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PROJECT	CUSTOMER	VEHICLE
Xtrapolis-PRASA	PRASA	211 – TC1 – VPT

## RTR Vehicle Pre-Testing TS211 TC1 Report GIB0000006241



	CREATED	VERIFIED	APPROVED	DISTRIBUTION
Name	Kealeboga MOCWAGOLE	Nkululeko NDOVELA	Kgomotso NKOANA	Confidentiality Category  **Restricted Project Normal**
Date	11/03/2024	11/03/2024	11/03/2024	Control Category  Controlled Not Controlled
Signature				Language <b>EN</b>

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#### **Table of modifications**

Rev	Date	Modifications Content	Writer
Ao	11/03/2024	Creation	Kealeboga MOCWAGOLE

#### **Internal validations**

	Name	Function	Date	Signature
Creator	Kealeboga MOCWAGOLE	EPU Manager	11/03/2024	Kealeboga MOCWAGOLE EPU Manager
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Approver	Kgomotso NKOANA	Test Expert	11/03/2024	Kgomotso-NKOANA Test Expert

#### **Execution Plan**

Start Date	04/03/2024
End Date	04/03/2024



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Section 1 – Purpose / Objectives



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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°	Туре	Instruction	File	Result status	Result value	Operator	Vehicle
10001	I	Network Cabling Integrity Test		ок		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.		ок		Celiwe Sokhela - 491462	TC1
10003	I	The Cable Analyzer Module DSX-5000 will be used to validate cabling		ОК		Celiwe Sokhela - 491462	TC1
10004	1	Register as a new Operator on the DSX-5000. Check on the manual below on how to register as a new Operator.	×	ОК		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. TSO21_TC1_P01 for PACIS and TSO21_TC1_T01 for TCMS.		ОК		Celiwe Sokhela - 491462	TC1
10006	ı	Use the pictures below for coupler test		ок		Celiwe Sokhela - 491462	TC1
10007	ı	Front Coupler		ОК		Celiwe Sokhela - 491462	TC1
10008	ı	DB9 pin out		ОК		Celiwe Sokhela - 491462	TC1
10009	ı	TCMS cabling		ОК		Celiwe Sokhela - 491462	TC1
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_TC1_T01		ок		Celiwe Sokhela - 491462	TC1
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_TC1_T02		ок		Celiwe Sokhela - 491462	TC1
10012	А	From: [25A11 Ethernet Switch (CRS2) (Local: +LV1; Connector: 25XP11_X3)]		OK		Celiwe Sokhela - 491462	TC1



