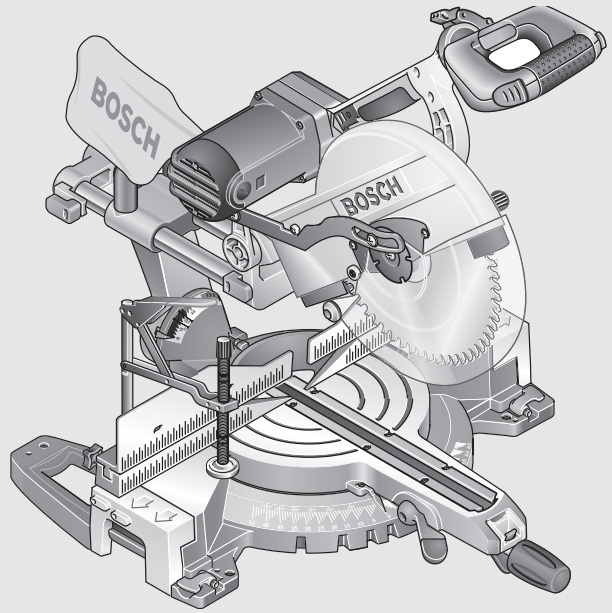

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Power Tools Division
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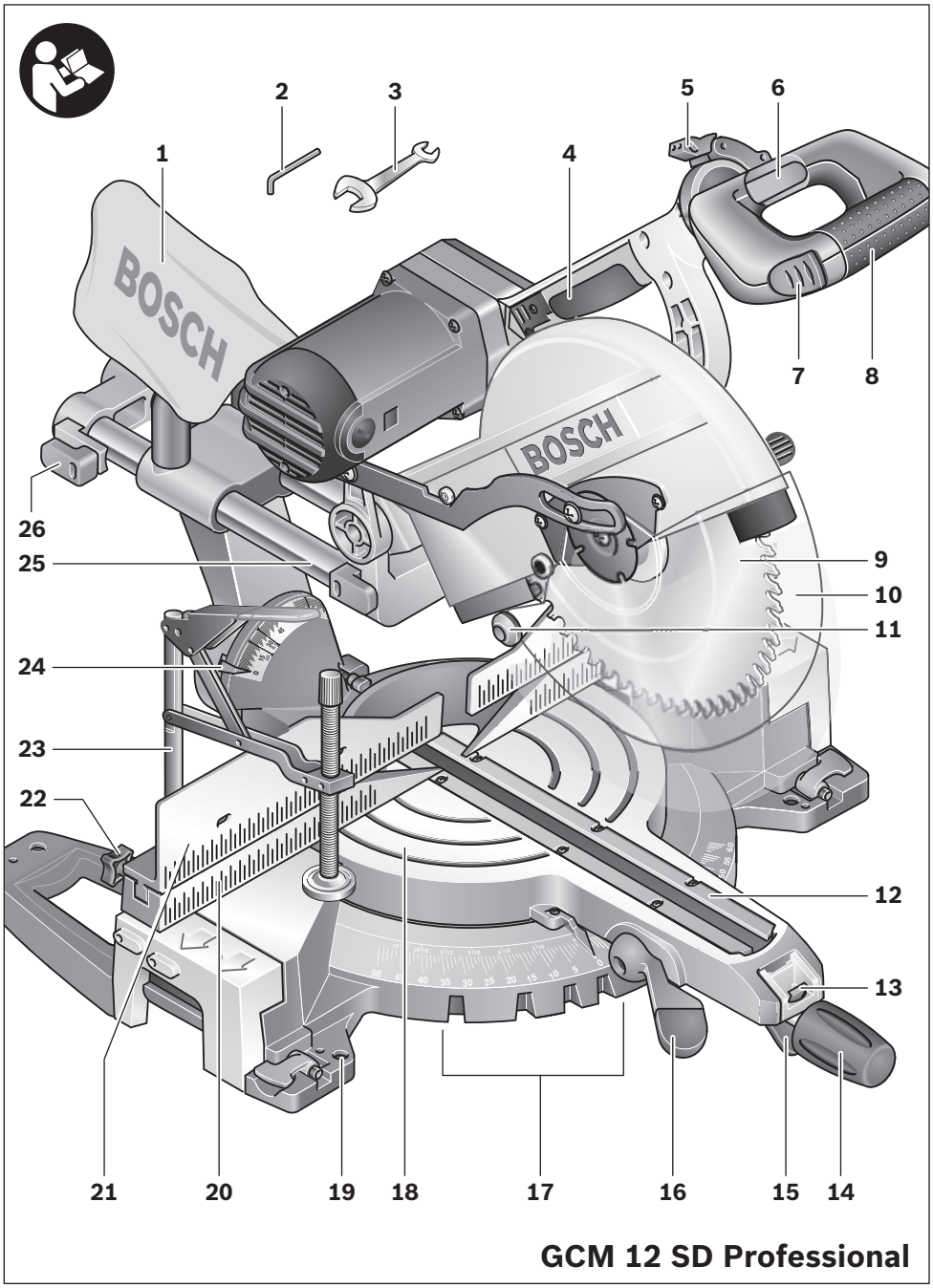
1 609 929 W13 (2010.01) PS / 283 **WEU**

