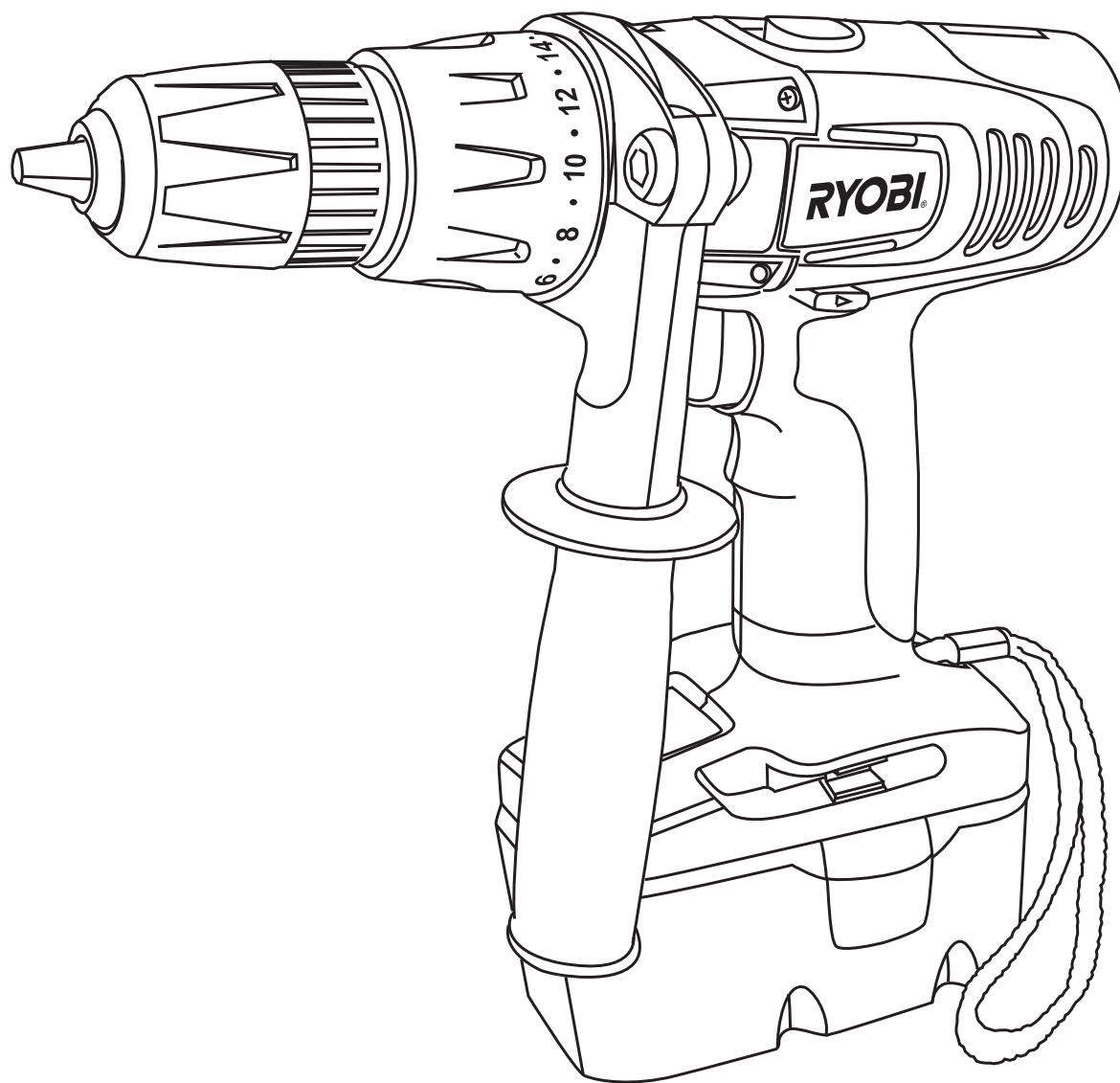




# OPERATOR'S MANUAL CORDLESS IMPACT DRILL-DRIVER MODEL NO. CBI1442D / CBI1802D



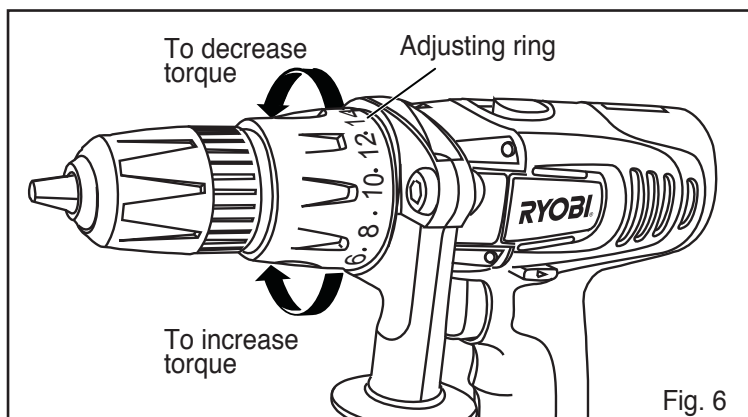
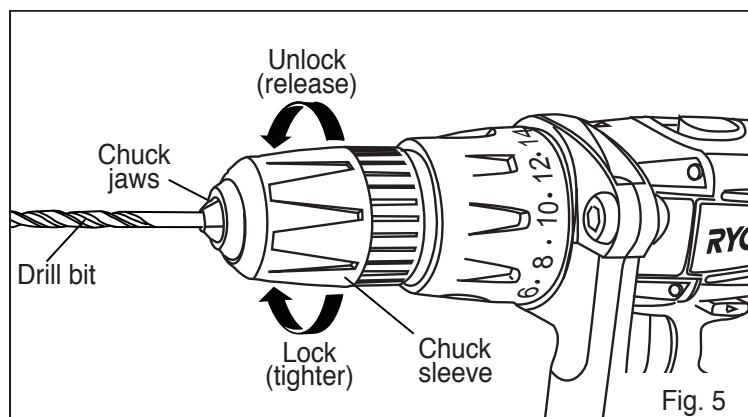
