

[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.

◆ 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.

<Symbols>



Read all safety instructions



Wear hand protection



Wear hearing protection



Wear eye protection



Wear dust mask



Caution for hot surface



Caution for High Voltage

Aimsak

Operation Instructions



AR 414C 14.4V RECIPROCATING SAW

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[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.
- ▶ Always be sure that the dust-cap is installed, when you work on the ceiling with dust, if you do not installed dust-cap, it may cause the tool will be breakdown.

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

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MADE IN KOREA
(2016-08)

PU050234

Aimsak Inc.

[Tool Specification]

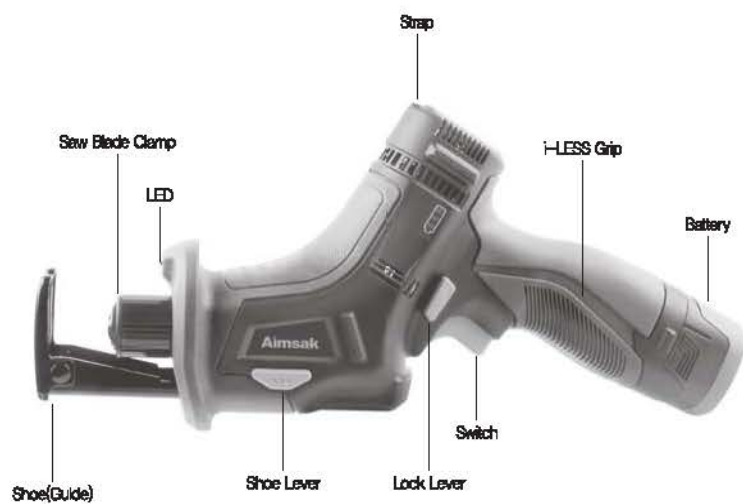
► Specification

	AR 414C
Voltage	14.4 Vdc.
No load speed	0~3,400 rpm
Stroke	15mm
Switch	Variable Speed Control
Battery	Li-ion 14.4 V / 2.0 Ah
Net. Weight	1.28 kg

► Contents

	Q'ty
Reciprocating Saw	1 EA
Battery	2 EA
Charger	1 EA
Operation Instructions	1 EA
Plastic Case	1 EA
Dust Protection Cap	1 EA

[Part Name]



[Exploded View]

AR 414C



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

Part Name

NO.	Part Name	Q'ty
1	Housing	1
2	Motor	1
3	Switch	1
4	Gear Box	1
5	Lock Lever	1
6	Star Screw	2
7	Shoe Lever	1
8	Strap	1
9	Bead	2
10	Housing Clamp	2
11	Star Screw	8
12	Battery	2
13	Charger	1
14	Dust Protection Cap	1

【 Safety Instructions 】

⚠ WARNING Read all safety warnings and instructions. Failure to follow all instructions listed below 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 invites 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 tools.

Distractions can cause you to lose control.

2. 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 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 eye protection.

Safety equipment such as dust-mask, non-skid safety shoes and hearing protection, must be used for appropriate conditions. These 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 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, 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 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.

5. Li-Ion Battery use and care

◆ Li-Ion battery can be recharged by 100% even it 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 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 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 to 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, device and flowing leakage contact with skin and 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 only except 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 code is abnormalities.** Do not use damaged charger. Due to electric shock.
- ▶ **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.
- ▶ **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 code 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 to fire.

◆ Indicators and Meaning (ALC 3540, 3540M, 4540, 4560, 4640M, 4650)

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 temperature has missed the normal range(0~45°C). Charge will automatically start when allowable temperature is reached.
Battery low voltage 	Red / Green	▶ Pre-charging mode voltage of the battery is low. (When a constant voltage charging mode is switched to rise.)

◆ Charger troubleshooting

1. If the LED lamp do 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.
 2. If 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.

▶ Battery Protection System

* The tool will automatically stop during operation if the tool/battery are placed under one of the following conditions.

Trouble		Troubleshooting	LED
Low voltage	The remaining battery capacity is too low and the tool will not operate.	Remove and recharge the battery.	Flicker on and off
Overload	Cuts off the power to the motor in the event of overloading the motor during operation.	Pull the switch trigger again to restart. If the tool does not start, let the tool cool before pulling the switch trigger again.	
Overheated	Cuts off the power to the motor before the battery temperature rises to a harmful level.		

◁ Available Charger and Battery ▷

	Voltage	Battery	Available Charger	
	14.4V	B20P14A B26P14A B52P14A	 ALC 3540	 ALC 3540M
	10.8V	B13P12 B13P12N B15P12	 ALC 3530  ALC 3540  ALC 3540M	
	14.4V	B13P14 B15P14 B15P14N		
	18V	B15P18		

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

→ Prevent overcharge for life and safety of battery.

→ Charger ALC 3530 is not compatible.

【 Operating Instructions 】

◆ Precaution

▶ Metal

Always use a suitable coolant(cutting oil) when cutting metal. Failure to do so will cause premature blade wear.

▶ Wood

Avoid cutting treated wood included material to harmful for human such as lead-based paint and so on. It may cause to impair your health. Wood dust particles may result allergic reaction and asthma to contact a partical of dust and inhale it. A beech and Oak may cause serious health problem. Some material contains chemicals which may be toxic. Take caution to prevent dust inhalation and skin contact. Follow material supplier safety data.

- Power tools create sparks which may ignite the dust or fumes.
- Make sure that work area is well ventilated.
- Always use safety goggles or glasses with side shields.
- Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.



