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Professional HEAVY DUTY

GCD 18V-355

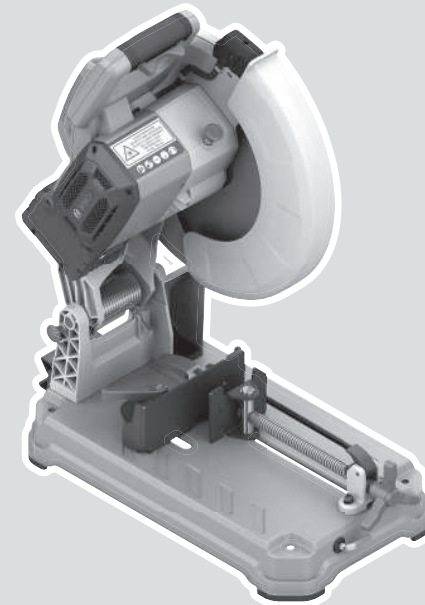
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GERMANY

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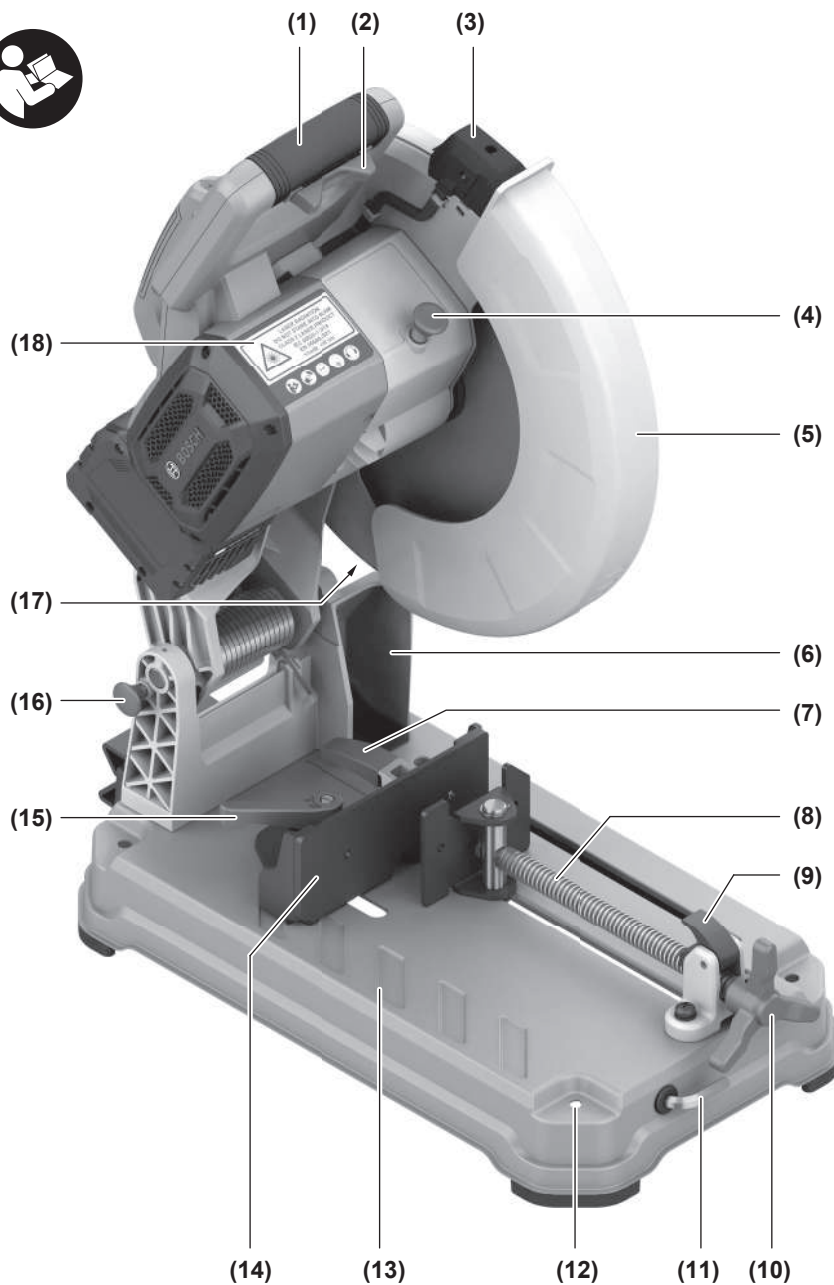
English Page 10

