

Futaba GYD550

Futaba GYD550 Drift Car Gyro User Manual

Model: GYD550 | Brand: Futaba

1. OVERVIEW

The Futaba GYD550 is an advanced drift car gyro system designed to provide precise control and stability for RC drift vehicles. It incorporates sophisticated features to optimize handling and drift performance, allowing for fine-tuning of vehicle dynamics.



An image showing the Futaba GYD550 Drift Car Gyro module. The module is black with silver accents, featuring the 'GYD550' model name in red and 'Futaba' in white. It has connection pins visible on top, with labels 'Rx', 'Gn', and 'Sx' indicating input/output ports.

Key features include a 'damper' function to suppress hunting when gyro sensitivity is high, and a 'tail slide speed' control for managing the desired drift angle. These functions enable superior machine control for dynamic attitude changes. Additionally, the GYD550 supports wireless tuning, allowing for immediate data adjustments to adapt to changing track conditions.

2. WHAT'S IN THE BOX

Upon opening the package, please verify that all components are present:

- Futaba GYD550 Drift Car Gyro Unit
- Two Servo Extensions
- One Adjuster Tool
- Mounting Hardware

3. SETUP

Proper installation and connection are crucial for optimal performance of your GYD550 gyro. Follow these general steps:

1. **Mounting:** Securely mount the GYD550 unit in your drift car chassis using the provided mounting hardware. Ensure it is placed on a flat, stable surface, away from excessive vibrations or heat sources.
2. **Connections:** Connect the gyro to your receiver and steering servo using the provided servo extensions. Refer to your RC system's manual for specific port assignments (e.g., Rx, Gn, Sx as indicated on the gyro unit).
3. **Initial Calibration:** Power on your RC system (transmitter first, then receiver/gyro). The gyro may perform an initial self-calibration. Ensure the vehicle remains still during this process.
4. **Transmitter Setup:** Configure your transmitter's gyro settings according to the GYD550's specifications. This typically involves setting up a channel for gyro gain adjustment.

4. OPERATING INSTRUCTIONS

The GYD550 offers advanced tuning capabilities to fine-tune your drift car's performance:

- **Gyro Sensitivity (Gain):** Adjust the overall gyro sensitivity via your transmitter. Higher sensitivity provides more aggressive steering correction, while lower sensitivity allows for more driver input.
- **Damper Function:** This feature helps to suppress unwanted oscillations or 'hunting' that can occur at high gyro sensitivity settings. Adjust the damper setting to achieve smooth and stable steering response without overcorrection.
- **Tail Slide Speed:** Control the speed at which the rear of the car slides during a drift. This allows for precise management of the drift angle and entry/exit dynamics. Experiment with this setting to match your driving style and track conditions.
- **Wireless Tuning:** The GYD550 supports wireless tuning, enabling real-time adjustments to parameters without physically connecting to the gyro. This function is typically accessed through compatible Futaba transmitters (e.g., 7PXR, 10PX) and allows for quick optimization during practice or competition.

Always make small, incremental adjustments and test the vehicle's behavior after each change.

5. MAINTENANCE

To ensure the longevity and consistent performance of your Futaba GYD550 gyro, follow these maintenance guidelines:

- **Keep Clean:** Regularly clean the gyro unit with a soft, dry cloth. Avoid using solvents or harsh chemicals.
- **Protect from Elements:** Keep the gyro away from moisture, dust, and extreme temperatures. While designed for RC use, excessive exposure can damage internal components.
- **Check Connections:** Periodically inspect all wiring and connections for signs of wear, fraying, or loose contacts. Secure any loose connections.
- **Avoid Physical Impact:** Protect the gyro from crashes or hard impacts, which can affect its internal sensors and calibration.

6. TROUBLESHOOTING

If you encounter issues with your GYD550 gyro, consider the following common troubleshooting steps:

- **No Gyro Response:**
 - Check all connections between the gyro, receiver, and servo.
 - Ensure the gyro is powered correctly.
 - Verify transmitter settings for gyro gain and channel assignment.
- **Hunting/Oscillation:**
 - Reduce gyro sensitivity (gain) on your transmitter.
 - Adjust the 'damper' function setting on the gyro.
 - Ensure the gyro is securely mounted and free from vibrations.
- **Inconsistent Drift Angle:**
 - Adjust the 'tail slide speed' setting.
 - Check for mechanical issues in the steering linkage or servo.
- **Wireless Tuning Issues:**
 - Ensure your transmitter is compatible with the GYD550's wireless tuning feature.
 - Check for firmware updates for both the gyro and transmitter.

If problems persist, consult the official Futaba support resources or contact their customer service.

7. SPECIFICATIONS



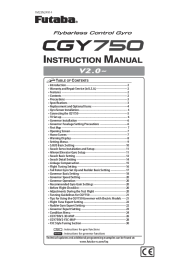

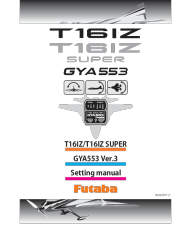

| Attribute | Value |
|--------------------|-------------------------|
| Model Number | GYD550 |
| Manufacturer | Futaba |
| Product Dimensions | 3.25 x 2.5 x 1.5 inches |
| Item Weight | 1.76 ounces |

8. WARRANTY AND SUPPORT

For warranty information and technical support regarding your Futaba GYD550 Drift Car Gyro, please refer to the documentation included with your product or visit the official Futaba website. Warranty terms and conditions may vary by region and purchase date.

It is recommended to register your product, if applicable, to receive updates and support notifications.

Related Documents - GYD550

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|---|--|
|  | <p>Futaba GYD470 RC Drift Car Gyro: Instruction Manual & Setup Guide</p> <p>Comprehensive instruction manual for the Futaba GYD470 Rate Gyro for RC Drift Cars. Learn about features, setup, connections, adjustments, AVCS/NORMAL modes, and S.BUS compatibility for enhanced steering control.</p> |
|  | <p>Futaba GYA440 Rate Gyro for Airplanes: Installation and Operation Manual</p> <p>Comprehensive guide to installing and operating the Futaba GYA440 Rate Gyro for airplanes, covering setup, connections, modes, and flight adjustments for both elevator and rudder control.</p> |
|  | <p>Futaba CGY750 V2 3-Axis Gyro and Governor Manual</p> <p>Comprehensive user manual for the Futaba CGY750 V2, detailing setup, features, and operation of its 3-axis gyro and head speed governor for RC helicopters.</p> |
|  | <p>Futaba CGY760R & GPB-1: Flybarless Helicopter Gyro & Governor Instruction Manual</p> <p>Comprehensive instruction manual for the Futaba CGY760R flybarless control gyro and GPB-1 gyro program box. Learn about setup, features, and operation for advanced RC helicopter stabilization and head speed governing.</p> |
|  | <p>Futaba T16IZ/T16IZ SUPER GYA553 Ver.3 Setting Manual</p> <p>This setting manual provides detailed instructions for configuring the Futaba GYA553 airplane gyro system with the T16IZ/T16IZ SUPER transmitter. Learn how to connect, set up, and optimize your gyro settings for various aircraft configurations.</p> |
|  | <p>Futaba GYA553 Setting Manual for T16IZ/T16IZ SUPER</p> <p>This manual provides detailed instructions for setting up the Futaba GYA553 airplane gyro with the T16IZ and T16IZ SUPER radio transmitters, covering connection, data transfer, configuration options, and SBUS basic settings.</p> |