



BOSCH

PRO

GG S18V-28LPS | GGS18V-28LS

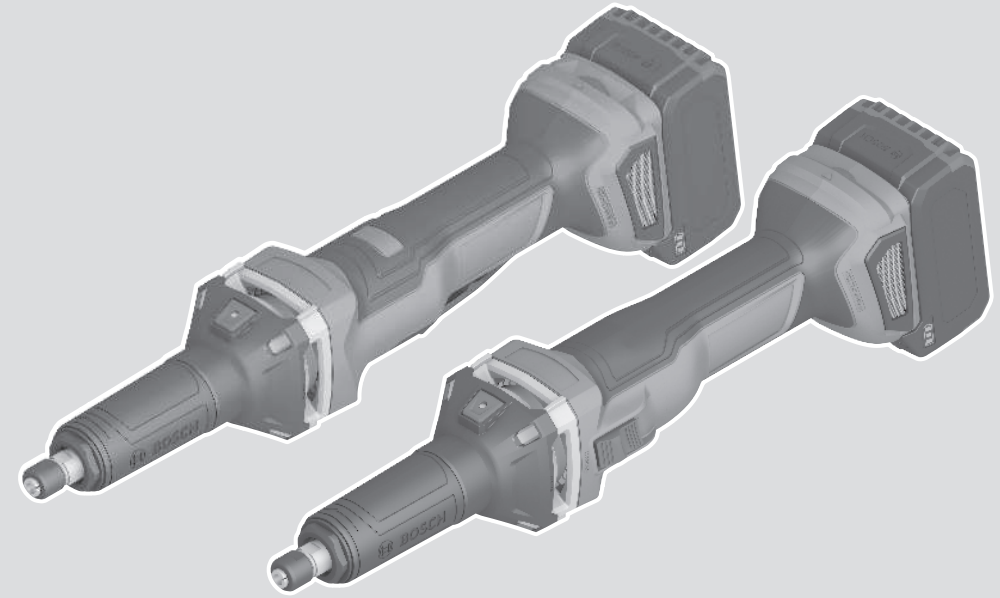
Robert Bosch Power Tools GmbH
70538 Stuttgart
GERMANY

