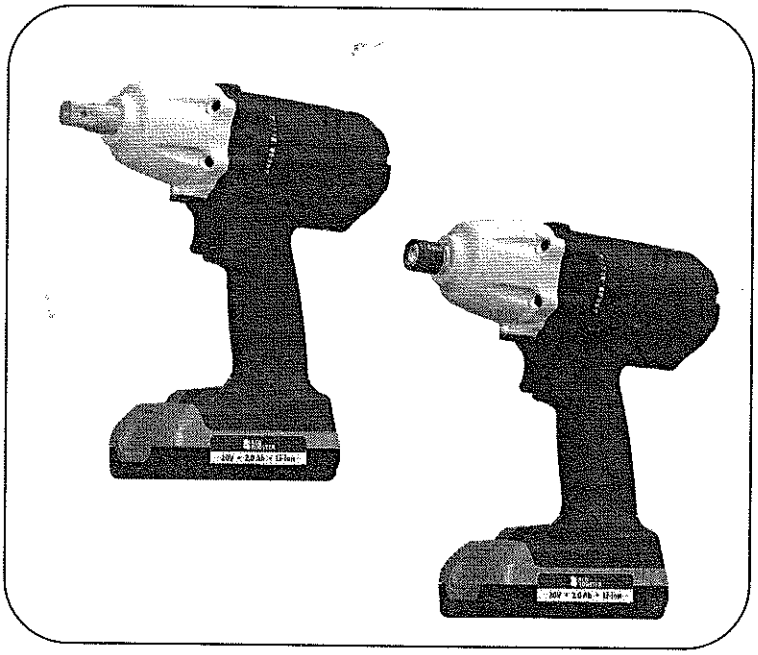
RED ROOSTER

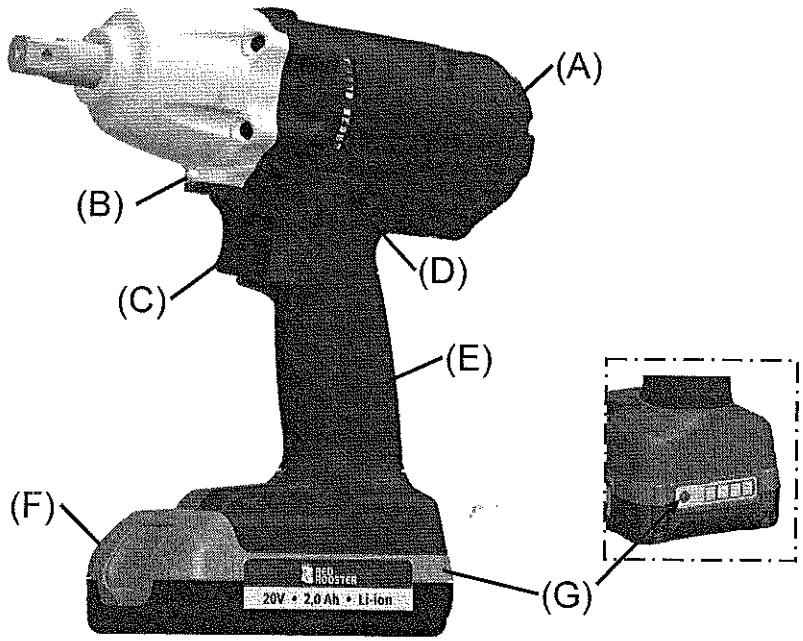
INSTRUCTION MANUAL

MODEL NO.: RRI-BI32T
RRI-BI55T
RRI-BI100T
RRI-BI120T

20V Cordless Shut Off Impact Tool (Brushless motor)

