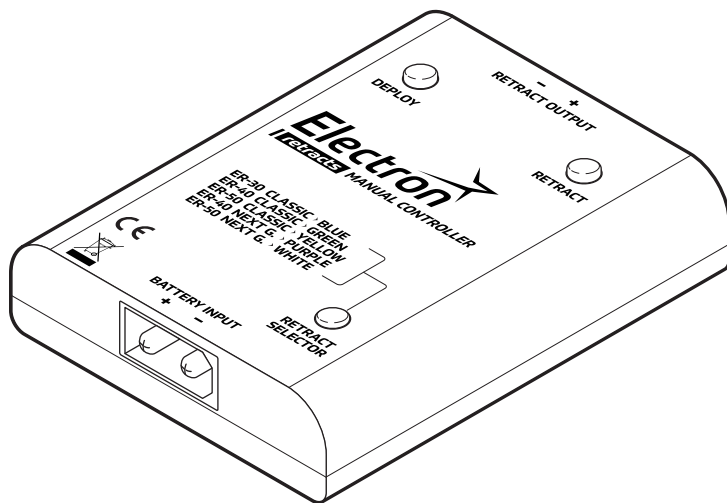




# Manual Controller

USER MANUAL AND INSTALLATION INSTRUCTIONS



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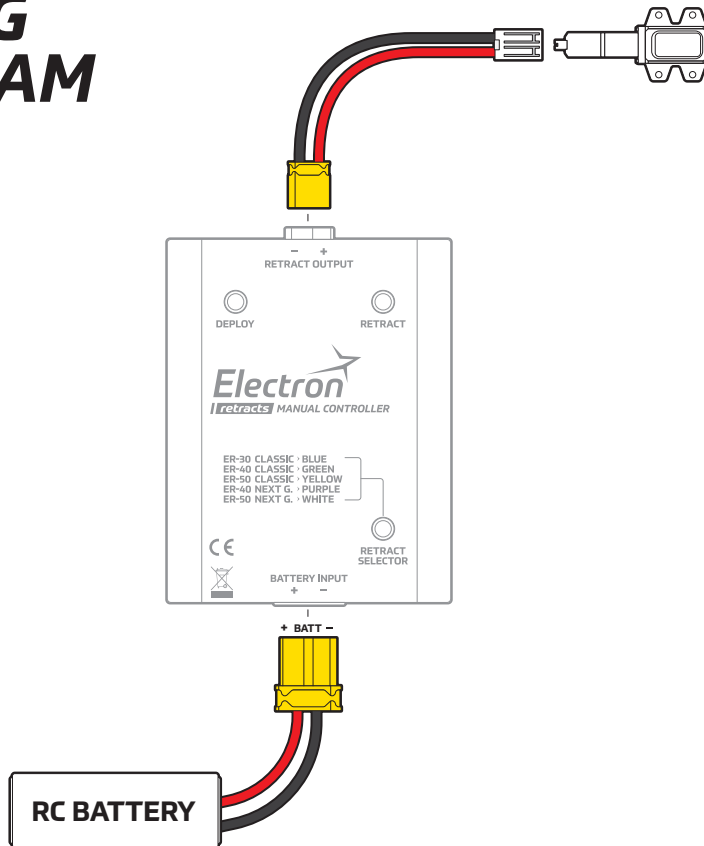
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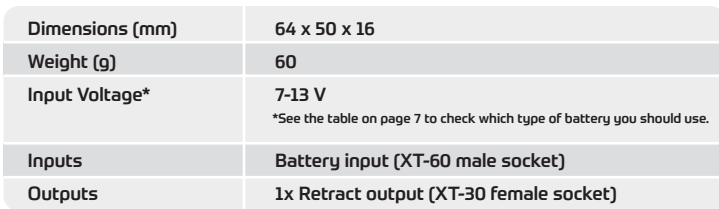
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# WIRING DIAGRAM





The Manual Controller is a handheld device that doesn't need to be placed or oriented in any particular way.

