

MEMO

Aimsak

Operation Instructions



BL14RH

14.4 V ROTARY HAMMER DRILL

⚠ **WARNING** Read all safety warnings and instructions.
Failure to follow all instructions may result in electric shock, fire and / or serious personal injury.

[Cautions]

Do not attempt to overload, after consider intensity of the work using right power tools. If operating time has become excessively shorter, stop operating immediately. It may result in a risk of overheating, possible burns and even an explosion.

[Rotary Hammer Drill Safety Warning]

- ▶ The rotary hammer drill is designed to generate vibration in normal operation. Vibration can easily loosen the screws of the tool; please check carefully the screw tightening condition.
- ▶ Please keep a stable posture when working and hold the tool firmly with both hands before proceed to work.

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Aimsak

MADE IN KOREA (2017-01)

PU050255

Aimsak Inc.

【 Tool Specification 】

► Specification

| | BL14RH Rotary Hammer Drill |
|------------------|-------------------------------|
| Voltage | 14.4 Vd.c. |
| No load speed | 0~1,000 rpm |
| Blows per minute | 0~7,300 bpm |
| Impact energy | 1.3 J |
| Chuck capacity | SDS Plus |
| Switch | Variable speed control |
| Net. Weight | 2.0 kg |

► Contents

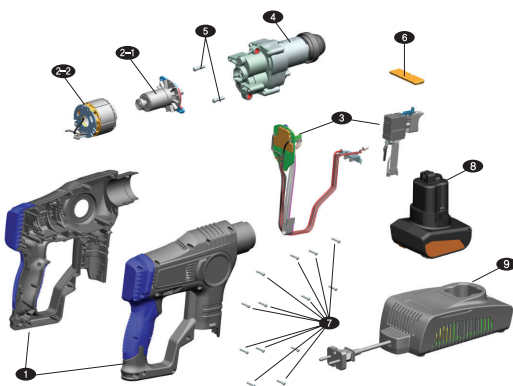
| | BL14RH |
|------------------------|--------|
| Cordless Tool | 1 EA |
| Battery | 2 EA |
| Charger | 1 EA |
| Operation Instructions | 1 EA |
| Plastic Case | 1 EA |

- ※ The Specifications herein are subject to change without notice,
 ※ Note : Specification may be changed by the requirement of country.

【 Exploded View 】

BL14RH

* 14.4 V Rotary Hammer Drill



- ※ The Specifications herein are subject to change without notice,

Part Name

| NO. | Part Name | Q'ty |
|-----|-----------------|------|
| 1 | Housing | 1 |
| 2-1 | Rotor | 1 |
| 2-2 | Stator | 1 |
| 3 | Switch | 1 |
| 4 | Gear Box | 1 |
| 5 | Screw | 2 |
| 6 | Reversing Lever | 1 |
| 7 | Star Screw | 13 |
| 8 | Battery | 2 |
| 9 | Charger | 1 |

【 Safety Instructions 】

⚠ WARNING Read all safety warnings and instructions.

Failure to follow all instructions may result in electric shock, fire and / or serious personal injury.

Save all warnings and instructions for future reference.

The term "Power tool" in the warnings refers to corded power tool or battery operated power tool.

1. Work area

- **Keep work area clean and well lit.** Cluttered and dark area may cause injuries.
- **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 power tool.** Distractions can cause you to lose control.

2. Electrical safety

- **Power tool plugs must match the outlet. Never modify the plug in anyway. 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 the earthed of grounded surface, 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 power tools in outdoor, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor 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.

3. Personal safety

- **Stay alert, watch what you are doing and use common sense when operating power tools.** Do not use power tools 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 proper eye protection.** Safety equipment such as dusk-mask, non-skid safety shoes and heating protection, must be used for appropriate conditions. These will reduce personal injuries.
- **Prevent unintentional starting.** Ensure the switch is 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 may cause accidents.
- **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a retaining 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 of 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 used.** Use of dust collection can reduce dust-related hazards.

4. Use and care

- ▶ **Do not force the power tool.** Use the correct power tool for your application. The correct application 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 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.
- ▶ **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, taking into account the working conditions and the work to be performed.** Use of the power tool for different operations from those intended could result in a hazardous situation.

