<br>CA2 7.. | 7500<br>CA2 4.. | 7800<br>CA2 7.. | 850-115<br>CA2 7.. | 850-125<br>CA2 7.. |
|------------------------------------------------------------------------------------------------------|----------------------|--------------------|-----------------|-----------------|--------------------|--------------------|
| Vibration total values $a_h$ (tri-ax vector sum) and uncertainty K determined according to EN 60745: |                      |                    |                 |                 |                    |                    |
| Surface grinding:                                                                                    |                      |                    |                 |                 |                    |                    |
| $a_h$                                                                                                | m/s <sup>2</sup>     | 10.0               | 10.0            | 10.0            | 10.0               | 10.0               |
| K                                                                                                    | m/s <sup>2</sup>     | 1.5                | 1.5             | 1.5             | 1.5                | 1.5                |
| Disk sanding:                                                                                        |                      |                    |                 |                 |                    |                    |
| $a_h$                                                                                                | m/s <sup>2</sup>     | 5.0                | 5.0             | 5.0             | 5.0                | 5.0                |
| K                                                                                                    | m/s <sup>2</sup>     | 1.5                | 1.5             | 1.5             | 1.5                | 1.5                |

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 hands warm, organise work patterns.

### Technical Data

| Angle Grinder                                                                                                                                   | PWS ...           | 680-115 | 700     | 7-115   | 700-115 | 7000    | 700-125 |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------|---------|---------|---------|---------|---------|
| Article number                                                                                                                                  | 3 603 ...         | CA2 0.. | CA2 0.. | CA2 0.. | CA2 0.. | CA2 0.. | CA2 0.. |
| Rated power input                                                                                                                               | W                 | 701     | 701     | 701     | 701     | 701     | 701     |
| Rated speed                                                                                                                                     | min <sup>-1</sup> | 11000   | 11000   | 11000   | 11000   | 11000   | 11000   |
| Grinding disc diameter, max.                                                                                                                    | mm                | 115     | 115     | 115     | 115     | 115     | 125     |
| Thread of grinder spindle                                                                                                                       |                   | M 14    | M 14    | M 14    | M 14    | M 14    | M 14    |
| Thread length (max.) of grinder spindle                                                                                                         | mm                | 21      | 21      | 21      | 21      | 21      | 21      |
| Weight according to EPTA-Procedure 01/2003 with standard-auxiliary handle                                                                       | kg                | 1.7     | 1.7     | 1.7     | 1.7     | 1.7     | 1.7     |
| 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. |                   |         |         |         |         |         |         |

| Angle Grinder                                                                                                                                   | PWS ...           | 700-115  | 720-115  | 730-115  | 750-115  | 750-125  | 75-115   | 7500     |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------|----------|----------|----------|----------|----------|----------|
| Article number                                                                                                                                  | 3 603 ...         | CA2 4 .. | CA2 4 .. | CA2 4 .. | CA2 4 .. | CA2 4 .. | CA2 4 .. | CA2 4 .. |
| Rated power input                                                                                                                               | W                 | 701      | 720      | 730      | 750      | 750      | 750      | 750      |
| Rated speed                                                                                                                                     | min <sup>-1</sup> | 12000    | 12000    | 12000    | 12000    | 12000    | 12000    | 12000    |
| Grinding disc diameter, max.                                                                                                                    | mm                | 115      | 115      | 115      | 115      | 125      | 115      | 125      |
| Thread of grinder spindle                                                                                                                       |                   | M 14     | M 14     | M 14     | M 14     | M 14     | M 14     | M 14     |
| Thread length (max.) of grinder spindle                                                                                                         | mm                | 21       | 21       | 21       | 21       | 21       | 21       | 21       |
| Weight according to EPTA-Procedure 01/2003 with standard-auxiliary handle                                                                       | kg                | 1.8      | 1.8      | 1.8      | 1.8      | 1.8      | 1.8      | 1.8      |
| Protection class                                                                                                                                |                   | □/II     | □/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. |                   |          |          |          |          |          |          |          |

