

| PROJECT | CUSTOMER | VEHICLE |
|-----------------|----------|-----------------|
| Xtrapolis-PRASA | PRASA | 310 – TC1 – VPT |

RTR Vehicle Pre-Testing TS310 TC1 Report
 GIB0000008865



| | CREATED | VERIFIED | APPROVED | DISTRIBUTION |
|------------------|---------------|-----------------|-----------------|---|
| Name | Vusumuzi ZULU | Lindani Ngubane | Kgomotso NKOANA | Confidentiality Category <i>Restricted</i> <i>Project</i> <i>Normal</i> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> |
| Date | 10/11/2025 | 10/11/2025 | 10/11/2025 | Control Category <i>Controlled</i> <i>Not Controlled</i> <input checked="" type="checkbox"/> <input type="checkbox"/> |
| Signature | | | | Language EN |

This report has been automatically generated from TES version 1

Table of modifications

| Rev | Date | Modifications Content | Writer |
|-----|------------|-----------------------|---------------|
| A0 | 10/11/2025 | Creation | Vusumuzi ZULU |

Internal validations

| | Name | Function | Date | Signature |
|-----------------|-----------------|---------------------|------------|---|
| Creator | Vusumuzi ZULU | EPU Manager | 10/11/2025 | X  Vusumuzi ZULU EPU Manager |
| Verifier | Lindani Ngubane | Serial Test Manager | 10/11/2025 | X  Lindani Ngubane Serial Test Manager |
| Approver | Kgomotso NKOANA | Test Expert | 10/11/2025 | X  Kgomotso NKOANA Test Expert |

Execution Plan

| | |
|-------------------|------------|
| Start Date | 30/10/2025 |
| End Date | 30/10/2025 |

Contents

Section 1 - Purpose / Objectives

Section 2 – Protective Bonding

2.1 Instructions list

2.1.1 Protective Bonding and Return Current

Section 3 – Reflectometry

3.1 Instructions list

3.1.1 Network Cabling Integrity Test

Section 4 – Config

4.1 Instructions list

4.1.1 Car Configuration

Section 5 - Report summaries

5.1 Results status

5.2 Tools used

Section 1 – Purpose / Objectives

1. Protective Bonding

The objective of this procedure is to verify the return path of the current to the ground.

2. Reflectometry

The objective of this procedure is to verify the integrity of the ethernet cables.

3. Config

The objective of this procedure is to set up car ID for specific systems such as fire and to verify wiring to the speed sensors and OTDR.



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RTR Vehicle Pre-Testing Report

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Section 2 – Protective Bonding

2.1 Instructions list

2.1.1 Protective Bonding and Return Current

I - Information A - Action R - Result NE - Not Executed

| N° | Type | Instruction | File | Result status | Result value | Operator | Vehicle |
|-------|------|---|---|---------------|--------------|--|---------|
| 10001 | I | Return Circuit: car body to Ground | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10002 | I | The purpose of this test is to confirm that the car body of each car in the train is connected to ground via the earthing brush which will ensure that current from the overhead wire is returned to the substation without damage to equipment or risk of electric shock | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10003 | A | The Ohmmeter shall be off | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10004 | A | Use the Tool List to record the serial number of the Ohmmeter that will be used for this test | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10005 | A | Ensure that the current setpoint is 50A and voltage <50V (applicable for all impedance measurement) on the Ohmmeter device to be used for the test. | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10006 | I | For all impedance measurements of the car body to ground the positive terminal shall be connected to the car body and the negative terminal to the rail | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10007 | I | For all other impedance measurements, the positive terminal shall be connected to the tested subject and the negative terminal to the car body shell. | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10008 | A | Visually identify and inspect that the earthing cables of the 1st axle of 1st bogie frame and the 2nd axle of 2nd bogie frame are properly connected to the axle brushes. |  | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10009 | A | Disconnect from the axle box the earthing cable of the 2nd axle of 2nd bogie frame | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10010 | R | Only the earthing cable of the 1st axle of the 1st bogie frame is connected | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10011 | A | Measure the car body to ground impedance | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10012 | R | ImpedanceResult Max : $x \leq 0.05$ (Ohm) | | OK | 0.00231 | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10013 | A | Disconnect the earthing cable of 1st axle of 1st bogie frame | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |

