

PROJECT	CUSTOMER	VEHICLE
Xtrapolis-PRASA	PRASA	281 – M2 – VPT

RTR Vehicle Pre-Testing TS281 M2 Report  
 GIB0000008172



	CREATED	VERIFIED	APPROVED	DISTRIBUTION
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**Table of modifications**

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**Internal validations**

	Name	Function	Date	Signature
<b>Creator</b>	Neliswa MABUNDA	EPU Manager	20/05/2025	X  Neliswa MABUNDA EPU Manager
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**Execution Plan**

<b>Start Date</b>	07/05/2025
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## Section 1 – Purpose / Objectives

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### 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.

### 4. Traction motors

The objective of this procedure is to verify the wiring configuration of the motors. This is to ensure that all the motors are wired the same and shall rotate in the same direction in operation



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## Section 2 – Protective Bonding and Return Current

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### 2.1 Instructions list

### 2.1.1 012\_PB-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		Tebogo Mtombeni 529938 07.05.2025	M2
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		Tebogo Mtombeni 529938 07.05.2025	M2
10003	A	Use the Tool List to record the serial number of the Ohmmeter that will be used in this test		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10004	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		Tebogo Mtombeni 529938 07.05.2025	M2
10005	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		Tebogo Mtombeni 529938 07.05.2025	M2
10006	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		Tebogo Mtombeni 529938 07.05.2025	M2
10007	A	Visually identify and inspect that the earthing cables of the 1st and 2nd axle of the 1st and 2nd Bogie Frame are properly connected to the axle brushes		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10008	A	Disconnect from the axle box the earthing cable of the 1st and 2nd axle of the 1st and 2nd Bogie Frame of the M2 car		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10009	R	All the earthing cables of the M2 car are disconnected.		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10010	A	Connect the earthing cable of the 1st axle in the 1st Bogie Frame		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10011	R	Only the earthing cable of the 1st axle of the 1st Bogie Frame is connected		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10012	A	Using an ohmmeter measure the impedance between the car body to rail		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10013	R	ImpedanceResult Max : $x \leq 0.05$ (Ohms)		OK	0.00325	Tebogo Mtombeni 529938 07.05.2025	M2

10014	A	Disconnect the earthing cable of the 1st axle of the 1st bogie frame		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10015	R	Earthing cable disconnected		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10016	A	Connect the earthing cable of the 2nd axle in the 1st Bogie Frame		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10017	R	Only the earthing cable of the 2nd axle of the 1st Bogie Frame is connected		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10018	A	Using an ohmmeter measure the impedance between the car body to rail		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10019	R	ImpedanceResult Max : $x \leq 0.05$ (Ohms)		OK	0.00739	Tebogo Mtombeni 529938 07.05.2025	M2
10020	R	Earthing cable disconnected		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10021	A	Disconnect the earthing cable of the 2nd axle of the 1st bogie frame		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10022	I	Earthing of Equipment on the Underframe		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10023	A	Connect the earthing cable of the 1st axle in the 2nd Bogie Frame		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10024	R	Only the earthing cable of the 1st axle of the 2nd Bogie Frame is connected		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10025	A	Using an ohmmeter measure the impedance between the car body to rail		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10026	R	ImpedanceResult Max : $x \leq 0.05$ (Ohms)		OK	0.00534	Tebogo Mtombeni 529938 07.05.2025	M2
10027	A	Disconnect the earthing cable of the 1st axle of the 2nd bogie frame		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10028	R	Earthing cable disconnected		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10029	A	Connect the earthing cable of the 2nd axle in the 2nd Bogie Frame		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10030	R	Only the earthing cable of the 1st axle of the 2nd Bogie Frame is connected		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10031	A	Using an ohmmeter measure the impedance between the car body to rail		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10032	R	ImpedanceResult Max : $x \leq 0.05$ (Ohms)		OK	0.00651	Tebogo Mtombeni 529938	M2

