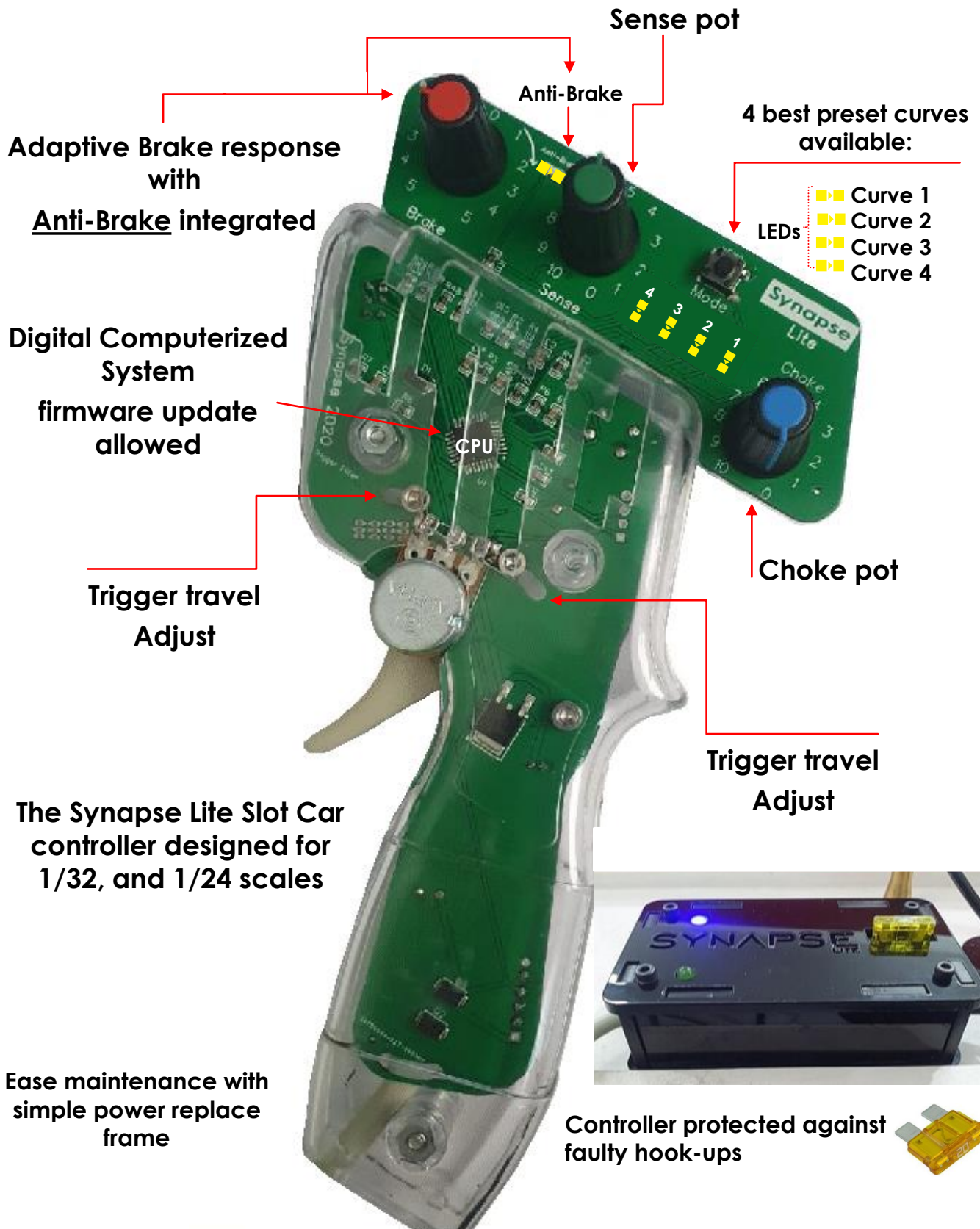


Managed by Digital Computerized System



Synapse Life improved the most significant experience of driving slot cars

Main functions

- Managed by **Digital Computerized System**
- Setup Mode Bottom: 4 best curves choose for your best racings
- Automatic Motor Recognition (1/32 and 1/24 scale) with autonomous feedback adjustment system
- Adaptive Brake response with Anti-Brake integrated
- Sensibility Pot
- Choke Pot
- Trigger travel adjusts – Make your owner adjust
- Compact and very light design
- Simply circuit board with High Tec power frame
- Pad less trigger system for smooth drive experience
- Lowest voltage drop 0.01v
- Controller protected against faulty hook-ups
- Ease maintenance with simple power replace frame

Slot Car controller designed for 1/32 and 1/24 scale

Brake Pot: It sets the amount of the brake the controller will apply to the car when the trigger is released. The brake range is set counterclockwise.

