

| PROJECT | CUSTOMER | VEHICLE |
|-----------------|----------|-----------------|
| Xtrapolis-PRASA | PRASA | 232 – TC1 – VPT |

RTR Vehicle Pre-Testing TS232 TC1 Report
GIB0000006913






| | CREATED | VERIFIED | APPROVED | DISTRIBUTION |
|-----------|-----------------------|----------------|-----------------|---|
| Name | Tshegofatso SETSHOGWE | Sifiso LUKHELE | Kgomotso NKOANA | Confidentiality Category <i>Restricted</i> <i>Project</i> <i>Normal</i> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> |
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Table of modifications

| Rev | Date | Modifications Content | Writer |
|-----|------------|-----------------------|-----------------------|
| A0 | 08/07/2024 | Creation | Tshegofatso SETSHOGWE |

Internal validations

| | Name | Function | Date | Signature |
|-----------------|-----------------------|---------------------|------------|--|
| Creator | Tshegofatso SETSHOGWE | EPU Manager | 08/07/2024 | X  Tshegofatso SETSHOGWE EPU Manager |
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Execution Plan

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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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| Serial Tests Report TS232 – TC1 – VPT RTR Vehicle Pre-Testing Report | Document Reference GIB0000006913 Version: A0 | Emission date 08/07/2024 |
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Serial Tests Report
TS232 – TC1 – VPT
RTR Vehicle Pre-Testing Report

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GIB0000006913
Version: A0


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Section 2 – Protective Bonding

2.1 Instructions list

2.1.1 012-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 | | Anthonia Mabowa - 494131 | 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 | | Anthonia Mabowa - 494131 | TC1 |
| 10003 | A | The Ohmmeter shall be off | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10004 | A | Use the Tool List to record the serial number of the Ohmmeter that will be used for this test | | OK | | Anthonia Mabowa - 494131 | 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 | | Anthonia Mabowa - 494131 | 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 | | Anthonia Mabowa - 494131 | 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 | | Anthonia Mabowa - 494131 | 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 | | Anthonia Mabowa - 494131 | TC1 |
| 10009 | A | Disconnect from the axle box the earthing cable of the 2nd axle of 2nd bogie frame | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10010 | R | Only the earthing cable of the 1st axle of the 1st bogie frame is connected | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10011 | A | Measure the car body to ground impedance | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10012 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.0024 | Anthonia Mabowa - 494131 | TC1 |

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|-------|---|--|--|----|---------|--------------------------|-----|
| 10013 | A | Disconnect the earthing cable of 1st axle of 1st bogie frame | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10014 | A | Connect the earthing cable of the 2nd axle of 2nd bogie frame | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10015 | R | Only the earthing cable of the 2nd axle of the 2nd bogie frame of TC1 car is connected | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10016 | A | Measure the car body to ground impedance | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10017 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.00213 | Anthonia Mabowa - 494131 | TC1 |
| 10018 | A | Connect the earthing cable of the 1st axle of 1st bogie frame | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10019 | I | Earthing of Equipment on the Underframe | | OK | | Anthonia Mabowa - 494131 | 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 | | Anthonia Mabowa - 494131 | TC1 |
| 10021 | R | Auxiliary Converter visually grounded and torque is correctly marked | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10022 | A | Measure the impedance between the Auxiliary Converter Case and the car body | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10023 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.00124 | Anthonia Mabowa - 494131 | 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 | | Anthonia Mabowa - 494131 | TC1 |
| 10025 | R | Battery Box visually grounded and torque is correctly marked | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10026 | A | Measure the impedance between the Battery Box Case and the car body | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10027 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.00146 | Anthonia Mabowa - 494131 | 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 | | Anthonia Mabowa - 494131 | TC1 |
| 10029 | R | Eurobalise Antenna visually grounded and torque is correctly marked | | OK | | Anthonia Mabowa - 494131 | TC1 |

