



PRASA PROJECT



SELF INSPECTION SHEET

CONFIDENTIAL INFORMATION

This document and the information contemplated therein have to be considered as Confidential Information pursuant to the provisions of Clause 25 of the MSA, and treated as such.

APPLICATION REFERENCE

MOUNTING	DESCRIPTION	STATION	CAR TYPE						WORK INSTRUCTION	SAFETY ?	
			TC1	M4	M1	M2	M3	TC2			
<input type="checkbox"/>	DTR3-PROCE-14	LEVELLING, WEIGHTING AND BALANCING M CAR	FT1140		1	1	1	1		PRA.FT1140.04	YES
<input type="checkbox"/>	DTR3-PROCE-14	LEVELLING, WEIGHTING AND BALANCING TC CAR	FT1140	1					1	PRA.FT1140.05	YES
<input type="checkbox"/>	DTR3-PROCE-17	LEVELLING, WEIGHTING AND BALANCING TC CAR	FT1140	1	1	1	1	1	1	PRA.FT1140.05	YES
<input type="checkbox"/>	DTR3-PROCE-17	LEVELLING, WEIGHTING AND BALANCING TC CAR	FT1140	1	1	1	1	1	1	PRA.FT1140.05	YES
<input type="checkbox"/>											
<input type="checkbox"/>											
<input type="checkbox"/>											

REV	DATE	MODIFICATION CONTENT	RESPONSIBLE	NAME	DATE
7	2/11/2020	UPDATE OF AIR TIGHTNESS TEST TIME FROM 4 MIN TO 5 MIN. ADD PANTOGRAPH AIR TIGHTNESS.	APPROVER	GIVEN SILOWA	2/11/2020
			CHECKER	SIMON MOKOENA	2/11/2020
			COMPILER	COMFORT MALATJI	2/11/2020
8	9/13/2021	ADDING GAUGE MEASUREMENT CHECK ON THE SI.	APPROVER	MAKOFANE LUCY	9/13/2021
			CHECKER	RATAU EDISON	9/13/2021
			COMPILER	TSAKANI KHOSA	9/13/2021
9	5/31/2022	pressure valve (APV) Isolation	APPROVER	MAKHURUPETJI THABANG	5/31/2022
			CHECKER	HAZEL MGIBA	5/31/2022
			COMPILER	RATAU EDISON	5/31/2021

TUE	CAR	OPERATOR NAME	DATE	SELF INSPECTION NUMBER	PAGES
TS 224	TC1	Khumyana	20/05/24	SI.FT1140.52	01/08



SELF INSPECTION INDUSTRIAL QUALITY

Rev:09

Date:

5/31/2022

Projet:
PRASA

SI.FT1140.52

Car:

NCR:

Work Station

FT1140



Safety Related

I - Document and Instrument Control

I.1 - Documents control

Document	T01	M1	M2	M3	M4	T02	Revision	Remark	OK	Signature/Date
PRA.FT1140.04	✓								✓	MCI 20/05/24
PRA.FT1140.05										
PRA.FT1140.05										

I.2 - Instruments Control - Monitoring and Measuring Instrument Control (Used for all Instrument with calibration needed)

Instruments description	Serial number	Calibration or Verification Validation Date	OK	Signature/Date
Measuring Tape	GIBTA 0276	26/10/23 - 26/10/24	✓	
Vernier calliper	GIBVE 0056	06/06/23 - 06/06/24	✓	
Torque wrench 35 Nm	D2861023	19/12/23 - 19/12/24	✓	MCI 20/05/2024
Torque wrench 130 Nm	D28622009	19/12/23 - 19/12/24	✓	
Torque wrench 380 Nm	A9630027	21/12/23 - 21/12/24	✓	
Torque wrench 530 Nm	A9630053	21/12/23 - 21/12/24	✓	
Torque wrench 17 Nm	D2861617	19/12/23 - 19/12/24	✓	



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II - Self Inspection - Items to Check

