



GIGABOT[®] RETROFIT KIT ASSEMBLY INSTRUCTIONS



SHORT WHEELED PLATFORM



Rev. November 2015

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READ INSTRUCTIONS : All the safety and operating instructions should be read before the printer is operated.

RETAIN INSTRUCTIONS : The safety and operating instructions should be retained for future reference.

HEED WARNINGS : All warnings on the product and in the operating instructions should be adhered to.

FOLLOW INSTRUCTIONS : All operating and use instructions should be followed.

CLEANING : Unplug this product from the wall outlet before cleaning. Do not use liquid or aerosol cleaners.

ATTACHMENTS : Do not use attachments or enhancements not recommended by the product manufacturer as they may cause hazards.

WATER AND MOISTURE : Do not use Gigabot near water - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

PLACEMENT : Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

VENTILATION : Slots and openings in the electrical box are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

POWER SOURCES : This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home consult your appliance dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

LEGALESE

GROUNDING OR POLARIZATION : This product may be equipped with either a polarized 2-wire AC line plug (a plug having one blade wider than the other) or a 3-wire grounding type plug, a plug having a third (grounding) pin. The 2-wire polarized plug will outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug. The 3-wire grounding type plug will fit into a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding type plug.

POWER-CORD PROTECTION : Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

LIGHTNING : For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

OVERLOADING : Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

OBJECT AND LIQUID ENTRY : Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

THANK YOU FOR PURCHASING THE SHORT WHEELED PLATFORM RETROFIT KIT FROM re:3D Inc.®!

This upgrade will let you place Gigabot® on top of a rolling platform for both easier accessibility and greater mobility. You will find that this is especially helpful for working with the Gigabot® while standing, or if you need to move the Gigabot® to another spot in the room. If you have purchased a kit for the Gigabot® XL, only the common rails will be longer. Assembly will remain the same.

REFERENCES & HELPFUL DOCUMENTS :

Some external resources may be helpful during the assembly process. For example, knowing the correct names for different parts on the Gigabot®, or proper use of certain tools. Resources that we thought may be helpful have been linked to at the end of this guide.

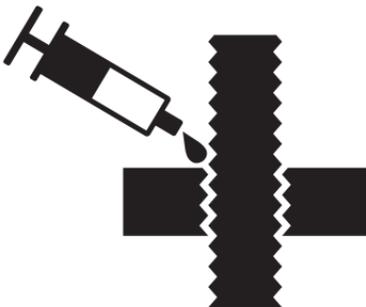
VIDEO INSTRUCTIONS :

If you prefer a video guide, please search for “re3D Tech” on YouTube and find our “Wheeled Platform” video.

BEFORE YOU BUILD

IT'S HIP TO BE SQUARE!

When assembling the Gigabot®, it is essential to work on a flat surface and to carefully square perpendicular parts as much as possible. This is especially important while assembling the side plates, Z-axis uprights and vertical common rails, bed frame, upper and lower cross rails, and bridge assembly. Use large clamps to help square up frames if needed.



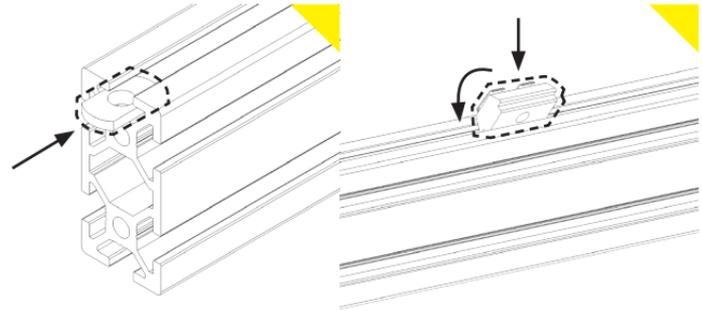
THE USES OF GREASE

A little bit of grease is helpful when installing the V-groove wheels and assembling the Z-axis ACME threaded rods. These will help hold the eccentric spacers when installing the V-groove wheels and also keep them from damaging the side plates or end trucks during adjustment. Likewise, it will ensure smooth, quiet operation when applied to the Z-axis ACME threaded rods. Refer to our YouTube page for a video example ([link in the References & Documents page at the end of this guide](#)).

BEFORE YOU BUILD

T-NUTS, HOW DO THEY WORK?