## Power Supply

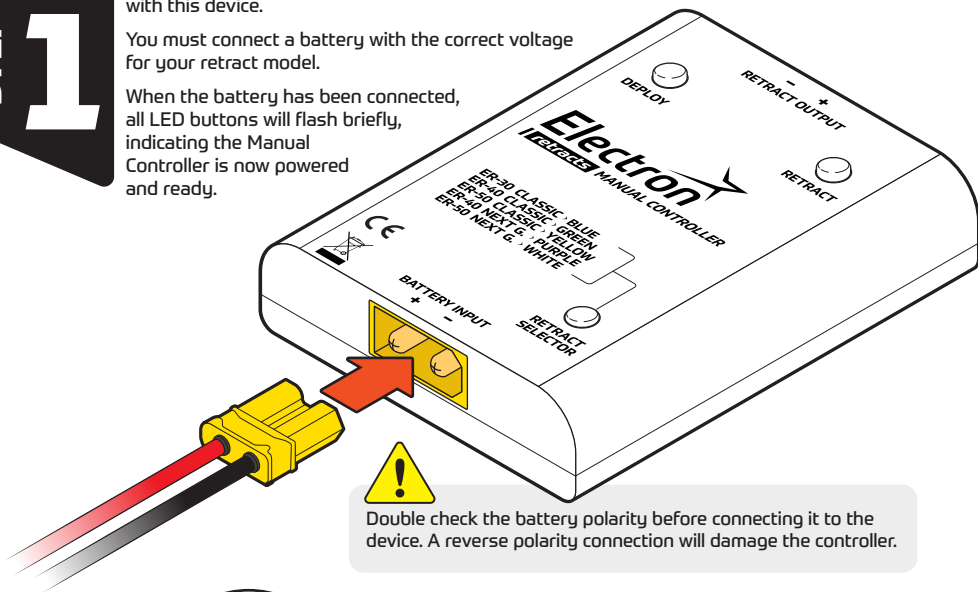
### STEP 1

## CONNECT POWER BATTERY

The Manual Controller features a XT-60 male socket for power input. A compatible female connector for the battery can be provided with this device.

You must connect a battery with the correct voltage for your retract model.

When the battery has been connected, all LED buttons will flash briefly, indicating the Manual Controller is now powered and ready.



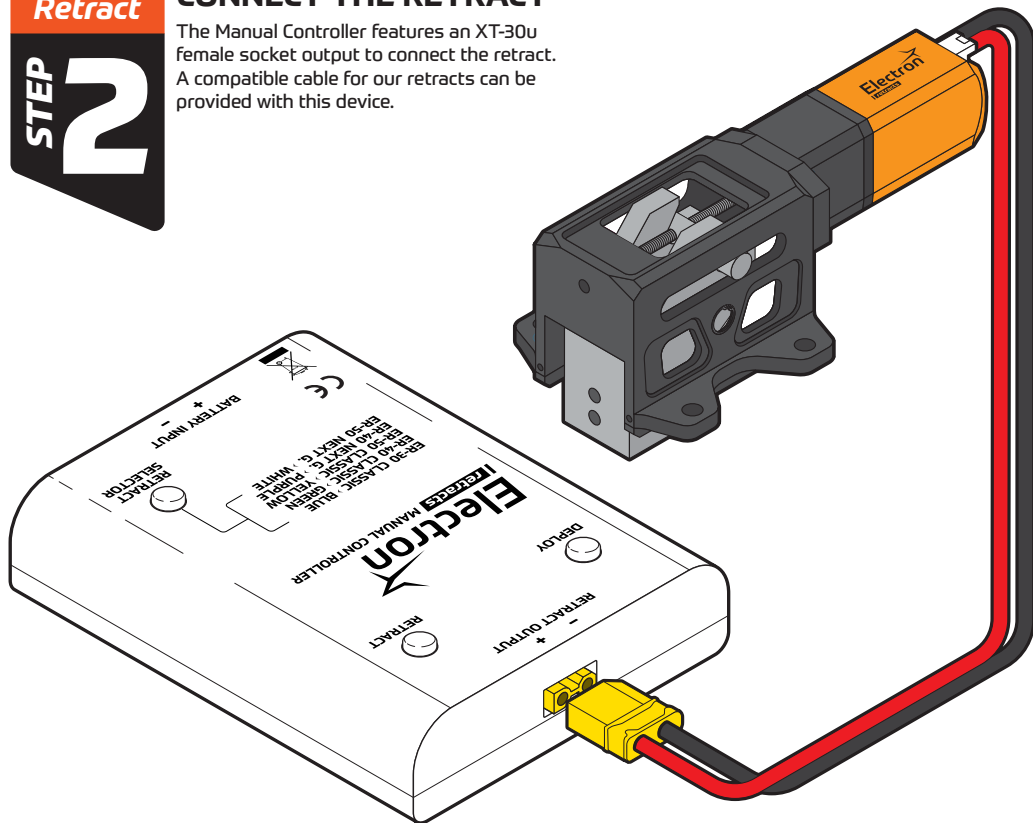
If the battery type connected is not adequate for the retract model selected, the Deploy and Retract LEDs will flash in red. The device will not operate until the correct battery type is connected, or a different retract type is selected. **See the table on page 7 to check which type of battery you should use.**

## Retract

# STEP 2

### CONNECT THE RETRACT

The Manual Controller features an XT-30U female socket output to connect the retract. A compatible cable for our retracts can be provided with this device.



