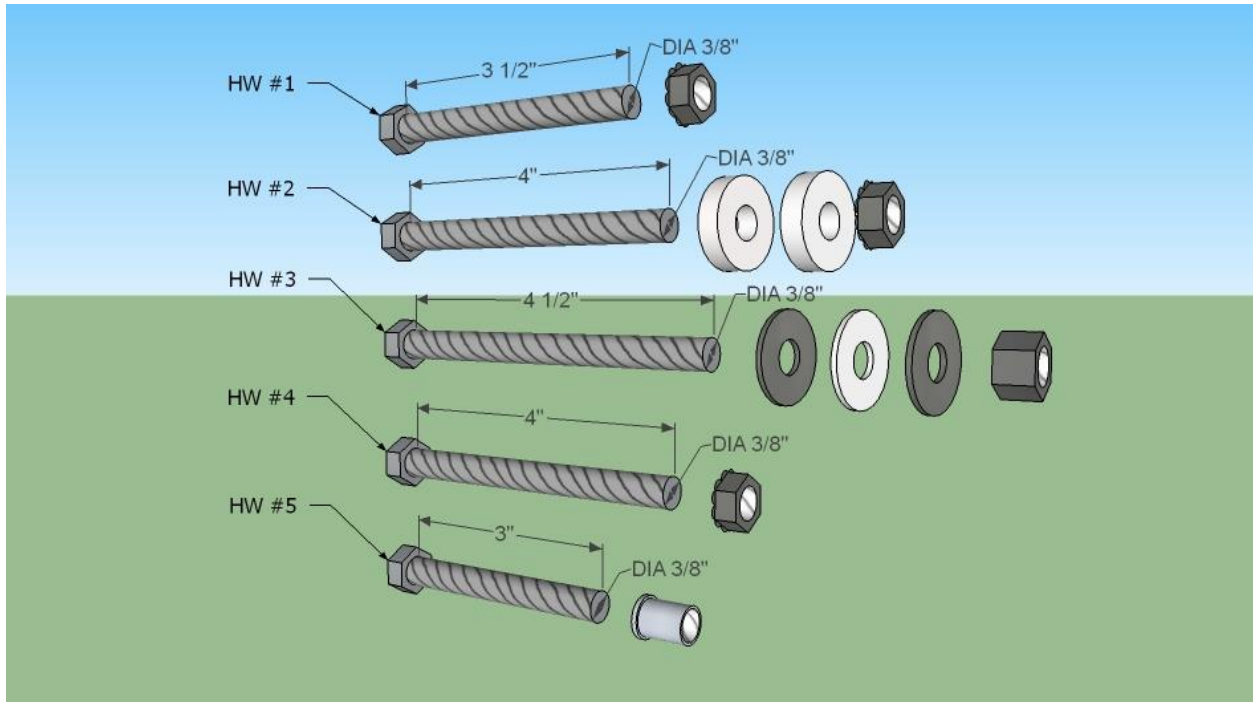




## Fabrack Variable Ground Rack Assembly Manual



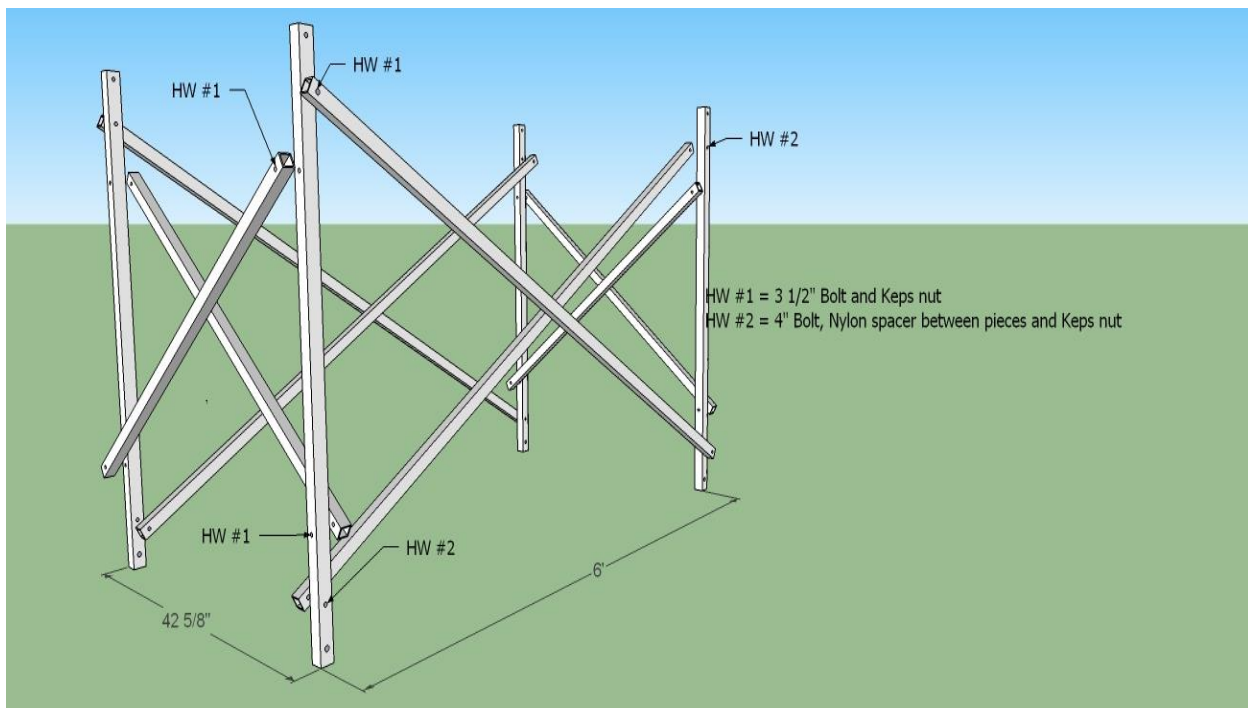
## Material definitions



1.25 Inch	Qty	Description	length/in
	4	Ribs	77.75
	4	X-Brace Small	51.5
	4	X-Brace Large	82.875
	1	Stabilizer/ spreader	42.625
1.5 Inch			
	1	Handle	47
	4	Legs	48
	2	Locking Arm	88
	2	Upper Pivot Arm Ext	50.5
2 Inch			
	2	Backbone	114
	2	Lower Pivot Arm	46.5

## Step #1

The four legs are positioned in a vertical manner with the ½” holes at the bottom and parallel to the structural channel. Short cross bracing should be positioned the same way on every frame for aesthetic purposes. Long cross bracing should be positioned so that the interior pair begins low on the front legs and high on the back legs. Four inch bolts will be required for the interior long cross braces, placing two thick nylon spacers between the leg and the cross brace to allow clearance later in the build.

