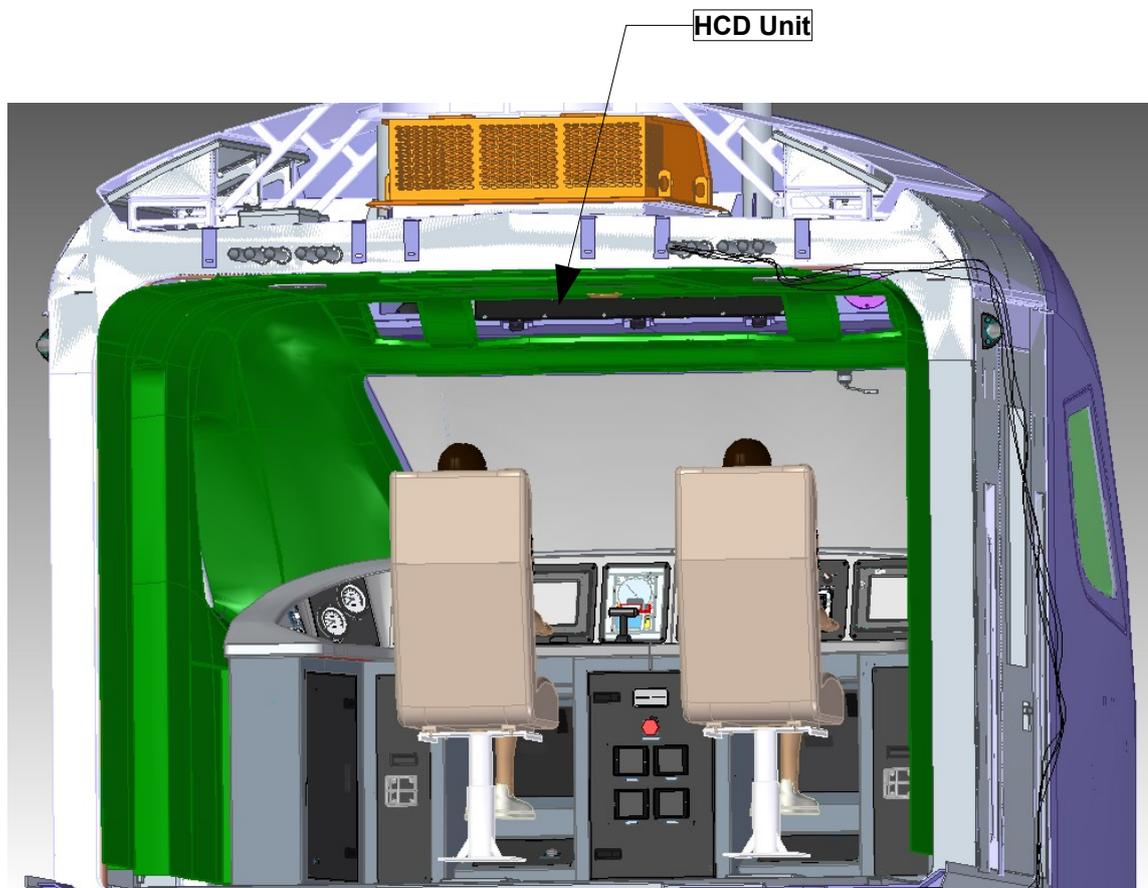


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1. Visual inspection of Head Code Unit (HCD)

1.1 Inspection and cleaning

- 1) Check the status of LED's in the HCD at the out side of the Cab
- 2) Open the cover (Nose cone) for HCD accessing
- 3) Check the power Connections, Ensure they are tightly connected
- 4) Check whether there is dust particle settled on the Screen. Clean the dust particle with a cloth (if required)
- 5) Check the damage of HCD
- 6) If found any damage such as Cracking , distortion, deformation replace the HCD
- 7) Check the fasteners for tightness. If loosened, tighten the fasteners to the torque of 8.5Nm
- 8) Close the cover (Nose cone) for HCD



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2. Replacement of Head Code Unit (HCD)

2.1 Removal

- 1) Power of the all Circuit Breakers
- 2) Open the cover for HCD access
- 3) Disconnect the Power, Ethernet and Earthing Cables from the Unit
- 4) Loosen and remove M6X25LG (6no's) Screws of HCD
- 5) Remove the HCD from the Cab

2.2 Installation

- 1) Locate the HCD in the Proper location of the Cab
- 2) Install the HCD Unit by using M6X25LG (6No's) screws
- 3) Tighten the Screws to the torque of 8.5Nm
- 4) Connect the Power, Ethernet and Earthing Cables to the Unit
- 5) Close the Hinged Cover for HCD on upper front panel of the cab
- 6) Power on the all Circuit Breakers.

