GRAPHITE 58G013 Cordless Multi Tool Instruction Manual

58G013 Cordless Multi Tool
Instruction Manual

CORDLESS MULTI TOOL

Contents

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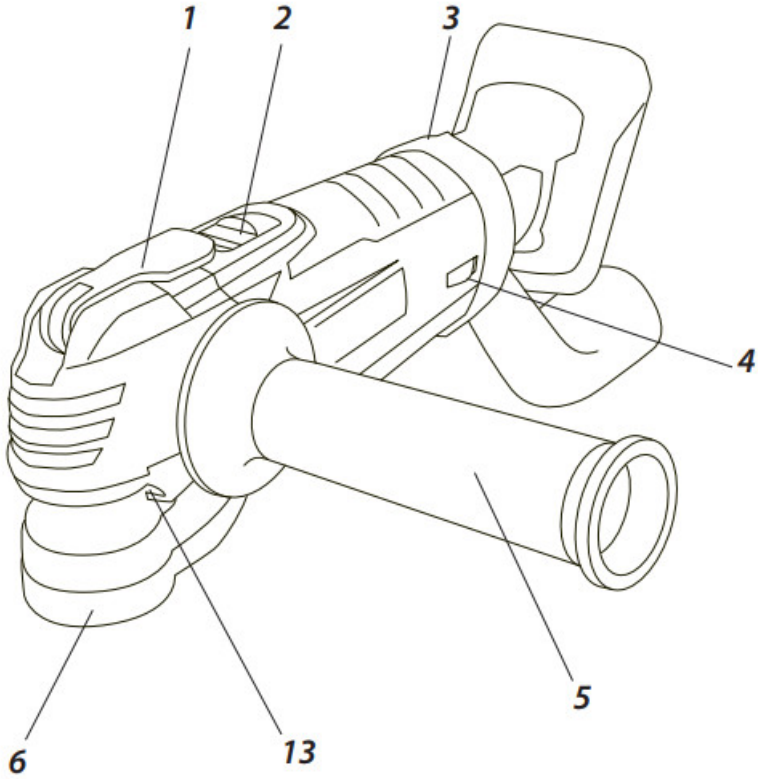
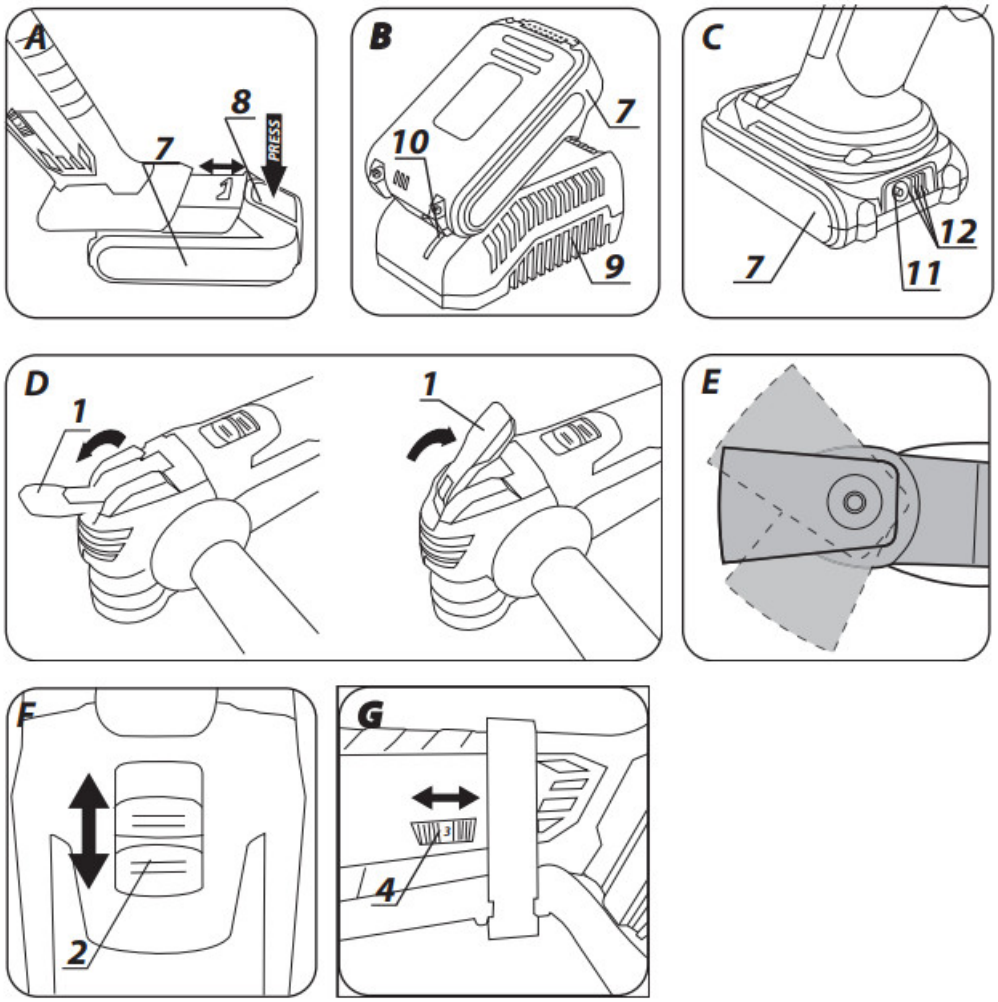