II.1 - Items to Check

Item	Picture/Sketch	Description	Orifice/Record	OK	Not OK	Signature/Date
01		Ensure that the average pressure valve (APV) is isolated by capping the two input pipes at the fittings installing the blanking fitting on the pipes highlighted		✓		 20/05/24
02		Check underframe pipe system Air tightness. Test performance according to WIPRA FT1130.15.	The test was performed and no leak was observed. Initial pressure (IP) = 10.00 bar Final pressure (FP) = 9.85 bar FP - IP = 0.15 bar APPROVAL CRITERIA: After 5 minutes the pressure cannot drops more than 0.2 bar	✓		 20/05/24
03		Movement performed at least 50m to shudder the car. And position on the leveled load cell, with wheels on the center.		✓		 20/05/24
04		Measurement Inspection was done with car on condition AWO and the rail levelled. (The load cells system must be levelled and calibrated)	Calibration Validation Date 19/12/2023	✓		 20/05/24
05		In case of the equipments not installed, equivalent weight of the item should be added in the same place to simulate the equipment. (Any simulated weight, add on pending list)	EQUIPMENT DESCRIPTION Drivers Seat WEIGHT (kg) 60	✓		 20/05/24
06		The pressure difference between air spring on each bogie when raise the pressure was maintained < 0.3 bar.		✓		 20/05/24
07		Measurement recorded with empty suspension and loaded are on conformity with tolerances of the project.		✓		 20/05/24
08		All leveling measurements are according to the reference. (Values out of reference must be recorded on "Description of defects")		✓		 20/05/24



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Item	Picture/Sketch	Description	Check/Record	Go	Signature/Date
09		Check that the leveling rods are torqued and have torque marker.		✓	MPL 20/05/24
10		The difference of weight between the left and right wheels of each axis, must be ≤4%. (Verify on the T&C equipment if all arrows are in green).		✓	MPL 20/05/24
11		Remove the car, move back onto the load cells and repeat the step 09. Confirm # both are in the tolerance of ≤4%.		✓	MPL 20/05/24
12		1 - Record shims thickness used on rod 2 - All screws were torqued and have torque marker.	THICKNESS (mm) I 0 II 0 III 0 IV 0	✓	MPL 20/05/24
13		Pivot fixation	1- M20 x 90 screws with application of torque according to PRA FT1140.04 / 05	✓	MPL 20/05/24
14		FOR TC CARS F= Height of the center of Automatic coupler F = 895mm (+5 / -10mm) (Using levelled rail)	TC CAB #1= 898 mm	✓	MPL 20/05/24
15		FOR TC CARS Height of Eurobaise Antenna = 205mm(+/-10mm) (Using levelled rail)	TC CAB #1= 197 mm	✓	MPL 20/05/24
16		Check pantograph piping air tightness. Test performance according to WIPRA FT1140.17.	The test was performed and no leak was observed -Roof piping connection fittings -Room piping connection fittings(Roof arch and door trimming)		N/A
17		Pantograph does not come in contact with the higher height gauge when passing through.	No Contact with Pantograph and Gauge -GO Contact with Pantograph and Gauge - NO GO		N/A
18		Car does not come into contact with the gauge.	No Contact with Car and Gauge -GO Contact with Car and Gauge - NO GO	✓	MPL 20/05/24



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DRAFT TO MEASUREMENTS DURING LEVELLING (ALL UNITS MUST BE IN mm/bar/kg)

DESCRIPTION	TOLERANCE	LEFT SIDE						RIGHT SIDE						
		6	5	4	3	2	1	1	2	3	4	5	6	
AIR SPRING HEIGHT (EMPTY)	N/A	A'ii	/	/	/	/	/	/	/	/	/	/	/	A'i
AIR SPRING HEIGHT (FULL)	min 254 max 261	Aii	/	/	/	/	255	260	2	/	/	/	/	Ai
FLOOR COVERING HEIGHT	min 1096 max 1116	Eii	/	/	/	/	3	/	/	/	/	/	/	Ei
AIR SPRING PRESSURE	≤ 0.3 (O1 - C1)	Cii	/	/	/	/	3.62	3.52	/	/	/	/	/	Ci
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	D3	/	/	/	/	/	/	/	/	/	/	/	D1
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	D4	/	/	/	/	/	/	/	/	/	/	/	D2
PIVOT VERTICAL GAP	min 25 max 32	Kii	/	/	/	/	/	/	/	/	/	/	/	Ki
PIVOT LATERAL STOP GAPS DIFFERENCE	≤ 4 (A1 - A)	Jii	/	/	/	/	/	/	/	/	/	/	/	Ji
QTY OF TURNS OF LEVELLING ROD	N/A	Xii	/	/	/	/	/	/	/	/	/	/	/	Xi
SHIMS OF ANTI-ROLL BAR	N/A	Yii	/	/	/	/	/	/	/	/	/	/	/	Yi
DESCRIPTION	TOLERANCE	6	5	4	3	2	1	1	2	3	4	5	6	
AIR SPRING HEIGHT (EMPTY)	N/A	A'iii	/	/	/	/	/	/	/	/	/	/	/	A'iv
AIR SPRING HEIGHT (FULL)	min 254 max 261	Aiii	/	/	/	/	258	256	/	/	/	/	/	Aiv
FLOOR COVERING HEIGHT	min 1096 max 1116	Eiii	/	/	/	/	/	/	/	/	/	/	/	Eiv
AIR SPRING PRESSURE	≤ 0.3 (Ov - Cv)	Ciii	/	/	/	/	2.81	2.86	/	/	/	/	/	Civ
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	D5	/	/	/	/	/	/	/	/	/	/	/	D7
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	D6	/	/	/	/	/	/	/	/	/	/	/	D8
PIVOT VERTICAL GAP	min 25 max 32	Kiii	/	/	/	/	/	/	/	/	/	/	/	Kiv
PIVOT LATERAL STOP GAPS DIFFERENCE	≤ 4 (kv - kv)	Jiii	/	/	/	/	/	/	/	/	/	/	/	Jiv
QTY OF TURNS OF LEVELLING ROD	N/A	Xiii	/	/	/	/	/	/	/	/	/	/	/	Xiv
SHIMS OF ANTI-ROLL BAR	N/A	Yiii	/	/	/	/	/	/	/	/	/	/	/	Yiv

