

## ILM FM159BT-New

# ILM 159BT Bluetooth Modular Motorcycle Helmet User Manual

Model: FM159BT-New

## 1. INTRODUCTION

This manual provides essential information for the proper use, setup, and maintenance of your ILM 159BT Bluetooth Modular Motorcycle Helmet. Please read this manual thoroughly before using the helmet to ensure your safety and optimize your riding experience. The ILM 159BT helmet features a modular design, integrated Bluetooth communication, and a dual visor system.

## 2. SAFETY INFORMATION

Your safety is paramount. This helmet is designed to provide protection during motorcycle riding. Adhere to the following safety guidelines:

- **DOT Certification:** This helmet complies with FMVSS 218 and DOT safety standards. Always ensure the helmet is properly fastened before riding.
- **Proper Fit:** A helmet must fit snugly to provide effective protection. Refer to the sizing guide in Section 4.1.
- **Visor Use:** Always use the clear outer visor for optimal visibility, especially at night. The inner sun visor is for daytime use only to reduce glare.
- **Maintenance:** Do not modify the helmet structure or use harsh chemicals for cleaning, as this can compromise its protective capabilities.
- **Impact:** If the helmet sustains an impact, even if no visible damage is present, it should be replaced immediately.

## 3. PRODUCT OVERVIEW

The ILM 159BT helmet integrates several features for comfort, safety, and communication.

## DUAL VISOR SYSTEM

**Visor Lock:** \_\_\_\_\_  
added sealing, noise reduction

**Pins:** \_\_\_\_\_  
compatible with Pinlock30

**Clear Visor:** \_\_\_\_\_  
wide vision, detachable design

**Inner Visor:** \_\_\_\_\_  
glare protection, detachable design



Figure 3.1: Key components of the ILM 159BT helmet.

### 3.1. Helmet Structure

- **Modular Design:** The helmet features a flip-up front section, allowing conversion between full-face and open-face styles.
- **Dual Visor System:** Includes a clear outer visor (Pinlock30-ready) and an integrated retractable inner sun visor.
- **Ventilation System:** Multiple adjustable air vents are located at the mouth, top, and rear for airflow.
- **Comfort Liner:** Removable and washable sweat-absorbing liner for hygiene and comfort.

### 3.2. Integrated Bluetooth System

The helmet is equipped with an integrated Bluetooth 5.0 system for communication and audio playback.

- **Functions:** Supports intercom communication (2-3 riders), phone calls, and music playback.
- **Battery Life:** Up to 14 hours of talk time.
- **Controls:** An external control knob on the side of the helmet manages Bluetooth functions.

## 4. SETUP

### 4.1. Helmet Fitting

A correctly sized helmet is crucial for safety. Measure your head circumference as shown in the diagram below.

## DUAL VISOR SYSTEM

**Visor Lock:** \_\_\_\_\_  
added sealing, noise reduction

**Pins:** \_\_\_\_\_  
compatible with Pinlock30

**Clear Visor:** \_\_\_\_\_  
wide vision, detachable design

**Inner Visor:** \_\_\_\_\_  
glare protection, detachable design



Figure 4.1: Head measurement guide and size chart.

### Measurement Instructions:

1. Place a measuring tape approximately 1 inch (2.5 cm) above your eyebrows.
2. Wrap the tape around your head, just above your ears and around the widest part of the back of your head.
3. Refer to the size chart to find your corresponding helmet size. If your measurement falls between two sizes, choose the larger size for comfort, or the smaller size for a tighter fit, depending on preference.

**Note:** The helmet sizing may run slightly small. It is recommended to try on the helmet to ensure a secure and comfortable fit.

### 4.2. Bluetooth Pairing

The helmet's Bluetooth system allows connection to your mobile device and other compatible helmets.



Figure 4.2: Bluetooth communication features.

#### **Pairing with a Mobile Device:**

1. Ensure the helmet's Bluetooth unit is charged.
2. Press and hold the power button on the Bluetooth control unit until the indicator light flashes, indicating pairing mode.
3. On your mobile device, go to Bluetooth settings and search for available devices.
4. Select "ILM 159BT" (or similar name) from the list to connect.
5. Once connected, the indicator light will change, and you will hear a confirmation tone.

#### **Intercom Pairing (2-3 Riders):**

1. Ensure both helmets are powered on and in pairing mode (refer to individual helmet instructions for specific intercom pairing steps).
2. Initiate intercom pairing from one helmet's control unit.
3. Follow the voice prompts or indicator lights to confirm successful connection between helmets.