www.bosch-pt.com

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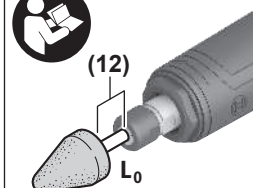
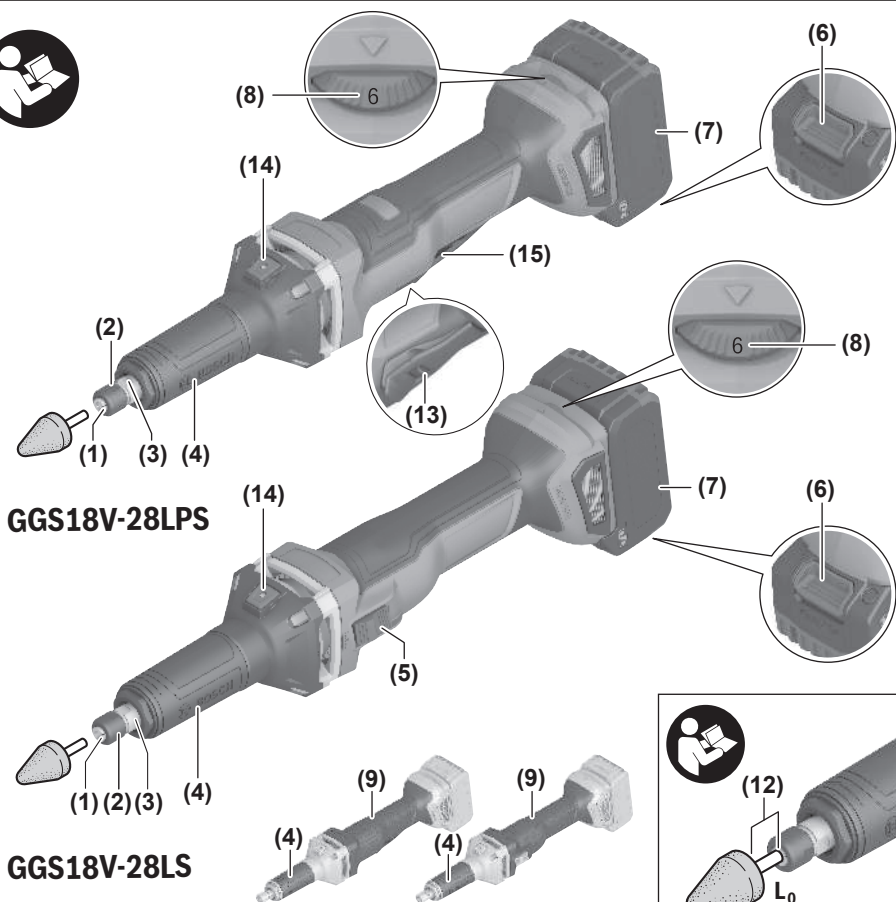
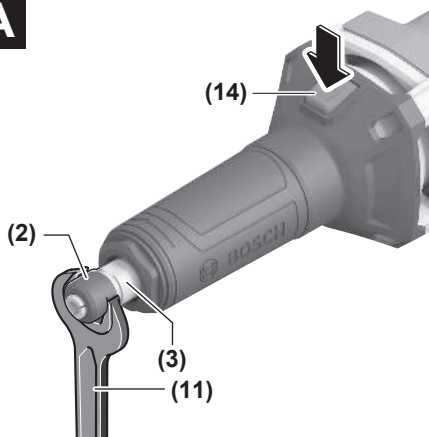
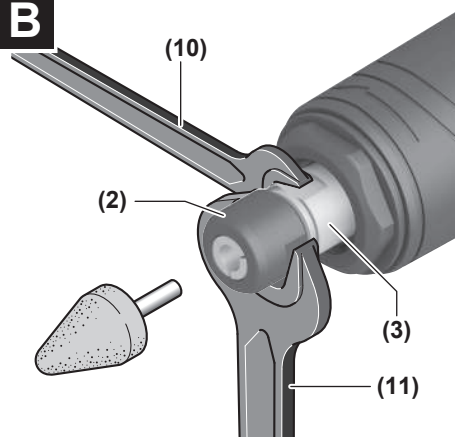


1 609 92A F7V



en Original instructions



**A****B**

English

Safety Instructions

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 or 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 per-**

formed. Use of the power tool for operations different from those intended could result in a hazardous situation.

Battery tool use and care

- ▶ **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- ▶ **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- ▶ **When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
- ▶ **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.

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 information for straight grinders

Safety Warnings common for Grinding or Sanding

- ▶ **This power tool is intended to function as a grinder or sander. 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 wire brushing, polishing or cutting-off 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.
- ▶ **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.** Contact with a "live" wire will also make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- ▶ **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.

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 of 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.

- ▶ **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 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 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.
- ▶ **Wheels must be used only for recommended applications. For example: do not grind with the side of 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.** Wheel intended for larger power tool is not suitable for the higher speed of a smaller tool and may burst.

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.

Additional safety information



Wear safety goggles.

- ▶ **Use suitable detectors to determine if there are hidden supply lines or contact the local utility company for assistance.** Contact with electric cables can cause fire and electric shock. Damaging gas lines can lead to explosion. Breaking water pipes causes property damage.
- ▶ **Release the On/Off switch and set it to the Off position when the power supply is interrupted, e.g. when the battery pack is removed.** This prevents uncontrolled restarting.
- ▶ **In case of damage and improper use of the battery, vapours may be emitted. The battery can set alight or explode.** Ensure the area is well ventilated and seek medical attention should you experience any adverse effects. The vapours may irritate the respiratory system.
- ▶ **Do not modify or open the battery.** There is a risk of short-circuiting.
- ▶ **The battery can be damaged by pointed objects such as nails or screwdrivers or by force applied externally.** An internal short circuit may occur, causing the battery to burn, smoke, explode or overheat.
- ▶ **Only use the battery in the manufacturer's products.** This is the only way in which you can protect the battery against dangerous overload.
- ▶ **Do not touch grinding discs until 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.