COMPARE EACH TENTATIVE WITH THE TOLERANCE AND IDENTIFY EACH MEASURE AS BELOW

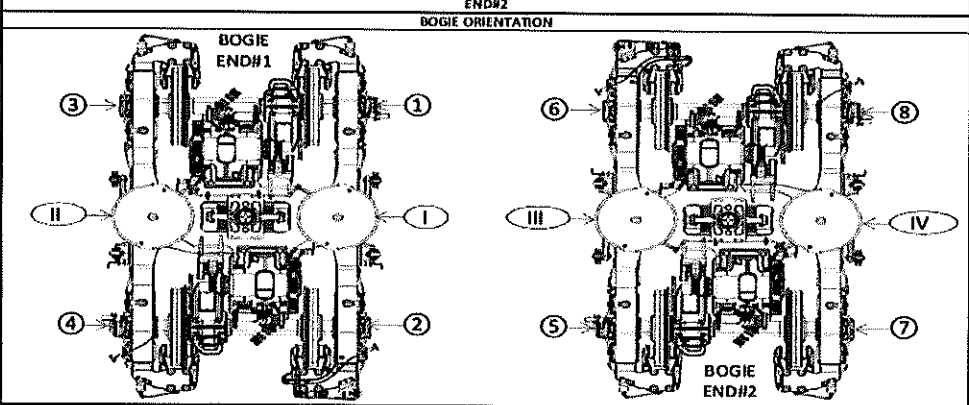
GOOD	LOWER	HIGHER
✓	↓	↑

WEIGHT COMPENSATION

EQUIPMENT	
WEIGHT	
EQUIPMENT	
WEIGHT	

SECONDARY MEASUREMENTS (ONLY TO CAR)

AUTOMATIC COUPLER HEIGHT	
ANTENNA HEIGHT	





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DRAFT TO MEASUREMENTS DURING LEVELLING (ALL UNITS MUST BE IN mm/bar/kg)