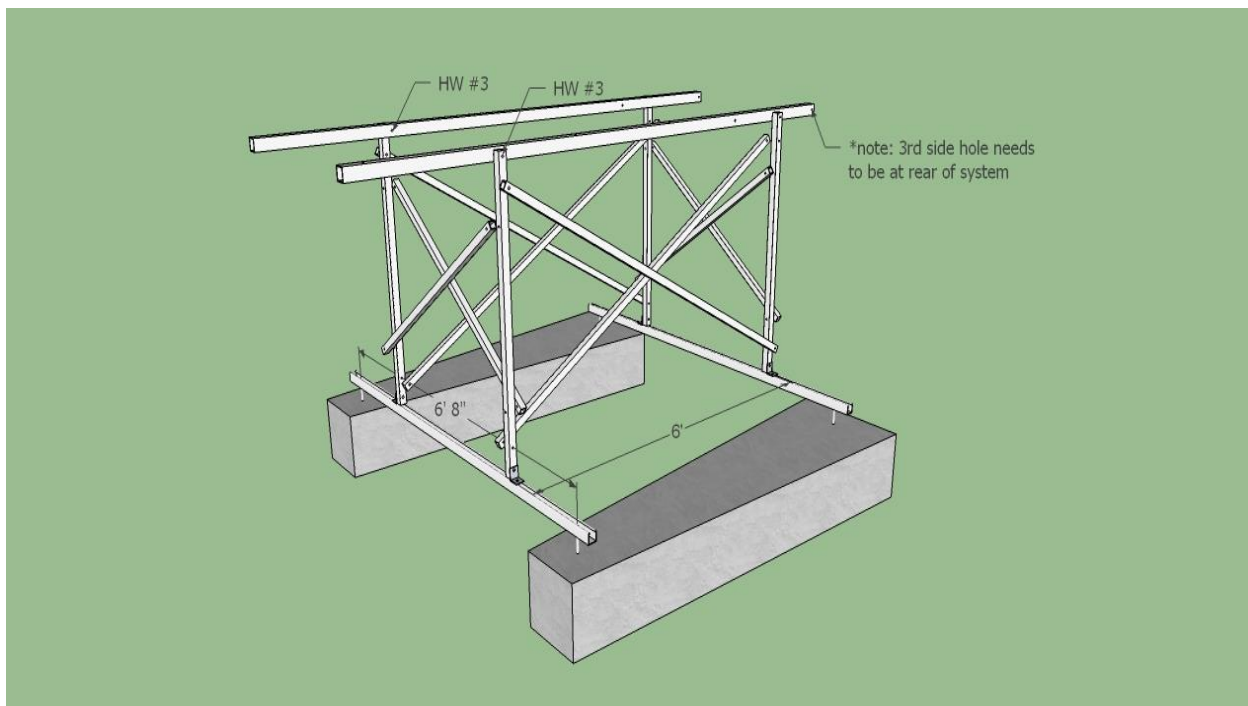




## Step #2

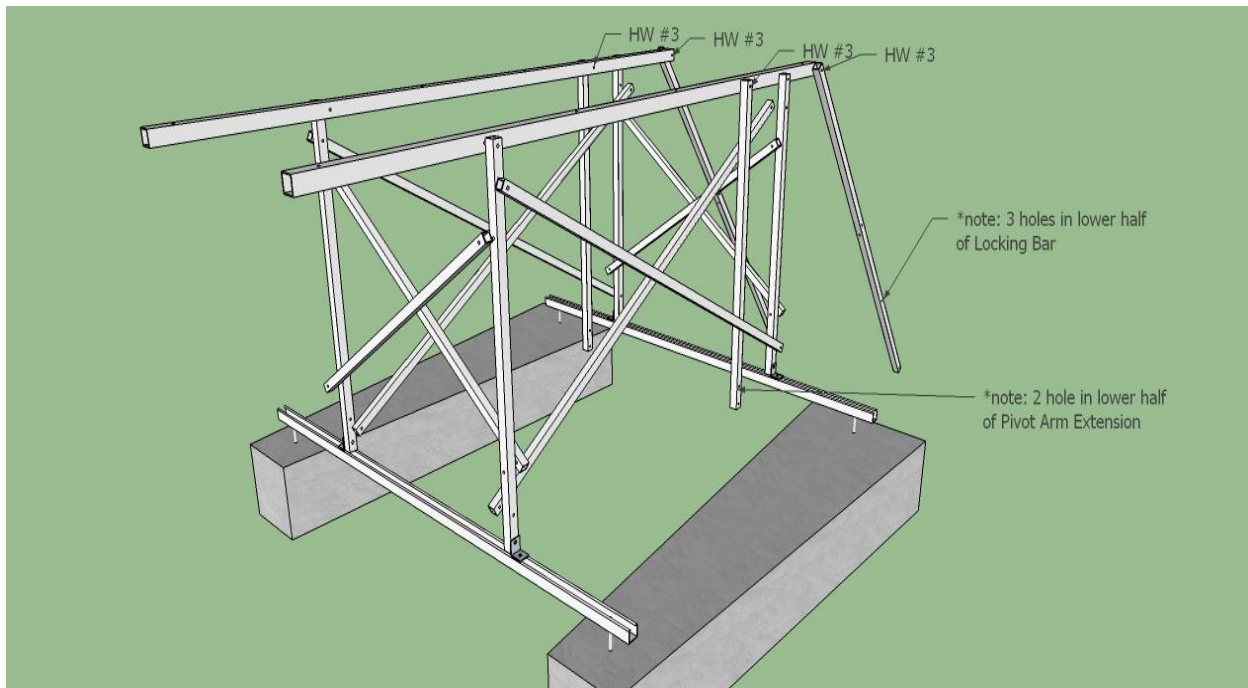
Positioning the rack on the structural channel and securing it using “L” brackets, ensuring that the first rack is squared and centered between base connection points. The rest of the rack spacing can be measured out using 80” centers.

