

PROJECT	CUSTOMER	VEHICLE
Xtrapolis-PRASA	PRASA	284 – M1 – VPT

RTR Vehicle Pre-Testing TS284 M1 Report
 GIB0000008219



	CREATED	VERIFIED	APPROVED	DISTRIBUTION
Name	Tshegofatso SETSHOGWE	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"/>
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Table of modifications

Rev	Date	Modifications Content	Writer
A0	10/06/2025	Creation	Tshegofatso SETSHOGWE

Internal validations

	Name	Function	Date	Signature
Creator	Tshegofatso SETSHOGWE	EPU Manager	10/06/2025	X  Tshegofatso SETSHOGWE EPU Manager
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Execution Plan

Start Date	28/05/2025
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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.

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

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		Dilikani Ngubane 526515 20.05.2025	M1
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		Dilikani Ngubane 526515 20.05.2025	M1
10003	A	Use the Tool List to record the serial number of the Ohmmeter that will be used in this test		OK		Dilikani Ngubane 526515 20.05.2025	M1
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		Dilikani Ngubane 526515 20.05.2025	M1
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		Dilikani Ngubane 526515 20.05.2025	M1
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		Dilikani Ngubane 526515 20.05.2025	M1
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		Dilikani Ngubane 526515 20.05.2025	M1
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 M1 car		OK		Dilikani Ngubane 526515 20.05.2025	M1
10009	R	All the earthing cables of the M1 car are disconnected		OK		Dilikani Ngubane 526515 20.05.2025	M1
10010	A	Connect the earthing cable of the 1st axle in the 1st Bogie Frame		OK		Dilikani Ngubane 526515 20.05.2025	M1
10011	R	Only the earthing cable of the 1st axle of the 1st Bogie Frame is connected		OK		Dilikani Ngubane 526515 20.05.2025	M1
10012	A	Using an ohmmeter measure the impedance between the car body to rail		OK		Dilikani Ngubane 526515 20.05.2025	M1
10013	R	ImpedanceResult Max : $x \leq 0.05$ (Ohms)		OK	0.000437	Dilikani Ngubane 526515 20.05.2025	M1

10014	A	Disconnect the earthing cable of the 1st axle of the 1st bogie frame		OK		Dilikani Ngubane 526515 20.05.2025	M1
10015	R	Earthing cable disconnected		OK		Dilikani Ngubane 526515 20.05.2025	M1
10016	A	Connect the earthing cable of the 2nd axle in the 1st Bogie Frame		OK		Dilikani Ngubane 526515 20.05.2025	M1
10017	R	Only the earthing cable of the 2nd axle of the 1st Bogie Frame is connected		OK		Dilikani Ngubane 526515 20.05.2025	M1
10018	A	Using an ohmmeter measure the impedance between the car body to rail		OK		Dilikani Ngubane 526515 20.05.2025	M1
10019	R	ImpedanceResult Max : $x \leq 0.05$ (Ohms)		OK	0.000471	Dilikani Ngubane 526515 20.05.2025	M1
10020	R	Earthing cable disconnected		OK		Dilikani Ngubane 526515 20.05.2025	M1
10021	A	Disconnect the earthing cable of the 2nd axle of the 1st bogie frame		OK		Dilikani Ngubane 526515 20.05.2025	M1
10022	I	Earthing of Equipment on the Underframe		OK		Dilikani Ngubane 526515 20.05.2025	M1
10023	A	Connect the earthing cable of the 1st axle in the 2nd Bogie Frame		OK		Dilikani Ngubane 526515 20.05.2025	M1
10024	R	Only the earthing cable of the 1st axle of the 2nd Bogie Frame is connected		OK		Dilikani Ngubane 526515 20.05.2025	M1
10025	A	Using an ohmmeter measure the impedance between the car body to rail		OK		Dilikani Ngubane 526515 20.05.2025	M1
10026	R	ImpedanceResult Max : $x \leq 0.05$ (Ohms)		OK	0.000391	Dilikani Ngubane 526515 20.05.2025	M1
10027	A	Disconnect the earthing cable of the 1st axle of the 2nd bogie frame		OK		Dilikani Ngubane 526515 20.05.2025	M1
10028	R	Earthing cable disconnected		OK		Dilikani Ngubane 526515 20.05.2025	M1
10029	A	Connect the earthing cable of the 2nd axle in the 2nd Bogie Frame		OK		Dilikani Ngubane 526515 20.05.2025	M1
10030	R	Only the earthing cable of the 1st axle of the 2nd Bogie Frame is connected		OK		Dilikani Ngubane 526515 20.05.2025	M1
10031	A	Using an ohmmeter measure the impedance between the car body to rail		OK		Dilikani Ngubane 526515 20.05.2025	M1
10032	R	ImpedanceResult Max : $x \leq 0.05$ (Ohms)		OK	0.000451	Dilikani Ngubane 526515	M1

