BOSCH AdvancedMulti 18 Home and Garden Multi Tool Instruction Manual

Contents

BOSCH AdvancedMulti 18 Home and Garden Multi Tool

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 (cord-less) power tool.

Work area safety

- Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

Electrical safety

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid body contact with earthed or grounded sur-faces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suit-able for outdoor use reduces the risk of electric shock.
- If operating a power tool in a damp location is un-avoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

Personal safety

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- Use personal protective equipment. Always wear eye protection. Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal in-juries.
- 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 energizing 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 in-jury.
  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 jewelers. Keep your hair and clothing away from moving parts. Loose clothes, jeweler or long hair can be caught in moving parts.
- If devices are provided for the connection of dust ex-traction and collection facilities, ensure these are connected and properly used. Use of dust collection can re-duce 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 in-jury 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 de-signed.
- 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 re-move 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 ac-count the working conditions and the work to be per-formed. Use of the power tool for operations different from those intended could result in a hazardous situation.
- 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 behavior 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 information for multifunction tools

- Hold power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring. Cutting accessory contacting a “live” wire may make exposed metal parts of the power tool “live” and could give the operator an electric shock.
- Use clamps or another practical way to secure and support the workpiece to a stable platform. Holding the workpiece by hand or against your body leaves it un-stable and may lead to loss of control.
- Only use the power tool for dry sanding. Water entering a power tool will increase the risk of electric shock.
- Warning: Danger of fire! Avoid overheating the work-piece and the sander. Always empty the dust collector before taking a break from work. Sanding dust in the dust bag, microfilter, paper bag (or in the filter bag or vacuum cleaner filter) can spontaneously combust under certain conditions, for example if flying sparks are created when sanding metals. This risk is increased if the sanding dust is mixed with paint or polyurethane residue or with other chemical substances and if the workpiece is hot as a result of prolonged work.
- Keep hands away from the sawing area. Do not reach under the workpiece. Contact with the saw blade can lead to injuries.
- 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.

- Use suitable detectors to determine if there are hid-den supply lines or contact the local utility company for assistance. Contact with electric cables can cause fire and electric shock. Damaging gas lines can lead to explosion. Breaking water pipes causes property damage.
- Hold the power tool firmly with both hands and make sure you have a stable footing. The power tool can be more securely guided with both hands.
- When changing the application tool, wear protective gloves. Application tools can become hot when used for prolonged periods of time.
- Do not scrape any dampened materials (e.g. wallpaper) or on damp surfaces. Water entering a power tool increases the risk of electric shock.
- Do not treat the surface you will be working on with any fluids that contain solvents. Poisonous vapors may develop due to the materials heating up when being scraped.
- Take particular care when handling scrapers and blades. The application tools are very sharp. Danger of injury.
- In case of damage and improper use of the battery, vapors 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 vapors may irritate the respiratory system.
- Do not 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 with products from the manufacturer. 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.

