



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# ARX-PARTS

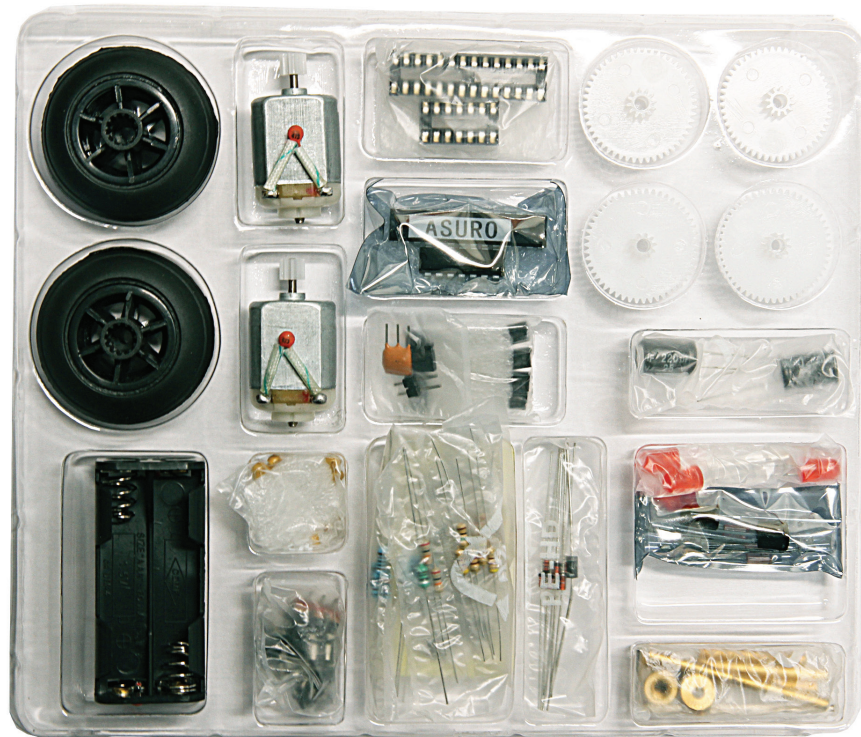
## ARX ROBOT SPARE PARTS

### ARX-PARTS

The ARX-PARTS is an essential part of the ARX STEM Video Based Curriculum.

### Overview

The ARX Spare Parts Kit contains all the parts of a ARX ASURO Robot without the extras like the USB cable. The ARX-PARTS is a must when the ARX STEM Curriculum is being used in a classroom setting as small parts are easily lost. 1 ARX-PARTS per 10 ARX Robots is recommended.



# ARX-PARTS

## ARX-ASURO ARX ASURO Robot Spare Parts

### Contents

- 1x Printed circuit board ASURO
- 2x Motors Type Igarashi 2025-02
- 1x Diode 1N40018x Diodes 1N4148
- 4x Transistors BC 327/40 or BC 328/40
- 4x Transistors BC 337/40 or BC 338/40
- 1x Integrated circuit CD 4081BE1x Processor ATmega 8L-8PC (preprogrammed)
- 1x IR-receiver SFH 5110-36
- 1x IR-LED SFH415-U2x phototransistors SFH300
- 3x LEDs 5mm red bright diffuse or asymmetric wide-angle
- 1x Dual-LED 3mm
- 2x Side-phototransistors LPT80A
- 2x Side-LEDs IRL80A
- 1x Crystal 8MHz
- 2x Elco 220 $\mu$ F at least 10V RM 3,5/10
- 4x ceramic capacitors 100nF RM 5,08
- 2x ceramic capacitors 4,7nF RM 2,54
- 1x coil L1 10  $\mu$ H
- 2x 220 $\Omega$  1/4 W 5%
- 4x 470 $\Omega$  1/4 W 5%10x 1K $\Omega$  1/4 W 5%1x 1K $\Omega$  1/4 W 1%
- 3x 2K $\Omega$  1/4 W 1%
- 2x 4,7K $\Omega$  1/4 W 5%
- 1x 8,2K $\Omega$  1/4 W 1%
- 1x 10K $\Omega$  1/4 W 1%
- 1x 12kK $\Omega$  1/4 W 1%
- 1x 16K $\Omega$  1/4 W 1%
- 1x 20K $\Omega$  1/4 W 5%
- 1x 33kK $\Omega$  1/4 W 1%
- 1x 68K $\Omega$  1/4 W 1%
- 1x 1M $\Omega$  1/4 W 5%
- 3x Socket 14 pol.
- 6x Detector switch
- 1x Switch (main on/of)
- 1x Battery holder
- 1x Battery clip
- 1x Jumper
- 1x Jumper pins 2pole RM 2.5
- 2x Cogwheel 10/50 cogs; 3,1mm drilling hole Module 0,5
- 2x Cogwheel 12/50 cogs; 3,1mm drilling hole Module 0,5
- 2x Pinion gear 10 (oder 12) cogs; drilling hole 1,9mm Module 0,5
- 2x Collar for 3mm-axle
- 4x Cable binder
- 1x Cable binder releaseable
- 2x Rubber tires 38mm
- 2x Messing shaft 42mm long 3mm diameter,
- 2x Messing shaft 24,5mm lang, 3mm diameter
- ca. 15 cm wire red 0,14mm\_
- ca. 15 cm wire black 0,14mm\_
- 2x Encoder sticker (see 2.4)



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