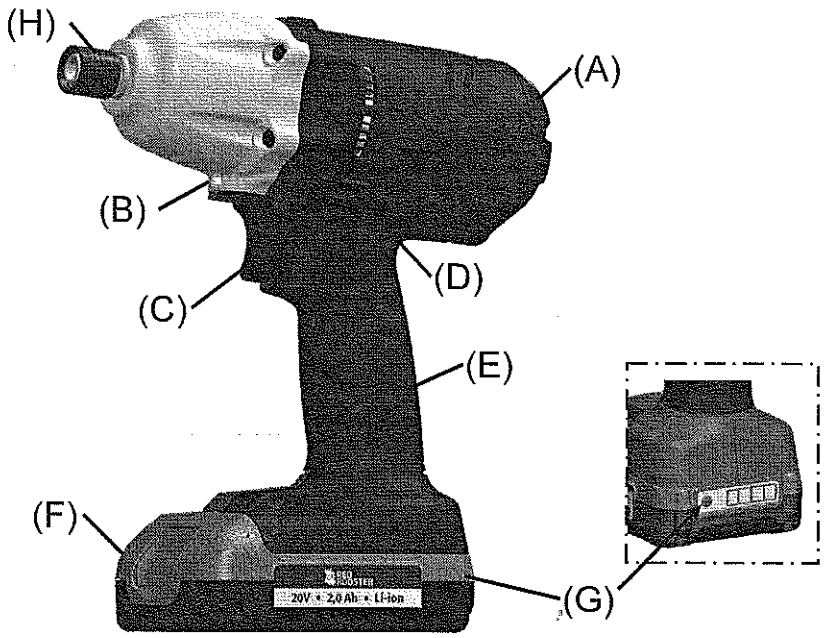


WRENCH-
FUNCTIONAL GUIDES



(A)	LED indicator provides simple process information to the operator. The signal is visible from any angle.
(B)	LED light for working in dark area.
(C)	Non-contact switch provides longer life with less downtime. Variable speed control trigger.
(D)	F/R button for ease of ergonomic operation.
(E)	Shock absorbing, ergonomic grip provides less fatigue with well-balanced operation.
(F)	Li-ion battery offers longer life with no memory effect.
(G)	Smart battery with capacity indicator.

SCREWDRIVER-
FUNCTIONAL GUIDES



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(G)	Smart battery with capacity indicator.
(H)	1/4" Hex with quick change chuck.

WARNING! "READ ALL INSTRUCTIONS" Always observe the safety regulations applicable in your country to reduce the risk of fire, electric shock and personal injury. Understand the following safety instructions before attempting to operate this product. Always wear eye protection when working with power tools. Keep these instructions in a safe place.

SAVE THESE INSTRUCTIONS

General Safety Rules

Work Area Safety

- **Keep your work area clean and well lit.** Cluttered benches and 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 bystanders, children, and visitors away while operating a power tool.** Distractions can cause you to lose control.

Personal Safety

- **Stay alert watch what you are doing and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair can be caught in moving parts.
- **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control on the tool in unexpected situations.
- **Use safety equipment. Always wear eye protection.** Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.

Tool Use and Care

- **Use clamps or other practical ways to secure and support the work piece to a stable platform.** Holding the work piece by hand or against your body is unstable and may lead to loss of control.
- **Do not force tools. Use the correct tool for your application.** The correct tool will do the job better and safer at the rate for which it is designed.
- **Do not use tool if switch does not turn it on or off.** Any tool that cannot be controlled with the switch is dangerous and must be repaired.
- **Store idle tools out of reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
- **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool operation. If damaged, have the tool serviced before using.** Many accidents are caused by poorly maintained tools.

- **Use only accessories that are recommended by the manufacturer for your model.** Accessories that may be suitable for one tool, may become hazardous when used on another tool.

Service

- **Tool service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified personnel could result in a risk of injury.
- **When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual.** Use of unauthorized parts or failure to follow maintenance instructions may create a risk of electric shock or injury.

Additional Safety Rules for Shut Off Impact Tool

Battery Charger

- Caution: To reduce risk of injury, charge only the authorized batteries. Other types of battery may burst, causing personal injury and damage.
- Before using battery charger, read all instructions and cautionary markings on batteries, chargers and products using batteries.
- Do not allow anything to cover or clog the charger vents.
- Do not expose charger to rain, snow or wet conditions.
- To reduce the risk of damage to electric plug and cord, pull by plug rather than cord when disconnecting charger.
- Use of an attachment not recommended or sold by the manufacturer may result in a risk of fire, electric shock, or injury to persons.
- Make sure cord for charger is located so that it will not be stepped on, tripped on, tripped over, or otherwise subjected to damage or stress.
- Do not abuse the power cord. Never use the cord to carry the charger. Keep cord away from heat, oil, water, sharp edges, or moving parts. Replace damaged cords immediately.
- Do not operate charger if it has been damaged in any way, take it to a qualified service center for repair.
- To reduce risk of electric shock, unplug charger from outlet before attempting any maintenance or cleaning. Turning off controls will not reduce this risk.
- Do not disassemble charger or battery cartridge, take it to a qualified service center when repair is required. Incorrect reassembly may result in a risk of electric shock or fire.

