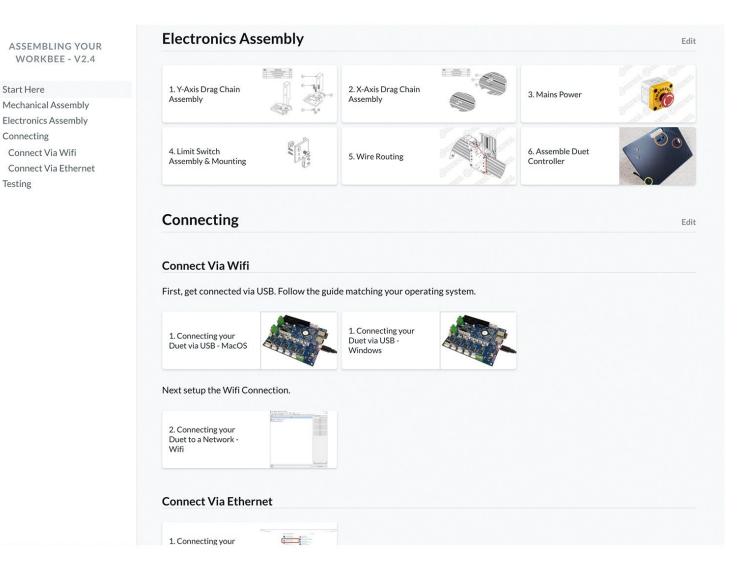


# 1. Introduction

Written By: Robert

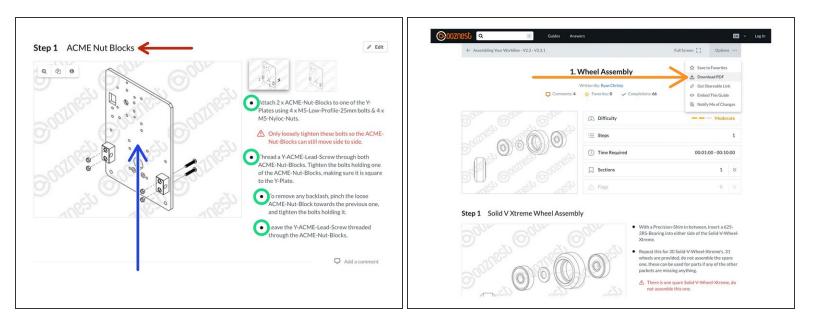


# Step 1 — Following the Manual

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Electronics Assembly Connecting				1 Straft		
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Testing				1.1.1.1		0
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	1. Connecting your		1. Connecting your Duet via USB -	iting system.		
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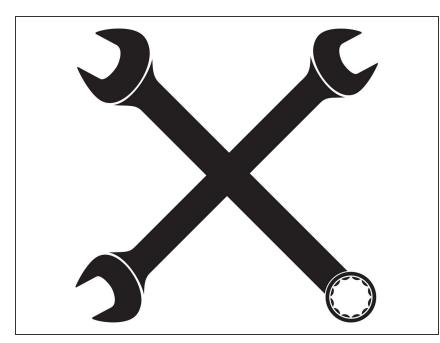
- Your WorkBee will be given a version number. You may need to know the version number at points in the guide.
  - The Version Number of your WorkBee can be found on the Flyer included in box.
- (i) The number below the version number is the serial number of your WorkBee.
- The manual is broken down into sections: Mechanical Assembly, Electronics Assembly, Connecting and Testing.
  - Connecting is broken into two sub sections - Connect Via Wifi and Connect Via Ethernet.
    - Only follow the sub section matching the connectivity of your machine.
    - For the Ethernet version, you do not need to connect via USB.
  - Within each section follow through the guides in numerical order.

# Step 2 — Following The Guides



- Each Guide is broken down into a number of Steps.
  - Each Step is broken down into a number of coloured Points.
  - Complete all Points in each Step, and all Steps in each Guide to complete the Guide.
  - Some Steps/Points may not apply to your version. It will be clearly indicated to which version they apply.
- Each Step will have one or more image.
  - Click on the image to view the high resolution version.
  - Try it now!
- Go to 'Options' > 'Download PDF' to get a printable version of each guide.

