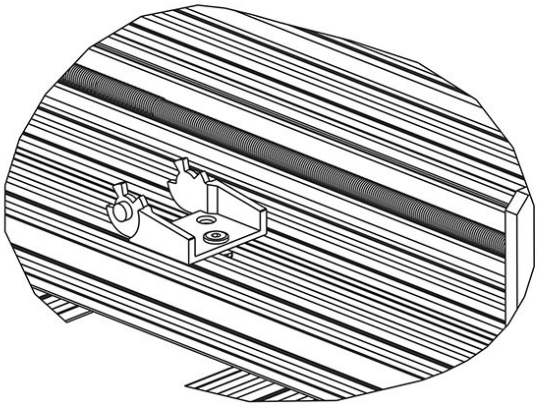
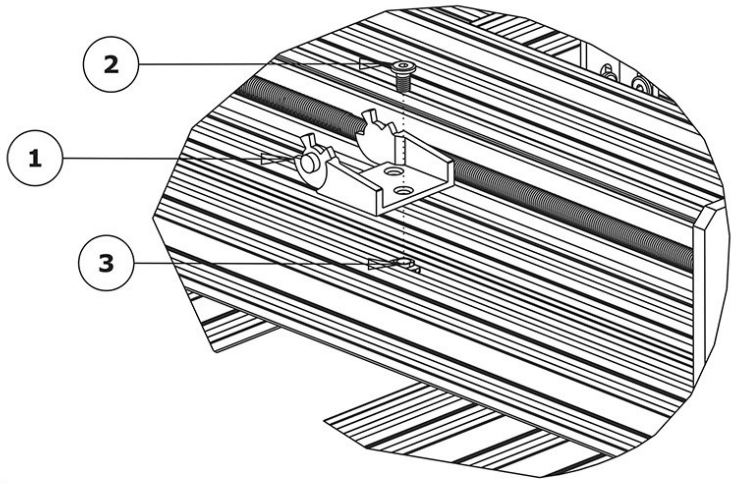
2. X-Axis Drag Chain Assembly

Written By: Harry Ince

ITEM NO	DESCRIPTION	QTY
1	DRAG-CHAIN-FIXED-END	1
2	M5-LOW-PROFILE-8MM	1
3	M5-DROP-IN-TEE-NUT	1



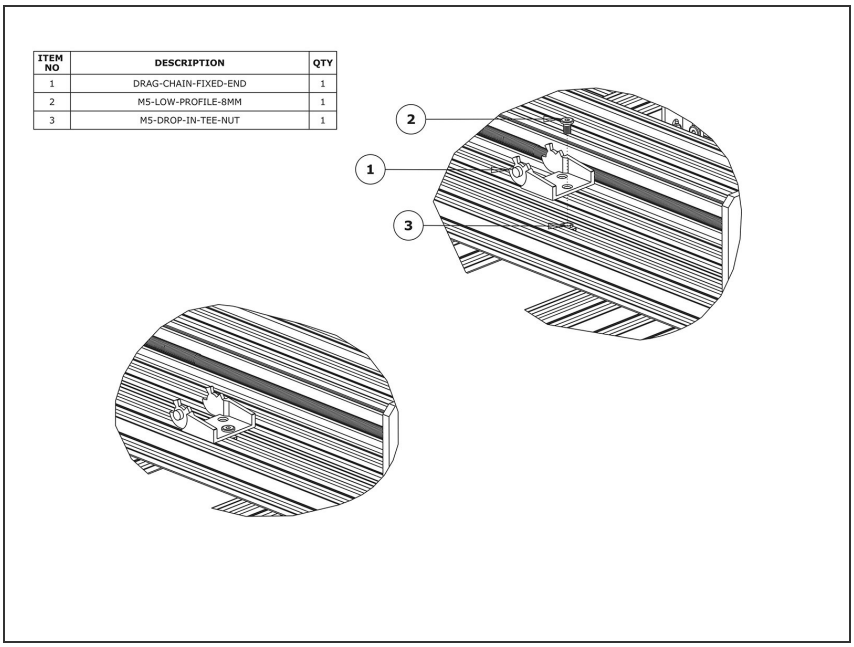


Step 1 — Wire Identifications

If the wires in your kit have white printed tags, please ignore this step. Each wire, at the connector end has a coloured clip with a number. This colour and number identifies this wire. Please see key below.