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	to: [25A12 Switch Ethernet (CRS3) (Local: +LV1; Connector: 25XP12_X4)]				
	NOTE: Cable is crossed TSX_TC1_T03				
А	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	0	К	Celiwe Sokhela - 491462	TC1
А	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	0	к	Celiwe Sokhela - 491462	TC1
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_TC1_T06	0	к	Celiwe Sokhela - 491462	TC1
А	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	0	к	Celiwe Sokhela - 491462	TC1
А	From: [25A15 Train Router Switch (Local: +LV1; Connector: 25XP15_ETH3)] to: [Inter-car (Local: +END2; 90XP11.all)]  NOTE: Cable is Straight TSX_TC1_T08	0	к	Celiwe Sokhela - 491462	TC1
А	From: [25A10 Ethernet Switch (CRS1) (Local: +LV7; Connector: 25XP10_X4)] to: [Inter-car (Local: +END2; 90XP11.al)]  NOTE: Cable is Straight TSX_TC1_T09	0	к	Celiwe Sokhela - 491462	TC1
А	From: [25A13 Ethernet Switch (Local: +LV7; Connector: 25XP13_X3)] to: [Intercar (Local: +END2; 90XP12.all)]  NOTE: Cable is crossed	0	К	Celiwe Sokhela - 491462	TC1
	A A	(Local: +LV1; Connector: 25XP12_X4)]  NOTE: Cable is crossed TSX_TC1_T03  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  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  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  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  From: [25A15 Train Router Switch (Local: +LV1; Connector: 25XP15_ETH3)] to: [Inter-car (Local: +END2; 90XP11.all)]  A  NOTE: Cable is Straight TSX_TC1_T08  From: [25A10 Ethernet Switch (CRS1) (Local: +LV7; Connector: 25XP10_X4)] to: [Inter-car (Local: +END2; 90XP11.all)]  NOTE: Cable is Straight TSX_TC1_T09  From: [25A13 Ethernet Switch (Local: +LV7; Connector: 25XP13_X3)] to: [Inter-car (Local: +END2; 90XP11.all)]	(Local: +LV1; Connector: 25XP12_X4)]  NOTE: Cable is crossed TSX_TC1_T03  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  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  From: [25A15 Train Router Switch (Local: +LV7; Connector: 25XP15_ETH5)] to: [25A10 Ethernet Switch (CR51) (Local: +LV7; Connector: 25XP10_X3)]  NOTE: Cable is crossed TSX_TC1_T06  From: [25A12 Switch Ethernet (CRS3) (Local: +LV1; Connector: 25XP12_X9)] to: [25A13 Switch Ethernet (CRS4) (Local: +LV7; Connector: 25XP13_X4)]  NOTE: Cable is crossed TSX_TC1_T07  From: [25A15 Train Router Switch (Local: +LV1; Connector: 25XP15_ETH3)] to: [Inter-car (Local: +END2; 90XP11.all)]  NOTE: Cable is Straight TSX_TC1_T08  From: [25A10 Ethernet Switch (CRS1) (Local: +LV7; Connector: 25XP10_X4)] to: [Inter-car (Local: +END2; 90XP11.all)]  NOTE: Cable is Straight TSX_TC1_T09  From: [25A13 Ethernet Switch (Local: +LV7; Connector: 25XP13_X3)] to: [Inter-car (Local: +END2; 90XP11.all)]  NOTE: Cable is Straight TSX_TC1_T09  From: [25A13 Ethernet Switch (Local: +LV7; Connector: 25XP13_X3)] to: [Inter-car (Local: +END2; 90XP12.all)]	(Local: +LV1; Connector: 25XP12_X4)	(Local: +LV1; Connector: 25KP12_X4)

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		TSX_TC1_T10			
10020	A	From: [25A14 TBR (Local: +LV7; Connector: 25XP14_ETH1)] to: [Inter-car (Local: +END2; 90XP12.al)] NOTE: Cable is Straight TSX_TC1_T11	ОК	Celiwe Sokhela - 491462	TC1
10021	А	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	А	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	ОК	Celiwe Sokhela - 491462	TC1
10024	А	From: [TRS 54A13 (Local: +LV1; Connector: 54XP13_ETH7)] to: [Inter-car (Local: +END2; 90XP12.ell)]  NOTE: Cable is straight TSX_TC1_P01	ОК	Celiwe Sokhela - 491462	TC1
10025	А	From: [CRS1 54A10 (Local: +LV7; Connector: 54XP10_X7)] to: [Inter-car (Local: +END2; 90XP11.ell)] NOTE: Cable is crossed TSX_TC1_P02	ОК	Celiwe Sokhela - 491462	TC1
10026	А	From: [54A13 TRS (Local: +LV1; Connector: 54XP13_ETH6)] to: [54A10 CRS1 (Local: +LV7; Connector: 54XP10_X8)] NOTE: Cable is crossed TSX_TC1_P03	ОК	Celiwe Sokhela - 491462	TC1

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10027	А	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.	ОК	Celiwe Sokhela - 491462	TC1
10028	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	Celiwe Sokhela - 491462	TC1
10029	А	All cables have been validated on TC1	ок	Celiwe Sokhela - 491462	TC1
10030	R	Download all the results from Fluke and save them on PC with folder name "TC1_TSxx"	ОК	Ntobeko Ndlovu - 421595	TC1



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## Section 4 - Protective Bonding

