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PROJECT	CUSTOMER	VEHICLE
Xtrapolis-PRASA	PRASA	223 – TC2 – VPT

RTR Vehicle Pre-Testing TS223 TC2 Report GIB0000006493



	CREATED	VERIFIED	APPROVED	DISTRIBUTION
Name	Nhlakanipho MASONDO	Sifiso LUKHELE	Kgomotso NKOANA	Confidentiality Category **Restricted Project Normal**
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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 PAGE. Nhlakanipho MASONDO EPU Manager
Verifier	Sifiso LUKHELE	Serial Test Manager	23/05/2024	Sifise LUK IELE Serial Test Manager
Approver	Kgomotso NKOANA	Test Expert	23/05/2024	Kgomotso-NKOANA Test Expert

Execution Plan

Start Date	18/05/2024
End Date	18/05/2024



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Section 1 – Purpose / Objectives



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Section 2 - Protective Bonding

2.3 Instructions list

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2.3.1 012-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		Paseka Ditlhakanyane - 491468	TC2
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		Paseka Ditlhakanyane - 491468	TC2
10003	А	The Ohmmeter shall be off		ОК		Paseka Ditlhakanyane - 491468	TC2
10004	А	Use the Tool List to record the serial number of the Ohmmeter that will be used for this test		ок		Paseka Ditlhakanyane - 491468	TC2
10005	А	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		Paseka Ditlhakanyane - 491468	TC2
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.		ОК		Paseka Ditlhakanyane - 491468	TC2
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.		ОК		Paseka Ditlhakanyane - 491468	TC2
10008	А	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.	11 11 13 13 13 13 13	ОК		Paseka Ditlhakanyane - 491468	TC2
10009	А	Disconnect from the axle box the earthing cable of the 2nd axle of 2nd bogie frame		ОК		Paseka Ditlhakanyane - 491468	TC2
10010	R	Only the earthing cable of the 1st axle of the 1st bogie frame is connected		ОК		Paseka Ditlhakanyane - 491468	TC2
10011	А	Measure the car body to ground impedance		ОК		Paseka Ditlhakanyane - 491468	TC2



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10012	R	Impedance Result Max: x <= 0.05 (Ohm)	ОК	0.004	Paseka Ditlhakanyane - 491468	TC2
10013	А	Disconnect the earthing cable of 1st axle of 1st bogie frame	ОК		Paseka Ditlhakanyane - 491468	TC2
10014	А	Connect the earthing cable of the 2nd axle of 2nd bogie frame	ОК		Paseka Ditlhakanyane - 491468	TC2
10015	R	Only the earthing cable of the 2nd axle of the 2nd bogie frame of TC2 car is connected	ок		Paseka Ditlhakanyane - 491468	TC2
10016	А	Measure the car body to ground impedance	ОК		Paseka Ditlhakanyane - 491468	TC2
10017	R	Impedance Result Max: x <= 0.05 (Ohm)	ок	0.0039	Paseka Ditlhakanyane - 491468	TC2
10018	А	Connect the earthing cable of the 1st axle of 1st bogie frame	ок		Paseka Ditlhakanyane - 491468	TC2
10019	ı	Earthing of Equipment on the Underframe	ОК		Paseka Ditlhakanyane - 491468	TC2
10020	А	Visually inspect that the earthing cable connecting the Auxiliary Converter Case to TC2 car body is properly connected and related bolts are correctly torqued.	ОК		Paseka Ditlhakanyane - 491468	TC2
10021	R	Auxiliary Converter visually grounded and torque is correctly marked	ОК		Paseka Ditlhakanyane - 491468	TC2
10022	А	Measure the impedance between the Auxiliary Converter Case and the car body	ОК		Paseka Ditlhakanyane - 491468	TC2
10023	R	Impedance Result Max: x <= 0.05 (Ohm)	ОК	0.0041	Paseka Ditlhakanyane - 491468	TC2
10024	А	Visually inspect that the earthing cable connecting the Battery Box to the car body is properly connected and the related bolts are correctly torqued	ОК		Paseka Ditlhakanyane - 491468	TC2
10025	R	Battery Box visually grounded and torque is correctly marked	ОК		Paseka Ditlhakanyane - 491468	TC2
10026	А	Measure the impedance between the Battery Box Case and the car body	ОК		Paseka Ditlhakanyane - 491468	TC2
10027	R	Impedance Result Max: x <= 0.05 (Ohm)	ОК	0.00378	Paseka Ditlhakanyane - 491468	TC2
10028	А	Visually inspect that the earthing cable connecting the Eurobalise Antenna to the car body is properly connected and the	ОК		Paseka Ditlhakanyane - 491468	TC2



