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> MJX G3 GYRO RC Car Stability System User Manual for Models 14301, 14302, 14303

## MJX G3 GYRO

# MJX G3 GYRO RC Car Stability System User Manual

For Models: 14301, 14302, 14303

## INTRODUCTION

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The MJX G3 GYRO is an advanced stability enhancement system designed to improve the handling and control of your MJX RC car. This device helps to correct unwanted movements, providing a smoother and more predictable driving experience, especially during high-speed maneuvers or on challenging terrains. It is specifically compatible with MJX RC Car models 14301, 14302, and 14303.

Please read this manual thoroughly before installation and operation to ensure proper use and to maximize the performance and longevity of your G3 GYRO.

## SAFETY INFORMATION

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- **Age Restriction:** This product is not suitable for children under 14 years old. Adult supervision is recommended for users under 18.
- **Proper Installation:** Ensure all connections are secure and correctly oriented before operating your RC car. Incorrect wiring can cause damage to the GYRO or other electronic components.
- **Environmental Conditions:** Avoid exposing the GYRO to extreme temperatures, moisture, or direct sunlight.
- **Power Off:** Always disconnect the battery from your RC car before performing any maintenance or installation on the GYRO or other components.
- **Modifications:** Do not attempt to modify the GYRO. Unauthorized modifications can lead to malfunction and void the warranty.

## WHAT'S IN THE BOX

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Upon opening your MJX G3 GYRO package, you should find the following components:

- G3 GYRO Unit
- Pinion (for specific models, if included)

If any items are missing or damaged, please contact MJX customer support immediately.

## SETUP AND INSTALLATION

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Follow these steps to properly install the MJX G3 GYRO into your compatible RC car (models 14301, 14302, 14303).

- 1. Prepare Your RC Car:** Ensure your RC car's power is off and the battery is disconnected. Remove the body shell to access the chassis and electronics.
- 2. Mount the GYRO:** Choose a flat, secure location on the chassis, away from excessive vibration and heat sources. Use double-sided tape (not included, typically) to firmly attach the G3 GYRO. Ensure the GYRO is mounted horizontally and parallel to the chassis centerline for optimal performance.
- 3. Connect to Receiver:**
  - Connect the GYRO's signal cable (usually a single white/yellow wire) to the steering channel (CH1) of your RC receiver.
  - Connect the GYRO's power cable (red/black wires) to an available power port on your receiver or directly to the ESC's BEC output if applicable. Refer to your RC car's receiver manual for specific port assignments.
- 4. Connect Steering Servo:** Disconnect your steering servo from the receiver's CH1 port. Connect the steering servo's cable directly to the designated servo output port on the G3 GYRO.
- 5. Initial Power-Up and Calibration:**
  - Reconnect the RC car battery and turn on your transmitter, then the RC car.
  - The GYRO will perform an initial self-calibration. Do not move the car during this process. The LED indicator on the GYRO will typically flash during calibration and become solid once complete.
  - Test steering response. Ensure the steering moves correctly with transmitter input.



Image: The MJX G3 GYRO unit, showing its compact design, wiring harnesses for connection to the receiver and steering servo, and the gain adjustment knob. This unit is essential for enhancing RC car stability.

## OPERATING THE G3 GYRO

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The G3 GYRO is designed to operate automatically once installed. Its primary function is to detect unwanted chassis movements and apply counter-steering corrections to maintain stability. The effectiveness of these corrections can be adjusted.

### Gain Adjustment

The G3 GYRO features a gain adjustment knob, allowing you to fine-tune the sensitivity of the GYRO's corrections. This knob is usually located on the top or side of the GYRO unit.

- **Increasing Gain:** Turning the knob clockwise (or to a higher setting) increases the GYRO's sensitivity. This results in more aggressive and quicker corrections, which can be beneficial for high-speed driving or drifting. However, too much gain can lead to an unstable, twitchy, or oscillating steering response.
- **Decreasing Gain:** Turning the knob counter-clockwise (or to a lower setting) reduces the GYRO's sensitivity. This provides more natural steering feel but offers less assistance in maintaining stability.

**Recommendation:** Start with a moderate gain setting and test your RC car's handling. Gradually adjust the gain in small increments until you find a balance that provides optimal stability without making the steering feel artificial or unstable. Different driving surfaces and speeds may require different gain settings.

## MAINTENANCE

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The MJX G3 GYRO is a robust electronic component, but proper care ensures its longevity and consistent performance.

- **Keep Clean:** Regularly inspect the GYRO for dirt, dust, or debris. Use a soft, dry brush or compressed air to gently clean the unit. Avoid using liquids or solvents.
- **Check Connections:** Periodically verify that all wiring connections to the receiver and servo are secure and free from damage. Loose connections can lead to intermittent performance or complete failure.
- **Environmental Protection:** While the GYRO may have some resistance to dust, it is not fully waterproof. Protect it from direct water exposure and excessive humidity.
- **Physical Inspection:** Check the GYRO for any signs of physical damage, such as cracks in the casing or bent pins. If damage is found, consider replacing the unit.

## TROUBLESHOOTING

If you encounter issues with your MJX G3 GYRO, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
GYRO LED not lighting up / No power	Loose power connection; Faulty receiver power; Damaged GYRO.	Check all power connections. Ensure receiver is powered. Test with another power source if possible. If still no power, GYRO may be faulty.
Steering is erratic or twitchy	Gain setting too high; GYRO not mounted securely; Interference.	Reduce the gain setting gradually. Ensure GYRO is firmly mounted. Check for sources of electrical interference.
No steering response or incorrect direction	Incorrect wiring; Servo not connected to GYRO; GYRO not calibrated.	Verify all wiring connections according to the setup instructions. Ensure the servo is plugged into the GYRO's output. Re-power the car to initiate calibration.
Car drifts or pulls to one side	GYRO not centered; Trim settings incorrect; Mechanical issue.	Ensure the GYRO is mounted straight. Adjust steering trim on your transmitter. Check for mechanical issues in the steering linkage.

If these steps do not resolve your issue, please contact MJX customer support for further assistance.

## SPECIFICATIONS

- **Item Number:** G3
- **Product Dimensions:** 0.2 x 0.1 x 0.2 inches (approximately)
- **Item Weight:** 1.6 ounces (approximately)
- **Manufacturer Recommended Age:** 14 years and up
- **Manufacturer:** MJX
- **Compatibility:** MJX RC Car Models 14301, 14302, 14303

## WARRANTY AND SUPPORT

MJX products are manufactured to high-quality standards. For specific warranty details, including coverage and duration, please refer to the warranty information provided with your original RC car purchase or visit the official MJX website. For technical support, troubleshooting assistance beyond this manual, or inquiries about spare parts, please contact MJX customer service. You can often find contact information and additional resources on the [MJX Brand Store on Amazon](#) or their official website.

