



Empowering you to work smarter

NTB7L2

BreakFree® Power Tube Bender User Manual



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CORDLESS SERIES

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1. Safety Guide

Warning

To avoid injury, please read this instruction manual carefully before use.

1. Keep the work area clean to avoid slips, falls, or other injuries while using the tool.
2. Do not operate this or any other tool while under the influence of medications, drugs, or alcohol.
3. Keep this and all other power tools away from minors and any other untrained individuals.
4. Do not attempt to operate this tool with bending tool components from other manufacturers. Use the OEM parts included in the kit to avoid injury, tool destruction and a void warranty.
5. Keep all body parts, appendages, or objects away from moving parts during operation.
6. Product warranty is void if any changes, modifications, or customizations of the tool have taken place.
7. Batteries must remain intact and sealed; in addition to a void warranty, opening lithium-ion batteries may result in severe injury. Dispose of and handle batteries in accordance with local environmental regulations.
8. For troubleshooting faults or technical issues, please refer to table 2 and table 3.

2. NTB7L2 Parts Diagram

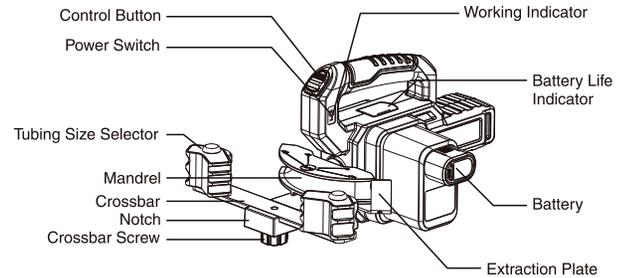


Fig. 1

3. Technical parameters

Model	NTB7L2
Tubing OD	1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8"
Dimension	12.7"x10.5"x7" (325x268x180mm)
Weight	7.3 lbs (3.3 kg)

Battery pack

Battery	7.2V 2Ah 14.4Wh
Quick Charge	45 minutes
Ambient Temperature	41°F-104°F (5°C-40°C)
Fast charging protocol	PD3.0/FCP/AFC/QC, compatible with C to C/A to C interfaces

Table 1

4. Tube bender operating instructions

1. Preparation

Always use the tool for **FRESH SOFT COPPER** tubing. Hard copper tubing will result in failure. Deformed (squished, kinked, oval, etc.), oxidized copper tubing or non-copper tubing will result in failure.

2. Crossbar installation

Tighten crossbar screw to lock the crossbar on the tool.

3. Battery installation

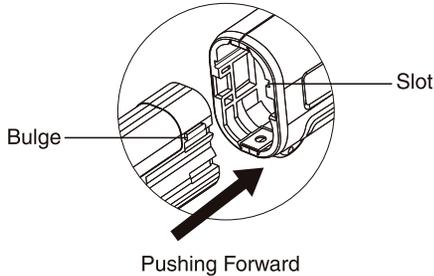


Fig. 2

4. Use of tube bender

4.1 Set up tubing size selector, then lock;

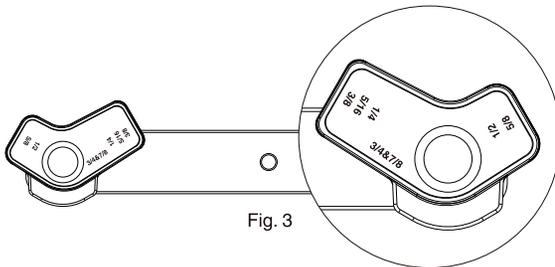


Fig. 3

4.2 Align size notch to copper tube

Position the notch on the rotor in the size of the bend required to face the copper tube. **WRONG SIZE NOTCH WILL RESULT IN FAILED BEND, OR FURTHER DAMAGE THE TOOL ITSELF.**

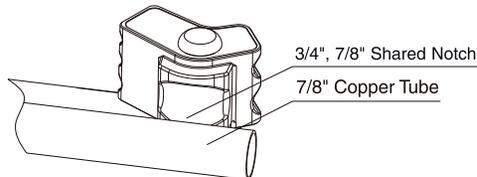


Fig. 4

4.3 Mandrel installation

Choose the correct size mandrel. Allow angle marks facing up. Attach mandrel to the top of the Pushing Head by simply pressing down until you feel the spring latch engages. To disassemble, push mandrel out using two hands, each on one side of the mandrel.

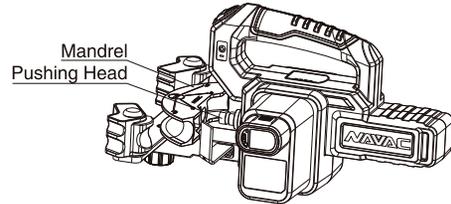


Fig. 5

4.4 Bend tube

Press power switch to turn the tool on. When the indicator light is green, hold the copper tube with one hand, put it into tube notch so it's well fit. Use the other hand to push the control button forward.



Avoid physical contact with moving parts of the tool when bending.