DESCRIPTION	TOLERANCE	END#1												
		LEFT SIDE						RIGHT SIDE						
		6	5	4	3	2	1	1	2	3	4	5	6	
AIR SPRING HEIGHT (EMPTY)	N/A	A ⁱⁱ	/	/	/	/	/	/	/	/	/	/	/	A ⁱ
AIR SPRING HEIGHT (FULL)	min 254 max 261	A ⁱⁱ												A ⁱ
FLOOR COVERING HEIGHT	min 1096 max 1116	E ⁱⁱ												E ⁱ
AIR SPRING PRESSURE	≤ 0.3 (C ⁱ - C ^o)	C ⁱⁱ												C ⁱ
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	D ^s	/	/	/	/	/	/	/	/	/	/	/	D ¹
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	D ^a	/	/	/	/	/	/	/	/	/	/	/	D ²
PIVOT VERTICAL GAP	min 25 max 32	K ⁱⁱ												K ⁱ
PIVOT LATERAL STOP GAPS DIFFERENCE	≤ 4 (J ⁱ - J ^o)	J ⁱⁱ												J ⁱ
QTY OF TURNS OF LEVELLING ROD	N/A	X ⁱⁱ	/	/	/	/	/	/	/	/	/	/	/	X ⁱ
SHIMS OF ANTI-ROLL BAR	N/A	Y ⁱⁱ	/	/	/	/	/	/	/	/	/	/	/	Y ⁱ
DESCRIPTION	TOLERANCE	6	5	4	3	2	1	1	2	3	4	5	6	
AIR SPRING HEIGHT (EMPTY)	N/A	A ⁱⁱⁱ	/	/	/	/	/	/	/	/	/	/	/	A ^{iv}
AIR SPRING HEIGHT (FULL)	min 254 max 261	A ⁱⁱⁱ												A ^{iv}
FLOOR COVERING HEIGHT	min 1096 max 1116	E ⁱⁱⁱ												E ^{iv}
AIR SPRING PRESSURE	≤ 0.3 (C ^{iv} - C ^o)	C ⁱⁱⁱ												C ^{iv}
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	D ^s	/	/	/	/	/	/	/	/	/	/	/	D ⁷
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	D ⁶	/	/	/	/	/	/	/	/	/	/	/	D ⁸
PIVOT VERTICAL GAP	min 25 max 32	K ⁱⁱⁱ												K ^{iv}
PIVOT LATERAL STOP GAPS DIFFERENCE	≤ 4 (J ^{iv} - J ^o)	J ⁱⁱⁱ												J ^{iv}
QTY OF TURNS OF LEVELLING ROD	N/A	X ⁱⁱⁱ	/	/	/	/	/	/	/	/	/	/	/	X ^{iv}
SHIMS OF ANTI-ROLL BAR	N/A	Y ⁱⁱⁱ	/	/	/	/	/	/	/	/	/	/	/	Y ^{iv}

COMPARE EACH TENTATIVE WITH THE TOLERANCE AND IDENTIFY EACH MEASURE AS BELOW

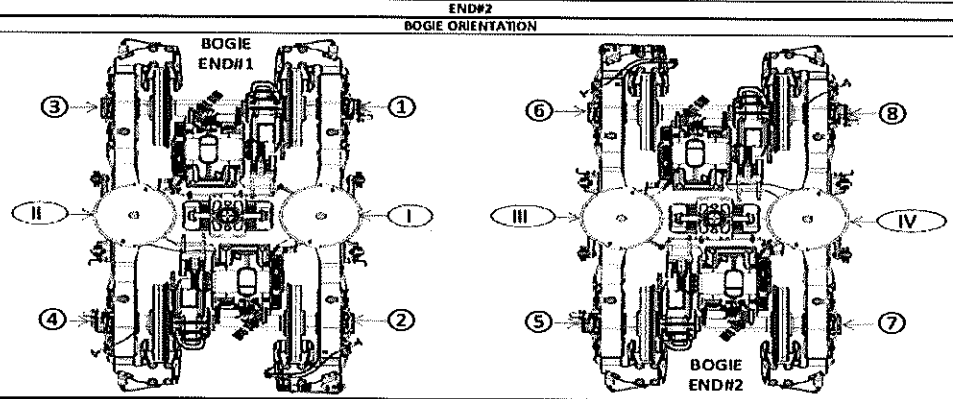
GOOD	LOWER	HIGHER
✓	↓	↑

WEIGHT COMPENSATION

EQUIPMENT	
WEIGHT	
EQUIPMENT	
WEIGHT	

SECONDARY MEASUREMENTS (ONLY TO CARS)

AUTOMATIC COUPLER HEIGHT	
ANTENNA HEIGHT	





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Table 1 - Reference Values and Measurement Tolerances for the Car Levelling.