						20.05.2025	
10033	A	Reconnect all earthing cables of the 1st and 2nd axle of the 1st and 2nd Bogie Frame		OK		Dilikani Ngubane 526515 20.05.2025	M1
10034	R	All earthing cables connected on the 1st and 2nd Bogie Frame		OK		Dilikani Ngubane 526515 20.05.2025	M1
10035	A	Visually inspect that the earthing cable connecting the Traction Inverter Case to M1 car body is properly connected and related bolts are correctly torqued		OK		Dilikani Ngubane 526515 20.05.2025	M1
10036	R	Traction Inverter Case visually grounded and torque is correctly marked		OK		Dilikani Ngubane 526515 20.05.2025	M1
10037	A	Using an ohmmeter measure the impedance between the Traction Inverter Case and the car body		OK		Dilikani Ngubane 526515 20.05.2025	M1
10038	R	ImpedanceResult Max : $x \leq 0.05$ (Ohms)		OK	0.000294	Dilikani Ngubane 526515 20.05.2025	M1
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		Dilikani Ngubane 526515 20.05.2025	M1
10040	R	Line Inductor Case visually grounded and torque is correctly marked		OK		Dilikani Ngubane 526515 20.05.2025	M1
10041	A	Using an ohmmeter measure the impedance between the Line Inductor Case and the car body		OK		Dilikani Ngubane 526515 20.05.2025	M1
10042	R	ImpedanceResult Max : $x \leq 0.05$ (Ohms)		OK	0.000368	Dilikani Ngubane 526515 20.05.2025	M1
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		Dilikani Ngubane 526515 20.05.2025	M1
10044	R	Traction Motors visually grounded and torque is correctly marked		OK		Dilikani Ngubane 526515 20.05.2025	M1
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		Dilikani Ngubane 526515 20.05.2025	M1
10046	R	ImpedanceResult Max : $x \leq 0.05$ (Ohms)		OK	0.000352	Dilikani Ngubane 526515 20.05.2025	M1
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		Dilikani Ngubane 526515 20.05.2025	M1
10048	R	Traction Motors visually grounded and torque is correctly marked		OK		Dilikani Ngubane 526515 20.05.2025	M1

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		Dilikani Ngubane 526515 20.05.2025	M1
10050	R	ImpedanceResult Max : $x \leq 0.05$ (Ohms)		OK	0.000327	Dilikani Ngubane 526515 20.05.2025	M1
10051	I	Earthing of Equipment on the Roof		OK		Dilikani Ngubane 526515 20.05.2025	M1
10052	A	Visually inspect that the earthing cable connecting the 1st Braking Resistor Box to M1 car body is properly connected and related bolts are correctly torqued		OK		Dilikani Ngubane 526515 20.05.2025	M1
10053	R	1st Braking Resistor Box visually grounded and torque is correctly marked		OK		Dilikani Ngubane 526515 20.05.2025	M1
10054	A	Using an ohmmeter measure the impedance between the 1st Braking Resistor Box and the car body		OK		Dilikani Ngubane 526515 20.05.2025	M1
10055	R	ImpedanceResult Max : $x \leq 0.05$ (Ohms)		OK	0.000472	Dilikani Ngubane 526515 20.05.2025	M1
10056	A	Visually inspect that the earthing cable connecting the Saloon HVAC to M1 car body is properly connected and related bolts are correctly torqued		OK		Dilikani Ngubane 526515 20.05.2025	M1
10057	R	Saloon HVAC visually grounded and torque is correctly marked		OK		Dilikani Ngubane 526515 20.05.2025	M1
10058	A	Using an ohmmeter measure the impedance between the Saloon HVAC and the car body		OK		Dilikani Ngubane 526515 20.05.2025	M1
10059	R	ImpedanceResult Max : $x \leq 0.05$ (Ohms)		OK	0.000374	Dilikani Ngubane 526515 20.05.2025	M1
10060	A	Visually inspect that the earthing cable connecting the 2nd Braking Resistor Box to M1 car body is properly connected and related bolts are correctly torqued		OK		Dilikani Ngubane 526515 20.05.2025	M1
10061	R	2nd Braking Resistor Box visually grounded and torque is correctly marked		OK		Dilikani Ngubane 526515 20.05.2025	M1
10062	A	Using an ohmmeter measure the impedance between the 2nd Braking Resistor Box and the car body		OK		Dilikani Ngubane 526515 20.05.2025	M1
10063	R	ImpedanceResult Max : $x \leq 0.05$ (Ohms)		OK	0.000453	Dilikani Ngubane 526515 20.05.2025	M1