1 609 929 W13

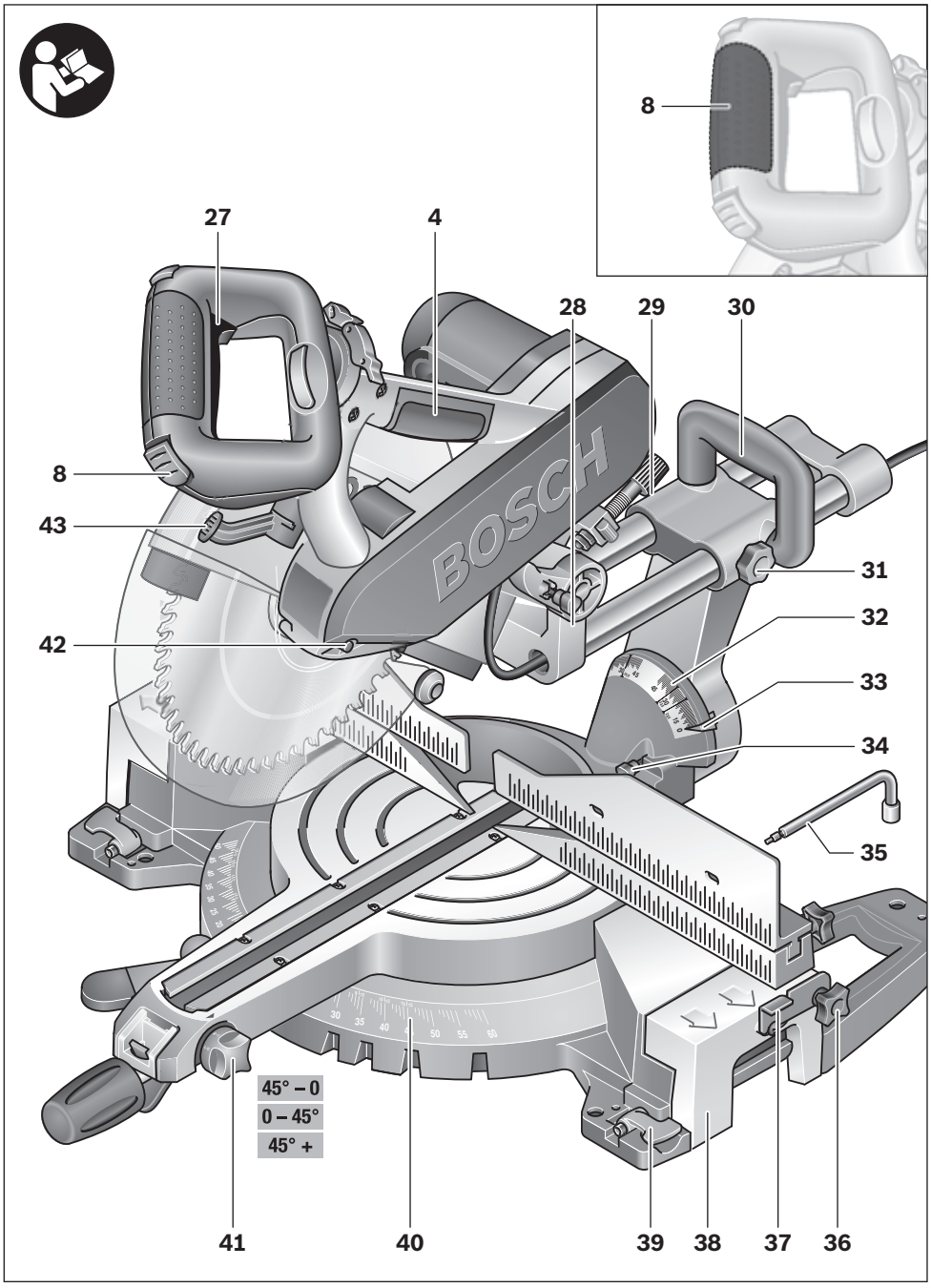
GCM 12 SD Professional

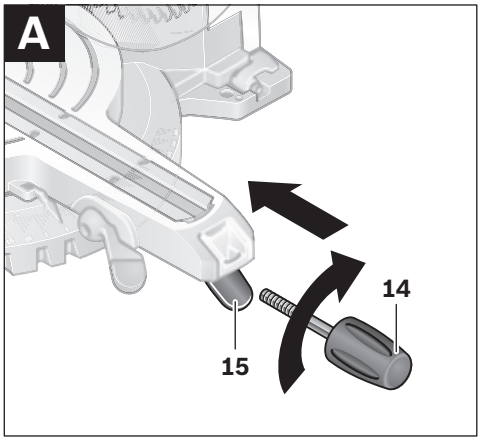
BOSCH

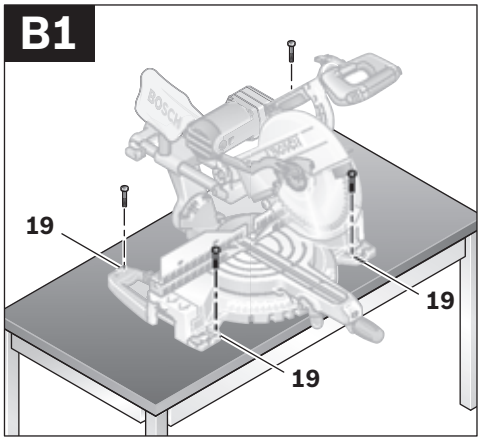
de Originalbetriebsanleitung
en Original instructions
fr Notice originale
es Manual original
pt Manual original
it Istruzioni originali
nl Oorspronkelijke gebruiksaanwijzing
da Original brugsanvisning
sv Bruksanvisning i original
no Original driftsinstruks
fi Alkuperäiset ohjeet
el Πρωτότυπο οδηγιών χρήσης
tr Orijinal işletme talimatı

