

| PROJECT | CUSTOMER | VEHICLE |
|------------------|----------|-----------------|
| X'trapolis-PRASA | PRASA | 323 – TC1 – VPT |

RTR Vehicle Pre-Testing TS323 TC1 Report
 GIB0000009193



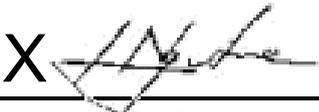
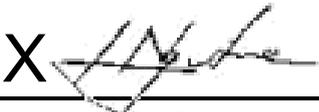
| | CREATED | VERIFIED | APPROVED | DISTRIBUTION |
|------------------|---------------------|-----------------|-----------------|---|
| Name | Nhlakanipho MASONDO | Lindani NGUBANE | Kgomotso NKOANA | Confidentiality Category <i>Restricted</i> <i>Project</i> <i>Normal</i> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> |
| Date | 16/02/2026 | 16/02/2026 | 16/02/2026 | 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 | 16/02/2026 | Creation | Nhlakanipho MASONDO |

Internal validations

| | Name | Function | Date | Signature |
|-----------------|---------------------|---------------------|------------|--|
| Creator | Nhlakanipho MASONDO | EPU Manager | 16/02/2026 |  X  Nhlakanipho MASONDO EPU Manager |
| Verifier | Lindani NGUBANE | Serial Test Manager | 16/02/2026 |  X  Lindani NGUBANE Serial Test Manager |
| Approver | Kgomotso NKOANA | Test Expert | 16/02/2026 |  X  Kgomotso NKOANA Test Expert |

Execution Plan

| | |
|-------------------|------------|
| Start Date | 03/02/2026 |
| End Date | 03/02/2026 |



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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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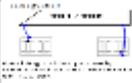
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Section 2 – Protective Bonding

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 | | Sizwe Sibanyoni 484647 03.02.2026 | 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 | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10003 | A | The Ohmmeter shall be off | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10004 | A | Use the Tool List to record the serial number of the Ohmmeter that will be used for this test | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | 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 | | Sizwe Sibanyoni 484647 03.02.2026 | 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 | | Sizwe Sibanyoni 484647 03.02.2026 | 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 | | Sizwe Sibanyoni 484647 03.02.2026 | 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 | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10009 | A | Disconnect from the axle box the earthing cable of the 2nd axle of 2nd bogie frame | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10010 | R | Only the earthing cable of the 1st axle of the 1st bogie frame is connected | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10011 | A | Measure the car body to ground impedance | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10012 | R | ImpedanceResult Max : $x \leq 0.05$ (Ohm) | | OK | 0.00918 | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10013 | A | Disconnect the earthing cable of 1st axle of 1st bogie frame | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |

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|-------|---|--|--|----|---------|---|-----|
| 10014 | A | Connect the earthing cable of the 2nd axle of 2nd bogie frame | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10015 | R | Only the earthing cable of the 2nd axle of the 2nd bogie frame of TC1 car is connected | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10016 | A | Measure the car body to ground impedance | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10017 | R | ImpedanceResult Max : x <= 0.05 (Ohm) | | OK | 0.00787 | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10018 | A | Connect the earthing cable of the 1st axle of 1st bogie frame | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10019 | I | Earthing of Equipment on the Underframe | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | 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 | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10021 | R | Auxiliary Converter visually grounded and torque is correctly marked | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10022 | A | Measure the impedance between the Auxiliary Converter Case and the car body | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10023 | R | ImpedanceResult Max : x <= 0.05 (Ohm) | | OK | 0.00824 | Sizwe Sibanyoni 484647 03.02.2026 | 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 | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10025 | R | Battery Box visually grounded and torque is correctly marked | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10026 | A | Measure the impedance between the Battery Box Case and the car body | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10027 | R | ImpedanceResult Max : x <= 0.05 (Ohm) | | OK | 0.00901 | Sizwe Sibanyoni 484647 03.02.2026 | 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 | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10029 | R | Eurobalise Antenna visually grounded and torque is correctly marked | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10030 | A | Measure the impedance between the Eurobalise Antenna and the car body | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10031 | R | ImpedanceResult Max : x <= 0.05 (Ohm) | | OK | 0.00835 | Sizwe Sibanyoni 484647 | TC1 |