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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		Celiwe Sokhela 491462 20.05.2025	M1
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 20.05.2025	M1
10003	I	The Cable Analyzer Module DSX-5000 will be used to validate cabling		OK		Celiwe Sokhela 491462 20.05.2025	M1
10004	I	First time user should register as a new Operator on the DSX-5000. Check on the manual on how to register as a new Operator. [8-0-27-308046_DSX 5000 User Manual.pdf]		OK		Celiwe Sokhela 491462 20.05.2025	M1
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_M1_P01 for PACIS and TS021_M1_T01 for TCMS.		OK		Celiwe Sokhela 491462 20.05.2025	M1
10006	I	TCMS cabling		OK		Celiwe Sokhela 491462 20.05.2025	M1
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_M1_T01		OK		Celiwe Sokhela 491462 20.05.2025	M1
10008	A	From: [25A11 Ethernet Switch (Local: +LV3; Connector: 25XP11_X4)] to: [Intercar (Local: +END2; Connector: 90XP32.all)] NOTE: Cable is straight TSX_M1_T02		OK		Celiwe Sokhela 491462 20.05.2025	M1
10009	A	From: [25A14 TBR-M1 (Local: +LV3; Connector: 25XP14_ETH1)] to: [Intercar		OK		Celiwe Sokhela 491462	M1

		(Local: +END2; Connector: 90XP32.al) NOTE: Cable is crossed TSX_M1_T03				20.05.2025	
10010	A	From: [25A10 Ethernet Switch (Local: +LV3; Connector: 25XP10_X5)] to: [(Local: +END2; Connector: 90XP31.el)] NOTE: Cable is crossed TSX_M1_T04		OK		Celiwe Sokhela 491462 20.05.2025	M1
10011	A	From: [25A14 TBR-M1 (Local: +LV3; Connector: 25XP14_ETH0)] to: [Intercar (Local: +END1; Connector: 90XP21.All)] NOTE: Cable is crossed TSX_M1_T05		OK		Celiwe Sokhela 491462 20.05.2025	M1
10012	A	From: [25A10 Ethernet Switch (Local: +LV3; Connector: 25XP10_X3)] to: [(Local: +END1; Connector: 90XP21.All)] NOTE: Cable is crossed TSX_M1_T06		OK		Celiwe Sokhela 491462 20.05.2025	M1
10013	A	From: [(Local: +END1; Connector: 90XR22.All)] to: [Intercar (Local: +END2; Connector: 90XP31.all)] NOTE: Cable is straight TSX_M1_T07		OK		Celiwe Sokhela 491462 20.05.2025	M1
10014	A	From: [(Local: +END1; Connector: 90XR22.All)] to: [Intercar (Local: +END2; Connector: 90XP31.al)] NOTE: Cable is straight TSX_M1_T08		OK		Celiwe Sokhela 491462 20.05.2025	M1
10015	I	Pacis cabling		OK		Celiwe Sokhela 491462 20.05.2025	M1
10016	A	From: [(Local: +END1; Connector: 90XR22.El)] to: [Intercar (Local: +END2; Connector: -90XP31.el)] NOTE: Cable is straight TSX_M1_P01		OK		Celiwe Sokhela 491462 20.05.2025	M1
10017	A	From: [54A11 SWITCH ETHERNET (CRS2) (Local: +LV6; Connector: 54XP11_X8)] to: [(Local: +END1; Connector: 90XR21.El)] NOTE: Cable is straight TSX_M1_P02		OK		Celiwe Sokhela 491462 20.05.2025	M1
10018	A	From: [54A10 SWITCH ETHERNET (CRS1) (Local: +LV6; Connector: 54XP10_X7)] to: [(Local: +END2; Connector: 90XP32.el)] NOTE: Cable is crossed TSX_M1_P03		OK		Celiwe Sokhela 491462 20.05.2025	M1

