

NG-52

12V MULTI-FUNCTION TOOL

NOVA GEAR



Battery and charger sold separately

PRODUCT CODE: 40041



CAUTION: Read the operating instructions to reduce the risk of injury

INSTRUCTION MANUAL

SAFETY



CAUTION: Read the operating instructions to reduce the risk of inquiry.



DOUBLE INSULATED

This tool is double insulated in accordance with AS/NZS 60335-1; therefore no earth wire is required.

ELECTRICAL SAFETY

This manual contains important safety and operating instructions for your battery charger (sold separately).

› Before using the charger, read all instructions and cautionary markings on charger, battery pack and product using the battery pack.



DANGER! If the battery pack case is cracked or damaged, do not insert into charger. There is a danger of electric shock or electrocution.



Warning: Do not allow any liquid to get inside charger. Electric shock may result. To facilitate cooling of the battery pack after use, avoid placing the charger or battery pack in a warm environment such as in a metal shed, or an uninsulated trailer.

› This charger is not intended for any uses other than charging rechargeable batteries. Any other

use may result in risk of fire, electric shock or electrocution.

› Do not place any object on top of the charger or place the charger on a soft surface that may result in excessive internal heat. Place the charger in a position away from any heat source.

› To reduce risk of damage to the electric plug and cord, pull by the plug rather than the cord when disconnecting the charger.

› Make sure cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.

› An extension cord should not be used unless absolutely necessary. Use of an improper extension cord could result in the risk of fire, electric shock or electrocution.

› Do not operate charger if it has received a sharp blow, been dropped or otherwise damaged in any way. Have it checked by an electrician or power tool repairer.

› Do not disassemble charger. Take it to an electrician or power tool repairer when service or repair is required. Incorrect reassembling may result in a risk of electric shock, electrocution or fire.

› To reduce risk of electric shock, unplug charger from the outlet before attempting any cleaning. Removing the battery pack will not reduce this risk.

› Never attempt to connect 2 chargers together.

› DO NOT store or use the tool and battery pack in locations where the temperature may reach or exceed 40°C (such as outside sheds or metal buildings in summer).

› The charger is designed to operate on standard household electrical power (240 volts). Do not attempt to use it on any other voltage! The battery pack is not fully charged out of the carton. First read the safety instructions and then follow the charging notes and procedures.

› The longest life and best performance can be obtained if the battery pack is charged when the air temperature is between 18 - 24°C. Do not charge the battery pack in an air temperature below 10°C or above 40°C. This is important and will prevent damage to the battery pack.

› Do not incinerate the battery pack even if it is seriously damaged or is completely worn out. The battery can explode in a fire.

› Never attempt to open the battery pack for any reason. If the plastic housing of the battery pack breaks or cracks, immediately discontinue use and do not recharge.

GENERAL SAFETY



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 these instructions and other documents supplied with this tool for future reference.

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 or 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.

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) BATTERY TOOL USE AND CARE

- a) 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.
- b) Use power tools only with specifically designated battery.** Use of any other battery packs may create a risk of injury and fire.
- c) When the battery 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.
- d) 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.

6) 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.

b) 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.

ADDITIONAL SAFETY FOR MULTI-FUNCTION TOOLS

a) Do not use the tool in wet or damp conditions.

b) Wear ear protectors when this tool is in use. Exposure to noise can cause hearing loss.

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

Recommendations for the use of a residual current device with a rated residual current of 30mA or less:

› Wear a hard hat (safety helmet), safety glasses and/or face shield. It

is also highly recommended that you wear a dust mask, ear protection and padded gloves.

› Hold the power tool with a firm grip.

› Secure the work piece. A work piece clamped with clamping devices or in a vice, is held more secure than by hand.

› One-handed operation can be hazardous. It is recommended you hold the unit firmly with both hands when operating the tool.

› After installing an accessory, pull lightly on it to make sure that it does not come loose. If the accessory is not installed properly, it can come loose during use, which can be dangerous.

› Use an accessory that is appropriate for the application.

› Check that any accessory to be used is not cracked or broken. Broken or cracked accessories are dangerous.

