

TOLSEN X20

97126

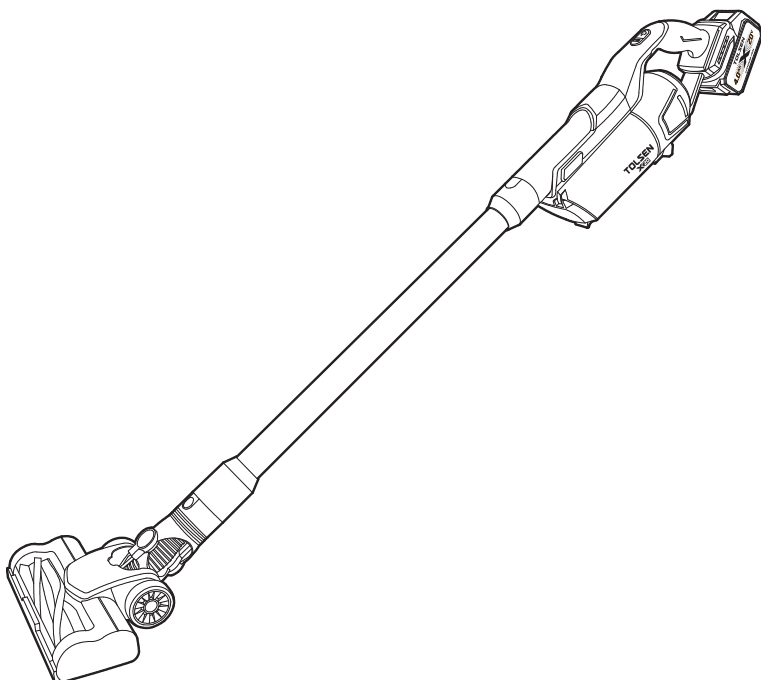
LI-ION CORDLESS VACUUM CLEANER

INSTRUCTION MANUAL

20V LITHIUM-ION

BL BRUSHLESS
MOTOR

INDUSTRIAL



SAVE THIS MANUAL !

You will need this manual for safety instructions, operating procedures and warranty.
Put it and the original sales receipt in a safe dry place for future reference.

IMPORTANT SAFETY INFORMATION

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.

WARNING: This appliance is not intended for use by persons (including children) with reduced, physical or mental capabilities or lack of experience or knowledge unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children must be supervised to ensure that they do not play with the appliance.

Save all warnings and instructions for future reference

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

Work area safety

1. Keep work area clean and well lit. Cluttered or dark areas invite accidents.
2. 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.
3. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

Electrical safety

1. 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.
2. 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.
3. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
4. 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.
5. 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.
6. If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) or ground fault circuit interrupter (GFCI) protected supply. Use of an RCD or GFCI reduces the risk of electric shock.
7. Power tools can produce electromagnetic fields [EMF] that are not harmful to the user. However, users of pacemakers and other similar medical devices should contact the maker of their device and/or doctor for advice before operating this power tool.

Personal safety

1. 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.
2. 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.
3. 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.
4. 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.
5. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
6. 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.
7. 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.
8. Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles. A careless action can cause severe injury within a fraction of a second.

Power tool use and care

1. 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.
2. Do not use the power tool if the switch could not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
3. 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.
4. 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.
5. 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.
6. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
7. 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.
8. 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

1. 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.
2. Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
3. 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.
4. Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
5. Do not use a battery pack or tool that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
6. Do not expose a battery pack or tool to fire or excessive temperature. Exposure to fire or temperature above 130 °C may cause explosion.
7. 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

1. 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.
2. Never service damaged battery packs. Service of battery packs should only be performed by the manufacturer or authorized service providers.
3. Follow instruction for lubricating and changing accessories.