Battery Pack

- Do not charge battery pack when temperature is below 0°C (32°F) or above 40°C (104°F).
- Do not attempt to use a step-down transformer, an engine generator or DC power receptacle.
- Do not short the battery pack: Do not touch the terminals with any conductive material. Avoid storing battery cartridge in a container with other metal objects such as nails, coins, paper clips, etc.
- Do not expose battery cartridge to water or rain. A battery short can cause large current flow, overheating, possibly burns and even a break-down.

- Do not store the machine and battery pack in locations where the temperature may reach or exceed 50°C (122°F).
- Do not incinerate the battery pack even if it is severely damaged or completely worn out. The battery pack can explode in a fire.
- Be careful not to drop, shake, or strike the battery.
- Do not charge inside a box or container of any kind. The battery must be placed in a well ventilated are during charging.
- Do not dispose of battery packs into household waste, fire or water. Battery packs should be collected, recycled or disposed of in an environmentally-friendly manner. Call the authorized warranty centers for places to dispose of damaged or inoperable batteries.

FUNCTIONAL DESCRIPTION

FOR WRENCH

This industrial shut off wrench is designed for nut tightening/loosening and screw driving/loosening. It is not appropriate to use for wood/mild steel drilling. Please refer to the figure on the page to familiarize yourself with the major components of this tool before use.

1. **Power Switch**
   Depressing the power switch will energize the LED light **(2)** in front and the tool starts to rotate. When released, power to the motor will cease and the tool stops to work immediately. But the LED light will remain for 5 seconds then off.

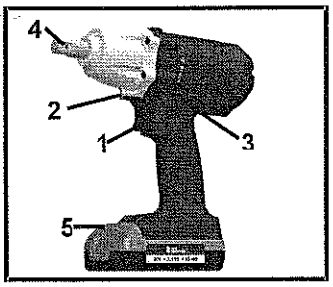
3. **Forward/Reverse Button**
   The tool is always in forward operation unless the Forward/Reverse button is pressed. When the button is pressed, blue LED sustains and the yellow & green LED flash together, to indicate the tool being in reverse operation. To get the tool back in forward operation, just simply press the button again and the LED would disappear and the tool is back in forward operation.

4. **Anvil (Drive Shaft)**
   The anvil will accept drive hex socket. Be sure the socket is fully inserted before operating tool. Otherwise, the socket may fly off and cause property damage or personal injury.

WARNING: Just only use the sleeve sockets.

5. **Li-ion Battery**
   This battery provides electrical power to the motor. Please charge it according to the charging instruction listed in this manual.

WARNING: Use the tool to either tighten or loosen nuts and screws ONLY in stipulated torque and voltage



Information to know:
1)No lights on the tools indicates the tool is in SLEEP mode. To wake up the tool, just to press the trigger. The tools will be ready to use.
2)After operating the tool, the impulse setting number will be remained on the display for 5 mins. As the number disappears, the tool goes into SLEEP mode.

FUNCTIONAL DESCRIPTION FOR SCREWDRIVER

This industrial shut off screwdriver is designed for nut tightening/loosening and screw driving/loosening. It is not appropriate to use for wood/mild steel drilling. Please refer to the figure on the page to familiarize yourself with the major components of this tool before use.

1. Power Switch

Depressing the power switch will energize the LED light **(2)** in front and the tool starts to rotate. When released, power to the motor will cease and the tool stops to work immediately. But the LED light will remain for 5 seconds then off.

3. Forward/Reverse Button

The tool is always in forward operation unless the Forward/Reverse button is pressed. When the button is pressed, the yellow and green LED flash together, the tool will be in reverse operation. To get the tool back in forward operation, just simply press the button again and the LED would disappear and the tool is back in forward operation.

