

Document Reference GIB0000006491 Version: A0 Emission date 23/05/2024

PROJECT	CUSTOMER	VEHICLE
Xtrapolis-PRASA	PRASA	223 – M4 – VPT

RTR Vehicle Pre-Testing TS223 M4 Report GIB0000006491



	CREATED	VERIFIED	APPROVED	DISTRIBUTION	
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Date	23/05/2024	23/05/2024	23/05/2024	Control Category Controlled Not Controlled	
Signature	BALL.			Language EN	

This report has been automatically generated from TES version 1.



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Table of modifications

Rev	Date	Modifications Content	Writer
Ao	23/05/2024	Creation	Nhlakanipho MASONDO

Internal validations

	Name	Function	Date	Signature
Creator	Nhlakanipho MASONDO	EPU Manager	23/05/2024	X Parks. Nhlakanipho MASONDO EPU Manager
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Execution Plan

Start Date	15/05/2024
End Date	15/05/2024

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Section 1 – Purpose / Objectives



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Section 2 - Protective Bonding and Return Current

2.3 Instructions list

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2.3.1 012_PB-Protective Bonding and Return Current

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

N°	Туре	Instruction	File	Result status	Result value	Operator	Vehicle
10001	I	Return Circuit: Car Body to Ground		ок		Mbavhalelo Funyufunyu - 484649	M4
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		ок		Mbavhalelo Funyufunyu - 484649	M4
10003	А	Use the Tool List to record the serial number of the Ohmmeter that will be used in this test		ОК		Mbavhalelo Funyufunyu - 484649	M4
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.		ОК		Mbavhalelo Funyufunyu - 484649	M4
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		ОК		Mbavhalelo Funyufunyu - 484649	M4
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.		ОК		Mbavhalelo Funyufunyu - 484649	M4
10007	А	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	<u>-</u>	ОК		Mbavhalelo Funyufunyu - 484649	M4
10008	А	Disconnect from the axle box the earthing cable of the 1st and 2nd axle of the 1st and 2nd Bogie Frame of the M4 car		ОК		Mbavhalelo Funyufunyu - 484649	M4
10009	R	All the earthing cables of the M4 car are disconnected		ОК		Mbavhalelo Funyufunyu - 484649	M4
10010	А	Connect the earthing cable of the 1st axle in the 1st Bogie Frame		ОК		Mbavhalelo Funyufunyu - 484649	M4



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10011	R	Only the earthing cable of the 1st axle of the 1st Bogie Frame is connected	ок		Mbavhalelo Funyufunyu - 484649	M4
10012	А	Using an ohmmeter measure the impedance between the car body to rail	ОК		Mbavhalelo Funyufunyu - 484649	M4
10013	R	Impedance Result Max: x <= 0.05 (Ohm)	ОК	0.00045	Mbavhalelo Funyufunyu - 484649	M4
10014	А	Disconnect the earthing cable of the 1st axle of the 1st bogie frame	ОК		Mbavhalelo Funyufunyu - 484649	M4
10015	R	Earthing cable disconnected	ОК		Mbavhalelo Funyufunyu - 484649	M4
10016	А	Connect the earthing cable of the 2nd axle in the 1st Bogie Frame	ОК		Mbavhalelo Funyufunyu - 484649	M4
10017	R	Only the earthing cable of the 2nd axle of the 1st Bogie Frame is connected	ОК		Mbavhalelo Funyufunyu - 484649	M4
10018	А	Using an ohmmeter measure the impedance between the car body to rail	ОК		Mbavhalelo Funyufunyu - 484649	M4
10019	R	Impedance Result Max: x <= 0.05 (Ohm)	ОК	0.00034	Mbavhalelo Funyufunyu - 484649	M4
10020	R	Earthing cable disconnected	ок		Mbavhalelo Funyufunyu - 484649	M4
10021	А	Disconnect the earthing cable of the 2nd axle of the 1st bogie frame	ОК		Mbavhalelo Funyufunyu - 484649	M4
10022	I	Earthing of Equipment on the Underframe	ОК		Mbavhalelo Funyufunyu - 484649	M4
10023	А	Connect the earthing cable of the 1st axle in the 2nd Bogie Frame	ОК		Mbavhalelo Funyufunyu - 484649	M4
10024	R	Only the earthing cable of the 1st axle of the 2nd Bogie Frame is connected	ОК		Mbavhalelo Funyufunyu - 484649	M4
10025	А	Using an ohmmeter measure the impedance between the car body to rail	ОК		Mbavhalelo Funyufunyu - 484649	M4
10026	R	Impedance Result Max: x <= 0.05 (Ohm)	ОК	0.00017	Mbavhalelo Funyufunyu - 484649	M4
10027	А	Disconnect the earthing cable of the 1st axle of the 2nd bogie frame	ОК		Mbavhalelo Funyufunyu - 484649	M4
10028	R	Earthing cable disconnected	ОК		Mbavhalelo Funyufunyu - 484649	M4
10029	А	Connect the earthing cable of the 2nd axle in the 2nd Bogie Frame	ОК		Mbavhalelo Funyufunyu - 484649	M4



