

RYOBI®

R18DPI

ORIGINAL INSTRUCTIONS

18V Digital Pressure Inflator



Important!

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

It is essential that you read the instructions in this manual before assembling, operating, and maintaining the product.

Subject to technical modifications.

Safety, performance, and dependability have been given top priority in the design of your pressure inflator.

INTENDED USE

The pressure inflator is intended to be used only by adults who have read and understood the instructions and warnings in this manual, and can be considered responsible for their actions.

The product is intended for inflating high pressure items such as car tyres, bicycle tyres and sports balls.

NOTE: Refer to the product documentation or the labels of the item to be inflated for correct pressure.

Do not use the product for any other purpose.

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 (cordless) 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 surfaces, 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 suitable for outdoor use reduces the risk of electric shock.
- **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.

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 dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
- **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
- **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.
- **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 jewellery. Keep your hair and clothing away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
- **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.
- **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

- **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.
- **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 remove 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 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.
- **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 behaviour 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.

INFLATOR SAFETY WARNINGS

- Risk of bursting. Do not preset the product resulting in its output pressure to be greater than the marked maximum pressure of the item to be inflated. Do not use at pressure greater than 150 PSI(10.34 bars).
- Make sure the hose is free of obstructions or snags. Entangled or snarled hoses can cause loss of balance or footing and may be damaged.
- Never leave the product unattended with the hose still connected and operating.
- To reduce the risk of electrical shock, do not put the product in water or other liquid. Do not place or store an appliance where it can fall or be pulled into a tub or sink.
- Discontinue use if the product does not function properly or the hose leaks.
- Do not attempt to pull or carry the product by the hose.
- Never direct any compressed air or blow any dust toward people or animals.
- Store indoors.
- Always disconnect the air and power supply before making adjustments and servicing, or when not in use.
- Inspect yearly for cracks, pin holes or other imperfections that could cause the product to become unsafe. Never cut or drill holes in the product.
- Know your your product. Read operator's manual carefully. Learn its applications and limitations, as well as the specific potential hazards related to this tool. Following this rule will reduce the risk of electric shock, fire, or serious injury.
- To reduce the risk of electric shock, do not expose the product to rain. Store indoors.
- Inspect the product for cracks, pin holes, or other imperfections that could cause the product to become unsafe.
- Never cut or drill holes in the product.
- Use the product only for its intended use. Do not alter or modify the product from the original design or function.
- Do not attempt to modify this product or create accessories or attachments not recommended for use with the product. Any such alteration or modification is misuse and could result in a hazardous condition

leading to possible serious personal injury.

- Always be aware that misuse and improper handling of the product can cause injury to yourself and others.
- Always follow all safety rules recommended by the manufacturer of the product, in addition to all safety rules for the product. Following this rule will reduce the risk of serious personal injury.
- Household use only.
- Do not use the product as a breathing device.
- Never direct a jet of compressed air toward people or animals. Take care not to blow dust and dirt towards yourself or others. Following this rule will reduce the risk of serious injury.
- Protect your lungs. Wear a face or dust mask if the operation is dusty. Following this rule will reduce the risk of serious personal injury.
- Do not use the product to spray chemicals. Your lungs can be damaged by inhaling toxic fumes.
- Check damaged parts. Before further use of the product or air tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center. Following this rule will reduce the risk of shock, fire, or serious injury.
- Risk of bursting. Carefully monitor objects during inflation.
- To reduce the risk of over inflation, use a reliable pressure gauge periodically during inflation. The pressure gauge on the product is for reference only and is therefore not binding for exact values.
- Allow the product to cool for five (5) minutes after every five (5) minutes of continuous use. Never block the inflating or deflating outlets while operating.
- Save these instructions. Refer to them frequently and use them to instruct others who may use this inflator. If you loan someone this inflator, loan them these instructions also.
- Ambient temperature range for tool during operation is between 0°C and 40°C.
- Ambient temperature range for tool storage is between 0°C and 40°C.
- The recommended ambient temperature range for the charging system during charging is between 10°C and 38°C.

ADDITIONAL BATTERY SAFETY WARNINGS

WARNING

To reduce the risk of fire, personal injury, and product damage due to a short circuit, never immerse your tool, battery pack or charger in fluid or allow a fluid to flow inside them. Corrosive or conductive fluids, such as seawater, certain industrial chemicals, and bleach or bleach-containing products, etc., can cause a short circuit.