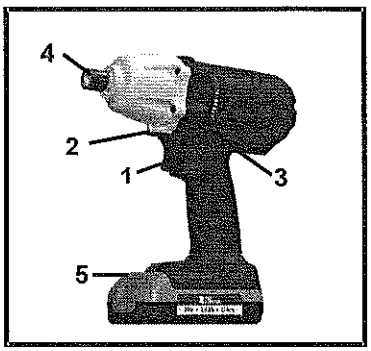
4. Quick Change Holder

This driver accepts only 1/4" (6.35mm) hexagonal bits. Be sure the bit is fully engaged by the chuck before operating tool. Otherwise, the bit may fly off and cause property damage or personal injury.

5. Li-ion Battery

This battery provides electrical power to the motor. Please charge it according to the charging instruction listed in this manual.

WARNING: Use the tool to either tighten or loosen nuts and screws ONLY in stipulated torque and voltage ranges.



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2)After operating the tool, the impulse setting number will be remained on the display for 5 mins. As the number disappears, the tool goes into SLEEP mode.

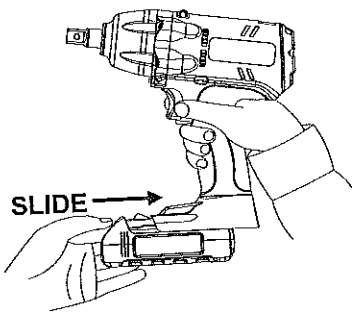
ASSEMBLY

Check for damage to the tool; parts or accessories which may have occurred during transport. Take the time to thoroughly read and understand this manual prior to operation.

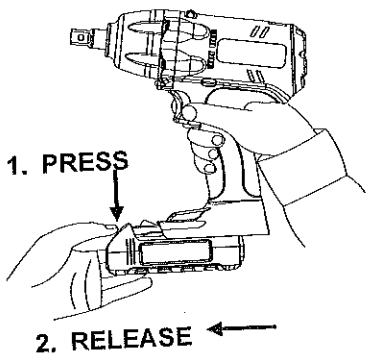
This tool kit contains:
- 1 20V Cordless Shut off Impact Tool
- 1 instruction manual

Attaching or Removing Battery Pack

1. To connect battery, line up the tracks and attach the battery pack. Slide toward the battery pack until it locks into position with a click.



2. To remove the battery pack, press the button on the top of the battery pack and release the battery pack.



OPERATIONS

This product had been carefully inspected prior to leaving the factory. It should provide you with years of satisfying service under normal operating conditions. Do not, however, force the tool to perform outside its design parameters. Such usage will void the warranty.

WARNING! Read the manual instruction before operating the tool. Always wear safety glasses or face-shields when operating this product. Failure to do so can result in dust, shavings or loose particles being thrown into your eyes.

1. Slide battery into the bottom of the housing handle until a click sound occurs. Do not force battery as it should slide easily into place with nominal force. Any difficulty doing so would indicate an incorrect alignment.
2. Select a proper size drive bit and insert into the quick change holder.
3. Depress the trigger to engage the LED light and the tool starts to work. Check the torque on the digital tester to see if the desired torque reached. Torque can also be adjusted by the torque setting button.
4. When the torque is reach, the tool will shut off automatically.

Forward/ Reverse Rotation Switch Operation

To prevent damage, do not press Forward/Reverse button until the anvil comes a complete stop.

Forward Rotation Operation

The tool is in forward operation if the blue light is not on.

Reverse Rotation Operation

Reverse operation can be adjusted by pressing the Forward/Reverse button.

Tool needs to be adjusted manually to return to Forward operation after reverse operation.

The process to lock the Reverse

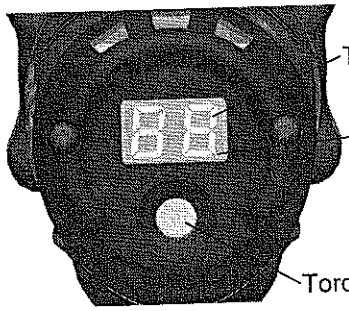
1. To remove the battery pack
2. To press one of the F/R switches.
3. To insert the battery pack.
4. After 6 sec., releasing the F/R switch while the warning noise sounding.
5. When the warning noise sounds again means the setting completed.
   Note: When the Reverse Locked mode set, the tool will always run at forward direction, the reverse switches will be lost their function.
6. To do the process 1~5 to remove the reverse lock function.