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|-------|---|--|--|----|----------|--------------------------|-----|
| 10030 | A | Measure the impedance between the Eurobalise Antenna and the car body | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10031 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.001337 | Anthonia Mabowa - 494131 | TC1 |
| 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 | | Anthonia Mabowa - 494131 | TC1 |
| 10033 | R | LVB/Brake Module visually grounded and torque is correctly marked | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10034 | A | Measure the impedance between the LVB/Brake and the car body | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10035 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.001603 | Anthonia Mabowa - 494131 | TC1 |
| 10036 | I | Earthing of Equipment on the Exterior | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10037 | I | Exterior Front | | OK | | Anthonia Mabowa - 494131 | 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 | | Anthonia Mabowa - 494131 | TC1 |
| 10039 | R | Front Coupler visually grounded and torque is correctly marked | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10040 | A | Measure the impedance between the Front Coupler and the car body | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10041 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.00306 | Anthonia Mabowa - 494131 | TC1 |
| 10042 | I | Earthing of Equipment on the Roof | | OK | | Anthonia Mabowa - 494131 | 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 | | Anthonia Mabowa - 494131 | TC1 |
| 10044 | R | Saloon HVAC visually grounded and torque is correctly marked | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10045 | A | Measure the impedance between the Saloon HVAC and the car body | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10046 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.001128 | Anthonia Mabowa - 494131 | 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 | | Anthonia Mabowa - 494131 | TC1 |

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|-------|---|---|--|----|----------|--------------------------|-----|
| 10048 | R | Cab HVAC visually grounded and torque is correctly marked | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10049 | A | Measure the impedance between the Cab HVAC and the car body | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10050 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.001537 | Anthonia Mabowa - 494131 | TC1 |
| 10051 | I | Earthing of interior equipment | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10052 | I | Cabin | | OK | | Anthonia Mabowa - 494131 | 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 | | Anthonia Mabowa - 494131 | TC1 |
| 10054 | R | LV1 visually grounded and torque is correctly marked | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10055 | A | Measure the impedance between the LV1 cubicle and the car body | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10056 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.001486 | Anthonia Mabowa - 494131 | 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 | | Anthonia Mabowa - 494131 | TC1 |
| 10058 | R | LV2 visually grounded and torque is correctly marked | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10059 | A | Measure the impedance between the LV2 cubicle and the car body | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10060 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.001431 | Anthonia Mabowa - 494131 | 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 | | Anthonia Mabowa - 494131 | TC1 |
| 10062 | R | Under Desk Left cabinet visually grounded and torque is correctly marked | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10063 | A | Measure the impedance between the Under Desk Left cabinet and the car body | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10064 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.001342 | Anthonia Mabowa - 494131 | TC1 |
| 10065 | A | Visually inspect that the earthing cable connecting Under Desk Middle cabinet to the car body is properly connected and the | | OK | | Anthonia Mabowa - 494131 | TC1 |

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|-------|---|---|--|----|----------|--------------------------|-----|
| | | related bolts are correctly torqued | | | | | |
| 10066 | R | Under Desk Middle cabinet visually grounded and torque is correctly marked | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10067 | A | Measure the impedance between the Under Desk Middle cabinet and the car body | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10068 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.001243 | Anthonia Mabowa - 494131 | TC1 |
| 10069 | A | Measure the impedance between the Master Controller and the car body | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10070 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.00213 | Anthonia Mabowa - 494131 | TC1 |
| 10071 | A | Measure the impedance between the Foot Heater and the car body | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10072 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.001432 | Anthonia Mabowa - 494131 | TC1 |
| 10073 | I | Saloon | | OK | | Anthonia Mabowa - 494131 | 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 | | Anthonia Mabowa - 494131 | TC1 |
| 10075 | R | LV7 visually grounded and torque is correctly marked | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10076 | A | Measure the impedance between the LV7 cubicle and the car body | | OK | | Anthonia Mabowa - 494131 | TC1 |
| 10077 | R | Impedance Result Max : $x \leq 0.05$ (Ohm) | | OK | 0.00241 | Anthonia Mabowa - 494131 | TC1 |




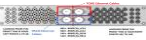
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Section 3 – Reflectometry