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|-------|---|--|--|----|-----------|--|-----|
| 10014 | A | Connect the earthing cable of the 2nd axle of 2nd bogie frame | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10015 | R | Only the earthing cable of the 2nd axle of the 2nd bogie frame of TC1 car is connected | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10016 | A | Measure the car body to ground impedance | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10017 | R | ImpedanceResult Max : x <= 0.05 (Ohm) | | OK | 0.0032113 | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10018 | A | Connect the earthing cable of the 1st axle of 1st bogie frame | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10019 | I | Earthing of Equipment on the Underframe | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10020 | A | Visually inspect that the earthing cable connecting the Auxiliary Converter Case to TC1 car body is properly connected and related bolts are correctly torqued | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10021 | R | Auxiliary Converter visually grounded and torque is correctly marked | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10022 | A | Measure the impedance between the Auxiliary Converter Case and the car body | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10023 | R | ImpedanceResult Max : x <= 0.05 (Ohm) | | OK | 0.0076443 | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10024 | A | Visually inspect that the earthing cable connecting the Battery Box to the car body is properly connected and the related bolts are correctly torqued | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10025 | R | Battery Box visually grounded and torque is correctly marked | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10026 | A | Measure the impedance between the Battery Box Case and the car body | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10027 | R | ImpedanceResult Max : x <= 0.05 (Ohm) | | OK | 0.005275 | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10028 | A | Visually inspect that the earthing cable connecting the Eurobalise Antenna to the car body is properly connected and the related bolts are correctly torqued | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10029 | R | Eurobalise Antenna visually grounded and torque is correctly marked | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10030 | A | Measure the impedance between the Eurobalise Antenna and the car body | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10031 | R | ImpedanceResult Max : x <= 0.05 (Ohm) | | OK | 0.002135 | Celiwe Sokhela 491462 | TC1 |

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| | | | | | | 30.10.2025 | |
| 10032 | A | Visually inspect that the earthing cable connecting the LVB/Brake Module to the car body is properly connected and the related bolts are correctly torqued | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10033 | R | LVB/Brake Module visually grounded and torque is correctly marked | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10034 | A | Measure the impedance between the LVB/Brake and the car body | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10035 | R | ImpedanceResult Max : $x \leq 0.05$ (Ohm) | | OK | 0.003256 | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10036 | I | Earthing of Equipment on the Exterior | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10037 | I | Exterior Front | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10038 | A | Visually inspect that the earthing cable connecting the Front Coupler to the car body is properly connected and the related bolts are correctly torqued | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10039 | R | Front Coupler visually grounded and torque is correctly marked | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10040 | A | Measure the impedance between the Front Coupler and the car body | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10041 | R | ImpedanceResult Max : $x \leq 0.05$ (Ohm) | | OK | 0.0031635 | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10042 | I | Earthing of Equipment on the Roof | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10043 | A | Visually inspect that the earthing cable connecting the Saloon HVAC to the car body is properly connected and the related bolts are correctly torqued | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10044 | R | Saloon HVAC visually grounded and torque is correctly marked | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10045 | A | Measure the impedance between the Saloon HVAC and the car body | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10046 | R | ImpedanceResult Max : $x \leq 0.05$ (Ohm) | | OK | 0.005476 | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10047 | A | Visually inspect that the earthing cable connecting the Cab HVAC to the car body is properly connected and the related bolts are correctly torqued | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |

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| 10048 | R | Cab HVAC visually grounded and torque is correctly marked | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10049 | A | Measure the impedance between the Cab HVAC and the car body | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10050 | R | ImpedanceResult Max : $x \leq 0.05$ (Ohm) | | OK | 0.0065432 | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10051 | I | Earthing of interior equipment | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10052 | I | Cabin | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10053 | A | Visually inspect that the earthing cable connecting LV1 cubicle to the car body is properly connected and the related bolts are correctly torqued | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10054 | R | LV1 visually grounded and torque is correctly marked | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10055 | A | Measure the impedance between the LV1 cubicle and the car body | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10056 | R | ImpedanceResult Max : $x \leq 0.05$ (Ohm) | | OK | 0.0069143 | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10057 | A | Visually inspect that the earthing cable connecting LV2 cubicle to the car body is properly connected and the related bolts are correctly torqued | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10058 | R | LV2 visually grounded and torque is correctly marked | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10059 | A | Measure the impedance between the LV2 cubicle and the car body | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10060 | R | ImpedanceResult Max : $x \leq 0.05$ (Ohm) | | OK | 0.003287 | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10061 | A | Visually inspect that the earthing cable connecting Under Desk Left cubicle to the car body is properly connected and the related bolts are correctly torqued | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10062 | R | Under Desk Left cabinet visually grounded and torque is correctly marked | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10063 | A | Measure the impedance between the Under Desk Left cabinet and the car body | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10064 | R | ImpedanceResult Max : $x \leq 0.05$ (Ohm) | | OK | 0.005314 | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10065 | A | Visually inspect that the earthing cable connecting Under Desk Middle cabinet to | | OK | | Celiwe Sokhela 491462 | TC1 |

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| | | the car body is properly connected and the related bolts are correctly torqued | | | | 30.10.2025 | |
| 10066 | R | Under Desk Middle cabinet visually grounded and torque is correctly marked | OK | | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10067 | A | Measure the impedance between the Under Desk Middle cabinet and the car body | OK | | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10068 | R | ImpedanceResult Max : $x \leq 0.05$ (Ohm) | OK | 0.005235 | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10069 | A | Measure the impedance between the Master Controller and the car body | OK | | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10070 | R | ImpedanceResult Max : $x \leq 0.05$ (Ohm) | OK | 0.0063124 | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10071 | A | Measure the impedance between the Foot Heater and the car body | OK | | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10072 | R | ImpedanceResult Max : $x \leq 0.05$ (Ohm) | OK | 0.003254 | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10073 | I | Saloon | OK | | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10074 | A | Visually inspect that the earthing cable connecting LV7 cubicle to the car body is properly connected and the related bolts are correctly torqued | OK | | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10075 | R | LV7 visually grounded and torque is correctly marked | OK | | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10076 | A | Measure the impedance between the LV7 cubicle and the car body | OK | | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10077 | R | ImpedanceResult Max : $x \leq 0.05$ (Ohm) | OK | 0.005376 | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10078 | I | END OF TEST | OK | | | Celiwe Sokhela 491462 30.10.2025 | TC1 |



