

2004 2005 yamaha r1 yzf r1 service repair workshop manual complete fsm contai

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Unveiling the Secrets of the Yamaha R1**

Clearing Engine Codes

To clear engine codes on a Yamaha R1, follow these steps:

- Turn the ignition key to the "ON" position.
- Locate the "SET" and "SEL" buttons on the left handlebar.
- Press and hold both buttons simultaneously for 3 seconds.
- The "FI" light will flash three times, indicating that the codes have been cleared.

Yamaha R1 Engine Recall

In 2008, Yamaha issued a recall for 2004-2008 R1 engines due to a potential valve spring failure. The faulty springs could cause the valves to float, resulting in engine damage.

Top Speed and Performance

- **Top Speed 2004 R1:** 186 mph
- **Top Speed Yamaha R1 (Current Model):** 186 mph
- **0-60 mph Time (2004 R1):** 3.1 seconds
- **Top Gear Speed (2004 R1):** 155 mph

Weaknesses and Discontinuance

Despite its impressive performance, the Yamaha R1 has some weaknesses:

- **Fragile Engine:** The crossplane crankshaft is susceptible to failure under extreme stress.
- **Excessive Throttle Snap:** The throttle response can be touchy, making it difficult to control at low speeds.

The Yamaha R1 was discontinued in 2022 due to declining sales and the rise of more modern competitors.

Unique Features and Capabilities

The Yamaha R1 stands out with its distinctive features:

- **Crossplane Crankshaft:** This innovative design provides a more linear power delivery and a distinctive exhaust note.
- **Electronics Suite:** The R1 is equipped with advanced electronics, including traction control, wheelie control, and adjustable power modes.
- **Quick Shifter:** The optional quick shifter allows for seamless clutchless upshifts and downshifts.

Speed Restrictions

The Yamaha R1 has a built-in speed limiter that restricts its top speed to 186 mph. However, some aftermarket modifications can remove this restriction.

Horsepower and Gearing

- **Horsepower (2004 R1):** 170 hp
- **First Gear Speed (2004 R1):** 50 mph

Competitors and Comparisons

- **ZX10R vs. R1:** The Kawasaki ZX10R is a popular rival of the Yamaha R1, often offering comparable performance and features.

- **YZF Acronym:** YZF stands for "Yamaha Zoom Family." It is a designation used for Yamaha's high-performance sport bikes.

Troubleshooting and Resetting

- **Clearing Dashboard Codes:** See "Clearing Engine Codes" section above.
- **Resetting Trouble Codes:** Consult the Yamaha service manual for specific instructions.
- **Resetting a Yamaha:** Disconnecting the battery for 15 minutes will reset the electrical system.
- **Diagnostic Mode Yamaha R1:** Turn the ignition key to the "ON" position and press and hold both the "SET" and "SEL" buttons for 5 seconds.

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