

ASSEMBLY INSTRUCTIONS

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ROBOMECH

Mechanical Motorized Wooden Kit Model MWK-03

This is a creative and fun kit for you build and learn about how motors and gears work together. **Don't push any of the cut pieces out until the instructions say to do so.** It's a good idea to sand the jagged edges of the wooden pieces before assembling them together (sand paper is included in this kit). If the wooden pieces

don't fit together tightly, then try gluing them together (glue not included). Follow the instructions closely, and in about three (3) hours time, you will have

an interesting, motorized Robomech that you can paint or stain! Recommended for ages 10 and up (**adult supervision recommended**).

PARTS LIST	PARTS LIST													
	Gearbox 1 pc. MWK-03-P1	Motor DC 3V 1 pc. MWK-03-P2	Battery Holder 1 pc. MWK-03-P3	Metal Foot ("U" shape) 2 pcs. MWK-03-P4	Slide Switch with Wire 1 pc. MWK-03-P5	Metal Shaft 1 pc. (5/64" x 1 37/64") MWK-03-P6	Metal Shaft 1 pc. (1/8" x 2 3/64") MWK-03-P7	Pinion Gear 8T 1 pc. MWK-03-P8	Face Gear 36T/10T (white) 1 pc. MWK-03-P9	Gear 40T/0T (white) 1 pc. MWK-03-P10	Gear 40T/10T (red) 1 pc. MWK-03-P11	Gear 40T/10T (green) 1 pc. MWK-03-P12	Wire w/ Terminal (yellow) 1 pc. MWK-03-P13	Wire w/ Terminal (green) 1 pc. MWK-03-P14
Nylon Connector ("L" shape) 2 pcs. MWK-03-P16	Nylon Pad 2 pcs. (7/32" x 3/16" x 5/64") MWK-03-P17	Nylon Post 4 pcs. (height: 1/8") MWK-03-P18	LED with Wires 2 pcs. MWK-03-P19	Nut M3 4 pc. MWK-03-P20	Self-tapping Screw 16 pcs. (5/64" x 5/32") MWK-03-P21	Screw 2 pcs. (1/8" x 9/16") MWK-03-P22	Screw 2 pcs. (1/8" x 5/8") MWK-03-P23	Washer 6 pcs. (1/8" x 25/64" x 1/64") MWK-03-P24	Self-tapping Screw 2 pcs. (3/32" x 5/8") MWK-03-P25	PVC Tube 1 pc. (1/16" x 19/32") MWK-03-P26	PVC Tube 2 pcs. (3/32" x 19/32") MWK-03-P27	Nylon Pad 8 pcs. (Diameter: 5/16") MWK-03-P28	Paint & Paint Brush Set Assorted Colors Non-toxic, water-based. Conforms to EN71 & ASTM D-4236 MWK-03-P29	

TOOLS YOU WILL NEED

- Long Nose Pliers or Tweezers
- Batteries (2 "AA")
- Small Phillips Screwdriver (Magnetized head is recommended)

Note: If you do not have magnetized screwdriver, then you can put a dab of Vaseline on the screw head to hold to the screwdriver.

PRE-PUNCHED BOARDS

You may paint the pieces on the boards before punching them out if you wish, or paint them after assembly.

1

- Gears P10, P11, P12, and P9 should be at the left-hand side of the pinion gear (P8).
- Put one "L"-shaped nylon connector (P16) downward and the other upwards as shown.
- Insert the motor in the direction shown.

Note: The side with a lip should be towards the metal case. Gears must interlock as shown. Pads P17 must be fully pushed on or gears will slip.

2

3

Note: Screw the two brackets (P15) to boards 2 & 3, then fix them to the board.

4

Note: Don't screw P22 & P23 too tight. Leave them a little loose to help the Robomech to walk smoothly.

5

Note: Screw the battery holder (P3) to the bottom of board 1.

6

7

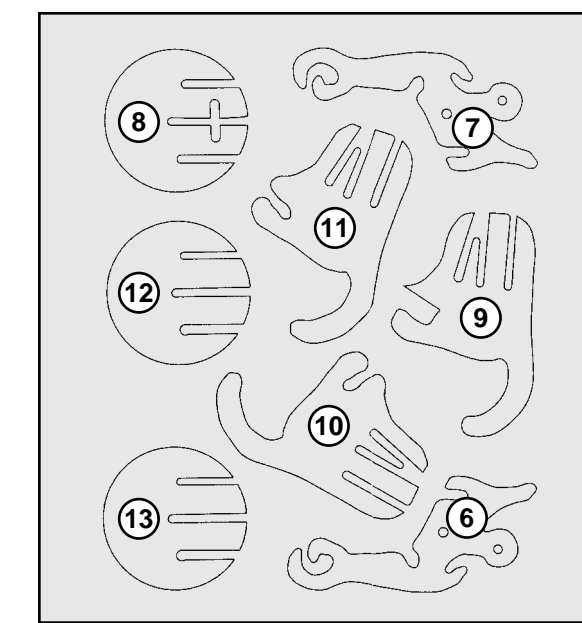
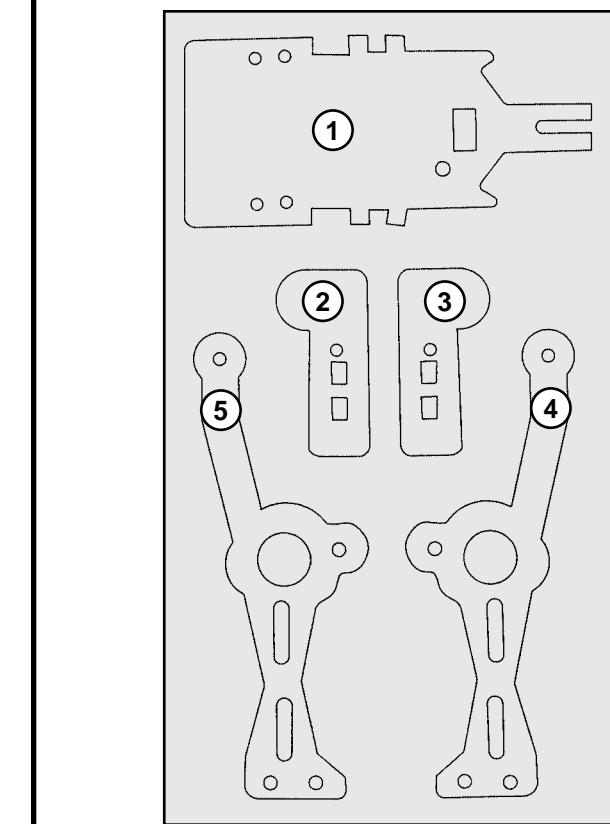
8 Wiring Diagram

Note: Slide the PVC tube (P26) on one wire before twisting the two wires together, then slide the tubing over the joint as shown.

Quick Test: Turn on, make sure that the gears turn smoothly and the legs move smoothly. Make necessary adjustments as needed.

Finished Robomech

You may paint your Robomech with any or all of the assorted color paints provided.



TROUBLESHOOTING

- If the Robotech can't walk smoothly, try adjusting the screws on its legs and arms so they are neither too loose nor too tight.
- Make sure that the two "L"-shaped nylon connectors (P16) are in opposite directions (refer to step 1).
- Make sure that all of the wiring is correct and separate the pins of the LEDs to avoid a short circuit.

If you need additional assistance, contact Elenco™.

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