

4、LED Status

Gyro Indicator (Red) status is as follows:

Gyro Indicator Status	Gyro Status
Rapid Flash	Gyro is in calibration mode
Solid On	Sensitivity is between 1-100%
Off	Sensitivity is 0%

Receiver Status Indicator (Green) status is as follows:

Receiver Indicator Status	Receiver Status
Rapid Flash	Binding mode
Slow Flash	Signal lost / Not connected
Solid On	Normal connection

5、Binding

This receiver supports two-way binding and automatically enters binding mode upon power-up:

- The receiver enters a standby for connection state when powered on, waiting to establish communication with a previously bound transmitter.
- If no connection is established with a bound transmitter within 2 seconds, it automatically enters binding mode. This state lasts for 10 seconds.
- If binding with a transmitter is successful, it enters normal communication mode; otherwise, it exits binding mode and returns to the standby for connection state.

Binding steps are as follows:

1. Put the transmitter into binding mode.
2. Power on the receiver. After waiting 2 seconds without a connection, it will automatically enter binding mode, indicated by the receiver's LED flashing rapidly.
3. Upon successful binding, the receiver's LED will stay solidly lit.
3. Check if both the transmitter and receiver are functioning correctly. To re-bind, please repeat the above steps.

6、Protection Features

This receiver includes low battery capacity and low voltage protection functions.

- When low battery capacity is detected, the CH2 output is reduced by half.
- Low Voltage Protection: When critically low battery voltage is detected, CH2 output is cut off, and all vehicle lights flash slowly as a warning.
- Battery voltage status (High, Medium, Low, Critical) can be transmitted back to the transmitter (for indicating the receiver's battery status on the transmitter).

7、ESC & Motor Introduction

7.1 ESC

The ESC function of this receiver supports two operating modes configurable via the transmitter: Forward/Reverse (with a fixed drag brake force of 50%) and Forward/Reverse/Brake (with a fixed drag brake force of 0%). For detailed information, please refer to the relevant section in the transmitter manual.

7.2 Motor

This receiver is compatible with 030 Brushed Motors. After the motor is connected and the receiver is powered on, it first performs gyro calibration. Upon successful gyro calibration, it then proceeds to calibrate the throttle neutral point (ensure normal communication between the receiver and transmitter is established).

- Once the throttle neutral point is successfully recognized, the motor will emit a single long beep as confirmation.
- If the throttle neutral point is not recognized, the motor will emit a continuous slow beep, and there will be no power output.

8、Gyro Function Introduction

This receiver features a built-in gyro function, which acts solely on the steering channel (CH1) to assist the vehicle in performing drift maneuvers more easily and stably.

8.1 Calibration

Calibrates the gyroscope.

Steps:

Place the receiver on a level surface and then power it on. It will automatically enter gyro calibration mode, indicated by the gyro LED flashing rapidly. Upon successful calibration, the gyro LED will light up steadily.

8.2 Direction Setting

Sets the gyro direction (Normal/Reverse). This ensures the correction force from the gyro opposes the actual swing direction of the vehicle body.

Note: If the paired transmitter cannot switch the direction, the default is Normal.

Step: Move DIP switch 2 on the transmitter to the TOP position for Reverse, or to the BOTTOM position for Normal.

8.3 Sensitivity Adjustment

Sets the gyro sensitivity. The default is 50%.

Step:

Adjust by rotating the G.GAIN knob on the transmitter. Rotate counterclockwise to increase the value, or clockwise to decrease it.

9、Light Control

This receiver can drive four sets of lights: left turn signal, right turn signal, retractable headlights (which can be raised or lowered), and taillights.

The light status is controlled by the corresponding controls on the FS-BM-MG41-BS transmitter. When the receiver enters Low Voltage Protection or Fail-Safe mode, the light status follows the behavior described in the relevant sections.

Refer to the relevant section for details on light status.

9.1 Light Mode

The light modes are divided into 3 modes (only 2 modes when the retractable lights are lowered): Mode 1, Mode 2, and Mode 3.

Note: The system defaults to Mode 1 on each power-on.

9.2 Mode Switching

Mode Switching: Briefly press and hold the CH4 control on the transmitter for 2 seconds to switch modes. The system will cycle through all available modes (3 modes, or 2 modes when retractable lights are lowered).

9.3 Retractable Lights

Linked

The retractable headlights can be set to be linked or unlinked with the other lights.

Setup Steps:

Move DIP switch 4 on the transmitter to the TOP position to set to Unlinked; move it to the BOTTOM position to set to Linked.

Retractable Light Control

The retractable lights can be set to the raised or lowered position.

Move the CH3 control on the transmitter to the left position to lower the retractable lights; move it to the right position to raise them.

Toggle between Unlinked and Linked modes

In Unlinked Mode 1, when linking is enabled and the retractable lights are set to the raised position, the light status will switch from Unlinked Mode 1 to Linked (Raised) Mode 1. If the retractable lights are set to the lowered position, it will switch to Linked (Lowered) Mode 1.

In Unlinked Mode 2, when linking is enabled and the retractable lights are set to the raised position, the light status switches from Unlinked Mode 2 to Linked (Raised) Mode 2. If the retractable lights are set to the lowered position, it switches to Linked (Lowered) Mode 2.

In Unlinked Mode 3, when linking is enabled and the retractable lights are set to the raised position, the light status switches from Unlinked Mode 3 to Linked (Raised) Mode 3. If the retractable lights are set to the lowered position, it switches to Linked (Lowered) Mode 1.

9.4 Light Status

When Lights and Retractable Lights are NOT Linked:

Light	Mode 1	Mode 2	Mode 3
Left Turn Signal	On when turning left (Steering wheel rotated counterclockwise)		Flash slowly in sync; only the corresponding side flashes slowly when turning
Right Turn Signal	On when turning right(Steering wheel rotated clockwise)		
Headlights (Retractable)	Always off	Always on	
Taillights	Bright only during braking/reverse	Bright during braking/reverse, dim otherwise	

When Lights and Retractable Lights are Linked, and Retractable Lights are Raised:

Light	Mode 1	Mode 2	Mode 3
Left Turn Signal	Slow flash when turning left	Flash slowly in sync; only the corresponding side flashes slowly when turning.	Slow flash when turning left
Right Turn Signal	Slow flash when turning right		Slow flash when turning right
Headlights (Retractable)	Always on		Always off
Taillights	Bright during braking/reverse, dim otherwise		Bright only during braking/reverse

When Lights and Retractable Lights are Linked, and Retractable Lights are Lowered:

Light	Mode 1	Mode 2
Left Turn Signal	Slow flash when turning left	Flash slowly in sync; only the corresponding side flashes slowly when turning.
Right Turn Signal	Slow flash when turning right	
Headlights (Retractable)	Always off	
Taillights	Bright only during braking/reverse	

10、Fail-Safe

This function is designed to protect the model and personnel when the receiver loses or fails to properly receive the transmitter's signal. In such a scenario, the receiver will output the pre-set Fail-Safe values on its channels.

- Upon entering Fail-Safe mode, the left and right vehicle lights will flash slowly and simultaneously as a warning indicator.
- CH2 Fail-Safe is enabled by default, triggering the ESC brake mode upon signal loss. CH1 and CH3 channels are not set by default; they will hold their last output when unconfigured. Fail-Safe values for CH1 and CH3 can be set via the transmitter.



bilibili



YouTube



Facebook