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10030	R	Only the earthing cable of the 1st axle of the 2nd Bogie Frame is connected	ОК		Mbavhalelo Funyufunyu - 484649	M4
10031	А	Using an ohmmeter measure the impedance between the car body to rail	ОК		Mbavhalelo Funyufunyu - 484649	M4
10032	R	Impedance Result Max: x <= 0.05 (Ohm)	ОК	0.00087	Mbavhalelo Funyufunyu - 484649	M4
10033	А	Reconnect all earthing cables of the 1st and 2nd axle of the 1st and 2nd Bogie Frame	ок		Mbavhalelo Funyufunyu - 484649	M4
10034	R	All earthing cables connected on the 1st and 2nd Bogie Frame	ОК		Mbavhalelo Funyufunyu - 484649	M4
10035	А	Visually inspect that the earthing cable connecting the Traction Inverter Case to M4 car body is properly connected and related bolts are correctly torqued	ОК		Mbavhalelo Funyufunyu - 484649	M4
10036	R	Traction Inverter Case visually grounded and torque is correctly marked	ОК		Mbavhalelo Funyufunyu - 484649	M4
10037	А	Using an ohmmeter measure the impedance between the Traction Inverter Case and the car body	ОК		Mbavhalelo Funyufunyu - 484649	M4
10038	R	Impedance Result Max: x <= 0.05 (Ohm)	ОК	0.00049	Mbavhalelo Funyufunyu - 484649	M4
10039	А	Visually inspect that the earthing cable connecting the Line Inductor Case to M4 car body is properly connected and related bolts are correctly torqued.	ОК		Mbavhalelo Funyufunyu - 484649	M4
10040	R	Line Inductor Case visually grounded and torque is correctly marked	ОК		Mbavhalelo Funyufunyu - 484649	M4
10041	А	Using an ohmmeter measure the impedance between the Line Inductor Case and the car body	ОК		Mbavhalelo Funyufunyu - 484649	M4
10042	R	Impedance Result Max: x <= 0.05 (Ohm)	ОК	0.00092	Mbavhalelo Funyufunyu - 484649	M4
10043	А	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.	ОК		Mbavhalelo Funyufunyu - 484649	M4
10044	R	Traction Motors visually grounded and torque is correctly marked	ОК		Mbavhalelo Funyufunyu - 484649	M4