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10033	A	Reconnect all earthing cables of the 1st and 2nd axle of the 1st and 2nd Bogie Frame		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10034	R	All earthing cables connected on the 1st and 2nd Bogie Frame		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10035	A	Visually inspect that the earthing cable connecting the Traction Inverter Case to M2 car body is properly connected and related bolts are correctly torqued.		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10036	R	Traction Inverter Case visually grounded and torque is correctly marked		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10037	A	Using an ohmmeter measure the impedance between the Traction Inverter Case and the car body		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10038	R	ImpedanceResult Max : $x \leq 0.05$ (Ohms)		OK	0.00482	Tebogo Mtombeni 529938 07.05.2025	M2
10039	A	Visually inspect that the earthing cable connecting the Line Inductor Case to M4 car body is properly connected and related bolts are correctly torqued.		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10040	R	Line Inductor Case visually grounded and torque is correctly marked		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10041	A	Using an ohmmeter measure the impedance between the Line Inductor Case and the car body		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10042	R	ImpedanceResult Max : $x \leq 0.05$ (Ohms)		OK	0.00098	Tebogo Mtombeni 529938 07.05.2025	M2
10043	A	Visually inspect that the earthing cable connecting the Traction Motors of the 1st and 2nd axle of the 1st Bogie Frame to the car body is properly connected and related bolts are correctly torqued		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10044	R	Traction Motors visually grounded and torque is correctly marked		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10045	A	Using an ohmmeter measure the impedance between the Traction Motors of the 1st and 2nd axle of the 1st Bogie Frame and the car body		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10046	R	ImpedanceResult Max : $x \leq 0.05$ (Ohms)		OK	0.00834	Tebogo Mtombeni 529938 07.05.2025	M2
10047	A	Visually inspect that the earthing cable connecting the Traction Motors of the 1st and 2nd axle of the 2nd Bogie Frame to the car body is properly connected and related bolts are correctly torqued		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10048	R	Traction Motors visually grounded and torque is correctly marked		OK		Tebogo Mtombeni 529938 07.05.2025	M2

10049	A	Using an ohmmeter measure the impedance between the Traction Motors of the 1st and 2nd axle of the 2nd Bogie Frame and the car body	OK		Tebogo Mtombeni 529938 07.05.2025	M2
10050	R	ImpedanceResult Max : $x \leq 0.05$ (Ohms)	OK	0.00739	Tebogo Mtombeni 529938 07.05.2025	M2
10051	I	Earthing of Equipment on the Roof	OK		Tebogo Mtombeni 529938 07.05.2025	M2
10052	A	Visually inspect that the earthing cable connecting the 1st Braking Resistor Box to M2 car body is properly connected and related bolts are correctly torqued.	OK		Tebogo Mtombeni 529938 07.05.2025	M2
10053	R	1st Braking Resistor Box visually grounded and torque is correctly marked	OK		Tebogo Mtombeni 529938 07.05.2025	M2
10054	A	Using an ohmmeter measure the impedance between the 1st Braking Resistor Box and the car body	OK		Tebogo Mtombeni 529938 07.05.2025	M2
10055	R	ImpedanceResult Max : $x \leq 0.05$ (Ohms)	OK	0.00712	Tebogo Mtombeni 529938 07.05.2025	M2
10056	A	Visually inspect that the earthing cable connecting the Saloon HVAC to M2 car body is properly connected and related bolts are correctly torqued.	OK		Tebogo Mtombeni 529938 07.05.2025	M2
10057	R	Saloon HVAC visually grounded and torque is correctly marked	OK		Tebogo Mtombeni 529938 07.05.2025	M2
10058	A	Using an ohmmeter measure the impedance between the Saloon HVAC and the car body	OK		Tebogo Mtombeni 529938 07.05.2025	M2
10059	R	ImpedanceResult Max : $x \leq 0.05$ (Ohms)	OK	0.00692	Tebogo Mtombeni 529938 07.05.2025	M2
10060	A	Visually inspect that the earthing cable connecting the 2nd Braking Resistor Box to M2 car body is properly connected and related bolts are correctly torqued.	OK		Tebogo Mtombeni 529938 07.05.2025	M2
10061	R	2nd Braking Resistor Box visually grounded and torque is correctly marked	OK		Tebogo Mtombeni 529938 07.05.2025	M2
10062	A	Using an ohmmeter measure the impedance between the 2nd Braking Resistor Box and the car body	OK		Tebogo Mtombeni 529938 07.05.2025	M2
10063	R	ImpedanceResult Max : $x \leq 0.05$ (Ohms)	OK	0.00397	Tebogo Mtombeni 529938 07.05.2025	M2