TRANSLATION OF THE ORIGINAL INSTRUCTIONS CORDLESS MULTI TOOL 58G013

CAUTION: BEFORE USING THE POWER TOOL READ THIS MANUAL CAREFULLY AND KEEP IT FOR FUTURE REFERENCE.

DETAILED SAFETY REGULATIONS

DETAIL SAFETY RULES CORDLESS MULTI TOOL

- During operation hold the tool firmly in closed hand.
- efore switching the tool on make sure it does not touch processed material.
- efore cutting foor, wall or other surface make sure the cut area is free from gas or electric installation. Cutting a live wire may cause electric shock and cutting a gas pipe may cause explosion.
- not touch moving parts ofthe tool.
- not put the tool aside before it stops completely.
- Hold the tool frmly in your hand before switching it on. Do not touch blade and processed material just after the work has been fnished, the pieces may be very hot and may cause burns.
- To replace blade or sanding paper, frst switch the tool of with the switch and wait until it stops working, then disconnect the tool from mains socket.
- Prior to operation make sure that there is enough space under processed material to avoid table or foor damage with the blade.
- Use anti-dust mask. Dust produced during operation is harmful to health.
- Do not eat, drink or smoke in a room, where paint with lead compounds is removed with this tool. There should

be no bystanders in the room. Contact with or inhalation of dusts with lead compounds may be harmful to health.

- Before sanding connect dust extraction system to the tool.
- The tool is not designed for wet operation.
- When you experience unusual behaviour of the tool, see smoke or hear strange noises, immediately switch of the tool and remove the battery.
- To ensure proper cooling during tool operation keep the ventilation holes unobstructed.

SAFETY INSTRUCTIONS FOR BATTERY

- In case of battery damage and improper use it may produce gas. Ventilate room and seek medical attention in case of medical symptoms. Gas can damage respiratory tract.
- Improper operation conditions may lead to battery electrolyte leak, avoid contact with the substance. In case of accidental contact, fush the electrolyte abundantly with water. In case of contact with eyes, additionally seek medical attention. Leaked electrolyte may cause eye irritation or burns.
- Do not disassemble the battery – there is a risk of short circuiting.
- Do not use power tool battery in rain.
- Always keep the battery away from sources of heat. Do not leave the battery for a long time in high temperature (in direct sunlight, in proximity of heaters and wherever the temperature exceeds 50°C).