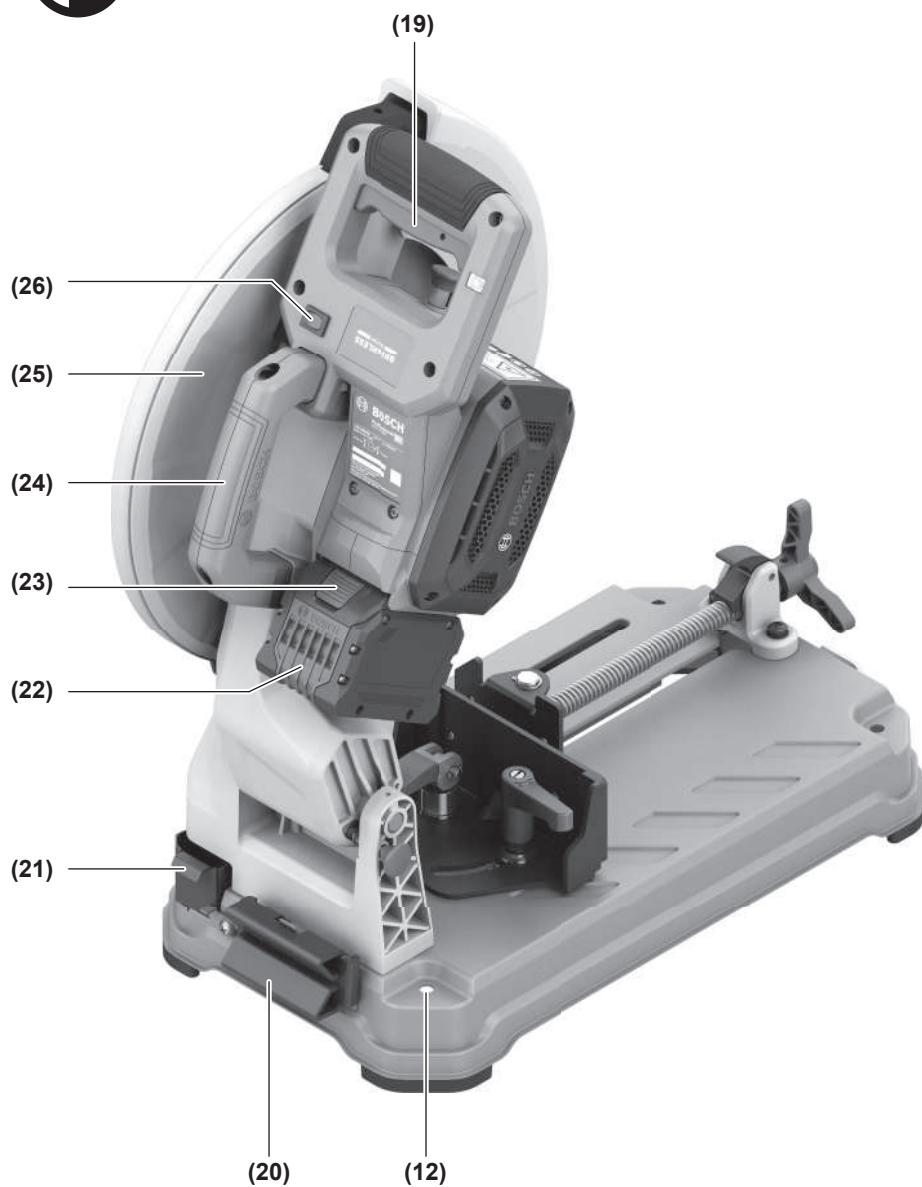


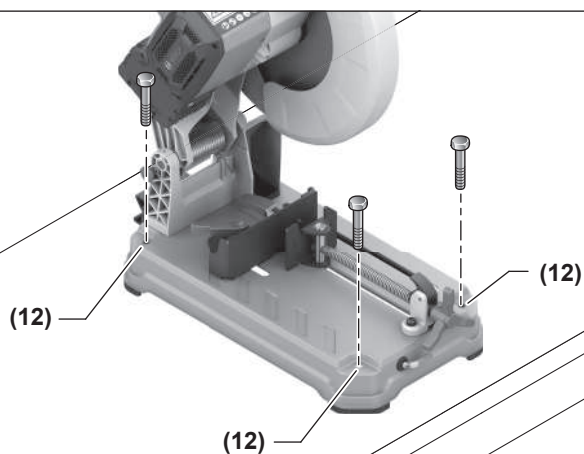
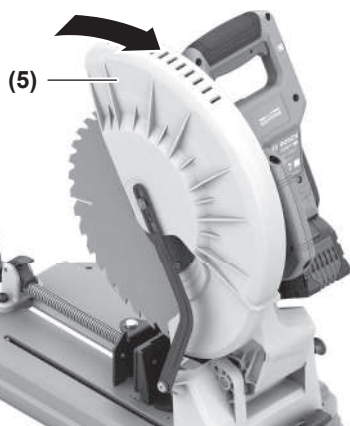
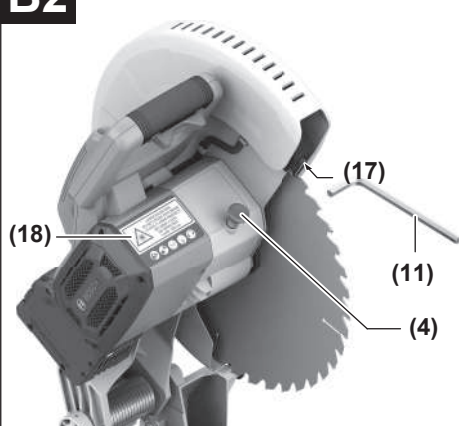
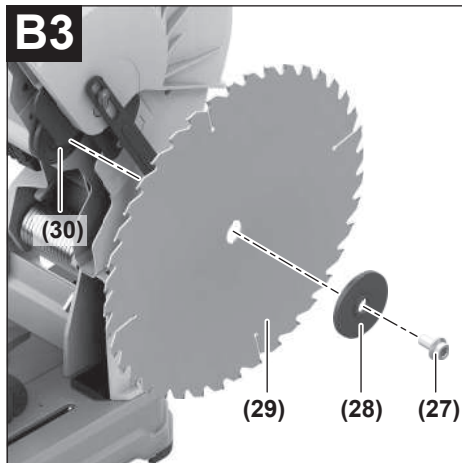
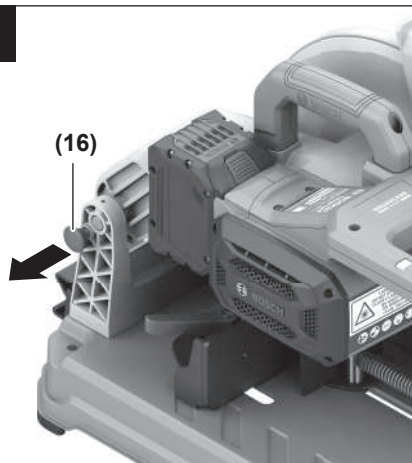
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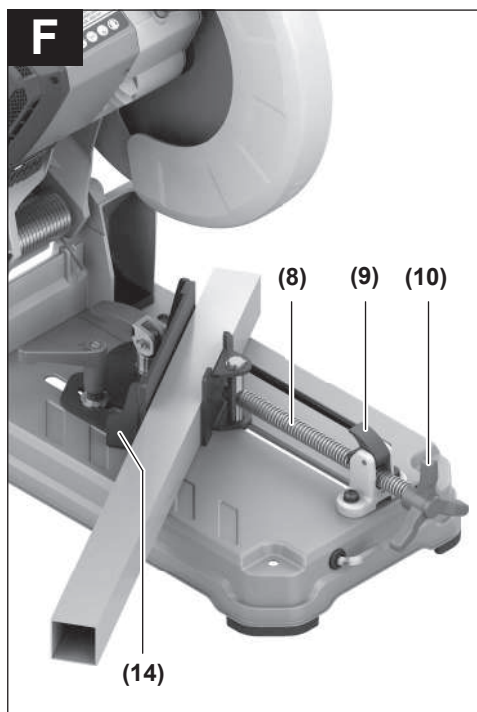
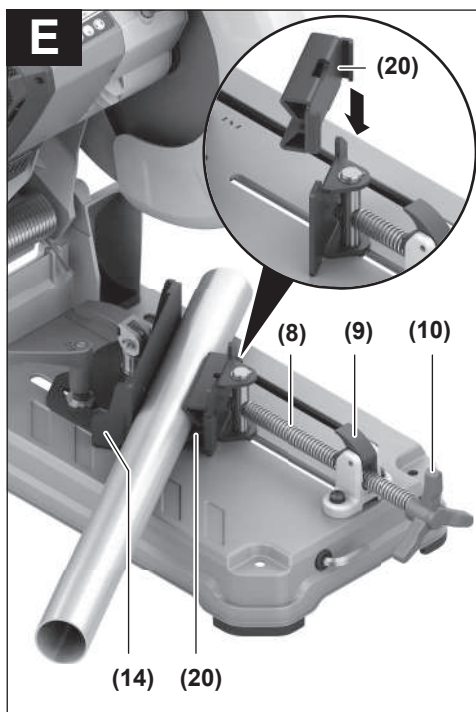
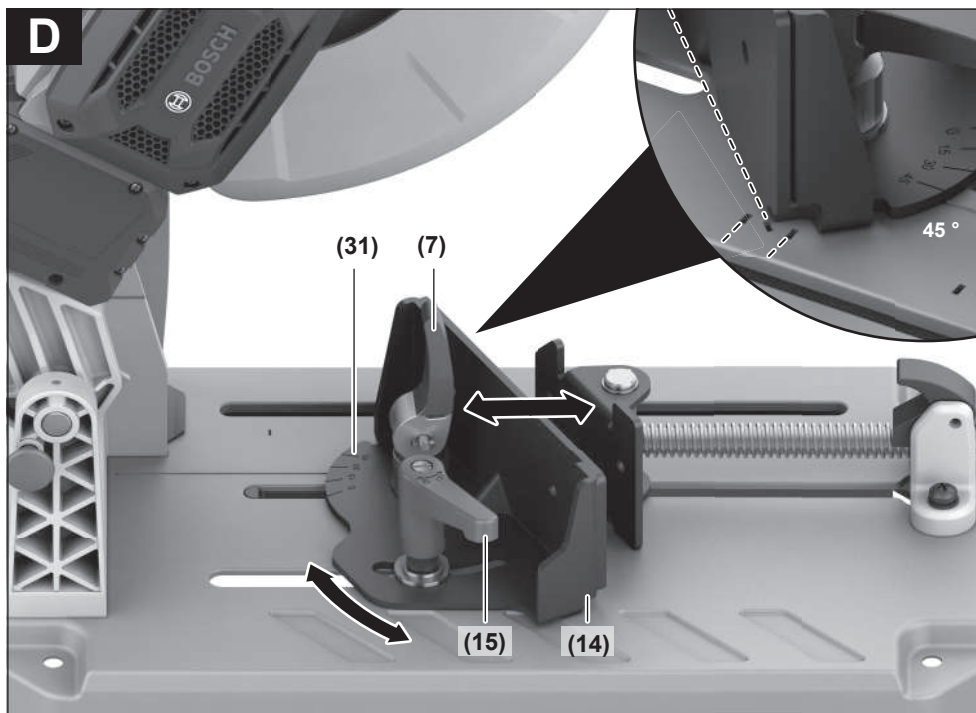