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## Section 3 – Reflectometry

### 3.1 Instructions list

#### 3.1.1 025\_NET-Network Cabling Integrity

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		Anthonia Mabowa 494131 07.05.2025	M2
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		Anthonia Mabowa 494131 07.05.2025	M2
10003	I	The Cable Analyzer Module DSX-5000 will be used to validate cabling		OK		Anthonia Mabowa 494131 07.05.2025	M2
10004	I	Register as a new Operator on the DSX-5000. Check on the manual below on how to register as a new Operator <a href="#">[9-36-52-308048_DSX 5000 User Manual.pdf]</a>		OK		Anthonia Mabowa 494131 07.05.2025	M2
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_M2_P01 for PACIS and TS021_M2_T01 for TCMS.		OK		Anthonia Mabowa 494131 07.05.2025	M2
10006	I	TCMS cabling		OK		Anthonia Mabowa 494131 07.05.2025	M2
10007	A	From: [25A10 SWITCH ETHERNET (CRS1) (Local: +LV3; Connector: 25XP10_X4)] to: [25A11 SWITCH ETHERNET (CRS2) (Local: +LV3; Connector: 25XP11_X3)]  NOTE: Cable is crossed TSX_M2_T01		OK		Anthonia Mabowa 494131 07.05.2025	M2
10008	A	From: [25A10 SWITCH ETHERNET (CRS1) (Local: +LV3; Connector: 25XP10_X3)] to: [Local: END1 , Connector 90XR21.All]  NOTE: Cable is crossed TSX_M2_T02		OK		Anthonia Mabowa 494131 07.05.2025	M2
10009	A	From: [25A14 TBR-M2 (Local: +LV3; Connector: 25XP14_ETH0)] to: [(Local: +END1; Connector: 90XR21.A)]		OK		Anthonia Mabowa 494131 07.05.2025	M2

		NOTE: Cable is crossed TSX_M2_T03					
10010	A	From: [25A14 TBR-M2 (Local: +LV3; Connector: 25XP14_ETH1)] to: [(Local: +END2; Connector: 90XR31.All)]  NOTE: Cable is crossed TSX_M2_T04		OK		Anthonia Mabowa 494131 07.05.2025	M2
10011	A	From: [25A11 Ethernet Switch (Local: +LV3; Connector: 25XP11_X4)] to: [(Local: +END2; Connector: 90XR31.All)]  NOTE: Cable is straight TSX_M2_T05		OK		Anthonia Mabowa 494131 07.05.2025	M2
10012	A	From: [(Local: +END2; Connector: 90XR32.All)] to: [(Local: +END1; Connector: 90XR22.All)]  NOTE: Cable is straight TSX_M2_T06		OK		Anthonia Mabowa 494131 07.05.2025	M2
10013	A	From: [(Local: +END2; Connector: 90XR32.All)] to: [(Local: +END1; Connector: 90XR22.All)]  NOTE: Cable is straight TSX_M2_T07		OK		Anthonia Mabowa 494131 07.05.2025	M2
10014	I	Pacis cabling		OK		Anthonia Mabowa 494131 07.05.2025	M2
10015	A	From: [(Local: +END2; Connector: - 90XR32.El)] to: [(Local: +END1; Connector: -90XR22.El)]  NOTE: Cable is straight TSX_M2_P01		OK		Anthonia Mabowa 494131 07.05.2025	M2
10016	A	From: [54A10 SWITCH ETHERNET (CRS1) (Local: +LV6; Connector: 54XP10_X7)] to: [(Local: +END2; Connector: -90XR31.El)]  NOTE: Cable is crossed TSX_M2_P02		OK		Anthonia Mabowa 494131 07.05.2025	M2
10017	A	From: [54A11 SWITCH ETHERNET (CRS2) (Local: +LV6; Connector: 54XP11_X8)] to: [(Local: +END1; Connector: -90XR21.El)]  NOTE: Cable is straight TSX_M2_P03		OK		Anthonia Mabowa 494131 07.05.2025	M2
10018	A	From: [54A11 SWITCH ETHERNET (CRS2) (Local: +LV6; Connector: 54XP11_X7)] to: [54A10 SWITCH ETHERNET (CRS1) (Local: +LV6; Connector: 54XP10_X8)]  NOTE: Cable is crossed TSX_M2_P04		OK		Anthonia Mabowa 494131 07.05.2025	M2