3. Visual inspection of Side Destination Board (SDBU)

3.1 Inspection and cleaning

- 1) Check the status of LED's in the SDBU from out side of the Coach
- 2) Open the side panel for SDBU accessing
- 3) Check the power Connections, Ensure they are tightly connected
- 4) Check whether there is dust particle settled on the Screen. Clean the dust particle with a cloth (if required)
- 5) Check the damage of SDBU
- 6) If found any damage such as Cracking , distortion, deformation replace the SDBU
- 7) Check the fasteners for tightness. If loosened, tighten the fasteners to the torque of 5Nm
- 8) Close the side panel for SDBU

Side Destination Board



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4. Replacement of Side Destination Board (SDBU)

4.1 Removal

- 1) Power of the all Circuit Breakers
- 2) Open the side panel for SDBU access
- 3) Disconnect the Power, Ethernet and Earthing Cables from the Unit
- 4) Loosen and remove M5X16LG (5no's) Screws of SDBU
- 5) Remove the SDBU from the Cab

4.2 Installation

- 1) Locate the SDBU in the Proper location in side panel (From inside)
- 2) Install the SDBU Unit by using M5X16LG (5No's) screws
- 3) Tighten the Screws to the torque of 5Nm
- 4) Connect the Power, Ethernet and Earthing Cables to the Unit
- 5) Close the side panel for SDBU
- 6) Power on the all Circuit Breakers.

5. Replacement of Speaker Unit

5.1 Removal

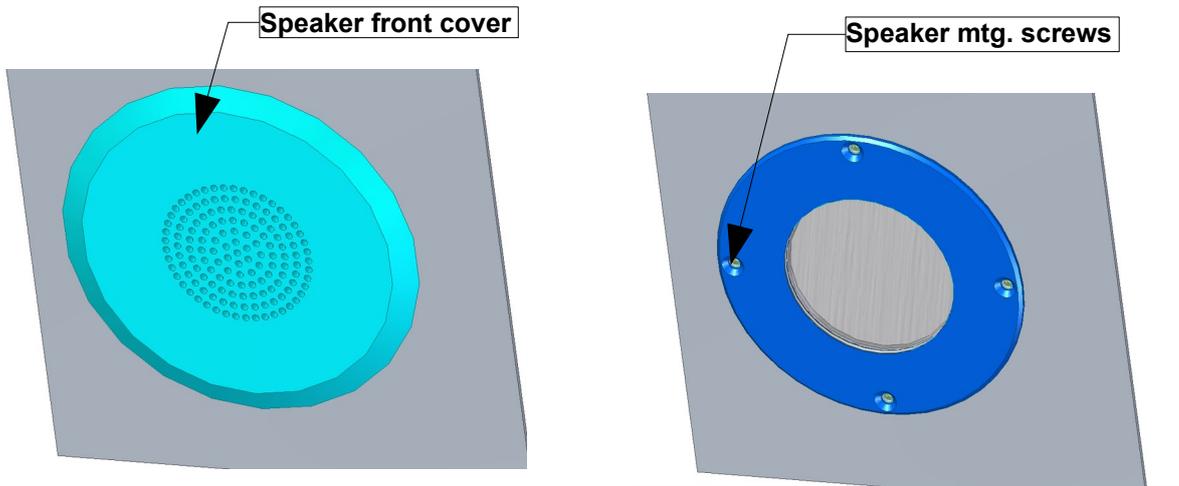
- 1) Power of the all Circuit Breakers
- 2) Remove the speaker front cover
- 3) Loosen and remove four M5X25LG (4no's) Screws
- 4) Disconnect the Wago and Earthing Cables from the Unit
- 5) Remove the Speaker from the Coach

5.2 Installation

- 1) Connect the Wago and Earthing Cables to the Unit
- 2) Locate the Speaker in the Proper location of the Coach
- 3) Install the Speaker Unit by using M5X25LG (4No's) screws
- 4) Tighten the Screws to the torque of 5 Nm
- 5) Close the speaker unit with front cover
- 6) Power on the all Circuit Breakers.



