Models
HC91K1
HC92K1

20V 1/2" Compact Drill/Driver Kit and
20V 1/2" Compact Hammer Drill/Driver Kit

⚠️WARNING: To prevent serious injury, User must read and understand Owner’s Manual. SAVE THIS MANUAL.

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible. Reference 63381 63382.
IMPORTANT SAFETY INFORMATION

GENERAL POWER TOOL SAFETY WARNINGS

WARNING
Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference. The term "power tool" in the warnings refers to your battery-operated (cordless) power tool.

Work Area Safety
1. Keep work area clean and well lit. Cluttered or dark areas invite accidents.
2. 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.
3. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

Electrical Safety
1. Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with grounded power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
2. Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is grounded.
3. Do not expose power tools to rain or wet conditions. Water entering a power tool can increase the risk of electric shock.
4. 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.
5. When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
6. If operating a power tool in a damp location is unavoidable, use a Ground Fault Circuit Interrupter (GFCI) protected supply. Use of a GFCI reduces the risk of electric shock.

Power Tool Use and Care
1. 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.
2. Do not use the power tool if the Trigger does not turn it on and off. Any power tool that cannot be controlled with the Trigger is dangerous and must be repaired.
3. Disconnect 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.
4. 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.

Personal Safety
1. 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.
2. Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
3. Prevent unintentional starting. Ensure the Trigger is in the off-position before connecting to power source, picking up or carrying the tool. Carrying power tools with your finger on the Trigger or energizing power tools that have the Trigger on invites accidents.
4. 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.
5. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
6. Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
7. Eye protection must be ANSI-approved and breathing protection must be NIOSH-approved for the specific hazards in the work area.
8. Only use safety equipment that has been approved by an appropriate standards agency. Unapproved safety equipment may not provide adequate protection. Eye protection must be ANSI-approved and breathing protection must be NIOSH-approved for the specific hazards in the work area.

For technical questions, please call 1-888-866-5797. Items 63381 63382
5. 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.

6. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

7. 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.

### Battery Tool Use and Care

1. 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.

2. Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.

3. 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.

4. Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.

### 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.

### Drill Safety Warnings

1. Use auxiliary handle(s), if supplied with the tool. Loss of control can cause personal injury.

2. Hold power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring. Cutting accessory contacting a “live” wire may make exposed metal parts of the power tool “live” and could give the operator an electric shock.
**Lithium Battery Safety Warnings**

LITHIUM BATTERIES STORE A LARGE AMOUNT OF ENERGY AND WILL VENT FIRE OR EXPLODE IF MISTREATED:

1. Keep Battery Pack dry.
2. **DO NOT DO ANY OF THE FOLLOWING TO THE BATTERY PACK:**
   - Open,
   - Drop,
   - Short-circuit,
   - Puncture,
   - Incinerate, or
   - **Expose to temperatures greater than 140°F.**
3. Charge Battery Pack only according to instructions.
4. Inspect Battery Pack before every use; do not use or charge if damaged.

**Vibration Safety**

This tool vibrates during use. Repeated or long-term exposure to vibration may cause temporary or permanent physical injury, particularly to the hands, arms and shoulders.

To reduce the risk of vibration-related injury:

1. **Anyone using vibrating tools regularly or for an extended period should first be examined by a doctor and then have regular medical check-ups to ensure medical problems are not being caused or worsened from use.** Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous system disorders, diabetes, or Raynaud's Disease should not use this tool. If you feel any symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.
2. **Do not smoke during use.** Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.
3. **Wear suitable gloves to reduce the vibration effects on the user.**
4. **Use tools with the lowest vibration when there is a choice.**
5. **Include vibration-free periods each day of work.**
6. **Grip tool as lightly as possible (while still keeping safe control of it).** Let the tool do the work.
7. **To reduce vibration, maintain the tool as explained in this manual.** If any abnormal vibration occurs, stop use immediately.

**GROUNDING**

**WARNING**

TO PREVENT ELECTRIC SHOCK AND DEATH FROM INCORRECT GROUNDING:

Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. Do not modify the power cord plug provided with the charger. Do not use the charger if the power cord or plug is damaged. If damaged, have it repaired by a service facility before use. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician.

**Extension Cords**

Extension cords must not be used with this item's Charger.

**Symbology**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C</strong></td>
<td>Canadian Standards Association</td>
</tr>
<tr>
<td><strong>UL</strong></td>
<td>Underwriters Laboratories, Inc.</td>
</tr>
<tr>
<td><strong>V</strong></td>
<td>Volts</td>
</tr>
<tr>
<td><strong>==</strong></td>
<td>Direct Current</td>
</tr>
<tr>
<td><strong>A</strong></td>
<td>Amperes</td>
</tr>
<tr>
<td>( n_0 \ xx\ xx\ xx/min. )</td>
<td>No Load Revolutions per Minute (RPM)</td>
</tr>
<tr>
<td><strong>WARNING</strong></td>
<td>marking concerning Risk of Eye Injury. Wear ANSI-approved safety goggles with side shields.</td>
</tr>
<tr>
<td><strong>WARNING</strong></td>
<td>marking concerning Risk of Fire. Do not cover Charger ventilation ducts. Charge on fireproof surface only.</td>
</tr>
<tr>
<td><strong>WARNING</strong></td>
<td>marking concerning Risk of Explosion. Do not puncture, short, or open battery packs and do not charge damaged battery packs.</td>
</tr>
</tbody>
</table>

