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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). | | | |  |
| **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** |