Cordless cleaner safety warnings

WARNING: IMPORTANT! READ CAREFULLY all safety warnings and all instructions BEFORE USE. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

1. Do not expose to rain, Store indoors.
2. Do not allow to be used as a toy. Close attention is necessary when used by or near children.
3. Use only as described in this manual. Use only manufacturer's recommended attachments.
4. Do not use with damaged battery. If the appliance is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, return it to a service center.
5. Do not handle the appliance with wet hands.
6. Do not put any object into openings. Do not use with any opening blocked; keep free of dust, lint, hair, and anything that may reduce air flow.
7. Keep hair, loose clothing, fingers, and all parts of body away from openings and moving parts.
8. Turn off all controls before removing the battery.
9. Use extra care when cleaning on stairs.
10. Do not use to pick up flammable or combustible liquids, such as gasoline, or use in areas where they may be present.
11. Use only the charger supplied by the manufacturer to recharge.
12. Do not pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes.
13. Do not use without dust bag and/or filters in place.
14. Do not charge the battery outdoors.
15. 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.
16. Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
17. When (the) 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.
18. Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water.
19. Do not use a battery pack or appliance that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
20. Do not expose a battery pack or appliance to fire or excessive temperature. Exposure to fire or temperature above 130 °C may cause explosion.
21. Follow all charging instructions and do not charge the battery pack or appliance 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.
22. Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles. A careless action can cause severe injury within a fraction of a second.

Additional Safety Rules

This appliance is intended for household use.

Read this instruction manual and the charger instruction manual carefully before use.

Do not pick up the following materials:

1. Hot materials such as lit cigarettes or spark/metal dust generated by grinding/cutting metal
2. Flammable materials such as gasoline, thinner, benzene, kerosene or paint
3. Explosive materials like nitroglycerin
4. Ignitable materials such as Aluminum, zinc, magnesium, titanium, phosphorus or celluloid
5. Wet dirt, water, oil or the like
6. Hard pieces with sharp edges, such as wood chips, metals, stones, glasses, nails, pins or razors
7. Powder to clot such as cement or toner
8. Conductive dust such as metal or carbon
9. Fine particle like concrete dust Such action may cause fire, injury and/or property damage.
3. Stop operation immediately if you notice anything abnormal.
4. If you drop or strike the cleaner, check it carefully for cracks or damage before operation.
5. Do not bring close to stoves or other heat sources.
6. Do not block the intake hole or vent holes.

Proper Use

The equipment is suitable for dry vacuuming when using the appropriate filter. The equipment is designed only for home use and only for domestic settings. The equipment is not suitable for the vacuuming of combustible, explosive or harmful substances. The equipment is to be used only for its prescribed purpose. Any other use is deemed to be a case of misuse. The user / operator and not the manufacturer will be liable for any damage or injuries of any kind caused as a result of this.

Battery Safety



WARNING

This battery can only be used in the machines included in the TOLSEN X20V lithium-ion power platform system.

This battery can only be used cooperatively with the designated battery charger.

Li-Ion batteries, if incorrectly used, stored or charged will cause a fire, burn and explosion hazard.

Failure to follow these instructions may cause overheating or fire.

1. Keep the battery out of reach of children.
2. The battery should be charged at ambient temperatures between 5 and 40°C (ideally around 20°C) . After charging, allow 15 minutes for the battery to cool before use.
3. The Battery Charger monitors battery temperature and voltage while charging. DO NOT leave batteries on charge for extended periods and NEVER store batteries on charge. Ensure that the charger is disconnected from the mains supply after use.
4. When not in use batteries should be stored at room temperature. Do not store the tool and battery cartridge in locations where the temperature may reach or exceed 40°C (ideally around 20°C) .
5. Ensure that battery contacts cannot accidentally short in storage. Keep batteries clean; foreign objects or dirt may cause a short. Keep away from other metal objects, for example, paperclips, coins, keys, nails and screws.
6. **DO NOT** store lithium-ion battery packs in a discharged state over a long period as this can damage the lithium-ion cells. For long-term storage, store batteries in a high charge state disconnected from the power tool.
7. Batteries can become faulty over time, individual cells in the battery can fail and the battery could short. The charger will not charge faulty batteries. Use another battery, if possible, to check correct functionality of the charger and purchase a replacement battery if a faulty battery is indicated.
8. **DO NOT** open, disassemble, crush, heat or incinerate. Do not dispose of in fire or similar.

Battery Charger Safety



WARNING

This charger can only be used to charge the batteries which has TOLSEN X20V symbol. If it is used to charge other kinds of batteries, there is a risk of explosion. **DO NOT** attempt to recharge non-rechargeable batteries.

