Nolan ENCOM00000001

NOLAN N-COM ESS Emergency Stop Signal User Manual

Model: ENCOM00000001

1. Introduction

The Nolan N-Com ESS (Emergency Stop Signal) is an advanced safety device designed to enhance rider visibility during emergency braking. This system integrates with compatible Nolan N-Com ready helmets to provide an automatic LED brake light function, activating when significant deceleration is detected. This manual provides essential information for the correct installation, operation, and maintenance of your N-Com ESS unit.

1.1. Safety Information

- Read all instructions carefully before installation and use.
- Ensure the unit is securely mounted to prevent detachment during riding.
- Do not attempt to modify the device. Unauthorized modifications may compromise safety and void the warranty.
- Always prioritize road safety. The ESS is an auxiliary safety device and does not replace safe riding practices.
- Consult a qualified technician if you are unsure about any installation steps.

2. Package Contents

Verify that all components are present in the package:

- Nolan N-Com ESS Emergency Stop Signal Unit (1)
- Mounting hardware/kit (specific to helmet model)
- User Manual

3. Compatibility

The N-Com ESS Emergency Stop Signal is designed for integration with the following Nolan N-Com ready helmet models:

- N104 Absolute
- N104 EVO
- N104
- N87
- N44EVO
- N44
- N40FULL
- N40

Ensure your helmet is one of the listed compatible models before attempting installation.

4. Setup and Installation

The N-Com ESS unit is designed for rear mounting on compatible Nolan helmets. The installation process typically involves securing the unit and connecting it to the helmet's N-Com communication system (if applicable) or a dedicated power source.

4.1. General Installation Steps

1. **Prepare the Helmet:** Ensure the helmet is clean and dry in the area where the ESS unit will be mounted. Refer to your helmet's specific N-Com preparation instructions.
2. **Mount the ESS Unit:** Carefully position the ESS unit at the rear of the helmet, typically in a designated slot or mounting area. Use the provided mounting hardware to secure the unit firmly. Ensure it is aligned correctly for optimal visibility.
3. **Connect to Power/N-Com System:** Connect the ESS unit's cable to the appropriate port on your helmet's N-Com communication system or directly to a 12V power source if it's a standalone installation. Follow the specific wiring diagrams provided with your N-Com system or ESS unit.
4. **Initial Test:** After installation, perform a static test to ensure the unit powers on and the LED functions correctly.

Note: The ESS unit is waterproof, ensuring reliable operation in various weather conditions.

Image 1: Nolan N-Com ESS Emergency Stop Signal unit. This image shows the compact design of the ESS unit, typically mounted on the rear of a motorcycle helmet.

5. Operating Instructions

The N-Com ESS system operates automatically. Once correctly installed and powered, it continuously monitors the helmet's deceleration. When a significant deceleration event (indicating emergency braking) is detected, the integrated LED light activates, providing a clear visual warning to following vehicles.

5.1. Sensitivity Adjustment

The sensitivity of the deceleration sensor may be adjustable to suit individual riding styles and preferences. Refer to the detailed N-Com system manual or the specific ESS instructions for your model to learn how to adjust the sensitivity. Proper adjustment ensures the light activates reliably during actual emergency braking without triggering unnecessarily during normal riding.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your N-Com ESS unit.

- **Cleaning:** Clean the exterior of the ESS unit with a soft, damp cloth. Avoid using abrasive cleaners or solvents, which can damage the housing or LED lens.
- **Connection Check:** Periodically inspect the electrical connections to ensure they are secure and free from corrosion.
- **Functionality Test:** Before each ride, perform a quick check to ensure the LED light activates when the helmet is subjected to a sudden forward tilt (simulating braking).
- **Storage:** When not in use for extended periods, store the helmet and ESS unit in a dry, cool place away from direct sunlight.

7. Troubleshooting

If you encounter issues with your N-Com ESS unit, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
LED light does not activate	No power, loose connection, faulty unit	Check all connections. Ensure the N-Com system or power source is active. If issues persist, contact support.
LED light activates too frequently (false positives)	Sensitivity set too high	Adjust the sensitivity setting to a lower level. Refer to the N-Com system manual for specific instructions.
LED light does not activate during hard braking	Sensitivity set too low, improper mounting	Increase the sensitivity setting. Verify the unit is securely and correctly mounted on the helmet.

If these steps do not resolve the issue, please contact Nolan customer support.

8. Specifications

Feature	Specification
Model Number	ENCOM00000001
Brand	Nolan
Dimensions (L x W x H)	16.4 x 13.8 x 5.2 cm
Weight	220 grams
Voltage	12 Volts
Light Type	LED
Special Features	Waterproof
Mounting Position	Rear

9. Warranty and Support

For warranty information, please refer to the documentation provided with your purchase or contact your retailer. Nolan provides customer support for its products. For technical assistance, spare parts, or further inquiries, please visit the official Nolan website or contact their authorized service centers.

Always retain your proof of purchase for warranty claims.