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		related bolts are correctly torqued				
10029	R	Eurobalise Antenna visually grounded and torque is correctly marked	ок		Paseka Ditlhakanyane - 491468	TC2
10030	А	Measure the impedance between the Eurobalise Antenna and the car body	ОК		Paseka Ditlhakanyane - 491468	TC2
10031	R	Impedance Result Max: x <= 0.05 (Ohm)	ок	0.00398	Paseka Ditlhakanyane - 491468	TC2
10032	А	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	ОК		Paseka Ditlhakanyane - 491468	TC2
10033	R	LVB/Brake Module visually grounded and torque is correctly marked	ОК		Paseka Ditlhakanyane - 491468	TC2
10034	А	Measure the impedance between the LVB/Brake and the car body	ОК		Paseka Ditlhakanyane - 491468	TC2
10035	R	Impedance Result Max: x <= 0.05 (Ohm)	ОК	0.0042	Paseka Ditlhakanyane - 491468	TC2
10036	I	Earthing of Equipment on the Exterior	ок		Paseka Ditlhakanyane - 491468	TC2
10037	I	Exterior Front	ок		Paseka Ditlhakanyane - 491468	TC2
10038	А	Visually inspect that the earthing cable connecting the Front Coupler to the car body is properly connected and the related bolts are correctly torqued	ОК		Paseka Ditlhakanyane - 491468	TC2
10039	R	Front Coupler visually grounded and torque is correctly marked	ОК		Paseka Ditlhakanyane - 491468	TC2
10040	А	Measure the impedance between the Front Coupler and the car body	ОК		Paseka Ditlhakanyane - 491468	TC2
10041	R	Impedance Result Max: x <= 0.05 (Ohm)	ОК	0.00389	Paseka Ditlhakanyane - 491468	TC2
10042	I	Earthing of Equipment on the Roof	ок		Paseka Ditlhakanyane - 491468	TC2
10043	А	Visually inspect that the earthing cable connecting the Saloon HVAC to the car body is properly connected and the related bolts are correctly torqued	ОК		Paseka Ditlhakanyane - 491468	TC2
10044	R	Saloon HVAC visually grounded and torque is correctly marked	ОК		Paseka Ditlhakanyane - 491468	TC2



