# Ergonomics

<table>
<thead>
<tr>
<th>Non-Ergonomic Movements in the old design.</th>
<th>Possible list of Solutions</th>
<th>Most Feasible Changes for the new Design</th>
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</table>
| 1. Long hours of standing and walking. Oil spilled under the build stand. | i. Use oil collection bucket/draining system.  
ii. Use antiskid/ ant fatigue mats.  
iii. Design process for maximum seated position | 1. Anti skid/ Anti fatigue mats placed on the sides of the build stand and next to the work surfaces. |
| 2. Sliding under frame on cardboard mat to work on the underside of the VECTRA | i. Use current method- cardboard sheet.  
ii. Rise level of Frame – work seated.  
iii. Work with horizontally oriented frame.  
iv. Use car creeper under the frame. | 2. Creeper with proper back support & trouble light to work under the frame. |
| 3. Lower rotor table used sometimes as temporary work surface. | i. Use alternative tables as work surface.  
ii. Raise the height of the rotor table to 3.5’  
iii. Have shorter chairs next to rotor table. | 3. Taller work surface so there is less bending. |
| 4. Tripping on the base of control panel next to the build stand. | i. Change location of panel in front of build stand  
ii. Have radio controlled panel .  
iii. Have control panel fixed to the wall. | 4. Build stand control panel on the wall. ( No tripping ) |
| 5. Frequent re-stocking of small parts from supermarket. | i. Dedicated employee for refilling cabinets.  
ii. More small inventory cabinets to fill -once per day or per week by VECTRA operator. | 5. More small inventory parts in cabinets , so there is less walking to supermarket. |
| 6. Short stairs (without railing) used to work on the top part of VECTRA frame. | i. Use current stairs and continue bending over the frame.  
ii. Use 2 new stairs with railings .  
iii. Lower the level of frame on the build stand | 6. Addition of 2 dedicated stairs with railings on the side. |