

# RBC-121 Battery Charger and RB-1225 Batteries



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\*Original Instructions - English

# RBC-121 Battery Charger and RB-1225 Batteries



### **⚠ WARNING!**

Read this Operator's Manual carefully before using this tool. Failure to understand and follow the contents of this manual may result in electrical shock, fire and/or serious personal injury.

**RIDGID**

## Safety Symbols

In this operator's manual and on the product, safety symbols and signal words are used to communicate important safety information. This section is provided to improve understanding of these signal words and symbols.

 This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

 **DANGER** DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

 **WARNING** WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

 **CAUTION** CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

 **NOTICE** NOTICE indicates information that relates to the protection of property.

 This symbol means read the operator's manual carefully before using the equipment. The operator's manual contains important information on the safe and proper operation of the equipment.

 This symbol means always wear safety glasses with side shields or goggles while using this equipment to reduce the risk of injury.

 This symbol indicates the risk of electrical shock.

 This symbol means do not expose the charger to water or rain to reduce the risk of electrical shock.

 This symbol means do not expose the battery to water or rain to reduce the risk of electrical shock.

 This symbol means do not burn the battery or expose to high temperatures to reduce the risk of fire or explosion.

 This symbol means the battery temperature should not exceed 60° C (140° F) to reduce the risk of fire or explosion.

 This symbol indicates that RIDGID RBC-120 series battery chargers (such as the RIDGID RBC-121) should be used to charge this battery.

 This symbol indicates that RIDGID RB-1200 series batteries (such as the RIDGID RB-1225) can be charged with this battery charger.

 This symbol indicates that the product is For Indoor Use Only.

 This symbol indicates that the product is Class II equipment.

 This symbol means read operator's manual.

## Specific Safety Information

### **WARNING**

**This section contains important safety information that is specific to this tool.**

**Read these precautions carefully before using the battery charger or batteries to reduce the risk of electrical shock, fire, explosion or serious personal injury.**

### **SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE!**

- **Use appropriate Charger and Battery combinations.** See chargers and batteries listed in the Optional Equipment section for use together. Using chargers and batteries

that are not rated for use together can cause the battery to burst, fire or personal injury.

- **Do not use charger or battery if either has been dropped, modified or damaged in any way.** Modified or damaged charger or battery increases the risk of electrical shock.
- **Do not open or disassemble the charger or battery.** There are no user serviceable parts. Have repairs performed only at authorized locations. Opening or disassembling the charger or batteries may cause electrical shock or personal injury.
- **Do not probe charger or battery terminals with conductive objects.** Shorting of terminals may cause sparks, burns or electrical shock.

- **Do not expose charger or battery to damp or wet conditions, such as rain. Make sure hands are dry when handling.** Moisture increases the risk of electrical shock.
- **Follow all charging instructions and do not charge or store the battery pack outside the temperature range specified in the instructions.** Charging or storing improperly or at temperatures outside the specified range may damage the battery and increase the risk of battery leakage, electrical shock or fire.
- **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.**
- **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.
- **Do not burn battery or expose to high temperatures.** High temperatures can cause the battery to explode.
- **Properly dispose of batteries. Do not burn.** When disposing, place tape over battery terminals to prevent shorting. Batteries are Li-Ion and should be recycled. Follow all applicable local regulations for disposal of batteries. *Refer to Disposal section.*

The EC Declaration of Conformity (890-011-320.10) will accompany this manual as a separate booklet when required.

## Battery Charger Safety

- **Use an appropriate power source. Do not use DC power.** May cause damage to charger resulting in electrical shock, fire or burns.
- **Do not allow anything to cover the charger while in use.** Proper ventilation is required for correct operation of charger. Covering vents may result in fire. Allow a minimum of 4" (102 mm) of clearance around the charger for proper ventilation.
- **Unplug the charger when not in use.** Reduces risk of injury to children and untrained persons.
- **Do not carry charger by power cord. Do not pull cord to unplug.** Reduces risk of electrical shock.

