

4、Operating Instructions

4.1 Power On

Please follow the steps below to power on:

1. Check the system status to ensure:
 - Ensure the battery is sufficiently charged and correctly installed.
2. Slide the switch to the [ON] position. The R.LED indicator will remain steadily lit.
3. Connect power to the receiver.
 - For the safety of both the model and the operator, always power on the transmitter first, then the receiver.

	WARNING The system is now active. Operate with caution, as improper use may cause product damage or personal injury.
	WARNING For your safety, ensure both the transmitter switch and throttle are in the safe/off position.

4.2 LED Indicators

1. R.LED: Red Power Indicator Light;
2. G.LED: Green Status Indicator Light;
3. Car Battery: ESC Battery Level Indicator (Dual-Color LED, hereinafter referred to as D3)
 - High Battery Level: D3 lights up solid green.
 - Medium Battery Level: D3 lights up solid orange.
 - Low Battery Level: D3 lights up solid red.
 - Battery Depleted/Critical: D3 flashes red slowly.
 - Receiver Signal Lost (No Binding): Both colors of D3 remain off (unlit).

4.3 Binding

The transmitter and receiver are pre-bound at the factory.

If you need to bind to a different transmitter or receiver, please follow the steps below:

1. Power on the transmitter while holding the BIND button to enter binding mode.
The G.LED will flash rapidly.
 - Release the BIND button after entering binding mode.
2. Power on the receiver. If no connection is established within 1 second, it will automatically enter binding mode.
3. Once binding is successful, the indicator lights on both the receiver and transmitter will remain steadily lit.

Note: To begin the binding process, first activate binding mode on the transmitter, then activate it on the receiver.

- This binding procedure applies only to the pairing of the FS-MG41 transmitter and the FS-R4A receiver. Different receivers may have different binding methods. Please visit the FLYSKY official website to consult the receiver's manual or other relevant documentation for specific operating instructions.
- As our products are under continuous development, please visit the FLYSKY official website to check the latest compatibility chart between transmitters and receivers.

4.4 Stick Calibration

This function can be used to calibrate the center position of the steering wheel and throttle trigger.

The transmitter has been factory-calibrated before shipment. If recalibration is required, please follow the steps below.

1. Simultaneously turn the steering wheel fully clockwise and push the throttle trigger completely forward, then power on the transmitter to enter calibration mode.
 - R.LED and G.LED flash alternately.
 - Car Battery Indicator (Dual-Color LED) lights up solid yellow.
2. Steering Calibration: Rotate the steering wheel fully clockwise and then fully counterclockwise to its limits.
 - R.LED turns off
 - Car Battery Indicator (Dual-Color LED) lights up solid red
3. Throttle Calibration: Push the throttle trigger fully forward and then fully backward to its limits.
 - R.LED turns off
 - Car Battery Indicator (Dual-Color LED) lights up solid green
4. Steering wheel and throttle trigger are both successfully calibrated
 - Car Battery Indicator turns off
5. Press the "BIND" button to exit calibration mode and save the new settings.

4.5 Power Off

To power off the system, please follow these steps:

1. Disconnect power to the receiver.
2. Slide the switch to the [OFF] position to power off the transmitter.

	WARNING When powering off, always turn off the receiver first, then turn off the transmitter. Failure to follow this sequence may cause damage to the model or personal injury.
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5、System Features

5.1 Channel Configuration

This transmitter provides a total of 4 output channels, assigned as follows:

- CH1: Steering wheel
- CH2: Throttle trigger
- CH3: 3-position toggle switch (Left position corresponds to a channel value of 1000us. Middle position corresponds to a channel value of 1500us. Right position corresponds to a channel value of 2000us.)
- CH4: Momentary push-button switch, Default state at power-on is LOW (1000us). Each press toggles the channel value between 1000us and 2000us.
Function: Headlight/Taillight mode switching.

5.2 Channel Reverse

Channels CH1, CH2, and CH3 support a reverse function.

The ST.REV and TH.REV switches are used to reverse the output for CH1 and CH2 respectively, while DIP switch position 3 controls the reverse function for CH3. The default setting is normal (non-reversed).

