**6.7.3 N1 and N2 Stroke Check**

|  |  |  |  |
| --- | --- | --- | --- |
| Description | Actual location N1 | Actual location N2 | Pass/Fail |
| N1 and N2 at NULL (c) |  |  |  |
| Pin to pin Length is 16.732 +/- TBD (ins) (c) | Pin to Pin Length | |  |
| <INCHES> | |  |
| N2 at -0.575 ins from Null N1 at +1.725 ins from Null (using M2 and M1 motor) (e f) |  |  |  |
| N1 and N2 at NULL (using M1 and M2 motor) (g h) |  |  |  |
| N1 at -0.575 ins from Null N2 at +1.725 ins from NULL (using M1 and M2 motor) (I J) |  |  |  |
| N2 at Null (using M2 Motor) (K) |  |  |  |
| N2 at +1.725 from Null (using M3 motor) (r) |  |  |  |
| N2 at Null (using M3 motor) (S) |  |  |  |
| N1 at NULL and N2 at -0.575 ins (using M1 and M3 motors) (V W) |  |  |  |
| N1 and N2 at NULL (using M3 Motor) (x) |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Description **(Step y and bb)** | Expected | Tolerance | Motor 1 | Motor 2 | Motor 3 |
| Constant Velocity Extend | <EXPECT> |  | <VELOCITY> | <VELOCITY> | <VELOCITY> |
| Constant Velocity Retract | -<EXPECT> |  | <VELOCITY> | <VELOCITY> | <VELOCITY> |
| Delta between Motor Position and M position is less than +/- TDB |  |  |  |  |  |
| Standard Deviation | <STD> |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Description  **(Step cc)** | Expected Difference from Test rig encoder | Tolerance | Difference from Test rig encoder | Pass/Fail |
| Motor1 position + Motor 2 position = test rig truth encoder |  |  | <INCHES> | <RESULTS> |
| Motor1 position + Motor 3 position = test rig truth encoder |  |  | <INCHES> | <RESULTS> |
| M1 position + M2 position = test truth rig encoder |  |  | <INCHES> | <RESULTS> |
| M1 position + M3 position = test truth rig encoder |  |  | <INCHES> | <RESULTS> |
| Difference between Motor 2 position and Motor 3 position is < 0.01 ins |  |  | <INCHES> | <RESULTS> |
| Difference between M2 position and M3 position is < 0.01 ins |  |  | <INCHES> | <RESULTS> |
| Difference between Motor 1 position and M1 position is < 0.01 ins |  |  | <INCHES> | <RESULTS> |
| Difference between Motor 2 position and M2 position is < 0.01 ins |  |  | <INCHES> | <RESULTS> |
| Difference between Motor 3 position and M3 position is < 0.01 ins |  |  | <INCHES> | <RESULTS> |