Boundary Value Testing (Version 3)

Table 1: Variables and Values Tested (Version 3)

Variables	Minimum	Maximum	Nominal
Barrel Pose (x, y, z)	Negative Infinity	Positive Infinity	0,0,0
Radius	0	1	0 > radius <= 0.25
Mass	0	51	0 > mass <= 50
Initial Speed	0	Positive Infinity	10
External Force (x, y, z)	Negative Infinity	Positive Infinity	100, 100, 0

Table 2: Variables and Values Tested (Version 3)

Case	Barrel Pose (x, y, z)	Radius	Mass	Initial Speed	External Force (x, y, z)	Expected and tested Results (Position – x, y, z)
1	**Negative Infinity**	Nominal	Nominal	Nominal	Nominal	Not Null
2	**0,0,0**	Nominal	Nominal	Nominal	Nominal	98.52,194.76,0
3	**Positive Infinity**	Nominal	Nominal	Nominal	Nominal	Not Null
4	Nominal	**0**	Nominal	Nominal	Nominal	Throws Illegal Argument Exception
5	Nominal	**0.25**	Nominal	Nominal	Nominal	98.52,194.76,0
6	Nominal	**1**	Nominal	Nominal	Nominal	Throws Illegal Argument Exception
7	Nominal	Nominal	**0**	Nominal	Nominal	Throws Illegal Argument exception
8	Nominal	Nominal	**10**	Nominal	Nominal	98.52,194.76,0
9	Nominal	Nominal	**51**	Nominal	Nominal	Throws Illegal Argument Exception
13	Nominal	Nominal	Nominal	**0**	Nominal	Null
14	Nominal	Nominal	Nominal	**10**	Nominal	98.52,194.76,0
15	Nominal	Nominal	Nominal	**Positive Infinity**	Nominal	Not Null
16	Nominal	Nominal	Nominal	Nominal	**Negative Infinity**	Not Null
17	Nominal	Nominal	Nominal	Nominal	**100, 100, 0**	98.52,194.76,0
18	Nominal	Nominal	Nominal	Nominal	**Positive Infinity**	Not Null