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10045	Α	Measure the impedance between the Saloon HVAC and the car body	ОК		Paseka Ditlhakanyane - 491468	TC2
10046	R	Impedance Result Max: x <= 0.05 (Ohm)	ок	0.0042	Paseka Ditlhakanyane - 491468	TC2
10047	А	Visually inspect that the earthing cable connecting the Cab HVAC to the car body is properly connected and the related bolts are correctly torqued	ОК		Paseka Ditlhakanyane - 491468	TC2
10048	R	Cab HVAC visually grounded and torque is correctly marked	ОК		Paseka Ditlhakanyane - 491468	TC2
10049	А	Measure the impedance between the Cab HVAC and the car body	ОК		Paseka Ditlhakanyane - 491468	TC2
10050	R	Impedance Result Max: x <= 0.05 (Ohm)	ок	0.0041	Paseka Ditlhakanyane - 491468	TC2
10051	I	Earthing of interior equipment	ок		Paseka Ditlhakanyane - 491468	TC2
10052	I	Cabin	ок		Paseka Ditlhakanyane - 491468	TC2
10053	А	Visually inspect that the earthing cable connecting LV1 cubicle to the car body is properly connected and the related bolts are correctly torqued	ОК		Paseka Ditlhakanyane - 491468	TC2
10054	R	LV1 visually grounded and torque is correctly marked	ОК		Paseka Ditlhakanyane - 491468	TC2
10055	А	Measure the impedance between the LV1 cubicle and the car body	ОК		Paseka Ditlhakanyane - 491468	TC2
10056	R	Impedance Result Max: x <= 0.05 (Ohm)	ок	0.00398	Paseka Ditlhakanyane - 491468	TC2
10057	А	Visually inspect that the earthing cable connecting LV2 cubicle to the car body is properly connected and the related bolts are correctly torqued	ок		Paseka Ditlhakanyane - 491468	TC2
10058	R	LV2 visually grounded and torque is correctly marked	ОК		Paseka Ditlhakanyane - 491468	TC2
10059	А	Measure the impedance between the LV2 cubicle and the car body	ок		Paseka Ditlhakanyane - 491468	TC2
10060	R	Impedance Result Max: x <= 0.05 (Ohm)	ок	0.0041	Paseka Ditlhakanyane - 491468	TC2
10061	А	Visually inspect that the earthing cable connecting Under Desk Left cubicle to the car body is properly connected and the	ОК		Paseka Ditlhakanyane - 491468	TC2



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		related bolts are correctly torqued				
10062	R	Under Desk Left cabinet visually grounded and torque is correctly marked	ОК		Paseka Ditlhakanyane - 491468	TC2
10063	А	Measure the impedance between the Under Desk Left cabinet and the car body	ОК		Paseka Ditlhakanyane - 491468	TC2
10064	R	Impedance Result Max: x <= 0.05 (Ohm)	ок	0.0038	Paseka Ditlhakanyane - 491468	TC2
10065	А	Visually inspect that the earthing cable connecting Under Desk Middle cabinet to the car body is properly connected and the related bolts are correctly torqued	ОК		Paseka Ditlhakanyane - 491468	TC2
10066	R	Under Desk Middle cabinet visually grounded and torque is correctly marked	ОК		Paseka Ditlhakanyane - 491468	TC2
10067	А	Measure the impedance between the Under Desk Middle cabinet and the car body	ОК		Paseka Ditlhakanyane - 491468	TC2
10068	R	Impedance Result Max: x <= 0.05 (Ohm)	ок	0.0041	Paseka Ditlhakanyane - 491468	TC2
10069	Α	Measure the impedance between the Master Controller and the car body	ОК		Paseka Ditlhakanyane - 491468	TC2
10070	R	Impedance Result Max: x <= 0.05 (Ohm)	ок	0.0039	Paseka Ditlhakanyane - 491468	TC2
10071	Α	Measure the impedance between the Foot Heater and the car body	ОК		Paseka Ditlhakanyane - 491468	TC2
10072	R	Impedance Result Max: x <= 0.05 (Ohm)	ок	0.0039	Paseka Ditlhakanyane - 491468	TC2
10073	I	Saloon	ок		Paseka Ditlhakanyane - 491468	TC2
10074	А	Visually inspect that the earthing cable connecting LV7 cubicle to the car body is properly connected and the related bolts are correctly torqued	ок		Paseka Ditlhakanyane - 491468	TC2
10075	R	LV7 visually grounded and torque is correctly marked	ОК		Paseka Ditlhakanyane - 491468	TC2
10076	А	Measure the impedance between the LV7 cubicle and the car body	ОК		Paseka Ditlhakanyane - 491468	TC2
10077	R	Impedance Result Max: x <= 0.05 (0hm)	ок	0.0043	Paseka Ditlhakanyane - 491468	TC2



