

	Parts	Japanese Yen	US Dollars as ¥100/\$	Example Link (Almost Japanese Shop)	Comment
Basic	(x1) Raspberry Pi Pico W(wifi)	¥1,200	\$12	https://www.marutsu.co.jp/pc/i/2719506/	Need solder
	(x2) 20 Pin Header for Raspberry Pi Pico	¥100	\$1	https://www.marutsu.co.jp/pc/i/10041/	
	(x1) Kitronik Simply Servos Board for Raspberry Pi Pico 5339	¥1,300	\$13	https://www.marutsu.co.jp/pc/i/2349196/	Link is current version. ※1
	(x8) Servo (Feetech FS90)	¥3,000	\$30	https://www.marutsu.co.jp/pc/i/2228273/	
	(x4) Alkaline Batteries AAA (1.5v)	¥100	\$1		Anywhere
	(x1) AAx4 Battery Case	¥100	\$1	https://www.marutsu.co.jp/pc/i/595614/	
	(x4) M2x8mm Machine, countersunk head	¥250	\$2	https://www.yodobashi.com/product/100000001002302610/	
	(x77) M2x4mm Tapping screw	¥150	\$2	https://www.yodobashi.com/product/100000001003883884/	
For head LED	(x2) 3mm LED (and resistor)	¥250	\$2	https://www.yodobashi.com/product/100000001002990054/	Need solder
	(x3) Jumper wire female x female about 10cm (~15cm)	¥300	\$3	https://www.marutsu.co.jp/pc/i/250281/	
	(x3) Right angle pin header	¥50	\$1	https://www.marutsu.co.jp/pc/i/135781/	
	SUM	¥6,800	\$68		

	Parts	Japanese Yen	US Dollars as ¥100/\$	Example Link (Almost Japanese Shop)	Comment	
Other Links	(x1) Raspberry Pi Pico WH (wifi)	¥1,500	\$15		No need solder. However, the pins are thick and may be hard to take off from servo board if when you need.	
	(x1) Kitronik Simply Servos Board for Raspberry Pi Pico 5339		(£6.95)	https://kitronik.co.uk/products/5339-simply-servos-for-raspberry-pi-pico	※1	
	(x2) 3mm LED (built-in resistor type)	¥250	\$2	https://akizukidenshi.com/catalog/g/gI-16687/	Easy to Assemble.	
	(x8) Servo (TowerPro SG90)	¥4,500	\$45	https://akizukidenshi.com/catalog/g/gM-08761	Most stable.	
	(x8) Servo (Miuzei MS18)	¥2,600	\$26	https://www.amazon.co.jp/dp/B07PHFOY6B	Most Inexpensive	
	(x8) Servo (Feetech FS90)		(£3.40) x8	https://kitronik.co.uk/products/2565-180-mini-servo		
	(x4) Alkaline Batteries AAA (1.5v)		(£1.25)	https://kitronik.co.uk/products/pro-elec-alkaline-aaa-battery		
	(x4) AAA Battery rechargeable 1.2v Amazon	¥1,000	\$10	https://www.amazon.co.jp/dp/B00CWNMW1S/	Less garbage	
	(x4) AAA Battery rechargeable 1.2v Panasonic	¥2,000	\$20	https://www.amazon.co.jp/dp/B0BY8WNNMG/	Less garbage	
	(x1) AAA Case	¥150	\$1	https://www.marutsu.co.jp/pc/i/59815/		
	(x4) M2x8mm Machine, countersunk head	¥200	\$2		Check Home improvement store, DIY store	
	(x4) M2x8mm Machine, countersunk head	¥300	\$3	https://www.yodobashi.com/product/100000001006796656/		
	(x4) M2x8mm Machine, countersunk head	¥200	\$2	https://www.yodobashi.com/product/100000001003884177/		
	(x4) M2x8mm Machine, countersunk head	¥150	\$1	https://hands.net/goods/4979874465177/		
	(x75) M2x4mm Tapping screw	¥1,000	\$10	https://item.rakuten.co.jp/uxcelljapan/a16072200ux0757/	x2 Pack	
	(x75) M2x4mm Tapping screw	¥1,500	\$15	https://www.amazon.co.jp/dp/B078K9PWJZ	x2 Pack	
	(x75) M2x4mm Tapping screw			\$8	https://www.amazon.com//dp/B07ZD4BKXM	FYI (No Check)
	(x75) M2x4mm Tapping screw			\$8	https://www.amazon.com//dp/B07ZH9NQSZ/	FYI (No Check)

※1 **Kitronik Servo Board 5339**

There are in two version.

Current Version (2023/11)

You need USB Connection for moving Robot.

Though it is not remote control, it works.

Next Version (It will be release 2024/1)

Perfect remote control possible. You don't need USB Connection.

Kitronik sent me a new version board ahead of time,

and I confirmed that it works without USB connection.

	Tools	Japanese Yen	US Dollars as ¥100/\$	Just Example (Dollar shop is fine)	Comment
Basic	#1 Phillips screwdriver	¥400	\$4	https://www.yodobashi.com/product/100000001001996990/	
	Art Knife (Cutter)	¥900	\$9	https://www.yodobashi.com/product/100000001003427984/	
	about 1.5mm drill	¥400	\$4	https://www.yodobashi.com/product/100000001007502307/	Good quality drill is easy to work.
	Pin vise 1	¥1,000	\$10	https://www.yodobashi.com/product/100000001003546987/	
Options	Soldering iron set	¥900	\$9	https://www.yodobashi.com/product/100000001003424966/	FYI (No Check)
	Soldering iron	¥4,500	\$45	https://www.yodobashi.com/product/100000001001987047/	
	Flux	¥400	\$4	https://www.yodobashi.com/product/100000001001885214/	
	1.5mm, 2mm, 3mm drill	¥1,300	\$13	https://www.yodobashi.com/product/100000001003335001/	
	Pin vise 2	¥1,300	\$13	https://www.yodobashi.com/product/100000001001998054/	