Protect the rechargeable battery against heat, e.g. including prolonged sun exposure, fire, water, and moisture. There is a risk of explosion and short circuit.

Product Description and Specifications



Read all the safety and general instructions.

Failure to observe the safety and general instructions may result in electric shock, fire and/or serious injury.

Please observe the illustrations at the beginning of this operating manual.

Intended Use

The power tool is intended for grinding and deburring metal with corundum grinding tools and for working with sanding belt tools as well as for sanding with sanding paper.

Product Features

The numbering of the product features refers to the diagram of the power tool on the graphics page.

- (1) Collet
- (2) Clamping nut
- (3) Grinding spindle
- (4) Spindle collar (insulated gripping surface)

- (5) On/off switch (GGS18V-28LS)
- (6) Battery release button^{a)}
- (7) Rechargeable battery^{a)}
- (8) Speed preselection thumbwheel
- (9) Handle (insulated gripping surface)
- (10) Open-ended spanner on the grinding spindle^{a)}
- (11) Open-ended spanner on the clamping nut
- (12) Overhang shaft dimension L_0
- (13) Unlocking lever for on/off switch (GGS18V-28LPS)
- (14) Spindle lock
- (15) On/off switch (GGS18V-28LPS)

a) **This accessory is not part of the standard scope of delivery.**

Technical Data

Straight grinder		GGS18V-28LS	GGS18V-28LPS
Article number		3 601 J2 0..	3 601 J2 1..
Rated voltage	V=	18	18
Rated speed ^{a)}	min ⁻¹	28000	28000
Speed adjustment range	min ⁻¹	8000–28000	8000–28000
Max. collet diameter	mm	8	8
Spanner flat on the			
– Clamping nut	mm	17	17
– Grinding spindle	mm	15	15
Spindle collar diameter	mm	43	43
Max. grinding tool diameter	mm	50	50
Maximum protrusion of the shaft L_0	mm	10	10
Maximum internal length of the shaft	mm	35	35
Constant electronic control		●	●
Speed preselection		●	●
Kickback stop		●	●
Restart protection		●	●
Soft start		●	●
Run-out brake		●	●
Drop control		●	●
Weight ^{b)}	kg	1.4	1.5
Recommended ambient temperature during charging	°C	0 to +35	0 to +35
Permitted ambient temperature during operation ^{c)} and during storage	°C	–20 to +50	–20 to +50
Compatible rechargeable batteries		GBA18V... GBA 18V... ProCORE18V... EXPERT18V... EXBA18V... CORE18V...	GBA18V... GBA 18V... ProCORE18V... EXPERT18V... EXBA18V... CORE18V...
Recommended battery chargers		GAL18... GAL 18... GAL 36... GAL12V/18...	GAL18... GAL 18... GAL 36... GAL12V/18...

Straight grinder

GG518V-28LS

GG518V-28LPS

GAL 12V/18...
GAX 18...
EXAL18...

GAL 12V/18...
GAX 18...
EXAL18...

- A) Measured at 20–25 °C with rechargeable battery **GBA 18V 5.0Ah**
B) Without rechargeable battery (you can find the battery weight at www.bosch-professional.com)
C) Limited performance at temperatures < 0 °C

Values can vary depending on the product, scope of application and environmental conditions. To find out more, visit www.bosch-professional.com/wac.

Rechargeable battery

Bosch sells some cordless power tools without a rechargeable battery. You can tell whether a rechargeable battery is included with the power tool by looking at the packaging.

Charging the battery

► **Use only the chargers listed in the technical data.** Only these chargers are matched to the lithium-ion battery of your power tool.

