Daytona Twin Tec 3008

Daytona Twin Tec TC88 Ignition Kit 3008 User Manual

Model: 3008 | Brand: Daytona Twin Tec

1. INTRODUCTION AND OVERVIEW

The Daytona Twin Tec TC88 Ignition Kit 3008 is designed to enhance the performance of carbureted Twin Cam and Sportster models equipped with a 2-pin ignition module. This kit offers advanced ignition control features for a wide range of engine modifications.
Key features include:

- Wide timing advance adjustment range to accommodate various engine configurations.
- Digitally adjustable RPM limit in 100 RPM increments.
- Selectable multi-spark mode for improved starting and smoother cruising.
- Coil outputs are protected against short circuits for enhanced durability.
- Optional USB interface and software for custom advance curve programming and data logging.
- Billet aluminum housing with a black anodized finish.
- Designed for easy plug-in installation.
- Compatibility with all sensors, including theft/security modules.

2. PRODUCT COMPONENTS

The TC88 Ignition Kit 3008 includes the following main components:

- TC88 Ignition Module
- Ignition Coil (Model 2008)
- Wire Set (Model 3002)
- PC Link USB Cable (TCFI-C)

Figure 2.1: Main components of the TC88 Ignition Kit. This image displays the primary components of the TC88 ignition module, a high-performance ignition coil, and a set of spark plug wires. The ignition module features adjustment dials for timing and RPM limit settings.

3. SETUP AND INSTALLATION

Installation of the TC88 Ignition Kit is designed to be a straightforward plug-in process. It is compatible with 99-03 Twin Cam and Sportster models that utilize a 2-pin ignition module. Ensure the motorcycle's ignition system is turned off and the battery is disconnected before beginning installation.

3.1 Pre-Installation Checks

- Verify that the kit is compatible with your specific motorcycle model and year.
- Ensure all components listed in Section 2 are present and undamaged.
- Review your motorcycle's service manual for specific instructions regarding ignition system access and removal.
- **Important:** Check your respective state and local regulations to confirm noise and emission compliance before installation. This item may not be shippable to California addresses due to state regulations.

3.2 Installation Steps

1. Locate and carefully remove the existing ignition module and coil from your motorcycle.
2. Install the new Daytona Twin Tec ignition coil (Model 2008) in the designated location.
3. Connect the provided wire set (Model 3002) to the new ignition coil and spark plugs.
4. Connect the TC88 Ignition Module to the motorcycle's wiring harness. The design supports all original sensors, including theft/security modules.
5. Secure all connections and ensure wiring is routed safely away from moving parts or heat sources.
6. Reconnect the battery and proceed to initial setup.

4. OPERATING INSTRUCTIONS

The TC88 Ignition Module allows for precise adjustment of ignition timing and RPM limits to optimize engine performance. Adjustments are made via the dials on the module, or through optional software with the USB interface.

4.1 Basic Adjustments (On-Module)

Refer to the labels on the ignition module (visible in Figure 2.1) for the following adjustment dials:

- **MODE:** Selects the operating mode or timing curve. Consult the detailed product manual for specific mode definitions.
- **INITIAL ADVANCE:** Adjusts the initial timing advance.
- **SELECT TIMING:** Allows selection of different timing curves.
- **SLOPE:** Modifies the rate at which timing advances.
- **RPM LIMIT (x100, x1000):** Sets the maximum engine RPM. The two dials allow for precise setting in 100 RPM steps.

Start with recommended settings for your engine configuration and make small, incremental adjustments, observing engine behavior. Incorrect settings can lead to engine damage.

4.2 Advanced Programming (Optional)

For advanced users, an optional USB interface (Part No. 382-810) and dedicated software allow for programming custom advance curves and downloading built-in data logging information. This provides granular control over ignition timing and allows for fine-tuning for highly modified engines.
The selectable multi-spark mode contributes to quicker starting and a smoother engine operation during cruising. This feature is automatically engaged based on engine conditions.

5. MAINTENANCE

The Daytona Twin Tec TC88 Ignition Kit is designed for durability and minimal maintenance. Regular inspection of the system is recommended to ensure optimal performance and longevity.

- **Wiring Inspection:** Periodically check all wiring connections for tightness and signs of wear, fraying, or corrosion. Ensure wires are securely fastened and not exposed to excessive heat or abrasion.
- **Module and Coil Condition:** Inspect the ignition module and coil for any physical damage, cracks, or signs of overheating. The billet aluminum housing provides robust protection.
- **Spark Plugs:** Ensure spark plugs are in good condition and correctly gapped according to your motorcycle's specifications. Worn or fouled spark plugs can affect ignition performance.
- **Cleanliness:** Keep the ignition module and coil free from excessive dirt, oil, and moisture.

6. TROUBLESHOOTING

This section provides general guidance for common issues. For complex problems, it is recommended to consult a qualified motorcycle technician or contact Daytona Twin Tec support.

6.1 Common Issues and Solutions

Problem	Possible Cause	Solution
Engine Cranks but Does Not Start	Incorrect wiring, faulty spark plugs, incorrect timing settings, no power to module.	Check all wiring connections. Inspect spark plugs. Verify timing settings on the module. Ensure battery is charged and connections are secure.

Problem	Possible Cause	Solution
Rough Idling or Poor Performance	Suboptimal timing or RPM limit settings, fouled spark plugs, other engine issues.	Adjust timing and RPM limit settings incrementally. Inspect and replace spark plugs if necessary. Consult a mechanic for other engine diagnostics.
Engine Misfires	Faulty spark plug wires, coil issue, incorrect timing.	Inspect spark plug wires for damage. Check coil connections. Review timing settings.

7. SPECIFICATIONS

Feature	Detail
Brand	Daytona Twin Tec
Model Number	3008
Item Model Number	1005
Vehicle Service Type	Motorcycle (99-03 Twin Cam and Sportster models with 2-pin ignition module)
Installation Type	Plug In
Item Weight	3 Pounds (approximately)
Product Dimensions (L x W x H)	9.8 x 8.5 x 5 inches (approximately)
Connector Gender	Male
Housing Material	Billet Aluminum (black anodized finish)
RPM Limit Adjustment	Digital, 100 RPM steps
Timing Advance	Wide adjustment range
Coil Protection	Protected against short circuits

8. WARRANTY AND SUPPORT

For specific warranty information regarding the Daytona Twin Tec TC88 Ignition Kit 3008, please refer to the documentation included with your purchase or contact Daytona Twin Tec directly. Warranty terms typically cover manufacturing defects for a specified period from the date of purchase.

For technical support, installation assistance, or troubleshooting beyond the scope of this manual, please contact Daytona Twin Tec customer service. Their official website or product packaging should provide contact details.

Manufacturer: Daytona Twin Tec

Documents - Daytona Twin Tec – 3008

no relevant documents