10019	A	From: [54A10 CRS1 (Local:+LV6; Connector 54XP10_X8)] to: [54A11 CRS2 (Local:+LV6; Connector 54XP11_X7)] NOTE: Cable is crossed TSX_M1_P04		OK		Celiwe Sokhela 491462 20.05.2025	M1
10020	A	All cables have been validated on M1		OK		Celiwe Sokhela 491462 20.05.2025	M1
10021	R	Download all the results from Fluke and save them on PC with folder name "M1_TSxx"		OK		Tshegofatso Setshogwe 404572 10.06.2025	M1

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		Celiwe Sokhela 491462 20.05.2025	M1
10002	A	Check continuity on all pins of End 1 connector 90XP15 & 90XP14 to ground		OK		Celiwe Sokhela 491462 20.05.2025	M1
10003	R	There is no continuity		OK		Celiwe Sokhela 491462 20.05.2025	M1
10004	A	Check continuity on all pins of End 2 connector 90XP15 & 90XP14 to ground		OK		Celiwe Sokhela 491462 20.05.2025	M1
10005	R	There is no continuity		OK		Celiwe Sokhela 491462 20.05.2025	M1
10006	I	Fire Detection_67		OK		Celiwe Sokhela 491462 20.05.2025	M1
10007	I	Smoke Detector Address Configuration		OK		Celiwe Sokhela 491462 20.05.2025	M1
10008	A	Remove and configure the Smoke Detector 67A2 (+PA1) according to the figure attached.		OK		Celiwe Sokhela 491462 20.05.2025	M1
10009	A	Reconnect Smoke Detector 67A2		OK		Celiwe Sokhela 491462 20.05.2025	M1
10010	A	Remove and configure the Smoke Detector 67A3 (+PA3) according to the figure below		OK		Celiwe Sokhela 491462 20.05.2025	M1
10011	I	Line Heat Detection		OK		Celiwe Sokhela 491462 20.05.2025	M1
10012	A	Measure the resistance between point 1 and point 4 of the connector 67XP3_11		OK		Celiwe Sokhela 491462 20.05.2025	M1
10013	R	About 700 Ohms measured Result Min/Max : 550<= x<= 700 ()		OK	591.2	Celiwe Sokhela 491462 20.05.2025	M1

10014	A	Reconnect Smoke Detector 67A3		OK		Celiwe Sokhela 491462 20.05.2025	M1
10015	I	OTDR LOOP		OK		Celiwe Sokhela 491462 20.05.2025	M1
10016	I	Check continuity on the following points:		OK		Celiwe Sokhela 491462 20.05.2025	M1
10017	A	From : [+IV1(local: +END1 Connector 90XR23.B(pin1))] to: [(local: +END2 Connector -93XR833.B (pin 1))]		OK		Celiwe Sokhela 491462 20.05.2025	M1
10018	A	From : [-IV1 (local: +END1 Connector 90XR23.B(pin2))] to: [(local: +END2 Connector -93XR833.B (pin 2))]		OK		Celiwe Sokhela 491462 20.05.2025	M1

