Testing procedure

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| **Test procedure** | **Result** |
| 1. DB  * Run motors full speed independently one by one   + Use TP with regular harness and special code * Read decoders from DB (Serial.print on DB) |  |
| 1. Motor driver |  |
| * 1. Driver * Ramp-up speed and reverse using TP (visual check) |  |
| * 1. Deliver straight segment - basic * Execute hard coded straight segment (visual check, marks are rotating same speed) |  |
| * 1. Deliver straight segment – advanced * Execute hard coded straight segment * Manually break one wheel and check others are slowing down too (visual check marks) * Stop breaking and check speed is coming back to nominal (visual check) |  |
| * 1. Deliver rotation segment – basic * Execute hard coded rotation segment (manually rotate compass) |  |
| 1. MU / TP communication |  |
| * 1. Send initial segment * Send single MU hard coded straight segment – check reception with Serial.print * Send single MU hard coded rotation segment – check reception with Serial.print |  |
| * 1. Pause/play commands * Use a very long single segment test route (route 1) – need hard coding, not to start with pointing segment * Issue play/pause/play commands * Issue play/play and pause/pause commands |  |
| * 1. Change route command * Use “route 1” and a “route 2” 90° turn + long straight segment |  |
| * 1. Send next segment on demand * Execute test route composed of 3 straight segments and 30°, 45°, 90° turns |  |
| 1. MU routing algorithm |  |
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