

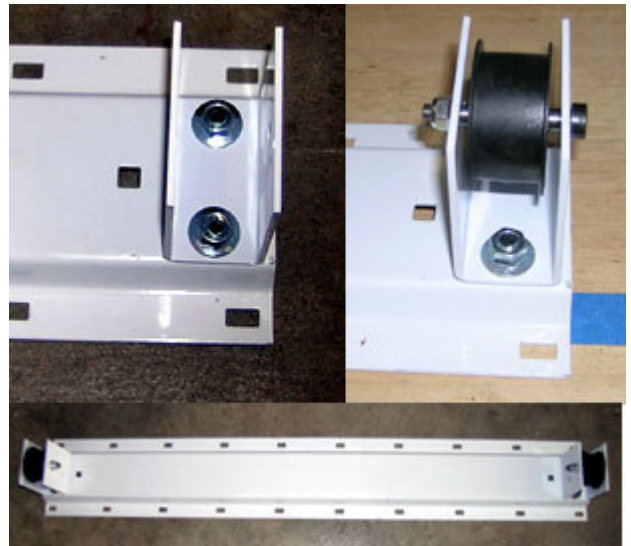
Tools needed to install ONRAX Ascension series:

- 9/16", 1/2", 7/16" Wrenches
- # 2 Phillips head bit
- 3/16" Allen wrench
- 3/16" drill bit (7/16" may be needed)
- 7/16" nut driver
- Electric drill / driver
- 12" of heavy duty tape
- Eye protection
- Rubber Mallet
- Ladder
- Stud Finder
- Pencil
- Measuring Tape

The ONRAX Ascension series is designed to only be installed by trained and qualified technicians. Failure to install the unit properly could result in damage, injury or death.

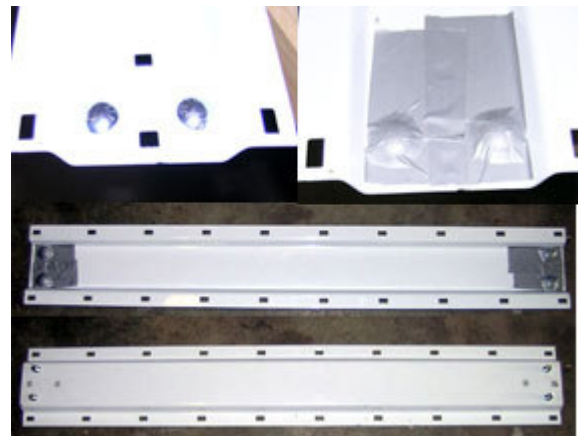
1. Mark the layout of your overhead supports in your ceiling. Look at mounting diagrams and determine the location of the Ascension unit and specifically the ceiling mount brackets. A layout sketch of the overhead support structure makes this job easier.

2. Take one ceiling bracket and mount the two U shaped pulley wheel holders (one on each end). Use the 3/8" x 3/4" long carriage bolts and flange nuts. These pulley wheel holders will be about 35" apart on the ceiling bracket and mounted so the wheel will be perpendicular to the bracket. Mount the pulley wheels into the holders using the 3/8" x 1.75" shoulder bolts and 3/8" nylock nuts.

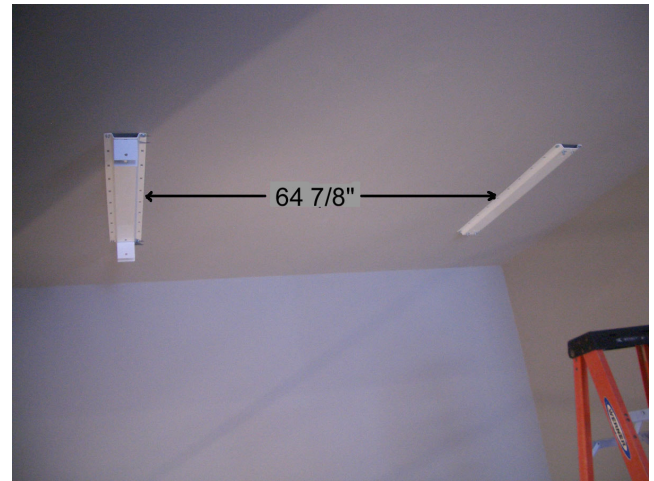


3. Mount that ceiling bracket to the ceiling where you want one end of the rack. The ceiling bracket must go into at least 2 overhead supports with 2 lag bolts per support, minimum of 4 per ceiling bracket. The lag bolts must hit support within 12 inches of each end. See attached layout diagram.

