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Segway-Ninebot NEB1002-H1

Segway-Ninebot External Battery Pack NEB1002-H1 Instruction Manual

Model: NEB1002-H1 | Brand: Segway-Ninebot

1. INTRODUCTION AND OVERVIEW

This manual provides essential information for the safe and effective use of your Segway-Ninebot External Battery Pack, model NEB1002-H1. This external battery pack is designed to enhance the performance of compatible Segway-Ninebot ES1, ES2, and ES4 Electric Kick Scooters by extending their range and increasing their maximum speed.

The battery pack features a robust design with advanced safety mechanisms to ensure reliable operation. Please read this manual thoroughly before installation and use.



Figure 1: Segway-Ninebot External Battery Pack installed on a scooter.

2. SAFETY INFORMATION

Your safety is paramount. The Segway-Ninebot External Battery Pack is UL 2272 Certified, meeting stringent fire and electrical safety standards. It incorporates a Smart Battery Management System (BMS) with multiple protection features:

- Over-heating protection
- Short circuit protection
- Over-current protection
- Over-charge protection

Important Safety Precautions:

- Always charge and use the battery pack according to the instructions in this manual and your scooter's user manual.
- Do not attempt to disassemble, modify, or repair the battery pack. Unauthorized modifications can lead to serious injury or product damage.
- Avoid exposing the battery pack to extreme temperatures, direct sunlight, or moisture.
- Keep the battery pack away from children and pets.

- Dispose of the battery pack responsibly according to local regulations. It does not contain harmful metals like cadmium, lead, or mercury.

3. INSTALLATION GUIDE

The external battery pack is designed for straightforward installation. Follow these steps to attach it to your compatible Segway-Ninebot Electric Kick Scooter:

1. **Remove the Cover:** Carefully remove the existing cover from the scooter's stem where the external battery pack will be mounted.
2. **Install the Rail:** Securely attach the mounting rail to the scooter's stem using the provided hardware. Ensure it is firmly in place.
3. **Attach the Extended Battery:** Slide the external battery pack onto the installed rail until it clicks into place. Connect any necessary cables as per the scooter's instructions.
4. **Ready to Ride:** Once the battery pack is securely attached and connected, your scooter is ready for use.

Upgrade Battery

Suitable for **ES2/ES4/E22**



Figure 2: Step-by-step installation of the external battery pack.

4. CHARGING INSTRUCTIONS

To charge your external battery pack, follow these intuitive steps:

1. **Open the Charge Port Cover:** Locate the charge port on the external battery pack and open its protective cover.
2. **Insert the Charge Plug:** Connect the charger cable to the charge port. Ensure a secure connection.
3. **Close the Charge Port Cover:** Once charging is complete, disconnect the charger and securely close the charge port cover to protect it from dust and moisture.

The typical charging time for the external battery pack is approximately 3 hours. A red indicator light usually signifies charging in progress, while a green light indicates a full charge.

