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HJC i91

HJC Helmets i91 Poly Modular Motorcycle Helmet Instruction Manual

Model: i91

1. INTRODUCTION AND OVERVIEW

This manual provides essential information for the safe and effective use, maintenance, and care of your HJC i91 Poly Modular Motorcycle Helmet. Please read this manual thoroughly before using your helmet to ensure proper understanding of its features and functions.



Image: Front-side view of the HJC i91 Modular Motorcycle Helmet in MC21 color scheme (white, blue, red accents).

2. SAFETY INFORMATION

2.1 DOT Certification

The HJC i91 helmet is DOT-approved, meeting stringent DOT FMVSS 218 standards. This certification signifies that the helmet has undergone rigorous testing for:

- Energy absorption
- Penetration resistance
- Secure chin strap testing
- Labeling requirements for on-road motorcycle helmets



SUN VISOR: HJ-V12

Integrated Sun Visor: Improved peripheral vision with adequate sunlight reduction to minimize eye strain.

Image: A close-up view of a helmet undergoing impact testing, illustrating the DOT certification process.

2.2 Proposition 65 Warning

This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov.

3. PRODUCT FEATURES

3.1 Advanced Polycarbonate Composite Shell

The i91 features an advanced polycarbonate composite shell, engineered with CAD technology. This construction ensures a lightweight design while providing a comfortable and secure fit.



SHIELD: HJ-33

99% UV-A & B protection

Pinlock® ready shield

Image: A motorcyclist wearing an HJC helmet, highlighting the helmet's polycarbonate shell design.

3.2 Supercool Interior

The interior of the i91 helmet is designed for maximum comfort during long rides. Key features include:

- Moisture-wicking and quick-drying liner.
- Antibacterial fabric for hygiene.
- Removable and washable cheek and crown pads for easy maintenance.
- Interchangeable cheek pads across all sizes for a customized fit.
- Glasses grooves to enhance comfort for eyewear users.



SMART HJC 2nd Gen.

The SMART HJC 2nd generation premium Bluetooth communication system models implement an all-in-one design, that is fully integrated into the helmet, allowing you to feel the optimal weight balance and aerodynamic performance while riding. Co-developed with SENA and tailored specially for HJC helmets. *All SMART HJC devices are sold separately.

Image: Hands demonstrating the removal of the helmet's interior lining, showcasing the Supercool fabric.

3.3 HJ-33 Pinlock Ready Shield

The HJ-33 shield provides 99% UV protection and features an anti-scratch coating. It is Pinlock ready for anti-fog insert installation (Pinlock insert included). Optional shields are available separately, including RST Mirrored Pinlock Ready Shield.



POLYCARBONATE SHELL

The Advanced Polycarbonate Shell is designed to be lightweight with a superior fit and comfort, using CAD technology.

Image: A blue HJC helmet with its clear HJ-33 shield in place.

3.4 HJ-V12 Integrated Sun Visor

The helmet includes an integrated HJ-V12 sun visor with an anti-scratch coating. This dynamic multi-step sun visor allows for optimized positioning to reduce eye strain from sunlight while improving peripheral vision.



SUPERCOOL INTERIOR

Supercool Interior keeps the rider cool and fresh with moisture-wicking, antibacterial fabric.

Removable Interior

Glasses grooves: Accommodates riders who wear eyeglasses and sunglasses.

Image: A motorcyclist wearing an HJC helmet, demonstrating the integrated sun visor in use.

3.5 Advanced Channeling Ventilation System (ACS)

The ACS provides full front-to-back airflow, effectively expelling heat and humidity from the helmet to keep the rider cool and comfortable.

3.6 SMART HJC Bluetooth System Compatibility

The HJC i91 is designed to be compatible with SMART HJC 21B & 50B Bluetooth communication systems (sold separately). These systems offer an all-in-one design fully integrated into the helmet for optimal weight balance and aerodynamic performance.



Image: A person adjusting a SMART HJC Bluetooth communication system integrated into the side of a helmet.