› If the ring securing the accessory is damaged, the accessory may come off during use causing personal injury.

› The torque delivered by the multi-function tool depends on how long it is applied, the type of accessory and other factors such as the state of the battery charge.

› Never touch the accessory whilst it is in motion. Do not let the accessory get near your hands or any other part of your body. You could be injured.

› Do not touch the accessory after it has been in use for an extended period. It could be hot and burn you.

LITHIUM-ION BATTERY & CHARGER SAFETY

OVER CHARGING PROTECTION

This feature ensures that the battery is never overcharged. When the battery has reached its full charge capacity the charger will shut off protecting the internal components of the battery from being damaged.

OVER DISCHARGE PROTECTION

An internal component of the battery pack is an over discharge protector. This feature will stop the battery from discharging beyond the recommended lowest safety voltage.

OVER HEAT PROTECTION

The battery has an internal Thermister cut off sensor which will cease the charging cycle if the battery becomes hot during the charging process. This Thermister sensor will also stop the battery from operating should the battery become too hot during the operation of the tool. This can happen when the tool is overloaded or being used for extended periods of time. Up to 30min in cooling time may

be required depending on ambient temperature and operation being performed.

OVER CURRENT PROTECTION

Should the battery be overloaded and the maximum current draw be exceeded the battery will temporarily stop working to protect the internal components. The battery will resume to normal operation once the excessive current draw has returned to normal safe level. This may take a few seconds.

SHORT CIRCUIT PROTECTION

If the battery pack was to short circuit the short circuit protector would immediately stop the battery pack from operating. This will ensure that no further internal components of the battery or the tools are damaged.

INTENDED USE

The cordless multi-function tool is suitable for sanding / grinding small areas and cutting or scraping with the appropriate accessory attached.

The equipment is designed for the sanding / grinding of wood, iron, plastic and similar materials using the appropriate sanding / grinding accessory. Furthermore, the equipment is intended for sawing wood, plastic and similar materials, as well as scraping off glued carpets, filling compound residues, old paint and similar applications.

The equipment may only be used for the tasks it is designed to handle. 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.

TECHNICAL SPECIFICATIONS

SPECIFICATIONS	NG-52 Multi-function Tool
Product code	40041
Warranty	3 years
Voltage	12V
Oscillation angle	3°
Variable speed	5000 - 16000 RPM
Battery type	Li-ion 2000mAh
Battery charge time	30 mins

PRODUCT OVERVIEW

IDENTIFICATION



1. On / off switch
2. Variable speed switch
3. Accessory drive spindle
4. Metal gear box
5. Battery release button
(battery not included)

ACCESSORIES INCLUDED

- › 1x cutting blade
- › 1x hex spanner

BATTERY AND CHARGER

This tool is compatible with the NG-6020 battery and NG-61 charger.

INSTALLING AND REMOVING THE BATTERY

Always switch off the multi-function tool before insertion or removal of the battery.

INSTALLING THE BATTERY

› Hold the multi-function tool upright and pick up the battery in your opposite hand. Place two fingers over the battery release buttons and insert the battery until it clicks into place (Fig. 1).

› Do not use excessive force when inserting the battery. If the battery does not slide in easily, it is not being inserted correctly. It is also possible that there could be damage to the battery, battery terminals or the multi-function tool.

REMOVING THE BATTERY

Press both the battery release buttons on either side and gently pull the battery out of the multi-function tool.

BATTERY LIFE

The length of service from each charging cycle will depend on the type of work you are doing. To obtain the longest possible battery life, we suggest the following:

- › Store and charge your battery in a cool area. Temperatures above or below normal room temperature will shorten battery life.
- › Store and charge your battery in a cool area. Temperatures above or below



Fig.1

normal room temperature will shorten battery life.

- › Never store batteries in a uncharged condition. Recharge them immediately after they are uncharged.
- › All batteries gradually lose their charge. The higher the temperature the quicker they lose their charge. If you store your multi-function tool for long periods of time without using it, recharge the batteries every month or two. This practice will prolong battery life.