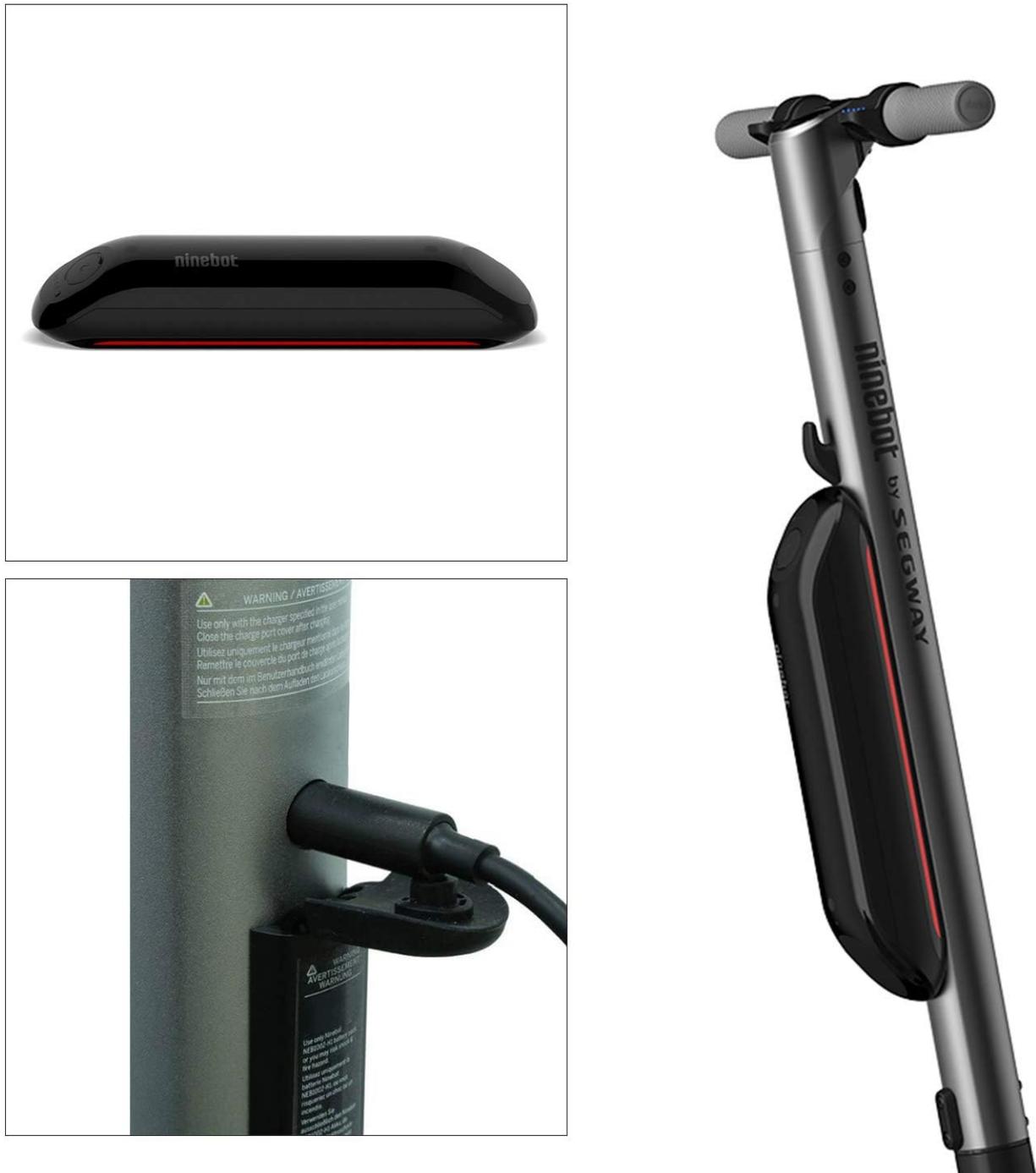


Figure 3: Charging process and specifications overview.

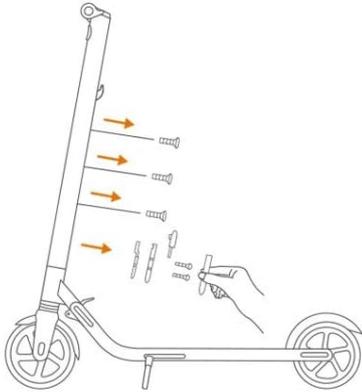
5. OPERATING INSTRUCTIONS

Once installed, the external battery pack integrates seamlessly with your Segway-Ninebot scooter's existing power system. The scooter's Smart Battery Management System will automatically manage power distribution between the internal and external batteries.

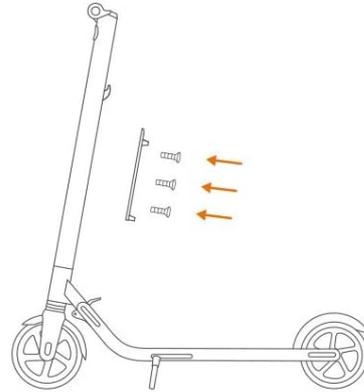
The addition of the external battery pack significantly boosts performance:

- **Extended Range:** Nearly doubles the maximum range of ES1 and ES2 models from 15.5 miles to approximately 28 miles.
- **Increased Speed:** Increases the maximum speed of ES1 to 15.5 mph and ES2 to 18.6 mph.

