

# INSTRUCTION MANUAL

GC-401 Gyro for RC Cars SK-600068

**SKYRC**

## INTRODUCTION

Thank you for purchasing SkyRC GC-401 Gyro for RC Cars. It is a device using gyro sensor and software algorithm to adjust steering output, providing you with a more stable and controlled driving experience.

## FEATURES

### • Make corrective steering adjustment for RC cars

GC-401 gyro allows you to drive the RC car toward a given direction and taking precision turns at high speeds more manageable, more controllable and more stability.

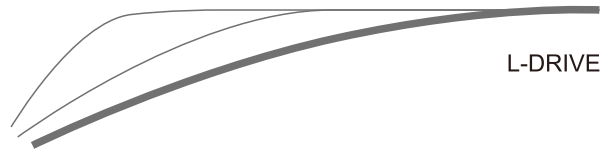
### • Remote gain function

You can adjust gain from the transmitter CH3/CH4 by using the remote gain function. Gain can also be adjusted with the SET button on the GC-401.

### • Integrated, compact, and lightweight

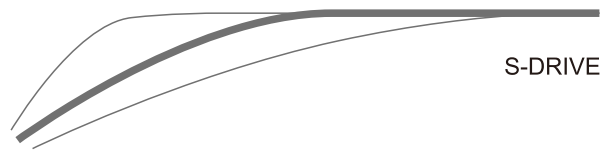
Compact size(21x21x11mm) and lightweight(3.6g) realized by high-density mounting technology.

### • GC-401 has the unique (L) (S) (H) Drive mode of three different sensor curves.



L-DRIVE

**L-DRIVE:** More flexible and good to short distance and curved track.



S-DRIVE

**S-DRIVE:** Standard mode.

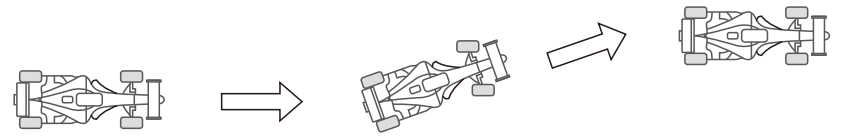


H-DRIVE

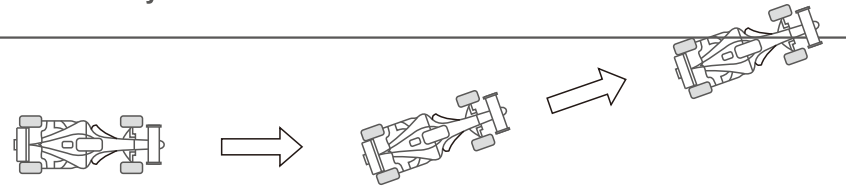
**H-DRIVE:** Gain curve is high. It is suitable for the slipping and long straight distance track.

## GYRO EFFECT (HEADING HOLD)

GC-401 Gyro allows you to drive faster with the confidence of complete maneuver. The Gyro's heading hold effect manages steering output by automatically keeping the car's tires aligned in the direction you chose. It will also precisely maintain car direction regardless of the amount of traction of the track or outside force applied to the car. With heading hold, the car is more maneuverable and controllable.

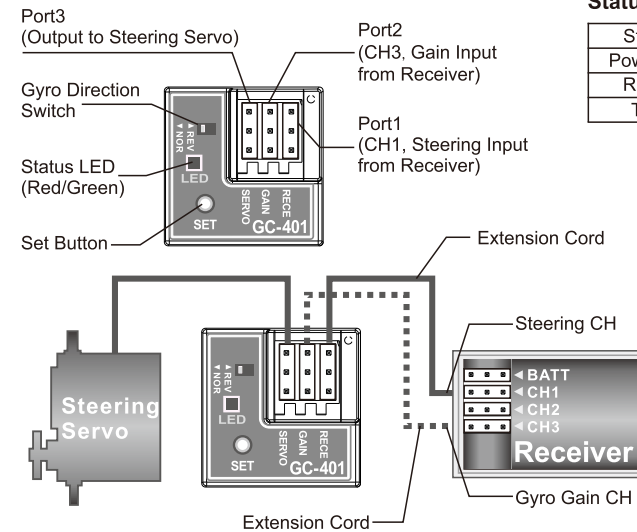


With GC-401 Gyro for RC Car



Without GC-401 Gyro

## CONNECTION



### Status of LED Display

Status	Red LED	Green LED
Power Up	Fast Blink	Fast Blink
Ready	ON	OFF
Turn	ON	Fast Blink

### • Port2 Connect To Receiver

Remote gain effective and SET button can set servo travel.

### • Port2 Not Connect To Receiver

Remote gain not effective and SET button can set GAIN.

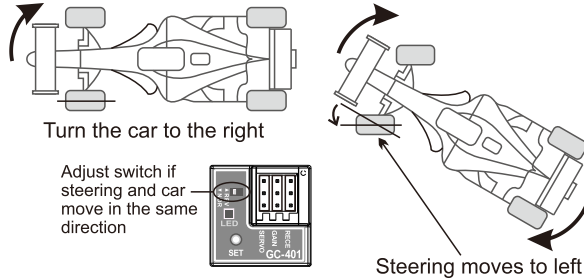
## MOUNTING GYRO IN VEHICLE

Use double-sided sponge tape to mount the gyro in the vehicle (do not use CA glue). The direction of rotation fixed by the gyro can be any direction within 360° relative to the steering axis controlled by the gyro.