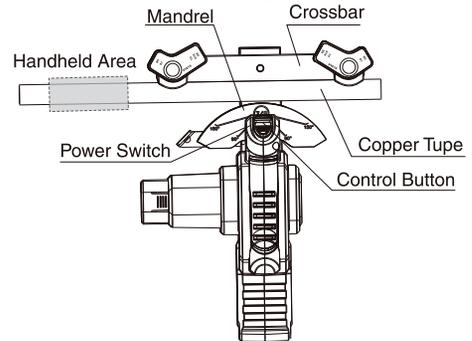


Fig. 6

The copper tube will be bent to 90° when bender stops automatically. To bend other angles, refer to angle marks on mandrel.

5. Release tube

Pull control button backward, mandrel will back up. Tube will be pushed out automatically.

6. Standby

6.1 After bending, tap Power Switch, turn tool to standby mode.

6.2 Tool will automatically enter power saving mode, indicator light will go out if no operation in 5 minutes.

5. Reverse bender (*Reverse bender is sold separately)

1. Lock reverse bend retaining block using **Screw A** onto tube bender, press appropriately sized Mandrel with angle mark side facing down into the reverse bend retaining block.
2. Lock crossbar onto reverse bend retaining block, then insert it into the pushing head and lock it with **Screw B**.
3. Slide tubing size selector into the right position (refer to 4.2). Select desired notch size on tube size selector facing toward mandrel, put copper tube into size notch on both side, then start to reverse bend.

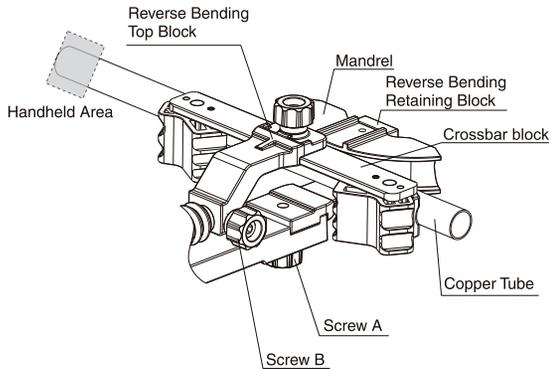


Fig. 7

6. Charging

1. Press down battery release tabs to remove battery.

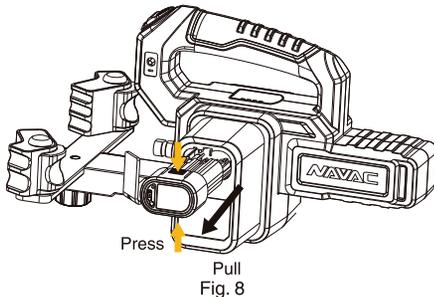


Fig. 8

2. Please use a Type-C data cable for charging.*

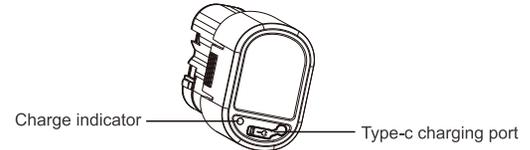


Fig. 9

- Normal charging: The indicator flashes slowly
- Fully charged: The indicator stays on
- Charging error: The indicator flashes quickly

Battery pack information:

- Fast charging protocol: Supports PD3.0/FCP/AFC/QC, compatible with C to C/A to C interfaces, charging time remains the same as original charger at 45 minutes.
- Versatility: Can be used as a small portable power bank to charge mobile phones etc.
- Compatibility: Compatible with all NAVAC 7.2V lithium power tools, original charger can also charge the battery pack.

*This product's battery pack is compatible with both universal Type-C fast charging and the NAVAC brand-specific dock charging. It is recommended to prioritize the former. If dock charging is used, the battery pack may enter an over-voltage protection state after being fully charged. This is a normal phenomenon and does not affect the battery pack's discharge function, charging safety, or service life.

7. Troubleshooting

1. Electrical Failures

Problem	Possible Cause	Solution
Work indicator one flash one off	Short circuit	Contact the manufacturer or dealer to repair
Work indicator two flash one off	ID detection failure	Check the battery or ID pin position
Work indicator three flash one off	Battery temperature protection	Wait for the battery to cool down or heat up
Work indicator four flash one off	Overcurrent protection	Reboot
Work indicator five flash one off	Motor temperature protection	Waiting for the motor to cool down
Work indicator six flash one off	Limit switch protection	Contact the manufacturer or dealer to repair

Table 2

2. Other Failures

Problem	Possible Cause	Solution
Bender does not run or stops while operating when power switch and operation button is pressed	Low battery power	Charge
	Line or motor failure	Contact the manufacturer or dealer to repair
Copper tube deformation, fracture, poor angle	The selected tubing size selector notch does not match the copper tube	Select a suitable tubing size selector notch
	The selected mandrel does not match the copper tube	Select a suitable mandrel
	The selected gear on the crossbar does not match the copper tube	Follow the instructions on the crossbar to select the appropriate gear
	The bent copper tube is hard copper tube	Use the tool for FRESH SOFT COPPER tubing.

Table 3