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| | | | | | | 03.02.2026 | |
| 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 | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10033 | R | LVB/Brake Module visually grounded and torque is correctly marked | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10034 | A | Measure the impedance between the LVB/Brake and the car body | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10035 | R | ImpedanceResult Max : $x \leq 0.05$ (Ohm) | | OK | 0.00749 | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10036 | I | Earthing of Equipment on the Exterior | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10037 | I | Exterior Front | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | 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 | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10039 | R | Front Coupler visually grounded and torque is correctly marked | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10040 | A | Measure the impedance between the Front Coupler and the car body | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10041 | R | ImpedanceResult Max : $x \leq 0.05$ (Ohm) | | OK | 0.00672 | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10042 | I | Earthing of Equipment on the Roof | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | 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 | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10044 | R | Saloon HVAC visually grounded and torque is correctly marked | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10045 | A | Measure the impedance between the Saloon HVAC and the car body | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10046 | R | ImpedanceResult Max : $x \leq 0.05$ (Ohm) | | OK | 0.00638 | Sizwe Sibanyoni 484647 03.02.2026 | 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 | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |

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|-------|---|---|--|----|---------|---|-----|
| 10048 | R | Cab HVAC visually grounded and torque is correctly marked | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10049 | A | Measure the impedance between the Cab HVAC and the car body | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10050 | R | ImpedanceResult Max : $x \leq 0.05$ (Ohm) | | OK | 0.00527 | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10051 | I | Earthing of interior equipment | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10052 | I | Cabin | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | 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 | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10054 | R | LV1 visually grounded and torque is correctly marked | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10055 | A | Measure the impedance between the LV1 cubicle and the car body | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10056 | R | ImpedanceResult Max : $x \leq 0.05$ (Ohm) | | OK | 0.00682 | Sizwe Sibanyoni 484647 03.02.2026 | 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 | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10058 | R | LV2 visually grounded and torque is correctly marked | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10059 | A | Measure the impedance between the LV2 cubicle and the car body | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10060 | R | ImpedanceResult Max : $x \leq 0.05$ (Ohm) | | OK | 0.00499 | Sizwe Sibanyoni 484647 03.02.2026 | 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 | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10062 | R | Under Desk Left cabinet visually grounded and torque is correctly marked | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10063 | A | Measure the impedance between the Under Desk Left cabinet and the car body | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10064 | R | ImpedanceResult Max : $x \leq 0.05$ (Ohm) | | OK | 0.00501 | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10065 | A | Visually inspect that the earthing cable connecting Under Desk Middle cabinet to | | OK | | Sizwe Sibanyoni 484647 | TC1 |

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|-------|---|---|----|---------|--|---|-----|
| | | the car body is properly connected and the related bolts are correctly torqued | | | | 03.02.2026 | |
| 10066 | R | Under Desk Middle cabinet visually grounded and torque is correctly marked | OK | | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10067 | A | Measure the impedance between the Under Desk Middle cabinet and the car body | OK | | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10068 | R | ImpedanceResult Max : $x \leq 0.05$ (Ohm) | OK | 0.00527 | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10069 | A | Measure the impedance between the Master Controller and the car body | OK | | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10070 | R | ImpedanceResult Max : $x \leq 0.05$ (Ohm) | OK | 0.00576 | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10071 | A | Measure the impedance between the Foot Heater and the car body | OK | | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10072 | R | ImpedanceResult Max : $x \leq 0.05$ (Ohm) | OK | 0.00497 | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10073 | I | Saloon | OK | | | Sizwe Sibanyoni 484647 03.02.2026 | 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 | | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10075 | R | LV7 visually grounded and torque is correctly marked | OK | | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10076 | A | Measure the impedance between the LV7 cubicle and the car body | OK | | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10077 | R | ImpedanceResult Max : $x \leq 0.05$ (Ohm) | OK | 0.00527 | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10078 | I | END OF TEST | OK | | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |



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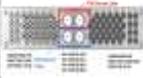
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Section 3 – Reflectometry