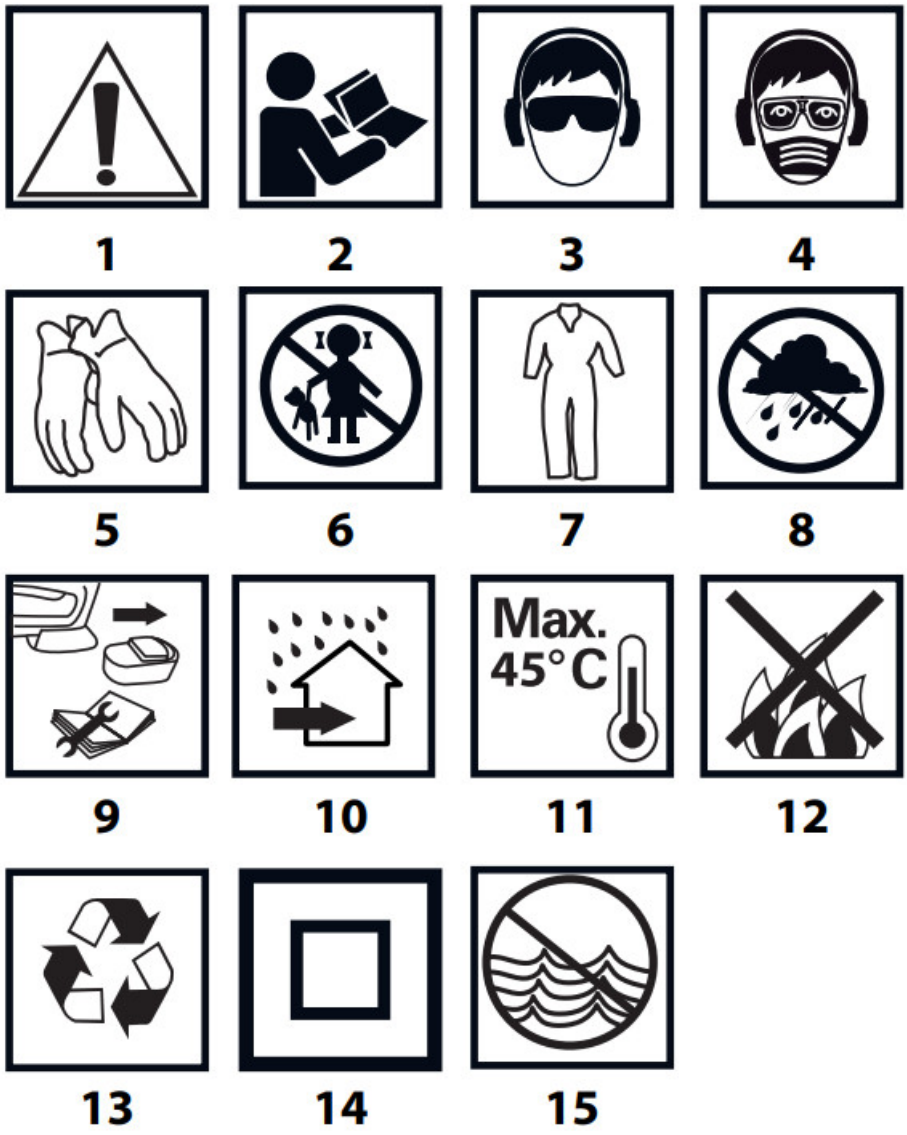
SAFETY INSTRUCTIONS FOR BATTERY CHARGER

- This equipment is not intended for use by persons with restricted physical, sensory or mental capabilities (including children)or persons who have no experience or are unfamiliar with the equipment, unless the use is supervised or carried out in accordance with equipment use instructions handed over by persons responsible for their safety.
- Pay attention to children so they don’t play with the equipment.
- Do not expose the charger to humidity or water. Ingress of water into the charger increases risk of electric shock. Use the charger only in dry rooms.
- Disconnect the charger from power supply before starting any maintenance or cleaning.
- Do not use the charger when placed on fammable surface (e.g. paper, textiles) or in proximity of fammable substance. Greater charger temperature when charging increases risk of fire.
- Check condition of the charger, cable and plug before each use. Do not use the charger if any damage is found. Do not try to disassemble the charger. All repairs should be made at an authorized service workshop. Improper charger assembly may cause electric shock or fire.
- Children or persons who are physically, emotionally or mentally disabled and other persons, whose experience or knowledge is insufcient to use the charger while following all safety rules should not use the charger without supervision of person esponsible for their safety. Otherwise there is a risk of improper use and injuries in consequence.
- When the charger is not in use, it should be disconnected from the mains network.

CAUTION! This device is designed to operate indoors.
The design is assumed to be safe, protection measures and additional safety systems are used, nevertheless there is always a small risk of injuries at work.
Li-Ion batteries may leak, set on fire or explode when heated to high temperature or short-circuited. Do not store

the batteries in a car in hot and sunny days. Do not open the battery. Li-Ion batteries contain electronic protection devices that, if damaged, may cause fire or explosion of the battery.

Explanation of used symbols



1. **CAUTION!** Use precaution measures.
2. Read instruction manual, observe warnings and safety conditions therein!
3. Use personal protection equipment (protective goggles, earmuf protectors).
4. Use dust mask!
5. Use protective gloves.
6. Keep the tool away from children.
7. Use protective clothes.