T-nuts are an essential part of assembling the Gigabot®. These are inserted into the aluminum extrusion in order to fasten parts to the frame. Post assembly T-nuts are also used. These hold their positions well without sliding around, and are useful when installing retrofits.



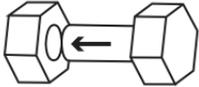
MEASURING AND MARKING

There are parts of the instructions that suggest marking spots on the Gigabot® to properly place parts. When marking, be sure to only use a pencil--using a permanent marker will leave unsightly marks on the metal!

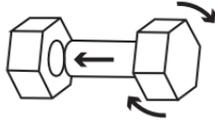


LEGEND

Insert



Fasten



Place



Align

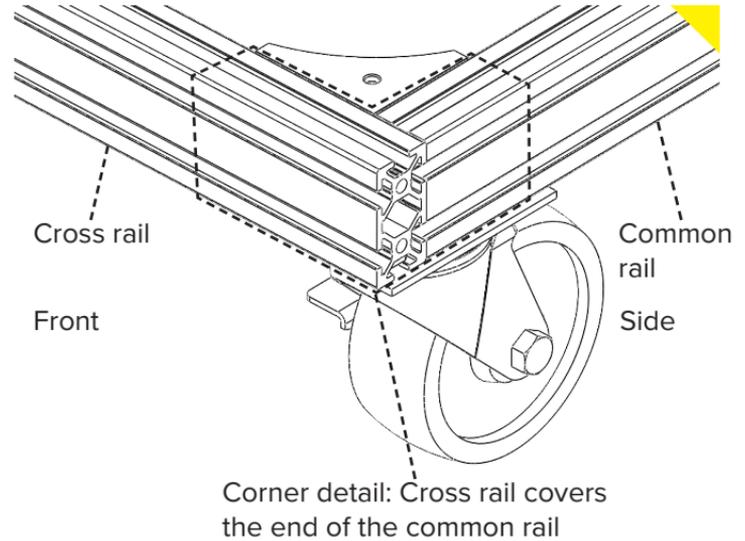
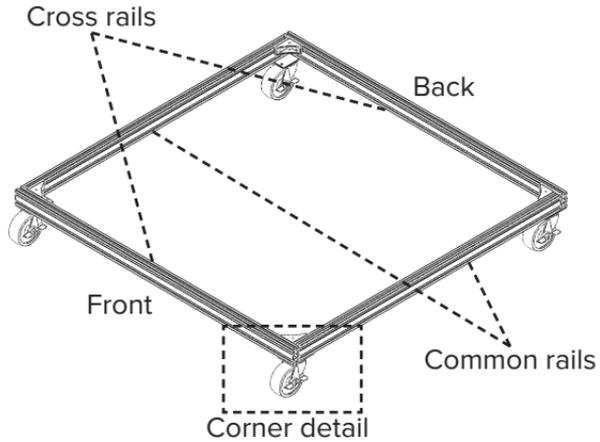


Remove



Objects of importance are outlined with dotted lines

OVERVIEW



BILL OF MATERIALS

Cross rails (33.5"/850mm)