Anti-Brake: This adjustment is used for those cars has so much brake even when the brake is set to zero. This function will reduce this immediate stop. Letting the car stops smoothly. The Anti-Brake range is set clockwise. The led start (" ") when this function is activated.

Sensibility pot

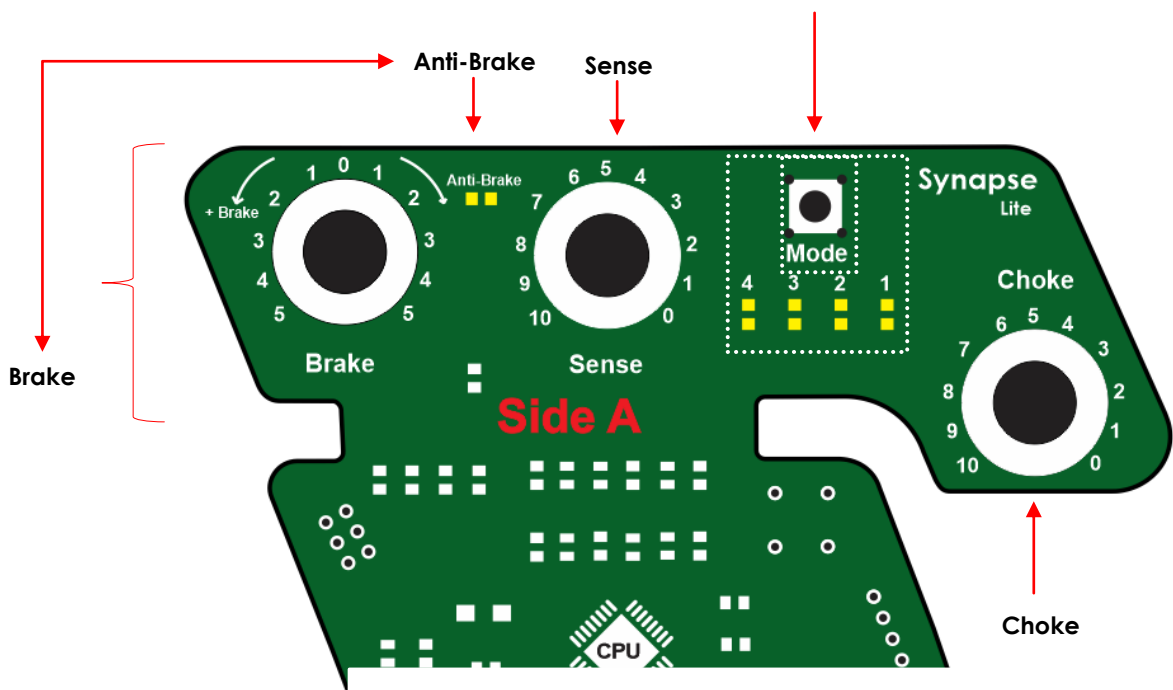
Sensibility pot sets the start speed of the car. This adjustment increase the first acceleration points of the acceleration curve.