Product Description and Specifications

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

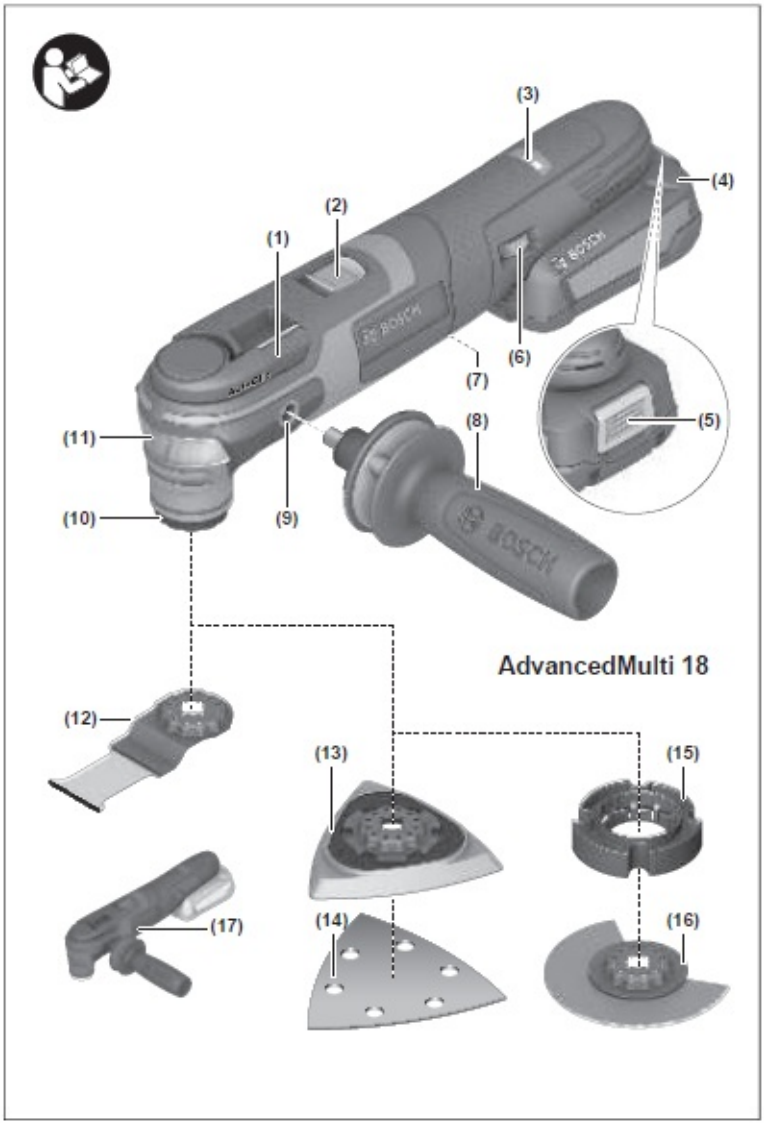
Please observe the illustrations at the beginning of this oper-ating manual.

Intended Use
The power tool is intended for sawing and cutting wood-based materials, plastic, plasterboard, non-ferrous metals and mounting elements (e.g. nails, clamps). It is also suit-able for working on soft wall tiles and for dry sanding and scraping of small areas. It is ideal for working close to edges and flush with surfaces.

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

1. AutoClic lever for unlocking tools
2. On/off switch
3. Battery charge indicator
4. Rechargeable battery)
5. Battery release button)
6. Orbital stroke rate preselection thumbwheel

7. Ventilation slots
8. Auxiliary handle (insulated gripping surface)
9. Thread for auxiliary handle
10. Tool holder
11. 180° light band
12. Plunge cut saw blade)
13. Sanding plate)
14. Sanding sheet)
15. Depth stop)
16. Segment saw blade
17. Handle (insulated gripping surface)
18. Extraction hose)
19. Extraction outlet)
20. Dust extraction)
21. Clamping lever for dust extraction system)
22. Dust extraction adapter)



a) Accessories shown or described are not included with the product as standard. You can find the complete selection of accessories in our accessories range.

Technical Data

Cordless multifunction tool		AdvancedMulti 18
Article number		3 603 A04 0..
Orbital stroke rate preselection		●
Constant electronic control		●
Soft start		●
AutoClic tool holder		●
Rated voltage	V=	18
No-load speed n_0	min^{-1}	10000–20000
Oscillation angle on left/right	°	1.4
Weight according to EPTA-Procedure 01:2014		
– without auxiliary handle	kg	1.5–1.8
– with auxiliary handle	kg	1.6–1.9
Recommended ambient temperature during charging	°C	0 to +35
Permitted ambient temperature during operation[A)] and during storage	°C	–15 to +50
Recommended rechargeable batteries		PBA 18V...W-.
Recommended battery chargers[B)]		AL 18...

- A) Limited performance at temperatures <0 °C
- B) The following chargers are not compatible with the PBA re-chargeable battery: AL 1814 CV, AL 1820 CV, AL 1860 CV

Noise/Vibration Information

Noise emission values determined according to EN 62841-2-4.
Typically, the A-weighted noise level of the power tool is: Sound pressure level 82 dB(A); sound power level 93 dB(A). Uncertainty K = 3 dB.
Wear hearing protection!