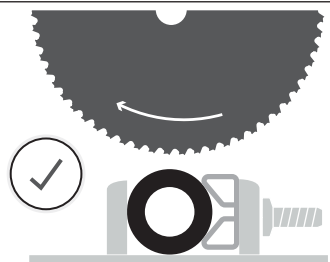
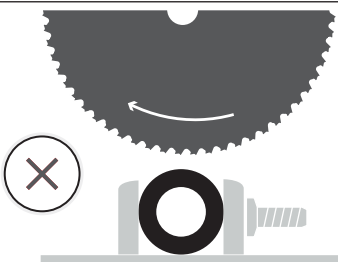
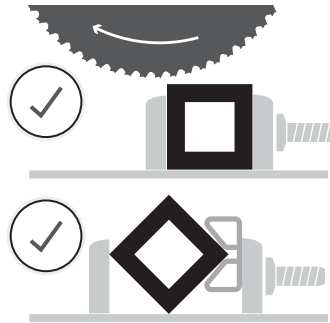
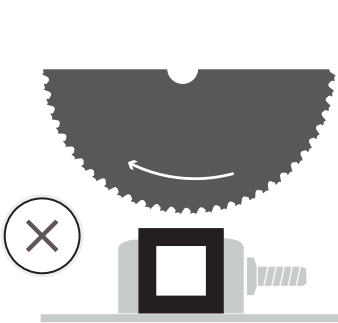
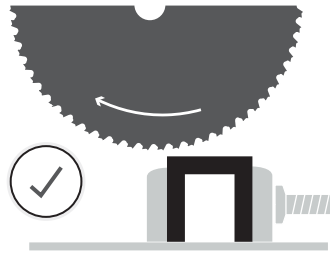
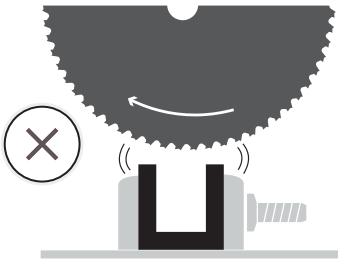
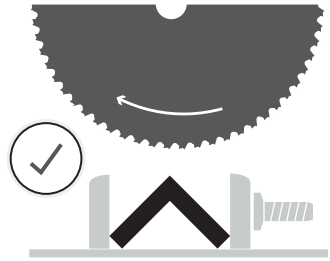
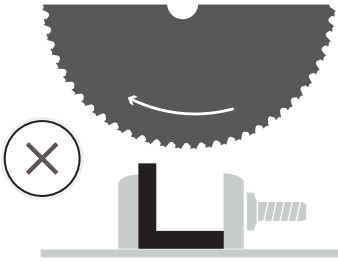
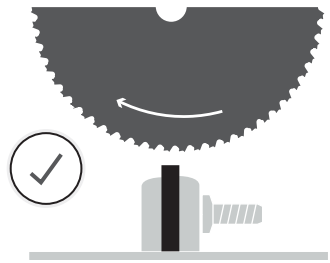
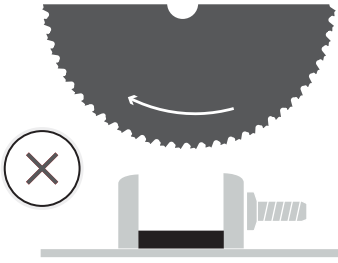
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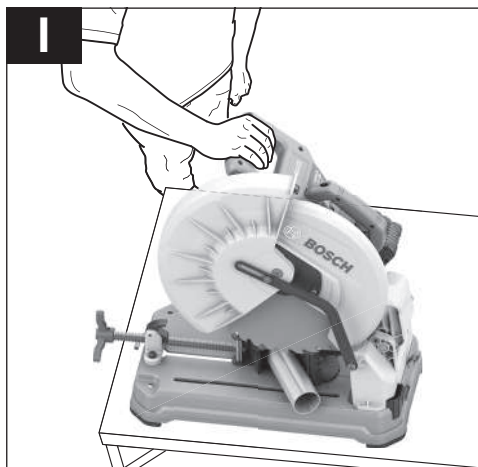
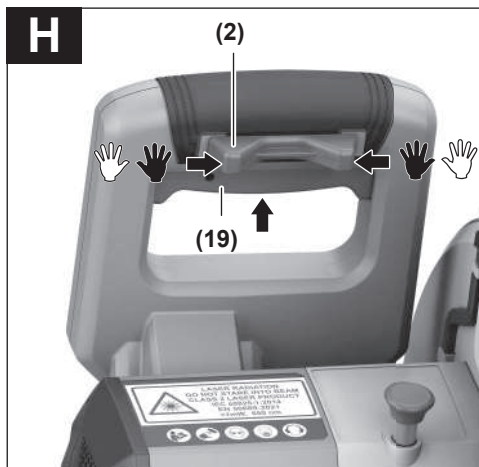