- (0)(Black) X-Axis Limit Switch
- (1)(Brown) Y-Axis Limit Switch
- (2)(Red) Z-Axis Limit Switch
- (3)(Orange) X-Axis Stepper Motor Wire.
- (4)(Yellow) Left Y-Axis Stepper Motor Wire.
- (5)(Green) Right Y-Axis Stepper Motor Wire.
- (6)(Light Blue) Z-Axis Stepper Motor Wire.

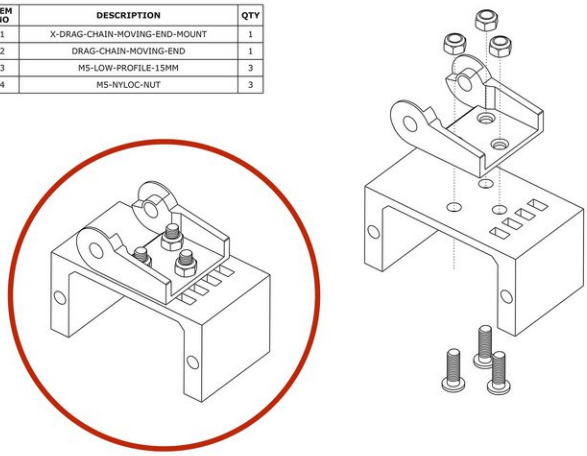
Step 2 — X-Axis Fixed End Mounting

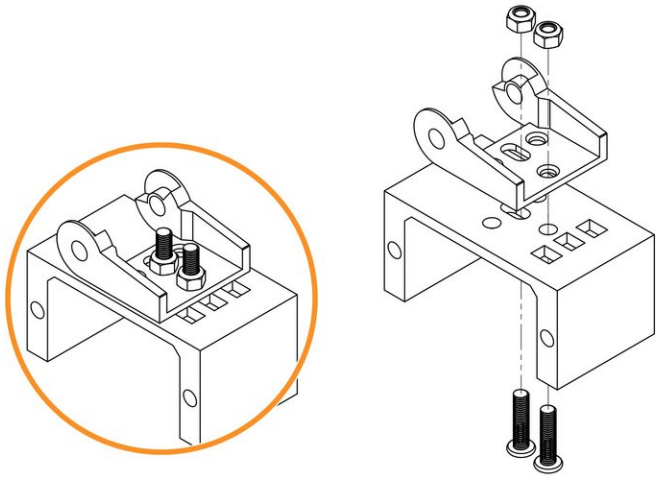


- Attach a Drag-Chain-Fixed-End to the V-Slot-2040-750mm using an M5-Low-Profile 8mm and an M5-Drop-In-Tee-Nut.
  - It should be located 150mm from right hand end of the V-Slot-2040-750mm if looking from the back. Ensure that it is parallel with the V-Slot-2040-750mm.

Step 3 — X-Axis Moving End Assembly

ITEM NO	DESCRIPTION	QTY
1	X-DRAG-CHAIN-MOVING-END-MOUNT	1
2	DRAG-CHAIN-MOVING-END	1
3	M5-LOW-PROFILE-15MM	3
4	M5-NYLOC-NUT	3

