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> [YOKOMO DP-302 V4 Steering Gyro Instruction Manual](#)

Yokomo DPP-302V4

YOKOMO DP-302 V4 Steering Gyro Instruction Manual

Model: DPP-302V4

1. INTRODUCTION

The Yokomo DP-302 V4 Drift Steering Gyro is an advanced steering stabilization system designed for remote-controlled drift vehicles. It features newly developed circuitry, 4 selectable modes, and a high-performance semiconductor chipset to provide precise control and eliminate undesired steering shake. This system is suitable for a wide range of users, from beginners to experienced competitors, offering enhanced control across various surfaces.



Figure 1: The Yokomo DP-302 V4 Steering Gyro unit. This image displays the compact design of the gyro, highlighting its connectors and adjustment points.

2. SETUP

Proper installation and initial setup are crucial for optimal performance of your DP-302 V4 Steering Gyro. Follow these steps carefully:

1. **Mounting the Gyro:** Securely mount the gyro unit to the chassis of your RC vehicle using double-sided

tape or screws, ensuring it is positioned as close to the center of gravity as possible. The gyro should be mounted flat and level.

2. **Connecting to Receiver:** Connect the gyro's signal cable to the steering channel (typically Channel 1) of your RC receiver.
3. **Connecting to Steering Servo:** Connect your steering servo's signal cable to the designated servo output port on the gyro unit.
4. **Power Connection:** Ensure your receiver and servo are powered correctly through your ESC or a separate BEC. The gyro draws power from the receiver.
5. **Initial Centering:** With your transmitter and receiver powered on, ensure the steering trim on your transmitter is centered. The servo should be at its neutral position.

3. OPERATING INSTRUCTIONS

The DP-302 V4 offers adjustable settings to fine-tune its performance to your driving style and track conditions.

3.1. Gain Adjustment

The gyro gain controls the sensitivity of the gyro's corrective action. This can typically be adjusted via a dial on the gyro unit or through a third channel on your transmitter if supported.

- **Increasing Gain:** Makes the gyro more sensitive, providing stronger steering correction. Too high gain can lead to rapid oscillations (shaking) of the steering.
- **Decreasing Gain:** Makes the gyro less sensitive, resulting in milder correction. Too low gain may not provide sufficient stabilization.

Adjust the gain incrementally until you find a balance between stability and natural steering feel, avoiding any steering wobble.

3.2. Mode Selection

The DP-302 V4 features 4 selectable modes, allowing adaptation to different driving preferences and conditions. Refer to the specific markings or indicators on your gyro unit for mode selection. These modes typically adjust the gyro's response characteristics, such as initial response, damping, and counter-steer assistance.

- Experiment with each mode to understand its effect on your vehicle's handling.
- Start with a moderate gain setting when testing new modes.

4. MAINTENANCE

To ensure the longevity and consistent performance of your Yokomo DP-302 V4 Steering Gyro, observe the following maintenance guidelines:

- **Keep Clean:** Regularly clean the gyro unit with a soft, dry brush or cloth to remove dust and debris. Avoid using liquids or solvents.
- **Check Connections:** Periodically inspect all cable connections for looseness or damage. Secure any loose connections.
- **Avoid Impact:** Protect the gyro from strong impacts, which can damage internal components.
- **Storage:** Store the gyro in a dry, cool environment away from direct sunlight and extreme temperatures.

5. TROUBLESHOOTING

If you encounter issues with your DP-302 V4 Steering Gyro, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Steering servo oscillates rapidly (shakes)	Gyro gain is set too high.	Reduce the gyro gain incrementally until oscillations stop.
No steering correction from gyro	Gyro gain is too low or reversed. Incorrect connection.	Increase gyro gain. Check gyro direction switch. Verify all connections are secure and correct.
Inconsistent steering response	Loose mounting, faulty servo, or interference.	Ensure gyro is securely mounted. Test with a different servo. Check for radio interference.
Gyro not powering on	No power from receiver or faulty connection.	Check receiver power. Verify gyro power connection to receiver.

6. SPECIFICATIONS

Key technical specifications for the Yokomo DP-302 V4 Steering Gyro:

- **Model Number:** DPP-302V4
- **Product Dimensions:** 4 x 4.5 x 0.5 inches
- **Item Weight:** 0.8 ounces
- **Manufacturer:** Yokomo
- **Features:** 4 selectable modes, high-performance semiconductor chipset

7. WARRANTY AND SUPPORT

Specific warranty information for the Yokomo DP-302 V4 Steering Gyro is not provided in this manual. For details regarding warranty coverage, technical support, or service, please contact Yokomo directly or refer to the official Yokomo website. Keep your purchase receipt as proof of purchase.