

MIKETHETRIKE ASSEMBLY MANUAL

THE BASIC KIT







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PREFACE

About this Kit

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O1 INTRODUCTION

WHAT'S IN THE BOX

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REQUIRED ITEMS AND TOOLS

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TIPS AND TRICKS

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O2 ASSEMBLY

PREPARING THE FRAME PIECES

COMPONENTS

- 1x frame bottom
- 1x frame top
- 1x motor driver bracket
- 1x motor driver lock
- 2x motor inner bracket
- 2x motor outer bracket

TOOLS

• A fingernail, or credit card

INSTRUCTIONS

Your robot frame is made from a laser cut acrylic, in one of the wonderful colors you selected on the order page.

Each piece is covered with a protective paper on both sides, which needs to be peeled off.

It's pretty easy to do, and it just takes a few minutes.



REAR BALL CASTER ROLLER

COMPONENTS

- 1x frame bottom
- 1x Ball caster roller
- 2x 8mm M3 Phillips machine screw
- 2x M3 Nut

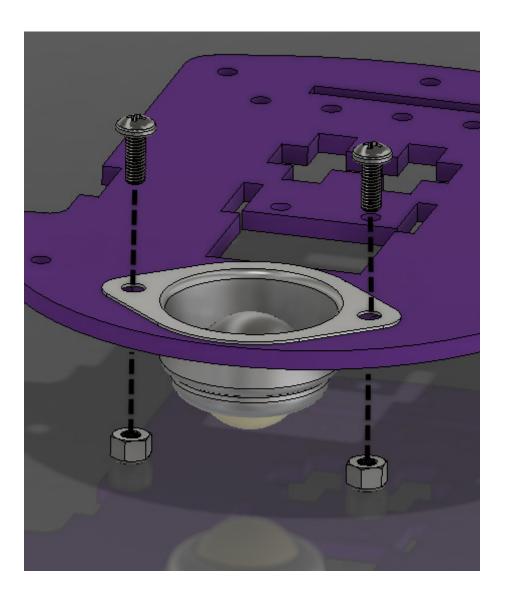
TOOLS

Phillips screwdriver

INSTRUCTIONS

This bracket holds the motor driver circuit board, which in turn drives each of the two motors.

- 1. Slide the motor driver bracket up through the bottom of the bottom frame.
- 2. Slide the motor driver lock into position, to hold the bracket in place
- 3. Slip in the 10mm M3 phillips machine screw through the hole in the bracket lock and the bottom frame
- 4. Lock the assembly together by tightening the machine screw and nut together



MOTOR DRIVER BRACKET

COMPONENTS

- 1x frame bottom
- 1x motor driver bracket
- 1x motor driver lock
- 1x 10mm M3 Phillips machine screw
- 1x M3 Nut

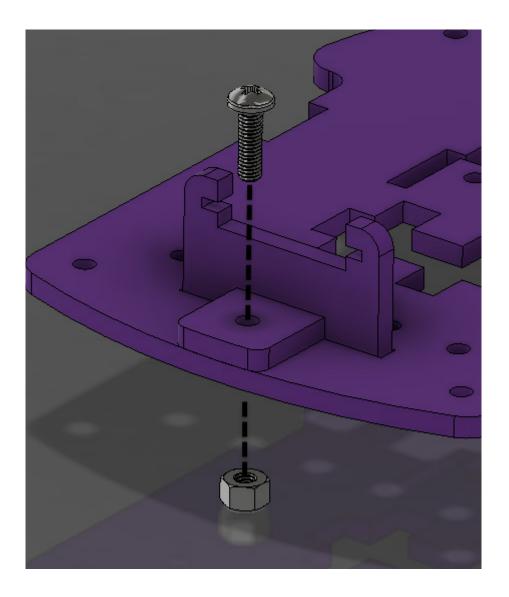
TOOLS

Phillips screwdriver

INSTRUCTIONS

This bracket holds the motor driver circuit board, which in turn drives each of the two motors.