8. Protect the tool from moisture.
9. Remove the battery from the device before starting any adjustments or cleaning related tasks.
10. This device is designed to operate indoors.
11. Maximum permissible cell temperature 45°C.
12. Do not throw cells into fire.
13. Recycling.
14. Charger protection class 2.
15. Do not throw cells into water.

CONSTRUCTION AND USE

The multi tool is a hand held battery-powered tool. The drive consists of DC commutator motor with permanent magnets, whose rotational movement is transformed to oscillations. Various working tools available for the tool allow for use in various types of tasks. This type of power tool is widely used for: cutting and sawing wood, wood-based materials, plastics, non-ferrous metals and joining parts (nails, bolts etc.), all using proper working tools.

It can also be used to process soft ceramic tiles, grinding and dry scraping small surfaces. Possibility of processing abovementioned materials in hard to reach areas and close to edges is a great advantage of the tool.

Range of use covers the following tasks: small model making, locksmith, woodworking and any work from the scope of individual, amateur activities (tinkering).

 Use the power tool in accordance with the manufacturer's instructions only. Use the power tool only with original equipment.

DESCRIPTION OF DRAWING PAGES

Below enumeration refers to the device elements depicted on the drawing pages of this manual.

1. Lever for quick working tool installation
2. Switch
3. Clamp
4. Wheel for rotational speed control
5. Additional handle
6. Dust extraction add-on
7. Battery
8. Battery lock button
9. Charger
10. LED diodes
11. Button for battery level indication
12. Battery level indicator (LED)
13. Illumination

Differences may appear between the product and drawing.

MEANING OF SYMBOLS

	CAUTION
	WARNING
	ASSEMBLY / SETTINGS
	INFORMATION

EQUIPMENT AND ACCESSORIES

1. Working attachment – 1 pce

PREPARATION FOR OPERATION

REMOVING AND INSERTING THE BATTERY

- Push the battery lock button (8) and slide out the battery (7) (fig. A).
- Insert charged battery (7) into the handle holder, you should hear when the battery lock button (8) snaps.

BATTERY CHARGING

The device is supplied with partially charged battery. The battery should be charged in ambient temperature between 4°C and 40°C.
New battery, or one that has not been used for a long time, will reach full eficiency after approximately 3 to 5 charge/discharge cycles.