## Battery Safety

- **Avoid contact with battery fluids.** Fluids may cause burns or skin irritation. Thoroughly rinse with water in case of accidental contact with fluid. Consult doctor if fluid comes into contact with eyes.
- **Use batteries only with equipment specifically designating their use.** Using equipment and batteries that are not rated for use together can cause fire or other personal injury.

## Description And Specifications

### Description

The RIDGID® RBC-121 12V Lithium-Ion Battery Charger is designed to charge the RIDGID® 12V RB-1200 Series Lithium-Ion Batteries (as listed in the Optional Equipment section). This charger requires no adjustments. The charger includes LED lights to indicate battery charge state and charger condition.



Figure 1 – RBC-121 Lithium-Ion Battery Charger


**RB-1225**
**Figure 2 – RB-1200 Series 12V Lithium-Ion Batteries**

## Specifications

### Batteries

|                                   |                      |
|-----------------------------------|----------------------|
| Type .....                        | Lithium-Ion (Li-Ion) |
| Model .....                       | <b>RB-1225</b>       |
| Rated Voltage .....               | 12.0 V               |
| Nominal Voltage .....             | 10.8 V               |
| Amp-hour .....                    | 2.5 Ah               |
| Watt-Hour .....                   | 27 Wh                |
| Battery Weight .....              | 0.40 lb (0.18 kg)    |
| Maximum Battery Temperature ..... | 140° F (60° C)       |

### RBC-121 Charger

|                                  |                                           |
|----------------------------------|-------------------------------------------|
| Type .....                       | Li-Ion Class 2                            |
| Input .....                      | 100V – 240V AC,<br>50-60Hz, 1.5A Max.     |
| Output .....                     | 12 V DC, 4.0 A<br>Class 2 Equipment       |
| Charge Time .....                | 2.5 Ah battery ≤ 40<br>minutes            |
| Cooling .....                    | Passive convection<br>cooling             |
| Charging Temperature Range ..... | 32° F (0° C) - 113° F<br>(45° C)          |
| Charger Dimension .....          | 6.0" x 5.6" x 3.7"<br>(153 x 142 x 94 mm) |
| Charger Weight .....             | 1.7 lb (0.77 kg)                          |

## Inspection and Set-Up

### ⚠ WARNING



**Daily before use, inspect the charger and batteries and correct any problems.**

**Set up charger according to these procedures to reduce the risk of injury from electric shock, fire and other causes, and to prevent tool and system damage.**

1. Make sure the charger is unplugged. Inspect the power cord, charger and batteries for damage or modifications, or broken, worn, missing, misaligned or binding parts. If any problems are found, do not use charger or batteries until the parts have been properly repaired or replaced.
2. Clean any oil, grease or dirt from the equipment. This helps to prevent the equipment from slipping from your grip, allows proper ventilation as well as allowing any damage to be seen.
3. Check to see that all warning labels and decals on the charger and batteries are intact and readable. *Figure 3* shows the warning label location on the bottom of the charger. *Figure 2* shows the battery labels.


**Figure 3 – Warning Label Location on Charger**

4. Select an appropriate location for the charger before use. Check work area for:
  - Flammable liquids, vapors or dust that may ignite. If present, do not work in area until sources have been identified and corrected. Battery charger is not explosion proof and can cause sparks.
  - Clear, level, stable, dry indoor location for charger. Do not use in wet or damp areas.
  - Proper operating temperature range.
  - Appropriate power source. Confirm that outlet matches the charger plug. Use of extension cords is not recommended.
  - Sufficient ventilation area. The charger needs a clearance of at least 4" (102 mm) on all sides to maintain the proper operating temperature.



Figure 4 – Inserting Power Cord

5. Insert power cord into charger (Figure 4). Confirm securely installed.
6. This charger is provided with a keyhole hanging feature if wall mounting is desired. Screws should be installed at a center distance of 4" (102mm) – See Figure 3.

## Operating Instructions

### ⚠ WARNING



**Follow operating instructions to reduce the risk of injury from electrical shock.**

### Charging Procedure

New batteries reach their full capacity after approximately five charging and discharging cycles. It is not necessary to completely discharge a battery pack before recharging.