TRANSPORTING LITHIUM BATTERIES

Transport the battery in accordance with local and national provisions and regulations.

Follow all special requirements on packaging and labelling when transporting batteries by a third party. Ensure that no batteries can come in contact with other batteries or conductive materials while in transport by protecting exposed connectors with insulating, non-conductive caps or tape. Do not transport batteries that are cracked or leaking. Check with the forwarding company for further advice.

- Ambient temperature range for battery during use is between 0°C and 40°C.
- Ambient temperature range for battery storage is between 0°C and 20°C.

RESIDUAL RISKS

Even when the product is used as prescribed, it is still impossible to completely eliminate certain residual risk factors. The operator should pay particular and additional attention to these points in order to reduce the risk of serious personal injury.

- Use the product only for its intended use. Do not alter or modify the product from the original design or function.
- Always be aware that misuse and improper handling of the product can cause injury to yourself and others.
- Never leave the product unattended with the nozzle attached to the item being inflated.
- Do not continue to use the product or nozzle which leaks air or does not function properly.
- Risk of inflatable bursting
 - Do not operate the product to result in output pressure greater than marked maximum pressure of item to be inflated.
 - Carefully monitor objects during inflation to reduce the risk of over inflation. Use a reliable pressure gauge periodically during inflation.

RISK REDUCTION

It has been reported that vibrations from handheld tools may contribute to a condition called Raynaud's Syndrome in certain individuals. Symptoms may include tingling, numbness and blanching of the fingers, usually apparent upon exposure to cold. Hereditary factors, exposure to cold and dampness, diet, smoking and work practices are all thought to contribute to the development of these symptoms. There are measures that can be taken by the operator to possibly reduce the effects of vibration:

- Keep your body warm in cold weather. When operating the unit wear gloves to keep the hands and wrists warm. It is reported that cold weather is a major factor contributing to Raynaud's Syndrome.
- After each period of operation, exercise to increase blood circulation.
- Take frequent work breaks. Limit the amount of exposure per day.

If you experience any of the symptoms of this condition,

immediately discontinue use and see your doctor about these symptoms.

WARNING

Injuries may be caused, or aggravated, by prolonged use of a tool. When using any tool for prolonged periods, ensure you take regular breaks.

MAINTENANCE

WARNING

The product should never be connected to a power supply when assembling parts, making adjustments, cleaning, performing maintenance, or when the product is not in use. Disconnecting the product from the power supply will prevent accidental starting that could cause serious injury.

WARNING

When servicing, use only original manufacturer's replacement parts, accessories and attachments. Use of any other parts may create a hazard or cause product damage.

- Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, carbon dust, etc.

WARNING

Do not at any time let brake fluids, gasoline, petroleum-based products, penetrating oils, etc., come in contact with plastic parts. Chemicals can damage, weaken or destroy plastic which may result in serious personal injury.

WARNING

For greater safety and reliability, all repairs should be performed by an authorised service centre.

ENVIRONMENTAL PROTECTION



Recycle raw materials instead of disposing of as waste. The machine, accessories and packaging should be sorted for environment-friendly recycling.

SYMBOLS ON THE PRODUCT



Safety alert



No-load speed



Volts



Direct current



Please read the instructions carefully before starting the machine.



Regulatory Compliance Mark (RCM). Product meets applicable regulatory requirements.



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.

SYMBOLS IN THIS MANUAL



Note



Parts or accessories sold separately

The following signal words and meanings are intended to explain the levels of risk associated with this product:

DANGER

Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.

WARNING

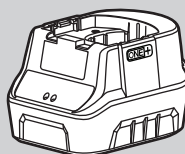
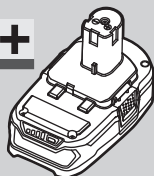
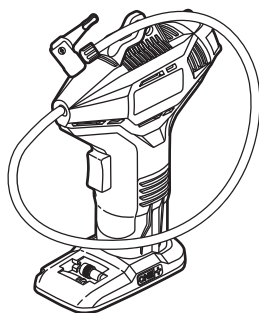
Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.

CAUTION

Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.