4.3 Instructions list



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#### 4.3.1 012-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		Walter Sigudla - 486333	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		ок		Walter Sigudla - 486333	TC1
10003	А	The Ohmmeter shall be off		ОК		Walter Sigudla - 486333	TC1
10004	А	Use the Tool List to record the serial number of the Ohmmeter that will be used for this test		ОК		Walter Sigudla - 486333	TC1
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		Walter Sigudla - 486333	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		ОК		Walter Sigudla - 486333	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.		ОК		Walter Sigudla - 486333	TC1
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 12 11	ОК		Walter Sigudla - 486333	TC1
10009	A	Disconnect from the axle box the earthing cable of the 2nd axle of 2nd bogie frame		OK		Walter Sigudla - 486333	TC1
10010	R	Only the earthing cable of the 1st axle of the 1st bogie frame is connected		ОК		Walter Sigudla - 486333	TC1
10011	А	Measure the car body to ground impedance		ОК		Walter Sigudla - 486333	TC1



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10012	R	Impedance Result Max : x <= 0.05 (0hm)	ОК	0.00564	Walter Sigudla - 486333	TC1
10013	А	Disconnect the earthing cable of 1st axle of 1st bogie frame	ОК		Walter Sigudla - 486333	TC1
10014	А	Connect the earthing cable of the 2nd axle of 2nd bogie frame	ОК		Walter Sigudla - 486333	TC1
10015	R	Only the earthing cable of the 2nd axle of the 2nd bogie frame of TC1 car is connected	ОК		Walter Sigudla - 486333	TC1
10016	А	Measure the car body to ground impedance	ОК		Walter Sigudla - 486333	TC1
10017	R	Impedance Result Max : x <= 0.05 (Ohm)	ОК	0.00655	Walter Sigudla - 486333	TC1
10018	А	Connect the earthing cable of the 1st axle of 1st bogie frame	ОК		Walter Sigudla - 486333	TC1
10019	ı	Earthing of Equipment on the Underframe	ок		Walter Sigudla - 486333	TC1
10020	А	Visually inspect that the earthing cable connecting the Auxiliary Converter Case to TC1 car body is properly connected and related bolts are correctly torqued	ОК		Walter Sigudla - 486333	TC1
10021	R	Auxiliary Converter visually grounded and torque is correctly marked	ОК		Walter Sigudla - 486333	TC1
10022	А	Measure the impedance between the Auxiliary Converter Case and the car body	ОК		Walter Sigudla - 486333	TC1
10023	R	Impedance Result Max : x <= 0.05 (Ohm)	ОК	0.00471	Walter Sigudla - 486333	TC1
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		Walter Sigudla - 486333	TC1
10025	R	Battery Box visually grounded and torque is correctly marked	ОК		Walter Sigudla - 486333	TC1
10026	А	Measure the impedance between the Battery Box Case and the car body	ОК		Walter Sigudla - 486333	TC1
10027	R	Impedance Result Max : x <= 0.05 (Ohm)	ОК	0.00487	Walter Sigudla - 486333	TC1
10028	А	Visually inspect that the earthing cable connecting the Eurobalise Antenna to the car body is properly connected and the	ОК		Walter Sigudla - 486333	TC1

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		related bolts are correctly torqued				
10029	R	Eurobalise Antenna visually grounded and torque is correctly marked	ОК		Walter Sigudla - 486333	TC1
10030	А	Measure the impedance between the Eurobalise Antenna and the car body	ОК		Walter Sigudla - 486333	TC1
10031	R	Impedance Result Max : x <= 0.05 (Ohm)	ОК	0.0058	Walter Sigudla - 486333	TC1
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		Walter Sigudla - 486333	TC1
10033	R	LVB/Brake Module visually grounded and torque is correctly marked	ОК		Walter Sigudla - 486333	TC1
10034	А	Measure the impedance between the LVB/Brake and the car body	ОК		Walter Sigudla - 486333	TC1
10035	R	Impedance Result Max : x <= 0.05 (Ohm)	ок	0.0052	Walter Sigudla - 486333	TC1
10036	I	Earthing of Equipment on the Exterior	ОК		Walter Sigudla - 486333	TC1
10037	I	Exterior Front	ОК		Walter Sigudla - 486333	TC1
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		Walter Sigudla - 486333	TC1
10039	R	Front Coupler visually grounded and torque is correctly marked	ОК		Walter Sigudla - 486333	TC1
10040	А	Measure the impedance between the Front Coupler and the car body	ОК		Walter Sigudla - 486333	TC1
10041	R	Impedance Result Max : x <= 0.05 (Ohm)	ок	0.00602	Walter Sigudla - 486333	TC1
10042	I	Earthing of Equipment on the Roof	ОК		Walter Sigudla - 486333	TC1
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		Walter Sigudla - 486333	TC1
10044	R	Saloon HVAC visually grounded and torque is correctly marked	ок		Walter Sigudla - 486333	TC1