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Section 3 – Reflectometry

3.3 Instructions list



3.3.1 025_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		ОК		Paseka Ditlhakanyane - 491468	TC2
10002	ı	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		Paseka Ditlhakanyane - 491468	TC2
10003	I	The Cable Analyzer Module DSX-5000 will be used to validate cabling		ОК		Paseka Ditlhakanyane - 491468	TC2
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		Paseka Ditlhakanyane - 491468	TC2
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_TC2_P01 for PACIS and TSO21_TC2_T01 for TCMS.		ОК		Paseka Ditlhakanyane - 491468	TC2
10006	ı	Use the pictures below for coupler test.		ОК		Paseka Ditlhakanyane - 491468	TC2
10007	I	Front coupler	Secretarian Secre	ОК		Paseka Ditlhakanyane - 491468	TC2
10008	ı	DB9 connector	- (A)	ОК		Paseka Ditlhakanyane - 491468	TC2
10009	ı	TCMS cabling		ОК		Paseka Ditlhakanyane - 491468	TC2
10010	А	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_TC2_T01		ОК		Paseka Ditlhakanyane - 491468	TC2
10011	А	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_TC2_T02		ОК		Paseka Ditlhakanyane - 491468	TC2
10012	А	From: [25A11 Ethernet Switch (Local: +LV1; Connector: 25XP11_X3)] to:		ок		Paseka Ditlhakanyane - 491468	TC2