Retract Selection

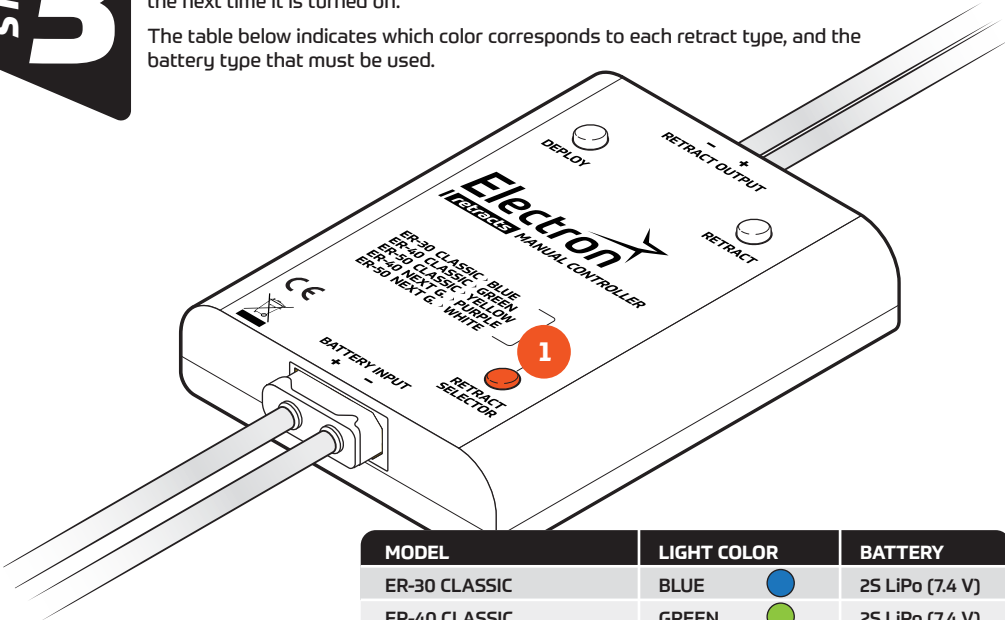
STEP 3

## SELECT YOUR RETRACT MODEL

Before using the Manual Controller, you must select the corresponding retract model. This is required for the retract to operate properly and safely. The selected model is indicated at all times by the color of the Retract Selector LED button.

When turned off, the Manual Controller will remember the last selected retract model the next time it is turned on.

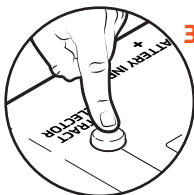
The table below indicates which color corresponds to each retract type, and the battery type that must be used.



| MODEL                 | LIGHT COLOR |                                                                                    | BATTERY          |
|-----------------------|-------------|------------------------------------------------------------------------------------|------------------|
| ER-30 CLASSIC         | BLUE        |   | 2S LiPo (7.4 V)  |
| ER-40 CLASSIC         | GREEN       |   | 2S LiPo (7.4 V)  |
| ER-50 CLASSIC         | YELLOW      |   | 2S LiPo (7.4 V)  |
| ER-40 NEXT GENERATION | PURPLE      |   | 3S LiPo (11.1 V) |
| ER-50 NEXT GENERATION | WHITE       |  | 3S LiPo (11.1 V) |

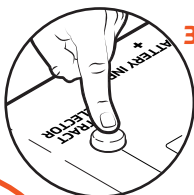
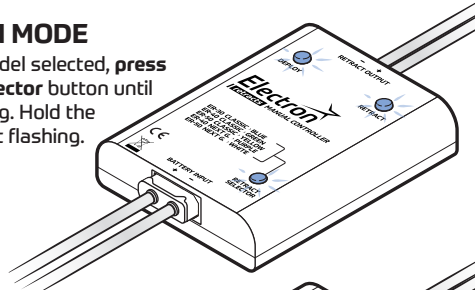
## Retract Selection

### STEP 3



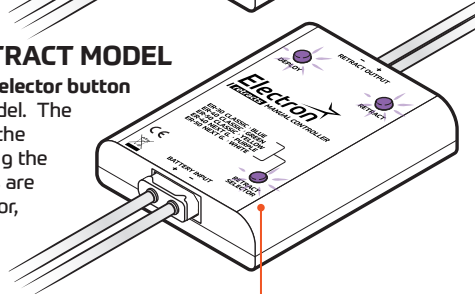
### 3.1 ENTER SELECTION MODE

To change the retract model selected, **press and hold the Retract Selector** button until all 3 buttons start flashing. Hold the button until all LEDs start flashing.