1. This is class 2 power supply. It is suitable for indoor use only.
2. Before use, the input and output technical data must be checked to secure correct use.
3. Do not use the Battery Charger in the circumstances that the output polarity does not match the load polarity.
4. Do not attempt to use the charger with any batteries other than those supplied. Keep your battery charger clean; foreign objects or dirt may cause a short or block air vents. Failure to follow these instructions may cause overheating or fire
5. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

Before Use

Removing a battery

Remove the Battery from the tool by pressing the lock button, then slide the Battery out of the Battery Slot.

WARNING:

DO NOT try to remove the Battery without pressing the lock button. The tool or Battery could be damaged.

Fitting a battery

1. Fit a battery by sliding it on to the Battery Slot of the tool until it clicks and locks into position

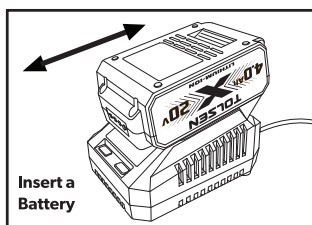
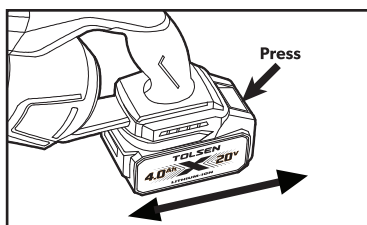
Note: Make sure the Battery and tool are lined up correctly. If the Battery does not slide into the tool easily, do not force it. Instead, slide the Battery out of the tool again, check the top of Battery and the tool battery slot are clean and undamaged and that the contacts are not bent

Setting up the battery charger

1. If there is battery fitted, remove any battery from battery charger first

2. Insert the Battery Charger mains plug into a suitable mains socket

Note: The Green LED on the Charger will always bright to indicate that the charger is ready to charge the battery.



WARNING: Use this charger **ONLY** to charge the supplied battery or additional purchased batteries that are specifically designed for this tool.

Charging the battery

WARNING: Failure to follow the correct procedure when charging batteries will result in permanent damage.

Note: Normal charging time is approximately 125 minutes for a recently discharged 4.0Ah capacity battery.

However, if the Battery has been left in a discharged state for some time, it may take additional time to charge.

1. Slide a fully or partially discharged Battery on to the Battery Charger .

2. Once charging commences, the Red LED will on.

3. When the Battery is fully charged, the Red LED will off and Green LED will on.

IMPORTANT: When a low charge level is indicated, the tool may stop operating while in use, which is dangerous when operating it. Always ensure the battery pack has a good charge level.