Configuration Steps:

Move the reverse switch to the top position to reverse the servo output, or to the bottom position for normal operation.

5.3 Trim

The ST.D/R and TH.D/R knobs are used to adjust the trim for CH1 and CH2 respectively.

Configuration Steps:

Rotating a knob counterclockwise increases the trim value, with a maximum of 120μs.

Rotating a knob clockwise decreases the trim value, with a minimum of -120μs.

5.4 End Point Adjustment

This function is used to adjust the travel range for all channels.

It can be triggered by operating the control corresponding to the desired channel, after which the travel for that channel can be adjusted using the ST.D/R knob.

CH3 Travel Adjustment

Adjusts the travel for the channel controlled by the CH3 3-position toggle switch.

Function Setup:

1. With the transmitter powered on, quickly press the BIND button twice to enter End Point Adjustment mode. The R.LED and G.LED will flash alternately in a slow pattern to indicate this mode.
2. To set the travel for the first position:
 - Move the CH3 3-position toggle switch to its leftmost position. The RX.BATT indicator will flash rapidly, indicating that the travel for this switch position can now be set.
 - Rotate the ST.D/R knob to the desired value, then briefly press the BIND button to confirm.

The RX.BATT indicator will change to a slow flash, confirming the setting for this position is complete.

3. To set the travel for the second position:

- Move the CH3 3-position toggle switch to the middle position, rotate the ST.D/R knob to the desired value, then briefly press the BIND button to confirm. The RX.BATT indicator will flash slowly, confirming the setting for this position is complete.

4. To set the travel for the third position:

- Move the CH3 3-position toggle switch to its rightmost position, rotate the ST.D/R knob to the desired value, then briefly press the BIND button to confirm. The RX.BATT indicator will turn off, confirming the setting for this position is complete.

5. Press and hold the BIND button for one second to save all settings and exit End Point Adjustment mode. (Settings are also saved by powering the transmitter off and on again.) The R.LED and G.LED will turn off. CH3 End Point Adjustment is now complete.

End Point Adjustment for Other Channels

This adjusts the travel for other channels. Using CH1 as an example, the setup steps are as follows:

1. Refer to the previous description to enter End Point Adjustment mode.

2. Rotate the steering wheel to trigger the adjustment for this channel. The RX.BATT indicator will flash rapidly.

3. Rotate the ST.D/R knob to set the left-side endpoint, then briefly press BIND to confirm. RX.BATT will change to a slow flash.

4. Rotate the ST.D/R knob again to set the right-side endpoint, then briefly press BIND to confirm. The RX.BATT indicator will turn off.

5. Press and hold the BIND button for one second to save the settings and exit the mode. End Point Adjustment for this channel is now complete.

5.5 ESC Parameter Settings

DIP switch position 1 is used to set the ESC (Electronic Speed Controller) operating mode.

Switch in the TOP position: Motor operates in Forward/Reverse/Brake mode.

Switch in the BOTTOM position: Motor operates in Forward/Reverse mode only.
(Default: Forward/Reverse/Brake)

Forward/Reverse/Brake Mode:

When the throttle trigger is pulled back (brake) and then quickly pushed forward, the motor will brake but will not engage reverse. Reverse is only engaged when the throttle trigger returns to the neutral zone and is then pushed into the reverse zone. This mode is suitable for general RC models.

Forward/Reverse Mode: When the throttle trigger is pushed into the reverse zone, the motor immediately engages reverse. This mode is typically used for specific models like crawlers.

Step:

Move DIP switch 1 to the BOTTOM position for Forward/Reverse/Brake mode, or to the TOP position for Forward/Reverse mode only.

5.6 Gyro Function Settings

Steering Sensitivity Adjustment

Sets the gyro sensitivity (gain) value for the receiver, adjustable via the G.GAIN knob. Default is 50%, adjustable range is 0~100%.

Setting Step:

Rotate the G.GAIN knob counterclockwise to increase sensitivity, or clockwise to decrease it.

Gyro Direction Setting

Sets the gyro direction (normal/reverse) for the receiver, controlled by DIP switch position 2. Default is Normal.

Setting Step:

Move DIP switch 2 to the BOTTOM position for Normal direction, or to the TOP position for Reverse direction.