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		Dilikani Ngubane 526515 20.05.2025	M1
10002	I	Ensure all the CONNECTORS are fully ASSEMBLED before running a continuity test.		OK		Dilikani Ngubane 526515 20.05.2025	M1
10003	I	The following test is used to confirm the wiring of the traction motors.		OK		Dilikani Ngubane 526515 20.05.2025	M1
10004	I	SAFETY NOTICE: It is important to ensure that there is no 400Vac power supply on the vehicle.		OK		Dilikani Ngubane 526515 20.05.2025	M1
10005	A	Switch OFF the 400Vac power supply at the source and disconnect the supply cables from the vehicle		OK		Dilikani Ngubane 526515 20.05.2025	M1
10006	R	There is no 400Vac available on the vehicle		OK		Dilikani Ngubane 526515 20.05.2025	M1
10007	I	Visual Inspection		OK		Dilikani Ngubane 526515 20.05.2025	M1
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		Dilikani Ngubane 526515 20.05.2025	M1
10009	I	Motor 2		OK		Dilikani Ngubane 526515 20.05.2025	M1
10010	R	[-11XR2 connector (local: UND - 11XP2_2.X1 pin 1)] connected to: [-11XT2 motor terminals (U) -11M2].		OK		Dilikani Ngubane 526515 20.05.2025	M1
10011	R	[-11XR2 connector (local: UND - 11XP2_2.X2 pin 1)] connected to: [-11XT2 motor terminals (V) -11M2].		OK		Dilikani Ngubane 526515 20.05.2025	M1

10012	R	[-11XR2 connector (local: UND - 11XP2_2.X3 pin 1)] connected to: [- 11XT2 motor terminals (W) -11M2].	OK		Dilikani Ngubane 526515 20.05.2025	M1
10013	R	-11M2 Motor terminals PE connected to - 11GND2.	OK		Dilikani Ngubane 526515 20.05.2025	M1
10014	I	Motor 1	OK		Dilikani Ngubane 526515 20.05.2025	M1
10015	R	[-11XR1 connector (local: UND - 11XP1_2.X1 pin 1)] connected to: [- 11XT1 motor terminals (U) -11M1].	OK		Dilikani Ngubane 526515 20.05.2025	M1
10016	R	[-11XR1 connector (local: UND - 11XP1_2.X2 pin 1)] connected to: [- 11XT1 motor terminals (V) -11M1].	OK		Dilikani Ngubane 526515 20.05.2025	M1
10017	R	[-11XR1 connector (local: UND - 11XP1_2.X3 pin 1)] connected to: [- 11XT1 motor terminals (W) -11M1].	OK		Dilikani Ngubane 526515 20.05.2025	M1
10018	R	-11M1 Motor terminals PE connected to - 11GND1.	OK		Dilikani Ngubane 526515 20.05.2025	M1
10019	I	Visual Inspection	OK		Dilikani Ngubane 526515 20.05.2025	M1
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		Dilikani Ngubane 526515 20.05.2025	M1
10021	I	Motor 3	OK		Dilikani Ngubane 526515 20.05.2025	M1
10022	R	[-11XR3 connector (local: UND - 11XP3_2.X1 pin 1)] connected to: [- 11XT3 motor terminals (U) -11M3].	OK		Dilikani Ngubane 526515 20.05.2025	M1
10023	R	[-11XR3 connector (local: UND - 11XP3_2.X2 pin 1)] connected to: [- 11XT3 motor terminals (V) -11M3].	OK		Dilikani Ngubane 526515 20.05.2025	M1
10024	R	[-11XR3 connector (local: UND - 11XP3_2.X3 pin 1)] connected to: [- 11XT3 motor terminals (W) -11M3].	OK		Dilikani Ngubane 526515 20.05.2025	M1
10025	R	-11M3 Motor terminals PE connected to - 11GND3	OK		Dilikani Ngubane 526515 20.05.2025	M1
10026	I	Motor 4	OK		Dilikani Ngubane 526515 20.05.2025	M1
10027	R	[-11XR4 connector (local: UND - 11XP4_2.X1 pin 1)] connected to: [- 11XT4 motor terminals (U) -11M4].	OK		Dilikani Ngubane 526515 20.05.2025	M1
10028	R	[-11XR4 connector (local: UND - 11XP4_2.X2 pin 1)] connected to: [- 11XT4 motor terminals (V) -11M4].	OK		Dilikani Ngubane 526515 20.05.2025	M1



10029	R	[-11XR4 connector (local: UND - 11XP4_2.X3 pin 1)] connected to: [- 11XT4 motor terminals (W) -11M4].		OK		Dilikani Ngubane 526515 20.05.2025	M1
10030	R	-11M4 Motor terminals PE connected to - 11GND4.		OK		Dilikani Ngubane 526515 20.05.2025	M1

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

Vehicle	Equipment	Expected version	Version loaded
104771010-104771639-284-266			