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Section 3 – Reflectometry

3.1 Instructions list

3.1.1 Network Cabling Integrity Test

I - Information A - Action R - Result NE - Not Executed

| N° | Type | Instruction | File | Result status | Result value | Operator | Vehicle |
|-------|------|---|---|---------------|--------------|---|---------|
| 10001 | I | Network Cabling Integrity Test | | OK | | Mlungisi Madela 529927 31.10.2025 | TC1 |
| 10002 | I | It is necessary to check the network cables to ensure that they have been installed correctly to improve the overall operation of the system. | | OK | | Mlungisi Madela 529927 31.10.2025 | TC1 |
| 10003 | I | The Cable Analyzer Module DSX-5000 will be used to validate cabling | | OK | | Mlungisi Madela 529927 31.10.2025 | TC1 |
| 10004 | I | Register as a new Operator on the DSX-5000. Check on the manual below on how to register as a new Operator. [14-48-12-308038_DSX 5000 User Manual.pdf] |  | OK | | Mlungisi Madela 529927 31.10.2025 | TC1 |
| 10005 | I | When saving the tests results for each line, it should be named by its trainset number (X) and the test code (Indicated in the test step). i.e. TS021_TC1_P01 for PACIS and TS021_TC1_T01 for TCMS. | | OK | | Mlungisi Madela 529927 31.10.2025 | TC1 |
| 10006 | I | Use the pictures below for coupler test | | OK | | Mlungisi Madela 529927 31.10.2025 | TC1 |
| 10007 | I | Front Coupler |  | OK | | Mlungisi Madela 529927 31.10.2025 | TC1 |
| 10008 | I | DB9 pin out |  | OK | | Mlungisi Madela 529927 31.10.2025 | TC1 |
| 10009 | I | TCMS cabling | | OK | | Mlungisi Madela 529927 31.10.2025 | TC1 |
| 10010 | A | From: [25A15 Train Router Switch (Local: +LV1; Connector: 25XP15_ETH7)] to: [54A13 Train Router Switch (Local: +LV1; Connector: 54XP13_ETHCPU)] NOTE: Cable is crossed TSX_TC1_T01 | | OK | | Mlungisi Madela 529927 31.10.2025 | TC1 |
| 10011 | A | From: [25A15 Train Router Switch (Local: +LV1; Connector: 25XP15_ETH4)] to: [25A11 Ethernet Switch (CRS2) (Local: +LV1; Connector: 25XP11_X4)] NOTE: Cable is crossed TSX_TC1_T02 | | OK | | Mlungisi Madela 529927 31.10.2025 | TC1 |
| 10012 | A | From: [25A11 Ethernet Switch (CRS2) (Local: +LV1; Connector: 25XP11_X3)] to: [25A12 Switch Ethernet (CRS3) (Local: +LV1; Connector: 25XP12_X4)] | | OK | | Mlungisi Madela 529927 31.10.2025 | TC1 |

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| | | NOTE: Cable is crossed TSX_TC1_T03 | | | | | |
| 10013 | A | From: [25A12 Ethernet Switch (Local: +LV1; Connector: 25XP12_X8)] to: [25A18 MAINTENANCE INTERFACE (Local: +LV1; Connector: 25XP18_ETH)] NOTE: Cable is crossed TSX_TC1_T04 | | OK | | Mlungisi Madela 529927 31.10.2025 | TC1 |
| 10014 | A | From: [25A15 Train Router Switch (Local: +LV1; Connector: 25XP15_ETH1)] to: [25A14 Ethernet Repeater (TBR) (Local: +LV7; Connector: 25XP14_ETH0)] NOTE: Cable is crossed TSX_TC1_T05 | | OK | | Mlungisi Madela 529927 31.10.2025 | TC1 |
| 10015 | A | From: [25A15 Train Router Switch (Local: +LV1; Connector: 25XP15_ETH5)] to: [25A10 Ethernet Switch (CRS1) (Local: +LV7; Connector: 25XP10_X3)] NOTE: Cable is crossed TSX_TC1_T06 | | OK | | Mlungisi Madela 529927 31.10.2025 | TC1 |
| 10016 | A | From: [25A12 Switch Ethernet (CRS3) (Local: +LV1; Connector: 25XP12_X3)] to: [25A13 Switch Ethernet (CRS4) (Local: +LV7; Connector: 25XP13_X4)] NOTE: Cable is crossed TSX_TC1_T07 | | OK | | Mlungisi Madela 529927 31.10.2025 | TC1 |
| 10017 | A | From: [25A15 Train Router Switch (Local: +LV1; Connector: 25XP15_ETH3)] to: [Inter-car (Local: +END2; 90XP11.all)] NOTE: Cable is Straight TSX_TC1_T08 | | OK | | Mlungisi Madela 529927 31.10.2025 | TC1 |
| 10018 | A | From: [25A10 Ethernet Switch (CRS1) (Local: +LV7; Connector: 25XP10_X4)] to: [Inter-car (Local: +END2; 90XP11.al)] NOTE: Cable is Straight TSX_TC1_T09 | | OK | | Mlungisi Madela 529927 31.10.2025 | TC1 |
| 10019 | A | From: [25A13 Ethernet Switch (Local: +LV7; Connector: 25XP13_X3)] to: [Inter-car (Local: +END2; 90XP12.all)] NOTE: Cable is crossed TSX_TC1_T10 | | OK | | Mlungisi Madela 529927 31.10.2025 | TC1 |
| 10020 | A | From: [25A14 TBR (Local: +LV7; Connector: 25XP14_ETH1)] to: [Inter-car (Local: +END2; 90XP12.al)] NOTE: Cable is Straight TSX_TC1_T11 | | OK | | Mlungisi Madela 529927 31.10.2025 | TC1 |
| 10021 | A | From: [25A15 Train Router Switch (Local: +LV1; Connector: 25XP15_ETH0)] to: [Coupler 041 (Local: CLP; Connector: | | OK | | Mlungisi Madela 529927 31.10.2025 | TC1 |