4. Take the other ceiling bracket and insert two 3/8" x 3/4" carriage bolts in each end. Use the same hole locations that we used on the first bracket. You should put some tape on the back of these to aid in installation and to keep them from getting knocked out when attaching the parts to them.



5. Mount the second ceiling bracket 64 7/8" from the first. The ceiling bracket must go into at least 2 overhead supports with 2 lag bolts per support. The lag bolts must hit support within 12 inches of each end.



6. The motor should have the white mounting plate already attached to it. Lift the motor and attach it to the two bolts on one end of the ceiling mount brackets. The motor needs to be at a certain location. When looking at the rack from the front (assuming the 6' length runs parallel to the front of the unit) the motor needs to be in the front right corner or back left corner.



7. Mount the drive shaft and shaft receiver. Lift up the drive shaft and slip it onto the hex motor shaft. At the other end of the drive shaft slide the shaft receiver mount over the end. Then bolt the shaft receiver to the ceiling mount bracket with the 2 bolts that you placed into the ceiling bracket prior to install.



8. Build the bottom of the unit as any standard ONRAX unit.
9. Plug in the motor and run the motor down until all the strap is off the spool and you can see the strap attachment. Make sure all 4 straps are all the way off the spool and you see all 4 attachment points. You should see a screw holding each of the straps to the spool. You may need to manually unwind or wind individual straps to make sure they are all off the spool. **This is critical to ensure even spooling and lifting for all 4 corners**
10. **The 2 longer straps then go to the other end of the unit and over the spools. The outside straps drop straight down.**
11. Run the motor in the up direction to attain 3 wraps of strap around the spool.
12. Put the lower frame work under the unit.

13. Attach the two straps on the ceiling bracket with the pulley wheels first. Put one flat metal slide on each strap approximately 18" from the end. Then run the strap through the 3rd visible key hole from the bottom (starting from the inside) then back through the 2nd key hole, then up through the flat metal slide. See attached "Strap attachment" sheet.
14. Attach the strap on the non motor side of the motor mounted ceiling bracket in the same manner as above.
15. For the strap closest to the motor we need to slide the strap through the donut shaped black limit switch activator. Then slide the clamp buckle on the strap with the clamp towards the donut. Slide this up about 2' and clamp. Then proceed as in step 13 with the flat metal slide and attachment.
16. Run the motor in the up direction until you get close to lifting the frame. You should get several wraps around the spool. Now adjust each corner so that the straps are equal and will lift the platform in a level manner. After the unit is run up and down a couple times or has weight applied it may need to be adjusted.
17. Slide the donut into position so it hits the limit switch before the base frame hits the ceiling. The upper limit switch is an emergency stop and is not meant to be used as an everyday stop. Care should be taken to stop the unit before the switch is activated.
18. After the platform has been leveled the ends of the straps should then be run back through the flat metal slide to prevent a chance of slippage.
19. Mount the control box in a location so that the operator is not under the rack when it is in motion. Route the control cord and power cord to prevent interference with the operation of the unit.

Important installation notes and trouble shooting

1. Spend the time at the beginning to layout the ceiling bracket installation. This will save time during the installation and ensure a smooth running unit. Ceiling bracket placement is critical to the success of the unit.
2. The straps going to the far end of the rack go off the bottom of the spool. The straps going straight down come off the back of the spool.
3. The spooling of the strap is critical to keeping the platform level. Make sure all straps have the same number of wraps around the spool. Back the straps all the way off the spool so that you can see the connections of all four straps.