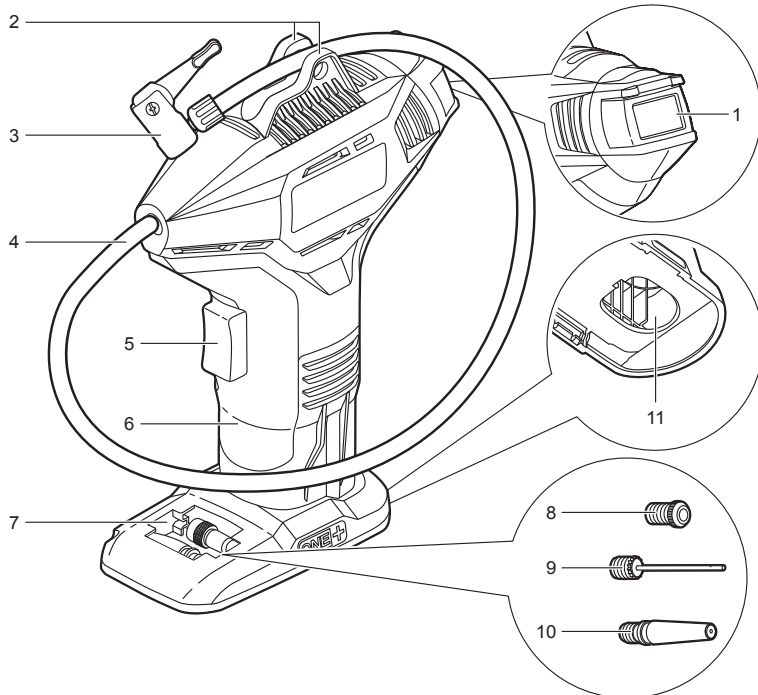
CAUTION

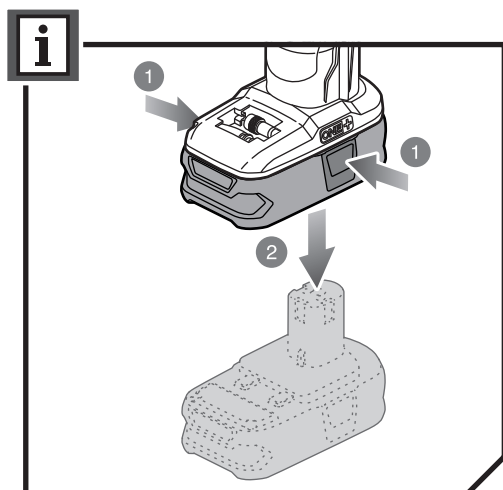
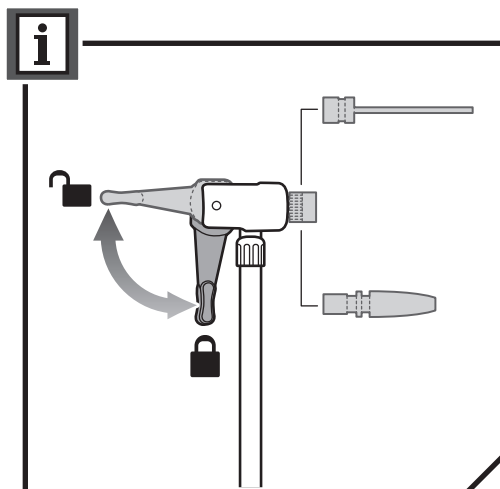
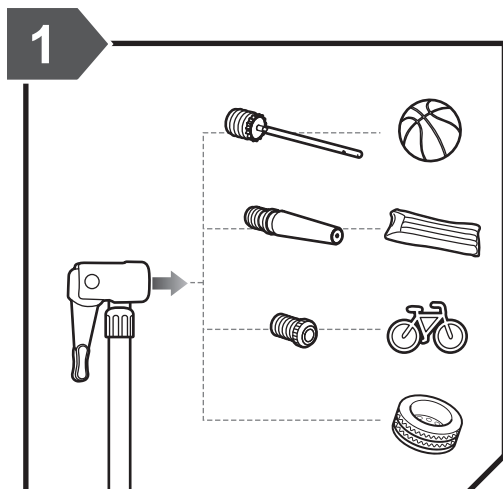
(Without Safety Alert Symbol) Indicates a situation that may result in property damage.