The process to adjust the torque setting

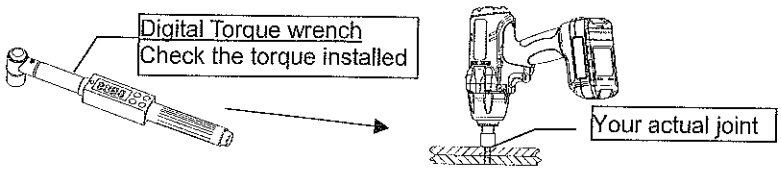
To press the torque setting button until the number blinking, and choose the proper number, than press the trigger or wait for 5 secs to complete the torque setting. Number "00" indicates Non shut-off mode and Number "01" ~ "50" indicate Auto shut-off mode. The larger number, the higher torque.

The process to lock the torque settings

1. To remove the battery pack
2. To press the trigger and one of the F/R switches at the same time.
3. To insert the battery pack.
4. To wait for 6 secs until the beep sounds heard; Meanwhile, release the trigger and F/R switch together. Then the torque setting is locked.
5. To do the same process as above, the torque setting will be unlocked.



How to test torque



LED indicator and beeper on the tool shows the following status

Status of the LED indicator and beeper	Status of the tool	Action to be taken
Light up in red, yellow and green together for one second. A long beep for one second.	The tool is OK to use.	–
Light up in red for one second. A long beep for one second.	The preset torque is not reached	The screwing fastener must be performed again.
Light up in green.	The preset torque is reached and the tightening is OK.	–
Blinks in yellow for five times. Five short beeps.	The battery power becomes low.	Replace the battery with fully charged one.
Light up in yellow for five second. A long beep for five second.	The battery power is used up, the tool stops immediately.	Replace the battery with fully charged one.
Light up in blue and blinks in yellow & green.	The tool is in reverse operation.	–

Troubles Shooting ERROR Mode: Display by LED

Error Mode	Error Cause	Solutions
E2	Motor overheated	To remove battery pack and put aside for cooling
E3	Motor damaged	To send back to repair center for checking
E4	The connector wire is failed.	To send back to repair center for checking
E8	Excess of current & Tool stuck.	To send back to repair center for checking

SPECIFICATIONS

MODEL / ITEM	RRI-BI32T
Voltage	20 VDC
Drive Size	9,5 mm Sq. (3/8")
Screw Size	M6
Torque Range	6~32 N-m (4~24 ft-lb)
Max. Torque	90 N.m(66 ft-lb)
Free Speed	2.400 r.p.m
Weight W/O Battery	1,0 kg (2,2 lb)
Noise Level	71 db(A)
Battery Type	Li-ion 2,0 / 4,0 Ah

MODEL / ITEM	RRI-BI55T
Voltage	20 VDC
Drive Size	9,5 mm Sq. (3/8")
Screw Size	M8
Torque Range	15~55 N-m (11~41 ft-lb)
Max. Torque	120 N.m (90 ft-lb)
Free Speed	2.400 r.p.m
Weight W/O Battery	1,1 kg (2,4 lb)
Noise Level	71 db(A)
Battery Type	Li-ion 2,0 / 4,0 Ah

SPECIFICATIONS

MODEL / ITEM	RRI-BI100T
Voltage	20 VDC
Drive Size	12,7 mm Sq. (1/2")
Screw Size	M8 , M10
Torque Range	25~100 N-m (18~74 ft-lb)
Max. Torque	180 N.m(133 ft-lb)
Free Speed	2.400 r.p.m
Weight W/O Battery	1,1 kg (2,4 lb)
Noise Level	71 db(A)
Battery Type	Li-ion 2,0 / 4,0 Ah