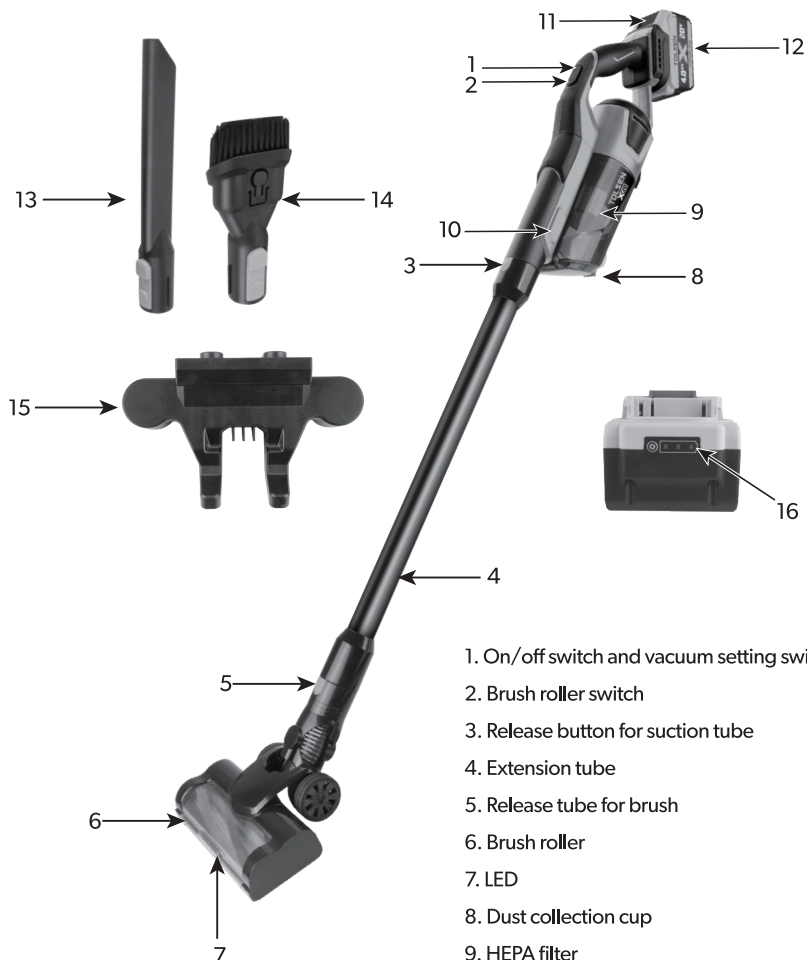
Note: Symbolology

	Class II Double insulated for additional protection
	Read the instruction manual before using
	Wear hearing protection while operating the tool
	Wear hand protection
	Always use breathing apparatus when machining materials which generate dust.
	Wear ear protection.
	Operating environmental temperature
	Do not incinerate battery pack
	Do not expose to water
	Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.
	Batteries and rechargeable batteries are not household waste! As a consumer, you are required by law to dispose of all batteries and accumulators, whether or not they contain harmful substances *, at a collection point in your municipality / neighborhood or in commerce so that they can be disposed of in an environmentally sound manner.
	Battery pack is recyclable and should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice
	Safety alert
	For indoor use only
	Internal time lag fuse with a maximum current of 2A.

SPECIFICATIONS

Rated Voltage	20VDC
Output power	240W
Dust capacity	0.6L
Air flow	0.8m ³ /min
Vacuity	13 kPa (Low) / 20 kPa (High)
Dust Full Protection	10s (Low) / 5s (High)
Battery (96126 not include)	
Battery Voltage	20VDC
Battery capacity	4.0Ah
Charger (96126 not include)	
Input Voltage	110-120VAC 60Hz
Output Voltage	21VDC
Rated output current	2.0A
Charging Time	125 minutes fast charging(4.0Ah battery)
Protection class	

FUNCTIONS



1. On/off switch and vacuum setting switch
2. Brush roller switch
3. Release button for suction tube
4. Extension tube
5. Release tube for brush
6. Brush roller
7. LED
8. Dust collection cup
9. HEPA filter
10. Release button for dust collection cup
11. Battery release button
12. Battery pack
13. Crevice nozzle
14. Dust brush
15. Wall holder
16. Electricity indicator

OPERATING INSTRUCTIONS

Assembly

CAUTION: Always be sure that the machine is switched off and the battery pack is removed before carrying out any work on the machine.

Installing and removing cleaner attachments

CAUTION: After installing attachments, check if they are securely installed. If the attachments are installed imperfectly, they may come off and cause personal injury. **CAUTION:** Be careful not to trap finger(s) when installing all the attachments and components. Trapping finger(s) may cause injury.

CAUTION: Be careful not to hit your hand on the wall etc. when removing the attachments. **CAUTION:** Keep metal pieces, water, and other foreign objects away from the terminals of the appliance. **CAUTION:** When installing the attachment with rotating parts, be careful not to get your fingers caught in the rotating parts.

To install attachment, insert it to the suction inlet of the cleaner until it clicks, Make sure that the attachment is locked.

NOTICE: When installing the attachment with lock function, be sure to align the release button on the cleaner with the hook on the attachment.

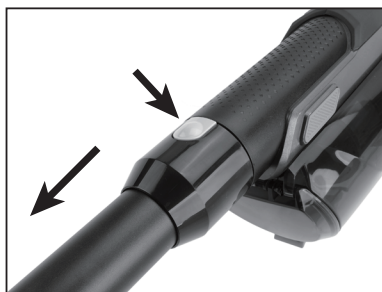
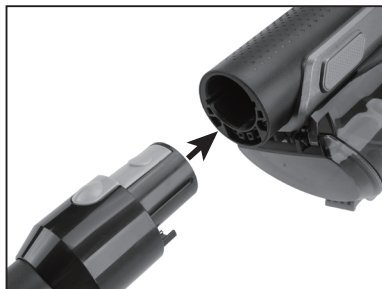
If they are not aligned, the attachment will not be locked and may come off from the cleaner. To remove the attachment, pull it off the cleaner while pressing and holding the release button.

NOTE: Nozzle without brushroll and attachment without lock function can also be installed.

