

Test #	Part Location	# of Magnents	Speed (%)
1	Pushed into bottom left corner	2	1
2	Pushed into bottom right corner	2	1
3	Pushed into bottom right corner	2	1
4	Pushed into bottom right corner	2	1
5	Pushed into bottom right corner	2	1
6	Pushed into bottom right corner	2	1
7	Pushed into bottom right corner	2	1
8	Pushed into bottom right corner	2	1
9	Pushed into bottom right corner	2	1
10	Pushed into bottom right corner	2	1
11	Pushed into bottom right corner	2	1
12	Pushed into bottom left corner	2	1
13	Pushed into bottom left corner	2	1
14	Pushed into bottom left corner	2	1
15	Pushed into bottom left corner	2	1
16	Pushed into bottom left corner	2	1
17	Pushed into bottom left corner	2	1
18	Pushed into bottom left corner	2	1
19	Pushed into bottom left corner	2	1
20	Pushed into bottom left corner	2	1
21	Pushed into bottom left corner	2	7
22	Pushed into bottom left corner	2	7
23	Pushed into bottom left corner	2	7
24	Pushed into bottom left corner	2	7
25	Pushed into bottom left corner	2	7
26	Pushed into bottom left corner	2	7
27	Pushed into bottom left corner	2	7
28	Pushed into bottom left corner	2	7
29	Pushed into bottom left corner	2	7
30	Pushed into bottom left corner	2	7
31	Pushed into top left corner	2	7
32	Pushed into top left corner	2	7
33	Pushed into bottom right corner	2	7
34	Pushed into bottom right corner	2	7
35	Pushed into bottom left corner	2	7
36	Pushed into bottom left corner	2	7
37	Pushed into bottom left corner	2	7
38	Pushed into bottom left corner	2	7
39	Pushed into bottom left corner	2	7
40	Pushed into bottom left corner	2	7
41	Pushed into bottom left corner	1 Big	7
42	Pushed into bottom left corner	1 Big	7
43	Pushed into bottom left corner	1 Big	7
44	Pushed into bottom left corner	1 Big	7

45	Pushed into bottom left corner	1 Big	7
46	Pushed into bottom left corner	1 Big	7
47	Pushed into bottom left corner	1 Big	7
48	Pushed into bottom left corner	1 Big	7
49	Pushed into bottom left corner	1 Big	7
50	Pushed into bottom left corner	1 Big	7
51	Pushed into top right corner	1 Big	7
52	Pushed into top right corner	1 Big	7
53	Pushed into top right corner	1 Big	7
54	Pushed into top right corner	1 Big	7
55	Pushed into top right corner	1 Big	7
56	Pushed into bottom right corner	1 Big	7
57	Pushed into bottom right corner	1 Big	7
58	Pushed into bottom right corner	1 Big	7
59	Pushed into bottom right corner	1 Big	7
60	Pushed into top left corner	1 Big	7
61	Pushed into top left corner	1 Big	7
62	Pushed into top left corner	1 Big	7
63	Pushed into top left corner	1 Big	7
64	Pushed into top left corner	1 Big	7
65	Pushed into top left corner	1 Big	7

yes\* Took the part with it  
yes\*\* Magnet slid down and took part with it  
no\* Lifted but ended in its spot

## Slipped/Spun/Straight

Slipped

Straight

Spun

Spun

Barley Slipped

Barley Slipped

Slipped

Slipped

Slipped

Straight

Slipped

Slipped

Slipped

Slipped

Spun

Slipped

slipped

spun

Straight

Slipped

Slipped

Slipped

Guided in

Guided in

Guided in

Guided in

Guided in

Guided in

Guided in

Guided in

Guided in

Guided in

Guided in

Guided in

straight in

slipped

straight in

slipped

slipped

straight

straight

slipped

slipped

slipped

slipped  
Straight  
Straight  
straight  
straight  
Straight  
straight  
Straight in  
slipped  
spun  
slipped  
straight  
straight  
straight  
straight  
straight  
straight  
slipped  
slipped  
slipped  
slipped  
slipped

### Lifted Part? Screwed in Fully?

yes	yes
yes	yes
no	no
yes	yes
no	yes
no	yes
yes	yes
yes*	yes
yes	no
no	yes
yes	yes
yes	yes
no	no
no	no
yes*	yes
yes*	yes
no	no
no	no
yes	no
yes**	yes
no	no
yes*	no
yes	yes
yes	yes
yes*	no
yes	yes
yes*	yes
yes	yes
yes	yes
yes	yes
yes	yes
yes	yes
yes	yes
yes	yes
no	yes
no	yes
yes	yes
no	yes
no	yes
no*	yes
no	yes

no	yes
yes	yes
no	yes
no	yes
no	yes
yes	yes
yes	yes
no	yes
no	yes
no	yes
yes	yes
no	yes
no	yes
no	yes
no	yes
no	yes
no	yes
no	yes
yes	yes
yes	yes
no	yes
no	yes

## Notes

Original Code

Modified code with speed down about the same. Speed up fast ,speed set at 75

Modified code with speed down the same. Speed up even faster set at 90

Countersunk hole

Made countersink slightly bigger