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 | | Sizwe Sibanyoni 484647 03.02.2026 | 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 | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10003 | I | The Cable Analyzer Module DSX-5000 will be used to validate cabling | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | 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 | | Sizwe Sibanyoni 484647 03.02.2026 | 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 | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10006 | I | Use the pictures below for coupler test | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10007 | I | Front Coupler |  | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10008 | I | DB9 pin out |  | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10009 | I | TCMS cabling | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | 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 | | Sizwe Sibanyoni 484647 03.02.2026 | 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 | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10012 | A | From: [25A11 Ethernet Switch (CRS2) (Local: +LV1; Connector: 25XP11_X3)] to: [25A12 Switch Ethernet (CRS3) (Local: +LV1; Connector: 25XP12_X4)] | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | 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 | | Sizwe Sibanyoni 484647 03.02.2026 | 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 | | Sizwe Sibanyoni 484647 03.02.2026 | 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 | | Sizwe Sibanyoni 484647 03.02.2026 | 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 | | Sizwe Sibanyoni 484647 03.02.2026 | 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 | | Sizwe Sibanyoni 484647 03.02.2026 | 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 | | Sizwe Sibanyoni 484647 03.02.2026 | 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 | | Sizwe Sibanyoni 484647 03.02.2026 | 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 | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10021 | A | From: [25A15 Train Router Switch (Local: +LV1; Connector: 25XP15_ETH0)] to: [Coupler 041 (Local: CLP; Connector: | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | 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 | | Sizwe Sibanyoni 484647 03.02.2026 TC1 |
| 10023 | A | From: [UHF Ethernet Cable (63XP1_X4) (Local: +LV2)] to: [UHF Handheld Ethernet Cable (Local: UDR - Under Driver Right); (63XP2_X1)] TSX_TC1_T14 NOTE: Cable is straight with 8 wires | | OK | | Sizwe Sibanyoni 484647 03.02.2026 TC1 |
| 10024 | I | Pacis cabling | | OK | | Sizwe Sibanyoni 484647 03.02.2026 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 | | Sizwe Sibanyoni 484647 03.02.2026 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 | | Sizwe Sibanyoni 484647 03.02.2026 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 | | Sizwe Sibanyoni 484647 03.02.2026 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 | | Sizwe Sibanyoni 484647 03.02.2026 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 | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10030 | A | All cables have been validated on TC1 | OK | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10031 | R | Download all the results from Fluke and save them on PC with folder name "TC1_TSxx" | OK | Ntobeko Ndlovu 421595 06.02.2026 | TC1 |
| 10032 | I | END OF TEST | OK | Ntobeko Ndlovu 421595 06.02.2026 | TC1 |

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TS323 – TC1 – VPT
RTR Vehicle Pre-Testing Report

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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 | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10002 | A | Check continuity between 93XT104_1 pin 50 and Ground point | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10003 | R | There is no continuity | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10004 | I | If there is continuity above, the wire 19203LE is pinched on the compressor isolation cock. | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10005 | A | Check continuity on all pins of connector 90XP15 & 90XP14 to ground | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10006 | R | There is no continuity except pin 62 of connector 90XP15 | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10007 | A | Check continuity on all pins of the coupler to ground. | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10008 | R | There is no continuity | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10009 | I | Smoke Detector Address Configuration | | OK | | Tebogo Mtombeni 529938 06.02.2026 | TC1 |
| 10010 | A | Remove and configure the Smoke Detector 67A4 in the cabin, according to the figure attached. |  | OK | | Tebogo Mtombeni 529938 06.02.2026 | TC1 |
| 10011 | A | Reconnect Smoke Detector 67A4 | | OK | | Tebogo Mtombeni 529938 06.02.2026 | TC1 |
| 10012 | A | Remove and configure the Smoke Detector 67A2 (+PA1) according to the figure attached. |  | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10013 | A | Reconnect Smoke Detector 67A2 | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10014 | A | Remove and configure the Smoke Detector 67A3 (+PA3) according to the figure attached. |  | OK | | Sizwe Sibanyoni 484647 03.02.2026 | 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 | 575.5 | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |



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| | | | | | | | |
|-------|---|--|--|----|--|---|-----|
| 10016 | A | Reconnect Smoke Detector 67A3 | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10017 | I | OTDR LOOP | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10018 | I | Check the continuity between the following points: | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10019 | A | From: [61A2 Speed Indicator IN+ (local: +DD4)] to: [Local(+END2) Connector: - 90XP13.b pin1] | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10020 | A | From: [61A2 Speed Indicator OUT- (local: +DD4)] to: [Local(+END2) Connector: - 90XP13.b pin 2] | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |
| 10021 | I | END OF TEST | | OK | | Sizwe Sibanyoni 484647 03.02.2026 | TC1 |

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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 2 | 12/11/2026 |
| 025_NET_054_PIS | Cable Analyser DSX5000 | Cable Analyser Ubunye | 12/11/2026 |
| CONF | Multimeter | Multimeter 1 | 12/11/2026 |