2

Common rails
(31.5"/800mm)*



2

Caster wheels



4

M5x8mm BHCS



12

Corner angle bracket



4

M5x10mm BHCS



8

M5 T-nuts



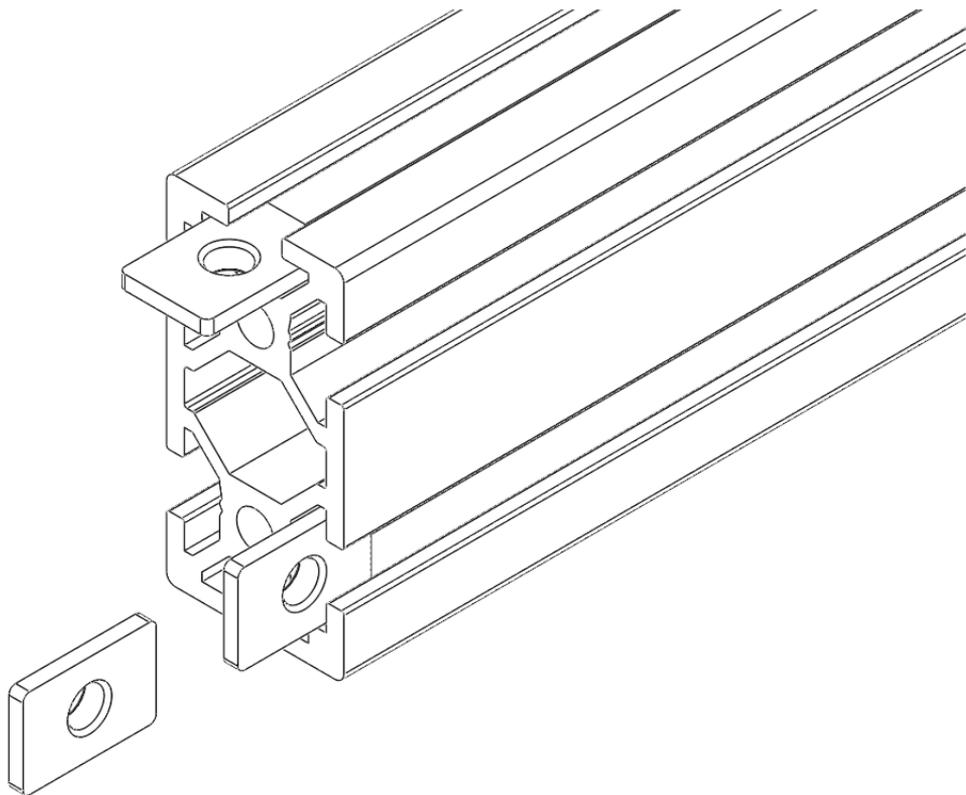
20

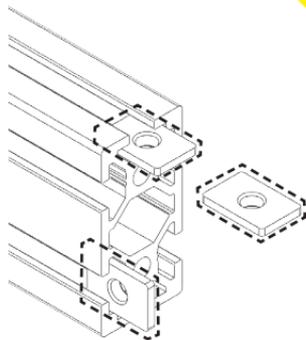
*XL Gigabot® includes 37.5"/954mm common rails

TOOLS NEEDED

- 3mm Allen Key
- Precision square

INSERT T-NUTS

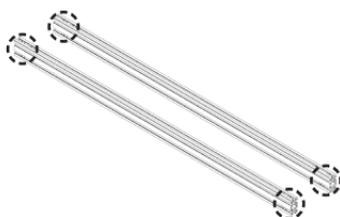




A1

The cross rails are wrapped in blue plastic. They will also be labeled with a tag. Remove the plastic and tag from the rails. *You can also verify the cross rail by checking its length. Refer to the BOM on page 5.*

On one end of a cross rail, insert 2 T-nuts in the top surface slot. Also insert 1 T-nut in the lower slot of the front surface. *Refer to “Before you Build” section for T-nut notes (pg. 9)*



A2

Do this for both ends of the cross rail. The cross rail should have 6 T-nuts total. Repeat for the other cross rail

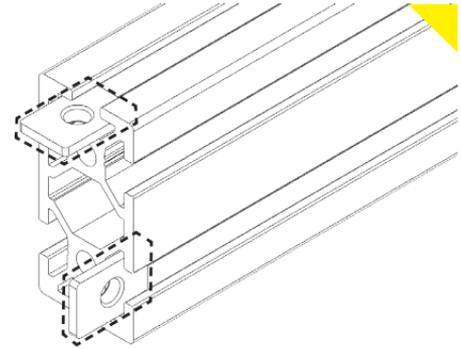
A3

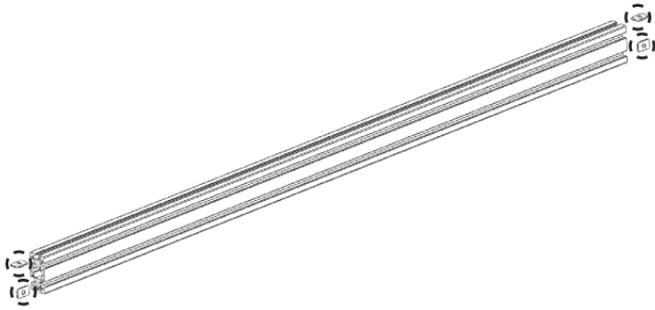
Move these aside for now, but do not change their orientation! The common rails are wrapped in green plastic. Remove the plastic from the rails.