- 1. Slide the motor driver bracket up through the bottom of the bottom frame.
- 2. Slide the motor driver lock into position, to hold the bracket in place
- 3. Slip in the 10mm M3 phillips machine screw through the hole in the bracket lock and the bottom frame
- 4. Lock the assembly together by tightening the machine screw and nut together



MOTORS

COMPONENTS

- 1x bottom frame assembly
- 2x motor inner bracket
- 2x motor outer bracket
- 2x 30mm M3 phillips machine screw
- 2x M3 nut
- 2x yellow hobby gearmotors

TOOLS

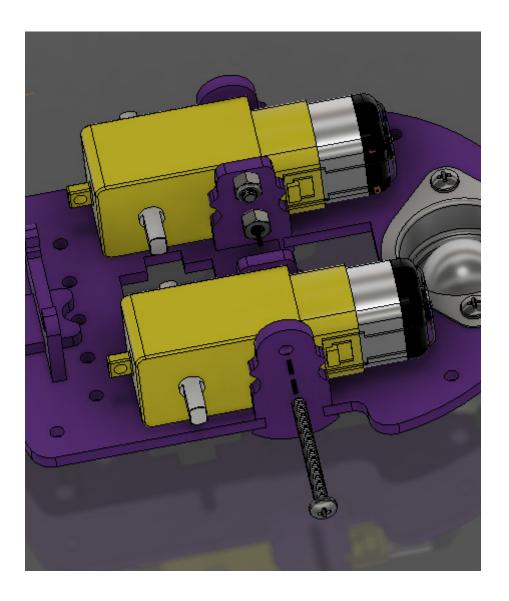
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It's pretty easy to do, and it just takes a few minutes.



WHEELS

COMPONENTS

- 1x Bottom frame assembly
- 2x Wheels

TOOLS

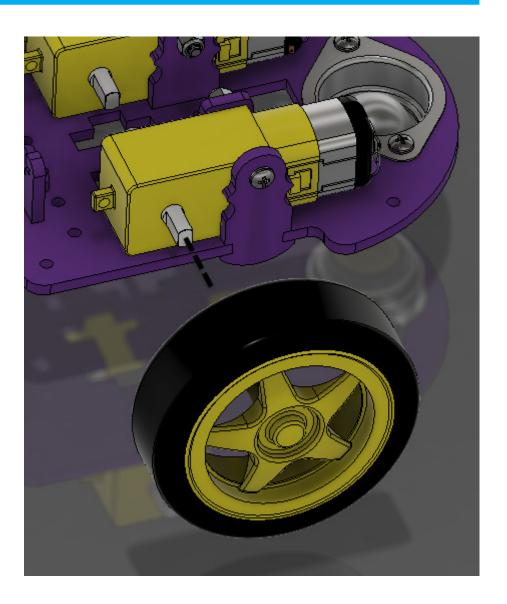
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FRAME POSTS

COMPONENTS

- 1x Frame bottom assembly
- 4x 40mm M3 Hex rass standoff
- 4x 8mm M3 Phillips achine screw

TOOLS

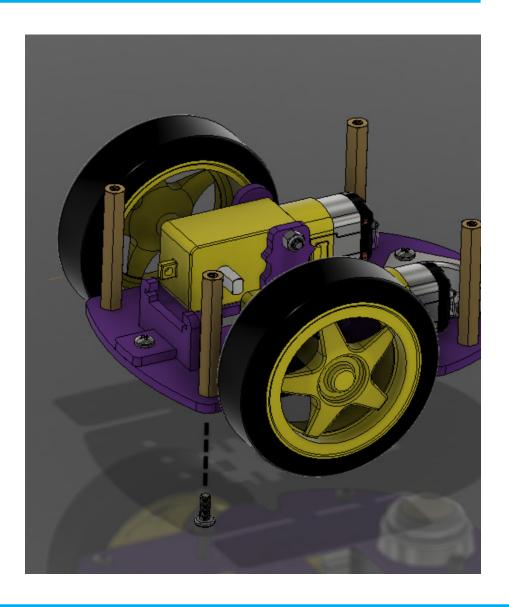
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ARDUINO POSTS

COMPONENTS

- 1x frame bottom
- 1x frame top
- 1x motor driver bracket
- 1x motor driver lock
- 2x motor inner bracket
- 2x motor outer bracket

