

Nolan N90-3

Nolan N90-3 Modular Helmet User Manual

Comprehensive instructions for safe and effective use.

1. INTRODUCTION

The Nolan N90-3 is a state-of-the-art modular helmet designed for both scooter and motorcycle riders. It features a solid and compact design, incorporating advanced technical specifications for enhanced safety and comfort. This helmet holds Double P/J homologation, ensuring it meets stringent safety standards for both open-face (Jet) and full-face (Protective) configurations.

Key features include an ultrawide visor, an adjustable VPS sun visor, the AirBooster Technology ventilation system, an exclusive dual-action chin guard opening mechanism, and a Microlock2 retention system. The N90-3 is also prepared for the N-Com communication system and the ESS (Emergency Stop Signal) system.



Image 1.1: Front view of the Nolan N90-3 Solid Modular Helmet in Slate Grey. This image displays the helmet's sleek design, the clear ultrawide visor, and the integrated sun visor mechanism on the side.

2. SAFETY INFORMATION

Your safety is paramount. Always wear a helmet that fits correctly and is securely fastened. The Nolan N90-3 helmet is certified with DOT and EN 22-05 P/J homologation, indicating compliance with safety standards for both full-face and open-face use. Never modify your helmet, as this can compromise its protective capabilities.

- Always ensure the chin strap is securely fastened using the Microlock2 system before riding.
- Never ride with the chin guard in the raised position unless specifically designed for it and conditions permit.
- Regularly inspect your helmet for any signs of damage. If the helmet has sustained an impact, it must be replaced, even if visible damage is not apparent.
- Do not use solvents, gasoline, or abrasive cleaners on any part of the helmet.

3. SETUP AND FITTING

3.1 Choosing the Correct Size

A properly fitting helmet is crucial for safety and comfort. Refer to the size chart below to determine your head circumference and corresponding helmet size. The helmet should fit snugly around your head without causing pressure points.

Helmet sizes											
Head circumference in cm	54	55	56	58	59	60	61	62	63	64	65
N100-5 / N100-5 PLUS	XXS	XS	S	M	-	L	-	XL	-	XXL	3XL
N90-2	XXS	XS	S	M	-	L	-	XL	XXL	-	-
N87 / N87 PLUS	XXS	XS	S	M	-	-	L	XL	XXL	3XL	-
N70-2 X / N70-2 GT	XXS	XS	S	M	-	L	-	XL	-	XXL	3XL
N60-5	XXS	XS	S	M	-	L	-	XL	XXL	-	-
N53	XXS	XS	S	M	-	L	XL	-	XXL	3XL	-
N40-5 / N40-5 GT	XXS	XS	S	M	-	L	-	XL	XXL	-	-
N33 EVO	XXS	XS	S	M	-	L	XL	-	-	-	-
N21 / N21 VISOR	XXS	XS	S	M	L	-	XL	-	XXL	3XL	-
X-1004 (ULTRA CARBON) / X-903 (ULTRA CARBON)	XXS	XS	S	M	-	L	-	XL	-	XXL	3XL
X-803 (R5) ULTRA CARBON / X-661	XXS	XS	S	M	-	L	-	XL	-	XXL	-
X-502 ULTRA CARBON / X-403 GT (ULTRA CARBON)	XXS	XS	S	M	-	L	-	XL	-	XXL	3XL
G9.1 Evolve / G6.2 / G4.1 / G4.2 PRO	-	XS	S	M	-	L	-	XL	XXL	-	-
G3.1E	XXS	XS	S	M	-	L	-	XL	XXL	-	-

Image 3.1: Nolan Helmet Size Chart. This chart provides head circumference measurements in centimeters and corresponding helmet sizes (XXS to 3XL) for various Nolan helmet models, including the N90-3.

3.2 Initial Fit Check

1. Place the helmet on your head, ensuring it sits level and covers your forehead.
2. Fasten the Microlock2 retention system. It should be snug under your chin, but not uncomfortably tight.
3. With the chin strap fastened, try to move the helmet from side to side and up and down. Your skin should move with the helmet, indicating a good fit. The helmet should not slide freely.
4. Check for any pressure points that could become uncomfortable during extended wear.

4. OPERATING THE HELMET FEATURES

4.1 Visor Operation

The N90-3 features an ultrawide visor made of Lexan with a scratch-resistant coating. It provides a wide field of vision. The visor can be opened and closed manually. The helmet is also equipped with a Pinlock system, which helps prevent fogging. Ensure the Pinlock insert is correctly installed for optimal anti-fog performance.

4.2 VPS Sun Visor

The VPS (Vision Protection System) sun visor is dark tinted, made of Lexan, and features UV 400 protection, scratch-resistant, and anti-fog coatings. It can be adjusted to various positions using the slider mechanism located on the left side of the helmet. Lower the sun visor for protection from glare and raise it when not needed.

4.3 Chin Guard Mechanism

The N90-3 features an exclusive dual-action chin guard opening mechanism. To open the chin guard, simultaneously press the two release buttons located at the center of the chin guard. This dual-action system minimizes the risk of accidental opening. To close, simply push the chin guard down until it securely latches into place.

