

Trixbrix Control and Automation USER MANUAL

Controller operation

- After connecting the power supply to the controller, all peripherals are in the default state
- After pressing the left red button, all peripherals will switch to the opposite state
- Pressing the right red button changes the state of all peripherals again
- LEDs flash during state change
- The controller has 2 modes: for boom barriers and for switches

Switch mode

- The controller starts in the switch mode
- In switch mode the switches have priority over boom barriers and switch first
- Both detector inputs behave in the same way and initiate the state change immediately upon train detection

Boom barrier mode

- To enter boom barrier mode press and hold both red buttons for 2 seconds. The mode change will be confirmed by blinking status light on the controller
- In this mode the boom barriers have the priority over switches
- The detectors work in tandem and the boom barrier change happens when one of the detectors sees a train and afterwards, when the other detector stops seeing the train
- When the barriers are closed the LEDs blink alternately

If during play you notice a malfunction of the controller or its peripherals, disconnect the controller from the power supply immediately!

Make any changes to the system in a non-voltage condition!

NOTE:

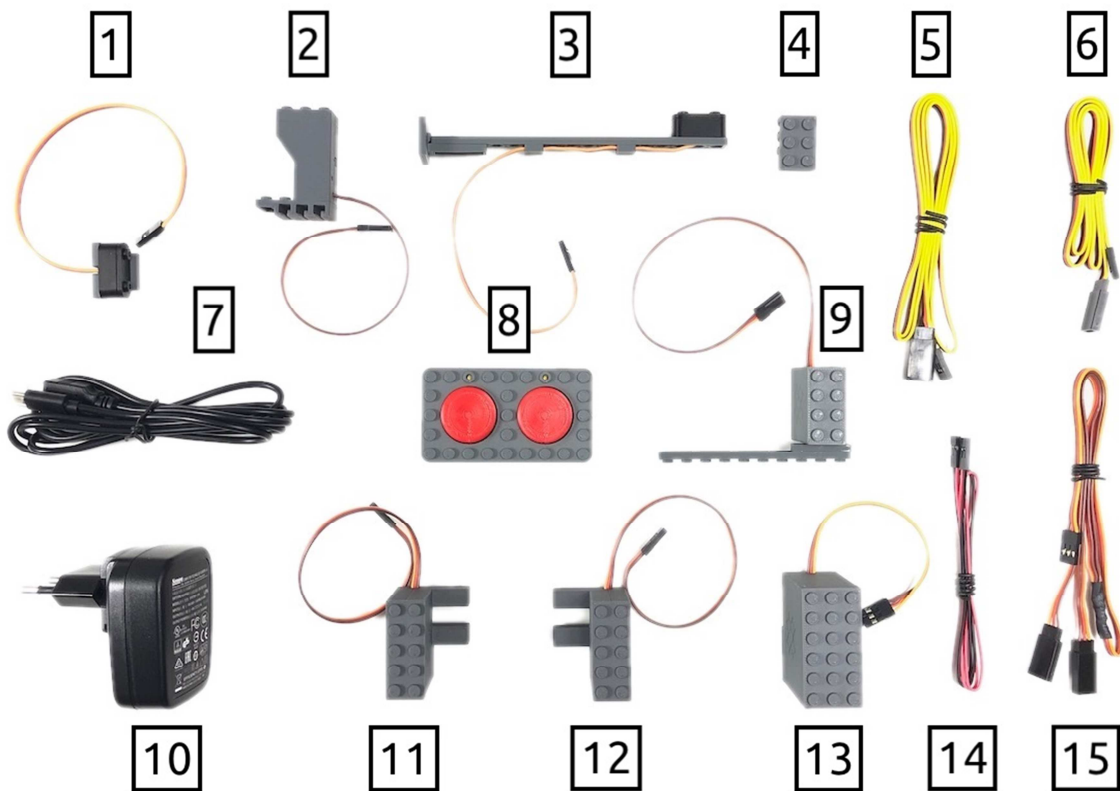
Make any changes to the system in a non-voltage condition!

Visit our Youtube channel, where we have prepared instructions for you in form of short videos. If you have questions regarding the controller operation, or any other topic, drop us an email at brix@trix.pl, we will quickly reply.