- Remove the battery (7) from the device (fig. A).
- Connect the charger (9) to mains socket (230 V AC).
- Slide the battery (7) into the charger (9) (fig. B). Ensure the battery is properly fitted (pushed to the end).

When the charger is connected to a mains socket (230 V AC), the green diode (10) on the charger turns on to indicate connected supply.
When the battery (7) is placed in the charger (9), the red diode (10) on the charger turns on to indicate that the charging is in progress.
At the same time green diodes (12) of the battery level indication are fiashing in different confgurations, see description below.

- All diodes are flashing – the battery is empty and requires charging.
- 2 diodes are flashing – the battery is partially discharged.
- 1 diode is flashing – the battery level is high.

Once the battery is charged, the diode (10) on the charger lights green, and all battery level diodes (12) light continuously. After some time (approx. 15 s) the battery level indication diodes (12) turn off.

Do not charge the battery for more than 8 hours. Exceeding this time limit may cause damage to battery cells. The charger does not turn off automatically when the battery is full. Green diode on the charger will remain on. Battery level indication diodes turn of after some time. Disconnect power supply before removing the battery from the charger socket. Avoid consecutive short chargings. Do not charge the battery after short use of the tool. Signif cant decrease of the period between chargings indicates
the battery is worn out and should be replaced.
Batteries heat up when charging. Do not operate just after charging – wait for the battery to cool down to room temperature.
It will prevent battery damage.

BATTERY LEVEL INDICATION

The battery is equipped with signalisation of the battery level (3 LED diodes) (12). To check battery level status, press the button for battery level indication (11) (fig. C). When all diodes are lit, the battery level is high. When 2 diodes are on, the battery is partially discharged. When only one diode is lit, the battery is discharged and must be recharged.

INSTALLATION OF ADDITIONAL HANDLE

Due to safety reasons always use additional handle when operating the power tool.

Additional handle (5) can be installed in one of the holes on the tool head. We recommend using the power tool with the additional handle. When you hold the tool with your both hands during operation (using also the additional handle) you can have greater control over the kick back forces and counter torque on start up. This reduces risk of injuries at kick back.

SELECTION OF WORKING TOOL

With this cordless multi tool you can use working tools compatible with universal, open attachment system (with fiholes). Holes, 2 mm in diameter, are located around 10 mm radius circle every 30° (some holes can also form an open cut out).

Below table presents examples of various working tools.

	Name	**Type of material**	**Intended use**	**Example**
	MSS blade for metal	Metal (e.g. nails, bolts, s mall sec- tions), nonferro us metals	Small dividing and plung e cutting.	Cutting narrow secti ons short, cutting joi ning elements, e.g. clamps.
	Half – r o – und HCS wheel for wood	Wood, wood based mate rials, plastics	Dividing and plun- ge cu tting in cor- ners and har d to reach areas, near s urfaces.	Narrow plunge cuts i n solid wood, e.g. fo r air grates.
	HCS blade for wood	Wood, wood based mate rials, plastics	Dividing and plun- ge cu tting in cor- ners and har d to reach areas, near s urfaces.	Cut outs in fur niture boards, cutting cove bases short, plunge cutting (or fitting floo r panels.

	Half-ro. and wh eel with tung- st en grit	Cement joints, soft ceram ic tiles, hard plastics and other materials.	Cutting short and cutting off close to edges, in cor ners and hardly acces- sible places.	Removal of joint, cut ting holes in ceramic tiles and pl astics.
	Delta can- ding pad	Wood, wood-based mate rials, abrasive materials.	Sanding in hard to reach areas and in corn ers on a hard substrate.	Removal of mortar and glue for ce- ram ic tiles, sanding soli d wood, poli- shing.
	Stiff scra• per	Linings, floors, cera- mic t iles.	Scraping soft ma- terials on a hard substrate.	Removal of mortar r esi- dues, glue for li ning or ceramic tiles .