1. Set up charger according to Inspection and Set-Up section.
2. With dry hands, insert plug into appropriate power source.



Figure 5 – Charger LED Light and Markings

3. When charger is in standby "ready to charge" mode, the yellow LED light will blink continuously.

4. With dry hands, insert the battery pack onto the charger. Do not force the battery into the charger. The battery pack will begin charging automatically. The battery pack will become slightly warm to the touch during charging. This is normal and does not indicate a problem. The LED light on the battery charger will indicate charging condition (Figure 5 and Figure 6 Chart).

Once the battery is charged, it may remain on the charger until use.

5. When charging is complete, with dry hands, remove the battery from the charger and unplug the charger from outlet.

### Inserting/Removing Battery

1. With dry hands, insert battery into tool receptacle. Battery only fits into tools one way. If the battery will not fully seat into the receptacle, do not force. As the battery is inserted, the tabs will engage the tool to retain the battery in place.
2. To remove battery, depress tabs and pull straight out (Figure 2).
- 3 Always remove the battery from the tool when making adjustments, changing attachments or storing.

### Cleaning

#### ⚠ WARNING

**Unplug charger and remove the battery before cleaning. Do not use any water or chemicals to clean charger or battery to reduce the risk of electrical shock.**

Remove any dirt or grease from the exterior of the charger and battery pack with a cloth or soft, non-metallic brush.

| Charger Icon | Solid Light     | Blinking Light | Meaning                                                                                                                                                                      |
|--------------|-----------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              | —               | Yellow         | Charger is plugged in with no battery installed - ready to charge.                                                                                                           |
|              | Yellow (2 sec.) | —              | Battery condition being checked by charger.                                                                                                                                  |
|              | —               | Green (Slow)   | Battery is being charged. Charge level <85%.                                                                                                                                 |
|              | —               | Green (Fast)   | Battery is being charged. Charge level >85%.                                                                                                                                 |
|              | Green           | —              | Battery fully charged. Once battery is fully charged, the charger switches to retention charging.                                                                            |
|              | —               | Red            | Battery is misaligned in charger. Remove battery and reinsert onto charger.                                                                                                  |
|              |                 |                | Battery is damaged. See <i>Accessories Section</i> to select an appropriate replacement battery. See <i>Disposal Section</i> for recycling information.                      |
|              |                 |                | Charger is damaged. See <i>Service and Repair</i> section for contact information.                                                                                           |
|              | Red             | —              | Battery or charger outside of charging range (32° F (0° C) to 113° F (45° C)). Allow battery and charger to reach temperature range by sitting in a conditioned environment. |
| NO LEDs ON   |                 |                | Charger does not have power. Ensure that charger is properly connected to electrical outlet.                                                                                 |
|              |                 |                | Charger is not working properly. See <i>Service and Repair Section</i> for contact information.                                                                              |

Figure 6 – LED Light Chart

## Optional Equipment

### WARNING

To reduce the risk of injury, only use optional equipment specifically designed and recommended for use with the RIDGID RBC-121 Battery Charger, such as those listed below.

### RBC-121 Chargers and Cords

| Catalog No. |              | Region                    | Plug Type |
|-------------|--------------|---------------------------|-----------|
| 55193       | Charger      | USA, Canada and Mexico    | A         |
| 55198       | Charger      | Europe                    | C         |
| 55203       | Charger      | China                     | A         |
| 55208       | Charger      | Australia & Latin America | I         |
| 55213       | Charger      | Japan                     | A         |
| 55218       | Charger      | United Kingdom            | G         |
| 44798       | Charger Cord | North America             | A         |
| 44808       | Charger Cord | Europe                    | C         |
| 44803       | Charger Cord | China                     | A         |
| 44813       | Charger Cord | Australia & LA            | I         |
| 44818       | Charger Cord | Japan                     | A         |
| 44828       | Charger Cord | United Kingdom            | G         |

### Batteries

| Catalog No. | Model   | Capacity  |
|-------------|---------|-----------|
| 55183       | RB-1225 | 12V 2.5Ah |

All listed batteries will work with any catalog number RBC-121 Battery Charger.