The set contains:

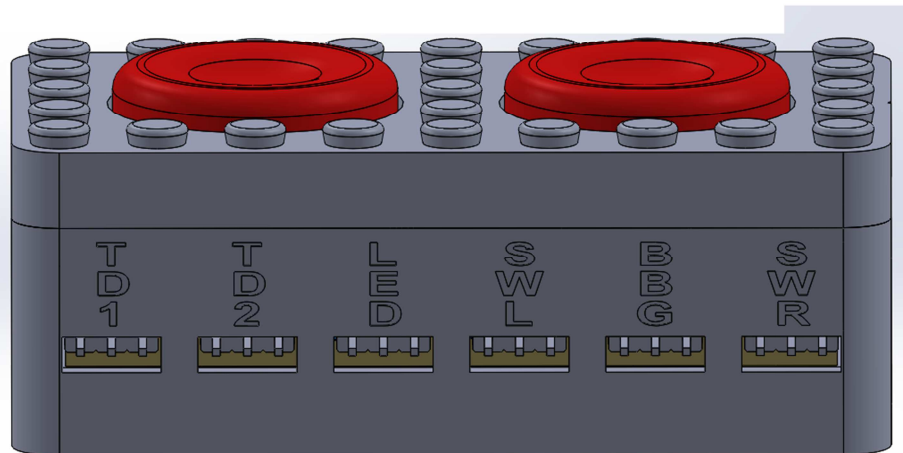
- Boom Barrier LEDs (1)
- Train Detector (2)
- Train Signal Mast with LEDs (3)
- Cable Guide (4)
- Extension cable 90cm (5)
- Extension cable 60cm (6)
- USB cable (7)
- All-In-One Controller (8)
- Boom Barrier (9)
- Power supply (10)
- Left Switch Servo Motor (11)
- Right Switch Servo Motor (12)
- Servo Motor for Original Lego Switches (13)
- Power transfer cable (14)
- Splitter cable (15)



The controller has 9 ports:

On the front:

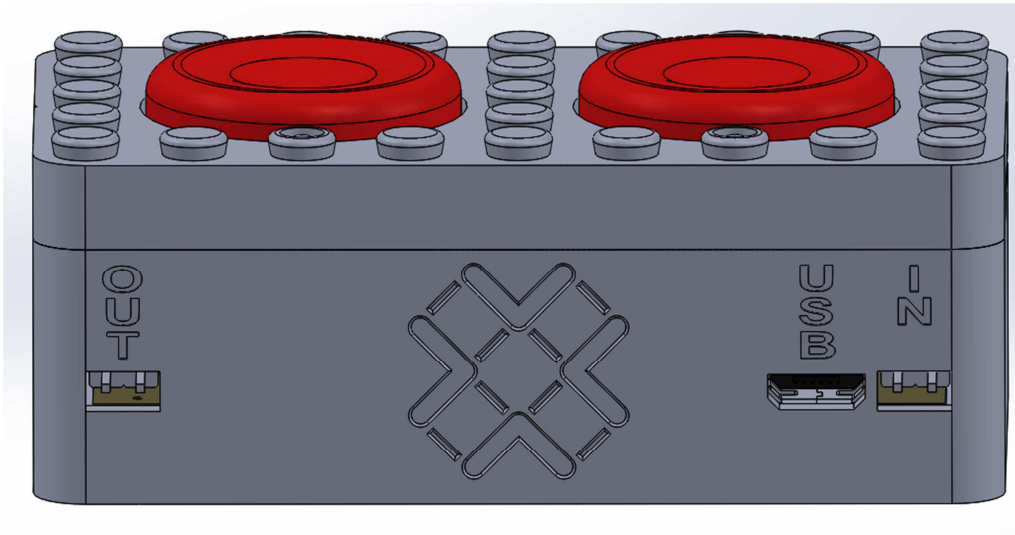
- **LED** - LED traffic lights
- **TD1** - Train Detector 1
- **TD2** - Train Detector 2
- **BBG** - Boom Barrier Gate
- **SW1** - Switch Right Motor
- **SW2** - Switch Left Motor



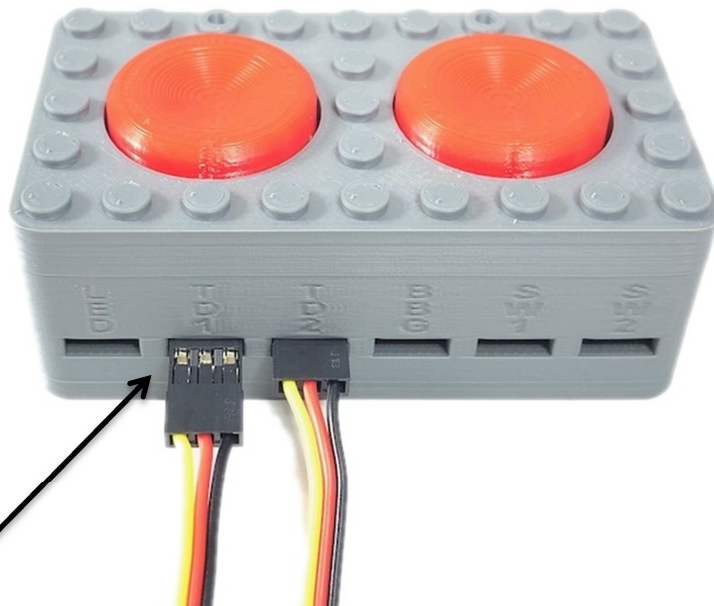
FRONT SIDE OF THE CONTROLLER

On the back:

- OUT - Power output to the next controller (when connecting 2 or more controllers)
- USB - Power Supply
- IN - Power input from the previous controller (when connecting 2 or more controllers)



BACK SIDE OF THE CONTROLLER

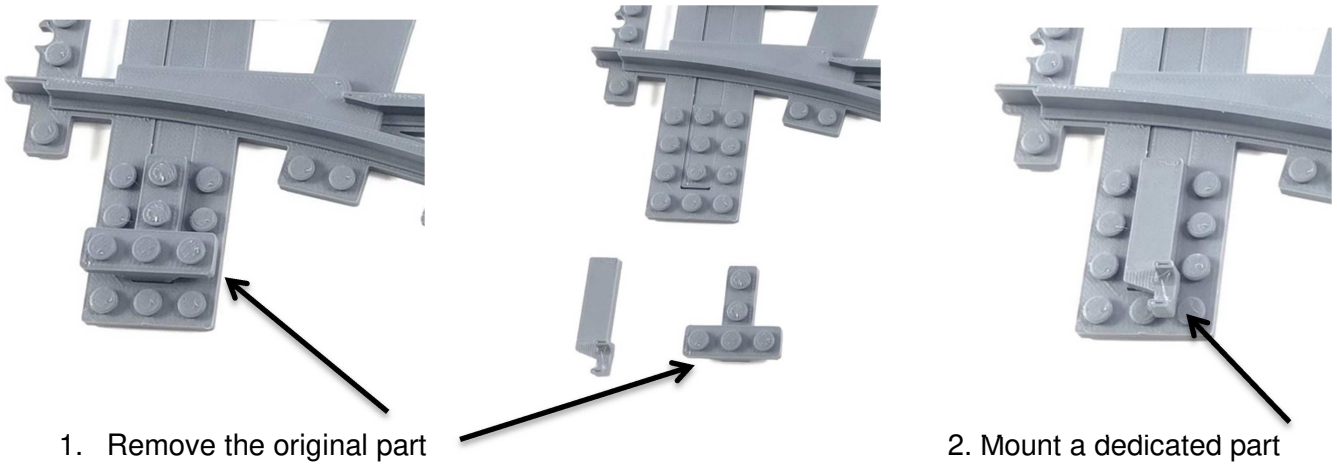


this way UP