Working without the Auxiliary Handle
Vibration total values ah (triax vector sum) and uncertainty K determined according to EN 62841-2-4 (sanding), EN 62841-2-11 (sawing):
Sanding: ah=6 m/s2, K = 1,5 m/s2,
Cutting with plunge cut saw blade: ah = 16 m/s2, K = 1,5 m/s2,
Cutting with segmental saw blade: ah = 14 m/s2, K = 1,5 m/s2.

Working with the auxiliary handle
Vibration total values ah (triax vector sum) and uncertainty K determined according to EN 62841-2-4 (sanding), EN 62841-2-11 (sawing):
Sanding: ah = 6 m/s2, K = 1,5 m/s2,

Cutting with plunge cut saw blade: ah = 20 m/s2, K = 2,5 m/s2,
Cutting with segmental saw blade: ah = 16 m/s2, K = 1,5 m/s2.
The vibration level and noise emission value given in these instructions have been measured in accordance with a standardized measuring procedure and may be used to com-pare power tools. They may also be used for a preliminary estimation of vibration and noise emissions.
The stated vibration level and noise emission value represent 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 vibration level and noise emission value may differ. This may significantly increase the vibration and noise emissions over the total working period.
To estimate vibration and 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 may significantly reduce vibration and noise emissions over the total working period.
Implement additional safety measures to protect the operator from the effects of vibration, such as servicing the power tool and application tools, keeping their hands warm, and organizing workflows correctly.

Assembly

- Remove the battery from the power tool before carrying out work on the power tool (e.g. maintenance, changing tool, etc.). The battery should also be re-moved for transport and storage. There is risk of injury from unintentionally pressing the on/off switch.

Battery Charging

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

Note: The battery is supplied partially charged. To ensure full battery capacity, fully charge the battery in the charger before using your power tool for the first time.
The lithium-ion battery can be charged at any time without reducing its service life. Interrupting the charging process does not damage the battery.
The lithium-ion battery is protected against deep discharge by the “Electronic Cell Protection (ECP)”. When the battery is discharged, the power tool is switched off by means of a protective circuit: The application tool no longer rotates.

- Do not continue to press the On/Off switch after the power tool has automatically switched off. The battery can be damaged.

To remove the battery (4), press the battery release button (5) and pull the battery to the rear and out of the power tool. Do not use force to do this.

Battery charge indicator
The battery charge indicator (3) indicates the remaining battery capacity or an overload when the power tool is switched on.

LED	Capacity
Continuous lighting 3 x green	≥ 66%
Continuous lighting 2 x green	33–66%
Continuous lighting 1 x green	11–33%
Slowly flashing light 1 x green	≤ 10%

If the battery charge indicator (3) flashes red, the power tool is overloaded (see “Temperature-dependent overload protection”, page 24).

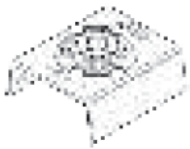
Changing the tool

- Wear protective gloves when changing tools. There is a risk of injury when touching the application tools.

Selecting an Application Tool
Please observe the application tools intended for your power tool.

Application tool		AdvancedMulti 18
STARLOCK		
STARLOCK PLUS		
STARLOCK MAX		

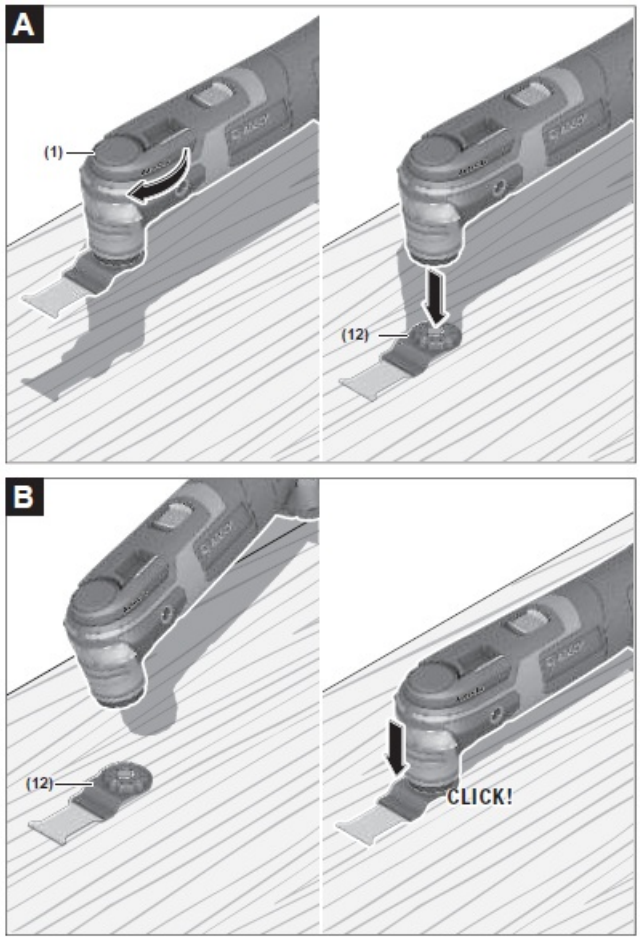
The following table shows examples of application tools. You can find additional application tools in Bosch’s extensive range of accessories.