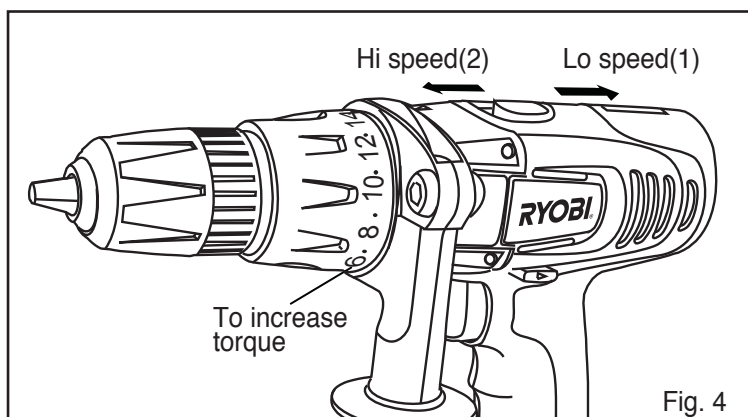
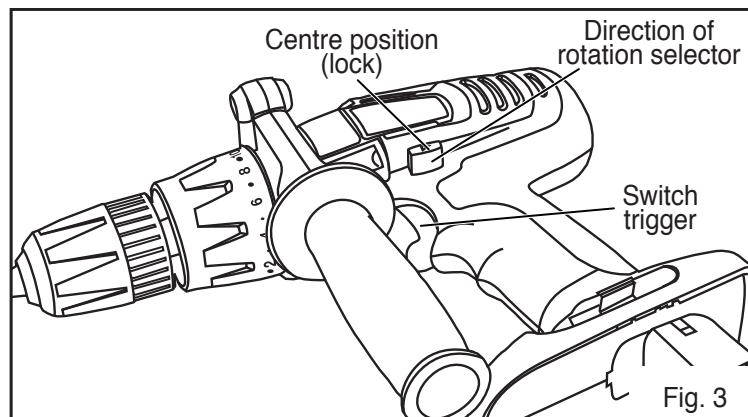
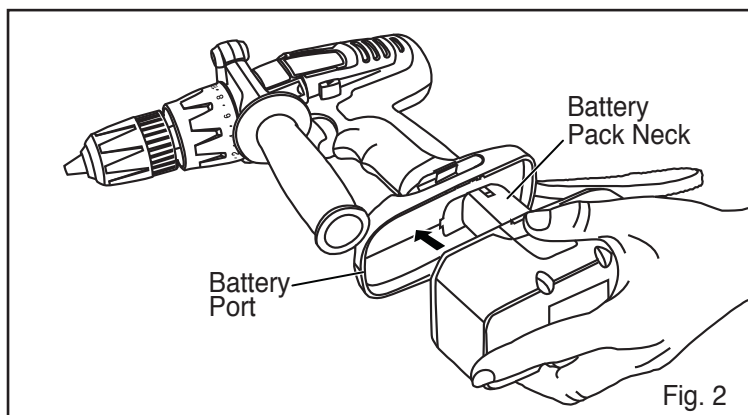
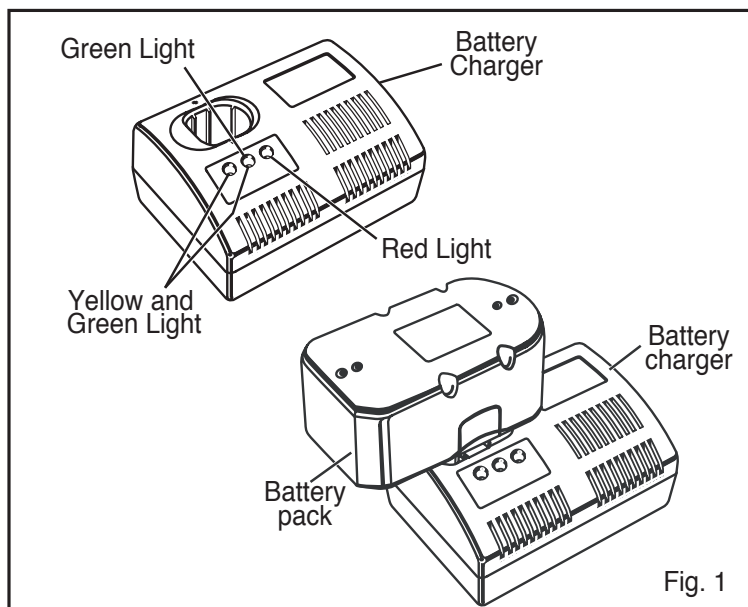
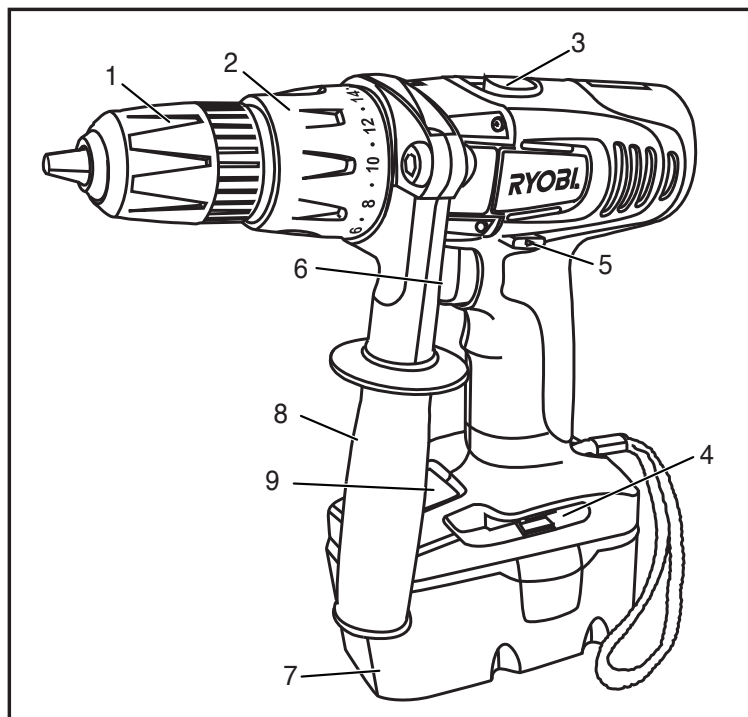
This new cordless Impact drill-driver has been engineered and manufactured to Ryobi's high standard for dependability, ease of operation, and operator safety. When properly cared for, the drill-driver will give you years of rugged, trouble-free performance.