INSTALLATION OF WORKING TOOLS

- Pull the lever for quick working tool installation (1) forward (fig. D).
- Slide working tool between two plates of the tool holder, make sure the holes are matched with pins of the upper washer.
- In order to allow operation in the position that is most comfortable and safe for the operator, you can set up the working tool in the tool holder in a position of your choice, provided that the upper plate pins are matched with the holes (fig. E).
- Working tool should be installed with bend pointing down.
- Lower the lever for quick tool installation (1) to install the working tool in selected position (fig. D).

Check that the tool is installed properly. Improperly or inaccurately installed working tools can slip during operation and cause risk for the user.

DUST EXTRACTION

Dust of some materials may be hazardous to health, like paint coatings with lead additives, some types of wood e.g. oak or beech or materials with asbestos. There fore, we recommend use of external dust extraction systems, good workplace ventilation and use of dust-mask with particle filter.

The tool is equipped with dust extraction add-on, which should be connected to external dust extractor, e.g. vacuum cleaner designed for the type of produced dust.

REMOVING THE DUST EXTRACTION ADD-ON

- Remove working tool if already installed.
- Disengage the clamp (3) and remove the dust extraction add-on (6).

Installation of the dust extraction add-on (6) is similar to deinstallation, only the sequence of actions is reversed.

OPERATION / SETTINGS

Check condition of the working tools before using the power tool.
Do not use tools with dents, cracks or other damages. Replace worn out tools with new ones before operation. When the work is finished, always turn the device of and wait until the working tool comes to complete stop. Only then you can put the device away. Do not brake the working tool when it's moving by pressing it against processed material.

SWITCHING ON / OFF

Hold the device with both hands when starting up and during operation.
Switching on – slide the switch (2) forward to position I.
Switching off– slide the switch (2) backward to position O (fig. F).

Each time you press the switch button (2) two LED diodes (13) turn on. They are located on both sides of the head and illuminate the work place.

ROTATIONAL SPEED CONTROL

Wheel for rotational speed control (4) is located at the bottom part of the main handle (fig. G). Control range is 1 to 6. Rotational speed can be adjusted to the user's needs.

Do not cover holes for motor ventilation in the tool body.

PRINCIPLES OF OPERATION

Oscillation frequency 5 000 – 20 000 per minute at 3° angle allows to work precisely in small areas and corners with the power tool.
OSCILLATION FREQUENCY 5 000 – 20 000 PER MINUTE AT 3° ANGLE ALLOWS TO WORK PRECISELY IN SMALL AREAS AND SAWING AND CUTTING

Use only undamaged working tools in good technical condition.
When sawing or cutting wood, fibre board, wood-based materials etc. make sure they do not contain foreign objects like nails, bolts etc. before starting the task. Remove foreign objects or use proper blade for removal. You can make plunge cuts only in soft materials like wood, gypsum boards and alike. Cutting ceramic tiles causes faster wear of working tool.

OPERATION AND MAINTENANCE

Remove the battery from the device before commencing any activities related to installation, adjustment, repair or maintenance.

MAINTENANCE AND STORAGE

- Cleaning the device after each use is recommended.

- Do not use water or any other liquid for cleaning.
- Clean the device with a dry cloth or blow through with compressed air at low pressure.
- Do not use any cleaning agents or solvents, since they may damage plastic parts.
- Clean ventilation holes in the motor casing regularly to prevent device overheating.
- Always store the tool in a dry place, beyond reach of children.
- Store the device with the battery removed.

 All defects should be repaired by service workshop authorized by the manufacturer.