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| Angle Grinder                                                             | PWS ...           | 780-125 | 7800    | 850-115 | 850-125 |
|---------------------------------------------------------------------------|-------------------|---------|---------|---------|---------|
| Article number                                                            | 3 603 ...         | CA2 7.. | CA2 7.. | CA2 7.. | CA2 7.. |
| Rated power input                                                         | W                 | 780     | 780     | 850     | 850     |
| Rated speed                                                               | min <sup>-1</sup> | 12 000  | 12 000  | 12 000  | 12 000  |
| Grinding disc diameter, max.                                              | mm                | 125     | 125     | 115     | 125     |
| Thread of grinder spindle                                                 |                   | M 14    | M 14    | M 14    | M 14    |
| Thread length (max.) of grinder spindle                                   | mm                | 21      | 21      | 21      | 21      |
| Weight according to EPTA-Procedure 01/2003 with standard-auxiliary handle | kg                | 1.8     | 1.8     | 1.8     | 1.8     |
| Protection class                                                          |                   | □/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.

## 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 2011/65/EU, 2004/108/EC, 2006/42/EC.

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

Dr. Egbert Schneider      Helmut Heinzelmann  
Senior Vice President      Head of Product Certification  
Engineering                  PT/ETM9

Robert Bosch GmbH, Power Tools Division  
D-70745 Leinfelden-Echterdingen  
04.12.2012

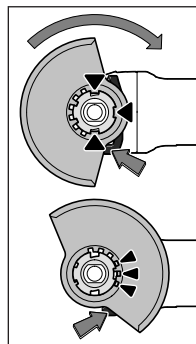
## Assembly

### Mounting the Protective Devices

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

**Note:** After breakage of the grinding disc during operation or damage to the holding fixtures on the protection guard/power tool, the machine must promptly be sent to an after-sales service agent for maintenance for addresses, see section After-sales Service and Application Service.

### Protection Guard for Grinding



Place the protection guard **6** onto the spindle collar of the machine until the encoding keys of the protection guard agree with the spindle collar. Press and hold the release lever **1** while doing this.

Press the protection guard **6** onto the spindle collar until the shoulder of the protection guard is seated against the flange of the machine, and turn the protection guard until it can clearly be heard to engage.

Adjust the position of the protection guard **6** to the requirements

of the work process. For this, press the release lever **1** upward and turn the protection guard **6** to the required position.

- Always adjust the protection guard **6** in such a manner that all 3 red cams of release lever **1** engage into the corresponding notches of the protection guard **6**.
- Adjust the protection guard **6** in such a manner that sparking is prevented in the direction of the operator.
- The protection guard **6** may be turned only upon actuation of the release lever **1**! Otherwise the power tool may not continue to be used under any circumstances and must be taken to an after-sales service agent.

**Note:** The encoding keys on the protection guard **6** ensure that only a protection guard that fits the machine type can be mounted.

### Protection Guard for Cutting

- For cutting with bonded abrasives, always use the protection guard for cutting **10**.
- Provide for sufficient dust extraction when cutting stone.

The protection guard for cutting **10** is mounted in the same manner as the protection guard for grinding **6**.

**Cutting Guide with Dust Extraction Protection Guard**

The cutting guide with dust extraction protection guard **17** is mounted in the same manner as the protection guard for grinding **6**.

**Auxiliary Handle**

- **Operate your machine only with the auxiliary handle 4.**

Screw the auxiliary handle **4** on the right or left of the machine head depending on the working method.

**Hand Guard**

- **For operations with the rubber sanding plate 13 or with the cup brush/wheel brush/flap disc, always mount the hand guard 12.**

The hand guard **12** is fastened with the auxiliary handle **4**.

**Mounting the Grinding Tools**

- **Before any work on the machine itself, pull the mains plug.**
- **Do not touch grinding and cutting discs before they have cooled down.** The discs can become very hot while working.

Clean the grinder spindle **5** and all parts to be mounted.

For clamping and loosening the grinding tools, lock the grinder spindle with the spindle lock button **2**.

- **Actuate the spindle lock button only when the grinder spindle is at a standstill.** Otherwise, the machine may become damaged.

**Grinding/Cutting Disc**

Pay attention to the dimensions of the grinding tools. The mounting hole diameter must fit the mounting flange without play. Do not use reducers or adapters.