# Step 3 — Tools Required



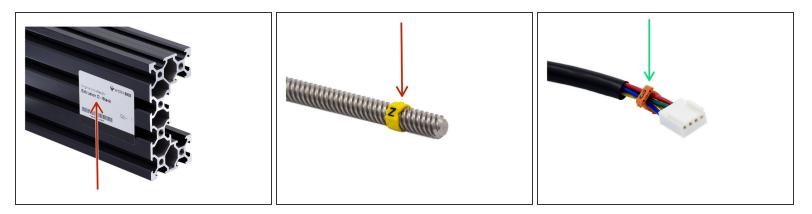
- 1.5, 2.0, 2.5, 3.0, 4.0, 5.0mm Hex keys
- 5.5, 7.0, 8.0mm Spanners
- Selection of Philips and Flathead Screwdrivers. Pozi #1 & Pozi #2 required. Insulated versions should be used on electronics
- Engineers Square
- Soft mallet or Rubber hammer
- Tweezers and Wire cutters
- A bearing lubricant such as SuperLube Grease
- ▲ Do not use power tools to assemble the WorkBee Z1+

### Step 4 — Part Labels



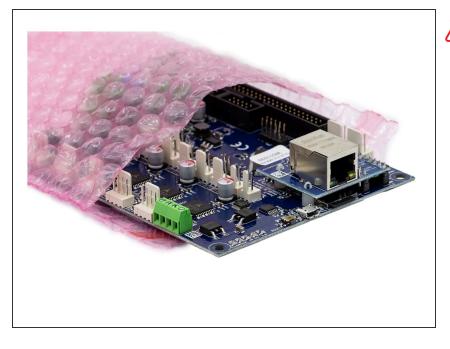
- Most parts of the kit are labelled with the part name and quantity provided.
  - The name on the label will match the name used in the guides.
  - For most small parts we will provide spares.
    - (i) The quantity on the label will include any spares.
- To quickly find which parts are in which box Download and print our <u>Box Cheat Sheet</u>

#### Step 5 — Extrusions, Lead Screws & Wires



- Each Extrusion or Lead-Screw is assigned a letter.
  - In the Guide these will be referred to as Extrusion-A, Extrusion-B, Lead-Screw-Z etc
    - Extrusion-F and Lead-Screw-Y are matched pairs. Do not mix these with other Extrusions or Lead-Screws
- (i) We recommend that the labels are not removed until the build is complete, as the guides will refer to these letters throughout.
- The wires coming from each Motor or Limit Switch will be assigned a Number & Colour based on the Axis they are used for.
  - In the guides, these will be referred to as Limit-Switch-0, Motor-Wire-3, Motor-Wire-4 etc
  - (i) Download and print our Motor Wire and Limit Switch Cheat Sheet

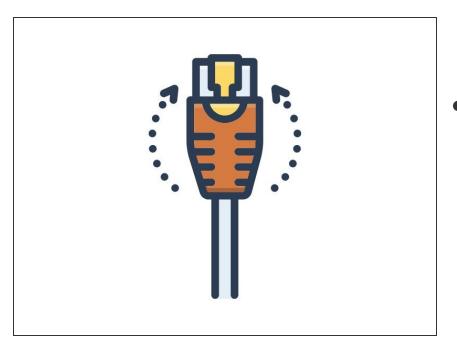
#### Step 6 — Protect the Electronics!



# Electronic Boards will come in an ESD Bag.

- Do not take the Electronic boards out of the bag until needed.
- Touch something metal before touching the board to discharge any static electricity.
- Never touch the components on the board. Always handle the board via the edges.
- Be extra cautious when you are around static materials, such as carpets and wool.

# Step 7 — Ethernet Users



- If you are using a USB to Ethernet adaptor it must have crossover detection.
  - Not all USB to Ethernet adaptors have this feature. So double check your model.
  - We sell a tested USB to Ethernet Adaptor on our <u>Website</u>

# Step 8 — Need Help?

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Save Dire Populah Balan Elam Mediada Bilayon Mediada Bilayon Stare Catalone Fane fair and Managa Mart	<ul> <li>Step 1 Solid VXtreme Wheel Assembly</li> <li>• With Physics Size Indexes and a VXtreme Wheel Assembly</li> <li>• With Physics Size Indexes Size Indexes and a VXtreme VXtreme</li></ul>	) <sup>301</sup> FINISH LINE

- Have an issue with assembly? Got a damaged Part? Missing a Part? Do one of the following:
  - Live Chat With Us
  - Email Us
  - <u>Ask A Question</u>
  - Make A Comment
  - Discuss On The WorkBee Facebook Group
- Please note to report a missing part, damaged part or get a replacement under warranty you will need to <u>Live Chat</u> or <u>Email Us</u>

# Step 9 — Top Tips From Us



- Read each guide from start to finish before beginning. This will give you an idea of the direction you are heading.
  - Don't just look at the pictures. The written instructions are as concise and cleary written as possible.
- Follow these guides only! Do not follow other WorkBee build guides or YouTube videos. Do not even follow Ooznest's videos. They may not apply to your version.
- Everything should go together easily. If something is requiring a lot of force. Take a breather and read the guides again.
- M5-Tee-Nuts have to be inserted from the end of the extrusion. If you forget to insert one don't panic!
  - Spare M5-Drop-In-Tee-Nuts are provided. Simply drop them in the slot, engage the bolt, and they will bite into the underside of the slot.
- Don't Rush! Building the WorkBee is as much fun as using it. The quicker you build it the less fun you will have
   :)
- You are ready to begin! Start with <u>1.</u> <u>Wheel Assembly</u>