The 2” backbone can be connected to the top of the front legs using 4 ½” bolts and nylok nuts with metal washers to the exterior and a nylon washer between the backbone and the leg. The 3rd hole that is 3/4” from the end of the backbone needs to be positioned at the rear of the rack.



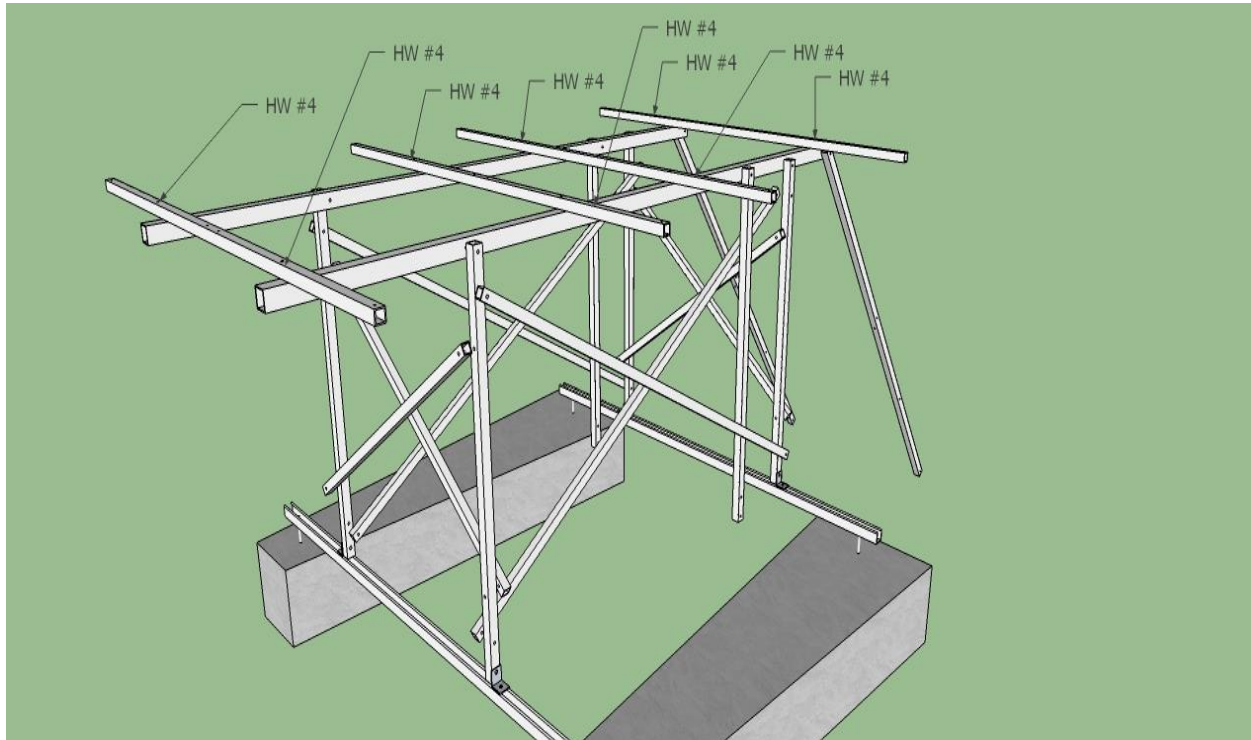
### Step #3

The upper pivot arms and the locking bars can now be connected using 4 ½” bolts and nylok nuts with metal