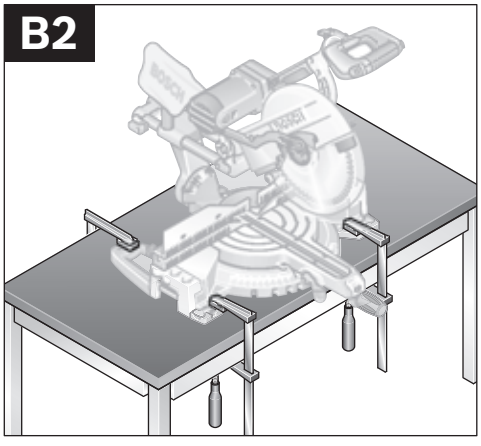


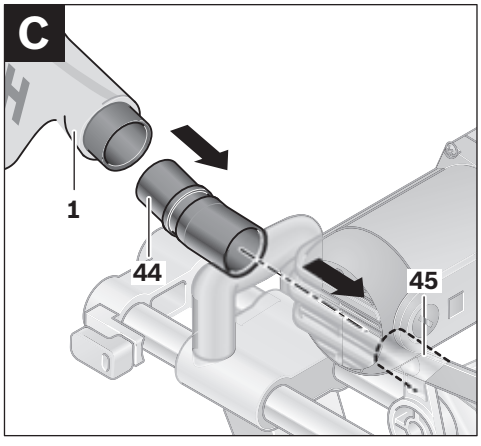
GCM 12 SD Professional

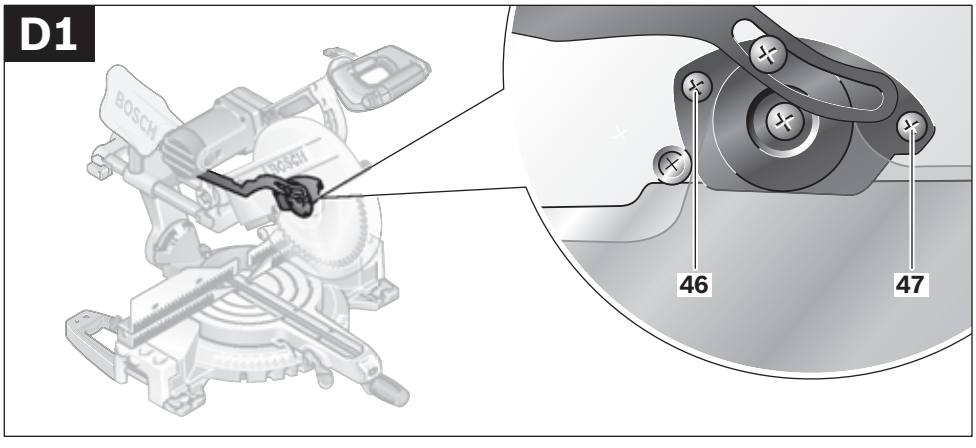


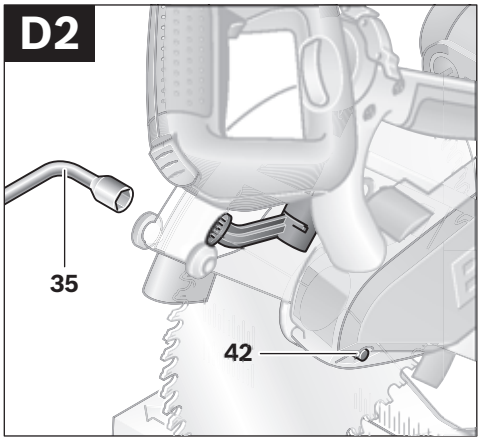


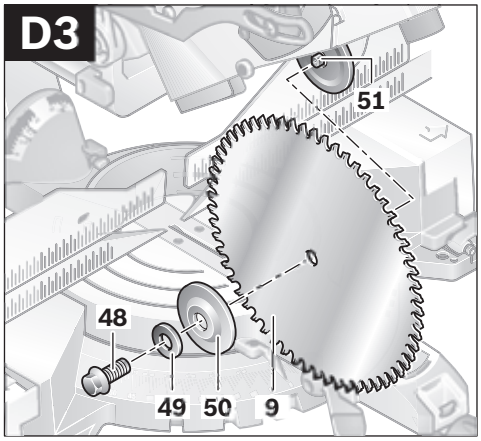


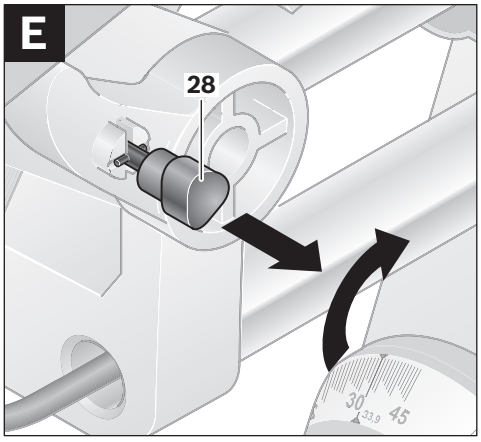


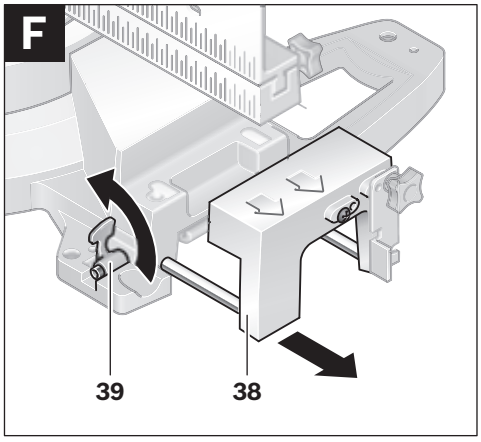


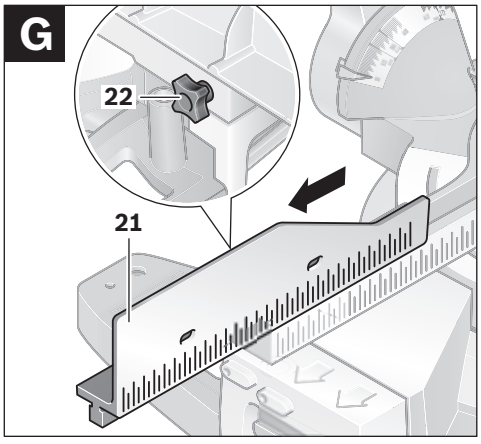


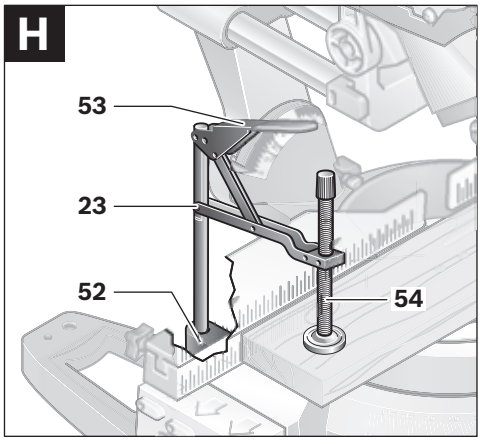


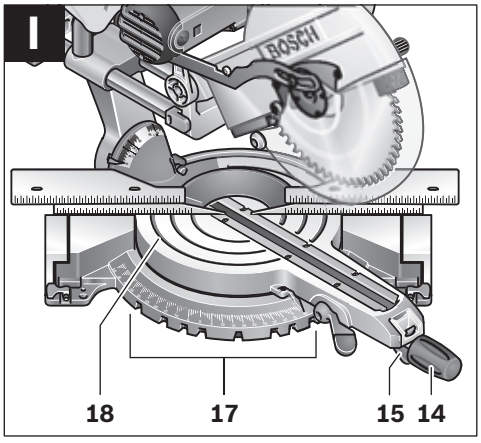


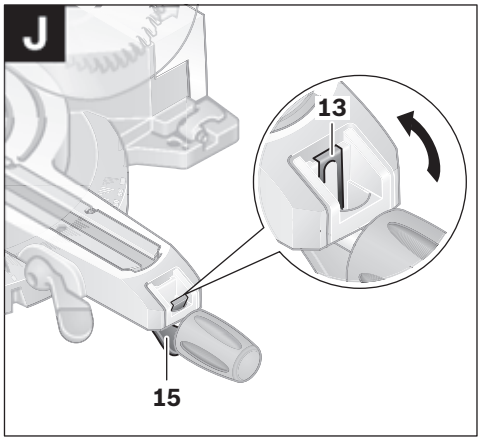


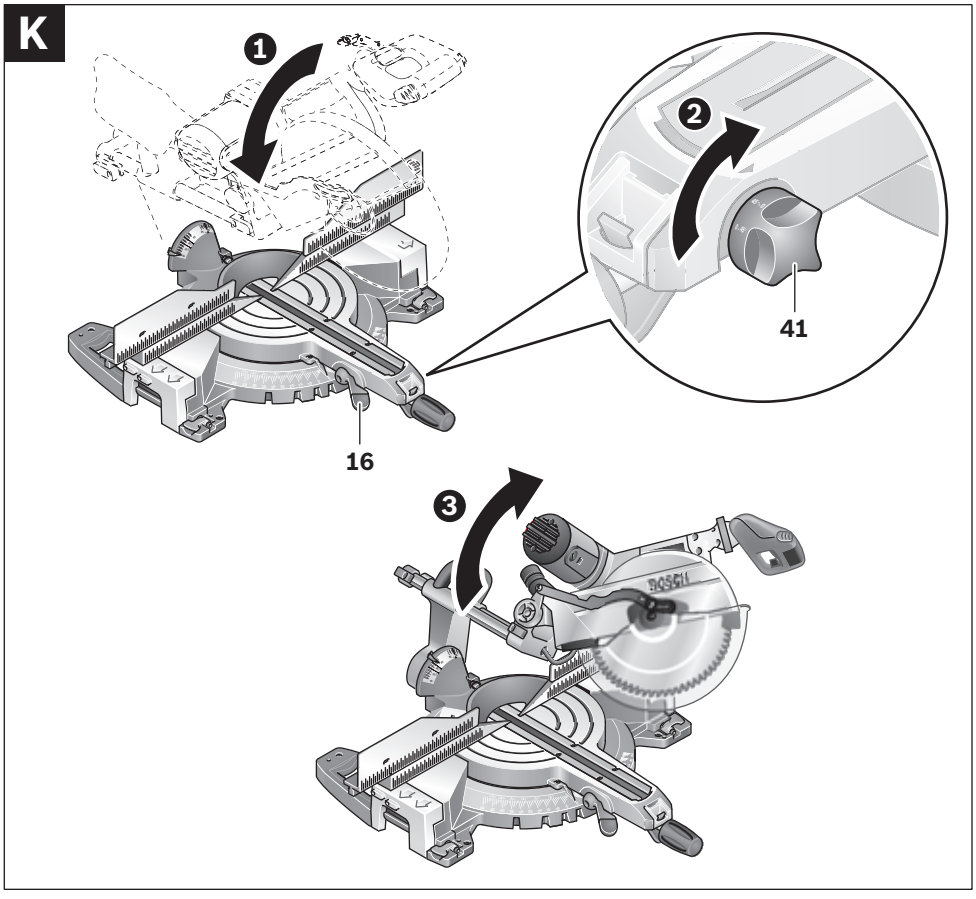












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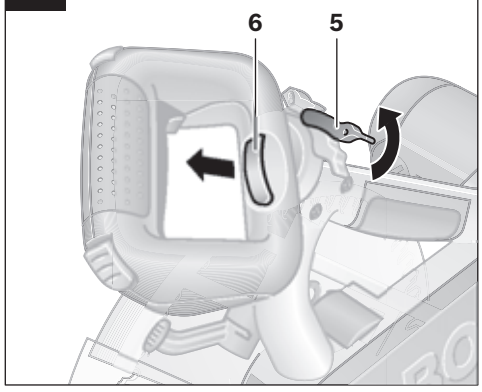

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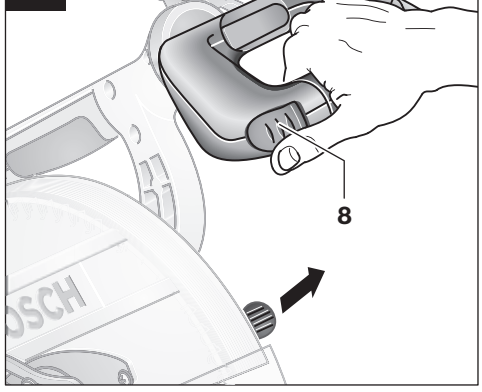

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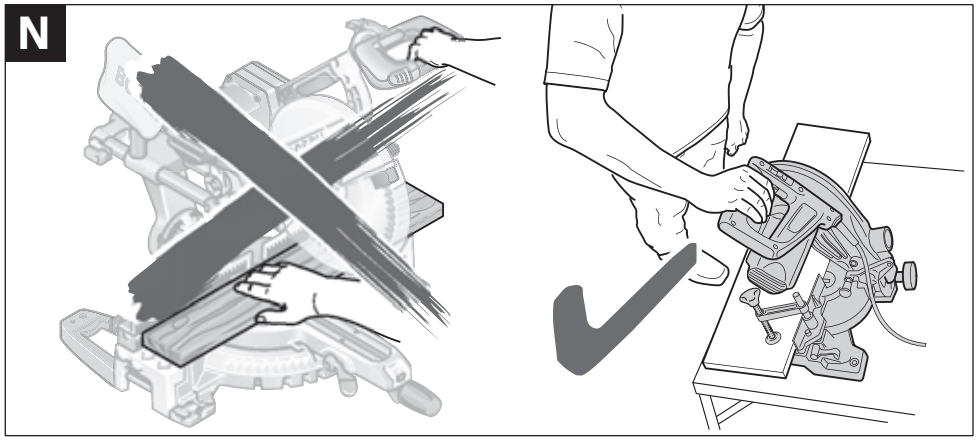

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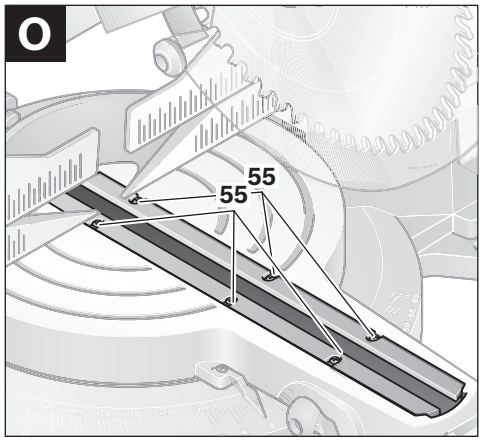

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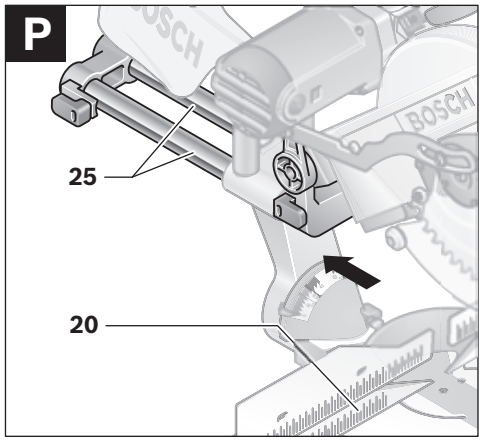