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	[25A12 Switch Ethernet (CRS3) (Local: +LV1; Connector: 25XP12_X4)]				
	TSX_TC2_T03				
А	From: [25A12 Ethernet Switch (CRS2) (Local: +LV1; Connector: 25XP12_X8)] to: [25A18 MAINTENANCE INTERFACE (Local: +LV1; Connector: 25XR18_ETH)] NOTE: Cable is crossed TSX_TC2_T04	C	ок	Paseka Ditlhakanyane - 491468	TC2
А	From: [25A15 Train Router Switch (Local: +LV1; Connector: 25XP15_ETH3)] to: [25A14 Ethernet Repeater (TBR) (Local: +LV7; Connector: 25XP14_ETH0)] NOTE: Cable is crossed TSX_TC2_T05	C	ОК	Paseka Ditlhakanyane - 491468	TC2
А	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_TC2_T06	C	DK	Paseka Ditlhakanyane - 491468	TC2
А	From: [25A12 Switch Ethernet (CRS3) (Local: +LV1; Connector: 25XP12_X3)] to: [(Local: END2; Connector: 90XP12.all)] NOTE: Cable is crossed TSX_TC2_T07	C	ОК	Paseka Ditlhakanyane - 491468	TC2
А	From: [25A14 TBR (Local: +LV7; Connector: 25XP14_ETH1)] to: [Inter-car (Local: +END2; -90XP12.al)] NOTE: Cable is straight TSX_TC2_T08	C	ЭК	Paseka Ditlhakanyane - 491468	TC2
А	From: [25A15 Train Router Switch (Local: +LV1; Connector: 25XP15_ETH1)] to: [Inter-car (Local: +END2; -90XP11.all)] NOTE: Cable is straight TSX_TC2_T09	C	ок	Paseka Ditlhakanyane - 491468	TC2
А	From: [25A10 Ethernet Switch (CRS1) (Local: +LV7; Connector: 25XP10_X4)] to: [Inter-car (Local: +END2; -90XP11.al)] NOTE: Cable is straight	C	ОК	Paseka Ditlhakanyane - 491468	TC2
	A A A	+LV1; Connector: 25XP12_X4)] NOTE: Cable is crossed TSX_TC2_T03 From: [25A12 Ethernet Switch (CRS2) (Local: +LV1; Connector: 25XP12_X8)] to: [25A18 MAINTENANCE INTERFACE (Local: +LV1; Connector: 25XR18_ETH)] NOTE: Cable is crossed TSX_TC2_T04 From: [25A15 Train Router Switch (Local: +LV1; Connector: 25XP15_ETH3)] to: [25A14 Ethernet Repeater (TBR) (Local: +LV7; Connector: 25XP14_ETH0)] NOTE: Cable is crossed TSX_TC2_T05 From: [25A15 Train Router Switch (Local: +LV7; Connector: 25XP15_ETH5)] to: [25A10 Ethernet Switch (CRS1) (Local: +LV7; Connector: 25XP10_X3)] NOTE: Cable is crossed TSX_TC2_T06 From: [25A12 Switch Ethernet (CRS3) (Local: +LV1; Connector: 25XP12_X3)] to: [(Local: +LV1; Connector: 25XP12_X3)] to: [(Local: END2; Connector: 90XP12.all)] NOTE: Cable is crossed TSX_TC2_T07 From: [25A14 TBR (Local: +LV7; Connector: 25XP14_ETH1)] to: [Inter-car (Local: +END2; -90XP12.all)] A NOTE: Cable is straight TSX_TC2_T08 From: [25A15 Train Router Switch (Local: +LV1; Connector: 25XP15_ETH1)] to: [Inter-car (Local: +END2; -90XP11.all)] NOTE: Cable is straight TSX_TC2_T08 From: [25A10 Ethernet Switch (CRS1) (Local: +LV7; Connector: 25XP10_X4)]	H-IV1; Connector: 25XP12_X4) NOTE: Cable is crossed TSX_TC2_T03	+LV3; Connector: 25KP12_X4)] NOTE: Cable is crossed TSX_TC2_T03 From: [25A12 Ethernet Switch (CR52) (Local: +LV1; Connector: 25KP12_X8)] to: [25A18 MAINTENANCE INTERFACE (Local: +LV1; Connector: 25KP18_ETH)] NOTE: Cable is crossed TSX_TC2_T04 From: [25A15 Train Router Switch (Local: +LV3; Connector: 25KP15_ETH3)] to: [25A16 Ethernet Repeater (TBR) (Local: +LV3; Connector: 25KP14_ETH0)] NOTE: Cable is crossed TSX_TC2_T06 From: [25A15 Train Router Switch (Local: +LV1; Connector: 25KP15_ETH5)] to: [25A10 Ethernet Switch (CR51) (Local: +LV7; Connector: 25KP15_ETH5)] to: [25A10 Ethernet Switch (CR51) (Local: +LV7; Connector: 25KP10_X3)] NOTE: Cable is crossed TSX_TC2_T06 From: [25A12 Switch Ethernet (CR53) (Local: +LV1; Connector: 25KP10_X3)] to: [(Local: END2; Connector: 90KP12_all)] NOTE: Cable is crossed TSX_TC2_T07 From: [25A14 TBR (Local: +LV7; Connector: 25KP14_ETH3)] to: [Inter-car (Local: +END2; -90XP12_al)] A NOTE: Cable is straight TSX_TC2_T09 From: [25A15 Train Router Switch (Local: +LV1; Connector: 25KP15_ETH1)] to: [Inter-car (Local: +END2; -90XP11_al)] NOTE: Cable is straight TSX_TC2_T09 From: [25A10 Ethernet Switch (CR51) (Local: +LV7; Connector: 25KP10_X4)] NOTE: Cable is straight TSX_TC2_T09 From: [25A10 Ethernet Switch (CR51) (Local: +LV7; Connector: 25KP10_X4)] NOTE: Cable is straight TSX_TC2_T09 From: [25A10 Ethernet Switch (CR51) (Local: +LV7; Connector: 25KP10_X4)] NOTE: Cable is straight TSX_TC2_T09	1.1/1; Connector: 25XP12_Xa)