Choke pot

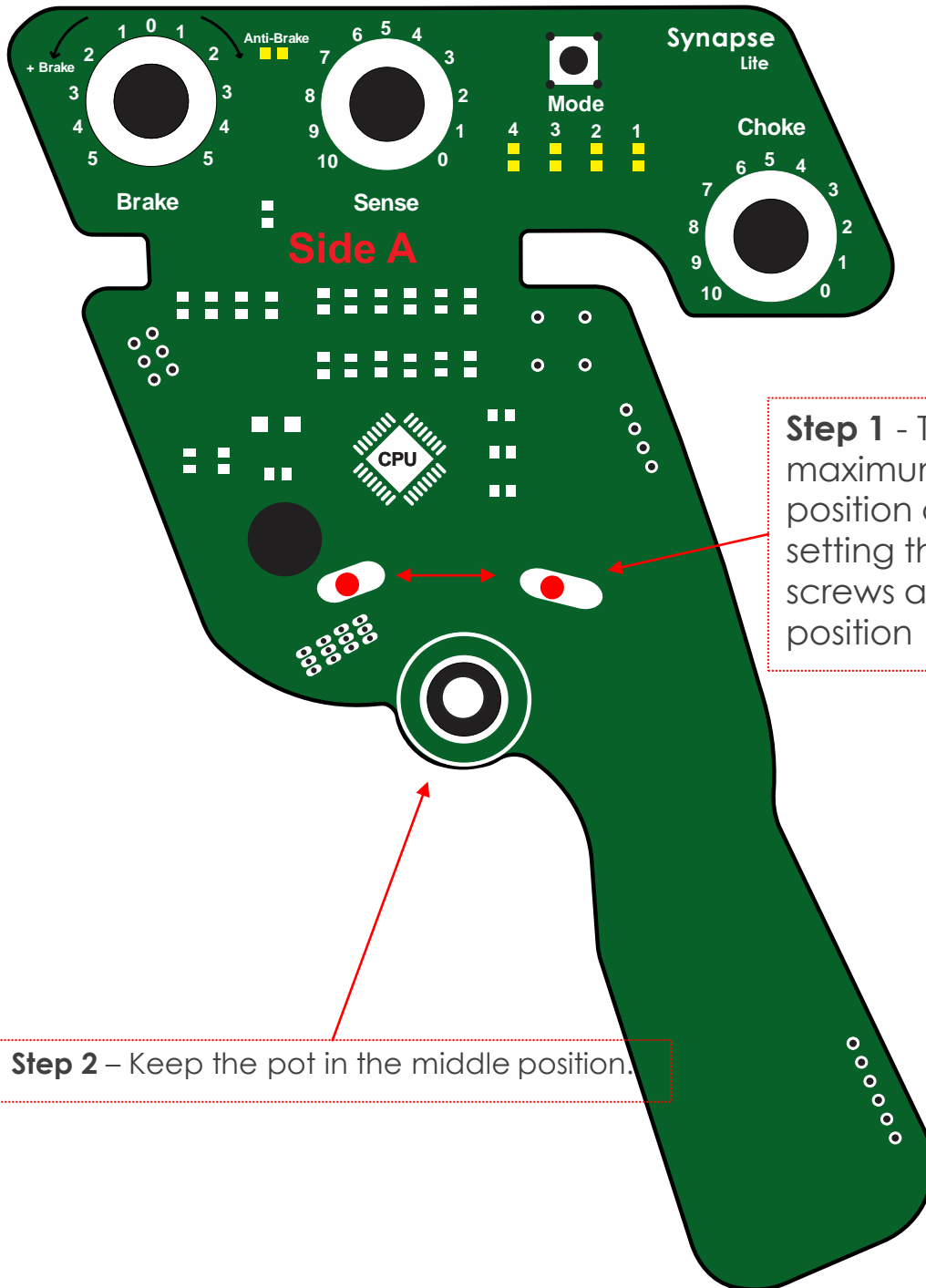
Choke pot reduce the top speed of the car. This function is useful when the car is so aggressive.

Select Curve Mode: The led start (" ") show the curve activated

1 – Curve | 2 – Curve | 3 – Curve | 4 – Curve 4



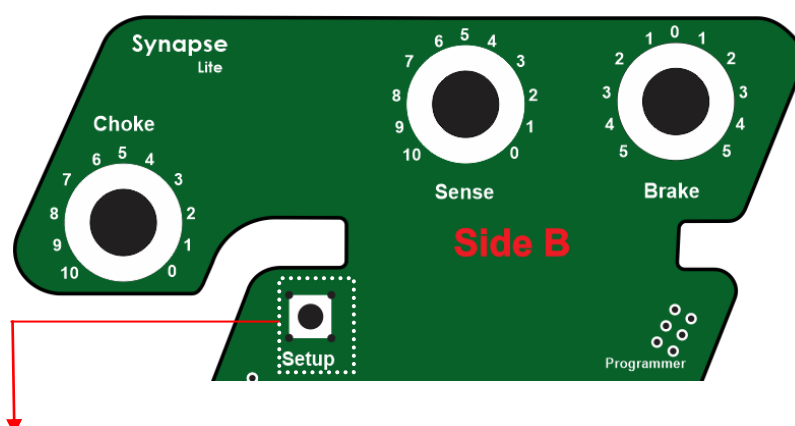
Personalize Trigger travel Adjusts



Step 1 - The trigger maximum and minimum position can be adjusted by setting the (●) stopper screws at the required position

Step 2 – Keep the pot in the middle position.

