



# INSTRUCTION MANUAL

## BATTERY-OPERATED TOOLS



VBT13-C

INSTRUCTION MANUAL MUST BE STRICTLY FOLLOWED



# SAFETY INSTRUCTIONS

Thank you for choosing VTOOLS products. Please read the instruction manual carefully prior to operating this product. Damages and injuries caused by improper use of this product are **NOT** included in the warranty. Please work safely and keep this manual on hand at all time.

## WARNINGS

- This product is **NOT** insulated and **CANNOT** be used on live electrical work.
- When not in use, please remove the battery pack from the product to prevent any potential injuries.
- Do not use this product on glass, plastic, wood or any other materials that is not listed in the product descriptions. Do not exceed the recommended capacity.
- Ensure safety equipment/gears are properly used/wore during the operation.
- Supervision is required when inexperienced operators use this product.
- Do not used under wet condition or in presence of flammable liquids or gas.
- Keep this product away from children at all time.
- Never modify the product or any part of it.

## SAFETY GUIDELINES

### 1) Work Area

- 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 children and bystanders away while operating a power tool. Distractions can cause you to lose control.

### 2) Electrical Safety

- A battery-operated tool with integral batteries or a separate battery pack must be recharged only with the specified charger for the battery. A charger that may be suitable for one type of battery may create a risk of fire when used with another battery.
- Use battery operated tool only with specifically designated battery pack. Use of any other batteries may create a risk of fire.
- Charger plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed charger. Unmodified plugs and matching outlet will reduce risk of electric shock.
- Avoid body contact with earthed or grounded surfaces 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 or charger to rain or wet condition. Water entering a power tool will increase the risk of electric shock.
- Do not expose power tools or charger to rain or wet condition. Water entering a power tool will increase the risk of electric shock.
- 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.

### 3) 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.

# SAFETY INSTRUCTIONS CONT.

- Use safety equipment. Always wear eye protection Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- Avoid accidental starting. Make sure switch is in the locked or OFF position before inserting battery pack. Carrying tools with your finger on the switch or inserting the battery pack into a tool with the switch ON invites accidents.
- Remove adjusting keys or wrenches before turning the tool on. A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enable better control of the tool in unexpected situations.
- If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of these devices can reduce dust related hazards.
- The tool is heavy and the cylinder piston advances quickly. Please keep your hands and fingers away from the trigger and tool head when adjusting your piston or position of the tool

## 4) Power Tool Use & Care

- Use clamps or other practical way to secure and support the workpiece to a stable platform. Holding the work by hand or against your body is unstable and may lead to loss of control.
- 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 is designed.
- Do not use power tool if switch does not turn it on or off. Any power tool that can't be controlled with the switch is dangerous and must be repaired.
- Disconnect battery pack from power tool and place the switch in the locked or OFF position before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- Store idle power tools out of 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.
- 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 sparks, burns, or a fire.
- Keep cutting tools sharp and clean. Properly maintained tool with sharp cutting edges are less likely to bind and are easier to control.
- Maintain power tools with care. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the power tools operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained tools.
- Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool may create a risk of injury when used on another tool.

## 5) 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 as risk of shock or injury.

# PRODUCT DESCRIPTION

## SPECIFICATION:

- **Height:** 432 mm
- **Weight:** 6.9 kgs (w/o battery)
- **Battery:** Suitable for BOSCH 18.0V battery (4.0Ah or above)
- **Max Pressure:** 700 bar / 10,000 psi
- **Max Output:** 124.6 kN

## CRIMPING CAPACITY:

- **Jaw Opening:** 32 mm
- **Max. Compression:** 400 mm<sup>2</sup> copper lugs
- **Accepts all dies used for Alcoa, Burndy, T&B, Klauke, Cembre, and Blackburn 12 tons compressors**

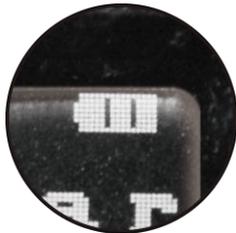


- |                            |                             |
|----------------------------|-----------------------------|
| 1. Upper Die Seat          | 2. Upper Die Release Button |
| 3. Lower Die Seat          | 4. Lower Die Release Button |
| 5. Advance Trigger         | 6. Retract Trigger          |
| 7. Battery Release Button  | 8. Battery                  |
| 9. Battery Power Indicator | 10. Battery Seat            |
| 11. Main Handle            | 12. Display Panel           |
| 13. Lift Rings             | 14. LED Work Lights         |

## DISPLAY PANEL/FUNCTIONS:



Error Code



Battery Power



Operation Counting



Pressure Indicator

### ERROR CODE:

- NO. 36 - No Battery Detected
- NO. 38 - Battery Overload
- NO. 40 - Circuit Board Overload
- NO. 73 - Battery Mislocated
- NO. 138- Overcurrent
- NO. 155- Motor Overload

### ALERTS:



**Low battery**

Charge and replace to a fully charged battery



**Maintain**

Please contact your representatives for further technical supports and assistances

## BATTERY & CHARGER INSTRUCTION:

### BATTERY CHARGING:

1. Plug the AC charger plug into the wall socket. Ensure the electrical outlet meets the charger's specifications.
2. Position the battery cartridge into the battery charger. The LED indicator light will go out when the battery is fully charged.
3. Charging time for the battery cartridge is approx. 30 minutes. When stored in the charger, the battery will stay fully charged.