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		TSX_TC2_T10			
10020	Α	From: [25A15 Train Router Switch (Local: +LV1; Connector: 25XP15_ETH0)] to: [Coupler 041 (Local: CLP; Connector: 90XR120_LC14)] TSX_TC1_T11 NOTE: Cable is crossed NOTE: For this test, use the male coupler connector provided. Please refer to the picture for the correct location of connector.	ОК	Paseka Ditlhakanyane - 491468	TC2
10021	А	From: [25A15 Train Router Switch (Local: +LV1; Connector: 25XP15_ETH2)] to: [Coupler 141 (Local: +CLP; Connector: 90XR120_RC14)] TSX_TC1_T12 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.	ОК	Paseka Ditlhakanyane - 491468	TC2
10022	I	Pacis cabling	ОК	Paseka Ditlhakanyane - 491468	TC2
10023	Α	From: [TRS 54A13 (Local: +LV1; Connector: 54XP13_ETH7)] to: [Inter-car (Local: +END2; -90XP12.ell)] NOTE: Cable is straight TSX_TC2_P01	ок	Paseka Ditlhakanyane - 491468	TC2
10024	А	From: [54A10 CRS1 (Local: +LV7; Connector: 54XP10_X7)] to: [Inter-car (Local: +END2; -90XP11.ell)] NOTE: Cable is crossed TSX_TC2_P02	ок	Paseka Ditlhakanyane - 491468	TC2
10025	Α	From: [54A13 TRS (Local: +LV1; Connector: 54XP13_ETH6)] to: [54A10 CRS1 (Local: +LV7; Connector: 54XP10_X8)] NOTE: Cable is crossed TSX_TC2_P03	ОК	Paseka Ditlhakanyane - 491468	TC2
10026	А	From: [54A42 RACK UMC (EBM) (Local: +LV1; Connector: 54XP42_X2) to: [Coupler 042 (Local: +CLP; Connector: 90XR120_LE12)] TSX_TC1_P04	ОК	Paseka Ditlhakanyane - 491468	TC2



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10027	А	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.	ОК	Paseka Ditlhakanyane - 491468	TC2
10028	А	All cables have been validated on TC2	ОК	Paseka Ditlhakanyane - 491468	TC2
10029	R	Download all the results from Fluke and save them on PC with folder name "TC2_TSxx"	ОК	Ntobeko Ndlovu - 421595	TC2



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Section 4 - Config

4.3 Instructions list

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4.3.1 CONF-Car Configuration

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

N°	Туре	Instruction	File	Result status	Result value	Operator	Vehicle
10001	I	Configuration Checks		ок		Sqiniseko Xulu - 493646	TC2
10002	А	Check continuity between 93XT104_1 pin 50 and Ground point		ок		Sqiniseko Xulu - 493646	TC2
10003	R	There is no continuity		OK		Sqiniseko Xulu - 493646	TC2
10004	ı	If there is continuity above, the wire 19203LE is pinched on the compressor isolation cock.		ок		Sqiniseko Xulu - 493646	TC2
10005	А	Check continuity on all pins of connector 90XP15 & 90XP14 to ground		OK		Sqiniseko Xulu - 493646	TC2
10006	R	There is no continuity except pin 62 of connector 90XP15		ОК		Sqiniseko Xulu - 493646	TC2
10007	А	Check continuity on all pins of the coupler to ground.		ОК		Sqiniseko Xulu - 493646	TC2
10008	R	There is no continuity		OK		Sqiniseko Xulu - 493646	TC2
10009	ı	Smoke Detector Address Configuration		OK		Sqiniseko Xulu - 493646	TC2
10010	А	Remove and configure the Smoke Detector 67A4 in the cabin, according to the figure attached.	- <u>- 1</u>	ОК		Sqiniseko Xulu - 493646	TC2
10011	А	Reconnect Smoke Detector 67A4		ОК		Sqiniseko Xulu - 493646	TC2
10012	А	Remove and configure the Smoke Detector 67A2 (+PA1) according to the figure attached.	A Part 2	ОК		Sqiniseko Xulu - 493646	TC2
10013	А	Reconnect Smoke Detector 67A2		ОК		Sqiniseko Xulu - 493646	TC2
10014	А	Remove and configure the Smoke Detector 67A3 (+PA3) according to the figure attached.	######################################	ОК		Sqiniseko Xulu - 493646	TC2
10015	R	Measure the resistance (LHD- Line Heat Detection from Static Converter Box) between point 1 and point 4 of the		OK	608.6	Sqiniseko Xulu - 493646	TC2