**SAVE THESE INSTRUCTIONS**
**Specifications**

<table>
<thead>
<tr>
<th></th>
<th>Model HC91K1</th>
<th>Model HC92K1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Rating</td>
<td>20V / 2.5Ah</td>
<td>20V / 2.5Ah</td>
</tr>
<tr>
<td>Battery Type</td>
<td>Li-ion</td>
<td>Li-ion</td>
</tr>
<tr>
<td>No Load Speed RPM</td>
<td>0-600/0-2,000</td>
<td>0-600/0-2,000</td>
</tr>
<tr>
<td>RPM</td>
<td>–</td>
<td>0-10,200/0-34,000</td>
</tr>
<tr>
<td>Max Torque</td>
<td>576 in-lb</td>
<td>576 in-lb</td>
</tr>
<tr>
<td>Chuck Size</td>
<td>1/2&quot;</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>Wood Capacity</td>
<td>1-1/2&quot;</td>
<td>1-1/2&quot;</td>
</tr>
<tr>
<td>Masonry Capacity</td>
<td>–</td>
<td>1/2&quot;</td>
</tr>
</tbody>
</table>

**Warning Symbols and Definitions**

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

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

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

⚠️ **NOTICE** Addresses practices not related to personal injury.

**Operational Description**

**FUNCTIONAL DESCRIPTION**

1. Jaws
2. Chuck
3. Torque Selector
4. Mode Selector (Model HC92K1 only)
5. Speed Selector
6. Direction Switch
7. Trigger
8. Work Light

**Warning Symbols and Definitions**

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

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

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

⚠️ **NOTICE** Addresses practices not related to personal injury.

---

**OPERATION**

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

**Tool Set Up**

⚠️ **WARNING**

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:

Make sure that the Trigger is locked and Battery Pack is removed before performing any procedure in this section.

**Battery Charging**

Charge battery after unpacking and before using this tool. Follow instructions included with battery charger.

**Bit Installation**

**CAUTION!** Wear heavy-duty work gloves to provide protection when inserting and removing bits. Bits become very hot during use. Do not remove bit until it has cooled.

**NOTICE:** Use sharp bits. Dull, bent, or damaged bits will cause stress on the drill and/or break.

1. Rotate Chuck counterclockwise until Jaws are opened enough for bit to fit.
2. Use a bit designed for workpiece type. Place desired drill, screwdriver, bolt or nut bit into Jaws.
3. Rotate Chuck clockwise until bit is held securely in place, centered between Jaws.

**Attaching Belt Clip**

Attach Belt Clip to Handle using supplied Screw. Clip may be attached to either side.
Mode Selection (Model HC92K1 only)

Rotate Mode Selector so arrow is pointing to desired mode.

**Drilling**

Drilling in wood and metal.

**Driving**

Driving screws, bolts and installing nuts.

**Hammer Drilling**

Drilling in masonry.

Setting Torque when Driving

1. Set Mode to Driving (Model HC92K1 only).
2. Set torque by rotating Torque Selector.

**Note:** The proper torque setting depends on type and size of fastener being driven, as well as type of material being driven into.

3. Adjust the torque setting low enough to allow a safety margin. Use a very low torque setting when first driving small screws into soft materials. Then adjust the setting as the proper force required is determined.

   If a pilot hole has been drilled into the material, a lower torque setting will be required.

Speed Selection

Adjust Speed Selector to proper setting:

- Low Speed: Select 1
- High Speed: Select 2

Workpiece and Work Area Set Up

1. Designate a work area that is clean and well lit. The work area must not allow access by children or pets to prevent distraction and injury.
2. Secure loose workpieces using a vise or clamps (not included) to prevent movement while working.
3. There must not be objects, such as utility lines, nearby that will present a hazard while working.

**General Operation**

1. Lock Trigger, then insert a fully charged Battery Pack, making sure that it clicks into place securely.
2. Set Direction Switch:
   - **Forward:** Push Switch in on right side (arrow pointing forward) for clockwise rotation.
   - **Reverse:** Push Switch in on left side (arrow pointing backward) for counter-clockwise rotation.
   - **Trigger Lock:** Push Switch to the center to lock the Trigger.

   **CAUTION:** Set Control Switch to center Trigger Lock position during set up, when changing bits or when tool is idle.

3. Install bit, select Mode (Model HC92K1 only), Torque (when driving), Speed and Direction.

   **NOTICE:** Do not change direction of rotation while Chuck is rotating. Wait until Chuck has come to a complete stop before changing direction.

4. Press Trigger. The Work Light will turn on when Trigger is pressed and turn off a few seconds after Trigger is released.