ASSEMBLY

ATTACHING ACCESSORIES

1. To attach an accessory to the Multi-function Tool, turn the tool upside down and ensure the surface is clean and free of debris (Fig. 2). Ensure that the large hole located within the series of smaller perforated holes on the accessory is correctly placed over the raised locating ring on the accessory drive spindle. Choose the desired angle required for your application and position the series of smaller accessory perforated holes over the raised accessory locating pins on the drive spindle of the Multi-function Tool (Fig. 3).

Be sure that all of the holes of the accessory are now correctly located onto the accessory drive spindle and the accessory is sitting flat against the face of the accessory drive spindle.



Fig.2



Fig.3

2. Place the accessory fixing washer in alignment with the inner hole of the accessory drive spindle (Fig. 4). Ensure the flat side of the accessory fixing washer is facing towards the accessory.
3. Insert the locking bolt through the accessory fixing washer and into the accessory drive spindle of the Multi-function Tool.
4. Tighten the locking bolt using an allen key in an anti-clockwise direction. (Fig. 5) Do not overtighten.

REMOVING ACCESSORIES

1. Loosen the locking bolt using the allen key in a clockwise direction.
2. Remove the locking bolt and the accessory fixing washer from the Multi-function Tool. Remove the accessory.
3. To re-attach an accessory, follow the instructions on "Attaching accessories".

REPLACING SAND PAPER

1. Align the sanding paper to the hook & loop sanding pad and press firmly to hold in place. As this product does not include a dust extraction system, it is not critical that the holes in the sanding paper line up with the holes on the hook & loop sanding pad.
2. To remove or change the sanding paper carefully peel off the sanding paper from one of the triangle ends.



Fig.4



Fig.5

OPERATION

ON / OFF SWITCH

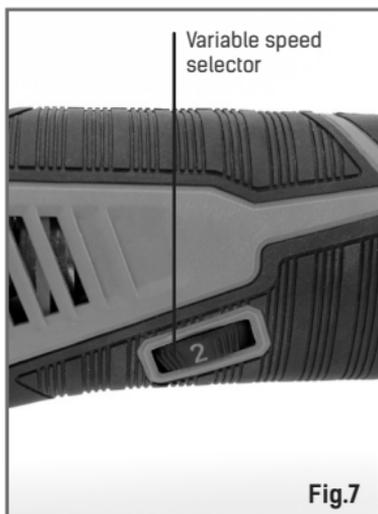
1. Slide the on / off switch forward to the “on” position (Fig.6).
2. Slide the on / off switch towards the back of the Multi-function Tool to the “off” position.

VARIABLE SPEED

NOTE: In various applications you will need to select the correct speed.

1. When the Multi-function Tool power is turned on, select the “variable speed switch” by scrolling the variable speed dial to your desired speed (Fig. 7). The higher the number on the variable speed dial the faster the oscillation frequency of the Multi-function Tool.
2. Recommended oscillation frequency for applications:

High oscillation frequency	Sanding, sawing, rasping, and polishing stone and metal.
Low oscillation frequency	Polishing varnishes



SANDING

CHOOSING THE CORRECT SANDING PAPER:

Sanding paper is rated according to the number marked on the rear of the sanding paper. The higher the number, the smaller and less coarse the particles are on the sanding paper. The lower the number, the larger and more coarse the particles are on the sanding paper, this will provide a more aggressive sanding action for quick material removal.

- › Coarse grit (eg.40) is used for removing paint and sanding down rough surfaces.
- › Medium grit (eg.80) is used for sanding down plain timber.
- › Fine grit (eg.120) is used to give a smooth finish to bare wood.
- › Extra fine grit (eg.400-1200) is used for polishing or sanding between coats of paint.

NOTE: When using the Multi-function Tool in sanding application, try not to apply excessive pressure when using course grit paper as this can lead to swirl marks on the work piece.

NOTE: Ensure you have the correct sanding paper for your application. Always test on a scrap work piece before using on your final work piece.