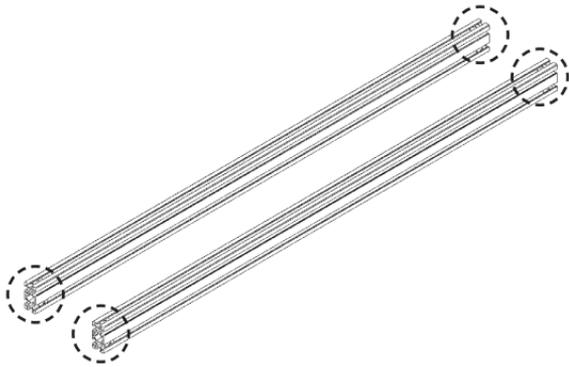
A4

On one end of a common rail, insert 1 T-nut in the top surface slot. Also insert 1 T-nut in the lower slot of the front surface.



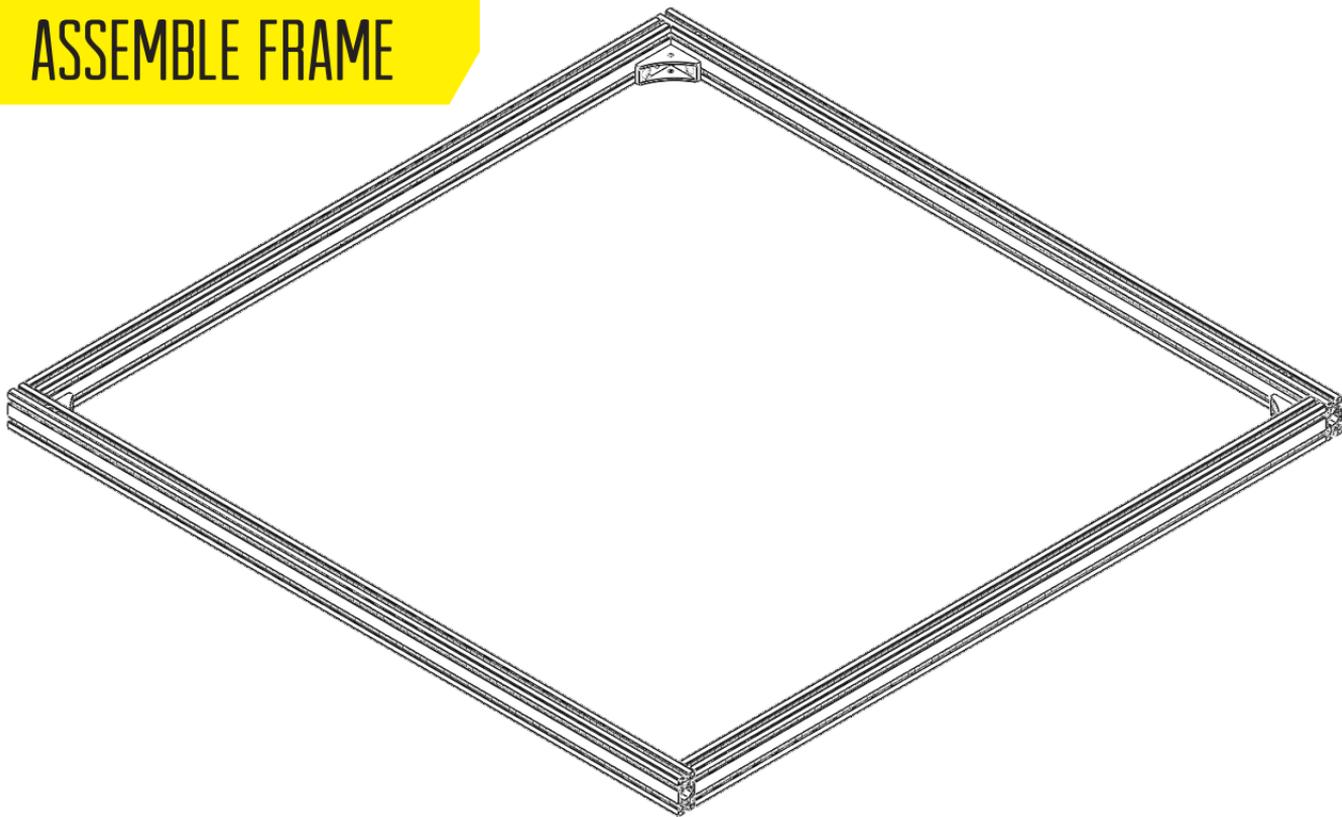
**A5**

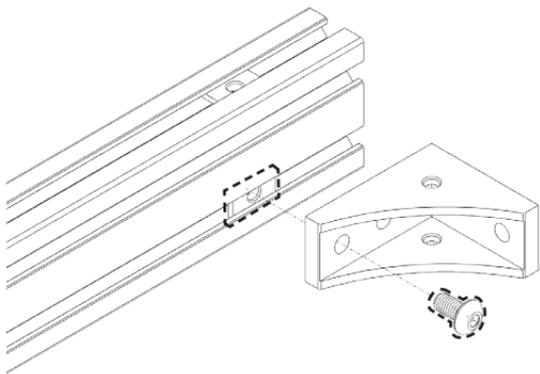
Do this for both ends of the common rail. The common rail should have 4 T-nuts total.

**A6**

Repeat for the other common rail

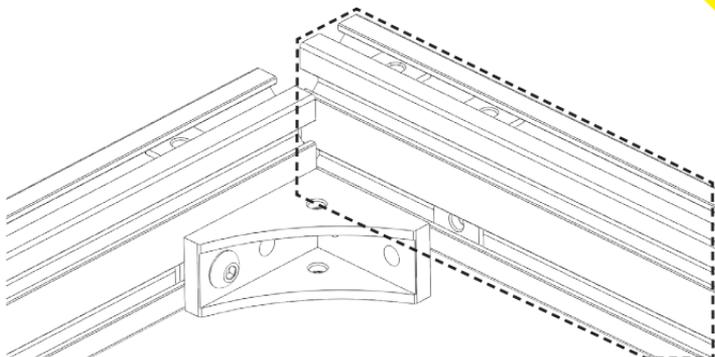
ASSEMBLE FRAME





B1

Loosely fasten a corner angle bracket to each end of the common rail as shown. Use a M5x10mm BHCS to attach to the T-nut. This will also help distinguish the common rails from the cross rails now. Use 2 brackets per common rail and make sure the brackets can still slide. Refer to BOM @ beginning for screw images



B2