Application tool		Material	Application
	Bi-metal segment saw blade	Wood-based materials, plastic, non-ferrous metals	Separating cuts and plunge saw cuts; including sawing close to edges, in corners and in difficult-to-reach areas; example: Shortening skirting boards that are already installed or door frames, plunge cuts when adapting floor panels
	Sanding plate for Delta series 93 mm sanding sheets	Depends on the sanding sheet	Sanding surfaces at edges, in corners or in difficult-to-reach areas; depending on the sanding sheet, e.g. for sanding wood, paint, varnish, stone; fleeces for cleaning and for texturing wood, removing rust from metal and for keying varnish, polishing felt for pre-polishing
	Profile sander	Wood, pipes/profiles, paint, varnish, filler, metal	Convenient and efficient sanding of profiles up to a diameter of 55 mm; red sanding sheets for sanding wood, pipes/profiles, varnish, filler and metal
	Bi-metal plunge cut saw blade for wood and metal	Softwood, soft plastics, plasterboard, thin-walled aluminium profiles and non-ferrous metal profiles, thin sheet metal, non-hardened nails and screws	Small separating cuts and plunge cuts; example: Cutting a recess for sockets, cutting a copper pipe so that it is flush with a surface, making plunge cuts in plasterboard Delicate adaptation work in wood; example: Sawing recesses for locks and fittings
	TC-Riff Delta plate	Mortar, concrete residue, wood, abrasive materials	Rasping and sanding on a hard surface; example: Removing mortar or tile adhesive (e.g. when replacing damaged tiles), removing carpet adhesive residue
	TC-Riff grout and mortar remover	Mortar, joints, epoxy resin, fibreglass-reinforced plastics, abrasive materials	Routing and cutting of joint material and tile material, as well as rasping and sanding on a hard surface; example: Removing tile adhesive and joint mortar
	HCS multi blade	Roofing felt, carpets, artificial turf, cardboard, PVC flooring	Fast and precise cutting of soft material and flexible abrasive materials; example: Cutting carpets, cardboard, PVC flooring, roofing felt, etc.
	Scraper, fixed	Carpets, mortar, concrete, tile adhesive	Scraping on a hard surface; example: Removing mortar, tile adhesive, concrete residue and carpet adhesive residue
	Scraper, flexible	Carpet adhesive, paint residue, silicone	Flexible scraping on a soft surface; example: Removing silicone joints, carpet adhesive residue and paint residue
	Bi-metal segment serrated blade	Insulation material, insulation boards, floor panels, impact sound insulation boards, cardboard, carpets, rubber, leather	Precise cutting of soft materials; example: Cutting insulation boards to size, cutting protruding insulation material to length so that it is flush with the surface