washers to the exterior and a nylon washer between the pieces and the backbone. For the upper pivot arms it is important ensure that the end with the two holes is positioned towards the ground. For the locking bars it is important to ensure that the half with the three holes be positioned towards the ground.



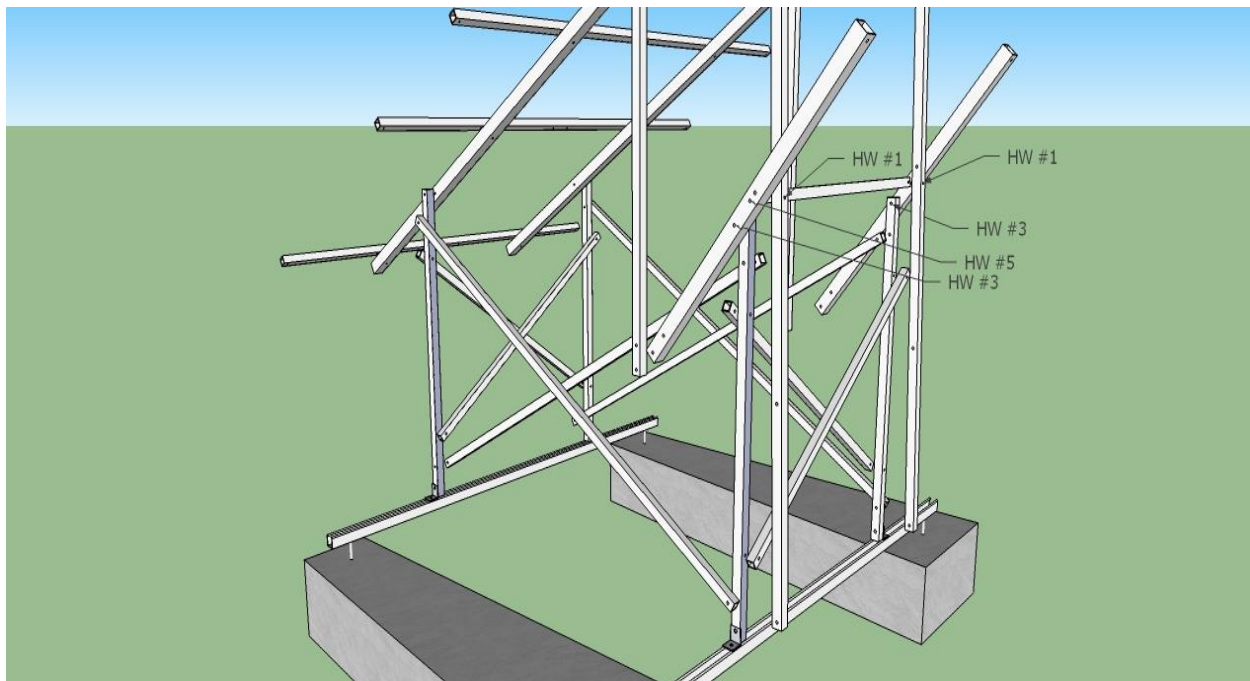
## Step #4

The ribs can now be connected using 4" bolts with keps nuts to the backbones.



