

## 1. Overview

The NEIKO 10881A is a cordless angle grinder powered by a 20-volt lithium-ion battery. It is designed for cutting, grinding, and finishing metal and other materials. The tool features a brushless motor, variable speed control, and a repositionable handle.



Key identifiers of the product include the model number **10881A** and the brand name **NEIKO** visible on the tool.

## 2. Features and Components

### 2.1 Main Tool

- **Brushless Motor:** Provides no-load variable speeds of 6,500, 7,500, and 8,000 RPM.
- **Variable Speed Trigger:** Allows control over the tool's rotational speed.
- **Spindle Lock:** A button or mechanism to lock the spindle for safe accessory changes.
- **Electronic Brake:** Stops the wheel quickly after the trigger is released.
- **Repositionable Handle:** The side handle can be attached to either side of the tool for left- or right-handed use.
- **Battery Port:** Located at the base of the handle for inserting the 20V battery pack.



## 2.2 Battery and Charging System

- **20V 4.0Ah Lithium-Ion Battery:** Rechargeable battery pack. An energy indicator light on the battery shows charge level (100%, 65%, 25%).
- **2.4A Fast Charger:** ETL-approved charger for the battery. Includes overcharge protection.

## 2.3 Included Accessories

- NEIKO 10881A Cordless Angle Grinder (main tool)
- 20V 4.0Ah Lithium-Ion Battery
- 2.4A Fast Charger
- Sturdy Storage Case

*Note: Grinding wheels or cutting discs are not included and must be purchased separately. Use only 4-1/2" wheels with a 5/8"-11 spindle thread.*

## 3. Use Guide

### 3.1 Before First Use

1. Inspect the tool, battery, and charger for any signs of damage.
2. Fully charge the battery using the provided charger. The charger's indicator will show when charging is complete.
3. Select the appropriate grinding or cutting disc for your material. Ensure the disc's maximum RPM rating exceeds the tool's 8,000 RPM.

### 3.2 Installing/Changing the Accessory Disc

1. Ensure the tool is switched off and the battery is removed.
2. Press and hold the **Spindle Lock** button to prevent the spindle from rotating.
3. Use the provided wrench to loosen the retaining flange nut by turning it in the direction indicated on the tool guard.
4. Remove the old disc, place the new disc on the spindle, and secure it with the flange nut.
5. Tighten the nut firmly while holding the spindle lock. Release the spindle lock.
6. Reinstall the battery.

### 3.3 Attaching/Repositioning the Side Handle

The side handle can be screwed into threaded ports on either side of the gear housing. Choose the position that provides the best control and comfort for your application and handedness.

### 3.4 Basic Operation

1. Insert the fully charged battery into the battery port until it clicks into place.
2. Put on appropriate personal protective equipment (safety glasses, gloves, hearing protection, dust mask).
3. Firmly grip the main handle and the side handle.
4. Position the tool so the guard is between you and the spinning disc.
5. Press the variable speed trigger to start the tool. The speed increases the further the trigger is depressed.
6. Apply the disc to the workpiece at a slight angle. Do not force the tool; let the disc do the work.
7. Release the trigger to stop the tool. The electronic brake will engage to stop the disc quickly.

### 3.5 Speed Selection

The tool has three preset no-load speed settings: 6,500, 7,500, and 8,000 RPM. Use lower speeds for grinding and higher speeds for cutting. The actual speed under load is controlled by the variable speed trigger.

### 3.6 Battery Charge Indicator

The battery has an indicator that shows the remaining charge:

- **All Lights On:** 100% charge.
- **Two Lights On:** Approximately 65% charge.
- **One Light On:** 25% charge or less. Recharge the battery.

## 4. Safety Instructions

**WARNING:** Failure to follow safety instructions can result in serious injury or death.

- Always wear ANSI-approved safety glasses, a face shield, hearing protection, gloves, and a respirator when operating this tool.
- Ensure the workpiece is securely clamped before operation.
- Keep hands and clothing away from the rotating accessory.
- Never remove or adjust the tool guard.
- Allow the tool to come to a complete stop before setting it down.
- Use only accessories rated for a minimum of 8,000 RPM and with the correct 5/8"-11 spindle thread.
- Inspect discs for cracks or damage before each use. Do not use damaged discs.
- Do not use the tool in the presence of flammable liquids or gases.
- Remove the battery before making any adjustments, changing accessories, or when the tool is not in use.
- Use the correct battery and charger provided. Do not use with other battery systems.

## 5. Maintenance and Storage

- Keep the tool's air vents clean and free of debris.
- Wipe the exterior with a clean, dry cloth. Do not use solvents or immerse the tool in liquid.
- Store the tool, battery, and charger in the provided case in a cool, dry place.
- For long-term storage, remove the battery and charge it to approximately 50% every 6 months.
- There are no user-serviceable parts inside the tool. Do not disassemble.

## 6. Specifications

- **Model Number:** 10881A
- **Power Source:** 20V Lithium-Ion Battery
- **Battery Capacity:** 4.0 Amp Hours
- **No-Load Speed:** 6,500 / 7,500 / 8,000 RPM (Variable)
- **Disc Diameter:** 4-1/2 Inches
- **Spindle Thread:** 5/8"-11
- **Motor Type:** Brushless

- **Special Features:** Electronic Brake, Spindle Lock, Variable Speed, Side Handle
- **Included Components:** Grinder, Battery, Charger, Storage Case

## 7. Troubleshooting

- **Tool does not start:** Check that the battery is fully charged and properly inserted. Ensure the battery contacts are clean.
- **Tool stops under load:** The battery may be low. Recharge. Do not force the tool; use appropriate pressure.
- **Accessory disc wobbles or vibrates:** Ensure the disc is properly installed, the flange nut is tight, and the disc is not damaged or warped.
- **Battery does not charge:** Ensure the charger is plugged into a working outlet. Check that the battery is correctly seated in the charger. Clean the charging contacts on the battery and charger.
- **Overheating:** Allow the tool and battery to cool down. Do not use continuously for extended periods.

## 8. Battery and Charger Information

- Use only the NEIKO 20V battery and 2.4A charger provided.
- Replacement batteries: Search for NEIKO 40064A (2.0Ah) or NEIKO 40065A (4.0Ah).
- The charger has overcharge protection. Do not leave a fully charged battery on the charger indefinitely.
- Charge the battery at room temperature. Do not charge in extreme heat or cold.
- Dispose of the battery according to local regulations. Do not incinerate or short-circuit.

## 9. Compliance

This product complies with applicable regulations. The charger is ETL-approved.

**WARNING:** This product can expose you to chemicals which are known to the State of California to cause cancer and reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.