▶ Installing or removing the blade (Refer to Fig. 1)

1. The Switch off first and be sure that push the lock-button[] and make the tool doesn't operate.
2. The blade clamp sleeve rotates and hold in this position, insert the blade into the blade clamp as far as it will go.

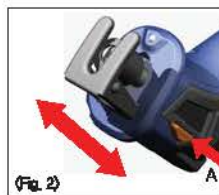
- * Make sure that the blade cannot be extracted even though you try to pull it out.
- * If you do not insert the blade deep enough, the blade may be ejected unexpectedly during operation. This can be extremely dangerous.



▶ Setting the guide (Refer to Fig. 2)

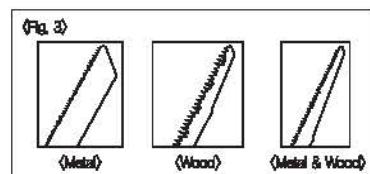
The cutting depth can be limited by shifting the guide. Occasionally shift the guide to achieve even wear of the saw blade to shift the guide, press on the guide button "A" direction and shift guide desired position (5 steps).

- * Always be sure that the tool is switched off and the battery pack is removed before shift guide.
- * If you do not switched off and battery removed, it may cause in a serious injury.



▶ Select of the blade (Refer to Fig. 3)

Only use accessory or attachment for its stated purpose. It will help to enhance a work efficiency and to lengthen the life of the blade.

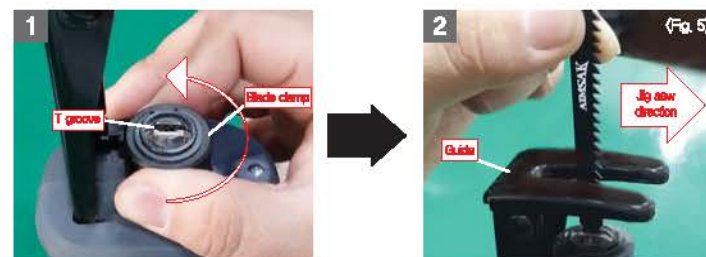


▶ Switch action (Refer to Fig. 4)

Pull the lock release lever[] 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.

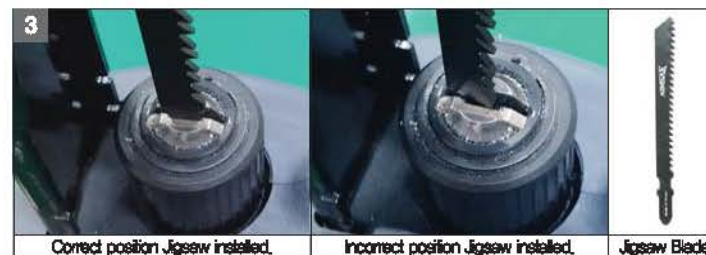


▶ Switch action



1. Rotate the blade clamp sleeve in the direction of the arrow fully (90°)

2. While holding the blade clamp in the rotated position, insert the Jig saw blade into the blade clamp as far as it will go. (Refer to Fig. 5)
(If the Blade is inserted by Fig 5, You can get a better result due to the position is being cut do not covered by the Guide)



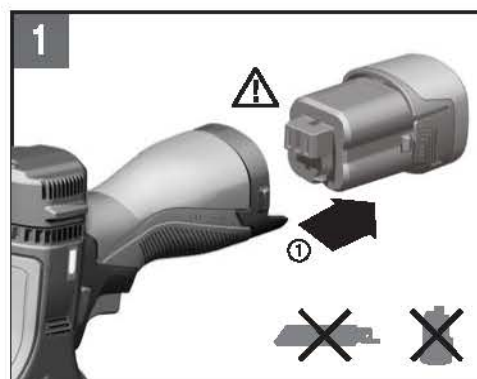
3. The Jigsaw blade should be located in the center of the blade clamp(T groove)
4. Grip the back of Jigsaw blade and pull it two or three times to verify that it is securely attached.

- * If you do not insert the Jig saw blade deep enough, the blade may be ejected unexpectedly during operation. This can be extremely dangerous.

Installed Jig saw blade	Inside of T groove	Way of install the Jig saw blade
<p>The position to be locate with T groove</p> <p>Installed to T groove</p>	<p>Non-opened PIN(before installed)</p> <p>Opened PIN(after installed)</p>	<p>T groove</p> <p>PIN</p> <p>Jigsaw Blade</p>

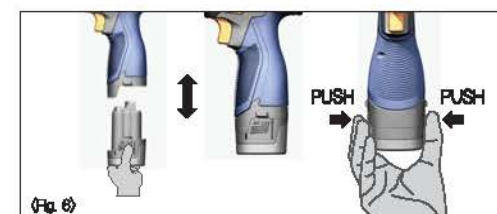
► Installing Dust Protection Cap

- * Anti-dust cap can be protectible the tool from dust particles.
- * Anti-dust cap should be installed after the blade and battery are removed.



► 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.



► Fuel gauge (Refer to Fig. 7)

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%



[Maintenance & Storage]

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

- Keep the tool clean and inspect it regularly.
- Use only a dry, soft cloth for wiping the tool. Do not use a damp cloth, thinner, benzene or other volatile solvents for cleaning.
- Lubricate periodically on the surface of piston with suitable lubrication oil. (Refer to Fig. 8)
(If Do not lubricate, the tool does not lengthen the life)