10019	A	All cables have been validated on M2		OK		Anthonia Mabowa 494131 07.05.2025	M2
10020	R	Download all the results from Fluke and save them on PC with folder name "M2_TSxx"		OK		Ntobeko Ndlovu 421595 08.05.2025	M2

## Section 4 – Config

### 4.1 Instructions list

#### 4.1.1 CONFIG-Vehicle 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		Tebogo Mtombeni 529938 07.05.2025	M2
10002	A	Check continuity on all pins of End 1 connector 90XP15 & 90XP14 to ground		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10003	R	There is no continuity		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10004	A	Check continuity on all pins of End 2 connector 90XP15 & 90XP14 to ground		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10005	R	There is no continuity		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10006	I	Smoke Detector Address Configuration		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10007	A	Remove and configure the Smoke Detector 67A2 (+PA1) according to the figure below.		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10008	A	Reconnect Smoke Detector 67A2		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10009	A	Remove and configure the Smoke Detector 67A3 (+PA3) according to the figure below.		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10010	I	Line Heat Detection		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10011	R	Measure the resistance between point 1 and point 4 of the connector 67XP3_11Result Min/Max : 550<= x<= 700 ( )		OK	650	Neliswa Mabunda 408220 21.05.2025	M2
10012	A	Reconnect Smoke Detector 67A3		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10013	I	OTDR LOOP		OK		Tebogo Mtombeni 529938	M2



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10014	I	Check the continuity between the following points:		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10015	A	From: [ +IV1 (local +END2 Connector 90XR33.B (pin 1))] to: [local +END1 Connector -90XR23.B (pin1)]		OK		Tebogo Mtombeni 529938 07.05.2025	M2
10016	A	From: [ -IV1 (local +END2 Connector 90XR33.B (pin 2))] to: [local +END1 Connector -90XR23.B (pin 2)]		OK		Tebogo Mtombeni 529938 07.05.2025	M2

## Section 5 – Traction Motors

### 5.1 Instructions list

#### 5.1.1 011\_TRM-Traction Motors

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

N°	Type	Instruction	File	Result status	Result value	Operator	Vehicle
10001	I	Traction Motors (SPP = 11)		OK		Anthonia Mabowa 494131 07.05.2025	M2
10002	I	Ensure all the CONNECTORS are fully ASSEMBLED before running a continuity test.		OK		Anthonia Mabowa 494131 07.05.2025	M2
10003	I	The following test is used to confirm the wiring of the traction motors.		OK		Anthonia Mabowa 494131 07.05.2025	M2
10004	I	SAFETY NOTICE: It is important to ensure that there is no 400Vac power supply on the vehicle.		OK		Anthonia Mabowa 494131 07.05.2025	M2
10005	A	Switch OFF the 400Vac power supply at the source and disconnect the supply cables from the vehicle		OK		Anthonia Mabowa 494131 07.05.2025	M2
10006	R	There is no 400Vac available on the vehicle		OK		Anthonia Mabowa 494131 07.05.2025	M2
10007	I	Visual Inspection		OK		Anthonia Mabowa 494131 07.05.2025	M2
10008	I	For motor 1 and motor 2 connect 11XR1 and 11XR2 and visually inspect that the following cables are connected. From -11XR1 connector to -11M1 motor and -11XR2 connector to -11M2 motor respectively. NOTE: the cable configuration should be straight, none should cross the other.		OK		Anthonia Mabowa 494131 07.05.2025	M2
10009	I	Motor 2		OK		Anthonia Mabowa 494131 07.05.2025	M2
10010	R	[-11XR2 connector (local: UND - 11XP2_2.X1 pin 1)] connected to: [-11XT2 motor terminals (U) -11M2].		OK		Anthonia Mabowa 494131 07.05.2025	M2
10011	R	[-11XR2 connector (local: UND - 11XP2_2.X2 pin 1)] connected to: [-11XT2 motor terminals (V) -11M2].		OK		Anthonia Mabowa 494131 07.05.2025	M2