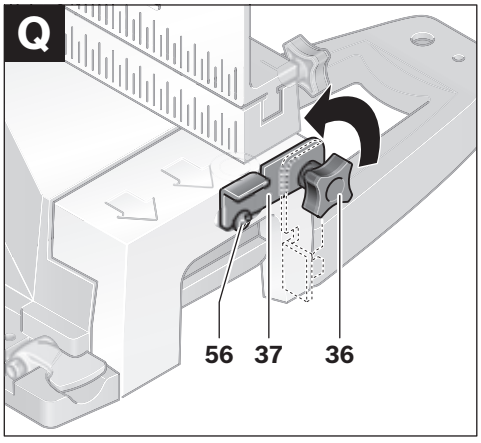

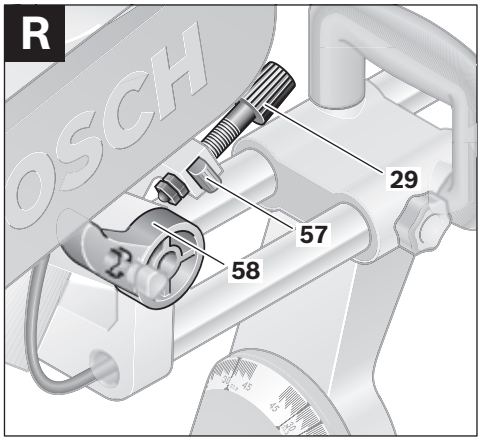

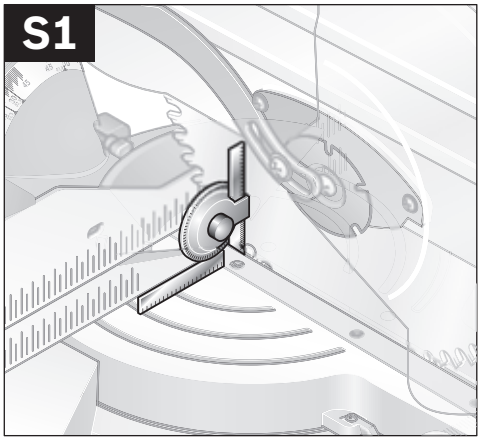

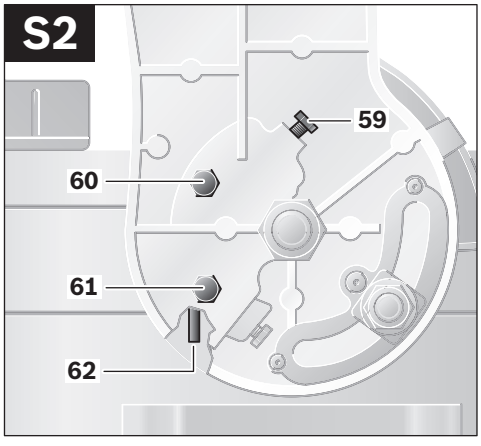

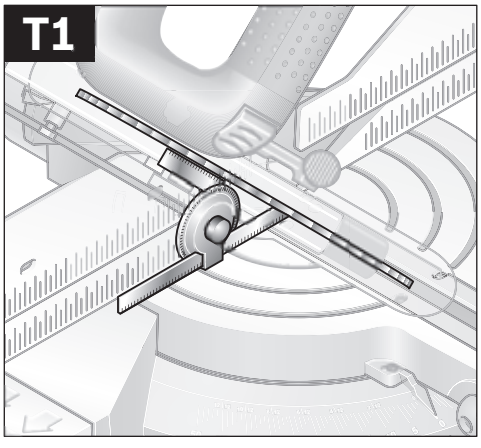

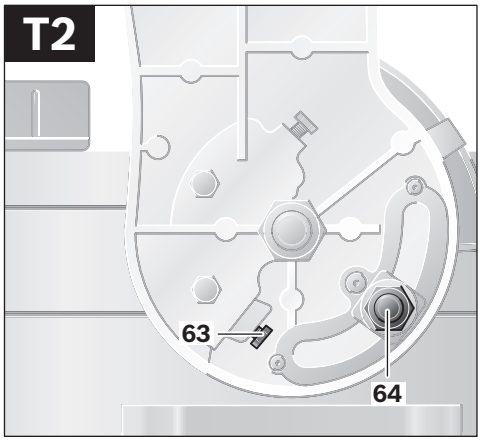

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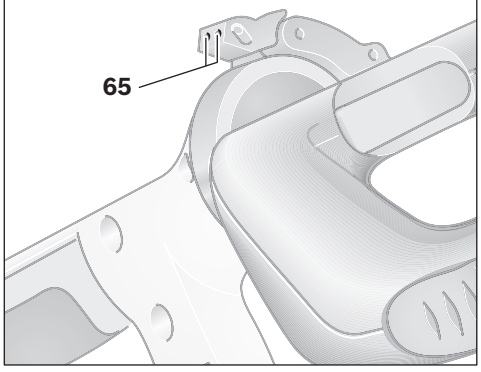

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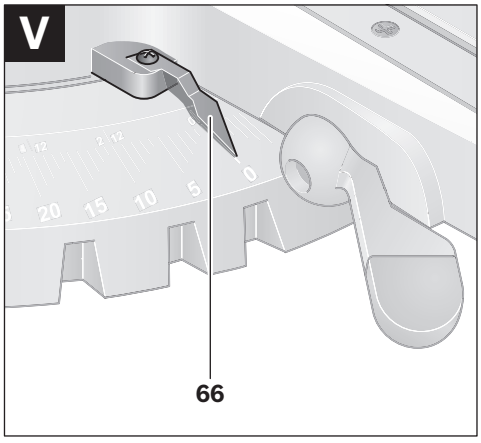

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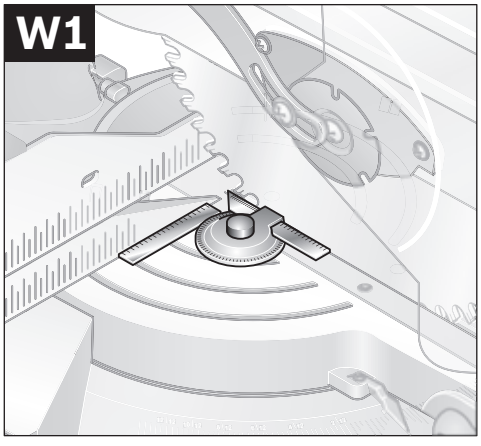

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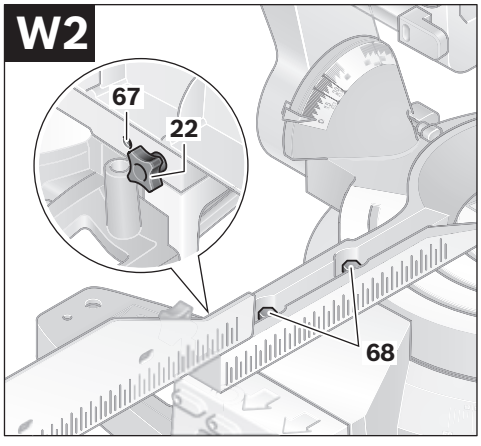

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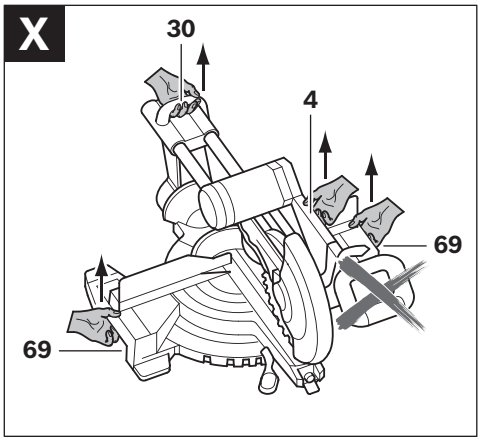


Safety Notes

General Power Tool Safety Warnings

⚠WARNING **Read all safety warnings and all instructions.** Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term “power tool” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1) Work area safety

a) Keep work area clean and well lit. Cluttered or dark areas invite accidents.

b) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.

c) Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2) Electrical safety

a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.

b) Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.

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

d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges and moving parts. Damaged or entangled cords increase the risk of electric shock.

e) When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.

f) If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

3) Personal safety

a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.

b) Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

c) Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.

d) Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

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

f) Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.

g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.