Note: Lithium-ion rechargeable batteries are supplied partially charged according to international transport regulations. To ensure full rechargeable battery capacity, fully charge the rechargeable battery before using your tool for the first time.

Inserting the Battery

Push the charged battery into the battery holder until it clicks into place.

Removing the Battery

To remove the rechargeable battery, press the battery release button and pull the battery out. **Do not use force to do this.**

The rechargeable battery has two locking levels to prevent the battery from falling out if the battery release button is pressed unintentionally. The rechargeable battery is held in place by a spring when fitted in the power tool.

Battery charge indicator

Note: Not all battery types have a battery charge indicator. The green LEDs on the battery charge indicator indicate the state of charge of the battery. For safety reasons, it is only possible to check the state of charge when the power tool is not in operation.

Press the button for the battery charge indicator  or  to show the state of charge. This is also possible when the battery is removed.

If no LED lights up after pressing the button for the battery charge indicator, then the battery is defective and must be replaced.

Rechargeable battery type GBA 18V... | GBA18V...



LED	Capacity
3 × continuous green light	60–100 %
2 × continuous green light	30–60 %
1 × continuous green light	5–30 %
1 × flashing green light	0–5 %

Battery model ProCORE18V... | EXPERT18V... | EXBA18V... | CORE18V...



LED	Capacity
5 × continuous green light	80–100 %
4 × continuous green light	60–80 %
3 × continuous green light	40–60 %
2 × continuous green light	20–40 %
1 × continuous green light	5–20 %
1 × flashing green light	0–5 %

Battery defect risk detection

EXPERT18V... | EXBA18V...

In addition to the state of charge of the rechargeable battery, the LEDs on the battery charge indicator can also indicate the risk of a battery defect.

To activate the function, press and hold the button for the battery charge indicator  for 3 seconds. The analysis of the battery is signalled by a moving light on the battery charge indicator. The result of is shown on the battery charge indicator.

 **1 LED:** The rechargeable battery has a high defect risk. Performance and runtime may already be reduced. Replacing the rechargeable battery is recommended.

 **5 LEDs:** The rechargeable battery is in good condition and has a low defect risk.

Please note: The rechargeable battery defect risk assessment works in a binary manner and offers a simplified status assessment, indicating either that the rechargeable battery is in good condition or that the rechargeable battery has an

increased defect risk. A percentage of the battery status is not shown.

Recommendations for Optimal Handling of the Battery

Protect the battery against moisture and water.

Only store the battery within a temperature range of -20 to 50 °C. Do not leave the battery in your car in the summer, for example.

Occasionally clean the ventilation slots on the battery using a soft brush that is clean and dry.

A significantly reduced operating time after charging indicates that the battery has deteriorated and must be replaced. Follow the instructions on correct disposal.

Fitting

► **Before carrying out any work on the power tool (e.g. maintenance, tool change etc.), remove the battery from the power tool.** There is risk of injury from unintentionally pressing the on/off switch.

Fitting Abrasive Tools Using an Open-Ended Spanner and Spindle Lock (see figure A)

► **Before carrying out any work on the power tool (e.g. maintenance, tool change etc.), remove the battery from the power tool.** There is risk of injury from unintentionally pressing the on/off switch.

► **Only use open-ended spanners that are suitable and undamaged (see "Technical Data").**

- Clean the grinding spindle (3) and all the parts to be fitted.
- Press the spindle lock (14) and turn the clamping nut (2) by hand until locked.
- Press and hold the spindle lock and loosen the clamping nut (2) with the open-ended spanner (11) by turning it anticlockwise.
- Insert the straight shank of the grinding tool all the way into the collet (1).
- Press the spindle lock (14) and tighten the application tool by placing the open-ended spanner (11) on the spanner flat and turning it clockwise.

The grinding tools must run completely concentrically. Do not continue to use damaged grinding tools that are out of balance. If the grinding tools are out of balance, they should be replaced.