**WARNING:** To reduce the risk of injury, the user must read and understand the operator's manual before using this product.

Thank you for buying a Ryobi product.

**SAVE THIS MANUAL FOR FUTURE REFERENCE**

1. Keyless chuck
2. Torque adjustment ring with mode selector
3. Two speed gear selector (HI-LO)
4. Bit storage area
5. Direction of rotation selector (forward/reverse)
6. Switch trigger
7. Battery pack
8. Auxiliary handle
9. LCD battery capacity indicator



# RULES FOR SAFE OPERATION

## MEANING OF SAFETY SIGNS



Wear eye protection.



Wear ear protection.



Wear dust mask.

## GENERAL SAFETY RULES



### WARNING:

Read all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The term 'power tool' in all of the warnings listed below refers to your mains operated (corded) power tool or battery operated (cordless) power tool.

## SAVE THESE INSTRUCTIONS

### WORK AREA

- **Keep work area clean and well lit.** Cluttered and dark areas invites 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 adaptor 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 cord suitable of outdoor use 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 safety equipment. Always wear eye protection.** Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- **Avoid accidental starting. Ensure the switch is in the off position before plugging in.** Carrying power tools with your finger on the switch or plugging in 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 enable better control of the power tool in unexpected situations.
- **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.
- **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly use.** Use of these devices can reduce dust related hazards.

### 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 can not be controlled with the switch is dangerous and must be repaired.
- **Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the 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. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools 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 and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from intended could result in a hazardous situation.

### BATTERY TOOL USE AND CARE

- **Ensure the switch is in the off position before inserting battery pack.** Inserting the battery pack into power tools that have the switch on invites accidents.
- **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.

## RULES FOR SAFE OPERATION

- 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 contact eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.

### SERVICE

- Have your power tool serviced by an authorised service centre using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

### MAINTENANCE

- Your power tool requires no additional lubrication or maintenance. There are no user serviceable parts in your power tool.
- Never use water or chemical cleaners to clean your power tool. Wipe clean with a dry cloth.
- Always store your power tool in a dry place.
- Keep the motor ventilation slots clean.
- If you see some sparks flashing in the ventilation slots, this is normal and will not damage your power tool.

### WORKING HINTS FOR YOUR DRILL

- If your power tool becomes too hot, set the speed to maximum and run no load for 2-3 minutes to cool the motor.
- Always use a magnetic bit holder when using short screwdriver bits.
- Where possible use a pilot hole before drilling a large diameter hole.

## OPERATION

### CONTENTS OF BOX

- 14.4V/18.0V cordless hammer drill, 2 double-ended bits, 2 battery packs, charger, auxiliary handle.

### OPERATING INSTRUCTIONS

#### CHARGING THE BATTERY PACK (fig. 1)

- The battery packs for this tool have been shipped in a low charge condition to prevent possible problems. You should, therefore, charge them prior to use.

**Note:** Batteries will not reach full charge the first time they are charged. Allow several cycles (drilling followed by recharging) for the item to fully charge. The battery charger should only be used indoors.

- Make sure power supply is normal house voltage, 240Vohs, 50Hz, AC only.
- Place the battery pack into the charger as indicated.
- Align raised rib on battery pack with groove in charger.
- Press down on battery pack to make sure contacts on battery pack engage properly with contacts in charger.
- When properly connected, the red light on charger will turn on.
- After normal usage, 1 hour of charging time is required for the battery to be fully charged.
- Note: Normally the red light on the charger will come on, this indicates charge mode. If the green and yellow lights come on, remove the battery pack, wait 1 minute and reinsert battery pack in charger. If the green and yellow lights continue to remain on an additional 15 minutes, the battery pack is damaged and will not accept charge. A maximum charge time of 1-1 1/2 hours is required to recharge a completely discharged battery.
- The battery pack will become slightly warm to the touch while charging. This is normal and does not indicate a problem.
- Do not place the charger in an area of extreme heat or cold. It will work best at normal room temperature.
- When the batteries become fully charged, the green light on charger will turn on. Unplug the charger from power supply and remove the battery pack.