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10045	А	Using an ohmmeter measure the impedance between the Traction Motor of the 1st and 2nd axle of the 1st Bogie Frame and the car body	ОК		Mbavhalelo Funyufunyu - 484649	M4
10046	R	Impedance Result Max: x <= 0.05 (Ohm)	ок	0.00032	Mbavhalelo Funyufunyu - 484649	M4
10047	А	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		Mbavhalelo Funyufunyu - 484649	M4
10048	R	Traction Motors visually grounded and torque is correctly marked	ОК		Mbavhalelo Funyufunyu - 484649	M4
10049	А	Using an ohmmeter measure the impedance between the Traction Motor of the 1st and 2nd axle of the 2nd Bogie Frame and the car body	OK		Mbavhalelo Funyufunyu - 484649	M4
10050	R	Impedance Result Max: x <= 0.05 (Ohm)	ок	0.00045	Mbavhalelo Funyufunyu - 484649	M4
10051	I	Earthing of Interior Equipment	ОК		Mbavhalelo Funyufunyu - 484649	M4
10052	А	Visually inspect that the earthing cable connecting the LV3 cubicle, and the car body is properly connected and related bolts are correctly torqued	OK		Mbavhalelo Funyufunyu - 484649	M4
10053	R	LV3 cubicle visually grounded and torque is correctly marked	ОК		Mbavhalelo Funyufunyu - 484649	M4
10054	А	Using an ohmmeter measure the impedance between the LV3 cubicle and the car body	ОК		Mbavhalelo Funyufunyu - 484649	M4
10055	R	Impedance Result Max: x <= 0.05 (Ohm)	ок	0.00082	Mbavhalelo Funyufunyu - 484649	M4
10056	А	Visually inspect that the earthing cable connecting the LV6 cubicle, and the car body is properly connected and related bolts are correctly torqued	ОК		Mbavhalelo Funyufunyu - 484649	M4
10057	R	LV6 cubicle visually grounded and torque is correctly marked	ОК		Mbavhalelo Funyufunyu - 484649	M4
10058	А	Using an ohmmeter measure the impedance between the LV6 cubicle and the car body	ок		Mbavhalelo Funyufunyu - 484649	M4
10059	R	Impedance Result Max: x <= 0.05 (Ohm)	ОК	0.00057	Mbavhalelo Funyufunyu - 484649	M4



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10060	1	Earthing of Equipment on the Roof	ОК		Mbavhalelo Funyufunyu - 484649	M4
10061	А	Visually inspect that the earthing cable connecting the 1st Braking Resistor Box to M4 car body is properly connected and related bolts are correctly torqued	OK		Mbavhalelo Funyufunyu - 484649	M4
10062	R	1st Braking Resistor Box visually grounded and torque is correctly marked	ОК		Mbavhalelo Funyufunyu - 484649	M4
10063	А	Using an ohmmeter measure the impedance between the 1st Braking Resistor Box and the car body	ОК		Mbavhalelo Funyufunyu - 484649	M4
10064	R	Impedance Result Max: x <= 0.05 (Ohm)	ок	0.00039	Mbavhalelo Funyufunyu - 484649	M4
10065	А	Visually inspect that the earthing cable connecting the Saloon HVAC to M4 car body is properly connected and related bolts are correctly torqued	OK		Mbavhalelo Funyufunyu - 484649	M4
10066	R	Saloon HVAC visually grounded and torque is correctly marked	ОК		Mbavhalelo Funyufunyu - 484649	M4
10067	А	Using an ohmmeter measure the impedance between the Saloon HVAC and the car body	ок		Mbavhalelo Funyufunyu - 484649	M4
10068	R	Impedance Result Max: x <= 0.05 (Ohm)	ок	0.00028	Mbavhalelo Funyufunyu - 484649	M4
10069	А	Visually inspect that the earthing cable connecting the 2nd Braking Resistor Box to M4 car body is properly connected and related bolts are correctly torqued	ОК		Mbavhalelo Funyufunyu - 484649	M4
10070	R	2nd Braking Resistor Box visually grounded and torque is correctly marked	ОК		Mbavhalelo Funyufunyu - 484649	M4
10071	А	Using an ohmmeter measure the impedance between the 1st Braking Resistor Box and the car body	ОК		Mbavhalelo Funyufunyu - 484649	M4
10072	R	Impedance Result Max: x <= 0.05 (Ohm)	ОК	0.00034	Mbavhalelo Funyufunyu - 484649	M4