Step 3 - Please proceed to **Calibration Trigger Setup** in the next page. This adjustment should be done when the stopper screws were moved.

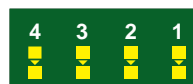


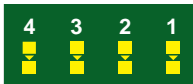

Calibration Setup Bottom

Setup button sets the calibration of the trigger range. This adjustment should be done when the stopper screws were moved.

Press and hold the **Setup button** (Side B) for 3 seconds. The Leds (Side A) will start blinking indicating the controller is at the calibration mode. figure 1

Figure 1



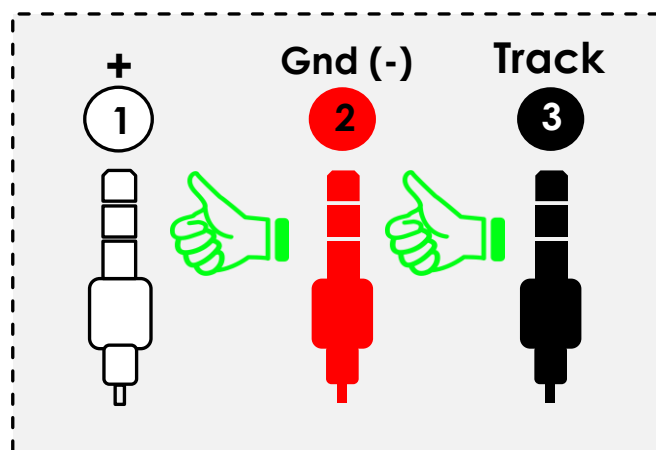
1. After **LED 1** start blinking **alone**. Keep the trigger to released (Initial) position and press setup button.
2. All leds will blink again.
3. The **LED 4** start blinking alone. Set the trigger to **full throttle position** and press setup button.
4. All leds will blink for a second and stops.
 

5. Calibration concluded.

If the leds continue to blink the calibration failed and the process should be repeated.

See Synapse Lite trigger calibration setup in the link: <https://www.youtube.com/watch?v=iGcITRablrk>

WARNING

Note: Positive polarity tracks only

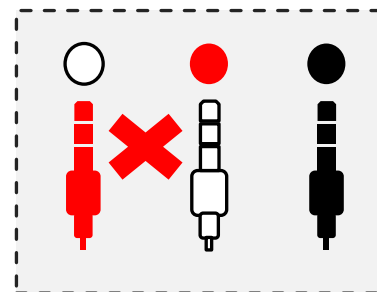
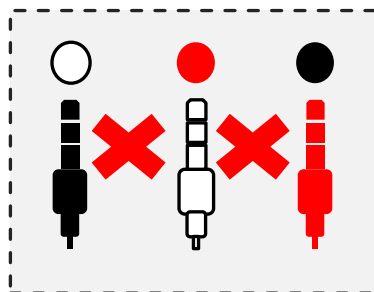
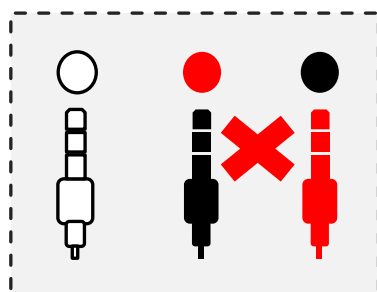


Pay attention! Do NOT connect banana plug in the wrong color GATES

1
+

2
Gnd (-)

3
Track



Note: Any wiring wrong connection “may” cause as follow: the motor to full throttle, nothing happens or even in some cases it may blow the fuse.

Circuit protection by 20A Blade Fuse



NOTE: Synapse is not responsible for unauthorized modification, adjustment and replacement of parts of this product.

Technical specifications regarding Synapse Lite device

- ✓ Worldwide track pin-out: **White(+)** **Red(-)** **Black(track)**;
- ✓ **12v to 16v** input voltage range (minimum and maximum);
- ✓ Fast recovery regulated voltage power supply (track);
- ✓ Maximum HF noise **2vp-p**;
- ✓ 0 to 50 degrees Celsius temperature range;
- ✓ Humidity 10% to 85% noncondensing;
- ✓ Maximum load Drain 20 Amps constant 120 peak;
- ✓ **Track wires** must handle all power drained by motor and controller;



Note: I do not recommend to use Synapse Lite device if the Technical Requirements does not meet all of the specifically expressed.



Handle model available: RedFox

Parma or Koford handles are not available

Enjoy it!!!