### LED FUNCTION OF CHARGER

Red	□	Fast charging mode
Green and yellow	□	Control charge or defective
Green	□	Fully charged

#### TO INSTALL BATTERY PACK (fig. 2)

- Lock the switch trigger by placing the direction of rotation selector in the central position.
- To install, insert battery pack neck into drill's battery port, making sure the latches on each side snap into place and battery pack is secure before beginning operation.
- To remove, locate latches on side of battery pack and depress both sides to release battery pack from drill.

### LCD BATTERY CAPACITY INDICATOR

- The display is for guidance only. Deviations are possible for extreme applications. It will be turned on when the button is pressed, and will be turned off when the button is released.

**Note:** Indicator is for reference only and can vary according to ambience and application. For the LCD display, it so be read when you push the LCD button and the drill is on; if the drill is off, the display does not reflect actual battery capacity when you push the LCD button.

#### SWITCH (fig. 3)

- The drill is started and stopped by depressing and releasing the switch trigger.
- Release the switch trigger to turn the drill OFF.

### SWITCH LOCK

- The switch trigger can be locked in the OFF position.
- This helps to reduce the possibility of accidental starting when not in use. To lock the switch trigger, place the direction of rotation selector in the centre position.



## DIRECTION OF ROTATION

- The direction of rotation is controlled by the direction of rotation selector located above the switch trigger.
- With the drill held in normal operating position, the direction of rotation selector should be positioned to the left for forward direction.
- Direction is reversed when the selector is to the right of the switch. When the selector is in the centre position, the switch trigger is locked.

## VARIABLE SPEED

- This tool has a variable speed switch that delivers higher speed and torque with increased trigger pressure. Speed is controlled by the amount of switch trigger depression.

## TWO-SPEED GEAR SELECTOR (fig. 4)

- The drill has a two-speed gear train designed for drilling or driving at LO (1) or HI (2) speeds. A slide switch is located on top of the drill to select either LO (1) or HI (2) speed. When using the drill in the LO (1) speed range, the speed will decrease and the drill will have greater power and torque. When using the drill in the HI (2) speed range, the speed will increase and the drill will have less power and torque.

## INSTALLING AND REMOVING BITS (fig. 5)

- Lock the switch trigger by placing the direction of rotation selector in the central position.
- This will lock the switch trigger in the OFF position. Rotate the chuck sleeve to open or close the chuck jaws to a point where the opening is slightly larger than the bit size intended for use. Insert the drill bit into the chuck to the full length of the jaws. Tighten the chuck jaws on the drill bit by grasping the drill with one hand, while rotating the chuck sleeve with the other hand. To loosen the bit, grasp and hold the drill with one hand, while rotating the chuck sleeve with the other hand.

## TORQUE ADJUSTMENT (fig. 6)

- The torque is adjusted by rotating the torque adjustment ring. The torque is greater when the torque adjustment ring is set on a higher setting. The torque is less when the torque adjustment ring is set on a lower setting.
- Screwdriving/drilling
- Gear level 1 (LO) suits for small screws/drilling
- Gear level 2 (HI) suits for large screws/drilling
- The torque is set by means of an adjustment ring.
- The contact pressure on the screw has no influence on the torque. Screwdriving can be carried out from settings 1-23.
- Impact drilling
- Turn torque setting to the 'impact drilling' symbol.

## DRILLING

- When drilling hard smooth surfaces, use a centre punch to mark the desired hole location. This will prevent the drill bit from slipping off centre as the hole is started.
- Hold the tool firmly and place the tip of the bit at the point to be drilled. Depress the switch trigger to start the tool. Move the drill bit into the workpiece, applying only enough pressure to keep the bit cutting. Do not force or apply side pressure to elongate a hole.

## WOOD DRILLING

- For maximum performance, use high speed steel bits for wood drilling.
- Turn the torque adjustment ring on the drill to desired torque setting.
- Begin drilling at a very low speed to prevent the bit from slipping off the starting point.
- Increase the speed as the drill bit bites into the material.
- When drilling through holes, place a block of wood behind the workpiece to prevent ragged or splintered edges on the back side of the hole.