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Section 3 – Reflectometry

3.3 Instructions list

3.3.1 025_NET_054_PIS-Network Cabling Integrity

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

N°	Туре	Instruction	File	Result status	Result value	Operator	Vehicle
10001	I	Network Cabling Integrity Test		ОК		Amanda Ntuli - 526239	M4
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.		ОК		Amanda Ntuli - 526239	M4
10003	I	The Cable Analyzer Module DSX-5000 will be used to validate cabling		ОК		Amanda Ntuli - 526239	M4
10004	I	Register as a new Operator on the DSX-5000. Check on the manual below on how to register as a new Operator	×	ОК		Amanda Ntuli - 526239	M4
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. TSO21_P01 for PACIS and TSO21_T01 for TCMS.		ОК		Amanda Ntuli - 526239	M4
10006	I	TCMS cabling		ОК		Amanda Ntuli - 526239	M4
10007	А	From: [25A10 CRS1 (Local: +LV3; Connector: 25XP10_X3)] to: [25A11 CRS2 (Local: +LV3; Connector: 25XP11_X4)] NOTE: Cable is crossed TSX_M4_T01		ок		Amanda Ntuli - 526239	M4
10008	А	From: [25A10 CRS1 (Local: +LV3; Connector: 25XP10_X4)] to: [(Local: +END1; Connector: 90XP12.All)] NOTE: Cable is straight TSX_M4_T02		ок		Amanda Ntuli - 526239	М4



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10009	А	From: [25A14 TBR (Local: +LV3; Connector: 25XP14_ETH0)] to: [(Local: +END1; Connector: 90XR11.All)] NOTE: Cable is crossed TSX_M4_T03	ОК	Amanda Ntuli - 526239	M4
10010	А	From: [25A11 CRS2 (Local: +LV3; Connector: 25XP11_X3)] to: [Inter-car (Local: +END2; Connector: 90XP22.all)] NOTE: Cable is crossed TSX_M4_T04	ОК	Amanda Ntuli - 526239	M4
10011	А	From: [25A14 TBR (Local: +LV3; Connector: 25XP14_ETH1)] to: [Inter-car (Local: +END2; Connector: 90XP22.al)] NOTE: Cable is straight TSX_M4_T05	ОК	Amanda Ntuli - 526239	M4
10012	А	From: [(Local: +END1; Connector: 90XR12.Al)] to: [Inter-car (Local: +END2; Connector: 90XP21.al)] NOTE: Cable is straight TSX_M4_T06	ОК	Amanda Ntuli - 526239	M4
10013	А	From: [(Local: +END1; Connector: 90XR11.Al)] to: [Inter-car (Local: +END2; Connector: 90XP21.all)] NOTE: Cable is straight TSX_M4_T07	ОК	Amanda Ntuli - 526239	M4
10014	ı	Pacis cabling	ОК	Amanda Ntuli - 526239	M4
10015	А	From: [(Local: +END1; Connector: - 90XR11.Ell] to: [Inter-car (Local: +END2; Connector: -90XP21.ell)] NOTE: Cable is straight TSX_M4_P01	ОК	Amanda Ntuli - 526239	M4
10016	А	From: [54A10 SWITCH ETHERNET (CRS1) (Local: +LV6; Connector: 54XP10_X7)] to: [(Local: +END1; Connector: -90XR12.EII)] NOTE: Cable is crossed TSX_M4_P02	ок	Amanda Ntuli - 526239	M4
10017	А	From: [54A11 SWITCH ETHERNET (CRS2) (Local: +LV6; Connector: 54XP11_X8)] to: [(Local: +END2; Connector: -90XP22.ell)]	ок	Amanda Ntuli - 526239	M4



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		NOTE: Cable is straight TSX_M4_P03			
10018	Α	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_M4_P04	ОК	Amanda Ntuli - 526239	M4
10019	Α	All cables have been validated on M4	ок	Amanda Ntuli - 526239	M4
10020	R	Download all the results from Fluke and save them on PC with folder name "M4_TSxx"	ок	Ntobeko Ndlovu - 421595	M4
10021	R		ОК	Amanda Ntuli - 526239	M4