5. Li-ion Battery use and care

- ▶ **Li-ion Battery can be recharged by 100% even if is not fully discharged.** (Li-ion battery has no memory effect*)
- * Memory effect : After first use, or neglect long-term use 70~80% of the exercise becomes ability phenomenon.
- ▶ **Use power tools with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- ▶ **Ensure that the outside surface of battery terminal is clean.** It causes fire, explosion.
- ▶ **Cool off the power tool for 10 minutes before you replace to a new battery if you operated until discharged.** Heat leads to damage of tool and battery.
- ▶ **Do not disassemble the battery, and protect against shock.** Short circuits occurs and may cause fires and explosions.
- ▶ **Allow heated batteries to cool off before charging.** Please refer to the enclosed with an NTC temperature monitor which allows charging only within a temperature range of 0~55°C. Or it will cause serious damaged to the battery pack.

- ▶ **Do not use the battery charger connect to transformers as DC power charger or engine generator.** Due to failure and fire.
- ▶ **This charger has been designed to stop to charge the battery in cold weather below 0°C.** Do charge the battery cartridge at room temperature – 0°C~45°C (32°F ~113°F).
- ▶ **Please avoid enclosed place while charging and use in well-ventilated place.** Also, do not cover with fabrics and vinyl while charging due to risk of fire.
- ▶ **Do not disassemble the battery charger randomly due to risk of failure.**
- ▶ **Have your battery charger repaired by an authorized Aimsak Service Center.**

6. 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. This will prolong the useful life of the battery and can be recharged up to 2,000 times when used properly.
- ▶ **(+) and (–) terminal avoid to contact with metal.** Also do not keep and move with metal necklace and hairpin, due to risk of fires, burns and explosion by short-circuit.
- ▶ **Do not connect (+) and (–) in reverse, do not charge as (+) and (–) polarity in changed.** Charging as the change of polarity is a risk of fire or explosion.
- ▶ **Do not expose battery to water or rain.**
- ▶ **Never completely discharge the battery pack.** Not using for long time, please recharge once in 3 months. It can not be charged when completely discharged. If so, please contact nearest A/S center.
- ▶ **Do not discharge Li-ion battery completely as fully discharged battery may cause not to charge the battery properly.** In this case, contact authorized service center to solve it.
- ▶ **Ensure that batteries are charged using the correct charger recommended by the manufacturer.** Otherwise, It may invite the risk of fire or explosion.
- ▶ **Do not expose the battery to the sunshine for a long time period due to risk of fire and explosion.**
- ▶ **Overloading or using in high temperature causes to leak electrolyte of battery.** If the seal is broken or flowing leakage contact with skin, wash immediately with soap and water. Ensure that if electrolyte gets in to your eyes, rinse them out with water and seek medical attention right away. Liquid comes out from the battery irritates skin and causes fire.
- ▶ **Do not put next to fire or burn it even if it is damaged badly or completely discharged** due to risk of fire and explosion.
- ▶ **Ensure battery is disposed of safely as instructed by manufacturer.** Do not throw the battery away in household garbage, fire or water due to risk of fire, explosion and environmental pollution.

◆ Li-ion Battery Charger Instructions.

⚠ WARNING! Use the correct voltage of charger.

- ▶ Do not charge other manufacturer batteries other than 'Aimsak' s one. The appliance is only suitable for charging Aimsak batteries due to risk of fire and explosion,
- ▶ Ensure that the plug and power cord is properly appropriated,
Do not use damaged charger due to electric shock,
- ▶ Ensure the switch is off position before inserting battery pack. Inserting the battery pack into power tools that have the switch on may cause accidents,
- ▶ Keep the battery charger in a dry and frost-free place. Enter water in the battery charger create failure and electric shock,
- ▶ Do not carry the battery charger with power cord and not to plug out with the wire.
Protect from heat, water and sharp edge due to risk of short-circuit,
- ▶ Plug out immediately if battery charger is damaged or heated due to fire and explosion when charging continuously,
- ▶ Ensure that charger terminal is clean. Pollution causes electric shock,
- ▶ Do not charge and operate the battery charger on combustible ground or surroundings due to its heating during the charging process. Heated battery charger currents may cause fire,

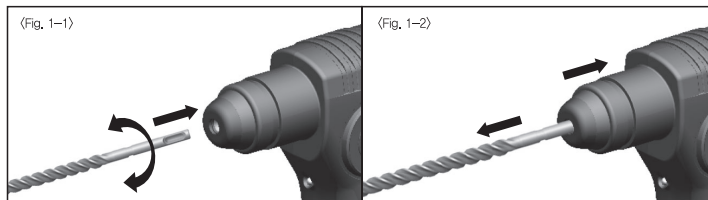
【 Rotary hammer drill Safety Instructions】