When using diamond cutting discs, pay attention that the direction-of-rotation arrow on the diamond cutting disc and the direction of rotation of the machine (see direction-of-rotation arrow on the machine head) agree.

See graphics page for the mounting sequence.

To fasten the grinding/cutting disc, screw on the clamping nut **9** and tighten with the two-hole spanner.

- **After mounting the grinding tool and before switching on, check that the grinding tool is correctly mounted and that it can turn freely. Make sure that the grinding tool does not graze against the protection guard or other parts.**

**Flap Disc**

- **For operations with the flap disc, always mount the hand guard 12.**

**Rubber Sanding Plate**

- **For operations with the rubber sanding plate 13, always mount the hand guard 12.**

See graphics page for the mounting sequence.

Screw on the round nut **15** and tighten with the two-pin spanner.

**Cup Brush/Disc Brush**

- **For operations with the cup brush/wheel brush, always mount the hand guard 12.**

See graphics page for the mounting sequence.

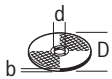
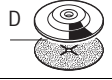
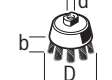
The cup brush/disc brush must be able to be screwed onto the grinder spindle until it rests firmly against the grinder spindle flange at the end of the grinder spindle threads. Tighten the cup brush/disc brush with an open-end spanner.

**Approved Grinding Tools**

All grinding tools mentioned in these operating instructions can be used.

The permissible speed [ $\text{min}^{-1}$ ] or the circumferential speed [ $\text{m/s}$ ] of the grinding tools used must at least match the values given in the table.

Therefore, observe the permissible **rotational/circumferential speed** on the label of the grinding tool.

|                                                                                     | max.<br>[mm] |    |      |                       |       |
|-------------------------------------------------------------------------------------|--------------|----|------|-----------------------|-------|
|                                                                                     | D            | b  | d    | [ $\text{min}^{-1}$ ] | [m/s] |
|   | 115          | 6  | 22.2 | 11000                 | 80    |
|                                                                                     | 125          | 6  | 22.2 | 11000                 | 80    |
|  | 115          |    |      | 11000                 | 80    |
|                                                                                     | 125          |    |      | 11000                 | 80    |
|  | 75           | 30 | M 14 | 11000                 | 45    |

**Rotating the Machine Head**

**Only for power tools with the article number 3 603 CA2 0..:**

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

The machine head can be turned by  $180^\circ$ . This allows you to set the On/Off switch to a more favourable handling position for special jobs, e. g., for left-handers.

Remove the screw at securing device **20** of release lever **1** (see Fig. A).

Completely unscrew the 4 screws (see Fig. B). Carefully turn the machine head to the new position **without removing it from the housing**. Mount and tighten the 4 screws again.

Screw the securing device **20** of release lever **1** back onto the machine head (see Fig. C).

Observe the instructions under Mounting the Protective Devices. The protection guard may only be turned while actuating the release lever **1**.

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**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 workplace.** Dusts can easily ignite.

**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.**

When operating the machine with power from mobile generators that do not have sufficient reserve capacity or are not equipped with suitable voltage control with starting current amplification, loss of performance or untypical behavior can occur upon switching on.

Please observe the suitability of the power generator being used, particularly with regard to the mains voltage and frequency.

**Switching On and Off**

To **start** the power tool, push the On/Off switch **3** forwards.

To **lock** the On/Off switch **3**, press the On/Off switch **3** down at the front until it latches.

To **switch off** the power tool, release the On/Off switch **3** or, if it is locked, briefly push down the back of the On/Off switch **3** and then release it.

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

- **Check grinding tools before using. The grinding tool must be mounted properly and be able to move freely. Carry out a test run for at least one minute with no load. Do not use damaged, out-of-centre or vibrating grinding tools.** Damaged grinding tools can burst and cause injuries.

**Working Advice**

- **Exercise caution when cutting slots in structural walls; see Section "Information on Structures".**
- **Clamp the workpiece if it does not remain stationary due to its own weight.**
- **Do not strain the machine so heavily that it comes to a standstill.**

- **After heavily straining the power tool, continue to run it at no-load for several minutes to cool down the accessory.**

- **Do not touch grinding and cutting discs before they have cooled down.** The discs can become very hot while working.