ITEM	THEORETICAL VALUES															
	TCL CAR		M4 CAR		M3 CAR		M2 CAR		M1 CAR		M2 CAR		M1 CAR		TCL CAR	
	TBact	TBint	MB1	MB2	MB1	MB2	MB1	MB2	MB1	MB2	MB1	MB2	MB1	MB2	TBint	TBact
Pivot lateral stop gap difference [mm]	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4
Air Spring height [mm]	255 ⁺⁰ ₋₁	255 ⁺⁰ ₋₁	255 ⁺⁰ ₋₁	255 ⁺⁰ ₋₁	255 ⁺⁰ ₋₁	255 ⁺⁰ ₋₁	255 ⁺⁰ ₋₁	255 ⁺⁰ ₋₁	255 ⁺⁰ ₋₁	255 ⁺⁰ ₋₁	255 ⁺⁰ ₋₁	255 ⁺⁰ ₋₁	255 ⁺⁰ ₋₁	255 ⁺⁰ ₋₁	255 ⁺⁰ ₋₁	255 ⁺⁰ ₋₁
Air spring pressure at AWD [Bar]	3,76	2,82	2,87	2,83	3,02	2,91	3,07	2,85	2,83	2,87	2,83	2,85	2,83	2,83	2,83	2,83
	(Ref.)	(Ref.)	(Ref.)	(Ref.)	(Ref.)	(Ref.)	(Ref.)	(Ref.)	(Ref.)	(Ref.)	(Ref.)	(Ref.)	(Ref.)	(Ref.)	(Ref.)	(Ref.)
	0,3 Mbc.	0,3 Mbc.	0,3 Mbc.	0,3 Mbc.	0,3 Mbc.	0,3 Mbc.	0,3 Mbc.	0,3 Mbc.	0,3 Mbc.	0,3 Mbc.	0,3 Mbc.	0,3 Mbc.	0,3 Mbc.	0,3 Mbc.	0,3 Mbc.	0,3 Mbc.
Primary Suspension gaps [mm]	D ₁ ; D ₂	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁
	D ₃ ; D ₄	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁
	D ₅ ; D ₆	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁
	D ₇ ; D ₈	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁	35 ⁺⁰ ₋₁
Carbody Floor height [mm]	1106 ⁺¹⁰ ₋₁₀	1106 ⁺¹⁰ ₋₁₀	1106 ⁺¹⁰ ₋₁₀	1106 ⁺¹⁰ ₋₁₀	1106 ⁺¹⁰ ₋₁₀	1106 ⁺¹⁰ ₋₁₀	1106 ⁺¹⁰ ₋₁₀	1106 ⁺¹⁰ ₋₁₀	1106 ⁺¹⁰ ₋₁₀	1106 ⁺¹⁰ ₋₁₀	1106 ⁺¹⁰ ₋₁₀	1106 ⁺¹⁰ ₋₁₀	1106 ⁺¹⁰ ₋₁₀	1106 ⁺¹⁰ ₋₁₀	1106 ⁺¹⁰ ₋₁₀	1106 ⁺¹⁰ ₋₁₀
Boilster height [mm]	850 ⁺¹⁰ ₋₁₀	850 ⁺¹⁰ ₋₁₀	850 ⁺¹⁰ ₋₁₀	850 ⁺¹⁰ ₋₁₀	850 ⁺¹⁰ ₋₁₀	850 ⁺¹⁰ ₋₁₀	850 ⁺¹⁰ ₋₁₀	850 ⁺¹⁰ ₋₁₀	850 ⁺¹⁰ ₋₁₀	850 ⁺¹⁰ ₋₁₀	850 ⁺¹⁰ ₋₁₀	850 ⁺¹⁰ ₋₁₀	850 ⁺¹⁰ ₋₁₀	850 ⁺¹⁰ ₋₁₀	850 ⁺¹⁰ ₋₁₀	850 ⁺¹⁰ ₋₁₀
Coupling End height [mm]	E ₁	895 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	895 (Ref.)	760 (Ref.)	760 (Ref.)
	E ₂	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)
Pivot Vertical gap [mm]	K ₁	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅
	K ₂	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅



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Leveling report from Production (Final measurements after Levelling and Weighing fine)

References for secondary suspension empty
A'n Air spring height empty

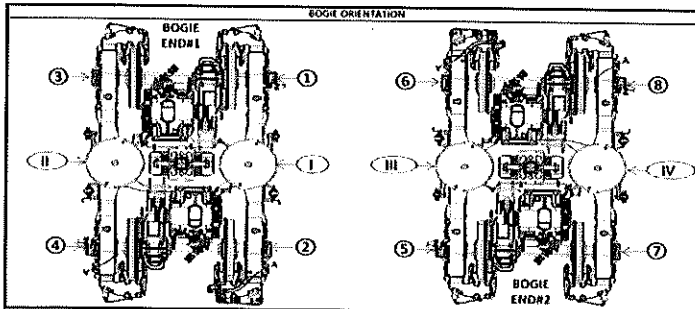
References for secondary suspension full
An Air spring height
Bn Difference between measurement A'n and An
En Floor covering height
Cn Air spring pressure
Dn Primary suspension
Kn Pivot Vertical gap
Jn Pivot Lateral stop gaps difference

