MJX G3C

MJX G3C GYRO Instruction Manual

For RC Car Model 14211



Image: The MJX G3C GYRO unit, a compact black box with a gain adjustment knob, LED indicator, and three-wire servo connectors.

Introduction

This manual provides essential instructions for the proper installation, operation, and maintenance of your MJX G3C GYRO. The G3C GYRO is designed to enhance the stability and control of your RC car, particularly for model 14211, by automatically correcting steering inputs to maintain a straight line or controlled drift.

Safety Information

- This product is not suitable for children under 3 years old due to small parts.
- Always disconnect the battery from your RC car before performing any installation or maintenance.
- Ensure all connections are secure to prevent short circuits or damage to the GYRO or receiver.
- Operate your RC car in open areas, away from people, pets, and obstacles.

What's in the Box

- 1 x MJX G3C GYRO unit

Setup and Installation

Follow these steps to correctly install the MJX G3C GYRO into your RC car:

1. **Mounting the GYRO:** Choose a flat, secure location on your RC car chassis, preferably near the center, to mount the G3C GYRO. Use double-sided foam tape (not included) to absorb vibrations and firmly attach the GYRO. Ensure the GYRO is mounted horizontally and parallel to the chassis centerline.
2. **Connecting to the Receiver:**
    - Disconnect the steering servo from your RC receiver's steering channel (typically Channel 1).
    - Connect the GYRO's input wire (usually marked 'IN' or with a single white/yellow signal wire) to the steering channel of your receiver.
    - Connect the GYRO's output wire (usually marked 'OUT' or with a single white/yellow signal wire) to your steering servo.
    - If your receiver has an auxiliary channel (e.g., Channel 3 or 4) and your transmitter supports it, you can connect the GYRO's gain adjustment wire (if present, often a single wire) to this channel to adjust gain remotely. Otherwise, gain will be adjusted directly on the GYRO unit.
3. **Initial Calibration:**
    - With the GYRO connected and the RC car powered on, ensure the steering trim on your transmitter is centered.
    - The GYRO will typically perform a self-calibration upon power-up. Do not move the car during this process. The LED indicator will usually flash during calibration and become solid once complete.
    - Test the steering: Turn the steering wheel on your transmitter. The wheels of the RC car should turn in the corresponding direction.
    - Test GYRO direction: Lift the front of the car and quickly move the chassis left and right. The steering servo should automatically counter-steer to correct the movement. If it steers in the same direction as the movement, the GYRO direction needs to be reversed. This is usually done via a switch on the GYRO or a setting on your transmitter if connected to an auxiliary channel.

Operating the GYRO

Once installed and calibrated, the G3C GYRO operates automatically. The primary adjustment you will make is the gain setting.

- **Gain Adjustment:** The G3C GYRO features a rotary knob, typically labeled 'GAIN', allowing adjustment from 0% to 100%.
    - **Lower Gain (0-50%):** Provides less assistance, allowing for more driver input and potentially more aggressive driving or drifting.
    - **Higher Gain (50-100%):** Provides more assistance, making the car more stable and easier to control, especially at high speeds or on loose surfaces. Too high gain can lead to oscillation or 'wobbling' of the steering.
    - Adjust the gain incrementally and test the car's behavior. Start with a moderate setting (e.g., 50%) and adjust up or down based on your driving style and track conditions.

- **LED Indicator:** The LED provides status information.
  - **Solid LED:** Indicates the GYRO is powered on and functioning correctly.
  - **Flashing LED:** May indicate calibration in progress or an error state. Refer to troubleshooting if it continues to flash after power-up.

Maintenance

Proper maintenance ensures the longevity and performance of your G3C GYRO:

- **Keep Clean:** Regularly inspect the GYRO for dust, dirt, or debris. Use a soft, dry brush or compressed air to clean it.
- **Check Connections:** Periodically verify that all wires are securely connected to the receiver and servo. Loose connections can cause intermittent operation.
- **Avoid Moisture:** The GYRO is not waterproof. Keep it away from water and excessive humidity to prevent damage to internal electronics.
- **Temperature:** Avoid exposing the GYRO to extreme temperatures.

Troubleshooting

Problem	Possible Cause	Solution
GYRO not responding / No steering control	Loose connection, incorrect wiring, no power.	Check all wire connections. Ensure the receiver is powered. Verify correct input/output wiring.
Steering oscillates or 'wobbles'	Gain setting is too high.	Reduce the gain setting using the knob on the GYRO.
GYRO corrects in the wrong direction	GYRO direction is reversed.	Locate the direction switch on the GYRO (if available) and flip it. If not, check your transmitter settings for GYRO direction.
LED is flashing continuously	Calibration error, internal fault.	Power cycle the RC car. Ensure the car is stationary during power-up for calibration. If the issue persists, contact support.

Specifications

- **Item Number:** G3C
- **Product Dimensions:** 0.2 x 0.5 x 0.5 inches
- **Item Weight:** 1.6 ounces
- **Manufacturer:** MJX
- **Recommended Age:** 14 years and up

Warranty and Support

For warranty information or technical support regarding your MJX G3C GYRO, please refer to the official MJX website or contact your retailer. Keep your purchase receipt as proof of purchase.

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Example: How do I reset this device or fix this error?

Details

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