	HCS plunge cut saw blade for wood	Wood-based materials, soft plastics	Separating cuts and plunge saw cuts; including sawing close to edges, in corners and in difficult-to-reach areas; example: Thin plunge cut in solid wood for installing a ventilation grille
	Bi-metal plunge cut saw blade for hard-wood	Hardwood, laminated boards	Plunge cuts in laminated boards or hardwood; example: Installation of skylights
	TC plunge cut saw blade, metal	Metal, extremely abrasive materials, fibreglass, plas-terboard, cement-bonded fibreboard	Plunge cuts in extremely abrasive materials or metal; example: Cutting kitchen front covers, easy cutting through hardened screws, nails and stainless steel
	Bi-metal plunge cut saw blade for wood and metal	Softwood, hardwood, veneered boards, plastic-coated boards, non-hardened nails and screws	Plunge cuts in laminated boards or hardwood; example: Shortening door frames, recesses for a shelf
	TC-Riff segment saw blade	Cement joints, soft wall tiles, fibreglass-reinforced plastics, porous concrete	Making cuts near edges, in corners or in difficult-to-reach areas; example: Removing joints between wall tiles for improve-ment work, cutting recesses in tiles, plasterboard or plastics
	Diamond-Riff seg-ment saw blade	Cement joints, soft wall tiles, epoxy resin, fibre-glass-reinforced plastics	Precise routing and cutting of tile/joint material, epoxy resin and fibreglass-reinforced plastics; example: Producing small cut-outs in soft wall tiles and routing recesses in fibreglass-reinforced plastic
	TC-Riff sanding fin-ger	Wood, paint	Sanding of wood or paint in hard-to-reach areas without sanding paper; example: Sanding off paint between window shutter slats, sanding wooden flooring in corners
	TC-Riff plunge cut saw blade	Fibreglass, mortar, wood	Plunge cuts in extremely abrasive materials; example: Routing of thin mosaic tiles
	HCS universal joint cutter	Expansion joints, window putty, insulation materials (rock wool)	Cutting soft materials; example: Cutting silicone expansion joints or window putty

Fitting/changing the application tool (AutoClic) (see figures A–B)
Remove the application tool if one has already been fitted. To do so, open the AutoClic lever (1) all the way. The application tool/accessory will be ejected.
Place the required application tool (e.g. plunge cut saw blade (12)) on a level surface so that the depressed center is face down (see figure on the graphics page; you should be able to read the text on the application tool from above). Turn the application tool to a position which is convenient for the job at hand. Press the power tool onto the application tool at the required angle until it audibly engages.

- Check that the application tool is seated securely. Application tools that are attached incorrectly or are not securely fixed in place may come loose during operation, thereby putting you at risk.



Fitting and Adjusting the Depth Stop
The depth stop (15) can be used when working with segment saw blades.
Remove the application tool if one has already been fitted.
Slide the depth stop (15) over the tool holder (10) and onto the collar of the power tool as far as it will go, with the la-belled side facing upwards.

The depth stop is intended for the following cutting depths:

- With segment saw blades ACZ 85 .. with a diameter of 85 mm: Cutting depths 8 mm, 10 mm, 12 mm and 14 mm (information on the depth stop in a larger font size and without brackets).
- With segment saw blades ACZ 100 .. with a diameter of 100 mm: Cutting depths 14 mm, 16 mm, 18 mm and 20 mm (information on the depth stop in a smaller font size and in brackets).

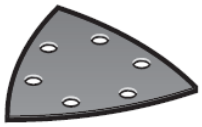
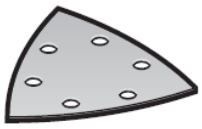
Insert the appropriate segment saw blade for the desired cutting depth. Slide the depth stop (15) from the tool holder (10) in the direction of the application tool until you can rotate it freely. Rotate the depth stop (15) so that the desired cutting depth is above the section of the saw blade that will be used to saw. Slide the depth stop (15) onto the collar of the power tool once again as far as it will go.
Remove the depth stop (15) for all other cutting depths and for working with other application tools. To do this, remove the application tool and pull the depth stop away from the collar.

Fitting the Auxiliary Handle (accessory)
The low-vibration auxiliary handle enables the tool to be used safely and more comfortably.
Screw the auxiliary handle into the thread (9) on the left or right of the machine head depending on how you are working.

- Do not continue to use the power tool if the auxiliary handle is damaged. Do not make any alterations to the

auxiliary handle.