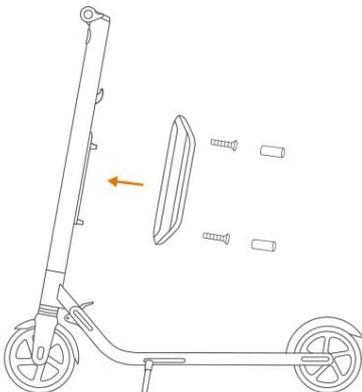
Effortless Installation



1. Remove the cover



2. Install the rail



3. Attach the extended battery



4. Ready to ride

Figure 4: Enjoying an extended ride with the external battery pack.

6. MAINTENANCE

To ensure the longevity and optimal performance of your external battery pack:

- Always store the battery in a cool, dry place when not in use.
- Avoid fully discharging the battery frequently. It is recommended to keep the charge level above 10-20%.
- Charge the battery regularly, even if not in use, to maintain its health.
- Keep the battery pack clean and free from debris.

7. TROUBLESHOOTING

If you encounter any issues with your external battery pack, consider the following:

- **Charging Issues:** Ensure the charger is properly connected to both the battery pack and a working power outlet. Check the indicator lights on the charger and battery for status.
- **Performance Issues:** Verify that the battery pack is securely installed and all connections are firm. Ensure both the external and internal batteries have sufficient charge.
- **Error Codes:** If your scooter displays an error code, refer to your main Segway-Ninebot scooter user manual for specific troubleshooting steps related to battery or system errors.

For persistent problems, contact Segway-Ninebot customer support.

8. SPECIFICATIONS

Item	Specification
Model Number	NEB1002-H1
Compatible Models	Segway-Ninebot ES1, ES2, ES4
Battery Type	Lithium Ion
Nominal Voltage	32VCD
Max. Charging Voltage	42VDC
Nominal Capacity	187Wh
Rated Output Power	720W
Charging Temperature	32 - 104° F (0–40° C)
Charging Time	Approximately 3 hours
Item Weight	3.3 pounds (1.5 kg)
Product Dimensions	17 x 5 x 5 inches
Battery Management System	Over-heating, short circuit, over-current, and over-charge protection
Certifications	UL 2272 Certified

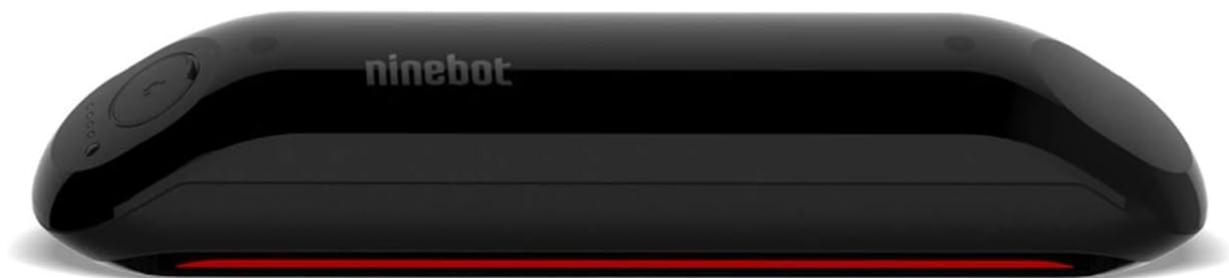


Figure 5: Product packaging details and specifications.

9. WARRANTY AND SUPPORT

The Segway-Ninebot External Battery Pack includes a 6-month warranty. Please retain your proof of purchase for warranty claims.

For technical assistance, warranty inquiries, or further information, please visit the official Segway-Ninebot

website or contact their customer support directly. Always refer to the official product documentation for the most up-to-date information.