4) Power tool use and care

a) Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.

b) Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

c) Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.

e) Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

f) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

g) Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

5) Service

a) Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

Safety Warnings for Sliding Mitre Saws

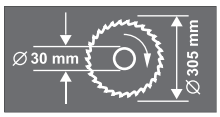
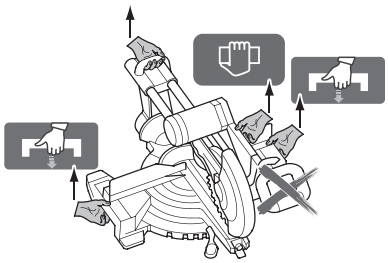
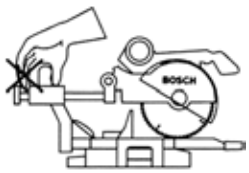
- **Never stand on the power tool.** Serious injuries can occur when the power tool tips over or when inadvertently coming into contact with the saw blade.
- **Make sure that the guard operates properly and that it can move freely.** Never lock the guard in place when opened.
- **Keep hands away from the cutting area while the machine is running.** Danger of injury when coming in contact with the saw blade.
- **Never remove cutting remainders, wood chips, etc. from the sawing area while the machine is running.** Always guide the tool arm back to the neutral position first and then switch the machine off.
- **Guide the saw blade against the workpiece only when the machine is switched on.** Otherwise there is damage of kickback, when the saw blade becomes wedged in the workpiece.
- **Keep handles dry, clean, and free from oil and grease.** Greasy, oily handles are slippery causing loss of control.
- **Operate the power tool only when the work area to the workpiece is clear of any adjusting tools, wood chips, etc.** Small pieces of wood or other objects that come in contact with the rotating saw blade can strike the operator with high speed.
- **Always firmly clamp the piece to be worked. Do not saw workpieces that are too small to clamp.** Otherwise, the clearance of your hand to the rotating saw blade is too small.
- **Use the machine only for cutting the materials listed under Intended Use.** Otherwise, the machine can be subject to overload.

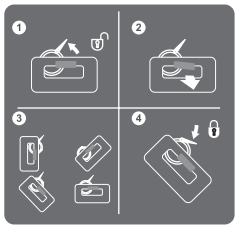
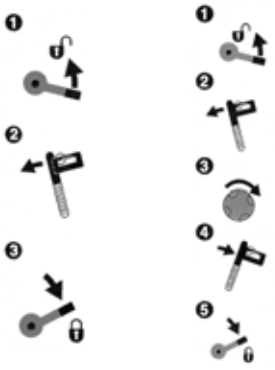
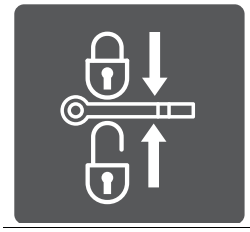
- **If the saw blade should become jammed, switch the machine off and hold the workpiece until the saw blade comes to a complete stop. To prevent kickback, the workpiece may not be moved until after the machine has come to a complete stop.** Correct the cause for the jamming of the saw blade before restarting the machine.
- **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 saw blades with correct size and shape (diamond versus round) of arbor holes.** Saw blades that do not match the mounting hardware of the saw will run eccentrically, causing loss of control.
- **Do not use high speed steel (HSS) saw blades.** Such saw blades can easily break.
- **Do not touch the saw blade after working before it has cooled.** The saw blade becomes very hot while working.
- **Never operate the machine without the insert plate. Replace a defective insert plate.** Without flawless insert plates, injuries are possible from the saw blade.
- **Check the cable regularly and have a damaged cable repaired only through an authorised customer service agent for Bosch power tools. Replace damaged extension cables.** This will ensure that the safety of the power tool is maintained.
- **Store the machine in a safe manner when not being used. The storage location must be dry and lockable.** This prevents the machine from storage damage, and from being operated by untrained persons.
- **Secure the workpiece.** A workpiece clamped with clamping devices or in a vice is held more secure than by hand.
- **Keep your workplace clean.** Blends of materials are particularly dangerous. Dust from light alloys can burn or explode.
- **Never leave the machine before it has come to a complete stop.** Cutting tools that are still running can cause injuries.
- **Never use the machine with a damaged cable. Do not touch the damaged cable and pull the mains plug when the cable is damaged while working.** Damaged cables increase the risk of an electric shock.

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.

Symbols

The following symbols can be important for the operation of your power tool. Please memorise the symbols and their meanings. The correct interpretation of the symbols helps you operate the power tool better and more secure.

Symbol	Meaning
	▶ **Wear ear protectors.** Exposure to noise can cause hearing loss.
	▶ **Wear safety goggles.**
	▶ **Wear a dust respirator.**
	▶ **Danger area! Keep hands, fingers or arms away from this area.**
	Observe the dimensions of the saw blade. The hole diameter must match the tool spindle without play. Do not use reducers or adapters.
	When transporting the machine, hold it only at the locations indicated.
	Danger of crushes or contusions! When transporting, ensure that your fingers are positioned around the transport handle.

Symbol	Meaning
	Indicates the individual steps for adjusting the handle.
	Indicates the individual steps for adjusting the bevel angle. Left column: – Bevel angle range **45°– 0** Saw blade is inclined to the left Right column: – Bevel angle range **0 – 45°** Saw blade is inclined to the right – Bevel angle range **45°+** Complete tilting range of the tool arm
	Indicates the position of the locking lever for locking the tool arm and for adjusting the bevel angle.
	**Only for EC countries:** Do not dispose of power tools into household waste! According the European Guideline 2002/96/EC for Waste Electrical and Electronic Equipment and its implementation into national right, power tools that are no longer usable must be collected separately and disposed of in an environmentally correct manner.

Functional Description

Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Intended Use

The power tool is intended as a stationary machine for making straight lengthways and crossways cuts in wood. In this, horizontal mitre angles from –52° to +60° as well as vertical bevel angles from 47° (leftward) to 47° (rightward) are possible.
The capacity of the power tool is designed for sawing hardwood and softwood.

The power tool is not suitable for cutting aluminium or other non-ferrous metals or alloys.

Product Features

The numbering of the components shown refers to the representation of the power tool on the graphic pages.

1 Dust bag
2 Allen key (size 1,5 mm)
3 Open-end spanner (17 mm; 10 mm)
4 Transport handle (front)
5 Clamp for handle
6 Tongue for grade-adjustment of handle
7 Handle
8 Button for releasing locking lever **43**
9 Saw blade
10 Retracting blade guard
11 Roller
12 Insert plate
13 Locking bracket
14 Locking knob for various mitre angles (horizontal)
15 Lever for mitre angle adjustment (horizontal)
16 Clamping lever for various bevel angles (vertical)
17 Detents for standard mitre angles
18 Saw table
19 Mounting holes
20 Fence
21 Fence extension
22 Locking screw for fence extension
23 Quick-action clamp
24 Angle indicator (vertical) for rightward bevel angle range **0 – 45°**
25 Slide device
26 Cable holder
27 On/Off switch
28 Transport safety-lock
29 Adjusting screw of depth stop
30 Transport handle (rear)
31 Locking screw for slide device
32 Scale for bevel angle (vertical)
33 Angle indicator (vertical) for leftward bevel angle range **45°– 0**
34 Adjustment knob for 33.9° bevel angle
35 Socket spanner (14 mm)/ Allen key (4 mm)/Phillips screwdriver
36 Lock screw of the length stop
37 Length stop
38 Saw-Table extension
39 Tensioning lever for saw-table extension
40 Scale for mitre angle (horizontal)
41 Knob for adjustment of the bevel angle range
42 Spindle lock
43 Locking lever
44 Extraction adapter
45 Sawdust ejector
46/47 Phillips screw (attachment of retracting blade guard)
48 Hexagon bolt for saw-blade attachment
49 Washer
50 Clamping flange
51 Interior clamping flange
52 Holes for quick-action clamp
53 Clamping lever of the quick-action clamp
54 Threaded rod
55 Screws for insert plate
56 Clamping screw of the length stop

57 Button for rapid-setting of the adjusting screw **29**

58 Depth stop

59–**62** Set screws for 0° basic setting (bevel angle)

63 Set screw for 45° basic setting (leftward bevel angle)

64 Set screw for clamping force of clamping lever **16**

65 Set screw for clamping force of clamp **5**

66 Angle indicator (horizontal)

67 Adjustment screw of the fence extension

68 Allen screws (14 mm) of the fence

69 Recessed grips

Accessories shown or described are not part of the standard delivery scope of the product. A complete overview of accessories can be found in our accessories program.

Technical Data

Sliding Mitre Saw			**GCM 12 SD Professional**	
Article number 0 601 B23 ...		... 503 ... 508 ... 532 ... 542	... 537	... 541
Rated power input	W	1800	1800	1450
Rated voltage	V	230	240	110
Frequency	Hz	50/60	50/60	50/60
No-load speed	min^{-1}	3800	3800	3700
Weight according to EPTA-Procedure 01/2003	kg	29.1	29.1	29.1
Protection class		⧈/II	⧈/II	⧈/II
Dimension of suitable saw blades				
Saw blade diameter	mm	305	305	305
Blade thickness	mm	2.5	2.5	2.5
Mounting hole diameter	mm	30	25.4	30

Permissible workpiece dimensions (maximal/minimal) see page 45.