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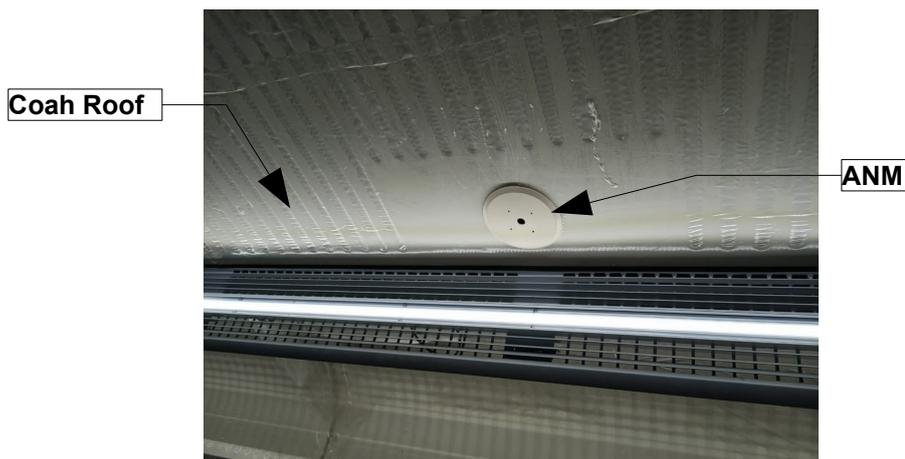
6. Replacement of AMBIENT NOISE MEASUREMENT MODULE (ANM)

6.1 Removal

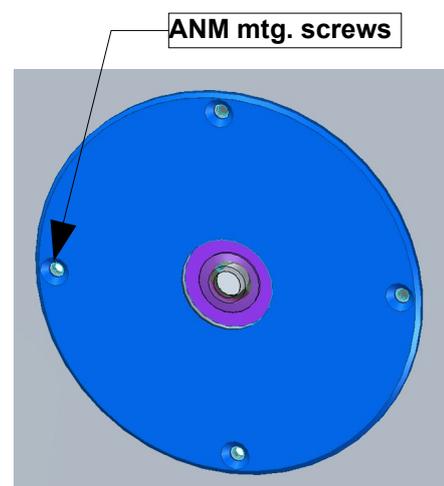
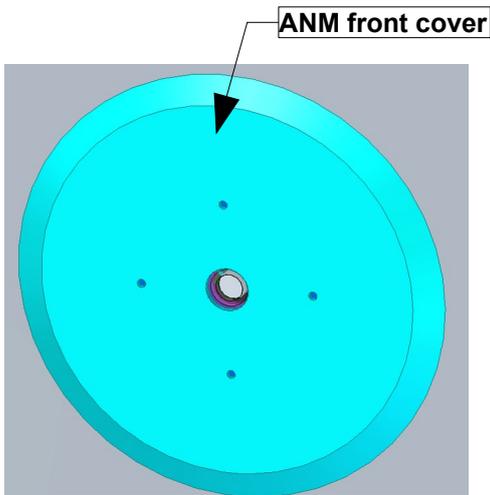
- 1) Power of the all Circuit Breakers
- 2) Remove the ANM front cover
- 3) Loosen and remove four M5X25LG (4no's) Screws
- 4) Disconnect the Wago and Earthing Cables from the Unit
- 5) Remove the ANM from the Coach

6.2 Installation

- 1) Connect the Wago and Earthing Cables to the Unit
- 2) Locate the ANM in the Proper location of the Coach
- 3) Install the ANM Unit by using M5X25LG (4No's) screws
- 4) Tighten the Screws to the torque of 5 Nm
- 5) Close the ANM unit with front cover
- 6) Power on the all Circuit Breakers.



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7. Visual inspection of Main Communication panel (MCP)

7.1 Inspection and cleaning

- 1) Visually inspect the damage LCD of MCP
- 2) Remove MCP from installed location (Driver Desk)
- 3) Visually inspect the damage on the connector and cable
- 4) Remove the foreign substance and dirt
- 5) Install MCP
- 6) Check the fasteners for tightness. If loosened, tighten the fasteners to the torque of 5Nm
- 7) Clean the relevant components, after careful inspection
- 8) If found any damage such as Cracking , distortion, deformation replace the MCP



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8. Replacement of Main Communication panel (MCP)

8.1 Removal

- 1) Power of the all Circuit Breakers
- 2) Loosen and remove four M5X25LG (4no's) Screws of MCP
- 3) Disconnect the Power, Comm. and Earthing Cables from the Unit
- 4) Remove the MCP from the Desk

8.2 Installation

- 1) Connect the Power, Comm. and Earthing Cables to the Unit
- 2) Locate the MMI in the Proper location of the Desk
- 3) Install the MCP Unit by using M5X25LG (4No's) screws
- 4) Tighten the Screws to the torque of 5 Nm
- 5) Power on the all Circuit Breakers.