Section 4 - Config

4.3 Instructions list

4.3.1 CONFIG-Vehicle Configuration

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

N°	Туре	Instruction	File	Result status	Result value	Operator	Vehicle
10001	ı	Configuration Checks		ок		Mbavhalelo Funyufunyu - 484649	M4
10002	А	Check continuity on all pins of End 1 connector 90XP15 & 90XP14 to ground		OK		Mbavhalelo Funyufunyu - 484649	M4
10003	R	There is no continuity		ОК		Mbavhalelo Funyufunyu - 484649	M4
10004	А	Check continuity on all pins of End 2 connector 90XP15 & 90XP14 to ground		ОК		Mbavhalelo Funyufunyu - 484649	M4
10005	R	There is no continuity		ОК		Mbavhalelo Funyufunyu - 484649	M4
10006	I	Fire Detection_67		ОК		Mbavhalelo Funyufunyu - 484649	M4
10007	I	Smoke Detector Address Configuration		ОК		Mbavhalelo Funyufunyu - 484649	M4
10008	А	Remove and configure the Smoke Detector 67A2 (+PA1) according to the figure below	* = <u>1566</u> :	ОК		Mbavhalelo Funyufunyu - 484649	M4
10009	А	Reconnect Smoke Detector 67A2		ОК		Mbavhalelo Funyufunyu - 484649	M4
10010	А	Remove and configure the Smoke Detector 67A3 (+PA3) according to the figure below	1 25.	ОК		Mbavhalelo Funyufunyu - 484649	M4
10011	I	Line Heat Detection		ОК		Mbavhalelo Funyufunyu - 484649	M4
10012	R	Measure the resistance between point 1 and point 4 of the connector 67XP3_11 Result Min/Max: 550<= x<= 700 (Ohms)		ОК	632	Mbavhalelo Funyufunyu - 484649	M4
10013	А	Reconnect Smoke Detector 67A3		ОК		Mbavhalelo Funyufunyu - 484649	M4
10014	ı	OTDR LOOP		ОК		Mbavhalelo Funyufunyu - 484649	M4



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10015	ı	Check the continuity between the following points:	ок	Mbavhalelo Funyufunyu - 484649	M4
10016	А	From: [+IV1 (local: +END1 Connector - 90XR13.B (pin1))] to: [local: +END2 Connector -90XP23.b(pin1)]	ок	Mbavhalelo Funyufunyu - 484649	M4
10017	А	From: [-IV1 (local: +END1 Connector - 90XR13.B (pin2))] to: [local: +END2 Connector -90XP23.b (pin2)]	ок	Mbavhalelo Funyufunyu - 484649	M4



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Section 5 – Traction Motors

5.3 Instructions list

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5.3.1 011_TRM-Traction Motors

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

N°	Туре	Instruction	File	Result status	Result value	Operator	Vehicle
10001	I	Traction Motors (SPP = 11)		OK		Goitsemodimo Kgatitswe - 526511	M4
10002	I	Ensure all the CONNECTORS are fully ASSEMBLED before running a continuity test.		ОК		Goitsemodimo Kgatitswe - 526511	M4
10003	ı	The following test is used to confirm the wiring of the traction motors.	NŞÇK 💶 NŞÇK	ОК		Goitsemodimo Kgatitswe - 526511	M4
10004	ı	SAFETY NOTICE: It is important to ensure that there is no 400Vac power supply on the vehicle.		ОК		Goitsemodimo Kgatitswe - 526511	M4
10005	А	Switch OFF the 400Vac power supply at the source and disconnect the supply cables from the vehicle		ОК		Goitsemodimo Kgatitswe - 526511	M4
10006	R	There is no 400Vac available on the vehicle		ОК		Goitsemodimo Kgatitswe - 526511	M4
10007	ı	Bogie 1 (MB1)		OK		Goitsemodimo Kgatitswe - 526511	M4
10008	ı	Visual Inspection		OK		Goitsemodimo Kgatitswe - 526511	M4
10009	А	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		ок		Goitsemodimo Kgatitswe - 526511	M4
10010	ı	Motor 2		OK		Goitsemodimo Kgatitswe - 526511	M4
10011	R	[-11XR2 connector (local: UND - 11XP2_2.X1 pin 1)] connected to: [- 11XT2 motor terminals (U) -11M2].		ОК		Goitsemodimo Kgatitswe - 526511	M4
10012	А	Cable 11X2_2.X1 pin 1 is connected to 11XT2.		ОК		Goitsemodimo Kgatitswe - 526511	M4
10013	R	[-11XR2 connector (local: UND - 11XP2_2.X2 pin 1)] connected to: [-		OK		Goitsemodimo Kgatitswe - 526511	M4