The values given are valid for nominal voltages [U] of 230/240 V. For lower voltage and models for specific countries, these values can vary.

Starting cycles generate brief voltage drops. Interference with other equipment/machines may occur in case of unfavourable mains system conditions. Malfunctions are not to be expected for system impedances below 0.15 ohm.

Please observe the article number on the type plate of your machine. The trade names of the individual machines may vary.

Noise/Vibration Information

Measured sound values determined according to EN 61029.

Typically the A-weighted noise levels of the product are: Sound pressure level 92 dB(A); Sound power level 105 dB(A). Uncertainty K = 3 dB.

Wear hearing protection!

Vibration total values (triax vector sum) determined according to EN 61029:
Vibration emission value a_h = 3.0 m/s^2, Uncertainty K = 1.5 m/s^2.

The vibration emission level given in this information sheet has been measured in accordance with a standardised test given in EN 61029 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 the hands warm, organisation of work patterns.

Declaration of Conformity CE

We declare under our sole responsibility that the product described under “Technical Data” is in conformity with the following standards or standardization documents: EN 61029 according to the provisions of the directives 2004/108/EC, 2006/42/EC.

Technical file at:
Robert Bosch GmbH, Dept. PT/ESC,
D-70745 Leinfelden-Echterdingen

Dr. Egbert Schneider	Dr. Eckerhard Strötgen
Senior Vice President Engineering	Head of Product Certification

ppa. i.V.

Robert Bosch GmbH, Power Tools Division
D-70745 Leinfelden-Echterdingen
Leinfelden, 14.01.2010

Assembly

▶ **Avoid unintentional starting of the machine. During assembly and for all work on the machine, the power plug must not be connected to the mains supply.**

Delivery Scope

Carefully remove all parts included in the delivery from their packaging.

Remove all packaging material from the machine and the accessories provided.

Before starting the operation of the machine for the first time, check if all parts listed below have been supplied:

- Sliding mitre saw with premounted saw blade
- Locking knob **14**
- Dust bag **1**
- Extraction adapter **44**
- Allen key **2**
- Open-end spanner **3**
- Socket spanner/Allen key/ Phillips screwdriver **35**
- Quick-action clamp **23**

Note: Check the power tool for possible damage.
Before further use of the machine, check that all protective devices are fully functional. Any lightly damaged parts must be carefully checked to ensure flawless operation of the tool. All parts must be properly mounted and all conditions fulfilled that ensure faultless operation.
Damaged protective devices and parts must be immediately replaced by an authorised service centre.

Mounting the Locking Knob (see figure A)

– Screw the locking knob **14** into the corresponding drill hole above the lever **15**.

▶ **Always tighten the locking knob 14 firmly before sawing.** Otherwise the saw blade can become wedged in the workpiece.

Stationary or Flexible Mounting

▶ **To ensure safe handling, the machine must be mounted on a level and stable surface (e. g., workbench) prior to using.**

Mounting to a Working Surface (see figures B1–B2)

– Fasten the power tool with suitable screw fasteners to the working surface. The holes **19** serve for this purpose.

or

– Clamp the power tool with commercially available screw clamps by the feet to the working surface.

Mounting to 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 safety warnings and instructions included with the worktable.** Failure of observing safety warnings and instructions can lead to electrical shock, fire and/or cause serious injuries.

▶ **Assemble the worktable properly before mounting the power tool.** Perfect assembly is important in order to prevent the risk of collapsing.

– Mount the power tool on the saw stand in the transport position.

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.

– Use dust extraction whenever possible.
– 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.

The dust/chip extraction can be blocked by dust, chips or workpiece fragments.

– Switch the machine off and pull the mains plug from the socket outlet.
– Wait until the saw blade has come to a complete stop.
– Determine the cause of the blockage and correct it.

Integrated Dust Extraction (see figure C)

– Mount extraction adapter **44** firmly onto sawdust ejector **45**.
– Mount dust bag **1** firmly onto extraction adapter **44**.

During sawing, the dust bag and the extraction adapter may never come in contact with moving tool components.

Always empty the dust bag in good time.

External Dust Extraction

For dust extraction, you can also connect the extraction adapter **44** to a vacuum hose (Ø 32 mm).

The vacuum cleaner must be suitable for the material being worked.

When vacuuming dry dust that is especially detrimental to health or carcinogenic, use a special vacuum cleaner.

Changing the Tool (see figures D1–D3)

- ▶ **Before any work on the machine itself, pull the mains plug.**
- ▶ **When mounting the saw blade, wear protective gloves.** Danger of injury when touching the saw blade.

Use only saw blades whose maximum permitted speed is higher than the no-load speed of the power tool.

Use only saw blades that correspond with the characteristic data given in these operation instructions and that are tested and marked in accordance with EN 847-1.

Use only saw blades recommended by the tool manufacturer, and suitable for sawing the materials to be cut.

Removing the Saw Blade

- – Bring the power tool into the working position.
- – Pull the transport safety-lock **28** all the way outward and turn it by 90°. Allow the transport safety-lock to engage in this position.
  The tool arm is now locked in the working position.
- – Loosen the screws **47** and **46** with the provided Phillips screwdriver **35**.
  Do not completely unscrew the screws.
- – Push the locking lever **43** and swing the retracting blade guard **10** to the rear to the stop.
- – Turn hexagon bolt **48** with the supplied socket spanner **35** and at the same time press the spindle lock **42** until it engages.
- – Keep the spindle lock **42** pressed and unscrew hexagon bolt **48** in clockwise direction **(left-hand thread!)**.
- – Remove the washer **49** and the clamping flange **50**.
- – Remove the saw blade **9**.

Mounting the Saw Blade

If required, clean all parts to be mounted prior to assembly.

- – Place the new saw blade onto the interior clamping flange **51**.
- ▶ **Take care during the mounting that the cutting direction of the teeth (direction of the arrow on the saw blade) agrees with the direction of the arrow on the retracting blade guard!**
- – Mount the clamping flange **50**, the washer **49** and the hexagon bolt **48**.
  Press spindle lock **42** until it engages and tighten hexagon bolt **48** with the supplied socket spanner **35** in anticlockwise direction with a tightening torque of approx. 15–23 Nm.
- – Push the locking lever **43** and guide the retracting blade guard **10** down again.
- – Retighten the screws **47** and **46**.

Operation

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

Transport Safety (see figure E)

The transport safety-lock **28** enables easier handling of the machine when transporting to various working locations.

Releasing the Machine (Working Position)

- – Push the tool arm by the handle **7** down a little in order to relieve the transport safety-lock **28**.
- – Pull the transport safety-lock **28** all the way outward and turn it by 90°. Allow the transport safety-lock to engage in this position.
- – Guide the tool arm slowly upward.

Securing the Machine (Transport Position)

– Loosen the locking screw **31** if tightened. Pull the tool arm completely to the front and tighten the locking screw again.
– Screw the depth stop **58** completely to the top. (see “Adjusting the Depth Stop”, page 46)
– To lock the saw table **18**, tighten the locking knob **14**.
– Pull the transport safety-lock **28** all the way outward and turn it by 90°. Allow the transport safety-lock to engage in this position.
– Push the locking lever **43** and at the same time lower the tool arm via handle **7** until the transport safety-lock engages in the end position.

  The tool arm is now securely locked for transport.

Preparing for Operation

Extending the Saw Table (see figure F)

Long workpieces must be underlaid or supported at their free end.

– Push tensioning lever **39** upward.
– Pull out saw-table extension **38** to the desired length (max. 225 mm).
– Lock in place by pushing tensioning lever **39** down again.

Extending the Fence (see figure G)

For bevel angles, the fence extensions **21** must be moved.

– Loosen locking screw **22** and completely pull out the fence extension **21**.
– Retighten the screw again.

Clamping the Workpiece (see figure H)

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

▶ **While clamping the workpiece, do not reach under the clamping lever of the quick-action clamp with your fingers.**

– Press the workpiece firmly against the fence **20**.
– Insert the quick-action clamp **23** into one of the holes **52** intended for this purpose.
– Adapt the quick-action clamp to the workpiece by turning the threaded rod **54**.
– Push on the clamping lever **53** in order to clamp the workpiece.

Adjusting Horizontal Mitre Angles

To ensure precise cuts, the basic adjustment of the machine must be checked and adjusted as necessary after intensive use (see “Checking and Adjusting the Basic Adjustment”, page 49).

▶ **Always tighten the locking knob 14 firmly before sawing.** Otherwise the saw blade can become wedged in the workpiece.

Adjusting Horizontal Standard Mitre Angles (see figure I)

For quick and precise adjustment of commonly used mitre angles, detents **17** have been provided for on the saw table:

Left	Right
0°	
15°; 22,5°; 31,6°; 45°; 52°	15°; 22,5°; 31,6°; 45°; 60°

– Loosen the locking knob **14** in case it is tightened.
– Pull lever **15** and rotate the saw table **18** left or right to the requested detent.
– Release the lever again. The lever must be felt to engage in the detent.

