

| Test # | Part Location                   | # of Magnents | Speed (%) | Slipped/Spun /Straight | Lifted Part? | Screwed in Fully? | Notes  |
|--------|---------------------------------|---------------|-----------|------------------------|--------------|-------------------|--|
| 1      | Pushed into bottom left corner  | 2             |           | 1 Slipped              | yes          | yes               | Original Code  |
| 2      | Pushed into bottom right corner | 2             |           | 1 Straight             | yes          | yes               |  |
| 3      | Pushed into bottom right corner | 2             |           | 1 Spun                 | no           | no                |  |
| 4      | Pushed into bottom right corner | 2             |           | 1 Spun                 | yes          | yes               |  |
| 5      | Pushed into bottom right corner | 2             |           | 1 Barley Slipped       | no           | yes               |  |
| 6      | Pushed into bottom right corner | 2             |           | 1 Barley Slipped       | no           | yes               |  |
| 7      | Pushed into bottom right corner | 2             |           | 1 Slipped              | yes          | yes               |  |
| 8      | Pushed into bottom right corner | 2             |           | 1 Slipped              | yes*         | yes               |  |
| 9      | Pushed into bottom right corner | 2             |           | 1 Slipped              | yes          | no                |  |
| 10     | Pushed into bottom right corner | 2             |           | 1 Straight             | no           | yes               |  |
| 11     | Pushed into bottom right corner | 2             |           | 1 Slipped              | yes          | yes               |  |
| 12     | Pushed into bottom left corner  | 2             |           | 1 Slipped              | yes          | yes               |  |
| 13     | Pushed into bottom left corner  | 2             |           | 1 Slipped              | no           | no                |  |
| 14     | Pushed into bottom left corner  | 2             |           | 1 Slipped              | yes          | yes               |  |
| 15     | Pushed into bottom left corner  | 2             |           | 1 Spun                 | yes          | yes               |  |
| 16     | Pushed into bottom left corner  | 2             |           | 1 Slipped              | no           | no                |  |
| 17     | Pushed into bottom left corner  | 2             |           | 1 slipped              | no           | no                |  |
| 18     | Pushed into bottom left corner  | 2             |           | 1 spun                 | yes*         | yes               |  |
| 19     | Pushed into bottom left corner  | 2             |           | 1 Straight             | yes*         | yes               |  |
| 20     | Pushed into bottom left corner  | 2             |           | 1 Slipped              | no           | no                |  |
| 21     | Pushed into bottom left corner  | 2             |           | 7 Slipped              | no           | no                | Modified code with speed down about the same. Speed up fast ,speed set at 75 |
| 22     | Pushed into bottom left corner  | 2             |           | 7 Slipped              | yes          | no                |  |
| 23     | Pushed into bottom left corner  | 2             |           | 7 Guided in            | yes**        | yes               |  |
| 24     | Pushed into bottom left corner  | 2             |           | 7 Guided in            | no           | no                |  |
| 25     | Pushed into bottom left corner  | 2             |           | 7 Guided in            | yes*         | no                |  |
| 26     | Pushed into bottom left corner  | 2             |           | 7 Guided in            | yes          | yes               |  |
| 27     | Pushed into bottom left corner  | 2             |           | 7 Guided in            | yes          | yes               |  |
| 28     | Pushed into bottom left corner  | 2             |           | 7 Guided in            | yes*         | no                |  |

|    |                                 |       |               |      |     |
|----|---------------------------------|-------|---------------|------|-----|
| 29 | Pushed into bottom left corner  | 2     | 7 Guided in   | yes  | yes |
| 30 | Pushed into bottom left corner  | 2     | 7 Guided in   | yes* | yes |
| 31 | Pushed into top left corner     | 2     | 7 Guided in   | yes  | yes |
| 32 | Pushed into top left corner     | 2     | 7 Guided in   | yes  | yes |
| 33 | Pushed into bottom right corner | 2     | 7 Guided in   | yes  | yes |
| 34 | Pushed into bottom right corner | 2     | 7 Guided in   | yes  | yes |
| 35 | Pushed into bottom left corner  | 2     | 7 straight in | yes  | yes |
| 36 | Pushed into bottom left corner  | 2     | 7 slipped     | yes  | yes |
| 37 | Pushed into bottom left corner  | 2     | 7 straight in | yes  | yes |
| 38 | Pushed into bottom left corner  | 2     | 7 slipped     | no   | yes |
| 39 | Pushed into bottom left corner  | 2     | 7 slipped     | no   | yes |
| 40 | Pushed into bottom left corner  | 2     | 7 straight    | yes  | yes |
| 41 | Pushed into bottom left corner  | 1 Big | 7 straight    | no   | yes |
| 42 | Pushed into bottom left corner  | 1 Big | 7 slipped     | no   | yes |
| 43 | Pushed into bottom left corner  | 1 Big | 7 slipped     | no*  | yes |
| 44 | Pushed into bottom left corner  | 1 Big | 7 slipped     | no   | yes |
| 45 | Pushed into bottom left corner  | 1 Big | 7 slipped     | no   | yes |
| 46 | Pushed into bottom left corner  | 1 Big | 7 Straight    | yes  | yes |
| 47 | Pushed into bottom left corner  | 1 Big | 7 Straight    | no   | yes |
| 48 | Pushed into bottom left corner  | 1 Big | 7 straight    | no   | yes |
| 49 | Pushed into bottom left corner  | 1 Big | 7 straight    | no   | yes |
| 50 | Pushed into bottom left corner  | 1 Big | 7 Straight    | yes  | yes |
| 51 | Pushed into top right corner    | 1 Big | 7 straight    | yes  | yes |
| 52 | Pushed into top right corner    | 1 Big | 7 Straight in | no   | yes |
| 53 | Pushed into top right corner    | 1 Big | 7 slipped     | no   | yes |
| 54 | Pushed into top right corner    | 1 Big | 7 spun        | no   | yes |
| 55 | Pushed into top right corner    | 1 Big | 7 slipped     | yes  | yes |
| 56 | Pushed into bottom right corner | 1 Big | 7 straight    | no   | yes |
| 57 | Pushed into bottom right corner | 1 Big | 7 straight    | no   | yes |
| 58 | Pushed into bottom right corner | 1 Big | 7 straight    | no   | yes |
| 59 | Pushed into bottom right corner | 1 Big | 7 straight    | no   | yes |
| 60 | Pushed into top left corner     | 1 Big | 7 straight    | no   | yes |

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

Countersunk hole

Made countersink slightly bigger

|    |                             |       |           |
|----|-----------------------------|-------|-----------|
| 61 | Pushed into top left corner | 1 Big | 7 slipped |
| 62 | Pushed into top left corner | 1 Big | 7 slipped |
| 63 | Pushed into top left corner | 1 Big | 7 slipped |
| 64 | Pushed into top left corner | 1 Big | 7 slipped |
| 65 | Pushed into top left corner | 1 Big | 7 slipped |

|     |     |
|-----|-----|
| no  | yes |
| yes | yes |
| yes | yes |
| no  | yes |
| no  | yes |

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