5. When inserting or removing a screw or bolt, use slight pressure at first to keep the bit in the head of the screw or bolt and cause the screw or bolt to thread into or unthread from the material.

6. When drilling a hole, let the tool do the work, using only enough pressure to follow the drill as it cuts the hole in the material.

7. When drilling a hard, smooth surface, use a center punch (not included) to mark the desired hole.

8. When finished using the Drill, release Trigger and center Direction Switch to lock Trigger.
To prevent accidents, remove tool’s Battery Pack after use. Clean, then store the tool indoors out of children's reach.

Drilling in Wood

1. Use high speed drill bits for wood drilling and set mode to Drilling (Model HC92K1 only).
2. Start wood drilling at very low speed to keep the bit from slipping. Increase speed as drill bit bites into wood.
3. When drilling through holes, place a block or wood behind the workpiece to prevent ragged edges on the back side of the hole.

Drilling in Metal

1. Use high speed drill bits for metal drilling and set mode to Drilling (Model HC92K1 only).
2. Start metal drilling at very low speed to keep the bit from slipping. Maintain the speed and pressure, allowing for cutting without overheating the bit.
3. When drilling large holes in metal surfaces, use a small drill bit at first. Then finish with a larger drill bit. Be sure to lubricate the bit with oil to improve the drilling action and help increase bit life.

Drilling in Masonry (Model HC92K1 only)

1. Use carbide or specialty bits for masonry drilling and set mode to Hammer Drilling.
2. When drilling in walls, start with regular drilling and, once tile is pierced, continue with Hammer Drilling mode.

NOTE: In deep bore holes, occasionally pull the drill bit out to remove dust and chips.

MAINTENANCE AND SERVICING

Procedures not specifically explained in this manual must be performed only by a qualified technician.

WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Make sure that the Trigger is locked and Battery Pack is removed before performing any procedure in this section.

TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:
Do not use damaged equipment.
If abnormal noise or vibration occurs, have the problem corrected before further use.

Cleaning, Maintenance, and Lubrication

1. BEFORE EACH USE, inspect the general condition of the tool. Check for:
   • leaking, swollen, or cracked battery pack,
   • loose hardware,
   • misalignment or binding of moving parts,
   • cracked or broken parts, and
   • any other condition that may affect its safe operation.
2. AFTER USE, wipe external surfaces of the tool with clean cloth.
3. Disconnect battery pack and store battery pack, charger, and tool in dry, indoor area out of reach of children and away from metal objects (i.e., paperclips, coins) to prevent shorting.

Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Causes</th>
<th>Likely Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tool will not start.</td>
<td>1. Battery Pack not properly connected.</td>
<td>1. Remove Battery Pack, make sure there are no obstructions, clean battery contacts on tool, reinsert the Battery Pack and press firmly until the Battery Pack locks in place.</td>
</tr>
<tr>
<td></td>
<td>2. Battery Pack not properly charged.</td>
<td>2. Make sure Charger is connected and operating properly. Give enough time for Battery Pack to recharge properly.</td>
</tr>
<tr>
<td></td>
<td>4. Internal damage or wear.</td>
<td>4. Have technician service tool.</td>
</tr>
<tr>
<td>Tool operates slowly.</td>
<td>1. Forcing tool to work too fast.</td>
<td>1. Allow tool to work at its own rate.</td>
</tr>
<tr>
<td>Performance decreases over time.</td>
<td>1. Carbon brushes worn or damaged.</td>
<td>1. Have qualified technician replace brushes.</td>
</tr>
<tr>
<td></td>
<td>2. Bit dull or damaged.</td>
<td>2. Keep bits sharp. Replace as needed.</td>
</tr>
<tr>
<td>Excessive noise or rattling.</td>
<td>Internal damage or wear.</td>
<td>Have technician service tool.</td>
</tr>
<tr>
<td>Overheating.</td>
<td>1. Forcing tool to work too fast.</td>
<td>1. Allow tool to work at its own rate.</td>
</tr>
<tr>
<td></td>
<td>2. Bit dull or damaged.</td>
<td>2. Keep bits sharp. Replace as needed.</td>
</tr>
<tr>
<td></td>
<td>3. Blocked motor housing vents.</td>
<td>3. Wear ANSI-approved safety goggles and NIOSH-approved dust mask/respirator while blowing dust out of motor using compressed air.</td>
</tr>
</tbody>
</table>

Follow all safety precautions whenever diagnosing or servicing the tool. Disconnect Battery Pack and Charger power supply before service.
LIMITED 90 DAY WARRANTY

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Record Product’s Serial Number Here: ________________________________________________

Note: If product has no serial number, record month and year of purchase instead.

Replacement parts are not available.

Visit our website at: http://www.harborfreight.com
Email our technical support at: productsupport@harborfreight.com
For technical questions, please call 1-888-866-5797

Copyright© 2016 by Harbor Freight Tools®. All rights reserved. No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools. Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein. Tools required for assembly and service may not be included.