4.4 Ventilation System (AirBooster Technology)

The AirBooster Technology ensures optimal ventilation within the helmet. It includes:

- **Upper Ventilation:** Adjustable vents on the top of the helmet allow air intake.
- **Chin Guard Air Inlet:** An adjustable air inlet on the chin guard directs airflow to the visor and face.
- **Rear Air Outlet:** Exhaust vents at the rear of the helmet facilitate the expulsion of hot, stale air.

Adjust these vents as needed to maintain comfort and prevent fogging.

4.5 N-Com Communication System Preparation

The N90-3 is prepared for the installation of the N-Com communication system. Refer to the specific N-Com system manual for installation and operation instructions.

4.6 ESS (Emergency Stop Signal) System Preparation

The helmet is prepared for the ESS system, which uses an LED light to signal sudden deceleration. Consult the ESS system's dedicated manual for installation and usage details.

5. MAINTENANCE AND CARE

5.1 Cleaning the Shell

Clean the helmet shell with a soft cloth, warm water, and mild soap. Avoid abrasive cleaners, solvents, or petroleum-based products, as these can damage the helmet's finish and materials.

5.2 Visor and Sun Visor Cleaning

Clean the visor and sun visor with a soft, damp cloth and warm water. For stubborn dirt, use a specialized helmet visor cleaner. Do not use abrasive materials or harsh chemicals, which can scratch or damage the coatings.

5.3 Interior Lining

The N90-3 features a removable climate comfort interior lining. Remove the lining according to the instructions provided in the full manual (if available) and hand wash it with mild soap and water. Allow it to air dry completely before reinstallation.

5.4 Storage

Store your helmet in a cool, dry place away from direct sunlight and extreme temperatures. Use a helmet bag to protect it from dust and scratches.

6. TROUBLESHOOTING

- **Visor Fogging:** Ensure the Pinlock insert is correctly installed. Utilize the ventilation system by opening the chin guard and upper vents.
- **Chin Guard Not Latching:** Check for any obstructions in the locking mechanism. Ensure both release buttons are fully disengaged before attempting to close.
- **Excessive Noise:** Ensure all vents are closed if not needed. Check that the visor and chin guard are fully closed and sealed.
- **Uncomfortable Fit:** Re-evaluate your helmet size using the size chart. Ensure the interior padding is correctly seated.

For issues not listed here, please contact Nolan customer support or your authorized dealer.

7. SPECIFICATIONS

Feature	Description
Model Name	Nolan N90-3
Shell Type	Hard
Homologation	DOT, EN 22-05 P/J
Visor	Ultrawide, Lexan, Scratch-resistant coating, Pinlock-ready
Sun Visor	VPS (Vision Protection System), UV 400, Dark tinted, Lexan, Scratch-resistant, Anti-fog coated, Adjustable
Ventilation	AirBooster Technology (Upper, Chin Guard, Rear Outlet)
Chin Guard Mechanism	Dual-action opening
Retention System	Microlock2 with micrometric adjustment
Communication System	Prepared for N-Com
Emergency Stop Signal	Prepared for ESS system
Interior	Removable Climate Comfort, Wind protector
Shape	Aerodynamic
Suggested Users	Unisex-adult
Vehicle Service Type	Scooter, Motorcycling

8. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your purchase or visit the official Nolan Helmets website. For technical support, spare parts, or service, please contact your authorized Nolan dealer or Nolan customer service directly. Always provide your helmet's model and serial number when seeking support.

Related Documents - N90-3



Nolan N90-3 Helmet: Safety and Usage Instructions

Comprehensive guide to the Nolan N90-3 modular helmet, covering safety features, usage instructions, maintenance, and assembly of components like the visor and Pinlock system.



Nolan X-903: Safety and Instructions for Use

Comprehensive guide to the Nolan X-903 motorcycle helmet, covering safety features, usage instructions, maintenance, and care for optimal performance and rider protection.



Nolan N100-6 Modular Helmet: Safety and Instructions

Comprehensive guide to the Nolan N100-6 modular helmet, covering safety, usage, maintenance, and features like the Dual Action chin guard and VPS sun shield.



Nolan N120-1 Helmet: Safety and Usage Instructions

Comprehensive guide for the Nolan N120-1 helmet, covering safety features, proper usage, maintenance, and care. Learn how to adjust, clean, and ensure the optimal performance of your helmet for maximum protection.



NOLAN X-1005 Motorcycle Helmet: Safety and User Instructions

Comprehensive guide for the NOLAN X-1005 motorcycle helmet, covering safety features, usage instructions, maintenance, cleaning, and component assembly/disassembly. Ensure safe and optimal use of your NOLAN helmet.



[Nolan N21 Visor: Guida alla Sicurezza e all'Uso](#)

Scopri come utilizzare in sicurezza il tuo casco Nolan N21 Visor con questa guida completa.

Include istruzioni dettagliate per il montaggio, la manutenzione e le precauzioni d'uso per garantire la massima protezione.