Choosing the Sanding Sheet
Different sanding sheets are available, depending on the material you are working with and the required surface removal rate:

Sanding sheet	Material	Application	Grit	
 Red quality	– All wood and wood-based materials (e.g. hardwood, softwood, chipboard, construction boards) – Metal materials	For pre-sanding, e.g. of rough and uneven beams and boards	Coarse	40 60
		For surface sanding and levelling of slight irregularities	Medium	80 100 120
		For finish-sanding and fine sanding of wood	Fine	180 240 320 400
 White quality	– Paint – Varnish – Filler – Bodyfiller	For sanding down paint	Coarse	40 60
		For sanding undercoats (e.g. removing brushstrokes, paint drips and paint runs)	Medium	80 100 120
		For final sanding of primers prior to painting	Fine	180 240 320

Attaching/changing the sanding sheet on the sanding plate
The sanding plate (13) is fitted with a hook-and-loop fastening, allowing sanding sheets with a hook-and-loop backing to be secured quickly and easily.
Tap the hook-and-loop fastening of the sanding plate (13) before fitting the sanding sheet (14) to facilitate maximum adhesion.
Position the sanding sheet (14) so that it is flush with one side of the sanding plate (13), then place the sanding sheet on the sanding plate and press it on firmly.
To ensure optimum dust extraction, make sure that the punched holes in the sanding sheet are aligned with the drilled holes in the sanding plate.
To remove the sanding sheet (14), take hold of it by an edge and pull it away from the sanding plate (13).
You can use all sanding sheets, polishing and cleaning fleeces from the Delta 93 mm series in the Bosch range of accessories.
Sanding accessories such as fleece/polishing felt are attached to the sanding plate in the same way.

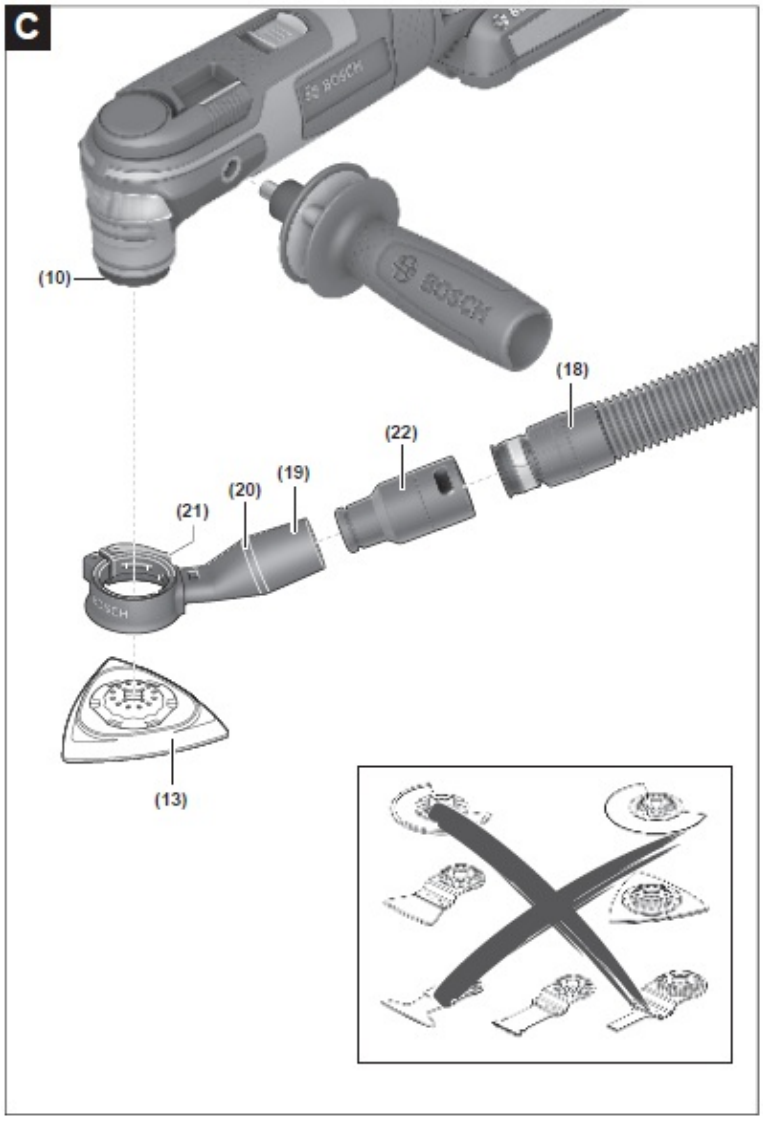
Dust/Chip Extraction
The dust from materials such as lead paint, some types of wood, minerals and metal can be harmful to human health. Touching or breathing in this dust can trigger allergic reactions and/or cause respiratory illnesses in the user or in people in the near vicinity.
Certain dusts, such as oak or beech dust, are classified as carcinogenic, especially in conjunction with wood treatment additives (chromate, wood preservative). Materials containing asbestos may only be machined by specialists.