3.1 Instructions list

3.1.1 025_NET_054_PIS-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 | | Celiwe Sokhela - 491462 | 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 | | Celiwe Sokhela - 491462 | TC1 |
| 10003 | I | The Cable Analyzer Module DSX-5000 will be used to validate cabling | | OK | | Celiwe Sokhela - 491462 | 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. |  | OK | | Celiwe Sokhela - 491462 | 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 | | Celiwe Sokhela - 491462 | TC1 |
| 10006 | I | Use the pictures below for coupler test | | OK | | Celiwe Sokhela - 491462 | TC1 |
| 10007 | I | Front Coupler |  | OK | | Celiwe Sokhela - 491462 | TC1 |
| 10008 | I | DB9 pin out |  | OK | | Celiwe Sokhela - 491462 | TC1 |
| 10009 | I | TCMS cabling | | OK | | Celiwe Sokhela - 491462 | 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 | | Celiwe Sokhela - 491462 | TC1 |
| 10011 | A | From: [25A15 Train Router Switch (Local: +LV1; Connector: 25XP15_ETH4)] to: [25A11 Ethernet Switch (CRS2) (Local: | | OK | | Celiwe Sokhela - 491462 | TC1 |

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|-------|---|---|--|----|--|----------------------------|-----|
| | | +LV1; Connector: 25XP11_X4]] NOTE: Cable is crossed TSX_TC1_T02 | | | | | |
| 10012 | A | From: [25A11 Ethernet Switch (CRS2) (Local: +LV1; Connector: 25XP11_X3)] to: [25A12 Switch Ethernet (CRS3) (Local: +LV1; Connector: 25XP12_X4)] NOTE: Cable is crossed TSX_TC1_T03 | | OK | | Celiwe Sokhela - 491462 | TC1 |
| 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 | | Celiwe Sokhela - 491462 | 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 | | Celiwe Sokhela - 491462 | 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 | | Celiwe Sokhela - 491462 | 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 | | Celiwe Sokhela - 491462 | 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 | | Celiwe Sokhela - 491462 | TC1 |
| 10018 | A | From: [25A10 Ethernet Switch (CRS1) (Local: +LV7; Connector: 25XP10_X4)] to: [Inter-car (Local: +END2; 90XP11.al)] NOTE: Cable is Straight | | OK | | Celiwe Sokhela - 491462 | TC1 |

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|-------|---|--|--|----|--|-------------------------|-----|
| | | TSX_TC1_T09 | | | | | |
| 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 | | Celiwe Sokhela - 491462 | 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 | | Celiwe Sokhela - 491462 | TC1 |
| 10021 | A | From: [25A15 Train Router Switch (Local: +LV1; Connector: 25XP15_ETH0)] to: [Coupler 041 (Local: CLP; Connector: 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. | | OK | | Celiwe Sokhela - 491462 | TC1 |
| 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 | | Celiwe Sokhela - 491462 | TC1 |
| 10023 | I | Pacis cabling | | OK | | Celiwe Sokhela - 491462 | TC1 |
| 10024 | A | From: [TRS 54A13 (Local: +LV1; Connector: 54XP13_ETH7)] to: [Inter-car (Local: +END2; 90XP12.el)] NOTE: Cable is straight TSX_TC1_P01 | | OK | | Celiwe Sokhela - 491462 | TC1 |
| 10025 | A | From: [CRS1 54A10 (Local: +LV7; Connector: 54XP10_X7)] to: [Inter-car (Local: +END2; 90XP11.el)] NOTE: Cable is crossed TSX_TC1_P02 | | OK | | Celiwe Sokhela - 491462 | TC1 |
| 10026 | A | From: [54A13 TRS (Local: +LV1; Connector: 54XP13_ETH6)] to: [54A10 | | OK | | Celiwe Sokhela - 491462 | TC1 |

