| User Story / Requirement ID | User Story/Requirement Under Test |
|---|---|
| 01 | Core XY Calibration |
| **Is it valid?** | |
| yes | |
| **If not valid, what is the new/Extra information from Marketing/Product Owner?** | |
| | |

| Test Case ID | Test Case Name |
|---|---|
| 01 | ·      Correct Movement from Core XY |
| Preconditions | Open Serial Terminal in Computer<br><br>Circuit Connected Appropriately<br><br>Serial Communication Module Connected<br><br>Program Compiled and Debugged<br><br>Stepper Motor and Driver Connected<br><br>Core XY Mechanically Assembled |
| Inputs | Keyboard to Serial Terminal<br><br>Serial Communications Module |

| Test Case Steps | | |
|---|---|---|
| **Step Number** | **Step description** | **Expected Result** |
| **1** | Relate distance to each step the motor takes. | Each step from the stepper motor should equate to the solenoid moving less than a millimeter. |
| **2** | Get solenoid cart to move smoothly | Distances should match across the system and close to no vibration should be recorded. |
| **3** | Move cart with manual commands. | The solenoid holder should move in 4 directions with no problems. |
| **Estimated Time** | 5 hours | |