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		11XT2 motor terminals (V) -11M2].			
10014	R	[-11XR2 connector (local: UND - 11XP2_2.X3 pin 1)] connected to: [- 11XT2 motor terminals (W) -11M2].	ОК	Goitsemodimo Kgatitswe - 526511	M4
10015	R	-11M2 Motor terminals PE connected to - 11GND2.	ок	Goitsemodimo Kgatitswe - 526511	M4
10016	I	Motor 1	ОК	Goitsemodimo Kgatitswe - 526511	M4
10017	R	[-11XR1 connector (local: UND - 11XP1_2.X1 pin 1)] connected to: [- 11XT1 motor terminals (U) -11M1].	ОК	Goitsemodimo Kgatitswe - 526511	M4
10018	R	[-11XR1 connector (local: UND - 11XP1_2.X2 pin 1)] connected to: [- 11XT1 motor terminals (V) -11M1].	ок	Goitsemodimo Kgatitswe - 526511	M4
10019	R	[-11XR1 connector (local: UND - 11XP1_2.X3 pin 1)] connected to: [- 11XT1 motor terminals (W) -11M1].	ОК	Goitsemodimo Kgatitswe - 526511	M4
10020	R	-11M1 Motor terminals PE connected to - 11GND.	ок	Goitsemodimo Kgatitswe - 526511	M4
10021	I	Bogie 2 (MB2)	ок	Goitsemodimo Kgatitswe - 526511	M4
10022	I	Visual Inspection	ок	Goitsemodimo Kgatitswe - 526511	M4
10023	А	For motor 3 and motor 4 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	ОК	Goitsemodimo Kgatitswe - 526511	M4
10024	I	Motor 3	ОК	Goitsemodimo Kgatitswe - 526511	M4
10025	R	[-11XR3 connector (local: UND - 11XP3_2.X1 pin 1)] connected to: [- 11XT3 motor terminals (U) -11M3].	ОК	Goitsemodimo Kgatitswe - 526511	M4
10026	R	[-11XR3 connector (local: UND - 11XP3_2.X2 pin 1)] connected to: [- 11XT3 motor terminals (V) -11M3].	ОК	Goitsemodimo Kgatitswe - 526511	M4
10027	R	[-11XR3 connector (local: UND - 11XP3_2.X3 pin 1)] connected to: [- 11XT3 motor terminals (W) -11M3].	ОК	Goitsemodimo Kgatitswe - 526511	M4



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10028	R	-11M3 Motor terminals PE connected to - 11GND3.	ок	Goitsemodimo Kgatitswe - 526511	M4
10029	I	Motor 4	ок	Goitsemodimo Kgatitswe - 526511	M4
10030	R	[-11XR4 connector (local: UND - 11XP4_2.X1 pin 1)] connected to: [- 11XT4 motor terminals (U) -11M4].	ОК	Goitsemodimo Kgatitswe - 526511	M4
10031	R	[-11XR4 connector (local: UND - 11XP4_2.X2 pin 1)] connected to: [- 11XT4 motor terminals (V) -11M4].	OK	Goitsemodimo Kgatitswe - 526511	M4
10032	R	[-11XR4 connector (local: UND - 11XP4_2.X3 pin 1)] connected to: [- 11XT4 motor terminals (W) -11M4].	ОК	Goitsemodimo Kgatitswe - 526511	M4
10033	R	-11M4 Motor terminals PE connected to - 11GND.	ОК	Goitsemodimo Kgatitswe - 526511	M4



Document Reference GIB0000006491 Version: A0



Document Reference GIB0000006491 Version: A0

Document Reference GIB0000006491 Version: A0 Emission date 23/05/2024

Section 6 – Report summaries

6.2 Results status

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

6.3 Tools used.

Function	Tool name	Tool number	Next Calibration date
012_PB	Megger	Megger	8/25/2025
025_NET_054_PIS	Cable Analyser DSX5000	Fluke machine_Ubunye	6/23/2024
CONFIG	Multi-meter	Multi-meter 3	8/23/2024

Vehicle	Equipment	Expected version	Version loaded
M4			