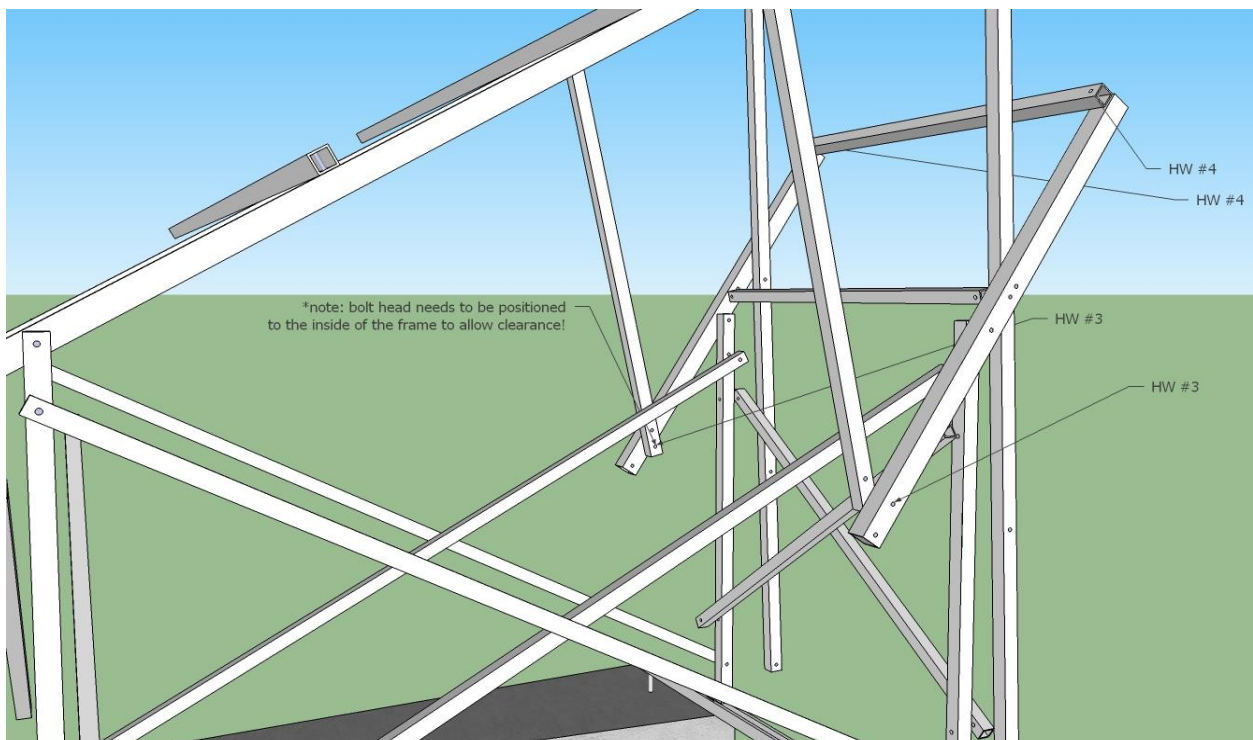
## Step #5

The panel table can now be raised up to allow positioning of the lower 2" pivot arms. Positioning the end with the two hole towards the middle of the rack locate the next hole on the lower pivot arm. Using this hole connect the lower pivot arm to the top of the rear legs using 4 ½" bolts and nylok nuts with metal washers to the exterior and a nylon washer between the lower pivot arm and the leg. The 3" bolts with the insert nuts will act a guide pin when inserted through the next hole on the lower pivot arm. The 1 ¼" spreader bar can also be connected to the interior side of the locking bars using 3 ½" bolts and keps nuts.



## Step #6

The upper and lower pivot arms can now be connected; it can be easier to do this if you rest the spreader bar of the locking bars on top of the guide pins on the lower pivot arms. Use 4 ½" bolts and nylok nuts with metal washers to the exterior and a nylon washer between the lower pivot arm and the upper pivot arms. It is important to ensure that the bolt head is positioned to the interior of the system to allow for clearance gained earlier with spacers in the long cross bracing. The handle can be attached to the lower pivot arms using 4" bolts and keps nuts.





## Step #7

The panels can now be installed using the ¼" bolts and keps nuts. The bolts should be inserted through the holes provided in the ribs and the manufacturer provided mounting holes in the panels, with the keps nuts being situated in frame gap of the panel frame.