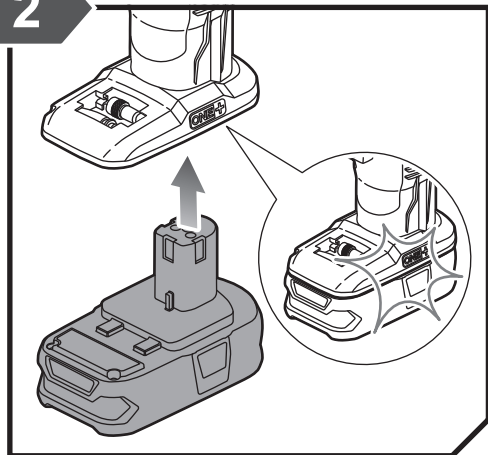
KNOW YOUR PRODUCT

1. Digital gauge
2. Hose storage area
3. Air chuck
4. Air hose
5. Switch trigger
6. Handle, insulated gripping surface
7. Accessory storage
8. Presta valve adaptor
9. Sport ball needle
10. Tapered adaptor
11. Battery port

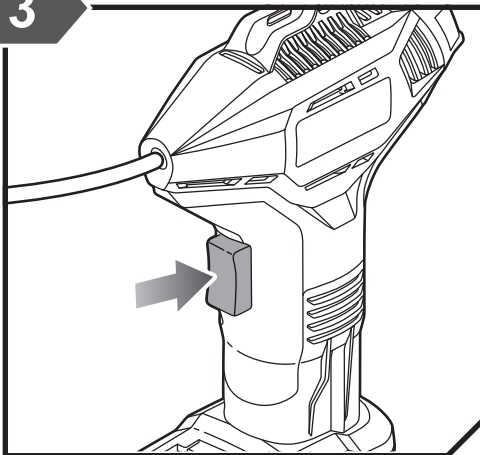




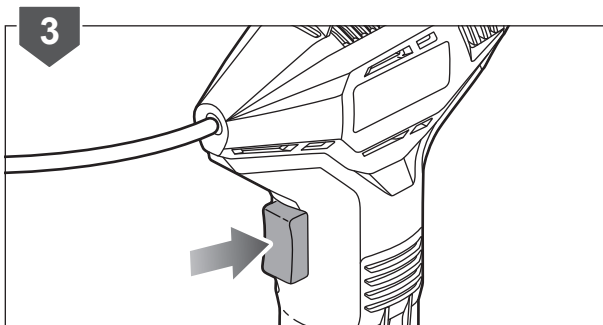
