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| **Signalling Like for Like Renewal Work Instruction** | **WO No.**  |
| **Page 1 of 2** |
| **Scope:** |  | **Date:** |
| **Team Leader:** |  | **Axle Counter Type:** |  |
| **Activity:** | **FADC R2 AEB101 BOARD LIKE FOR LIKE RENEWAL** |
| **Reference:** PR S 4009, PR S 40051, MN S 41589 |
| **Activity No.** | **Task No.** | **WORK DESCRIPTION** | **Completed****Name/Sign** |
|  |  | **APPARATUS INSPECTION & PREPARATION** |  |
| **1** | **1A** | Ensure the new AEB101 board is of correct type and version.  |  |
|  | **1B** | Ensure the new AEB101 board is free from damage. |  |
| **2** | **2A** | Confirm which AEB101 board has failed by observing: * fast flashing of SYS1 and/or SYS2 LED on front panel.
* no PWR LED on front panel.
 |  |
|  | **2B** | Use the ASD tool to determine the faulty AEB101 and confirm if the AEB101 needs to be replaced. |  |
|  | **2C** | Document the failed AEB101 board on the circuit diagram. |  |
|  | **2D** | Conduct an apparatus inspection of the condition of all remaining installed boards.  |  |
|  |  | **SAFEWORKING & DISCONNECTION FROM INTERLOCKING** |  |
| **3** | **3A** | Determine if the Frauscher FAdC R2 equipment and any associated signalling are required to be booked out of use. |  |
|  | **3B** | If required, disconnect the affected Frauscher FAdC R2 equipment and associated signalling, in accordance with *PR S 40009 Disconnection of Signalling Apparatus*. |  |
|  |  | **DISCONNECTION, REMOVAL AND INSTALLATION** |  |
| **4** | **4A** | Unscrew the locking tab at the base of the failed AEB101 board.  |  |
|  | **4B** | Lift the locking tab to release the failed AEB101 board. |  |
|  | **4C** | Carefully remove the AEB101 board. Ensure the board is pulled out in a continuous direction. |  |
|  | **4D** | Confirm DIP switch settings on both channels of the new AEB101 are identical to the removed faulty AEB101 board. |  |
| **5** | **5A** | Carefully install the new AEB101 board. Ensure the new board is aligned and follows the chassis tracks. |  |
|  | **5B** | Push the locking tab to lock the new AEB101 board in place. |  |
|  | **5C** | Tighten (do not over tighten) the screw within the locking tab at the base of the new AEB101 board. |  |
| **6** | **6A** | Confirm the IO-EXB is operational via the illumination of the 'power' light. |  |
| **7** | **7A** | Calibrate the AEB101 to the wheel sensor current value via the toggle switches. * First - Push both switches to the left (labelled adjust).
* Second - Push both switches to the right (labelled test).
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| **8** | **8A** | Perform the Detection Capability Test to confirm worst case wheel detection capability by placing the PB200 test plate upside down on both SYS1 and SYS2 independently. |  |

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| **FADC R2 AEB101 BOARD LIKE FOR LIKE RENEWAL** | **Page 2 of 2** |
|  |  | **CERTIFICATION** |  |
| **9** | **9A** | Verify that the new AEB101 board has been installed in the correct position and the LED are illuminated correctly. |  |
| **NOTE** | A reset of the track section shall be required in accordance with PR S 40051. |
| **11** | **11A** | If applicable, book the FAdC R2 axle counter back into use. |  |

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| **I certify \_\_\_\_\_\_ AEB101 board at \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ location has been inspected and tested and is fit for service.****\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_****Print Name Position****\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_****Signature Date** |