## GYRO DIRECTION SWITCH

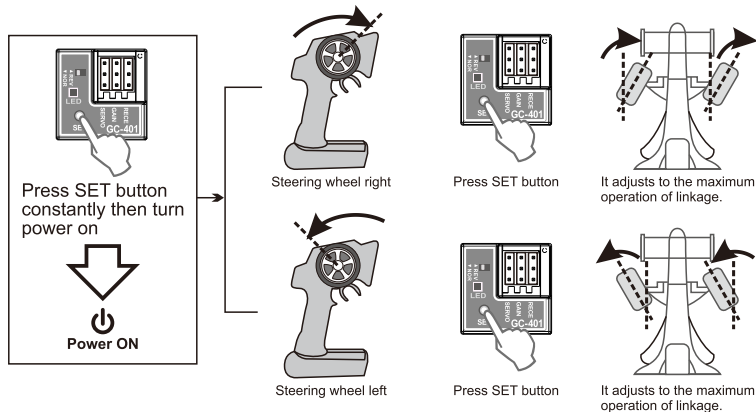
You can use gyro direction switch to adjust gyro operating direction. Turn the car all the way to the right, the steering will move all the way to the left. Be sure to set gyro operating direction correctly or the car will not run.



## SERVO TRAVEL SETTING

When using the transmitter to tune gain, the SET button can set the maximum servo travel. Please turn on the transmitter, press SET button constantly then turn power on. After 1 second, LED blinks green briefly to enter the setting mode. Steer the wheel of the remote control to the left or right to the expected the maximum travel. Hold this position and press the SET button shortly that LED blinks red once and LED blinks green twice indicating that the steering was successful in the respective direction. After the same operation is set to the maximum servo travel of the other side, the Red/Green LEDs blink at the same time, indicating that the maximum servo travel setting is successful and automatically enters the neutral position state.

To cancel the maximum servo travel, press the SET button and turn on again in the power-off state. After 1 second, the green LED will blink green briefly, then release and long press the button for 3 seconds. At this point, the green LED will be steady on and keep blinking in red, indicating servo travel is canceled. After the maximum servo travel setting is dismissed, the Red/Green LEDs will flash at the same time to enter the neutral position state.



## GAIN ADJUSTMENT

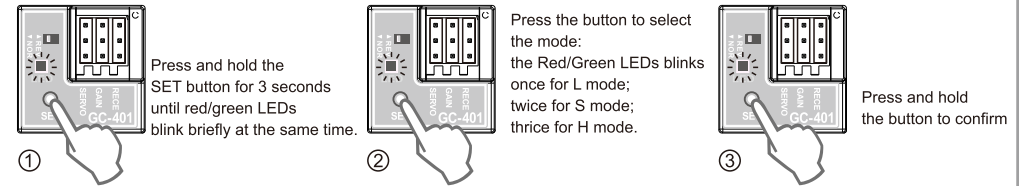
- Turn on your transmitter's power and turn on the receiver. The GC-401 requires 3-5 seconds to initialize when the power is turned on. Do not move the car and do not move the steering wheel during this initialization or the gyro may not initialize properly. Once the initialization process has been completed, the red LED will turn on. You can adjust gain from the transmitter CH3/CH4 by using the remote gain function.
- The SET BUTTON can adjust gain when CH3/CH4 are not connected. Tuning is same as servo travel setting.

## GAIN MODE SELECTION

After setting gain, you can quickly switch to better operational control by selecting different gain modes to deal with various racing scenarios.

After the neutral position capture, long-press the SET button until the Red/Green LEDs blinks briefly and simultaneously to enter the mode selection state.

Press the button to select the mode: the Red/Green LEDs blinks once for L mode; twice for S mode; thrice for H mode. After selecting the desired mode, press and hold the button to confirm. The steady red light after the Red/Green LEDs goes out indicates that the setting is completed.



- ☀ L Mode: More flexible and good to short distance and curved track.
- ☀☀ S Mode: Standard mode
- ☀☀☀ H Mode: Gain curve is high. It is suitable for the slipping and long straight distance track.

## SPECIFICATION

- Gyro Sensor: Vibration Structure Gyro
- Operating Voltage: 4-8.4V
- Current Drain: 25mA
- Operating Temperature Range: -10°C to +45°C
- Dimensions: 21.0 x 21.0 x 11.0mm
- Weight: 3.6g

## WARRANTY AND SERVICE

We guarantee this product to be free of manufacturing and assembly defects for one year from the time of purchase. The warranty only applies to the material or operational defects, which are present at the time of purchase. During that period, we will repair or replace free of service charge for products deemed defective due to those causes.

For any repair or replace service, please contact your dealer in the first instance, who is responsible for processing guarantee claims. This warranty is not valid for any damage or subsequent damage arising as a result of misuse, modification or as a result of failure to observe the procedures outlined in this manual.



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