

Nolan N90-3

Nolan N90-3 Modular Helmet Instruction Manual

Model: N90-3

1. PRODUCT OVERVIEW

The Nolan N90-3 is a modular flip-up helmet designed for both scooter and motorbike use. It features a solid and compact design with advanced technical specifications for enhanced safety and comfort.

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



Figure 1: Front view of the Nolan N90-3 Modular Helmet. This image shows the overall design and the position of the main visor.

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 (RS) 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	-	-	

Figure 2: Side view of the Nolan N90-3 Modular Helmet. This image highlights the profile and modular chin bar mechanism.

2. SAFETY INFORMATION

Always wear a helmet that fits correctly and is securely fastened. This helmet meets DOT and EN 22-05 P/J homologation standards. Never modify the helmet in any way, as this can compromise its protective capabilities. Replace the helmet after any impact, even if visible damage is not apparent.

3. SETUP AND INITIAL USE

3.1. Helmet Fitting and Size Chart

Ensure the helmet fits snugly around your head without causing pressure points. The cheek pads should be firm against your face. If the helmet moves freely when you shake your head, it is too large. Use the following size chart as a guide to determine the correct helmet size based on your head circumference.

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	-	XXL	3XL	-
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	-	-
X-803 (RS) 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	-	-

Table 1: Nolan Helmet Size Chart. This table provides head circumference measurements in centimeters and corresponding helmet sizes (XXS to 3XL) for various Nolan helmet models. For the N90-3, refer to the row labeled "N90-2" as sizing is often consistent across similar models, or consult specific N90-3 documentation if available.

3.2. Visor and Sun Visor

- The main visor is made of Lexan and features a scratch-resistant coating.
- The VPS sun visor offers UV 400 protection, is dark tinted, scratch-resistant, and anti-fog coated. It can be adjusted to various positions using the external slider on the left side of the helmet.

- The helmet is prepared for a Pinlock anti-fog insert with adjustable pins. Install the Pinlock insert according to its specific instructions for optimal anti-fog performance.

3.3. Communication and Safety Systems

- **N-Com Communication System:** The N90-3 is prepared for integration with the N-Com communication system. Follow the N-Com system's specific installation instructions.
- **ESS (Emergency Stop Signal) System:** The helmet is prepared for the ESS system, which uses LED lights to signal sudden deceleration. Install the ESS system according to its specific instructions.

4. OPERATING THE HELMET

4.1. Chin Guard Operation

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 mechanism minimizes the risk of accidental opening.

4.2. Retention System (Microlock2)

The Microlock2 retention system provides micrometric adjustment for a secure and comfortable fit. To fasten, insert the tab into the buckle until it clicks. To release, lift the red lever and pull the tab out. Ensure the strap is snug under your chin without being overly tight.

4.3. Ventilation System

The AirBooster Technology upper ventilation system, along with an air inlet on the chin guard and a rear air outlet, ensures optimal airflow. Adjust the vents as needed for comfort and to prevent fogging.

- **Upper Ventilation:** Slide the lever on the top of the helmet to open or close the upper air intakes.
- **Chin Guard Vent:** Operate the slider on the chin guard to control airflow to the mouth and visor area.
- **Rear Air Outlet:** Integrated into the helmet's design to allow hot air to escape.

5. MAINTENANCE AND CARE

5.1. Cleaning the Helmet Shell

Clean the helmet shell with a soft cloth and mild soap and water. Avoid abrasive cleaners, solvents, or petroleum-based products, as these can damage the shell material and protective coatings.

5.2. Visor and Sun Visor Cleaning

Clean the visor and sun visor with a soft, damp cloth and mild soap. Rinse thoroughly with clean water and allow to air dry. Do not use abrasive materials or harsh chemicals, which can scratch or damage the coatings.

5.3. Removable Interior

The climate comfort interior lining is removable for cleaning. Hand wash with mild soap and water, then air dry completely before reinserting. Ensure all components are correctly reinstalled before using the helmet.

5.4. Wind Protector

The wind protector can be removed for cleaning or replacement. Clean with mild soap and water. Ensure it is securely reattached before riding.

6. TROUBLESHOOTING

- **Visor Fogging:** Ensure the Pinlock insert is correctly installed. Utilize the chin guard and upper ventilation systems to increase airflow.
- **Chin Guard Not Latching:** Verify that both release buttons are fully engaged when closing the chin guard. Check for any obstructions.
- **Retention System Issues:** If the Microlock2 system feels loose or damaged, discontinue use and contact support.

7. SPECIFICATIONS

Feature	Description
Model Name	Nolan N90-3
Brand	Nolan
Shell Type	Hard
Material	Polycarbonate (PC)
Certification	DOT, EN 22-05 P/J Homologation
Visor	Lexan, scratch-resistant coating, ultrawide
Sun Visor	VPS, UV 400 protection, dark tinted, scratch-resistant, anti-fog coated, adjustable
Ventilation	AirBooster Technology (upper), chin guard inlet, rear outlet
Retention System	Microlock2 (double lever, micrometric adjustment)
Chin Guard Mechanism	Exclusive dual-action opening
Prepared For	N-Com communication system, ESS (Emergency Stop Signal) system
Suggested Users	Unisex-adult
Vehicle Service Type	Scooter, Motorbike

8. WARRANTY INFORMATION

This Nolan helmet is covered by a manufacturer’s warranty against defects in materials and workmanship. For specific warranty terms, conditions, and duration, please refer to the official warranty documentation provided with your helmet or visit the official Nolan Helmets website. Keep your proof of purchase for warranty claims.

9. SUPPORT AND CONTACT

For technical assistance, spare parts, or further inquiries regarding your Nolan N90-3 helmet, please contact Nolan customer support through their official website or authorized dealers. Always provide your helmet model and purchase details when seeking support.

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