## Storage

Store the charger and batteries in a dry, secured, locked area that is out of reach of children and people unfamiliar with proper charger operation.

Remove batteries from tool or charger before storage. The battery packs and charger should be protected against hard impacts, moisture and humidity, dust and dirt, extreme high and low temperatures, and chemical solutions and vapors.

Long term storage in the fully charged state, the fully discharged state or in

temperatures above 140°F (60°C) can permanently reduce the capacity of a battery pack.

## Battery Transport

RIDGID lithium-ion batteries have successfully passed testing according to UN Document ST/SG/AC.10/11/Rev/3 Part III, subsection 38.3 and are packaged in a manner to prevent short circuits and other damage that could lead to failure. Lithium batteries may be a regulated hazardous material depending on mode of transportation. Consult the code of Federal Regulations.

Damaged or defective batteries must not be transported by air.

## Service And Repair

### WARNING

**Improper service or repair can make machine unsafe to operate.**

There are no user-serviceable parts for the charger or battery packs. Do not attempt to open charger or battery packs, charge individual battery cells, or clean internal components.

implementation into national legislation, electrical equipment that is no longer usable must be collected separately and disposed of in an environmentally correct manner.

## Battery Disposal



For USA and Canada: The RBRC™ (Rechargeable Battery Recycling Corporation) Seal on the battery packs means that RIDGID has already paid the cost of recycling the lithium-ion battery packs once they have reached the end of their useful life.

RBRC™, RIDGID®, and other battery suppliers have developed programs in the USA and Canada to collect and recycle rechargeable batteries. Normal and rechargeable batteries contain materials that should not be directly disposed of in nature, and contain valuable materials that can be recycled. Help to protect the environment and conserve natural resources by returning your used batteries to your local retailer or an authorized RIDGID service center for recycling. Your local recycling center can also provide you with additional drop off locations.

RBRC™ is a registered trademark of the Rechargeable Battery Recycling Corporation.

For EC countries: Defective or used battery packs/batteries must be recycled according to the guideline 2012/19/EU.

## Disposal



Li-Ion

The batteries are Li-ion type and should be recycled.

Parts of the unit contain valuable materials and can be recycled.

There are companies that specialize in recycling that may be found locally. Dispose of the components in compliance with all applicable regulations. Contact your local waste management authority for more information.



**For EC Countries:** Do not dispose of electrical equipment with household waste!

According to the European Guideline 2012/19/EU for Waste Electrical and Electronic Equipment and its

**What is covered**

RIDGID® tools are warranted to be free of defects in workmanship and material.

**How long coverage lasts**

This warranty lasts for the lifetime of the RIDGID® tool. Warranty coverage ends when the product becomes unusable for reasons other than defects in workmanship or material.

**How you can get service**

To obtain the benefit of this warranty, deliver via prepaid transportation the complete product to RIDGE TOOL COMPANY, Elyria, Ohio, or any authorized RIDGID® INDEPENDENT SERVICE CENTER. Pipe wrenches and other hand tools should be returned to the place of purchase.

**What we will do to correct problems**

Warranted products will be repaired or replaced, at RIDGE TOOL'S option, and returned at no charge; or, if after three attempts to repair or replace during the warranty period the product is still defective, you can elect to receive a full refund of your purchase price.

**What is not covered**

Failures due to misuse, abuse or normal wear and tear are not covered by this warranty. RIDGE TOOL shall not be responsible for any incidental or consequential damages.

**How local law relates to the warranty**

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific rights, and you may also have other rights, which vary, from state to state, province to province, or country to country.

**No other express warranty applies**

This FULL LIFETIME WARRANTY is the sole and exclusive warranty for RIDGID® products. No employee, agent, dealer, or other person is authorized to alter this warranty or make any other warranty on behalf of the RIDGE TOOL COMPANY.



