

## Trail Tech 732-FN3

# Trail Tech Digital Fan Kit Instruction Manual

For KTM 2016 250/350/450 XC-F/SX-F Motorcycles

Model: 732-FN3

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Trail Tech Digital Fan Kit, Model 732-FN3. This kit is designed to enhance the cooling system of your KTM 2016 250/350/450 XC-F/SX-F motorcycle, ensuring optimal engine temperature management.

Key features of this product include:

- Automatically activates the fan, keeping your engine in its optimum temperature range.
- Electronic temperature sensor for precise control.
- Improved reliability over mechanical switching solutions.
- Programmable set-point fan switch for customized operation.
- Installs without cutting of fluid lines, simplifying the installation process.

## 2. SAFETY INFORMATION

Please read all safety warnings and instructions carefully before installation and operation. Failure to follow these instructions may result in product damage, property damage, or personal injury.

- Always disconnect the motorcycle's battery before performing any electrical work.
- Ensure the engine is cool before working on the cooling system.
- Wear appropriate personal protective equipment, including gloves and eye protection.
- If you are unsure about any part of the installation process, consult a qualified mechanic.

## 3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- Digital Fan Assembly
- Temperature Sensor
- Wiring Harness
- Mounting Hardware (brackets, zip ties, screws)

- Instruction Manual (this document)

## 4. SETUP AND INSTALLATION

The Trail Tech Digital Fan Kit is designed for straightforward installation without requiring modifications to your motorcycle's fluid lines.

1. **Prepare the Motorcycle:** Ensure the motorcycle is turned off and the engine is cool. Disconnect the negative terminal of the battery.
2. **Locate Radiator:** Identify the radiator on your KTM motorcycle where the fan will be mounted.
3. **Mount the Fan:** Secure the digital fan assembly to the radiator using the provided mounting hardware. Ensure the fan is positioned to draw air through the radiator effectively. Refer to the image below for typical fan placement.



*Image 1: Close-up of the digital fan kit installed on the radiator, with the digital temperature display visible.*

4. **Install Temperature Sensor:** Integrate the temperature sensor into the cooling system. The kit is designed to install without cutting fluid lines, typically by replacing an existing bolt or using a T-fitting (if supplied).
5. **Connect Wiring Harness:** Route the wiring harness from the fan and temperature sensor to the motorcycle's electrical system. Connect the power wires to a switched 12V power source and ground. Ensure all connections are secure and protected from heat and moving parts.
6. **Secure Wiring:** Use zip ties or other fasteners to neatly secure all wiring, preventing it from interfering with other components or becoming damaged.



*Image 2: Side view of the motorcycle showing the fan kit installed, partially obscured by the side panel.*



*Image 3: Full motorcycle view, providing context for the fan kit's location.*

7. **Reconnect Battery:** Once all connections are made and secured, reconnect the motorcycle's battery.

## 5. OPERATING INSTRUCTIONS

The Trail Tech Digital Fan Kit features a programmable set-point switch, allowing you to customize the temperature at which the fan activates.

- **Automatic Operation:** Once installed and powered, the fan will automatically monitor the engine temperature via the electronic sensor.
- **Fan Activation:** When the engine temperature reaches the programmed set-point, the fan will automatically activate to cool the radiator.

- **Temperature Display:** The digital display provides a real-time reading of your engine's temperature.
- **Programming Set-Point:** Refer to the specific instructions included with your digital display unit for details on how to adjust the fan activation temperature. This typically involves navigating a menu on the display.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your digital fan kit.

- **Cleaning:** Periodically inspect the fan blades and radiator fins for dirt, mud, or debris. Clean gently with water and a soft brush. Avoid high-pressure washing directly on the fan motor or electrical connections.
- **Wiring Inspection:** Check all wiring and connections for signs of wear, fraying, or corrosion. Ensure all connections remain secure.
- **Mounting Security:** Verify that the fan assembly and temperature sensor remain securely mounted. Tighten any loose fasteners as needed.
- **Coolant Levels:** Ensure your motorcycle's coolant levels are maintained according to the manufacturer's recommendations.