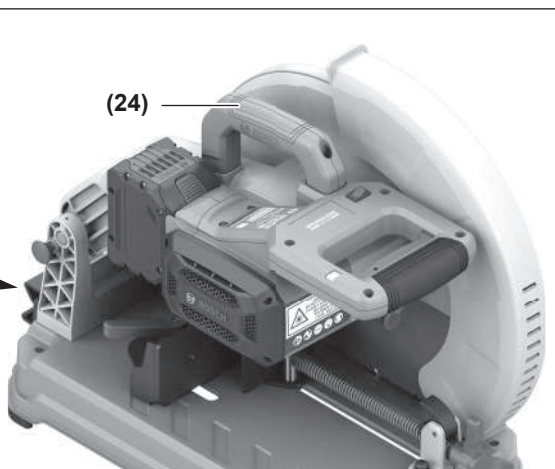
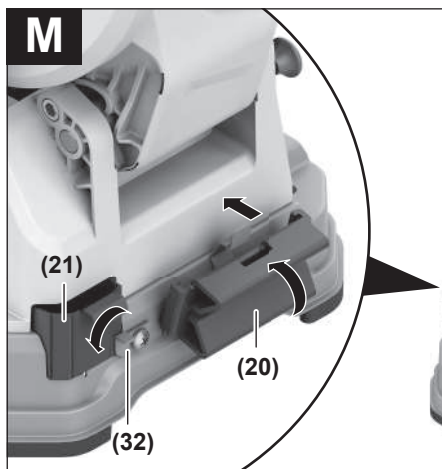
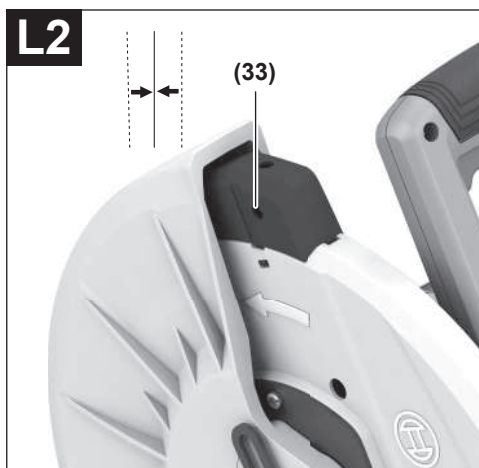
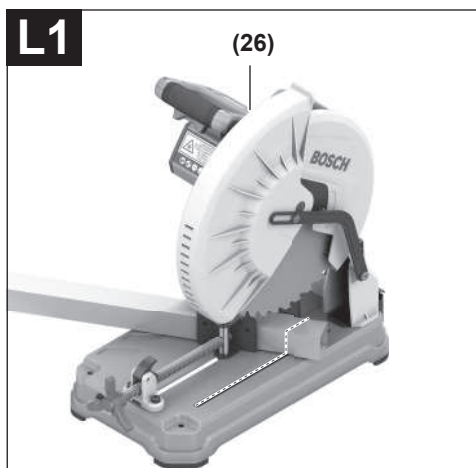
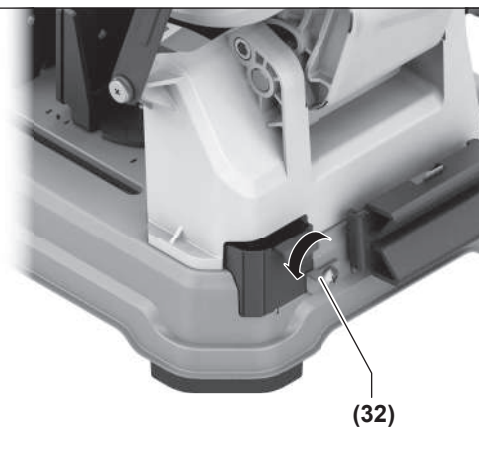
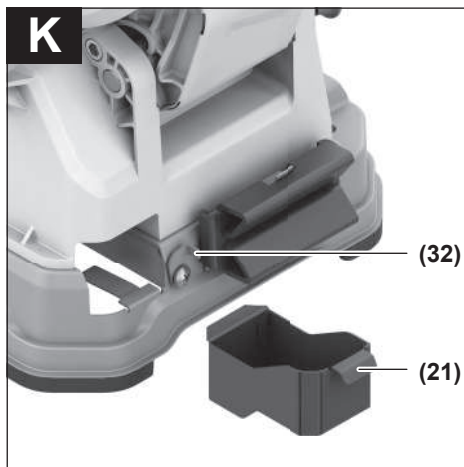


A**B1****B2****B3****C**



G





English

Safety instructions

General Power Tool Safety Warnings

⚠ WARNING 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.

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

- ▶ **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase 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 a 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 and clothing 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.
- ▶ **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.

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 remove the battery pack, if detachable, 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 and accessories. 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.
- ▶ **Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

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.
- ▶ **Do not use a battery pack or tool that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
- ▶ **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130 °C may cause explosion.
- ▶ **Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.** Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

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.
- ▶ **Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorized service providers.