Full lifetime warranty (garantie légale étendue à la durée de vie du produit, voir conditions de garantie / legal warranty extended to the product lifecycle, see warranty conditions)

**Ce qui est couvert**

Les outils RIDGID® sont garantis contre tous vices de matériaux et de main d'œuvre.

**Durée de couverture**

Cette garantie est applicable durant la vie entière de l'outil RIDGID®. La couverture cesse dès lors que le produit devient inutilisable pour raisons autres que des vices de matériaux ou de main d'œuvre.

**Pour invoquer la garantie**

Pour toutes réparations au titre de la garantie, il convient d'expédier le produit complet en port payé à la RIDGE TOOL COMPANY, Elyria, Ohio, ou bien le remettre à un réparateur RIDGID® agréé. Les clés à pipe et autres outils à main doivent être ramenés au lieu d'achat.

**Ce que nous ferons pour résoudre le problème**

Les produits sous garantie seront à la discrétion de RIDGE TOOL, soit réparés ou remplacés, puis réexpédiés gratuitement ; ou si, après trois tentatives de réparation ou de remplacement durant la période de validité de la garantie le produit s'avère toujours défectueux, vous aurez l'option de demander le remboursement intégral de son prix d'achat.

**Ce qui n'est pas couvert**

Les défaillances dues au mauvais emploi, à l'abus ou à l'usure normale ne sont pas couvertes par cette garantie. RIDGE TOOL ne sera tenue responsable d'aucuns dommages directs ou indirects.

**L'influence de la législation locale sur la garantie**

Puisque certaines législations locales interdisent l'exclusion des dommages directs ou indirects, il se peut que la limitation ou exclusion ci-dessus ne vous soit pas applicable. Cette garantie vous donne des droits spécifiques qui peuvent être éventuellement complétés par d'autres droits prévus par votre législation locale.

**Il n'existe aucune autre garantie expresse**

Cette GARANTIE PERPETUELLE INTEGRALE est la seule et unique garantie couvrant les produits RIDGID®. Aucun employé, agent, distributeur ou tiers n'est autorisé à modifier cette garantie ou à offrir une garantie supplémentaire au nom de la RIDGE TOOL COMPANY.

**Qué cubre**

Las herramientas RIDGID® están garantizadas contra defectos de la mano de obra y de los materiales empleados en su fabricación.

**Duración de la cobertura**

Esta garantía cubre a la herramienta RIDGID® durante toda su vida útil. La cobertura de la garantía caduca cuando el producto se torna inservible por razones distintas a las de defectos en la mano de obra o en los materiales.

**Cómo obtener servicio**

Para obtener los beneficios de esta garantía, envíe mediante porte pagado, la totalidad del producto a RIDGE TOOL COMPANY, en Elyria, Ohio, o a cualquier Servicentro Independiente RIDGID. Las llaves para tubos y demás herramientas de mano deben devolverse a la tienda donde se adquirieron.

**Lo que hacemos para corregir el problema**

El producto bajo garantía será reparado o reemplazado por otro, a discreción de RIDGE TOOL, y devuelto sin costo; o, si aún resulta defectuoso después de haber sido reparado o sustituido tres veces durante el período de su garantía, Ud. puede optar por recibir un reembolso por el valor total de su compra.

**Lo que no está cubierto**

Esta garantía no cubre fallas debido al mal uso, abuso o desgaste normal. RIDGE TOOL no se hace responsable de daño incidental o consiguiente alguno.

**Relación entre la garantía y las leyes locales**

Algunos estados de los EE.UU. no permiten la exclusión o restricción referente a daños incidentales o consiguientes. Por lo tanto, puede que la limitación o restricción mencionada anteriormente no rija para Ud. Esta garantía le otorga derechos específicos, y puede que, además, Ud tenga otros derechos, los cuales varían de estado a estado, provincia a provincia o país a país.

**No rige ninguna otra garantía expresa**

Esta GARANTIA VITALICIA es la única y exclusiva garantía para los productos RIDGID®. Ningún empleado, agente, distribuidor u otra persona está autorizado para modificar esta garantía u ofrecer cualquier otra garantía en nombre de RIDGE TOOL COMPANY.