Place the cross rail end over the common rail end as shown. Ways to identify the cross rails: They should have been set aside at the beginning, they are longer than the common rail (refer to BOM), common rails should have brackets fastened

B3



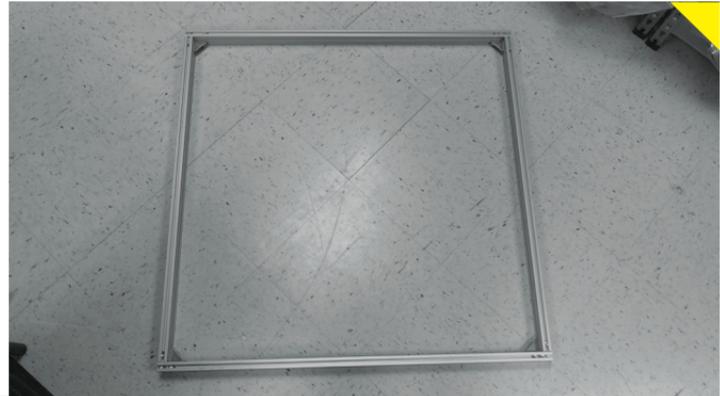
Align the cross rail T-nut to the bracket hole and fasten with M5x10mm BHCS. Refer to BOM to identify parts. Attach another common rail to the other end of the cross rail. Fasten the same way as before. Check to make sure the cross rail “captures” the common rail end as shown. Also check the orientation of both rails and the attached brackets

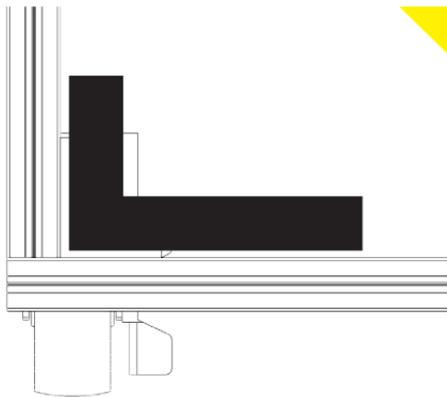


B4



Finally, use 2 M5x10mm BHCS and the remaining two corner angle brackets to attach the other cross rail to the common rail ends. Again, pay attention to orientation