1. In sanding mode, the Multi-function Tool can be used on materials such as wood, plastic, metal and painted surfaces.

2. Slide the on/off switch forward to the "on" position. Ensure the Multi-function Tool is not placed on the work piece.
3. Select the desired oscillation frequency speed on the variable speed dial and wait until the motor reaches its maximum speed.
4. Place the Multi-function Tool on your work piece, ensuring the whole area of the sanding base is in contact with the work surface.
5. Allow the Multi-function Tool to do the work and do not apply heavy pressure on the Multi-function Tool. Heavy pressure does not increase the removal of material but will wear your sanding paper faster.
6. If sanding corners in hard to reach areas use the tip or triangle edge of the hook & loop sanding pad.

NOTE: For best results, the sanding pad must be kept flat on the work piece. Do not tilt the sanding base and use the edge of the sanding paper or the sanding pad may become damaged, causing the sanding paper not to adhere to the base correctly.

SQUARE BLADE SAWING



Caution: Clamp your work piece securely if possible before commencing your work.

NOTE: Ensure your blades are not blunt or damaged in any way before commencing your application.

1. In sawing mode, the Multi-function Tool can be used on wood, plastics and sheet metal.
2. Slide the on/off switch forward to the "on" position. Ensure it is not placed on the work piece.
3. Select the desired oscillation frequency speed on the variable speed switch and wait until the motor reaches its maximum speed
4. If plunging, use a slight pendulum motion to allow sufficient chip or debris removal.

NOTE: If using the Multi-function Tool for plunge cuts: only use this application on soft materials such as wood or gypsum plaster boards. Check there are no nails or screws in the work piece before cutting.



Warning: If installing power points, please ensure all electricity is switched off at the fuse box prior to work commencing. It is important to seek the advice of a licensed electrician when conducting any work around the home which involves electricity.

SCRAPING

NOTE: The scraping blade is designed for scraping surfaces and the removal of soft materials. Ensure you have the correct angle and only apply light pressure to avoid cutting the surface.

1. In scraping mode the Multi-function Tool can be used to remove materials such as fabrics, adhesives and vinyls on materials such as wood, plastic, metal and painted surfaces.
2. Slide the on/off switch forward to the "on" position. Ensure it is not placed on the work piece.
3. Select the desired oscillation frequency speed on the variable speed dial and wait until the motor reaches its maximum speed.
4. Place the Multi-function Tool on the work piece. Ensure you have angled the scraper blade correctly.
5. Allow the scraper to do the work and do not apply heavy pressure on the Multi-function Tool. Heavy pressure can cut into the surface or overload the Multi-function Tool.

MAINTENANCE

- › When not in use, the Multi-function Tool should be stored in a dry, frost free location, out of reach of children.
- › Keep ventilation slots of the Multi-function Tool clean at all times and prevent any foreign matter from entering.
- › If the housing of the Multi-function Tool requires cleaning, do not use solvents but a moist soft cloth only.
- › Blow out the ventilation slots with compressed air periodically.

NOTE: Nova Gear will not be responsible for any damage or injuries caused by repair of the Multi-function Tool by an unauthorised person or by mishandling of the Multi-function Tool

WASTE DISPOSAL & RECYCLING

Do not dispose of this product in household waste!

Please recycle this product responsibly in accordance with local and national law.

SERVICING

For information on servicing and repairs please contact Spot-on on 1300 658 338 or visit www.spoton.com.au.

WARRANTY

The NG-52 Multi-function Tool comes with a 3 year manufacturers warranty.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Separate to the above Australia Consumer Law, Spot-on offers a global warranty.

The warranty period commences on the date of purchase, which can be verified on your receipt or invoice. We cannot offer a warranty for damages and defects on appliances or their parts caused by improper use or treatment. Damage caused by failure to comply with the operating manual will be excluded from the warranty. In the event that an unauthorised persons has modified the appliance, the warranty will be rendered void. Damages that are caused by improper handling are excluded from the guarantee.

If you have any concerns or wish to make a warranty claim please contact your retailer or Spot-on Laser and Tool Company on 1300 658 338.

Spot-on Laser and Tool Company PTY LTD
10-12 Dowsett Street,
South Geelong, VIC 3220
Australia





Spot-on Laser and Tool Company | 1300 658 338 | www.spoton.com.au