- **Do not use the power tool with a cut-off stand.**

**Rough Grinding**

- **Never use a cutting disc for roughing.**

The best roughing results are achieved when setting the machine at an angle of 30° to 40°. Move the machine back and forth with moderate pressure. In this manner, the workpiece will not become too hot, does not discolour and no grooves are formed.

**Flap Disc**

With the flap disc (accessory), curved surfaces and profiles can be worked.

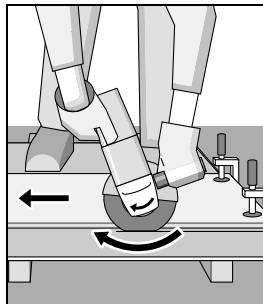
Flap discs have a considerably higher service life, lower noise levels and lower sanding temperatures than conventional sanding sheets.

**Cutting Metal**

- **For cutting with bonded abrasives, always use the protection guard for cutting 10.**

When cutting, work with moderate feed, adapted to the material being cut. Do not exert pressure onto the cutting disc, tilt or oscillate the machine.

Do not reduce the speed of running down cutting discs by applying sideward pressure.



The machine must always work in an up-grinding motion. Otherwise, the danger exists of it being pushed **uncontrolled** out of the cut.

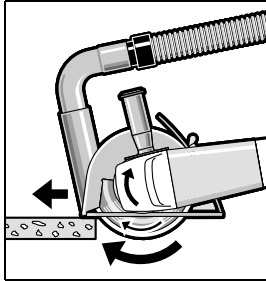
When cutting profiles and square bar, it is best to start at the smallest cross section.

**Cutting Stone**

- **Provide for sufficient dust extraction when cutting stone.**
- **Wear a dust respirator.**
- **The machine may be used only for dry cutting/grinding.**

For cutting stone, it is best to use a diamond cutting disc.

When using the cutting guide with dust extraction protection guard **17**, the vacuum cleaner must be approved for vacuuming masonry dust. Suitable vacuum cleaners are available from Bosch.



Switch on the machine and place the front part of the cutting guide on the workpiece. Slide the machine with moderate feed, adapted to the material to be worked.

For cutting especially hard material, e. g., concrete with high pebble content, the diamond cutting disc can overheat and become damaged as a result. This is clearly indicated by circular sparking, rotating with the diamond cutting disc. In this case, interrupt the cutting process and allow the diamond cutting disc to cool by running the machine for a short time at maximum speed with no load.

Noticeable decreasing work progress and circular sparking are indications of a diamond cutting disc that has become dull. Briefly cutting into abrasive material (e. g. lime-sand brick) can resharpen the disc again.

#### Information on Structures

Slots in structural walls are subject to the Standard DIN 1053 Part 1, or country-specific regulations. These regulations are to be observed under all circumstances. Before beginning work, consult the responsible structural engineer, architect or the construction supervisor.

## 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.**
- ▶ **In extreme conditions, always use dust extraction as far as possible. Blow out ventilation slots frequently and install a residual current device (RCD).** When working metals, conductive dust can settle in the interior of the power tool. The total insulation of the power tool can be impaired.

Please store and handle the accessory(-ies) carefully.

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.

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 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](http://www.bosch-pt.com)**

Bosch's application service team will gladly answer questions concerning our products and their 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: (0844) 7360109  
Fax: (0844) 7360146  
E-Mail: [boschservicecentre@bosch.com](mailto:boschservicecentre@bosch.com)

#### Ireland

Origo Ltd.  
Unit 23 Magna Drive  
Magna Business Park  
City West  
Dublin 24  
Tel. Service: (01) 4666700  
Fax: (01) 4666888

#### 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: (01300) 307044  
Fax: (01300) 307045  
Inside New Zealand:  
Phone: (0800) 543353  
Fax: (0800) 428570  
Outside AU and NZ:  
Phone: +61 3 95415555  
[www.bosch.com.au](http://www.bosch.com.au)

#### Republic of South Africa

##### Customer service

Hotline: (011) 6519600

##### Gauteng BSC Service Centre

35 Roper Street, New Centre  
Johannesburg  
Tel.: (011) 4939375  
Fax: (011) 4930126  
E-Mail: [bsctools@icon.co.za](mailto:bsctools@icon.co.za)