

HJC RPHA 91 Carbon

HJC RPHA 91 Carbon Helmet User Manual

Model: RPHA 91 Carbon | Brand: HJC

1. INTRODUCTION

This manual provides essential information for the proper use, setup, operation, and maintenance of your HJC RPHA 91 Carbon Helmet. Please read this manual thoroughly before using your helmet to ensure maximum safety and to understand its features. Keep this manual for future reference.

2. SAFETY INFORMATION

Your HJC RPHA 91 Carbon Helmet is designed to provide protection during motorcycle riding. Adherence to safety guidelines is crucial.

2.1 Certifications

- **ECE 22.06 Certified:** This helmet meets the European safety standard ECE 22.06, ensuring a high level of protection.
- **FMVSS 218 Certified (DOT Approved):** This helmet complies with the U.S. Federal Motor Vehicle Safety Standard 218, commonly known as DOT approval.

2.2 General Safety Warnings

- **Proper Fit:** Always ensure your helmet fits snugly and securely. An improperly fitted helmet can reduce its protective capabilities.
- **No Modifications:** Never modify your helmet in any way (e.g., drilling holes, painting with non-approved chemicals). Modifications can compromise the helmet's structural integrity.
- **Replace After Impact:** A helmet that has sustained an impact, even if it appears undamaged, must be replaced immediately. The protective materials may be compromised.
- **Visibility:** Ensure your visor is clean and free from obstructions. Use the Pinlock anti-fog insert in cold or humid conditions.

3. PRODUCT FEATURES

The HJC RPHA 91 Carbon Helmet incorporates advanced features for comfort, safety, and performance.

3.1 Shell Construction

The helmet features a **Premium Integrated Matrix (PIM) EVO CARBON Carbon Fiber Outer Shell**. This advanced composite material provides enhanced shock-resistant performance while maintaining a lightweight structure for rider comfort.



Image: Front view of the HJC RPHA 91 Carbon Helmet, showcasing its carbon fiber finish and clear visor.

3.2 Aerodynamics

An **aerodynamic shell design** reduces air resistance and contributes to stability, particularly at higher speeds, minimizing rider fatigue.



Image: Rear-side view of the HJC RPHA 91 Carbon Helmet, highlighting its aerodynamic shape and exhaust vents.

3.3 Ventilation System

The helmet is equipped with **five intake and seven exhaust vents**. This system ensures continuous air circulation, providing comfort and reducing heat buildup inside the helmet.



Image: Top view of the HJC RPHA 91 Carbon Helmet, showing the central intake and exhaust vents.

3.4 HJ-37 Visor

- **UV Protection:** Provides 99% UV protection.
- **Coated:** The visor is coated for enhanced durability and clarity.
- **Pinlock Ready:** Designed to accept a Pinlock anti-fog insert, which is included to prevent fogging in various weather conditions.
- **Easy Operation:** The new ratchet system allows for easy attachment, detachment, and smooth operation of the visor, holding it securely in place.

3.5 HJ-V17 Sun Shield

An **adjustable dark smoke Dynamic Multi-step sun shield** is integrated into the helmet, allowing for optimized positioning to adapt to changing light conditions.

3.6 Interior Comfort

- **Fabric:** Features moisture-wicking and dry interior fabric for enhanced comfort during rides.
- **Cheek Pads:** 3D contour cheek pads provide a comfortable and secure fit.

- **Removable & Washable:** Crown and cheek pads are fully removable and washable for hygiene and maintenance.
- **Interchangeable Cheek Pads:** Cheek pads are interchangeable across all helmet sizes, allowing for fine-tuning of the fit.

3.7 Chinstrap

A **micro buckle chinstrap** system ensures a secure and easily adjustable fastening.

3.8 Smart HJC Compatibility

The helmet is designed to be compatible with **Smart HJC 21B and 50B communication systems**, allowing for seamless integration of communication devices.

3.9 Glasses Groove

A dedicated **glasses groove** is incorporated to accommodate riders who wear eyeglasses, enhancing comfort and reducing pressure points.

4. SETUP

4.1 Helmet Fitting

A properly fitting helmet is critical for safety. The helmet should feel snug around your head and cheeks without causing uncomfortable pressure points. It should not move freely when you shake your head. If the helmet moves, try a smaller size or adjust the cheek pads if interchangeable options are available.