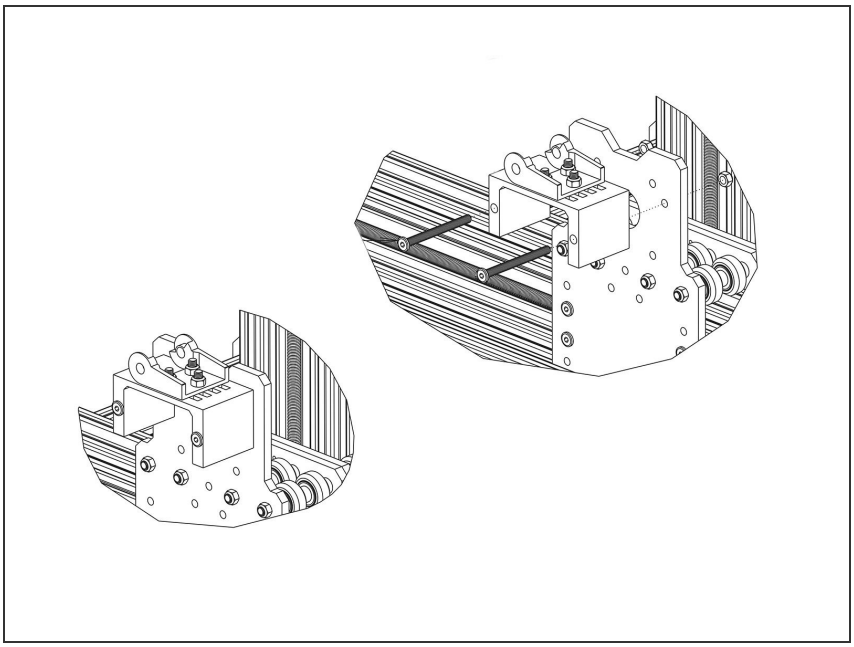




ⓘ WorkBee Kits may include different version drag chains, please refer to the correct drawings for assembly of the version supplied.

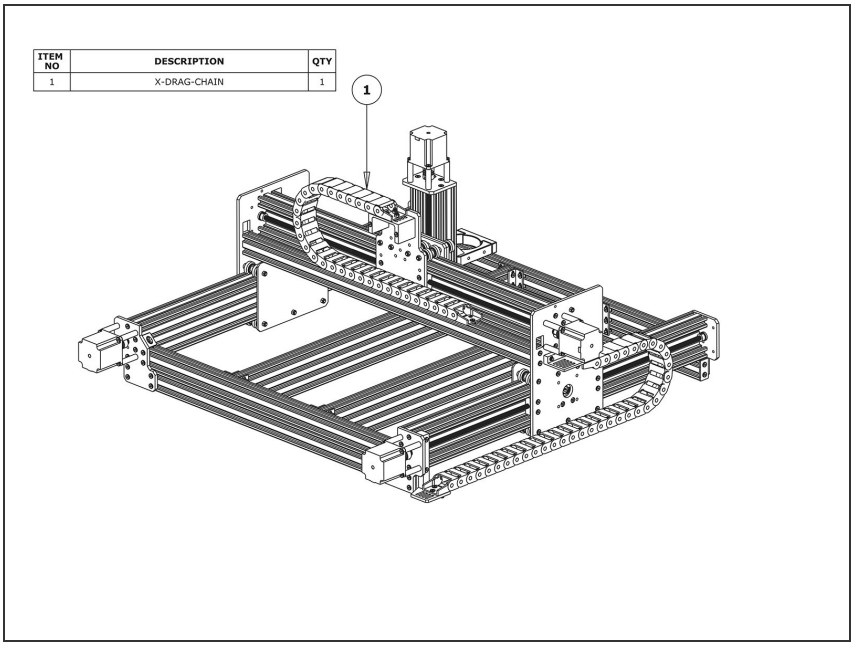
- Attach a Drag-Chain-Moving-End to the X-Drag-Chain-Moving-End-Mount in the orientation shown above using 3 x M5-Low-Profile-15mm bolts and 3 x M5-Nyloc-Nuts.
- Attach a Drag-Chain-Moving-End to the X-Drag-Chain-Moving-End-Mount in the orientation shown above using 2 x M5-Low-Profile-15mm bolts and 2 x M5-Nyloc-Nuts.

Step 4 — X-Axis Moving End Mounting



- Secure the X-Axis-Moving-End-Assembly to the X-Plate-Back using 2 x M5-Low-Profile-60mm bolts and 2 x M5-Nyloc-Nuts.

Step 5 — X-Drag-Chain



- Like with the Y-Axis, lay the X-Drag-Chain flat on a table. Feed through the (6)(Light Blue) Z-Axis Stepper Motor Wire.

  ⚠ If you have an Ooznest XYZ Touch Probe, please complete Step 4 of Assembling Your Original WorkBee XYZ Touch Probe

  ⓘ The tabs of the Drag-Chain can be flipped open with a small flathead screwdriver. Doing this will help to feed the cables.

- The end of the stepper motor wires with the black connectors should be at the male end of the X-Drag-Chain (opposite to Y-Axis).
- Attach the female end of the X-Drag-Chain to the Drag-Chain-Fixed-End on the V Slot-2040-750mm. It will take some force to click it into the Drag-Chain-Fixed-End. A small flathead screwdriver can be used to help pry the Drag-Chain in place.
- Bring the male end of the X-Drag-Chain up to the X-Axis-Moving-End-Assembly and attach it to the Drag-Chain-Moving-End. It will take some force to click it into the Drag-Chain-Moving-End. A small flathead screwdriver can be used to help pry the Drag-Chain in place.

Thanks for following the guide. Any issues, please contact us!