- **Do not, under any circumstances, tighten the collet with the clamping nut until a grinding tool has been fitted.** The collet may otherwise become damaged.
- **Only use mounted points with an appropriate shank diameter.** A mounting point with a shank diameter which does not correspond to the tool holder of the power tool (see "Technical data") cannot be held properly and will damage the collet chuck.
- **The application tool must be clamped to at least 50% of the maximum mandrel length.** The overhang shaft di-

mension L_0 can be used to calculate the maximum permitted speed of the application tool from the specifications provided by the manufacturer of the application tool. It must not be less than the maximum speed of the power tool.

Fitting Abrasive Tools Using Two Open-Ended Spanners (see figure B)

- **Before carrying out any work on the power tool (e.g. maintenance, tool change etc.), remove the battery from the power tool.** There is risk of injury from unintentionally pressing the on/off switch.
- **Only use open-ended spanners that are suitable and undamaged (see "Technical Data").**
 - Clean the grinding spindle (3) and all the parts to be fitted.
 - Use an open-ended spanner (10) on the spanner flat of the grinder spindle (3) to hold it in place. Loosen the clamping nut (2) by placing an open-ended spanner (11) on the spanner flat and turning it counter-clockwise.
 - Insert the straight shank of the grinding tool all the way into the collet (1).
 - Hold the grinding spindle (3) with the open-ended spanner (10) and tighten the application tool by placing the open-ended spanner (11) on the spanner flat and turning it clockwise.

The grinding tools must run completely concentrically. Do not continue to use damaged grinding tools that are out of balance. If the grinding tools are out of balance, they should be replaced.

- **Do not, under any circumstances, tighten the collet with the clamping nut until a grinding tool has been fitted.** The collet may otherwise become damaged.
- **Only use mounted points with an appropriate shank diameter.** A mounting point with a shank diameter which does not correspond to the tool holder of the power tool (see "Technical data") cannot be held properly and will damage the collet chuck.
- **The application tool must be clamped to at least 50% of the maximum mandrel length.** The overhang shaft dimension L_0 can be used to calculate the maximum permitted speed of the application tool from the specifications provided by the manufacturer of the application tool. It must not be less than the maximum speed of the power tool.

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 ad-

divides (chromate, wood preservative). Materials containing asbestos may only be worked by specialists.

- 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.

- **Avoid dust accumulation at the workplace.** Dust can easily ignite.

Operation

Starting operation

- **Check whether there is visible damage to the collet (1) and clamping nut (2) before each use.**

Switching On and Off

GG518V-28LS

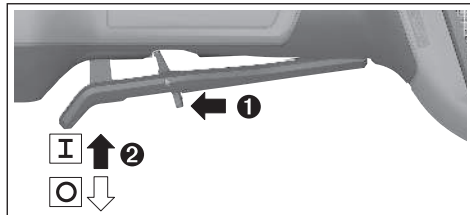
To **start** the power tool, slide the on/off switch (5) forwards.

To **lock** the on/off switch (5) in position, push the on/off switch (5) forwards and down until it clicks into place.

To **switch off** the power tool, release the on/off switch (5); or, if the switch is locked, briefly push the on/off switch (5) backwards and down and then release it.

Switching On and Off

GG518V-28LPS



To **start** the power tool, push the unlocking lever (13) forwards and then push the on/off switch (15) up.

To **switch off** the power tool, release the on/off switch (15).

Constant Electronic control

The Constant Electronic keeps the speed at no load and under load virtually consistent, guaranteeing uniform performance.

Speed preselection

You can preselect the required speed using the speed preselection thumbwheel (8), even during operation.

The required speed depends on the material being worked and the diameter of the application tool. Observe the maximal allowable speed of the application tool.

Thumbwheel position	No-load speed (min ⁻¹)
1	8000
2	12000
3	16000
4	20000

Thumbwheel position	No-load speed (min ⁻¹)
5	23000
6	28000

Kickback Control



If there is a sudden kickback in the power tool, e.g. jamming when carving, the power supply to the motor will be interrupted electronically. To **restart** the tool, set the on/off switch (5)/(15) to the "off" position and then switch the power tool on again.