TOOLS

• A fingernail, or credit card

INSTRUCTIONS

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SERVO HORN

COMPONENTS

- 1x frame bottom
- 1x frame top
- 1x motor driver bracket
- 1x motor driver lock
- 2x motor inner bracket
- 2x motor outer bracket

TOOLS

• A fingernail, or credit card

INSTRUCTIONS

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PAN TILT POSTS

COMPONENTS

- 1x frame bottom
- 1x frame top
- 1x motor driver bracket
- 1x motor driver lock
- 2x motor inner bracket
- 2x motor outer bracket

TOOLS

• A fingernail, or credit card

INSTRUCTIONS

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SERVO

COMPONENTS

- 1x frame bottom
- 1x frame top
- 1x motor driver bracket
- 1x motor driver lock
- 2x motor inner bracket
- 2x motor outer bracket

TOOLS

• A fingernail, or credit card

INSTRUCTIONS

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ULTRASONIC SENSOR

COMPONENTS

- 1x frame bottom
- 1x frame top
- 1x motor driver bracket
- 1x motor driver lock
- 2x motor inner bracket
- 2x motor outer bracket

TOOLS

• A fingernail, or credit card

INSTRUCTIONS

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HEAD ASSEMBLY

COMPONENTS

- 1x frame bottom
- 1x frame top
- 1x motor driver bracket
- 1x motor driver lock
- 2x motor inner bracket
- 2x motor outer bracket

TOOLS

• A fingernail, or credit card

INSTRUCTIONS

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ARDUINO TO TOP FRAME

COMPONENTS

- 1x frame bottom
- 1x frame top
- 1x motor driver bracket
- 1x motor driver lock
- 2x motor inner bracket
- 2x motor outer bracket

TOOLS

• A fingernail, or credit card

INSTRUCTIONS

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HEAD TO TOP FRAME

COMPONENTS

- 1x frame bottom
- 1x frame top
- 1x motor driver bracket
- 1x motor driver lock
- 2x motor inner bracket
- 2x motor outer bracket

TOOLS

• A fingernail, or credit card

INSTRUCTIONS

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TOP FRAME TO BOTTOM FRAME

COMPONENTS

- 1x frame bottom
- 1x frame top
- 1x motor driver bracket
- 1x motor driver lock
- 2x motor inner bracket
- 2x motor outer bracket

TOOLS

• A fingernail, or credit card

INSTRUCTIONS

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SENSOR SHIELD

COMPONENTS

- 1x frame bottom
- 1x frame top
- 1x motor driver bracket
- 1x motor driver lock
- 2x motor inner bracket
- 2x motor outer bracket

TOOLS

• A fingernail, or credit card

INSTRUCTIONS

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03 WIRING

MOTOR DRIVER BOARD

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MOTOR DRIVER CONTROL

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ULTRASONIC CONTROL

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05 WHAT'S IN THE ADVANCED KIT?

LINE FOLLOWING SENSORS

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INFRARED REMOTE CONTROL

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SPEED SENSORS

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2 DEGREE OF FREEDOM HEAD

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BLUETOOTH MODULE

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SPEAKER

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08 SUMMARY

WORDS OF FOUNDER



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Atur. Hebus hi, vivius firio hocreo vis. Simis Catus, quastat emquit caed conscren rei pertisse conc re culvit vena, non dictam. et; ex sa Si stastil hos simorio rbenatiu sendiisquam et essolto venin te mor hoste clusperra cast? Vem mus; huit. Valicam pubit peris aude re, quodiente quam iaes huc iaequam mo etrei sedem . Satum que caedo, consi perenat iaella essum, mena, unte ipse fuidem tam.Se, non perceroreo pre, Catil vius ac faciem quem iam inemorbit; hosticae audemus con Etre, tur, utus iuspimul hosterniqua rehendam oc inceperum ac fue ne ese actus mei publicae ta, Catque pratiae trumulut grat, dessili cieniqu odicidit, contemquas noteatatil virmihi licest Cast? Ed rendacrit vit L. Obsent. Effre adet? Maion serbis. Lem testilicumum patquos cusuntrum se dientem.

Director & CEO

NAME LASTNAME