Safety Instructions for Metal Cutting Saws

- ▶ **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.
- ▶ **Always use undamaged saw blade flanges that are of correct diameter for your selected saw blade.** Proper saw blade flanges support the saw blade thus reducing the possibility of saw blade breakage.
- ▶ **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.
- ▶ **The arbour size of saw blades and flanges must properly fit the spindle of the power tool.** Saw blades and flanges with arbour holes 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 damaged saw blades. Before each use, inspect the saw blades for chips and cracks. If the power tool or saw blade is dropped, inspect for damage or install an undamaged saw blade. After inspect-**

ing and installing the saw blade, position yourself and bystanders away from the plane of the rotating saw blade and run the power tool at maximum no load speed for one minute. Damaged saw blades 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 shop 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 saw blade may fly away and cause injury beyond immediate area of operation.
- ▶ **Regularly clean the power tool's air vents.** The motor's fan can 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. Do not operate the power tool while placed on a combustible surface such as wood.** 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 saw blade. Pinching or snagging causes rapid stalling of the rotating saw blade which in turn causes the uncontrolled **cutting unit** to be forced upwards toward the operator.

For example, if a saw blade is snagged or pinched by the workpiece, the edge of the saw blade that is entering into the pinch point can dig into the surface of the material causing the saw blade to climb out or kick out. Saw blades 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.** The operator can control upward kickback forces, if proper precautions are taken.
- ▶ **Do not position your body in line with the rotating saw blade.** If kickback occurs, it will propel the cutting unit upwards toward the operator.
- ▶ **Do not attach a saw chain, woodcarving blade or segmented diamond wheel with a peripheral gap greater than 10 mm.** Such blades create frequent kickback and loss of control.

- ▶ **Do not “jam” the saw blade or apply excessive pressure. Do not attempt to make an excessive depth of cut.** Overstressing the saw blade increases the loading and susceptibility to twisting or binding of the saw blade in the cut and the possibility of kickback or saw blade breakage.
- ▶ **When the saw blade is binding or when interrupting a cut for any reason, switch off the power tool and hold the cutting unit motionless until the saw blade comes to a complete stop. Never attempt to remove the saw blade from the cut while the saw blade is in motion otherwise kickback may occur.** Investigate and take corrective action to eliminate the cause of saw blade binding.
- ▶ **Do not restart the cutting operation in the workpiece. Let the saw blade reach full speed and carefully re-enter the cut.** The saw blade may bind, walk up or kickback if the power tool is restarted in the workpiece.
- ▶ **Support any oversized workpiece to minimize the risk of saw blade 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 saw blade.
- ▶ **Use clamps to support the workpiece whenever possible. If supporting the workpiece by hand, you must always keep your hand at least 100 mm from either side of the saw blade. Do not use this saw to cut pieces that are too small to be securely clamped or held by hand.** If your hand is placed too close to the saw blade, there is an increased risk of injury from blade contact.
- ▶ **The workpiece must be stationary and clamped or held against both the fence and the table. Do not feed the workpiece into the blade or cut “freehand” in any way.** Unrestrained or moving workpieces could be thrown at high speeds, causing injury.
- ▶ **Push the saw through the workpiece. Do not pull the saw through the workpiece. To make a cut, raise the saw head and pull it out over the workpiece without cutting, start the motor, press the saw head down and push the saw through the workpiece.** Cutting on the pull stroke is likely to cause the saw blade to climb on top of the workpiece and violently throw the blade assembly towards the operator.
- ▶ **Never cross your hand over the intended line of cutting either in front or behind the saw blade.** Supporting the workpiece “cross handed” i.e. holding the workpiece to the right of the saw blade with your left hand or vice versa is very dangerous.
- ▶ **Do not reach behind the fence when the saw blade is rotating. Never fail to maintain a safe distance of 100 mm between hand and rotating saw blade (applies to both sides of the saw blade).** It might not be possible to tell how close the rotating saw blade is to your hand, and you may be severely injured.
- ▶ **Inspect your workpiece before cutting. If the workpiece is bowed or warped, clamp it with the outside bowed face toward the fence. Always make certain that there is no gap between the workpiece, fence and table along the line of the cut.** Bent or warped workpieces can twist or shift and may cause binding on the spinning saw blade while cutting. There should be no nails or foreign objects in the workpiece.
- ▶ **Do not use the power tool until the table is free of tools; the workpiece must be the only thing on the table.** Small pieces of scrap or other objects that come into contact with the rotating blade can be hurled away at high speed.
- ▶ **Cut only one workpiece at a time.** Stacked multiple workpieces cannot be adequately clamped or braced and may bind on the blade or shift during cutting.
- ▶ **Ensure the power tool is mounted or placed on a level, firm work surface before use.** A level and firm work surface reduces the risk of the power tool becoming unstable.
- ▶ **Plan your work. Every time you change the bevel or mitre angle setting, make sure the adjustable fence is set correctly to support the workpiece and will not interfere with the blade or the guarding system.** Without turning the tool “ON” and with no workpiece on the table, move the saw blade through a complete simulated cut to assure there will be no interference or danger of cutting the fence.
- ▶ **Provide adequate support such as table extensions, saw horses, etc. for a workpiece that is wider or longer than the table top.** Workpieces longer or wider than the power tool table can tip if not securely supported. If the cut-off piece or workpiece tips, it can lift the lower guard or be thrown by the spinning blade.
- ▶ **Do not use another person as a substitute for a table extension or as additional support.** Unstable support for the workpiece can cause the blade to bind or the workpiece to shift during the cutting operation pulling you and the helper into the spinning blade.
- ▶ **The cut-off piece must not be jammed or pressed by any means against the spinning saw blade.** If confined, i.e. using length stops, the cut-off piece could get wedged against the blade and thrown violently.
- ▶ **Always use a clamp or a fixture designed to properly support round material such as rods or tubing.** Rods have a tendency to roll while being cut, causing the blade to “bite” and pull the work with your hand into the blade.
- ▶ **Let the blade reach full speed before contacting the workpiece.** This will reduce the risk of the workpiece being thrown.
- ▶ **If the workpiece or blade becomes jammed, turn the power tool off. Wait for all moving parts to stop and disconnect the plug from the power source and/or remove the battery pack. Then work to free the jammed material.** Continued cutting with a jammed workpiece could cause loss of control or damage to the power tool.
- ▶ **After finishing the cut, release the switch, hold the saw head down and wait for the blade to stop before removing the cut-off piece.** Reaching with your hand near the coasting blade is dangerous.