4. SETUP AND FITTING

4.1 Proper Helmet Fit

A properly fitting helmet is crucial for safety. The helmet should fit snugly around your head without causing pressure points. To check the fit:

1. Place the helmet on your head, ensuring the top of your head touches the top of the helmet.
2. Fasten the chin strap securely. It should be tight enough that you cannot pull the helmet off your head when tilting it forward or backward.
3. With the chin strap fastened, try to rotate the helmet from side to side. Your skin should move with the helmet, indicating a snug fit. If the helmet slides easily, it is too large.
4. Check for any uncomfortable pressure points. If present, consider trying a different size or adjusting the interior pads if possible.

4.2 Chin Strap Adjustment

The chin strap uses a quick-release buckle system. Ensure the strap is threaded correctly and tightened so that it is snug under your chin without being restrictive. The strap should not be able to slip over your chin when pulled firmly.

5. OPERATING INSTRUCTIONS

5.1 Modular Function (Chin Bar Operation)

The i91 is a modular helmet, allowing the chin bar to be raised. To operate:

- **To Open:** Locate the release button/lever, typically at the center front of the chin bar. Press the button and lift the chin bar upwards until it locks into the open position.
- **To Close:** Firmly pull the chin bar downwards until it clicks securely into place. Ensure it is fully latched before riding.

Warning: Do not ride with the chin bar in the open position at high speeds or in situations where full face protection is required.

5.2 Shield Operation (HJ-33)

The HJ-33 shield can be opened and closed manually. It features a multi-step ratchet system allowing it to be held in various open positions for ventilation.

- **Opening/Closing:** Grip the tab on the lower edge of the shield and lift or pull down.
- **Shield Removal/Installation:** Refer to the detailed instructions provided with your helmet for specific shield removal and installation procedures. This typically involves pressing release levers on the side plates.

5.3 Sun Visor Operation (HJ-V12)

The integrated sun visor is operated by a slider mechanism, usually located on the side or bottom edge of the helmet.

- **To Deploy:** Slide the lever forward/down to lower the sun visor.
- **To Retract:** Slide the lever backward/up to raise the sun visor back into the helmet shell.

5.4 Ventilation System

The i91 features adjustable vents to control airflow. Locate the front intake vents (chin and forehead) and rear exhaust vents. Open or close them as needed to regulate internal temperature and humidity.

6. MAINTENANCE AND CARE

6.1 Cleaning the Exterior Shell

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

6.2 Cleaning the Interior Liner

The Supercool interior liner is removable and washable. Hand wash the pads with mild soap and cool water, then air dry completely before reinstalling. Do not machine wash or tumble dry.

6.3 Cleaning the Shield and Sun Visor

Clean the HJ-33 shield and HJ-V12 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 chemical cleaners, which can scratch or damage the anti-scratch coating.

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. TROUBLESHOOTING

7.1 Fogging Shield

If your shield fogs up, ensure the Pinlock insert is properly installed. If fogging persists, slightly open the shield to the first detent for increased airflow, or ensure ventilation vents are open.

7.2 Loose Fit

If the helmet feels loose over time, check if the interior pads are correctly seated. If the helmet is still too loose, it

may be the wrong size. Consider using interchangeable cheek pads for a more customized fit if available for your size.

7.3 Chin Bar Not Latching

Ensure no obstructions are preventing the chin bar from fully closing. Apply firm, even pressure when closing until you hear a distinct click, indicating it is securely latched.

8. SPECIFICATIONS

Feature	Detail
Model Name	i91
Shell Material	Advanced Polycarbonate Composite
Safety Standard	DOT FMVSS 218 Approved
Main Shield	HJ-33 (Pinlock Ready, 99% UV Protection, Anti-scratch)
Sun Visor	HJ-V12 (Integrated, Anti-scratch, Dynamic Multi-step)
Interior	Supercool (Moisture-wicking, Removable, Washable, Glasses grooves)
Ventilation	Advanced Channeling Ventilation System (ACS)
Bluetooth Compatibility	SMART HJC 21B & 50B (Sold Separately)
Item Weight	3.47 pounds
Product Dimensions	15 x 11 x 11 inches
Item Model Number	0848-1021-06
Manufacturer Part Number	0000408282

9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the official HJC Helmets website or contact your authorized HJC dealer. Keep your proof of purchase for any warranty claims.

For additional resources and product information, visit the [HJC Store on Amazon](#).