9. Visual inspection of Emergency Talk Back Unit (ETBU)

9.1 Inspection and cleaning

- 1) Check the status of LED's & LCD in the ETBU from out side
- 2) Loosen and remove four M5X25LG (4no's) Screws of ETBU
- 3) Check whether there is dust particle settled on the gland area
Clean the dust particle with a cloth (if required)
- 4) Check the damage of ETBU
- 5) If found any damage such as Cracking , distortion, deformation replace the ETB
- 6) Check the fasteners for tightness. If loosened, tighten the fasteners to the torque of 5Nm



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10. Replacement of Emergency Talk Back Unit (ETB)

10.1 Removal

- 1) Power of the all Circuit Breakers
- 2) Loosen and remove Seven M5X20LG (4no's) Screws of ETB
- 3) Disconnect the Wago and Earthing Cables from the Unit
- 4) Remove the ETB from the Coach Side Wall

10.2 Installation

- 1) Connect the Wago and Earthing Cables to the Unit
- 2) Locate the ETB in the Proper location of the Coach Side Wall & door ways area
- 3) Install the ETBU Unit by using M5X25LG (4No's) screws
- 4) Tighten the Screws to the torque of 5 Nm
- 5) Power on the all Circuit Breakers.

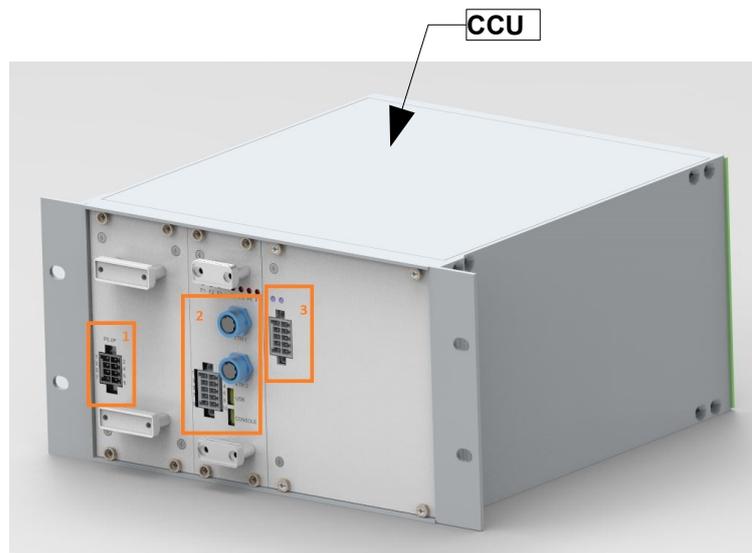
11. Visual inspection of Car Control Unit (CCU)

11.1 Removal

- 1) Power of the all Circuit Breakers
- 2) Open the ECC panel door
- 3) Disconnect the Wago and Earthing Cables from the Unit
- 4) Loosen and remove four M5X25LG (4no's) Screws
- 5) Remove the CCU from the Coach

11.2 Installation

- 1) Locate the CCU in the Proper location of the ECC panel
- 2) Install the CCU Unit by using M5X25LG (4No's) screws
- 3) Tighten the Screws to the torque of 5 Nm
- 4) Connect the Wago & Ethernet and Earthing Cables to the Unit
- 5) Power on the all Circuit Breakers.



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12. Visual inspection of MIC

12.1 Removal

- 1) Power of the all Circuit Breakers
- 2) Loosen and remove four M3X25LG (2no's) Screws
- 3) Disconnect the Cables from the Unit
- 4) Remove the MIC from the Desk

12.2 Installation

- 1) Locate the MIC in the Proper location of the Desk panel
- 2) Connect the Cable to the Unit
- 3) Install the MIC Unit by using M3X25LG (2No's) screws
- 4) Tighten the Screws to the torque of 4 Nm
- 5) Power on the all Circuit Breakers.

REV NO	DATE	DESCRIPTION OF REVISION
ECR No:		ISSUED TO: SR, IC.