

P8001 - Balance Training Bike - 5/15/08

Specification Number	Customer Need Number	Design Specification	Importance To Customer	Unit of Measure	Marginal Value	Ideal Value	Test
1	3,10,22, 7	Safe	9	Binary	Pass	Pass	Failure Modes and Effects Analysis - Counteract foreseeable hazards
2	1,2,5,16,18,19	Tilt Range	9	Degrees	0 - 8	0 - 15	Usable range to be tested on final prototype
3	1,2,5,16,18,19	Levels of Tilt	9	Levels	3	Infinite	
4	10,22	Upright Locked Position	9	Binary	Pass	Pass	Force test
5	1,2,5,16,18,19	Tilt Resistance Range	9	Lbs	0 - 150	0 to >150	
6	3,21	Auditory Feedback of Tilt	9	Decibels	50 - 80	25 - 80	
7	4, 17	Non-alternating Handle Bars	9	Binary	Pass	Pass	
8	10, 12	Seat Height Range (pedal to seat)	9	Inches	27 - 34	<27 to >34	
9	10, 13	Handlebar Height (vertical dist. - seat to handlebar)	9	Inches	9 - 10	<9 to >10	
10	10, 14	Handlebar Reach (horizontal dist. - seat to handlebar)	9	Inches	15 - 19	<15 to >19	
11	10	Cross member height	9	Inches	0 - 24	<12	
12	13	Bike Capacity	9	Lbs	90 - 300	90 - 300	
13	3,21	Visual Feedback of Tilt	3	Binary	Fail	Pass	Survey (size of light / brightness)
14	7, 14	Portability - Force needed to transport bike	3	Lbs	51	<51	
15	11	Pedal Resistance	3	Ft-Lbs	Constant	Variable	
16	9, 12	Seat Size	9	Inches	>10	10 - 12	
17	6	Adjustment Tools	3	-	Basic Tools	Hand	
18	7, 20	Force needed to bring patient to Upright Locked Position	9	Lbs	51	<51	
19	6	Service Intervals	1	Frequency	Once/year	Never	
20	15	Color	1	Binary	Pass	Pass	Survey

Most Important



Least Important