Adjusting Any Horizontal Mitre Angle (see figure J)

The horizontal mitre angle can be set in the range from 52° (left side) to 60° (right side).

– Loosen the locking knob **14** in case it is tightened.
– Pull lever **15** and at the same time push the locking bracket **13** until it engages in the groove intended for this. The saw table can be moved freely now.
– Turn the saw table **18** left or right by the locking knob until the angle indicator **66** indicates the requested mitre angle.
– Tighten the locking knob **14** again.

Adjusting Vertical Bevel Angles

To ensure precise cuts, the basic adjustment of the machine must be checked and adjusted as necessary after intensive use (see “Checking and Adjusting the Basic Adjustment”, page 49).

The vertical bevel angle can be adjusted in a range from 47° (leftward) to 47° (rightward).

For quick and precise adjustment of commonly used bevel angles, stops are provided for 0°, 45° and 33.9° angles.

Bevel angle range 45°– 0

– Pull the left fence extension **21** completely outward. (see “Extending the Fence”, page 43)
– Loosen the clamping lever **16**.
– Tilt the tool arm leftward via handle **7** until the angle indicator **33** indicates the desired bevel angle.
– Hold the tool arm in this position and retighten the clamping lever **16**.

  The clamping force of the clamping lever must securely hold the position of the tool arm at any bevel angle.

Bevel angle range 0 – 45° (see figure K)

– Pull the right fence extension **21** completely outward. (see “Extending the Fence”, page 43)
– Loosen the clamping lever **16**.
– Lightly tilt the tool arm leftward out of the 0° position via handle **7** and turn knob **41** until the desired bevel angle range is indicated.
– Tilt the tool arm via handle **7** to the right until angle indicator **24** indicates the desired bevel angle.
– Hold the tool arm in this position and retighten the clamping lever **16**.

  The clamping force of the clamping lever must securely hold the position of the tool arm at any bevel angle.

Standard 0° Bevel Angle

To enable simple and swift resetting of the standard 0° bevel angle, knob **41** will engage in the **45°– 0** bevel angle range.

– Tilt the tool arm from right to left over the 0° position.

Bevel angle range 45°+

– Pull both fence extensions **21** completely outward. (see “Extending the Fence”, page 43)
– Loosen the clamping lever **16**.
– Lightly tilt the tool arm leftward out of the 0° position via handle **7** and turn knob **41** until the desired bevel angle range is indicated.
– Tilt the tool arm via handle **7** to the left or right until angle indicator **33** or **24** indicate the desired bevel angle.
– Hold the tool arm in this position and retighten the clamping lever **16**.

  The clamping force of the clamping lever must securely hold the position of the tool arm at any bevel angle.

Standard 33.9° Bevel Angle

– Pull adjustment knob **34** completely outward and turn it by 90°. Now tilt the tool arm via the handle **7** until the tool arm can be heard to engage.

Adjusting the Handle (see figure L)

For a more convenient hand position, the handle **7** can be turned to 4 different positions.

– Loosen clamp **5**.
– Grasp and pull tongue **6** outward, then turn handle **7** until it engages in the desired position.
– Let go of tongue **6** again and lock clamp **5**.

Starting Operation

Switching On (see figure M)

– To **start** the machine, press the On/Off switch **27** and keep it pressed.

Note: For safety reasons, the On/Off switch **27** cannot be locked; it must remain pressed during the entire operation.

The locking lever **43** will only disengage the retracting blade guard **10** after pressing button **8**, so that the tool arm can be lowered.

– For **sawing**, you must press button **8** in addition to actuating the On/Off switch.

Switching Off

– To **switch off** the machine, release the On/Off switch **27**.

Working Advice

General Sawing Instructions

▶ **For all cuts, it must first be ensured that the saw blade at no time can come in contact with the fence, screw clamps or other machine parts. Remove possibly mounted auxiliary stops or adjust them accordingly.**

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

Do not saw warped/bent workpieces. The workpiece must always have a straight edge to face against the fence.

Long workpieces must be underlaid or supported at their free end.

Position of the Operator (see figure N)

▶ **Do not stand in a line with the saw blade in front of the machine. Always stand aside of the saw blade.** This protects your body against possible kickback.

– Keep hands, fingers and arms away from the rotating saw blade.
– Do not cross your arms when operating the tool arm.

Permissible Workpiece Dimensions

Maximal workpiece sizes:

Mitre/Bevel Angle		Height x Width [mm]
Horizontal	Vertical	
0°	0°	110 x 305
45°	0°	110 x 217
0°	45° (leftward)	63 x 305
0°	45° (rightward)	38 x 305
45°	45° (leftward)	63 x 217
45°	45° (rightward)	38 x 217

Minimal workpiece sizes
(= all workpieces that can be clamped left or right from the saw blade with the provided quick-action clamp **23**):
185 x 40 mm (length x width)

Cutting capacity, max. (0°/0°): 110 mm

Replacing Insert Plates (see figure O)

The red insert plates **12** can become worn after long use of the machine.

Replace defective insert plates.

– Bring the power tool into the working position.
– Unscrew the screws **55** using the provided Phillips screwdriver and remove the old insert plates.
– Insert the new insert plates.
– Set the bevel angle to 47° (leftward).
– Push locking lever **43** and completely lower the tool arm.
– Position the insert plate approx. 2 mm away from the saw blade. Make sure that the saw blade does not come in contact with the insert plates throughout the complete possible ripping length.
– Refasten the insert plate with the screws.
– Repeat the work steps for the other insert plate in the same manner.

Sawing

Sawing without Slide Movement (Cutting Off) (see figure P)

- For cuts without slide movement (small workpieces), loosen the locking screw **31** in case it is tightened. Slide the tool arm to the stop in the direction of the fence **20** and retighten the locking screw **31**.
- Firmly clamp the workpiece as appropriate for its dimensions.
- Set the desired mitre angle.
- Switch on the machine.
- Press button **8** and guide the tool arm slowly downward with handle **7**.
- Saw through the workpiece applying uniform feed.
- Switch off the machine and wait until the saw blade has come to a complete stop.
- Guide the tool arm slowly upward.

Sawing with Slide Movement

- For cuts using the slide device **25** (wide workpieces), loosen the locking screw **31** in case it is tightened.
- Firmly clamp the workpiece as appropriate for its dimensions.
- Set the desired mitre angle.
- Pull the tool arm away from the fence **20** far enough so that the saw blade is in front of the workpiece.
- Switch on the machine.
- Press button **8** and guide the tool arm slowly downward with handle **7**.
- Press the tool arm in the direction of the fence **20** and saw through the workpiece applying uniform feed.
- Switch off the machine and wait until the saw blade has come to a complete stop.
- Guide the tool arm slowly upward.

Sawing Workpieces of the Same Length (see figure Q)

The length stop **37** can be used for easily sawing workpieces to the same length.

The length stop can be mounted on either side of the saw table extension **38**.

- Loosen lock screw **36** and swing the length stop **37** over clamping screw **56**.
- Retighten lock screw **36**.
- Adjust the saw table extension **38** to the desired length (see “Extending the Saw Table”, page 43).

Adjusting the Depth Stop (Sawing Grooves) (see figure R)

The depth stop must be adjusted when a butt gap is to be sawed.

- Push the locking lever **43** and lower the tool arm to the desired position.
- Press button **57**.
- Push in adjusting screw **29** until the screw end touches depth stop **58**.
- Release button **57** again.
- Guide the tool arm slowly upward.

Special Workpieces

When sawing curved or round workpieces, these must be especially secured against slipping. At the cutting line, no gap may exist between workpiece, fence and saw table.

Provide for special fixtures, if required.

Sawing Profile Strips/Mouldings (Floor and Ceiling Strips)

Profile strips/mouldings can be sawn in two different ways:

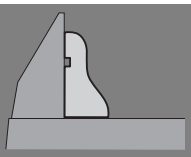
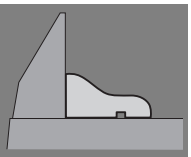
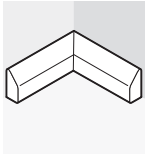
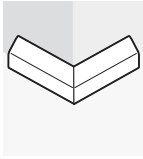
- Placed against the fence
- Lying flat on the saw table.

In addition, the cut can be perfomed with or without slide movement depending on the width of the profile strip/moulding.

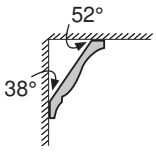
Always make trial cuts with the mitre angle setting first on scrap wood.

