



INSTRUCTION MANUAL

BATTERY-OPERATED TOOLS



VTB13-CT

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:

- **Length:** 480 mm (w/o battery)
- **Weight:** 7.4 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 mm² copper lugs
- **Accepts all dies used for Alcoa, Burndy, T&B, Klauke, Cembre, and Blackburn 12 tons compressors**



- | | |
|-----------------------------|----------------------|
| 1. Crimping Head (C-head) | 2. Upper Die Seat |
| 3. Upper Die Release Button | 4. Lower Die Seat |
| 5. Lower Die Release Button | 6. LED Work Lights |
| 7. Emergency Retract Button | 8. Battery Seat |
| 9. Battery Power Indicator | 10. Battery |
| 11. Battery Release Button | 12. USB Port & Cover |
| 13. Main Handle | 14. Operation Button |
| 15. Lift Rings | 16. Display Panel |

DISPLAY PANEL/FUNCTIONS:

(Display page can be switched by clicking the menu & set buttons)



Pressure Indicator



Operation Counting



USB Mode



Time Display

TIME SETTING:

Long hold the set button on the time display/setting page to start setting the time. Click between the menu and set buttons to change the time. Once the time is completed, long hold the set button again to move to the next step or complete the setting

ERROR CODE:

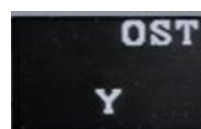
- NO. 140 Instant Over Current
- NO. 33 Low Voltage
- NO. 137 Continue Over Current
- NO. 145 Hardware Over Current
- NO. 176 Controller & Motor Over Temperature
- NO. 177 Battery Over Temperature
- NO. 88 Start Up
- NO. 30 High Pressure On
- NO. 54 Motor Abnormal Pressure Relief
- NO. 55 Pressure Sensing Abnormality
- NO. 45 Low Safety Valve Pressure



AUTO-RETRACTION SETTING:

(Long hold the set button to change the setting)

- Y – Activate Auto-retraction
- N – Deactivate Auto-retraction



WIRELESS CONTROL SETTING:

(Long hold the set button to change the setting)

- USE – Activate Wireless Control

Long hold the start button on the wireless control to start the pairing.
The light will flash green when the control is connected to the tool

- NOT USE – Deactivate Wireless Control



ALERTS:



Low battery

Charge and replace to a fully charged battery



Maintain

Please contact your representatives for further technical supports and assistances

DATA READING AND DISPLAYING:

**** Suitable for Windows System Computers & Laptops Only****

THROUGH MACHINE:

1. Contact your representative to receive the software file and install the file on your computers and laptops
2. Open the USB port cover on the machine
3. Connect the tool to your device with a type-c cable
4. Make sure the type-c cable has a reading function as some cables only have charging function
5. Open the software file on the computer to start the connecting and reading
6. Once the tool and the computer are connected, the data from this tool will be displayed on the software
7. When finished reading, please unplug the type-c cable from the tool and the device
8. Close back the USB port cover on the tool
9. Properly store the tool back to the carrying case

THROUGH WIRELESS CONTROL:

1. Contact your representative to receive the software file and install the file on your computers and laptops
2. Turn on the remote control and the machine
3. Make sure the machine is turned on the entire time
4. Pair and connect the wireless control with the tool
5. Connect the remote control to your device with a type-c cable
6. Make sure the type-c cable has a reading function as some cables only have charging function
7. Again, make sure your tool is turned on when start importing the date
8. Open the software file on the computer to start the connecting and reading
9. Once the remote control and the computer are connected, the data from the tool will be displayed on the software
10. When finished reading, please unplug the type-c cable from the remote control and the device
11. Properly store the tool and control back to the carrying case

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 operation button backward 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 operation button forward 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 operation button frontward 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 operation button. The pressure will automatically release and the piston will automatically retract if the auto-retraction function was set up. If the auto-retraction was not set up, please press and hold the operation button backward to fully release the pressure and retract the piston

Notes: To save the operation time, the distance of piston retraction can also be adjusted when the auto-retraction is turned on. After the pressure reaches 700 bars / 10,000 psi, released the button and immediately press again and hold the operation button frontward. The piston will start retracting. Once the piston retracted to the needed distance, release the button and the piston will stop moving. The setup of the retracting distance is now completed. Starting from the next crimping cycle, the piston will only retract to the assigned distance

11. Repeat steps 5~10 if more crimps need to be performed
12. 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 5~10
13. After the work is completed, please fully retract the piston
14. 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: 8802079

Model No: VBT13-CT

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:

 / /

Date of Purchase (dd/mm/yy)