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|-------|---|---|--|----|--|-------------------------|-----|
| | | CRS1 (Local: +LV7; Connector: 54XP10_X8)] NOTE: Cable is crossed TSX_TC1_P03 | | | | | |
| 10027 | 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 | | Celiwe Sokhela - 491462 | TC1 |
| 10028 | 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 | | Celiwe Sokhela - 491462 | TC1 |
| 10029 | A | All cables have been validated on TC1 | | OK | | Celiwe Sokhela - 491462 | TC1 |
| 10030 | R | Download all the results from Fluke and save them on PC with folder name "TC1_TSxx" | | OK | | Ntobeko Ndlovu - 421595 | TC1 |

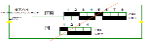
Section 4 – Config

4.1 Instructions list

4.1.1 CONF-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 | | Mphato Mphahlele - 480716 | TC1 |
| 10002 | A | Check continuity between 93XT104_1 pin 50 and Ground point | | OK | | Mphato Mphahlele - 480716 | TC1 |
| 10003 | R | There is no continuity | | OK | | Mphato Mphahlele - 480716 | TC1 |
| 10004 | I | If there is continuity above, the wire 19203LE is pinched on the compressor isolation cock. | | OK | | Mphato Mphahlele - 480716 | TC1 |
| 10005 | A | Check continuity on all pins of connector 90XP15 & 90XP14 to ground | | OK | | Mphato Mphahlele - 480716 | TC1 |
| 10006 | R | There is no continuity except pin 62 of connector 90XP15 | | OK | | Mphato Mphahlele - 480716 | TC1 |
| 10007 | A | Check continuity on all pins of the coupler to ground. | | OK | | Mphato Mphahlele - 480716 | TC1 |
| 10008 | R | There is no continuity | | OK | | Mphato Mphahlele - 480716 | TC1 |
| 10009 | I | Smoke Detector Address Configuration | | OK | | Mphato Mphahlele - 480716 | TC1 |
| 10010 | A | Remove and configure the Smoke Detector 67A4 in the cabin, according to the figure attached. |  | OK | | Mphato Mphahlele - 480716 | TC1 |
| 10011 | A | Reconnect Smoke Detector 67A4 | | OK | | Mphato Mphahlele - 480716 | TC1 |
| 10012 | A | Remove and configure the Smoke Detector 67A2 (+PA1) according to the figure attached. |  | OK | | Mphato Mphahlele - 480716 | TC1 |
| 10013 | A | Reconnect Smoke Detector 67A2 | | OK | | Mphato Mphahlele - 480716 | TC1 |

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|-------|---|---|---|----|-------|---------------------------|-----|
| 10014 | A | Remove and configure the Smoke Detector 67A3 (+PA3) according to the figure attached. |  | OK | | Mphato Mphahlele - 480716 | 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 | 595.6 | Mphato Mphahlele - 480716 | TC1 |
| 10016 | A | Reconnect Smoke Detector 67A3 | | OK | | Mphato Mphahlele - 480716 | TC1 |
| 10017 | I | OTDR LOOP | | OK | | Mphato Mphahlele - 480716 | TC1 |
| 10018 | I | Check the continuity between the following points: | | OK | | Mphato Mphahlele - 480716 | TC1 |
| 10019 | A | From: [61A2 Speed Indicator IN+ (local: +DD4)] to: [Local(+END2) Connector: - 90XP13.b pin1] | | OK | | Mphato Mphahlele - 480716 | TC1 |
| 10020 | A | From: [61A2 Speed Indicator OUT- (local: +DD4)] to: [Local(+END2) Connector: - 90XP13.b pin 2] | | OK | | Mphato Mphahlele - 480716 | TC1 |

Section 5 – Report summaries

5.1 Results status

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

5.2 Tools used

| Function | Tool name | Tool number | Next Calibration date |
|-----------------|------------------------|----------------------|-----------------------|
| 012 | Megger | Megger | 8/25/2025 |
| 025_NET_054_PIS | Cable Analyser DSX5000 | Fluke machine_Gibela | 7/31/2024 |
| CONF | Multimeter | Multimeter 2 | 8/23/2024 |

| Vehicle | Equipment | Expected version | Version loaded |
|---------|-----------|------------------|----------------|
| TC1 | | | |