- ▶ **Hold the handle firmly when making an incomplete cut or when releasing the switch before the saw head is completely in the down position.** The braking action of the saw may cause the saw head to be suddenly pulled downward, causing a risk of injury.
- ▶ **Never remove cuttings etc. from the cutting area while the power tool is running.** Always guide the tool arm back to the neutral position first and then switch the power tool off.
- ▶ **Do not touch the saw blade after working before it has cooled.** The saw blade becomes very hot while working.
- ▶ **Keep your work area clean.** Material mixtures are particularly hazardous. Light metal dust may catch fire or explode.
- ▶ **Do not use saw blades made from high speed steel (HSS).** Such saw blades can easily break.
- ▶ **Do not use dull, cracked, bent or damaged saw blades.** Unsharpened or improperly set saw blades produce narrow kerf causing excessive friction, blade binding and kickback.
- ▶ **Always use blades with correct size and shape (diamond versus round) of arbour holes.** Blades that do not match the mounting hardware of the saw will run off-centre, causing loss of control.
- ▶ **Make sure that the guard works properly and that it can move freely.** Never lock the guard in place when opened.
- ▶ **Keep the floor free of metal swarf and material remnants.** You could slip or trip.
- ▶ **Operate the power tool only when the work area up to the workpiece is clear of any adjusting tools, metal swarf, etc.** Small pieces of metal or other objects that come into contact with the rotating saw blade can strike the operator with high speed.
- ▶ **Never leave the tool unattended before it has come to a complete stop.** Cutting tools that are still running can cause injuries.
- ▶ **Guide the saw blade against the workpiece only when the saw is switched on.** Otherwise there is a risk of kickback occurring if the saw blade catches in the workpiece.
- ▶ **Never stand on the power tool.** Serious injuries may occur if the power tool tips over or if you inadvertently come into contact with the saw blade.
- ▶ **Only use the power tool for dry cutting.** Water entering a power tool increases the risk of electric shock.
- ▶ **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.



Protect the battery against heat, e.g. against continuous intense sunlight, fire, dirt, water and moisture. There is a risk of explosion and short-circuiting.



- ▶ **The power tool is delivered with a laser warning sign (see table: "Symbols and their meaning").**
- ▶ **If the text of the laser warning label is not in your national language, stick the provided warning label in your national language over it before operating for the first time.**
- ▶ **Never make warning signs on the machine unrecognisable.**



Do not direct the laser beam at persons or animals and do not stare into the direct or reflected laser beam yourself. You could blind somebody, cause accidents or damage your eyes.

- ▶ **If laser radiation hits your eye, you must close your eyes and immediately turn your head away from the beam.**
- ▶ **Do not make any modifications to the laser equipment.** The setting options described in these operating instructions can be used safely.
- ▶ **Do not let children use the power tool unsupervised.** They could unintentionally blind themselves or other persons.

Symbols

The following symbols may be important for the operation of your power tool. Please take note of these symbols and their meaning. Correctly interpreting the symbols will help you to operate the power tool more effectively and safely.

Symbols and their meaning



Laser radiation
Do not look directly into the beam
Class 2
consumer laser product



Keep hands away from the cutting area while the power tool is running. Contact with the saw blade can lead to injuries.



Wear hearing protection. Exposure to noise can cause hearing loss.

Symbols and their meaning



Wear safety goggles.



Wear a dust mask.



Take note of the dimensions of the saw blade (saw blade diameter **D**, hole diameter **d**). The hole diameter **d** must match the tool spindle without play. If it is necessary to use reducers, ensure that the dimensions of the reducer are suitable for the base blade thickness and the saw blade hole diameter, as well as the tool spindle diameter. Wherever possible, use the reducers provided with the saw blade.

The saw blade diameter **D** must match the information specified on the symbol.

See also: "Dimensions of suitable saw blades" in the "Technical Data" section.



To fix the angle guide, turn the clamping handle clockwise as far as it will go **and reposition it** multiple times.

To loosen the angle guide, turn the clamping handle anticlockwise as far as it will go **and reposition it** multiple times.

- (2) Lock-off button
- (3) Laser protection cap
- (4) Spindle lock
- (5) Retracting blade guard
- (6) Chip extractor
- (7) Clamping lever for fixing the angle guide
- (8) Locking spindle
- (9) Quick release
- (10) Spindle handle
- (11) Hex key
- (12) Mounting holes
- (13) Saw table
- (14) Angle guide
- (15) Clamping handle for setting the mitre angle
- (16) Transport safety lock
- (17) Laser beam output
- (18) Laser warning label
- (19) On/off switch
- (20) Tubular jaw
- (21) Chip drawer
- (22) Rechargeable battery^{a)}
- (23) Battery release button^{a)}
- (24) Transport handle
- (25) Protective cover
- (26) On/off switch for laser (cutting line indication)
- (27) Hex socket screw for mounting the saw blade
- (28) Clamping flange
- (29) Saw blade
- (30) Inner clamping flange
- (31) Scale for mitre angles
- (32) Transport safety lock for chip drawer
- (33) Set screw for laser positioning (parallelism)

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

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 a stationary machine that uses saw blades to cut metal materials with and against the grain, in straight lines and at mitre angles of up to 45°, without the use of water.

This product is a consumer laser product in accordance with EN 50689.

Product features

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

- (1) Handle

Technical Data

Cordless metal cut-off saw		GCD 18V-355
Article number		3 601 M59 0..
Rated voltage	V $\overline{~}$	18
No-load speed	min ⁻¹	1300
Laser type	nm	650
	mW	< 1
Laser class		2
Weight ^{A)}	kg	19.8
Recommended ambient temperature during charging	°C	0 to +35

Cordless metal cut-off saw		GCD 18V-355
Permitted ambient temperature during operation ^{B)} and during storage	°C	-20 to +50
Recommended rechargeable batteries		GBA 18V... ProCORE18V...
Compatible rechargeable batteries		GBA18V... GBA 18V... ProCORE18V... EXPERT18V... EXBA18V... CORE18V...
Recommended battery chargers		GAL18... GAL 18... GAL 36... GAL12V/18... GAL 12V/18... GAX 18... EXAL18...

A) Without rechargeable battery (you can find the battery weight at www.bosch-professional.com)

B) 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.

Cordless metal cut-off saw		GCD 18V-355
Dimensions of suitable saw blades		
Max. saw blade diameter D	mm	355
Base blade thickness	mm	1.8–2.5
Hole diameter d	mm	25.4

Noise information

Noise emission values determined according to **EN IEC 62841-1**.

Typically the A-weighted noise level of the power tool is: Sound pressure level **91** dB(A); sound power level **100** dB(A). Uncertainty K = 3 dB.

