|  |  |  |
| --- | --- | --- |
| **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  Circuit Connected Appropriately  Serial Communication Module Connected  Program Compiled and Debugged  Stepper Motor and Driver Connected  Core XY Mechanically Assembled | |
| Inputs | Keyboard to Serial Terminal  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 |  |