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10045	Α	Measure the impedance between the Saloon HVAC and the car body	ОК		Walter Sigudla - 486333	TC1
10046	R	Impedance Result Max : x <= 0.05 (0hm)	ОК	0.00529	Walter Sigudla - 486333	TC1
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		Walter Sigudla - 486333	TC1
10048	R	Cab HVAC visually grounded and torque is correctly marked	ОК		Walter Sigudla - 486333	TC1
10049	А	Measure the impedance between the Cab HVAC and the car body	ОК		Walter Sigudla - 486333	TC1
10050	R	Impedance Result Max : x <= 0.05 (0hm)	ОК	0.00487	Walter Sigudla - 486333	TC1
10051	I	Earthing of interior equipment	ок		Walter Sigudla - 486333	TC1
10052	I	Cabin	ОК		Walter Sigudla - 486333	TC1
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		Walter Sigudla - 486333	TC1
10054	R	LV1 visually grounded and torque is correctly marked	ОК		Walter Sigudla - 486333	TC1
10055	А	Measure the impedance between the LV1 cubicle and the car body	ОК		Walter Sigudla - 486333	TC1
10056	R	Impedance Result Max : x <= 0.05 (0hm)	ОК	0.00471	Walter Sigudla - 486333	TC1
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		Walter Sigudla - 486333	TC1
10058	R	LV2 visually grounded and torque is correctly marked	ОК		Walter Sigudla - 486333	TC1
10059	Α	Measure the impedance between the LV2 cubicle and the car body	ОК		Walter Sigudla - 486333	TC1
10060	R	Impedance Result Max : x <= 0.05 (Ohm)	ОК	0.00483	Walter Sigudla - 486333	TC1
10061	А	Visually inspect that the earthing cable connecting Under Desk Left cubicle to the car body is properly connected and the	ОК		Walter Sigudla - 486333	TC1

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		related bolts are correctly torqued				
10062	R	Under Desk Left cabinet visually grounded and torque is correctly marked	ОК		Walter Sigudla - 486333	TC1
10063	А	Measure the impedance between the Under Desk Left cabinet and the car body	ОК		Walter Sigudla - 486333	TC1
10064	R	Impedance Result Max : x <= 0.05 (Ohm)	ок	0.0048	Walter Sigudla - 486333	TC1
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		Walter Sigudla - 486333	TC1
10066	R	Under Desk Middle cabinet visually grounded and torque is correctly marked	ОК		Walter Sigudla - 486333	TC1
10067	А	Measure the impedance between the Under Desk Middle cabinet and the car body	ОК		Walter Sigudla - 486333	TC1
10068	R	Impedance Result Max : x <= 0.05 (Ohm)	ок	0.00472	Walter Sigudla - 486333	TC1
10069	А	Measure the impedance between the Master Controller and the car body	ОК		Walter Sigudla - 486333	TC1
10070	R	Impedance Result Max : x <= 0.05 (Ohm)	ок	0.00491	Walter Sigudla - 486333	TC1
10071	А	Measure the impedance between the Foot Heater and the car body	ОК		Walter Sigudla - 486333	TC1
10072	R	Impedance Result Max : x <= 0.05 (Ohm)	ок	0.00398	Walter Sigudla - 486333	TC1
10073	I	Saloon	ок		Walter Sigudla - 486333	TC1
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		Walter Sigudla - 486333	TC1
10075	R	LV7 visually grounded and torque is correctly marked	ОК		Walter Sigudla - 486333	TC1
10076	А	Measure the impedance between the LV7 cubicle and the car body	ОК		Walter Sigudla - 486333	TC1
10077	R	Impedance Result Max : x <= 0.05 (Ohm)	ок	0.0065	Walter Sigudla - 486333	TC1