Wear hearing protection

The noise emission value given in these instructions has been measured in accordance with a standardised measuring procedure and can be used to compare power tools. It can also be used for a preliminary estimation of noise emissions.

The noise emission value given represents the main applications of the power tool. However, if the power tool is used for other applications, with different application tools or is poorly maintained, the noise emission value can differ. This can significantly increase noise emissions over the total working period.

To estimate noise emissions accurately, the times when the tool is switched off, or when it is running but not actually being used, should also be taken into account. This can significantly reduce noise emissions over the total working period.

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.

Mounting

► **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.

Items included

- Carefully remove all parts included in the delivery from their packaging.
- Remove all packing material from the power tool and the accessories provided.

Check to ensure that all the parts listed below have been supplied before using the power tool for the first time:

- Cordless metal cut-off saw with fitted saw blade
- Hex key **(11)**
- Tubular jaw **(20)**

Note: Check the power tool for possible damage.

Before continuing to use the power tool, carefully check that all protective devices or slightly damaged parts are working perfectly and according to specifications. Check that the moving parts are working perfectly and without jamming; check whether any parts are damaged. All parts must be fitted correctly and all the conditions necessary to ensure smooth operation must be met.

If the protective devices or any parts become damaged, you must have them properly repaired or replaced by an authorised service centre.

Stationary or flexible mounting

► **To ensure safe handling, the power tool must be mounted on a flat, stable work surface (e.g. work bench) before use.**

Mounting on a work surface (see figure A)

- Use a suitable screwed connection to secure the power tool to the work surface. Use the holes **(12)** to do this.

Mounting on a Bosch saw stand

With the height-adjustable legs, Bosch GTA saw stands provide firm support for the power tool on any surface. The workpiece supports of the saw stand are used for underlaying long workpieces.

- **Read all the warnings and instructions included with the saw stand.** Failure to observe the warnings and follow instructions may result in electric shock, fire and/or serious injury.
- **Assemble the saw stand properly before mounting the power tool.** Correct assembly is important to prevent the risk of collapsing.
- Bring the power tool into the transport position.
- Fit the corresponding adapters to the saw table **(13)** from underneath.
Refer to the detailed installation instructions of the adapters.
- Screw the adapters with the holders of the workbench.

Flexible installation (not recommended)

If, in exceptional circumstances, it is not possible to securely mount the power tool on a work surface, you can improvise by placing the feet of the saw table **(13)** on an appropriate base (e.g. workbench, flat ground, etc.), without screwing down the power tool.

Changing the saw blade (see figures B1–B3)

► **Do not activate the spindle lock (4) while the tool spindle is moving.** The power tool may become damaged if you do this.

► **Wear protective gloves when fitting the saw blade.**

There is a risk of injury when touching the saw blade.

Only use saw blades that have a maximum permitted speed higher than the no-load speed of the power tool.

Only use saw blades that are recommended by the power tool manufacturer and are suitable for use on the material you want to saw. This will prevent the saw teeth overheating when sawing.

Removing the saw blade

- Bring the power tool into the work position.
- Swivel the retracting blade guard (5) to the back and hold it in this position.
- Turn the hex socket screw (27) using the hex key (11) provided while pressing the spindle lock (4) until it engages.
- Press and hold the spindle lock (4) and undo the screw (27) by turning it anticlockwise.
- Remove the clamping flange (28).
- Remove the saw blade (29).

Fitting the saw blade

If required, clean all the parts you want to fit before installing them.

- Place the new saw blade (29) on the inner clamping flange (30).
- **When fitting the saw blade, make sure that the cutting direction of the teeth (arrow direction on the saw blade) matches the direction of the arrow on the protective cover.**
- Place on the clamping flange (28) and the screw (27). Press the spindle lock (4) until it engages and tighten the screw by turning it clockwise.
- Loosen the spindle lock (4) again. If necessary, pull the knob upwards manually as far as it will go.
- Slowly guide the retracting blade guard (5) downwards until the saw blade is completely covered again.

Operation

Transport safety lock (see figure C)

The transport safety lock (16) makes it easier to handle the power tool when transporting it to various working locations.

Unlocking the power tool (work position)

- Press the tool arm down slightly by the handle (1) to release the transport safety lock (16).
- Pull the transport safety lock (16) all the way out.
- Slowly guide the tool arm upwards.

Note: Make sure that the transport safety lock is not pushed in when working, otherwise the tool arm will not be able to be swivelled to the required depth.

Locking the power tool (transport position)

- Guide the tool arm downwards until you can press the transport safety lock (16) all the way in.

Work preparation

Adjusting the Mitre Angle (see figure D)

The mitre angle can be set between 0° and 45°.

Important setting values can be read off the scale (31). The 0° and 45° positions are secured by the respective end stop.

- Loosen the clamping handle (15) 1x by turning it anticlockwise. Reposition the clamping handle (lift – turn clockwise – set down – loosen anticlockwise) until the angle guide (14) can be turned.
- Turn the angle guide (14) until the marking on the saw table (13) indicates the required mitre angle on the scale (31).
- Tighten the clamping handle (15) 1x by turning it clockwise. Reposition the clamping handle (lift – turn anticlockwise – set down – tighten clockwise) until the angle guide (14) can be secured again.

Moving the Angle Guide (see figure D)

You can move the angle guide (14) to set the optimal workpiece position for sawing.

- Loosen the clamping handle (15) 1x by turning it anticlockwise. Reposition the clamping handle (lift – turn clockwise – set down – loosen anticlockwise) until the angle guide (14) can be moved.
- Move the angle guide (14) into the required position relative to the saw blade (29).

Note: For cuts of 45°, you must position the angle guide

so that it is pointing towards the marking area .

- Tighten the clamping handle (15) 1x by turning it clockwise. Reposition the clamping handle (lift – turn anticlockwise – set down – tighten clockwise) until the angle guide (14) can be secured again.

Clamping the Workpiece

To ensure maximum safety while working, the workpiece must always be firmly clamped. Do not saw workpieces that are too small to clamp firmly.

The free end of long and heavy workpieces must have something placed underneath it or be supported.

Follow the clamping instructions in the figure G.

Round workpieces (see figure E)

- Remove the tubular jaw (20) from its holder on the rear side of the power tool.
The tubular jaw enlarges the clamping surface of round workpieces.
- Slide the tubular jaw (20) onto the plate of the locking spindle (8) as far as it will go.
- Place the workpiece against the angle guide (14).
- Slide the locking spindle (8) with the tubular jaw (20) against the workpiece and clamp the workpiece in place using the spindle handle (10).