## METAL DRILLING

- For maximum performance, use high speed steel bits for metal or steel drilling.
- Turn the torque adjustment ring on the drill to desired torque setting.
- Begin drilling at a very low speed to prevent the bit from slipping off the starting point.
- Maintain a speed and pressure which allows cutting without overheating the bit.
- Applying too much pressure will:
  - Overheat the drill
  - Wear the bearings
  - Bend or burn bits
  - Produce off-center or irregular shaped holes
- When drilling large holes in metal, it is recommended that you drill with a small bit at first, then finish with a larger bit. Also, lubricate the bit with oil to improve drilling action and increase bit life.

## MASONRY DRILLING

- For maximum performance use carbide-tipped masonry impact bits when drilling holes in brick, tile, concrete, etc.
- Turn the mode selector on the drill to hammer mode. Rotate the torque selector to drill position. Apply light pressure and medium speed for best results in brick.
- Apply additional pressure and high speed for hard materials such as concrete.
- When drilling holes in tile, practice on a scrap piece to determine the best speed and pressure.

## DISPOSAL OF AN EXHAUSTED BATTERY



- To preserve natural resources, please recycle or dispose of the battery properly.

This product contains nickel-cadmium batteries. Consult your local waste authority for information regarding available recycling and/or disposal options.

## PREPARING BATTERY PACK FOR RECYCLING

- After removing, cover the battery pack's terminal with heavy-duty adhesive tape.
- Do not attempt to destroy or take the battery pack apart or remove any of its components. Do not touch both terminals with metal objects or body parts or a short circuit may result. Keep away from children. Failure to comply with these warnings could result in fire and/or serious injury.

## SPECIFICATIONS

Drill voltage	14.4V 	18.0 V 
Switch	variable, forward & reverse	variable, forward & reverse
Chuck	13mm keyless (steel max. Ø10mm)	13mm keyless (steel max. Ø10mm)
No load speed:		
Drill mode	0-350 / 0-1300 /min	0-400 / 0-1400 /min
Impact mode	0-4550 / 0-16900 bpm	0-5200 / 0-18200 bpm
Power supply	12 x 1.2V Ni-Cd 1500mAh	15 x 1.2V Ni-Cd 1500mAh
Torque	32Nm	35Nm
No. of Power Pack	2pcs	2pcs
Weight	2.1 kg (with battery)	2.4 kg (with battery)
Charger input	AC 240V 50Hz	AC 240V 50Hz
Charging time	1 hour (approx.)	1 hour (approx.)
Battery pack	130262022	130262021
Charger	2601050	2601038

## MAINTENANCE



### WARNING:

When servicing, use only identical replacement parts. Use of any other part may create a hazard or cause product damage.

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



### WARNING:

Do not at any time let brake fluids, gasoline, petroleum-based products, penetrating oils, etc. come in contact with plastic parts. They contain chemicals that can damage, weaken or destroy plastic.

Do not abuse power tools. Abusive practices can damage tool as well as workpiece.



### WARNING:

Do not attempt to modify this tool or create accessories not recommended for use with this tool. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious personal injury.

repair or replacement of any part shall be at the discretion of the Company or its authorised agent. If it becomes necessary during the warranty period, the owner should contact the RYOBI HELPLINE or contact the retailer from whom the Product was purchased.

To obtain warranty service, the owner must present the Product's docket and Guarantee Certificate of purchase. This product is sold by the dealer as principal and the dealer has no obligation on the part of the Company to give any additional warranty on the Company's behalf except as herein provided. This warranty is referred to.

Conditions

This warranty only applies provided that the Product is used in accordance with the manufacturer's instructions and is under normal use and reasonable wear and tear (in the opinion of the Company) and such

damaged by accident or if repairs are required due to wear and tear.

The Company accepts no additional liability for this guarantee for the costs of transportation of the Product or parts to the service dealer or agent - such costs are the responsibility of the owner of this guarantee.

Certain legislation, including the Trade Practices Act 1974 (as amended) and other state or federal legislation, give rights to the buyer and impose liability on the Company in certain circumstances. Nothing herein shall be construed as excluding, restricting or modifying the Company's guarantee, right or liability imposed, to the extent that such exclusion, restriction or modification would render any term herein void.

**RYOBI**

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