B5

Use the precision square to square the frame assembly

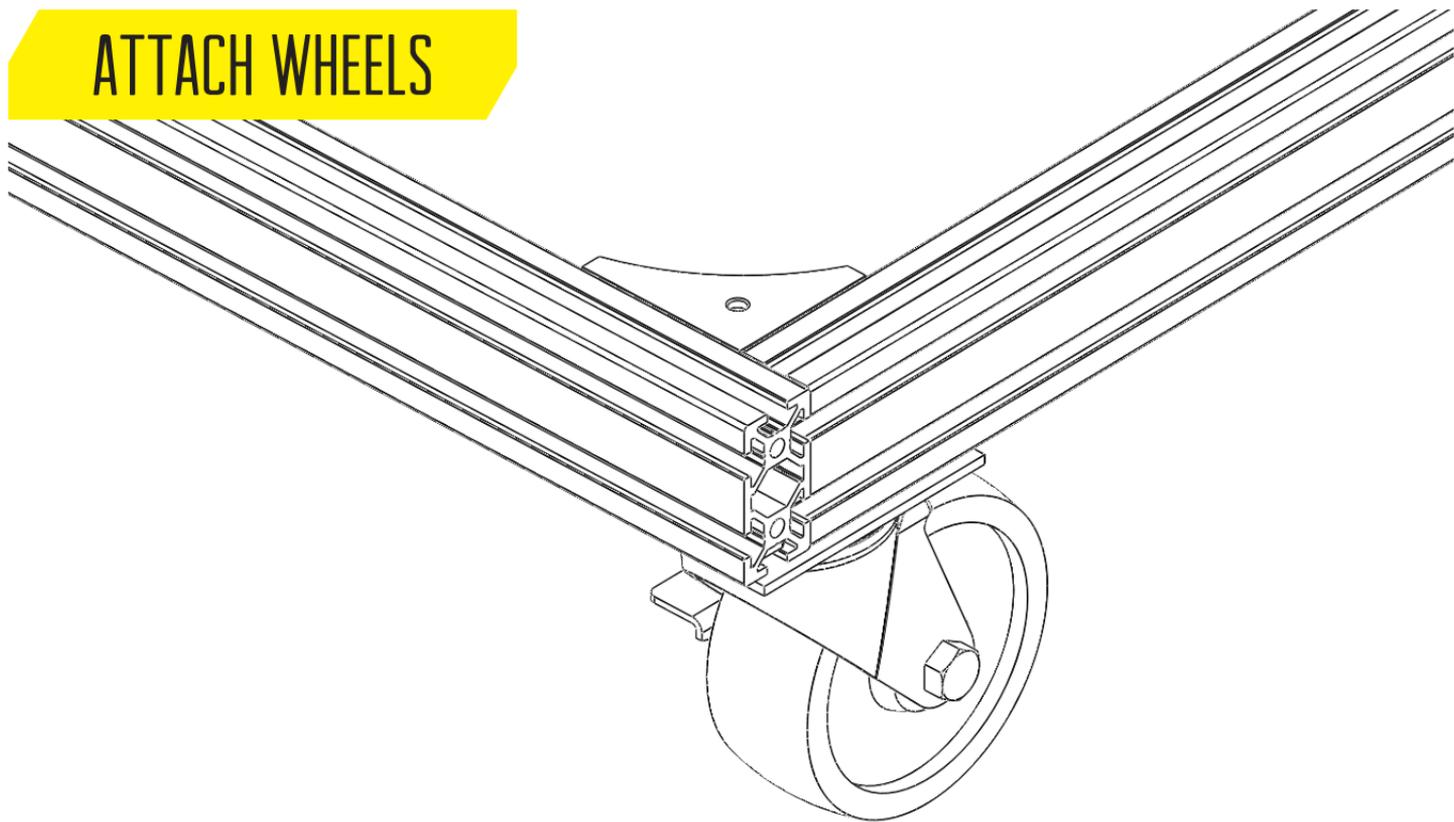


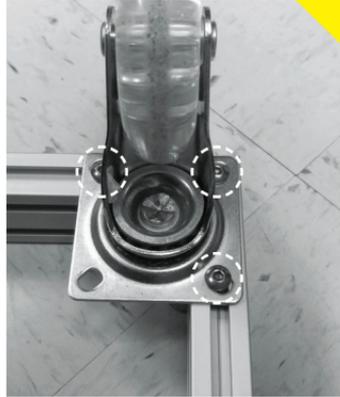
B6



Fully hand tighten all bracket screws

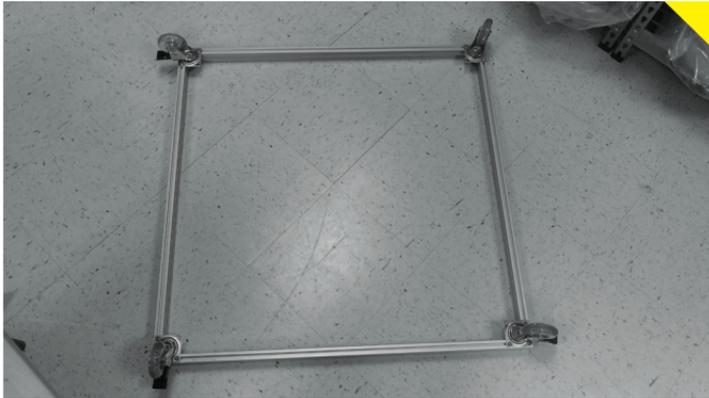
ATTACH WHEELS





C1

At each corner of the frame assembly, align the T-nuts to the holes of one of the caster wheels. Fasten the caster wheel with 3 M5x8mm BHCS. *Refer to the BOM if needed*



C2

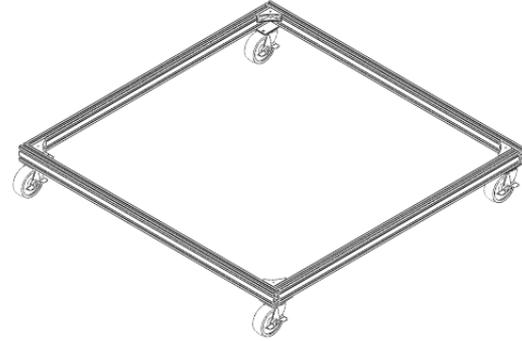
Repeat this for the 3 other caster wheels in the other corners

C3

Flip the assembly over. It is now ready for use.

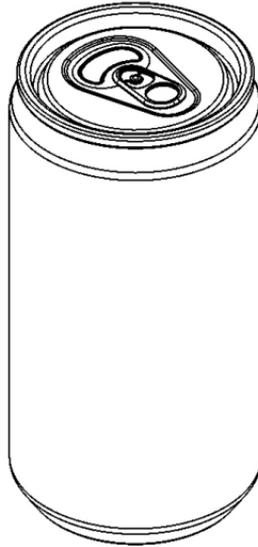
C4

Please look over your completed kit and make sure everything has been assembled correctly. If you have further questions, please refer to the video instructions (search “re3D Tech” on YouTube and find “Wheeled Platform” video) or contact us through the references listed in the Conclusion.

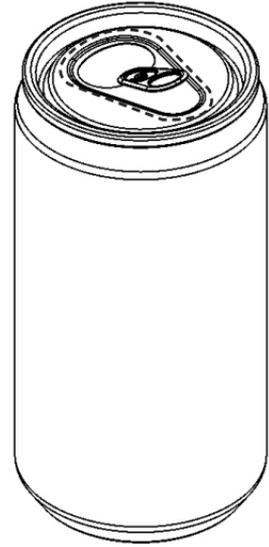


NOW IS A GOOD STOPPING POINT...

Acquire beverage of
your choice.



Actuate pull tab.
Consume.



CONCLUSION

CONGRATULATIONS! YOU HAVE NOW COMPLETED THE SHORT WHEELED PLATFORM RETROFIT ON YOUR GIGABOT®.

We are confident that you will find this upgrade very helpful in your every day use of the Gigabot®, but please do not hesitate to contact us for any further issues or questions. Feedback on assembly instructions, support, and other aspects of your experience are welcome. Reach out to us at:

WIKI : wiki.re3d.org

EMAIL : support@re3d.org

PHONE : 512-730-0033

Happy printing!

From the re:3D Inc.® team

REFERENCES & DOCUMENTS

**SHORT WHEELED
PLATFORM MANUAL PDF :**

http://wiki.re3d.org/index.php?title=Retrofit_Instructions

**re:3D Inc.® YouTube
CHANNEL :**

<https://www.youtube.com/user/GigaBot3D>



re:3D Inc.® | re3d.org | 2100 Space Park Dr, STE 102 | 48 East Ave, STE F
Houston, TX 77058 | Austin, TX 78701