Square Workpieces (see figure F)

- If necessary, slide the tubular jaw (20) onto the plate of the locking spindle (8).
See figure G (clamping note ◇).
- Place the workpiece against the angle guide (14).
- Slide the locking spindle (8) against the workpiece and clamp the workpiece in place using the spindle handle (10).

Releasing the workpiece

- Release the spindle handle (10).
- Open the quick release (9) and pull the locking spindle (8) away from the workpiece.

Starting operation**Switching on (see figure H)**

- To **start** the power tool, **first** push in the lock-off button (2). **Then** press the on/off switch (19) all the way in and keep it pressed.

Note: For safety reasons, the on/off switch (19) cannot be locked; it must remain pressed during the entire operation.

Soft start

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

Switching off

- To **switch off**, release the on/off switch (19).

Sawing**General sawing instructions**

Protect the saw blade against impact and shock. Do not subject the saw blade to lateral pressure.

Do not saw workpieces that have become bent or twisted out of shape. The workpiece must always have a straight edge to place the saw on.

The free end of long and heavy workpieces must have something placed underneath it or be supported.

Position of the operator (see figure I)

- **Do not stand in line with the saw blade in front of the power tool. Always stand to the side of the saw blade.**
This protects your body against possible kickback.

- Keep hands, fingers and arms away from the rotating saw blade.
- Do not reach one arm across the other when in front of the tool arm.

Sawing

- Firmly clamp the workpiece as appropriate for its dimensions.
- Set the required mitre angle as necessary.
- Switch on the power tool.
- Slowly guide the tool arm downwards using the handle (1).
- Saw through the workpiece applying uniform feed.

- Switch off the power tool and wait until the saw blade has come to a complete stop.
- Slowly guide the tool arm upwards.

Working advice**Marking the Cutting Line (see figure J)**

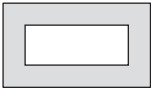
A laser beam shows you the cutting line of the saw blade. This allows for exact positioning of the workpiece for sawing, without having to open the retracting blade guard.

- Turn on the laser beam using the switch (26).
- Align your mark on the workpiece with the right-hand edge of the laser line.

Note: Before sawing, check whether the cutting line is still indicated correctly. The laser beam can be misplaced due to vibrations from intensive use, for example.

Permissible workpiece dimensions

Maximum workpiece dimensions [mm]

Workpiece shape	Mitre angle	
	0°	45°
	Dia. 127	Dia. 115
	127 x 127	115 x 115
	194 x 101	115 x 115
	127 x 127	115 x 115

Minimum workpiece dimensions

(= all workpieces which can still be clamped in place with the locking spindle (8)): Length 100 mm

Max. cutting depth (0°/0°): 127 mm

Dust/chip extraction (see figure K)

The dust from materials such as lead paint, minerals and metal can be harmful to human health. Touching or breathing in this dust can trigger allergic reactions and/or cause respiratory illnesses in the user or in people in the near vicinity.

Certain kinds of metal dust are hazardous, especially in combination with alloys such as zinc, aluminium or chrome. Materials containing asbestos may only be machined by specialists.

- Provide good ventilation at the workplace.
- It is advisable to wear a P2 filter class breathing mask.

The regulations on the material being machined that apply in the country of use must be observed.

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

The saw blade (29) can become blocked by dust, chips or workpiece fragments in the recess of the saw table (13).

- Switch off the power tool and wait until the saw blade has come to a complete stop.
- Remove the rechargeable battery (22).
- Pull out the chip drawer (21) and empty it completely.

Checking and adjusting the basic settings

To ensure precise cuts, the basic settings of the power tool must be checked and adjusted as necessary after intensive use.

Experience and suitable special tools are required for this.

A Bosch after-sales service point will handle this work quickly and reliably.

Adjusting the laser

Note: In order to test the laser function, the battery must be inserted.

- **While adjusting the laser (e.g. when moving the tool arm), never activate the on/off switch.** Accidental starting of the power tool can lead to injuries.
- Bring the power tool into the work position.

Checking (see figure L1)

- Draw a straight cutting line on the workpiece.
- Slowly guide the tool arm downwards using the handle (1).
- Position the workpiece so that the teeth of the saw blade line up with the cutting line.
- Hold the workpiece in this position and slowly guide the tool arm back up.
- Clamp the workpiece.
- Turn on the laser beam using the switch (26).

The laser beam must be flush with the cutting line on the workpiece along its entire length, even if the tool arm is guided downwards.

Setting (see figure L2)

- Turn the set screw (33) with a cross-headed screwdriver until the laser beam is parallel to the entire length of the cutting line on the workpiece.

One rotation anticlockwise moves the laser beam from left to right; one rotation clockwise moves the laser beam from right to left.

Transporting the Power Tool (see figure M)

Before transporting the power tool, the following steps must be carried out:

- Bring the power tool into the transport position.
- Remove all accessories that cannot be securely fitted to the power tool.
Secure the chip drawer (21) with the transport safety lock (32).
Push the tubular jaw (20) into its holder on the rear side of the power tool.
If possible, transport unused saw blades in an enclosed container.
- Always carry the power tool by the transport handle (24).

- **Only use the transport devices to transport the power tool and never the protective devices.**

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.
- **Clean the air vents on your power tool regularly.** The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.
- **In extreme conditions, always use a dust extractor if possible. Blow out ventilation slots frequently and install a residual current device (RCD) upstream.** When machining metals, conductive dust can settle inside the power tool, which can affect its protective insulation.
- **Have maintenance and repair work performed exclusively by a qualified specialist.** This will ensure that the safety of the power tool is maintained.

The retracting blade guard (5) must always be able to move freely and retract automatically. It is therefore important to keep the area around the retracting blade guard clean at all times. Remove dust and chips with a paintbrush.

After-Sales Service and Application Service

Australia

Phone: (01300) 307044

Great Britain

Tel. Service: (0344) 7360109

GB Importer:

Robert Bosch Ltd.
Broadwater Park
North Orbital Road
Uxbridge
UB9 5HJ

India

Phone: (044) 64561816

Israel

Tel. 03-9630050

Korea

Tel.: 080-955-0909 (Hotline)

Malaysia

Tel.: (03) 79663194

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/re-chargeable batteries into household waste!

Only for EU countries and United Kingdom:

Electrical and electronic equipment or used batteries that are no longer suitable for use must be collected separately and disposed of in an environmentally friendly manner. Use the designated collection systems. Incorrect disposal may cause harmful effects on the environment and human health, due to the potential presence of hazardous substances.

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