4.2 Visor (HJ-37) Installation and Removal

1. **Removal:** Open the visor fully. Locate the release mechanism on each side of the visor base. Follow the specific instructions provided with your helmet for engaging the release and detaching the visor.
2. **Installation:** Align the visor's pivot points with the helmet's base plates. Press firmly until you hear a click, indicating it is securely locked into place. Test the visor's movement to ensure proper installation.

4.3 Sun Shield (HJ-V17) Adjustment

The internal sun shield can be adjusted using the slider mechanism located on the side or top of the helmet. Move the slider to deploy or retract the sun shield to your desired position for optimal vision in varying light conditions.

5. OPERATION

5.1 Ventilation System

The helmet's ventilation system includes intake vents (typically on the chin bar and forehead) and exhaust vents (at the rear). Open the intake vents to allow fresh air in and open the exhaust vents to allow warm air out. Adjust these vents as needed to control airflow and internal temperature.

5.2 Modular Function

The RPHA 91 is a modular helmet, allowing the chin bar to be raised. To operate the modular function:

1. **To Open:** Locate the release button or lever, typically on the front center of the chin bar. Press the

button and lift the chin bar upwards until it locks into its open position.

2. **To Close:** Firmly pull the chin bar down until it securely latches into the closed position. Ensure it is fully locked before riding.



Image: Side view of the HJC RPHA 91 Carbon Helmet with the modular chin bar raised, demonstrating its versatility.

5.3 Chinstrap Fastening (Micro Buckle)

To fasten the micro buckle chinstrap:

1. Insert the ribbed strap into the buckle until it is snug against your chin.
2. To release, pull the red tab on the buckle, and the strap will disengage.
3. Always ensure the chinstrap is securely fastened and adjusted before riding.

6. MAINTENANCE

Regular maintenance will prolong the life and effectiveness of your helmet.

6.1 Exterior Cleaning

Clean the helmet's exterior with a soft cloth, mild soap, and lukewarm water. Avoid harsh chemicals, solvents, or abrasive cleaners, as these can damage the shell finish and protective coatings.

6.2 Visor and Sun Shield Care

Clean the visor and sun shield with a soft, lint-free cloth and lukewarm water. For stubborn dirt, use a specialized helmet visor cleaner. Do not use abrasive materials or harsh chemicals. Handle the Pinlock insert carefully to avoid scratching its surface.

6.3 Interior Cleaning

The crown and cheek pads are removable and washable:

1. **Removal:** Carefully detach the interior pads from the helmet shell. Refer to your helmet's specific instructions for the exact attachment points.
2. **Washing:** Hand wash the pads in cold water with a mild detergent. Do not use bleach or harsh chemicals.
3. **Drying:** Air dry the pads completely in a shaded area. Do not tumble dry or expose to direct heat.
4. **Reinstallation:** Once completely dry, carefully reinsert the pads into the helmet, ensuring all attachment points are secure.

6.4 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.

7. SPECIFICATIONS

Feature	Detail
Model Name	RPHA 91 Carbon Helmet
Brand	HJC
Part Number	0850-1199-07
UPC	190501249470
Shell Material	Premium Integrated Matrix (PIM) EVO CARBON Carbon Fiber
Certifications	ECE 22.06, FMVSS 218 (DOT Approved)
Visor Type	HJ-37 (Pinlock Ready, 99% UV Protection, Coated)
Sun Shield Type	HJ-V17 (Adjustable Dark Smoke Dynamic Multi-step)
Ventilation	5 Intake, 7 Exhaust Vents
Interior	Moisture-wicking, Dry Fabric, 3D Contour Cheek Pads (Removable & Washable)
Chinstrap	Micro Buckle
Compatibility	SMART HJC 21B and 50B Ready
Special Features	Glasses Groove, Aerodynamic Shell Design

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your helmet.

8.1 Visor Fogging

- **Solution:** Ensure the Pinlock anti-fog insert is correctly installed. Open the chin vent slightly to increase airflow.

8.2 Loose Fit

- **Solution:** Re-evaluate your helmet size. If the helmet is too large, it will not provide adequate protection. Consider if interchangeable cheek pads are available to achieve a tighter fit.

8.3 Excessive Wind Noise

- **Solution:** Ensure all vents are closed if not needed. Check that the visor and chin bar are fully closed and sealed. A proper fit also helps reduce wind noise.

9. WARRANTY AND SUPPORT

For warranty information, claims, or technical support regarding your HJC RPHA 91 Carbon Helmet, please refer to the official HJC website or contact your authorized HJC dealer. Keep your proof of purchase for any warranty-related inquiries.