- ▶ Wear proper ear protection. Exposure to noise can damage your hearing,
- ▶ Wear safety goggles or other proper eye protection and dust mask. Debris may be blown during hammer work and may damage permanently eye vision,
- ▶ Do not use this tool for long periods of time. Vibration from hammer operation can be harmful to your hands and arms. Using gloves with an additional cushioning can be useful. You should often need to rest and limit exposure by vibration,
- ▶ Wear gloves when operating tools or changing bits. Please beware of serious burns.
The metal parts of tools and bits during or immediately after the operation of the tool may cause burns due to an overheated parts,
- ▶ Do not adjust or use the tool until the bit stops completely. Always be sure that the tool is switched off first. Keep your hands away from all moving parts which can result in serious injury,
- ▶ Do not hit it with a hammer to remove the tangled bits. Debris from metal or metal jaws can travel and cause injury,
- ▶ Do not place the power cord near rotating bits and wrap the cord around your body.
The electric cord wrapped around the spinning bit can cause you to lose control,
- ▶ When performing a task where the cutting tool may touch hidden wiring, hold the power tool by touching the insulated gripping surface. Contact with live wires can cause current to flow through the exposed metal parts of the tool, which can cause an electric shock,
- ▶ Fasten and support the work tools on a stable workbench using clamps or other good work practices.
The action of holding a workpiece by hand or poor physical motion can cause unstable and lose control,
- ▶ Always hold the tool firmly. Do not attempt to operate this tool without holding the tool with both hands,

【 Operating Instructions 】

▶ Installing or removing bit (Refer to Fig. 1-1, 1-2)

- 1) Turn off the switch and set the reverse lever to neutral,
- 2) Fit the rotary hammer drill bit by pushing it as shown in (Figure 1-1). Press and turn until the bit locks in place
– Press and turn until the bit locks in place,
– After mounting the bit, make sure that the bit is properly installed. Make sure it does not move,
- 3) Pull the sleeve in the direction of arrow ① in (Figure 1-2) and hold the bit ② Pull the direction of the arrow to separate the bit,



▶ Operation mode selection (Refer to Fig. 2)

⚠ **caution!** Do not turn the Change Operating Mode knob while the tool is running. It may cause damage to the tool.



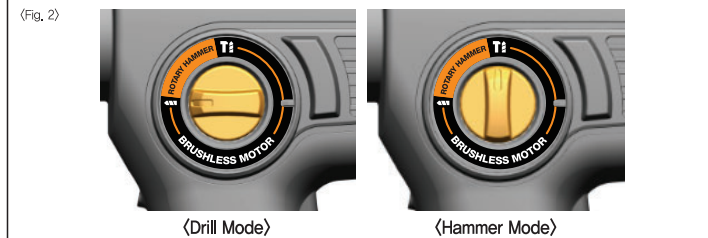
(DRILL)

When working with metal drills, it is recommend to use well-polished HSS drill bits. Otherwise, there will be a drop in product performance,



(HAMMER
DRILL)

When working with the hammer, you must work with concrete bits. Otherwise, product performance will be degraded,



► **Overload clutch** *There are two types of overload clutch, BL14RH is equipped with electronic overload clutch.

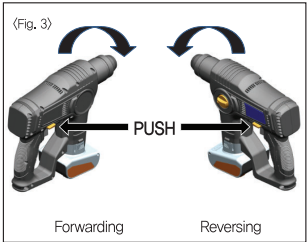
If the drill bit is engaged, the driving force to the drill spindle is cut off. This is not a malfunction, and it works to protect the product from overload. The trigger is released and then pressed to start it again. For the repulsive force caused by the operation of the overload clutch, always hold the device with both hands firmly.

► **Reversing the Rotational Direction**

◁Refer to Fig. 3▷

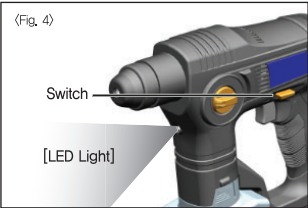
Clockwise rotation press the reversing lever as the picture, (Screwing in and tightening)
Counterclockwise rotation depress the reversing lever as the picture, (Releasing screw operation)

Caution! Use the reversing switch only after the tool comes to a complete stop.



► **Switch action** ◁Refer to Fig. 4▷

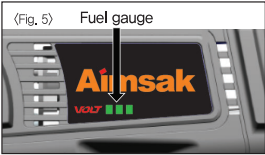
To start the tool, simply pull the switch trigger. Tool speed increases by increasing pressure on the switch trigger. Release the switch trigger to stop. Safety brake devices are set to the switch and stop immediately when you release the switch. Pull the switch trigger to light up the lamp. The lamp keeps on lighting while the switch trigger is being pulled. The lamp goes out after releasing the trigger.