## **5. OPERATING INSTRUCTIONS**

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### **5.1. Modular Function**

The modular design allows you to switch between full-face and open-face configurations.

## TRUSTED PROTECTION RIDE AFTER RIDE

ABS shell combined with stretch lining  
for a more comfortable and safer ride



Figure 5.1: Modular and Full Face helmet styles.

To open the modular front, locate the release button (usually near the chin bar) and press it while lifting the chin bar upwards until it locks into the open position. To close, press the release button again and pull the chin bar down until it securely latches.

### 5.2. Visor Operation

The helmet features a dual visor system for varying light conditions.



Figure 5.2: HD Dual Visor system.

- **Outer Visor:** The clear outer visor can be raised or lowered manually. It is Pinlock30 compatible for anti-fog functionality (Pinlock insert not included).
- **Inner Sun Visor:** To deploy the inner sun visor, use the switch located on the side of the helmet

(refer to Figure 3.1). Push the switch forward to lower the visor and backward to retract it.

### 5.3. Ventilation System

Adjust the multiple air vents to control airflow and maintain comfort.



Figure 5.3: Efficient Ventilation system.

- **Mouth Air Vent:** Slide the lever on the chin bar to open or close the vent.
- **Top Air Vent:** Slide the switch on the top of the helmet to open or close the vent.
- **Rear Air Vent:** These vents are typically passive exhaust vents, working in conjunction with the front vents to draw air through the helmet.

### 5.4. Bluetooth Controls

The Bluetooth control unit on the side of the helmet manages all communication and audio functions.

- **Power On/Off:** Press and hold the main button for approximately 3 seconds.
- **Volume Adjustment:** Rotate the control knob clockwise to increase volume, counter-clockwise to decrease.
- **Music Play/Pause:** Short press the main button.
- **Answer/End Call:** Short press the main button during an incoming call or an active call.
- **Intercom Activation:** Consult the specific Bluetooth unit's manual for detailed intercom activation and switching between riders.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and effectiveness of your helmet.

### 6.1. Cleaning the Helmet Exterior

- Use a soft cloth and mild soap with lukewarm water.
- Avoid abrasive cleaners, solvents, or petroleum-based products, as these can damage the helmet's

shell and finish.

- Wipe gently and dry with a clean, soft cloth.

## 6.2. Visor Cleaning

- Remove the outer visor for thorough cleaning.
- Use a soft cloth and clean water. For stubborn dirt, use a specialized helmet visor cleaner.
- Do not use paper towels or rough cloths, as they can scratch the visor surface.

## 6.3. Removable Liner Care

The helmet features a removable and washable liner for hygiene.



Figure 6.1: Removable comfort liner.

1. Carefully detach the liner components from the helmet interior.
2. Hand wash the liner with mild soap and cold water.
3. Allow the liner to air dry completely before reinserting it into the helmet. Do not machine wash or tumble dry.

## 6.4. Bluetooth Unit Charging

The Bluetooth unit is powered by a rechargeable Lithium Ion battery.

- Locate the charging port on the Bluetooth unit (typically micro-USB).
- Connect the provided charging cable to a compatible USB power source.
- Charge the unit fully before first use and whenever the battery is low.

## 7. TROUBLESHOOTING

Refer to this section for solutions to common issues.

Problem	Possible Cause	Solution
Bluetooth not pairing	Unit not in pairing mode; low battery; interference	Ensure unit is in pairing mode (flashing light); charge battery; move away from other electronic devices.
No sound from speakers	Volume too low; unit not connected; speaker wires loose	Increase volume; re-pair Bluetooth; check speaker connections inside helmet.

Problem	Possible Cause	Solution
Intercom not connecting	Helmets not in intercom pairing mode; out of range	Ensure both helmets are in intercom pairing mode; reduce distance between helmets.
Excessive wind noise	Vents open; improper fit; visor not fully closed	Close all vents; ensure helmet fits snugly; ensure outer visor is fully closed and sealed.
Battery not charging	Faulty cable/charger; charging port issue	Try a different charging cable and power source; inspect charging port for damage.

## 8. SPECIFICATIONS

Feature	Detail
Model	FM159BT-New
Safety Rating	DOT Certified (FMVSS 218)
Bluetooth Version	5.0
Talk Time	Up to 14 hours
Intercom Riders	2-3 Riders
Battery Type	1 Lithium Ion battery (included)
Item Weight	3.86 pounds
Package Dimensions	14.57 x 10.83 x 10.83 inches

## 9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation included with your purchase or visit the official ILM website. Keep your proof of purchase for any warranty claims.