Fitting the filters

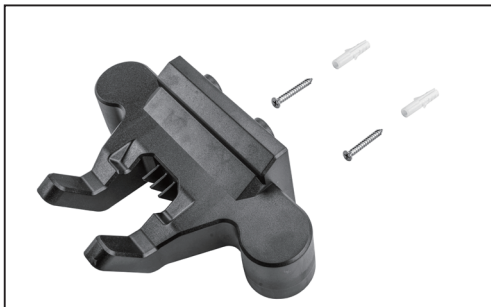
Important! Never use the equipment without filters! Always make sure that the filters are securely seated!

Fitting/removing the filter Press the release button (10) and remove the container while doing so. You can then take the filter together with the filter cage out of the container. The filter must be taken out of the filter cage for it to be thoroughly cleaned.



Fitting the wall holder

Danger! Check that there are no electric cables or other installations (such as water pipes) near the drill holes. Make sure that the wall holder is firmly seated on the wall in a horizontal position. Use only suitable fasteners on a wall capable of bearing the load. The supplied wall plugs and screws are suitable for the following: Concrete, densely structured natural stone, solid bricks, solid limestone bricks, solid lightweight concrete bricks, and aerated concrete.



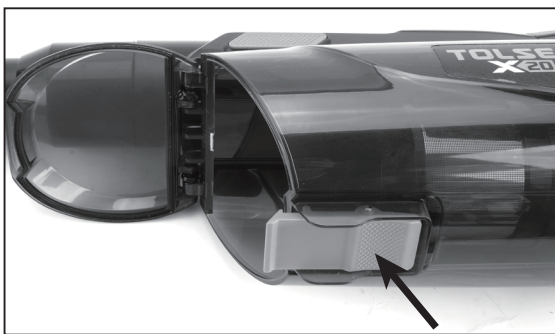
Fitting/removing the brush roller

While pressing the release button push it to the left and hold it tight. Lift the brush roller out of the housing. Assemble in reverse order. Make sure that the brush roller latches in place correctly. Remove the brush roller and use scissors to remove the threads and hairs from the brush roller when the brush roller stops rotating or when the threads and hairs become entangled in the brushroller.



Emptying the collection cup

Important! To achieve the best suction performance, empty the collection cup each time after you use the cleaner. Position the collection cup above a waste bin. Press the release button downwards in order to open the collection cup flap. When the emptying is finished, close the collection cup flap until you hear it latch in place.



On/off switch and vacuum setting switch

To turn on, press the ON/OFF switch. To increase vacuum, press the ON/OFF switch again. Note: The indicator LED will illuminate when the vacuum cleaner is turned on. To turn off, press the ON/OFF switch a third time.

**Brush roller switch**

NOTE: only when using the nozzle with brushroll, this switch functional. To turn on, press the ON/OFF switch; at this point, the roller brush turns on automatically and operates normally. When the brush roller switch is pressed, the roller brush stops operating and the operation light does not illuminate.

Cleaning (Suction)

Nozzle with brushroll + Extension wand (Straight pipe)

The extension wand fits in between the nozzle and the cleaner itself. This arrangement is convenient for cleaning a carpet and floor in a standing position.

**Nozzle with brushroll**

Attach the nozzle to clean off tables, desks, furniture, etc. The nozzle slips on easily.

Crevice nozzle

Fit on the Crevice nozzle for cleaning corners and crevices of a car or furniture.

**Crevice nozzle + Extension wand (Straight pipe)**

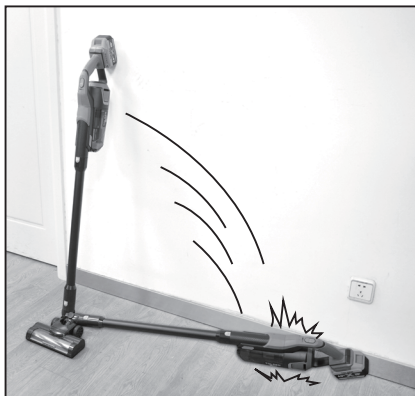
In tight quarters where the cleaner itself cannot squeeze in, or in high places hard to reach, use this arrangement.

MAINTENANCE

CAUTION: Always be sure that the tool is switched off and the battery cartridge is removed before attempting to perform inspection or maintenance. **CAUTION:** Be sure to attach filters to the cleaner properly. Filters with holes or those not properly attached may allow dust to enter the motor housing. This may cause motor failure or fires. **NOTICE:** Never use gasoline, benzine, thinner, alcohol or the like. Discoloration, deformation or cracks may result.