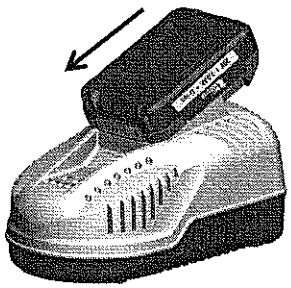
MODEL / ITEM	RRI-BI120T
Voltage	20 VDC
Drive Size	12,7 mm Sq. (1/2")
Screw Size	M10 , M12
Torque Range	30~120 N-m (22~89 ft-lb)
Max. Torque	210 N.m (155 ft-lb)
Free Speed	2.400 r.p.m
Weight W/O Battery	1,3 kg (2,9 lb)
Noise Level	71 db(A)
Battery Type	Li-ion 2,0 / 4,0 Ah

Charging the battery -
for Li-ion battery

[NOTE]

- When charging a cool battery pack (below 0°C(32°F) in a warm place, leave the battery pack at the place and wait for more than one hour to warm up the battery to the level of the ambient temperature. Otherwise battery pack may not be fully charged.
- Cool down the charger when charging more than two battery packs consecutively.
- Do not insert your fingers/ nails into contact hole, when holding charger or any other occasions.

1. Place charger in a relatively cool and well-ventilated area.
2. Plug charger into the AC outlet. CAUTION: Ensure that the power source to be utilized conforms to the power requirement specified on the product nameplate.
3. Turn the battery up-side-down and slide the battery into charger while keeping the alignment marks line up. Slide the forward in the direction of the arrow. Do not force battery as it should slide easily into place with nominal force. Any difficulty doing so would indicate an incorrect alignment.



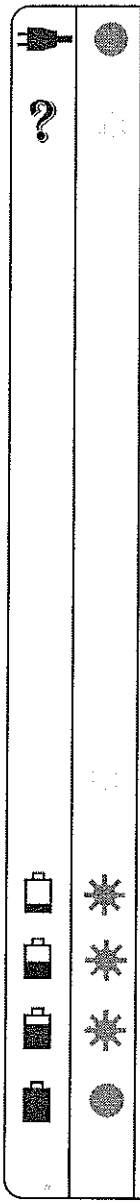
4. If the power lamp (red) does not light immediately or goes out soon after the charger is plugged in, consult an authorized dealer.
5. During charging, the charging lamp (green) will start flashing. When charging is completed, an internal electronic switch will automatically be triggered to prevent overcharging.
   - Charging will not start if the battery pack is warm. For example, immediately after heavy-duty operation. The yellow standby lamp will be flashing until the battery cools down.
6. If the temperature of the battery pack is 0°C or less, charging takes longer to fully charge the battery pack than the standard charging time. Even when the battery is fully charged, it will have approximately 50% of the power of a fully charged battery at normal operation temperature.
7. Once the battery is fully charged, the green lamp will be lit to indicate the gone into a trickle charge mode.

Li-ion Battery Pack

[NOTE]

1. Your battery pack is not fully charged at the time of purchase. Be sure to charge the battery before first use.
2. Remove the battery pack when the tool is idle for a long time.
3. Recharge the battery pack once every 6 month even if the battery is not in use.

LAMP INDICATIONS



Red Lit
Charger is plugged into the AC outlet. Ready to charge.

Yellow Flashing

(1) When the temperature of the battery is too low (<0°C(<32°F)), it is in a trickle charge mode until the temperature of the battery goes up to over 0°C(<32°F). The lamp will change from the Yellow Flashing to Green Flashing automatically and start to charge. (If after 70 minutes, the lamp changes from yellow flashing to yellow lit, consult an authorized dealer.)

(2) When the temperature of the battery is too high (>40°C(104°F)), it is in a trickle charge mode until the temperature of the battery drops to under 40°C(104°F). The lamp will change from the Yellow Flashing to Green Flashing automatically and start to charge. (If after 70 minutes, the lamp changes from yellow flashing to yellow lit, consult an authorized dealer.)

(3) When the voltage of the battery is too low (below 14.4 voltage), it is in a trickle charge mode until the voltage of the battery reaches to the standard value. The lamp will change from the Yellow Flashing to Green Flashing automatically and start to charge. (If after 20 minutes, the lamp changes from yellow flashing to yellow lit, consult an authorized dealer.)

Yellow Lit
The battery and the charger are not connected. If the yellow lit still on after trying re-attach the battery, consul the an authorized dealer.

Green Flashing
Now start charging

Green Flashing
Battery is approximately 50% charged.