Restart Protection

The restart protection feature prevents the power tool from uncontrolled starting after the power supply to it has been interrupted.

To **restart** the tool, set the on/off switch (5)/(15) to the "off" position and then switch the power tool on again.

Note: Rapidly switching the power tool off and on again may trigger the restart protection, meaning the power tool may not start up even if the on/off switch (5)/(15) is pressed.

Set the on/off switch (5)/(15) to the off position and then switch the power tool on again.

Soft start

The electronic soft start limits the torque when the power tool is switched on and increases the service life of the motor.

Run-out brake



The power tool is fitted with the Bosch Brake System, a patented electromechanical run-out brake. When the tool is switched off or the power supply is interrupted, the abrasive tool is brought to a complete stop within a few

seconds. This means that the run-out time is 70% shorter than for angle grinders without a run-out brake and enables the power tool to be set down sooner.

Note: If the braking effect deteriorates noticeably, the run-out brake has failed. The power tool must be sent to the after-sales service immediately; see the "After-Sales Service and Application Service" section for addresses.

Drop Control

The integrated Drop Control switches the power tool off as soon as it hits the floor. To **restart** the tool, set the on/off switch (5)/(15) to the "off" position and then switch the power tool on again.

Practical advice

- **Protect the grinding tools against impact.**
- **Do not load the power tool so heavily that it comes to a stop.**
- **If the power tool has been subjected to a heavy load, continue to run it at no-load for several minutes to cool down the accessory.**
- **Grinding tools can become very hot while working. Do not touch them until they have cooled down.**

Move the grinding tool evenly back and forth with light pressure to achieve an optimum work result. Pressure that is too strong reduces the performance capability of the power tool and causes the grinding tool to wear more quickly.

Maintenance and Service

Maintenance and Cleaning

- **Before carrying out any work on the power tool (e.g. maintenance, tool change etc.), remove the battery from the power tool.** There is risk of injury from unintentionally pressing the on/off switch.
- **To ensure safe and efficient operation, always keep the power tool and the ventilation slots clean.**

After-Sales Service and Application Service

Malaysia

Tel.: (03) 79663194

You can find the link to our service addresses and warranty conditions on the last page.

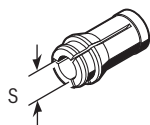
In all correspondence and spare parts orders, please always include the 10-digit article number given on the nameplate of the product.

Disposal

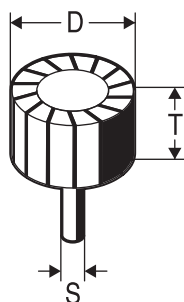
Power tools, rechargeable batteries, accessories and packaging should be sorted for environmental-friendly recycling.



Do not dispose of power tools and batteries/rechargeable batteries into household waste!



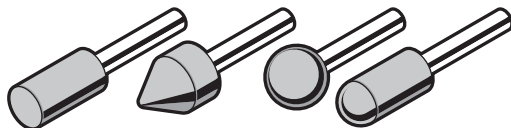
S	
3 mm	2 608 570 136
1/8"	2 608 570 139
6 mm	2 608 570 137
1/4"	2 608 570 140
8 mm	2 608 570 138

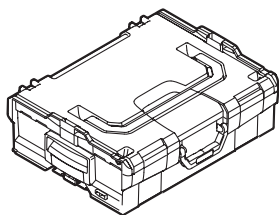


S	D	T	min ⁻¹	
6 mm	15 mm	30 mm	36 000	2 608 620 034

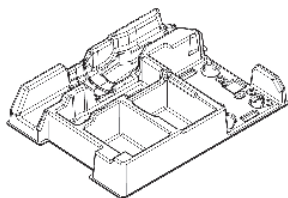


best for **Metal**





L-BOXX 136
1 605 438 1EM



6 082 850 7SL

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