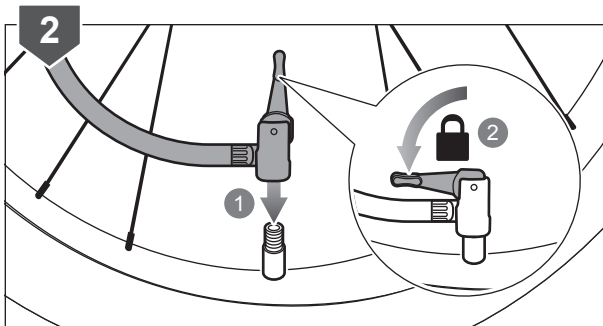
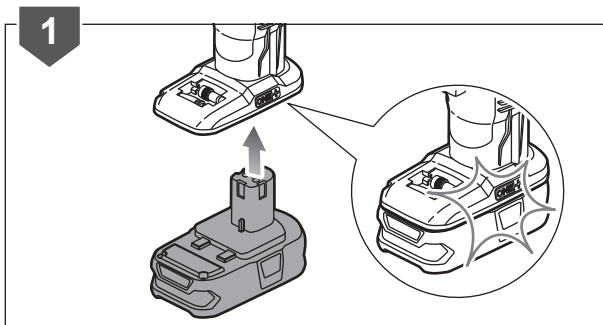
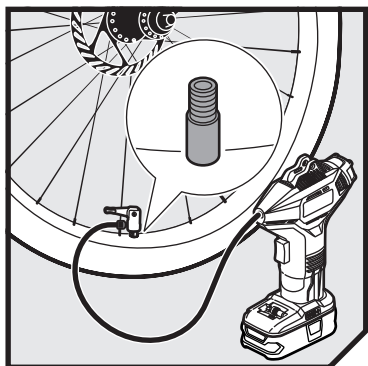
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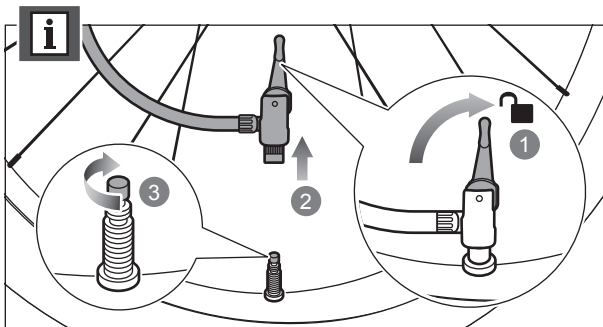
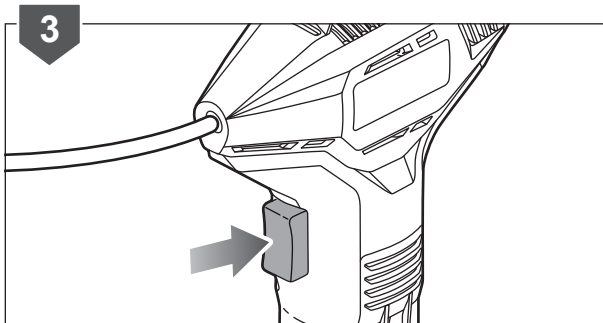
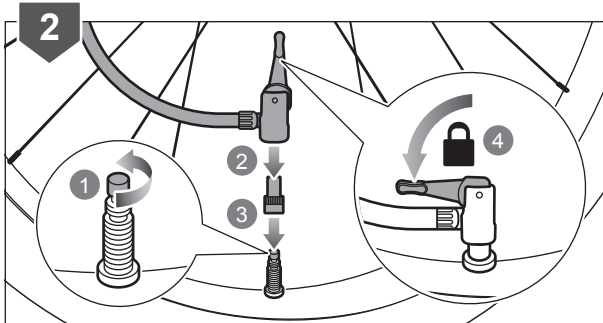
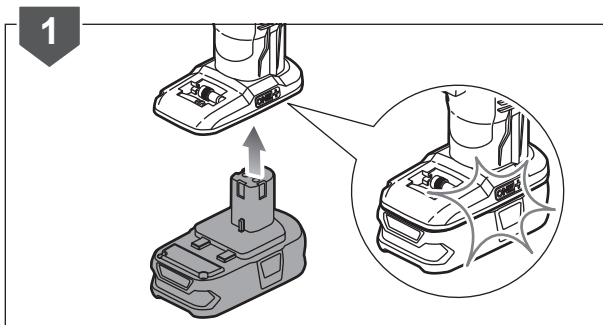
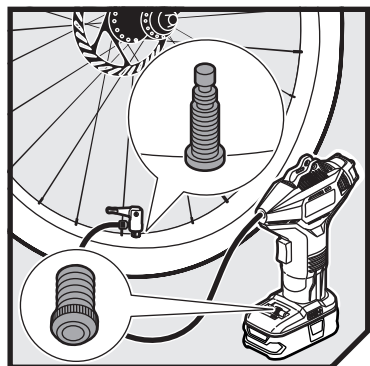