### BATTERY INSTALLING & REMOVING:

1. **Installing:** Align the battery with the rails in the battery seat and slide the battery into the seat until the battery is firmly locked with the seat (the battery should be unmovable).
2. **Removing:** Press and hold the release button and pull out the battery from the battery seat.

# OPERATING INSTRUCTIONS

1. Slide the charged battery into the battery seat. Please make sure the battery is installed correctly and locked to the battery seat
2. Press the retract trigger to release the pressure and make sure the piston has fully retracted
3. To place the upper die into the upper die seat, pull the upper die release button while sliding the die into the upper die seat, along its groove.
4. To place the lower die into the lower die seat, press the lower die release button while sliding the die into the lower die seat, along its groove
5. Place the terminal between the upper die and lower die at the crimping point
6. Hold the cable with one hand and the main handle with the other hand to secure the tool during the operation
7. Press the advance trigger once to simply awaken the tool from Sleeping Mode to Active Mode, and the LED light will light up. The tool will return to its Sleeping Mode if there is no further action for over 1 minute, and the LED light will go off. Please repeat this step to activate your tool again
8. Start the compression by pressing and holding the advance trigger to advance the piston
9. The compression will be completed when the pressure reaches 700 bars / 10,000 psi. The pressure level is indicated on the display panel
10. Once the compression is completed, release the advance trigger. The safety valve will activate when the compression completes. However, if the terminal is not fully compressed, please double-check the crimping specs to confirm them cable and terminal are suitable for the tool
11. Press the retract trigger to release the pressure and retract the piston. Please make sure the piston has fully retracted
12. Repeat steps 5~11 if more crimps need to be performed
13. When the battery power is running low, please switch to a fully charged battery. For battery switching, please refer to the battery installing & removing section and follow the instructions. After switching the battery, repeat steps 3~11
14. After the work is completed, please remove the dies and battery
15. Clean the tool properly by wiping away dust and grime, greasing with machine oil, and making sure each tool is completely dry before storing them in their plastic cases

Notes: If an error code appears on the display panel, please review the Display Panel/Functions section.

# MAINTENANCE

1. Hydraulic fluid must be replaced every 24 months.
2. Keep the tool free of dirt and metal chips. Use lubricant to clean the tool when necessary.
3. Keep the handle dry and free of grease at all time.
4. Do NOT let the tool drop to the ground or into the storage case to avoid damage to the internal and external parts.
5. Do Not keep this product away from high temperatures, high humidity, or direct sunlight.
6. -10°C ~ 40 °C is the suggested work temperature range for this tool.
7. Only have the product serviced by a qualified distributors/agents from VTOOLS.

# **TROUBLESHOOTING**

## **THE FITTING CANNOT BE CRIMPED:**

- One or more tool parts require repair. Replace the parts immediately to prevent serious personal injury or property damage
- Applied fitting is over-specification
- There is an internal leakage

## **THE TOOL DOESN'T WORK:**

- The power of battery is low. Please charge the battery
- The battery contacts are dirty. Clean the battery contacts of any dirt or debris
- Overcurrent: please check the condition of the battery
- Motor/circuit board overload: cool down the tool for 5 minutes

## **PISTON IS STUCK OR UNABLE TO RETRACT:**

- The cylinder piston might be deformed after crimping an off-center fitting, or from the tool being used in a manner for which it was not intended
- Piston guide pieces are blocked with impediments. Use an air gun to remove impediments or a lubricant to clean the tool

## **PISTON ACTION IS SLOW OR SPONGY**

- There is air in the hydraulic system
- Insufficient hydraulic fluid
- The battery power is running low. Charge the battery
- Life of the battery has expired. Replace with a new battery

## **CHARGING LAMP DOES NOT LIGHT UP:**

- Dust or debris is obstructing the battery terminals. Clean the battery connection points
- Battery cartridge is overheated or too cold (-0°C). Allow the cartridge to cool or warm up before charging

***Notes: Please contact your representatives for further technical supports and assistances***



## **ATTENTION!**

DO NOT DISPOSE OF ELECTRICAL APPLIANCES AS UNSORTED MUNICIPAL WASTE. CONTACT YOUR LOCAL GOVERNMENT FOR INFORMATION REGARDING THE COLLECTION SYSTEMS AVAILABLE.

## Manufacture & Quality Certificate

We hereby certify that the following VTOOLS product was manufactured in accordance with our specifications and has passed our quality inspection

**Item:** 8802078

**Model No:** VBT13-C

**Serial No.** \_\_\_\_\_

**Date of Inspection:** \_\_\_\_\_

**Q.C. Supervisor:**

For VTOOLS Authorized

Distributor Use Only:

\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_

Date of Purchase (dd/mm/yy)

For Industry or Individual

Buyer Use Only:

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Date of Purchase (dd/mm/yy)