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		connector 67XP3_11. Result Min/Max: 550<= x<= 700 (Ohms)			
10016	R	About 600 Ohms measured	ОК	Sqiniseko Xulu - 493646	TC2
10017	А	Reconnect Smoke Detector 67A3	ОК	Sqiniseko Xulu - 493646	TC2
10018	I	Speed Sensor Continuity	ОК	Sqiniseko Xulu - 493646	TC2
10019	А	Check continuity between Speed Sensor 1 (connector -41XP5) and MCE (connector -40XP1_X314):	ОК	Sqiniseko Xulu - 493646	TC2
10020	R	There is continuity between (Pin A and Pin z4), (Pin B and b4), (Pin D and Pin d4)	ОК	Sqiniseko Xulu - 493646	TC2
10021	А	Check continuity between Speed Sensor 2 (connector -41XP2_D2) and MCE (connector - 40XP1_X314):	ОК	Sqiniseko Xulu - 493646	TC2
10022	R	There is continuity between (Pin A and Pin z8), (Pin B and b8), (Pin D and Pin d8)	ОК	Sqiniseko Xulu - 493646	TC2
10023	А	Check continuity between Speed Sensor 2 (connector -41XP2_D2) and OTDR (connector -61XP1_D2_TAC):	ОК	Sqiniseko Xulu - 493646	TC2
10024	R	There is continuity between (Pin F and Pin a14), (Pin G and a12), (Pin H and Pin a10)	ОК	Sqiniseko Xulu - 493646	TC2
10025	А	Check continuity between Speed Sensor 3 (connector -41XP3_D2) and MCE (connector - 40XP1_X314):	ОК	Sqiniseko Xulu - 493646	TC2
10026	R	There is continuity between (Pin A and Pin z6), (Pin B and b6), (Pin D and Pin d6)	ОК	Sqiniseko Xulu - 493646	TC2
10027	А	Check continuity between Speed Sensor 3 (connector -41XP3_D2) and OTDR (connector - 61XP1_D2_TAC):	ОК	Sqiniseko Xulu - 493646	TC2
10028	R	There is continuity between (Pin F and Pin c2), (Pin G and a8), (Pin H and Pin e2)	ОК	Sqiniseko Xulu - 493646	TC2
10029	А	Check continuity between Speed Sensor 4 (connector -41XP4_D2) and MCE (connector - 40XP1_X314):	ОК	Sqiniseko Xulu - 493646	TC2
10030	R	There is continuity between (Pin A and Pin z10), (Pin B and b10), (Pin D and Pin d10)	OK	Sqiniseko Xulu - 493646	TC2



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10031	1	OTDR LOOP	ОК	Sqiniseko Xulu - 493646	TC2
10032	ı	Check continuity between the following points:	ок	Sqiniseko Xulu - 493646	TC2
10033	А	From: [61A1 Tach Board (local: +LV2 connector -61XP1_D2_TAC (pin c26))] to: [61A2 speed indicator IN+(local: DD4)].	OK	Sqiniseko Xulu - 493646	TC2
10034	А	From: [61A1 Tach Board (local: +LV2 connector -61XP1_D2_TAC (pin e26))] to: [61A2 speed indicator OUT- (local: DD4)]	ОК	Sqiniseko Xulu - 493646	TC2
10035	А	From: [61A1 Tach Board (local: +LV2 connector -61XP1_D2_TAC (pin a26))] to: [Local(+END2) Connector: -90XP13.b pin2]	OK	Sqiniseko Xulu - 493646	TC2
10036	А	From: [61A1 Tach Board (local: +LV2 connector -61XP1_D2_TAC (pin e28))] to: [Local(+END2) Connector: -90XP13.b pin1]	ОК	Sqiniseko Xulu - 493646	TC2



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Section 5 – Report summaries

5.2 Results status

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

5.3 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_Ubunye	6/23/2024
CONF	Multi-meter	Meter 1	8/25/2024

Vehicle	Equipment	Expected version	Version loaded
TC2			