

Project Name: JIB TRANSFER BENCH
 Project Number: P14031

Date: 3/18/2014
 Revision: 1

Problem Number	Rating	Identifying & Selecting Problem PSP 1	Analyzing Problem PSP 2	Generating Potential Solutions PSP 3	Selecting & Planning Solution PSP 4	Implementing Solution PSP 5	Evaluating Solution PSP 6
1	MAJOR	LASCO PVC Wye fitting not sold in Lowe's Stores	Need to order online from McMaster for this LASCO fitting > more expensive and more difficult for end user	Design without this wye fitting, if possible or use a different brand fitting	Update PVC leg design in Solidworks and test using ANSYS	The wye fitting is needed --> Use NIBCO brand Wye fitting	NIBCO brand fitting works; purchased and used for building
2	ORDINARY	Flange and bushing measurements on McMaster not representative of the actual parts	Need to determine the actual delta from spec online	If delta is large call McMaster for replacement OR potentially eliminate from design	Test that screws work in PVC flange without bushings	Update SolidWorks model to eliminate bushings	
3	ORDINARY	PVC lengths for chair assy did not align correctly	Re-measure each of the lengths cut, which PVC length is wrong?	Re-cut PVC length	One PVC piece was cut too short	Re-cut a new 4.5" PVC length from the leftover PVC	Re-fit PVC arm assembly to ensure aligned fit
4	MAJOR	The opening under the bilge port is different than the other Sonar's we have measured (there are stiffeners)	Look at SolidWorks model to determine if the securing mechanism is impacted	Current securing mechanism's position will not work with stiffeners -> move the AI stock or consider re-design	move one aluminum sock bar ~1" towards the center to prevent contact with the stiffeners	Update SolidWorks model and re-draw the holes on the base	
5	MAJOR	When PVC chair is installed the bearing has a "rough spot" when rotated	Determine there is not enough distance between the bottom base and the bearing, so the rotation is not smooth	How can we slightly increase the distance between the base and bearing	Use washers between bearing and base to increase distance	super glue two small washers together and place between bearing and base	re-install bearing to base and test rotation with user on PVC arm - it works!
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