► **Fuel gauge** ◁Refer to Fig. 5▷

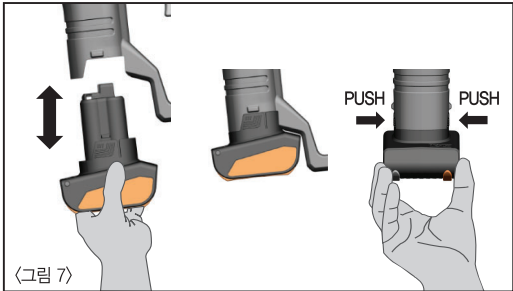
Lamp on the fuel gauge panel go out several seconds after releasing the switch trigger. Please refer to the following table for the LED indicator status and the remaining battery capacity.

| Indicator | Remaining battery capacity |
|---------------------|----------------------------|
| ■ ■ ■ Full light on | (Over) 80 % |
| □ ■ ■ Light on | 50~80 % |
| □ □ ■ Light on | 20~50 % |
| □ □ □ OFF | (Below) 20 % |







► **Installing and removing battery** ◁Refer to Fig. 6▷

Do not use force when inserting the battery. To insert the battery, align the tongue on the battery with the groove in the housing and slip into place. Always insert it all the way until it locks in place with a little click. If not, it may accidentally fall out of the tool. To remove the battery, withdraw it from the tool while pressing the buttons on both sides of the battery.







► Available Charger and Battery

| | Battery | Available Charger | |
|--|-------------------------------|---|--|
|  | B20P14A B26P14A |  ALC 3540 |  ALC 3540M |
|  | B40P14A B52P14A B60P14A | | |

※ Charging battery B20P14A, B26P14A, B40P14A, B52P14A, B60P14A use the charger ALC 3540, ALC 3540M which can be checked voltage of each battery cell.

→ Prevent overcharge for life and safety of battery.

► Indicators and Meaning (ALC 3540, ALC 3540M)

| Indicators | Meaning |
|--|---|
| Standby  ► Green LED Flickering | ► Battery charging is workable. |
| Charging  ► Red LED on | ► Battery is being charged. |
| Finish  ► Green LED on | ► Fully charged. |
| Battery High Temperature  ► Red & Green LED on Battery low voltage Red/Green | ► Battery temperature has missed the normal range (0~45 °C) Charge will automatically start when allowable temperature is reached. ► Pre-charging mode voltage of the battery is low, (When a constant voltage charging mode is switched to rise,) |

► Charger troubleshooting

- If the LED lamp does not work,
 - Check connection of power cord into the outlet,
 - Check the cleanliness of power cord and battery terminal,
 - Insert another battery to check the charger working normally,
 - The green LED flickering when the battery is applied,
 - Low temperature : Let stand at room temperature until normal temperature,
- ※ If this self : Checking does not solve the problem, please contact with Aimsak or authorized service center nearest you,

► Symbols

The following symbols are important for reading and understanding the operating instructions. Please take note of the symbols and their meaning.
The correct interpretation of the symbols will help you to use the machine in a better and safer manner.



Read all safety instructions



Wear hand protection



Wear head protection



Wear eye protection



Wear hearing protection



Wear dust mask



Caution for Hot surface



Caution for High voltage

【 Maintenance & Storage 】

Always be sure that the tool is switched off and the battery is removed before attempting to perform inspection or maintenance.

- ▶ Keep the tool clean and inspect it regularly.

【 Warranty 】

- ▶ It is warranted 1 year to be free of defects from workmanship and materials for the period of origin purchase. Some states do not allow the exclusion or limitation or incidental or consequential damages, so the limitation or exclusion below may not apply to you.

- Motor, battery is warranted 6 months since the period of origin purchase.
- Battery is consumable item and you need to buy new battery.

- ▶ This warranty does not apply where

- Repairs have been made or attempted by others ; (such as immersion, external shock, overload operation)
- Natural disasters (fire, earthquake, flood etc)
- Repairs are required because of normal wear and tear ;
- The tool has been abused, misused or improperly maintained ;
- Alterations have been made.

Use within the scope of the tasks listed in the manual.

Otherwise, the equipment get damaged, shorten life or get injured.

and we do not have the responsibility and not able to repair your power tool.

【 Environmental Protection 】



Do not dispose of power tools and batteries into household waste.

Do not dispose of power tools and batteries into fire or ocean.

Be sorted for environmental-friendly recycling.

Defective or dead out battery packs must be recycled.



Power tools and batteries that are no longer usable must be collected separately and disposed of in an environmentally correct manner.

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