Item	Reference [mm]	END#1		END#2	
		Right Side	Left Side	Left Side	Right Side
A'n	N/A	A'i 234	A's 232	A'ii 238	A'iv 242
An	254 to 261	Ai 260	Au 255	Au 255	Aiv 259
Bn = An - A'n	N/A	Bi 26	Bs 23	Bi 17	Biv 17
En	1108 ±10 mm	Ei 1116	Es 1102	Eii 1113	Eiv 1109
Item	Reference [bar]	END#1		END#2	
Cn	Table 02 (*)	Ci 3.54	Cs 3.58	Cii 2.87	Civ 2.77
Cn - Cn+1	Diference ≤ 0,3	Ci - Cs 0,04		Cii - Civ 0,1	
Gauge serial number	N/A	91B05873	91B05873	91B05873	91B05873
Item	Reference [mm]	END#1		END#2	
Dn	Table 01 (*)	Right Side	Left Side	Left Side	Right Side
		D1 44.69	Ds 44.53	Dii 45.37	Div 45.09
Kn	25 to 45	D2 44.84	Ds 44.53	Dii 44.80	Div 44.54
		Ki 30.73		Kii 36.14	
Jn	Diference ≤ 4	Ji 24.92	Js 25.97	Jii 25.40	Jiv 24.63


(*) Reference, only include values, isn't approval criteria.

Table 01 D Theoretical Values	TC1		M4		M1		M2		M3		TC2	
	Tbox	TBin	Mb1	Mb1	Mb1	Mb2	Mb1	Mb1	Mb1	Mb1	Tbin	Tbox
D=	35 ⁺¹² / ₋₅	35 ⁺¹² / ₋₅	35 ⁺¹² / ₋₅	35 ⁺¹² / ₋₅	35 ⁺¹² / ₋₅	35 ⁺¹² / ₋₅	35 ⁺¹² / ₋₅	35 ⁺¹² / ₋₅	35 ⁺¹² / ₋₅	35 ⁺¹² / ₋₅	35 ⁺¹² / ₋₅	35 ⁺¹² / ₋₅

Table 02 C Theoretical Values	TC1		M4		M1		M2		M3		TC2	
	Tbox	TBin	Mb1	Mb1	Mb1	Mb2	Mb1	Mb1	Mb1	Mb1	Tbin	Tbox
C=	3.76	2.82	2.87	2.83	3.02	2.91	3.07	2.85	2.83	2.87	2.83	3.76



Weighting report from Test and Commissioning (Final measurements after Levelling and Weighing fine)



	<h1>SELF INSPECTION INDUSTRIAL QUALITY</h1>	Rev:09	Projet: PRASA	SI.FT1140.52
		Date:		
		5/31/2022		

Item	Description of defects	OK	NO	Signature/Date

RE2 - Check List REX

Check List Items						
Item	Picture/Drawing	Description/Description	Critera/Remark	OK	NO	Signature/Date
01	N/A	To complete REX	Refer to REX. New defects must be added on the REX	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MPL 20/05/24

Self Inspection - Final Result

Is the car good to advance to the next workstation/process? (Approval of Operations Manager/Team Leader and Industrial Quality)		DATE	NAME	SIGNATURE
HOLD POINT	GO	20/05/24	Operations Manager	
		20/05/24	Industrial Quality	
			Operations Manager	
			Industrial Quality	

In case of "NO GO", describe blocking problems

In case of "NO GO", the operations manager must define below action plan to ensure "GO":

Item	Description	Action	Responsible	Status

Operations Manager / Team Leader Quality Manager / Team Leader

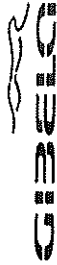
Gibela Rail Transport Consortium: RF (Pty)
Ltd

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Dunmottar X7

Ekurhuleni, 1590, South Africa

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TRAIN SET 224	REF: GIB0000001672_JO PRASA WEIGHT BALANCE EN
	PC09 WEIGHING REPORT

	Front Bogie [Tons]	Rear Bogie [Tons]	Longitudinal Imbalance [%]	Criteria Longitudinal Imbalance ≤ 10%
Tc1	18.52	15.39	9.23%	PASS
	Weight Measured [Tons]	Weight Predicted [Tons]	Weight Difference [%]	Criteria MinDiff/Max
	33.91	34.42	1.49%	1.62% PASS

Test Participants	
Name	Date
Mato Moko	20/05/24
Company: Gibela	
Department: EOS	
Signature: <i>[Signature]</i>	