

ARX-PARTS

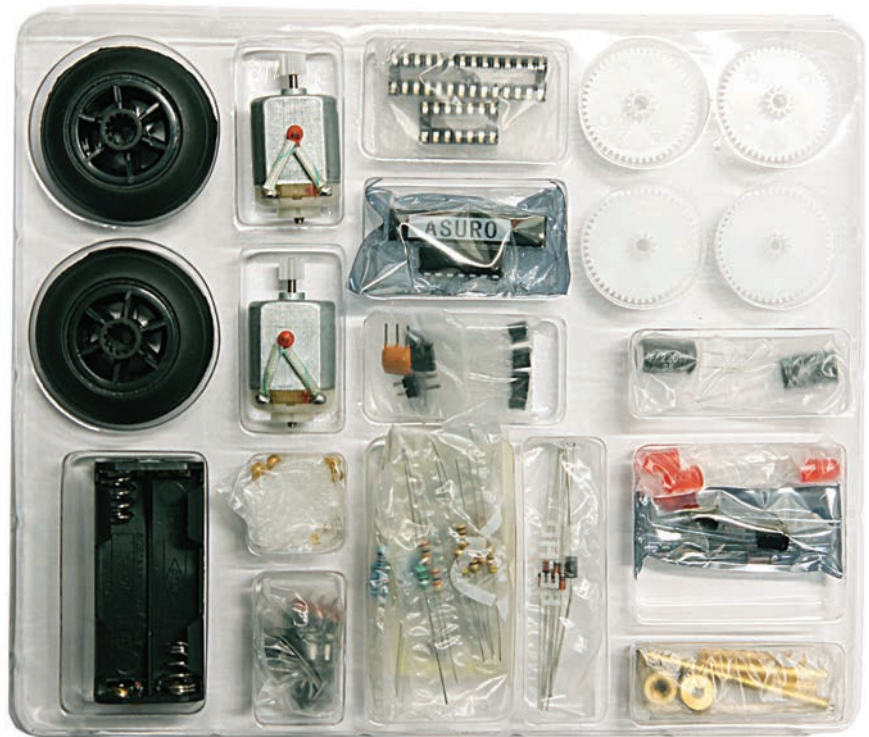
ARX ROBOT SPARE PARTS

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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 μ 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 μ H
- 2x 220 Ω 1/4 W 5%
- 4x 470 Ω 1/4 W 5%10x 1K Ω 1/4 W 5%1x 1K Ω 1/4 W 1%
- 3x 2K Ω 1/4 W 1%
- 2x 4,7K Ω 1/4 W 5%
- 1x 8,2K Ω 1/4 W 1%
- 1x 10K Ω 1/4 W 1%
- 1x 12kK Ω 1/4 W 1%
- 1x 16K Ω 1/4 W 1%
- 1x 20K Ω 1/4 W 5%
- 1x 33kK Ω 1/4 W 1%
- 1x 68K Ω 1/4 W 1%
- 1x 1M Ω 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)