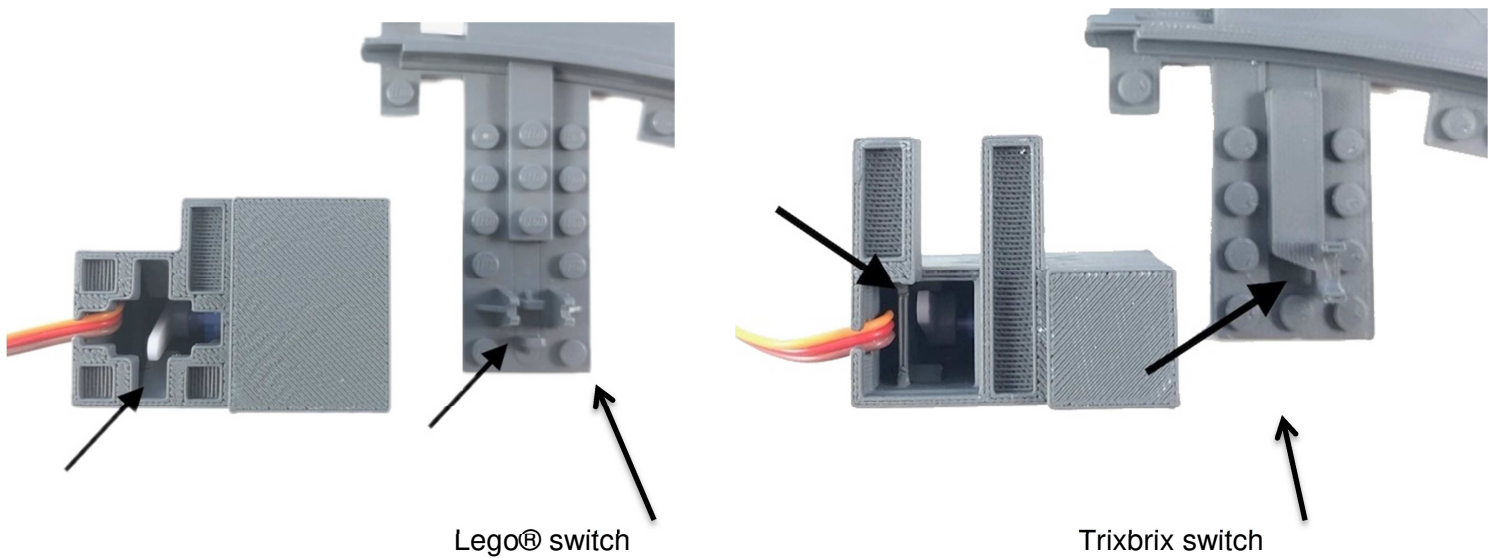
EXAMPLE OF THE CORRECT WIRING

Instructions for connecting the switch:

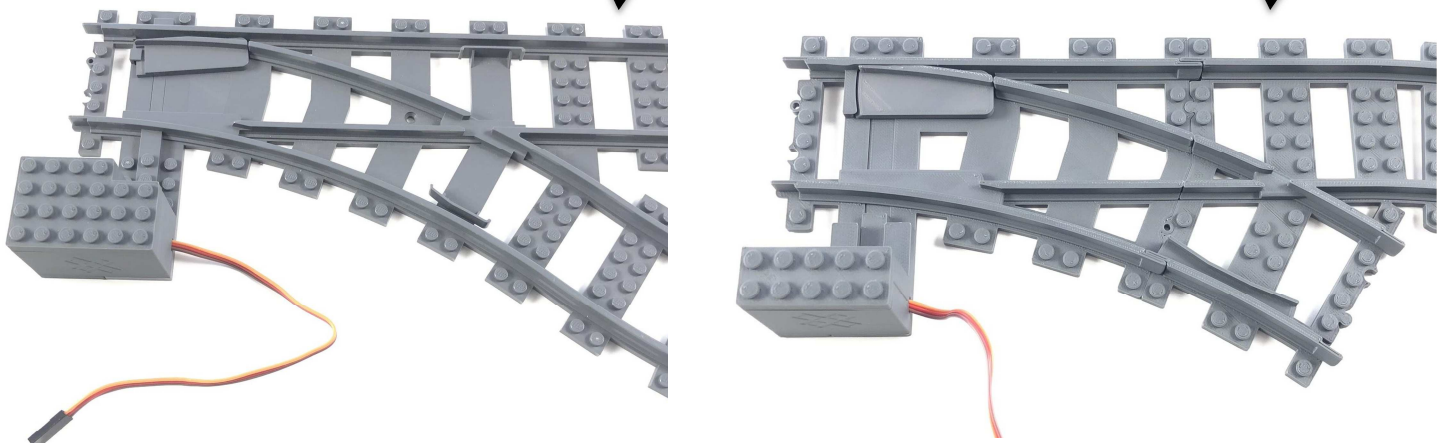
- *Trixbrix switch only:*



- Check in which position the switch is located. If necessary, change the position of the switch to the appropriate one