TECHNICAL PARAMETERS

RATED PARAMETERS

Cordless Multi Tool 58G013	
Parameter	**Value**
Supply voltage	18 V DC
Idle oscillation speed	5000-20000 rpm
Oscillation angle	3°
Working tools attachment system	tool free
Protection class	III
Weight	1,8 kg
Year of production	2019
58G013 defines type and indication of the device	

Graphite Energy+ System Battery		
Parameter	Value	
Battery	58G001	58G004
Battery voltage	18 V DC	18 V DC
Battery type	Li-Ion	Li-Ion
Battery capacity	2000 mAh	4000 mAh
Ambient temperature range	4°C – 40°C	4°C – 40°C
Charging time for charger 58G002	1 h	2 h
Weight	0,400 kg	0,650 kg
Year of production	2019	2019

Graphite Energy+ System Charger	
Parameter	Value
Charger type	58G002
Supply voltage	230 V AC
Power supply frequency	50 Hz
Charging voltage	22 V DC
Max. charging current	2300 mA
Ambient temperature range	4°C – 40°C
Charging time of the battery 58G001	1 h
Charging time of the battery 58G004	2 h
Protection class	II
Weight	0,300 kg
Year of production	2019

DANE DOTYCZĄCE HAŁASU I DRGAŃ

Sound pressure (sanding)	LpA= 90,8 dB(A) K= 3 dB(A)
Sound pressure (sawing)	LpA= 96,8 dB(A) K= 3 dB(A)
Sound pressure (scraping)	LpA= 94,4 dB(A) K= 3 dB(A)
Sound power (sanding)	LwA= 101,8 dB(A) K= 3 dB(A)
Sound power (sawing)	Lw = 107,8 dB(A) K= 3 dB(A) A
Sound power (scraping)	Lw = 105,4 dB(A) K= 3 dB(A) A
Vibration acceleration (sanding – main handle)	ah= 8,813 m/s2 K= 1,5 m/s2

Vibration acceleration (sanding – additional handle)	ah= 12,161 m/s2 K= 1,5 m/s2
Vibration acceleration (sawing – main handle)	ah= 7,924 m/s2K= 1,5 m/s2
Vibration acceleration (sawing – additional handle)	ah= 13,089 m/s2K= 1,5 m/s2
Vibration acceleration (scraping – main handle)	ah= 11,925 m/s2K= 1,5 m/s2
Vibration acceleration (scraping – additional handle)	ah= 15,258 m/s2K= 1,5 m/s2

Noise and vibration information

Noise produced by the device is deffned with: level of produced sound pressure LpA and level of sound power LwA (where K is measurement uncertainty). Vibrations produced by the device are deffned with vibration acceleration value ah (where K is measurement uncertainty).

Sound pressure LpA , sound power LwA and vibration acceleration ah specified in this manual have been measured in accordance with EN 60745-1. Specified vibration level ah can be used to compare tools and for initial evaluation of exposition to vibrations.

Specified vibration level is representative for main applications of the device. When the device is used for other purposes or with ditterent working tools, the vibration level may change. Insufcient or too rare maintenance may increase vibration level. The abovementioned factors may lead to higher exposure to vibrations during whole working time.
To precisely deffne exposure to vibrations, include periods when the device is switched of and when it is switched on but not used for working. Once all factors have been carefully considered, total exposition to vibrations may be signifcantly lower.
To protect the user from results of exposure to vibrations, use additional safety measures such as: device and working tool periodic maintenance, proper hand temperature conditions, good work organisation.

ENVIRONMENTAL PROTECTION

	Electrical equipment must not be disposed off with household waste and, instead, should be utiliz uct vendor or the local authorities. Waste electrical and electronic equipment contains substance onstitutes a potential hazard to the environment and to human health.
 **Li-Ion**	Storage batteries/batteries must not be disposed with domestic waste, put in a fire or into the wat ce with the current directive pertaining to disposal of storage batteries and batteries.

* Right to introduce changes is reserved.
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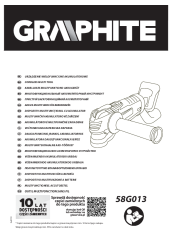
Documents / Resources

	GRAPHITE 58G013 Cordless Multi Tool [pdf] Instruction Manual 58G013, 58G013 Cordless Multi Tool, Cordless Multi Tool, Multi Tool

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