- Use a dust extraction system that is suitable for the material wherever possible.
- 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.

Connecting the dust extraction system (see figure C)
The dust extraction system (20) is only designed for use with the sanding plate (13); it serves no purpose when used together with other application tools.

Always connect a dust extraction system for sanding. Remove the application tool and the depth stop (15) for fitting the dust extraction system (20) (accessory).
Slide the dust extraction system (20) as far as it will go over the tool holder (10) onto the collar of the power tool. Turn the dust extraction system to the required position (not directly under the power tool). Push the clamping lever (21) shut to fix the dust extraction system in position.
Push the dust extraction adapter (22) (accessory) onto an extraction hose (18) (accessory) until you hear it click into place. Connect the dust extraction adapter (22) to the ex-traction outlet (19) and the extraction hose (18) to a dust extractor (accessory).
You will find an overview of how to connect various dust ex-tractors at the end of these operating instructions.
The dust extractor must be suitable for the material being worked.
When extracting dry dust that is especially detrimental to health or carcinogenic, use a special dust extractor.



Operation

Starting Operation

Inserting the battery
Note: The use of batteries unsuitable for your power tool can lead to malfunctions or damage to the power tool.
Insert the charged battery (4) into the base of the power tool until you feel it engage and it is securely locked in place.

Switching On/Off

- Make sure that you are able to press the On/Off switch without releasing the handle.

To switch on the power tool, slide the on/off switch (2) for-ward so that “I” appears on the switch.
The electronic soft start limits the torque when the power tool is switched on and increases the service life of the motor.
The Constant Electronic keeps the orbital stroke rate at no load and under load virtually consistent, guaranteeing uniform performance.
To switch off the power tool, slide the on/off switch (2) backwards so that “0” appears on the switch.
Note: If the power tool shuts down automatically because the battery is flat or overheated, switch the power tool off using the on/off switch (2).
Charge the battery or let it cool down before switching the power tool on again. Failure to do so can damage the battery.
The 180° light band (11) improves visibility in the immediate work area. It is automatically switched on and off with the power tool.

Preselecting the orbital stroke rate
You can even preselect the required orbital stroke rate during operation using the orbital stroke rate preselection thumbwheel (6).
The required orbital stroke rate is dependent on the material and the work conditions and can be determined using practical tests.
Orbital stroke rate level “6” is recommended for sawing, cut-ting and sanding harder materials, such as wood or metal; orbital stroke rate level “4” is recommended for softer materials, such as plastic.

Working Advice

- Remove the battery from the power tool before carrying out work on the power tool (e.g. maintenance, changing tool, etc.). The battery should also be re-moved for transport and storage. There is risk of injury from unintentionally pressing the on/off switch.
- Always wait until the power tool has come to a complete stop before placing it down.

Note: Do not keep the ventilation slots (7) on the power tool closed when working as this will reduce the service life of the power tool.

Operating principle
The oscillating drive causes the application tool to oscillate back and forth by 2.8° up to 20000 times per minute. This enables precise work in the tightest of spaces.

 Use a consistent, low contact pressure when performing work; otherwise, the performance will be impaired and the application tool may jam.

 While working, move the power tool back and forth to prevent the application tool overheating and jamming.

Sawing

- Use only undamaged saw blades that are in perfect condition. Bent or dull saw blades can break, negatively influence the cut, or lead to kickback.
- When sawing lightweight materials, take into account the statutory provisions and recommendations of the material manufacturers.
- Plunge cuts may only be applied to soft materials, such as wood, gypsum board, etc.