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| | | 90XR120_LC14]) TSX_TC1_T12 NOTE: Cable is crossed NOTE: For this test, use the male coupler connector provided. Please refer to the picture above for the correct location of connector. | | | | |
| 10022 | A | From: [25A15 Train Router Switch (Local: +LV1; Connector: 25XP15_ETH2)] to: [Coupler 141 (Local: +CLP; Connector: 90XR120_RC14)] TSX_TC1_T13 NOTE: Cable is Straight NOTE: For this test use the female coupler connector provided. Please refer to the above picture for correct location for the connector. | | OK | | Mlungisi Madela 529927 31.10.2025 TC1 |
| 10023 | A | From: [UHF Ethernet Cable (63XP1_X4) (Local: +LV2)] to: [UHF Hand held Ethernet Cable (Local: UDR - Under Driver Right); (63XP2_X1)] TSX_TC1_T14 NOTE: Cable is straight with 8 wires | | OK | | Mlungisi Madela 529927 31.10.2025 TC1 |
| 10024 | I | Pacis cabling | | OK | | Mlungisi Madela 529927 31.10.2025 TC1 |
| 10025 | A | From: [TRS 54A13 (Local: +LV1; Connector: 54XP13_ETH7)] to: [Inter-car (Local: +END2; 90XP12.ell)] NOTE: Cable is straight TSX_TC1_P01 | | OK | | Mlungisi Madela 529927 31.10.2025 TC1 |
| 10026 | A | From: [CRS1 54A10 (Local: +LV7; Connector: 54XP10_X7)] to: [Inter-car (Local: +END2; 90XP11.ell)] NOTE: Cable is crossed TSX_TC1_P02 | | OK | | Mlungisi Madela 529927 31.10.2025 TC1 |
| 10027 | A | From: [54A13 TRS (Local: +LV1; Connector: 54XP13_ETH6)] to: [54A10 CRS1 (Local: +LV7; Connector: 54XP10_X8)] NOTE: Cable is crossed TSX_TC1_P03 | | OK | | Mlungisi Madela 529927 31.10.2025 TC1 |
| 10028 | A | From: [54A42 RACK UMC (EBM) (Local: +LV1; Connector: 54XP42_X2) to: [Coupler 042 (Local: +CLP; Connector: 90XR120_LE12)] TSX_TC1_P04 NOTE: Cable is crossed NOTE: For this test, use the male coupler connector and the DB9 connector provided. Refer to the picture above for the correct location of the connector. | | OK | | Mlungisi Madela 529927 31.10.2025 TC1 |