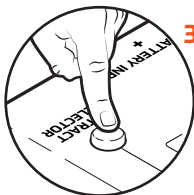
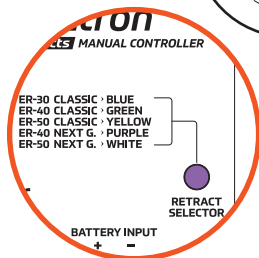


### 3.2 SELECT YOUR RETRACT MODEL

Now, **press the Retract Selector** button to change the retract model. The device will cycle through the available models, changing the light color. Once the LEDs are flashing in the correct color, move to the next step.

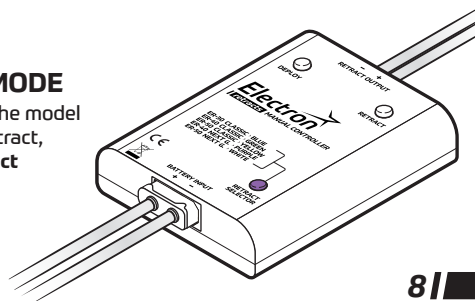


Example: **ER-40 NEXT GENERATION > PURPLE**



### 3.3 EXIT SELECTION MODE

Once you have selected the model corresponding to your retract, **press and hold the Retract Selector** button until the LEDs stop flashing.



## Operation

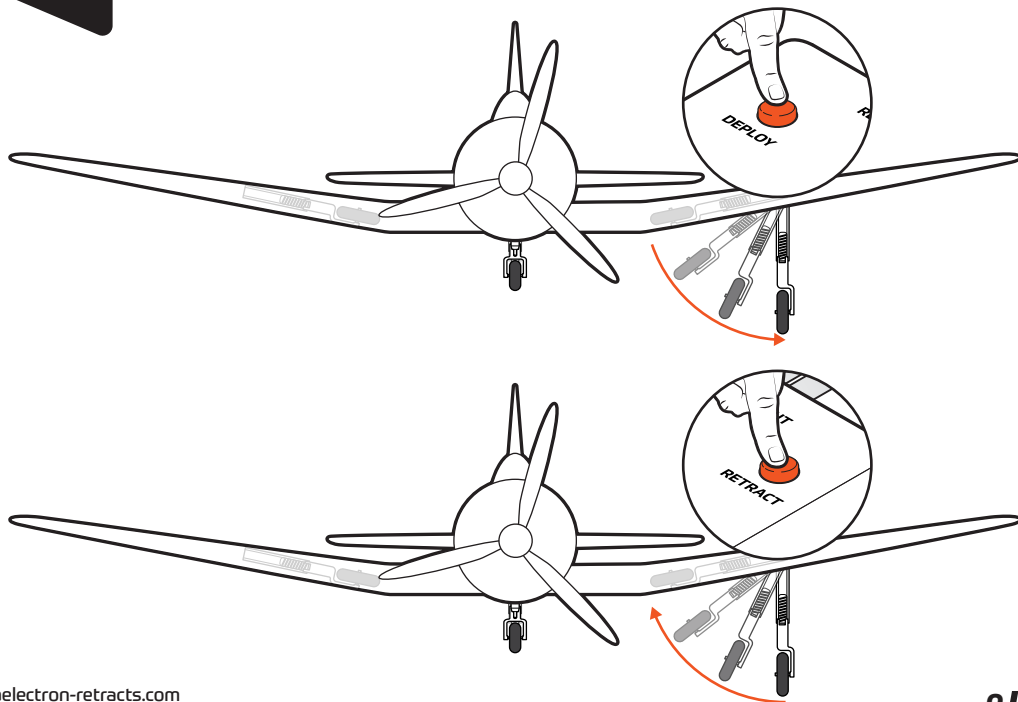
### STEP 4

## HOW TO USE

Once you have properly setup your controller, use the Deploy and Retract buttons to move the landing gear.

The retract will only move as long as you press the button, giving you full control of the landing gear position at all time.

Once the retract has reached its end position, the Manual Controller will automatically cut power to prevent damaging the motors, and release pressure on the spindle head.





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