Before using HCS saw blades to saw into wood, chipboard, building materials, etc., check these saw blades for foreign objects, such as nails, screws, etc. Remove the foreign ob-jects as required or use bi-metal saw blades.

Cutting
Note: When cutting wall tiles, please bear in mind that the application tools are subject to high wear if used for extended periods.

Sanding
The material removal rate and sanding result are primarily determined by the choice of sanding sheet, the preselected orbital stroke rate level and the contact pressure.
Only immaculate sanding sheets achieve good sanding performance and make the power tool last longer.
Be sure to apply consistent contact pressure in order to in-crease the lifetime of the sanding sheets.
Excessively increasing the contact pressure will not lead to increased sanding performance, rather it will cause more severe wear of the power tool and of the sanding sheet.
To sand corners, edges and hard-to-reach areas accurately, you can also work with the tips alone or with an edge of the sanding plate.
The sanding sheet may heat up significantly when used to sand specific points rather than entire surfaces.
Reduce the orbital stroke rate and contact pressure and allow the sanding sheet to cool down at regular intervals.
Do not use a sanding sheet for other materials after it has been used to work on metal.
Use only original Bosch-sanding accessories.
Always connect a dust extraction system for sanding.

Scraping
Select a high orbital stroke rate level for scraping.
Work on a soft surface (e.g. wood) at a flat angle and with low contact pressure. Failure to do so may cause the scraper to cut into the surface underneath.
Temperature-dependent overload protection
In normal conditions of use, the power tool cannot be over-loaded. In the event of excessive load or temperatures out-side of the permitted battery temperature range, the power tool switches off. Switch the power tool off, allow the battery to cool down, then switch the power tool back on.
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.

Maintenance and Service

Maintenance and Cleaning

- Remove the battery from the power tool before carrying out work on the power tool (e.g. maintenance, changing tool, etc.). The battery should also be re-moved for transport and storage. There is risk of injury from unintentionally pressing the on/off switch.
- To ensure safe and efficient operation, always keep the power tool and the ventilation slots clean.

Regularly clean Riff application tools (accessories) using a wire brush.

After-Sales Service and Application Service
Our after-sales service responds to your questions concerning maintenance and repair of your product as well as spare parts. You can find explosion drawings and information on spare parts at: **www.bosch-pt.com**
The Bosch product use advice team will be happy to help you with any questions about our products and their accessories.
In all correspondence and spare parts orders, please always include the 10-digit article number given on the nameplate of the product.

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E-Mail: **boschservicecentre@bosch.com**

You can find further service addresses at:
www.bosch-pt.com/serviceaddresses

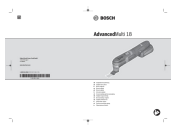
Transport
The recommended lithium-ion batteries are subject to legislation on the transport of dangerous goods. The user can transport the batteries by road without further requirements.
When shipping by third parties (e.g.: by air transport or for-warding agency), special requirements on packaging and la-belling must be observed. For preparation of the item being shipped, consulting an expert for hazardous material is required.
Dispatch battery packs only when the housing is undam-aged. Tape or mask off open contacts and pack up the battery in such a manner that it cannot move around in the packaging. Please also observe the possibility of more de-tailed national regulations.

Disposal
The power tool, accessories and packaging should be re-cycled in an environmentally friendly manner.
Do not dispose of power tools along with household waste.

Only for EU countries:
According to the European Directive 2012/19/EU on Waste Electrical and Electronic Equipment and its implementation into national law, power tools that are no longer usable must be collected separately and disposed of in an environment-ally friendly manner.
If disposed incorrectly, waste electrical and electronic equipment may have harmful effects on the environment and human health, due to the potential presence of hazardous substances.

Only for United Kingdom:
According to Waste Electrical and Electronic Equipment Regulations 2013 (2013/3113), power tools that are no longer usable must be collected separately and disposed of in an environmentally friendly manner.

Documents / Resources

	BOSCH AdvancedMulti 18 Home and Garden Multi Tool [pdf] Instruction Manual AdvancedMulti 18 Home and Garden Multi Tool, AdvancedMulti 18, Home and Garden Multi Tool, Garden Multi Tool

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