

# Small breadboard parts set Electronic work set using timer IC "555" SBS-203



## 【Product Description】

A small breadboard (MODEL SAD-101) and parts necessary for assembly are included as a set.

## 【Product features】

- You can enjoy electronic work without soldering just by inserting parts into the breadboard.
- You can enjoy more than 9 types of work with the attached instruction manual + Web page manual.
- It is also ideal as a teaching material for school training and experiments.

## 【set content】

Bread board (SAD-101)	: 1
Jump wire (SKS-100 equivalent (100 pieces))	: 1 bag
Battery box (for AA x 2)	: 1
Timer IC 555 (LMC555 (or compatible))	: 2
Transistor (NPN) (2SC1815 (or compatible))	: 2
led	: 2
Push switch	: 6
Buzzer (piezoelectric buzzer)	: 1
Variable resistance (10kΩ) (with knob)	: 1
Variable resistance (100kΩ) (with knob)	: 1
Resistance 100Ω (Brown Black Brown)	: 2
Resistance 1kΩ (Brown Black Red Gold)	: 8
Resistance 10kΩ (Brown Black Orange Gold)	: 2
Resistance 33kΩ (Orange, Orange, Orange, Gold)	: 2
Resistance 100kΩ (Brown Black Gold)	: 2
Resistance 470kΩ (yellow purple gold)	: 2
Resistance 1MΩ (Brown Black Green Gold)	: 2
Multilayer ceramic capacitor (0.1μF)	: 2
Electrolytic capacitor (10μF)	: 2
Electrolytic capacitor (100μF)	: 2

## 【Circuit list & manual Japanese Language】

### ■ LED flashing circuit

This is an LED blinking circuit that uses the "unstable mode" of timer IC555.

### ■ LED x 2 alternating blinking circuit

This is a circuit where two LEDs blink alternately like a crossing.

### ■ Electronic fireflies

It is a circuit that repeats flashing slowly like a firefly.

(This circuit is included in the instruction manual for this product.)

### ■ Buzzer circuit

This circuit sounds a buzzer using the "unstable mode" of timer IC555.

### ■ Electronic organ

This circuit changes the resistance value that determines the buzzer frequency of the buzzer circuit for each pressed switch.

(This circuit is included in the instruction manual for this product.)

### ■ Dummy security

Like a car security lamp, the LED blinks at a slightly longer interval as "Chick ... Chika ... Chika ...".

### ■ Tick of a time bomb

A circuit that produces the sound of a time bomb click. The blinking of the LED is also synchronized.

### ■ Timer circuit

This is a circuit in which the LED blinks for a certain time after the switch is pressed.

### ■ Timer circuit (touch sensor version)

This is a circuit that uses a transistor as a touch sensor for the "Timer circuit" switch.

## 【Manuals Japanese Language】

[instruction manual](#)

[How to use breadboard](#)