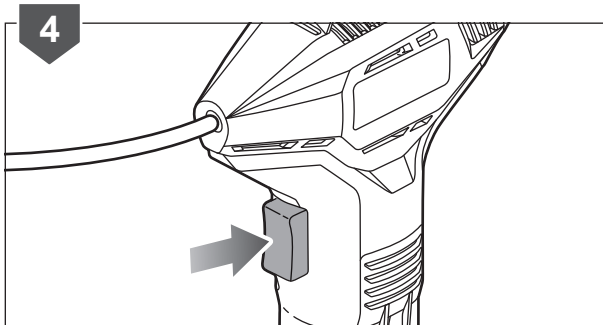
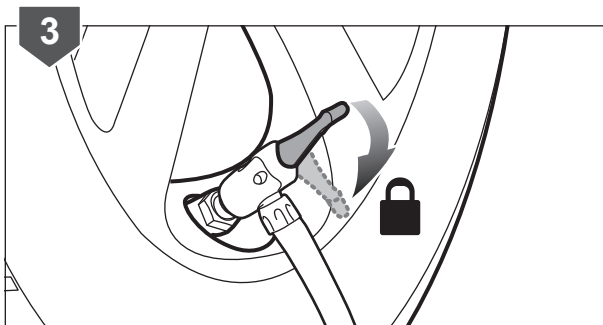
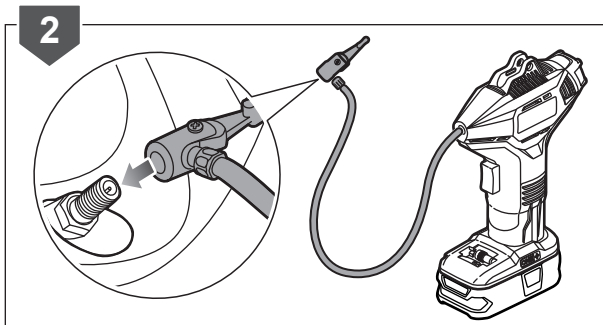
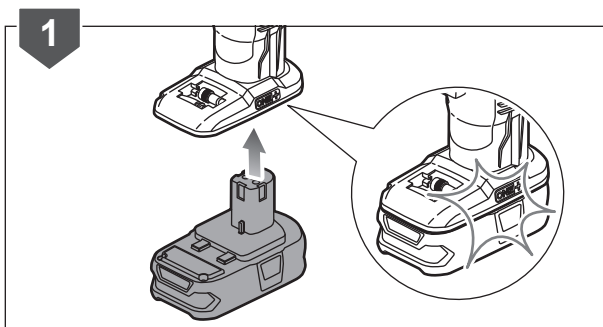
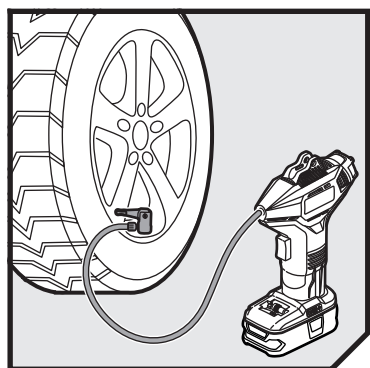
3



Pressure reading will be higher when inflator is ON. To measure pressure of item being inflated, stop pumping and wait 1 second for the reading to settle.








PRODUCT SPECIFICATIONS

18V Digital Pressure Inflator

Model	R18DPI
Voltage	18 V 
Pressure hose length	508 mm
Maximum pressure	150 PSI, 10.34 BAR
Gauge accuracy	+/-3psi
Pump Displacement	16 L/Min
RPM	17400 r/min(+/-10%)

Weight - excluding battery pack 0.62 kg

Measured sound values determined according to EN 62841:

A-weighted sound pressure level Uncertainty K	$L_p = 80.0 \text{ dB(A)}$ 3 dB(A)
A-weighted sound power level Uncertainty K	$L_w = 91.0 \text{ dB(A)}$ 3 dB(A)

Wear ear protectors.

The vibration total values (triax vector sum) determined according to EN 62841:

Vibration emission value	$a_n = 4.2 \text{ m/s}^2$
Uncertainty K	1.5 m/s^2

BATTERY AND CHARGER

Model	Compatible battery pack (not included)	Compatible charger (not included)
Lithium-Ion	RB18L13	
	RB18L15	
	RB18L15A	
	RB18L15B	BCS618G
	RB18L20	BCL14181H
	RB18L20A	BCL14183H
	RB18L25	BCL1418IV*
	RB18L25A	RC18150U
	RB18L40	RC18627U
	RB18L40A	RC18120
	RB18L50	RC18115
	RB18L50A	
	RB18L60A	
	RB18L90A	

* for vehicles with 12V DC outlets

VIBRATION LEVEL



WARNING

The vibration emission level given in this information sheet has been measured in accordance with a standardised test given in EN 62841 and may be used to compare one tool with another. It may be used for a preliminary assessment of exposure. The declared vibration emission level represents the main applications of the tool. However if the tool is used for different applications, with different accessories or poorly maintained, the vibration emission may differ. This may significantly increase the exposure level over the total working period.

An estimation of the level of exposure to vibration should also take into account the times when the tool is switched off or when it is running but not actually doing the job. This may significantly reduce the exposure level over the total working period. Identify additional safety measures to protect the operator from the effects of vibration such as: maintain the tool and the accessories, keep the hands warm and organisation of work patterns.







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