## 7. TROUBLESHOOTING

If you encounter issues with your digital fan kit, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Fan does not turn on.	No power, faulty wiring, sensor issue, or temperature not reached.	Check power connections and fuses. Verify sensor connection. Ensure engine temperature exceeds set-point.
Fan runs continuously.	Sensor issue, incorrect set-point, or constant power.	Check sensor connection. Adjust set-point if too low. Ensure fan is connected to a switched power source.
Inaccurate temperature reading.	Sensor not properly installed or faulty.	Verify sensor installation and connection. Replace sensor if faulty.
Excessive noise from fan.	Debris in fan blades, loose mounting, or worn bearings.	Clean fan blades. Check mounting for security. If noise persists, fan motor may need replacement.

## 8. SPECIFICATIONS

Feature	Specification
Product Dimensions	8.5"L x 3.5"W x 8"H
Brand	Trail Tech
Power Connector Type	Standard Connector
Voltage	12 Volts
Wattage	30 watts

Feature	Specification
Cooling Method	Air
Compatible Devices	Transmission Coolers (Note: Primary application is engine cooling)
Manufacturer	Trail Tech
Number of Items	1

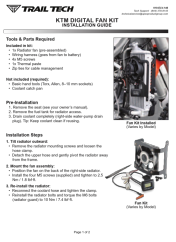

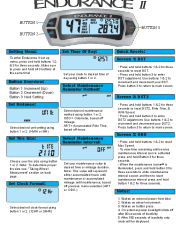
## 9. WARRANTY AND SUPPORT

Trail Tech products are manufactured to high standards. For warranty information, product support, or to purchase replacement parts, please visit the official Trail Tech website or contact their customer service department.

**Online Support:** [www.trailtech.net/support](http://www.trailtech.net/support) (Example Link)

**Contact Information:** Refer to the Trail Tech website for the most current contact details.

## Related Documents - 732-FN3

 <p>Trail Tech KTM Digital Fan Kit Installation Guide - Model 010-ELV-146</p>	<p><a href="#">Trail Tech KTM Digital Fan Kit Installation Guide - Model 010-ELV-146</a></p> <p>Step-by-step installation guide for the Trail Tech KTM Digital Fan Kit (Model 010-ELV-146). Includes tools required, pre-installation steps, mounting instructions, wiring, and setup for the temperature display.</p>
 <p>Trail Tech Stator and Regulator/Rectifier Installation for Yamaha WR450F &amp; WR250F</p>	<p><a href="#">Trail Tech Stator and Regulator/Rectifier Installation for Yamaha WR450F &amp; WR250F</a></p> <p>Detailed installation guide for the Trail Tech Stator and Regulator/Rectifier kit on Yamaha WR450F and WR250F motorcycles, covering stator, ignition jumper, and regulator/rectifier installation for DC conversion.</p>
 <p>Trail Tech Endurance II Bike Computer: Installation and Setup Guide</p>	<p><a href="#">Trail Tech Endurance II Bike Computer: Installation and Setup Guide</a></p> <p>Detailed installation and setup guide for the Trail Tech Endurance II bike computer. Covers sensor mounting, wheel measurement, power wiring, and device configuration for motorcycles and ATVs.</p>



### [Trail Tech Adventure Headset User Manual: Mesh & Bluetooth Intercom Guide](#)

Comprehensive user manual for the Trail Tech Adventure Headset, covering features, installation, operation, MESH and Bluetooth intercom, music sharing, and maintenance. Learn how to use your headset for motorcycle communication.



### [Trail Tech Battery Conversion Installation Guide for Honda CRF450R/CRF250R](#)

Step-by-step installation guide for the Trail Tech battery conversion kit on Honda 2009-2016 CRF450R and 2010-2017 CRF250R motorcycles. Includes Reg/Rec, harness, and battery installation.



### [Trail Tech Voyager Pro Quick-Start Guide](#)

A quick-start guide for the Trail Tech Voyager Pro, covering mounting, vehicle sensors, power connection, user manual access, main screens, enabling screens, MicroSD card slot, GPX files, buddy tracking, Bluetooth, warning indicators, and mounting options.