After use

CAUTION: Putting the cleaner against the wall without any other support may cause the cleaner to fall down, resulting in personal injury or damage to the cleaner.



Cleaning/replacing the filter

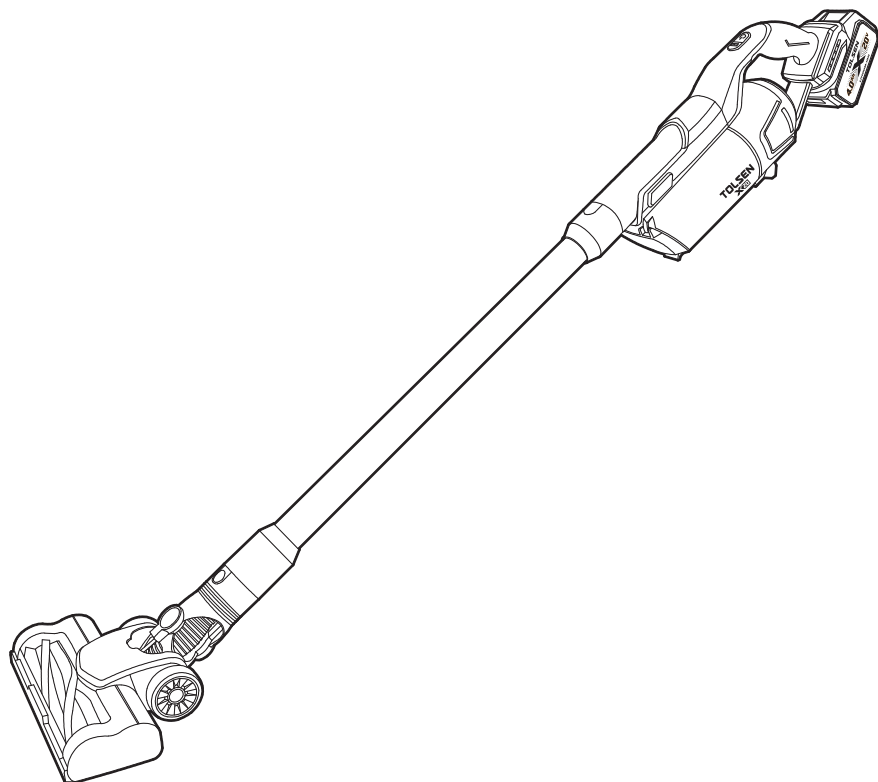
1. Remove the battery pack and the dust bowl.
2. Remove the filter assembly by pulling it out of the dust bowl.
3. Shake or lightly brush any dust or dirt off the filter assembly.
4. Remove the filter from the assembly by lifting away from the assembly. The filter may be rinsed if necessary.
5. Empty the dust bowl; wash if necessary. Before reattaching to the stick vac, make sure all pieces are completely dry.
6. Reinsert the filter into the filter assembly.
7. Install the filter assembly into the dust bowl.
8. Position the two sections as shown.
9. Reattach the dust bowl by aligning the slot on the bottom of dust bowl with the tab on the bottom of motor housing. **NOTE:** Make sure tab and slot are aligned correctly before securing the dust bowl.
10. Snap the two sections together.

Cleaning the brush roller

Take the brush roller out of the housing (see the section "Fitting/removing the brush roller"). Clean the brush roller of everything that has collected on it during use. Reinsert the brush roller in the housing.

TROUBLESHOOTING

problem	Possible cause	Remedy
Suction weakens	Clogged filter	Clean dirt from filter. If condition continues, change the filter.
	Air leak	Check the connection of all the accessories (floor tool, hoses, etc.). Check that clips are fastened properly.
	Obstruction in hose or floor tool	Check floor tool, hose, etc. for obstructions, and remove if present.
	Saturated filter	Replace saturated filters.
Dust leakage	Filters are not fit well	Check if the filters are fit in the right position.
Machine doesn't work.	Battery is not well charged	Check if there's any power left in the battery; Or charge the battery.
	Motor breaks down	Send the cleaner to your local stores for repairment.



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TOOLS CO.,LTD.**

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