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|-------|---|---|----|--|---|-----|
| 10029 | A | From: [54A42 RACK UMC (EBM) (Local: +LV1;Connector: 54XP42_X8) to: [Coupler 142 (Local: +CLP; Connector: 90XR120_RE12)] TSX_TC1_P05 NOTE: Cable is straight NOTE: For this test use the female coupler connector and the DB9 connector provided. Refer to the picture above for the correct location of the connector. | OK | | Mlungisi Madela 529927 31.10.2025 | TC1 |
| 10030 | A | All cables have been validated on TC1 | OK | | Mlungisi Madela 529927 31.10.2025 | TC1 |
| 10031 | R | Download all the results from Fluke and save them on PC with folder name "TC1_TSxx" | OK | | Vusumuzi Zulu 420115 10.11.2025 | TC1 |
| 10032 | I | END OF TEST | OK | | Vusumuzi Zulu 420115 10.11.2025 | TC1 |



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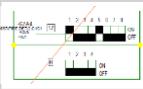
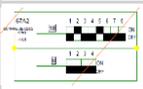
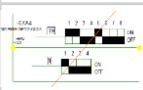
Emission date
10/11/2025

Section 4 – Config

4.1 Instructions list

4.1.1 Car Configuration

I - Information A - Action R - Result NE - Not Executed

| N° | Type | Instruction | File | Result status | Result value | Operator | Vehicle |
|-------|------|---|---|---------------|--------------|--|---------|
| 10001 | I | Configuration Checks | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10002 | A | Check continuity between 93XT104_1 pin 50 and Ground point | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10003 | R | There is no continuity | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10004 | I | If there is continuity above, the wire 19203LE is pinched on the compressor isolation cock. | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10005 | A | Check continuity on all pins of connector 90XP15 & 90XP14 to ground | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10006 | R | There is no continuity except pin 62 of connector 90XP15 | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10007 | A | Check continuity on all pins of the coupler to ground. | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10008 | R | There is no continuity | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10009 | I | Smoke Detector Address Configuration | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10010 | A | Remove and configure the Smoke Detector 67A4 in the cabin, according to the figure attached. |  | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10011 | A | Reconnect Smoke Detector 67A4 | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10012 | A | Remove and configure the Smoke Detector 67A2 (+PA1) according to the figure attached. |  | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10013 | A | Reconnect Smoke Detector 67A2 | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10014 | A | Remove and configure the Smoke Detector 67A3 (+PA3) according to the figure attached. |  | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10015 | R | Measure the resistance (LHD- Line Heat Detection from Static Converter Box) between point 1 and point 4 of the connector 67XP3_11.Result Min/Max : 550<= x<= 700 (Ohms) | | OK | 696 | Celiwe Sokhela 491462 30.10.2025 | TC1 |

| | | | | | | | |
|-------|---|--|--|----|--|--|-----|
| 10016 | A | Reconnect Smoke Detector 67A3 | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10017 | I | OTDR LOOP | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10018 | I | Check the continuity between the following points: | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10019 | A | From: [61A2 Speed Indicator IN+ (local: +DD4)] to: [Local(+END2) Connector: - 90XP13.b pin1] | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10020 | A | From: [61A2 Speed Indicator OUT- (local: +DD4)] to: [Local(+END2) Connector: - 90XP13.b pin 2] | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |
| 10021 | I | END OF TEST | | OK | | Celiwe Sokhela 491462 30.10.2025 | TC1 |



Serial Tests Report
TS310 – TC1 – VPT
RTR Vehicle Pre-Testing Report

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Section 5 – Report summaries

5.1 Results status

| Test Instruction Sheet | Compliant | Incomplete | Non-compliant |
|------------------------|-----------|------------|---------------|
| Protective Bonding | X | | |
| Reflectometry | X | | |
| Config | X | | |

5.2 Tools used

| Function | Tool name | Tool number | Next Calibration date |
|-----------------|------------------------|----------------------|-----------------------|
| 012 | Megger | Megger | 8/11/2026 |
| 025_NET_054_PIS | Cable Analyser DSX5000 | Fluke machine_Gibela | 12/31/2025 |
| CONF | Multimeter | Multimeter 4 | 9/30/2026 |