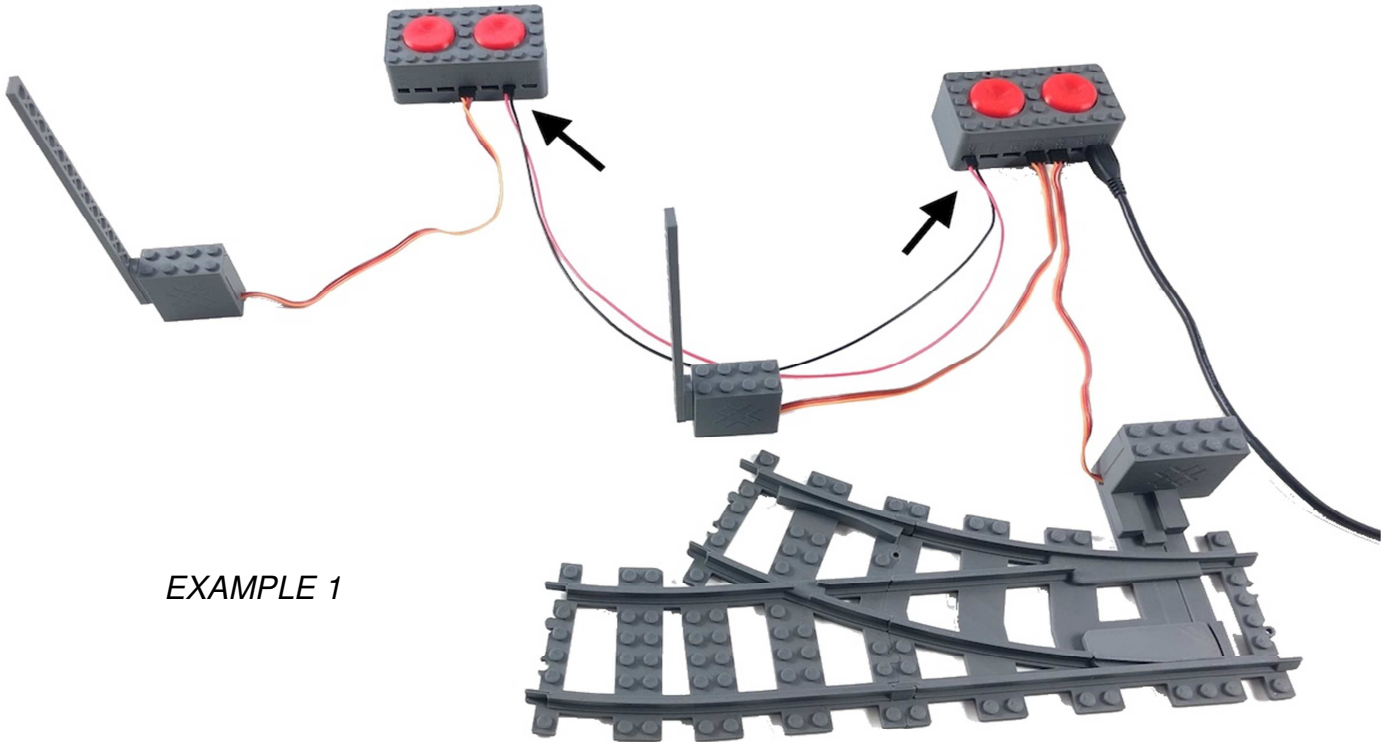
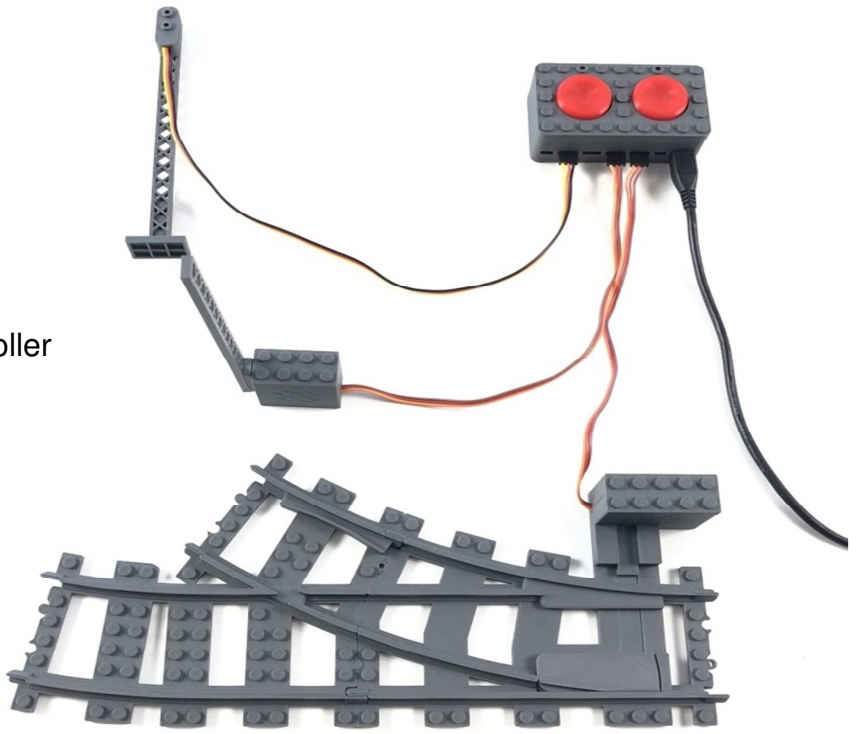


- Carefully mount the switch (4)



Operating instructions:

- Plug all devices to the controller
- Plug controller to the power supply
- After finishing, disconnect the controller from the power supply



EXAMPLE 1



EXAMPLE 2