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Section 5 - Config

**5.3 Instructions list** 



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### 5.3.1 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		Celiwe Sokhela - 491462	TC1
10002	А	Check continuity between 93XT104_1 pin 50 and Ground point		ок		Celiwe Sokhela - 491462	TC1
10003	R	There is no continuity		ОК		Celiwe Sokhela - 491462	TC1
10004	ı	If there is continuity above, the wire 19203LE is pinched on the compressor isolation cock.		ОК		Celiwe Sokhela - 491462	TC1
10005	А	Check continuity on all pins of connector 90XP15 & 90XP14 to ground		ОК		Celiwe Sokhela - 491462	TC1
10006	R	There is no continuity except pin 62 of connector 90XP15		ОК		Celiwe Sokhela - 491462	TC1
10007	A	Check continuity on all pins of the coupler to ground.		ОК		Celiwe Sokhela - 491462	TC1
10008	R	There is no continuity		ОК		Celiwe Sokhela - 491462	TC1
10009	ı	Smoke Detector Address Configuration		OK		Celiwe Sokhela - 491462	TC1
10010	А	Remove and configure the Smoke Detector 67A4 in the cabin, according to the figure attached.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ОК		Celiwe Sokhela - 491462	TC1
10011	А	Reconnect Smoke Detector 67A4		ОК		Celiwe Sokhela - 491462	TC1
10012	А	Remove and configure the Smoke Detector 67A2 (+PA1) according to the figure attached.	E F 11111	ОК		Celiwe Sokhela - 491462	TC1
10013	А	Reconnect Smoke Detector 67A2		ОК		Celiwe Sokhela - 491462	TC1
10014	А	Remove and configure the Smoke Detector 67A3 (+PA3) according to the figure attached.		ок		Celiwe Sokhela - 491462	TC1
10015	R	Measure the resistance (LHD- Line Heat Detection from Static Converter Box) between point 1 and point 4 of the		ОК	599	Celiwe Sokhela - 491462	TC1



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		connector 67XP3_11. Result Min/Max : 550<= x<= 700 (Ohms)			
10016	Α	Reconnect Smoke Detector 67A3	ОК	Celiwe Sokhela - 491462	TC1
10017	I	Speed Sensor Continuity	ОК	Celiwe Sokhela - 491462	TC1
10018	А	Check continuity between Speed Sensor 1 (connector -41XP5) and MCE (connector -40XP1_X314):	ОК	Celiwe Sokhela - 491462	TC1
10019	R	There is continuity between (Pin A and Pin z4), (Pin B and b4), (Pin D and Pin d4)	ОК	Celiwe Sokhela - 491462	TC1
10020	А	Check continuity between Speed Sensor 2 (connector -41XP2_D2) and MCE (connector - 40XP1_X314):	ОК	Celiwe Sokhela - 491462	TC1
10021	R	There is continuity between (Pin A and Pin z8), (Pin B and b8), (Pin D and Pin d8)	ОК	Celiwe Sokhela - 491462	TC1
10022	А	Check continuity between Speed Sensor 3 (connector -41XP3_D2) and MCE (connector - 40XP1_X314):	ОК	Celiwe Sokhela - 491462	TC1
10023	R	There is continuity between (Pin A and Pin z6), (Pin B and b6), (Pin D and Pin d6)	ОК	Celiwe Sokhela - 491462	TC1
10024	А	Check continuity between Speed Sensor 4 (connector -41XP4_D2) and MCE (connector - 40XP1_X314):	OK	Celiwe Sokhela - 491462	TC1
10025	R	There is continuity between (Pin A and Pin z10), (Pin B and b10), (Pin D and Pin d10)	ОК	Celiwe Sokhela - 491462	TC1
10026	I	OTDR LOOP	ОК	Celiwe Sokhela - 491462	TC1
10027	I	Check the continuity between the following points:	ОК	Celiwe Sokhela - 491462	TC1
10028	А	From: [61A2 Speed Indicator IN+ (local: +DD4)] to: [Local(+END2) Connector: -90XP13.b pin1]	ОК	Celiwe Sokhela - 491462	TC1
10029	А	From: [61A2 Speed Indicator OUT- (local: +DD4)] to: [Local(+END2) Connector: - 90XP13.b pin 2]	ОК	Celiwe Sokhela - 491462	TC1



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## **Section 4 – Report summaries**

#### 4.2 Results status

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

Vehicle	Equipment	Expected version	Version loaded
TC1			