Floor Strips/Mouldings

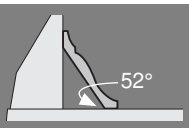
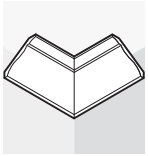
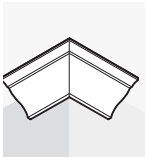
The following table contains instructions for sawing floor strips/mouldings.

Settings		**Placed against the fence** 		**Lying flat on the saw table** 	
Vertical bevel angle		**0°**		**45°**	
Floor strip/moulding		Left side	Right side	Left side	Right side
Inner corner 	Horizontal mitre angle	45° left	45° right	0°	0°
	Positioning of workpiece	Bottom edge on saw table	Bottom edge on saw table	Upper edge against the fence	Bottom edge against the fence
	The finished workpiece is located...	... to the left of the cut	... to the right of the cut	... to the left of the cut	... to the left of the cut
Outer corner 	Horizontal mitre angle	45° right	45° left	0°	0°
	Positioning of workpiece	Bottom edge on saw table	Bottom edge on saw table	Bottom edge against the fence	Upper edge against the fence
	The finished workpiece is located...	... to the right of the cut	... to the left of the cut	... to the right of the cut	... to the right of the cut

Ceiling Strips/Mouldings (According to US Standard)



When the ceiling strips/mouldings are to be sawn lying flat on the saw table, the standard mitre angles of 31.6° (horizontal) and 33.9° (vertical) must be set. The following table contains instructions for sawing ceiling strips/mouldings.

Settings		**Placed against the fence** 		**Lying flat on the saw table** 	
Vertical bevel angle		**0°**		**33.9°**	
Ceiling strip/moulding		Left side	Right side	Left side	Right side
Inner corner 	Horizontal mitre angle	45° right	45° left	31.6° right	31.6° left
	Positioning of workpiece	Bottom edge against the fence	Bottom edge against the fence	Upper edge against the fence	Bottom edge against the fence
	The finished workpiece is located...	... to the right of the cut	... to the left of the cut	... to the left of the cut	... to the left of the cut
Outer corner 	Horizontal mitre angle	45° left	45° right	31.6° left	31.6° right
	Positioning of workpiece	Bottom edge against the fence	Bottom edge against the fence	Bottom edge against the fence	Upper edge against the fence
	The finished workpiece is located...	... to the right of the cut	... to the left of the cut	... to the right of the cut	... to the right of the cut

Checking and Adjusting the Basic Adjustment

To ensure precise cuts, the basic adjustment of the machine must be checked and adjusted as necessary after intensive use.
A certain level of experience and appropriate specialty tools are required for this.

A Bosch after-sales service station will handle this maintenance task quickly and reliably.

Setting the Standard Bevel Angle 0° (Vertical)

– Bring the machine into the transport position.
– Turn the saw table **18** to the 0° detent **17**. The lever **15** must be felt to engage in the detent.

Checking: (see figure S1)

– Set an angle gauge to 90° and place it on the saw table **18**.

The leg of the angle gauge must be flush with the saw blade **9** over the complete length.

Adjusting: (see figure S2)

– Loosen the clamping lever **16**.
– Loosen set screws **60** and **61** with the supplied open-end spanner **3** (10 mm).
– Loosen set screw **62** (approx. 3 turns) with the supplied Allen key **35** (4 mm).
– Screw set screw **59** (10 mm) in or out until the leg of the angle gauge is flush with the saw blade over the complete length.
– Retighten the clamping lever **16** again. Afterwards, tighten set screw **62** first, and then set screws **60** and **61**.

When the angle indicators **33** and **24** are not in line with the 0° marks of scale **32** after adjusting, loosen the fastening screws of the angle indicators with the supplied Phillips screwdriver **35** and align the angle indicators alongside the 0° marks.

Setting the Standard 45° Bevel Angle (Leftward)

– Bring the power tool into the working position.
– Turn the saw table **18** to the 0° detent **17**. The lever **15** must be felt to engage in the detent.
– Pull the left fence extension **21** completely outward.
– Loosen the clamping lever **16** and tilt the tool arm leftward to the stop (45°) by the handle **7**.

Checking: (see figure T1)

– Set an angle gauge to 45° and place it on the saw table **18**.

The leg of the angle gauge must be flush with the saw blade **9** over the complete length.

Adjusting: (see figure T2)

– Screw set screw **63** (10 mm) in or out until the leg of the angle gauge is flush with the saw blade over the complete length.
– Retighten the clamping lever **16** again.

When the angle indicators **33** and **24** are not in line with the 45° marks of scale **32** after adjusting, firstly once more check the 0° setting for the bevel angle and the angle indicators. Then repeat the adjustment of the 45° bevel angle.

Adjusting the Clamping Force of Clamping Lever 16 (see figure T2)

The clamping force of clamping lever **16** can be readjusted.

Checking:

– The clamping force of the clamping lever must securely hold the position of the tool arm at any bevel angle.

Adjusting:

– Loosen the clamping lever **16**.
– Turn set screw **64** in anticlockwise direction with the supplied open-end spanner **3** (17 mm) to reduce the clamping force, or increase the clamping force by turning in clockwise direction.

– Adjust a vertical bevel angle, retighten clamping lever **16** and check if the desired clamping force has been reached.

Adjusting the Clamping Force of Clamp 5 (see figure U)

The clamping force of the handle clamp **5** can be readjusted.

Checking:

– The clamping force of the clamp must securely hold the handle in any of the 4 possible positions.

Adjusting:

– Open clamp **5**.
– Turn both set screws **65** in anticlockwise direction with the supplied Allen key **2** (1,5 mm) to reduce the clamping force, or increase the clamping force by turning in clockwise direction.
  Always adjust both set screws to the same height.
– Shut clamp **5** and check if the desired clamping force has been reached.

Aligning the Angle Indicator (Horizontally) (see figure V)

– Bring the power tool into the working position.
– Turn the saw table **18** to the 0° detent **17**. The lever **15** must be felt to engage in the detent.

Checking:
The angle indicator **66** must be in alignment with the 0° mark of the scale **40**.

Adjusting:

– Loosen the fastening screw of the angle indicator with the supplied Phillips screwdriver **35** and align the angle indicator alongside the 0° mark.
– Retighten the screw again.

Aligning the Fence

– Bring the machine into the transport position.
– Turn the saw table **18** to the 0° detent **17**. The lever **15** must be felt to engage in the detent.

Checking: (see figure W1)

– Set an angle gauge to 90° and place it on the saw table **18** between the fence **20** and the saw blade **9**.

The leg of the angle gauge must be flush with the fence over the complete length.

Adjusting: (see figure W2)

– Loosen the locking screws **22** on bothe sides of the fence extensions **21**.
  Loosen the setting screws **67** with the supplied Allen key **35** (4 mm).
– Remove the fence extensions.
– Loosen all Allen screws **68** with the supplied socket spanner **35** (14 mm).
– Turn the fence **20** until the angle gauge is flush over the complete length.
– Retighten the Allen screws **68**.
– Retighten the fence extensions. Tighten the setting screws **67** only to the extent, that the fence extensions can be moved easily.

Transport (see figure X)

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

– Loosen the locking screw **31** if tightened. Pull the tool arm completely to the front and tighten the locking screw again.
– Bring the machine into the transport position.
– Remove all accessories that cannot be mounted firmly to the power tool.
  If possible, place unused saw blades in an enclosed container for transport.
– Carry the power tool by the transport handles **30** and **4** or via the recessed grips **69** on the side of the saw table.

▶ **When transporting the power tool, use only the transport devices and never use the protective devices.**

▶ **The power tool should always be carried by two persons in order to avoid back injuries.**

Maintenance and Service

Maintenance and Cleaning

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

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.

Cleaning

For safe and proper working, always keep the power tool and its ventilation slots clean.

The retracting blade guard must always be able to move freely and retract automatically. Therefore, always keep the area around the retracting blade guard clean.

Remove dust and chips after each working procedure by blowing out with compressed air or with a brush.

Clean the roller **11** regularly.

Accessories

Quick-action clamp
Vertical 2 608 040 205
Horizontal 2 608 040 236

Insert plates 2 607 960 020

Dust bag set 2 605 411 211

Extension bars
(435 mm) 2 607 001 956

Saw blades for wood and plate materials, panels and strips/mouldings

Saw blade 305 x 30 mm,
60 teeth 2 608 640 441

After-sales Service and Customer Assistance

Our after-sales service responds to your questions concerning maintenance and repair of your product as well as spare parts. Exploded views and information on spare parts can also be found under:
www.bosch-pt.com
Our customer service representatives can answer your questions concerning possible applications and adjustment of products and accessories.

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Disposal

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

The plastic components are labelled for categorized recycling.

Only for EC countries:

Do not dispose of power tools into household waste!
According the European Guideline 2002/96/EC for Waste Electrical and Electronic Equipment and its implementation into national right, power tools that are no longer usable must be collected separately and disposed of in an environmentally correct manner.

Subject to change without notice.