10012	R	[ -11XR2 connector (local: UND - 11XP2_2.X3 pin 1)] connected to: [ - 11XT2 motor terminals (W) -11M2].	OK		Anthonia Mabowa 494131 07.05.2025	M2
10013	R	-11M2 Motor terminals PE connected to - 11GND2.	OK		Anthonia Mabowa 494131 07.05.2025	M2
10014	I	Motor 1	OK		Anthonia Mabowa 494131 07.05.2025	M2
10015	R	[ -11XR1 connector (local: UND - 11XP1_2.X1 pin 1)] connected to: [ - 11XT1 motor terminals (U) -11M1].	OK		Anthonia Mabowa 494131 07.05.2025	M2
10016	R	[ -11XR1 connector (local: UND - 11XP1_2.X2 pin 1)] connected to: [ - 11XT1 motor terminals (V) -11M1].	OK		Anthonia Mabowa 494131 07.05.2025	M2
10017	R	[ -11XR1 connector (local: UND - 11XP1_2.X3 pin 1)] connected to: [ - 11XT1 motor terminals (W) -11M1].	OK		Anthonia Mabowa 494131 07.05.2025	M2
10018	R	-11M1 Motor terminals PE connected to - 11GND1.	OK		Anthonia Mabowa 494131 07.05.2025	M2
10019	I	Visual Inspection	OK		Anthonia Mabowa 494131 07.05.2025	M2
10020	I	For motor 3 and motor 4 connect 11XR3 and 11XR4 and visually inspect that the following cables are connected. From - 11XR3 connector to -11M3 motor and - 11XR4 connector to -11M4 motor respectively. NOTE: the cable configuration should be straight, none should cross the other	OK		Anthonia Mabowa 494131 07.05.2025	M2
10021	I	Motor 3	OK		Anthonia Mabowa 494131 07.05.2025	M2
10022	R	[ -11XR3 connector (local: UND - 11XP3_2.X1 pin 1)] connected to: [ - 11XT3 motor terminals (U) -11M3].	OK		Anthonia Mabowa 494131 07.05.2025	M2
10023	R	[ -11XR3 connector (local: UND - 11XP3_2.X2 pin 1)] connected to: [ - 11XT3 motor terminals (V) -11M3].	OK		Anthonia Mabowa 494131 07.05.2025	M2
10024	R	[ -11XR3 connector (local: UND - 11XP3_2.X3 pin 1)] connected to: [ - 11XT3 motor terminals (W) -11M3].	OK		Anthonia Mabowa 494131 07.05.2025	M2
10025	R	-11M3 Motor terminals PE connected to - 11GND3	OK		Anthonia Mabowa 494131 07.05.2025	M2
10026	I	Motor 4	OK		Anthonia Mabowa 494131 07.05.2025	M2
10027	R	[ -11XR4 connector (local: UND - 11XP4_2.X1 pin 1)] connected to: [ - 11XT4 motor terminals (U) -11M4].	OK		Anthonia Mabowa 494131 07.05.2025	M2
10028	R	[ -11XR4 connector (local: UND - 11XP4_2.X2 pin 1)] connected to: [ - 11XT4 motor terminals (V) -11M4].	OK		Anthonia Mabowa 494131 07.05.2025	M2



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GIB0000008172  
Version: A0

Emission date  
20/05/2025

10029	R	[ -11XR4 connector (local: UND - 11XP4_2.X3 pin 1)] connected to: [ - 11XT4 motor terminals (W) -11M4].		OK		Anthonia Mabowa 494131 07.05.2025	M2
10030	R	-11M4 Motor terminals PE connected to - 11GND4.		OK		Anthonia Mabowa 494131 07.05.2025	M2

## Section 6 – Report summaries

### 6.1 Results status

Test Instruction Sheet	Compliant	Incomplete	Non-compliant
Protective Bonding and Return Current	X		
Reflectometry	X		
Config	X		
Traction Motors	X		

### 6.2 Tools used

Function	Tool name	Tool number	Next Calibration date
012_PB	Megger	Megger	8/25/2025
025_NET	Cable Analyser DSX5000	Fluke machine_Gibela	12/31/2025
CONFIG	Multimeter	Multimeter 6	9/30/2025

Vehicle	Equipment	Expected version	Version loaded
104771001-104771642-281-263			