

[Manuals.plus](#) /

› [NAVAC](#) /

› NAVAC NTE11L Power Tubing Expander Instruction Manual

## NAVAC NTE11L

# NAVAC NTE11L Power Tubing Expander Instruction Manual

Model: NTE11L

### INTRODUCTION

The NAVAC NTE11L Power Tubing Expander is a battery-operated tool designed for expanding soft or annealed copper tubing. It features a one-button operation for quick expansion and automatic pressure relief, making it efficient for HVAC professionals. The tool is lightweight and includes quick-connect expander heads for various tubing sizes.

This manual provides essential information for the safe and effective use, maintenance, and troubleshooting of your NTE11L Power Tubing Expander.

**BREAKFREE**  
CORDLESS SERIES



# WORK FASTER AND SMARTER WITH NTE11L POWER TUBE EXPANDER

Figure 1: NAVAC NTE11L Power Tubing Expander highlighting key features.

## SAFETY INFORMATION

Always observe basic safety precautions when using electrical tools to reduce the risk of fire, electric shock, and personal injury. Read all instructions carefully before operation.

- Wear appropriate personal protective equipment, including safety glasses.
- Ensure the work area is clean and well-lit.
- Keep children and bystanders away while operating the tool.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- Use the correct tool for your application. Do not force the tool.
- Disconnect the battery pack from the tool before making any adjustments, changing accessories, or storing the tool.
- Only use original NAVAC batteries and chargers.

## PACKAGE CONTENTS

Verify that all items are present upon unpacking:

- NTE11L Power Tubing Expander Body
- Quick Connect Expander Heads (7 sizes: 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8")
- NBF2 Lithium Battery (1 pc)
- NCF2 Battery Charger
- Carry Case



Figure 2: The NTE11L kit showing the expander tool, battery, charger, and various expander heads.

- **EASY ONE-HAND OPERATION**

Ultra-lightweight at 3.4 lbs for easy one-hand use and 12-second tubing expansion with a single button press.

- **EVERYTHING YOU NEED TO EXPAND COPPER TUBINGS**

Comes with Quick-Connect Expander Heads and Adapter, Rechargeable Battery and Charger.

- **TAKE IT ANYWHERE YOUR WORK DEMANDS**

All together in a sturdy blow-molded carry case.



**NAVAC**  
Empowering you to work smarter

Figure 3: The included carry case for organized storage and transport.

## SETUP

1. **Charge the Battery:** Insert the NBF2 Lithium Battery into the NCF2 Battery Charger. Connect the charger to a power outlet. The battery indicator lights on the charger will show the charging status. A full charge typically takes 30 minutes.
2. **Install Battery:** Once charged, slide the battery pack into the base of the NTE11L Power Tubing Expander until it clicks securely into place.
3. **Select Expander Head:** Choose the appropriate quick-connect expander head for the desired tubing size (e.g., 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8").
4. **Attach Expander Head:** Align the expander head with the tool's chuck and push it in. Turn and lock the head into position. Ensure it is securely fastened before use.

## OPERATING INSTRUCTIONS

The NTE11L is designed for use with soft or annealed copper tubing only. Tubing should be reamed and deburred before expanding.

1. **Prepare Tubing:** Cut the copper tubing to the desired length and ensure the ends are clean, reamed, and free of burrs.
2. **Insert Tubing:** Gently insert the end of the copper tubing into the selected expander head.
3. **Start Expansion:** Press and hold the one-button trigger on the tool. The expander head will begin to expand the tubing.
4. **Automatic Pressure Relief:** The tool will automatically stop and relieve pressure once the expansion is complete. This typically takes about 12 seconds.
5. **Remove Tubing:** Release the trigger and carefully remove the expanded tubing from the head.
6. **Stopping Operation:** Operation may be stopped at any point during the cycle by releasing the action button. To resume, press the button again.

Your browser does not support the video tag.

Video 1: Official NAVAC video demonstrating the operation and features of the NTE11L Power Tubing Expander and other NAVAC tools.

## MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your tool.

- **Cleaning:** After each use, wipe down the tool and expander heads with a clean, dry cloth to remove any dust or debris.
- **Lubrication:** Periodically apply a small amount of appropriate lubricant to the moving parts of the expander heads to ensure smooth operation.
- **Battery Care:** Store batteries in a cool, dry place. Do not expose batteries to extreme temperatures or moisture. Charge the battery fully before long-term storage.
- **Storage:** Store the tool and its accessories in the provided carry case to protect them from damage and environmental elements.

## TROUBLESHOOTING

If you encounter issues with your NTE11L Power Tubing Expander, refer to the following common problems and solutions:

| Problem                        | Possible Cause                                                                                     | Solution                                                                                                     |
|--------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Tool does not start            | Battery not charged or improperly installed                                                        | Ensure battery is fully charged and correctly inserted.                                                      |
| Tubing not expanding correctly | Incorrect expander head size; tubing not reamed/deburred; tubing material not soft/annealed copper | Verify expander head matches tubing size. Ream and deburr tubing. Confirm tubing is soft or annealed copper. |
| Tool stops during operation    | Overload protection activated; low battery                                                         | Allow tool to cool down. Recharge or replace battery.                                                        |

If the problem persists, contact NAVAC customer support.

## SPECIFICATIONS

| Feature | Detail |
|---------|--------|
| Model   | NTE11L |

| Feature                    | Detail                                   |
|----------------------------|------------------------------------------|
|                            |                                          |
| Tubing Type                | Soft or Annealed Copper                  |
| Tubing O.D.                | 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8" |
| Power                      | 7.4V 2Ah 14.8Wh                          |
| Battery Type               | Li-ion, 1pc                              |
| Tool Weight (with battery) | 3.4 lbs (1.54 kg)                        |
| Voltage                    | 7.4 Volts                                |
| Material                   | Plastic                                  |
| Display Type               | LED                                      |
| UPC                        | 811245031946                             |

# SPECIFICATIONS THAT MATTER

| Model                              | NTE11L                                   |                                |                                           |
|------------------------------------|------------------------------------------|--------------------------------|-------------------------------------------|
| Tubing Type                        | Soft or Annealed Copper                  |                                |                                           |
| Tubing O.D.                        | 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8" |                                |                                           |
| Power                              | 7.4V 2Ah 14.8Wh                          |                                |                                           |
| Battery type                       | Li-ion, 1pc                              |                                |                                           |
| Tool Weight                        | 3.4 lbs (with battery)                   |                                |                                           |
| Warranty                           | 2 years                                  |                                |                                           |
| Kits Include:                      | NTE11L<br>Full Kit                       | N11LNB<br>for NEF6LM<br>Owners | N11LNH<br>For NTE11H,<br>NTEHHK<br>Owners |
| Expander Body                      | YES                                      | YES                            | YES                                       |
| Quick Connect Expander Heads, 7pcs | YES                                      | YES                            | NO                                        |
| NBF2 Lithium Battery, 1 pc         | YES                                      | NO                             | YES                                       |
| NCF2 Battery Charger               | YES                                      | NO                             | YES                                       |
| Carry Case                         | YES                                      | YES                            | YES                                       |
| NAQA1 Quick Connect Adapter        | NO                                       | NO                             | YES                                       |



Figure 4: Detailed specifications for the NTE11L and its various kit configurations.

## WARRANTY

NAVAC provides a 2-year warranty for the NTE11L Power Tubing Expander. This warranty covers defects in materials and workmanship under normal use. For specific terms and conditions, please refer to the warranty card included with your product or visit the official NAVAC website.

## SUPPORT

For technical assistance, replacement parts, or further inquiries, please contact NAVAC customer support through their official website or the contact information provided in your product packaging. You can also visit the [NAVAC Store on Amazon](#) for more product information.

## ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

### Name

Anonymous

### Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

### Question

Example: How do I reset this device or fix this error?

### Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question