



**PRASA PROJECT**



# SELF INSPECTION SHEET

**CONFIDENTIAL INFORMATION**

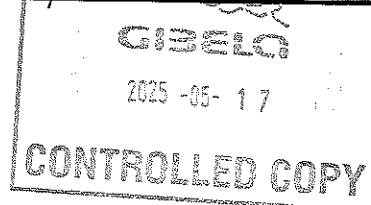
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**APPLICATION REFERENCE**

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					X	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
TS223	TC2	GOODNESS	17/03/24	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

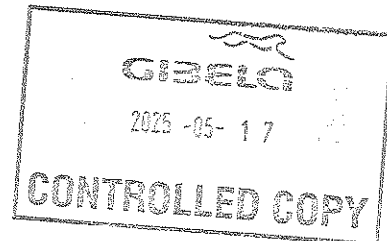
## I - Document and Instrument Control

### I.1 - Documents control

Document	TC1	M1	MC	MS	MA	TC2	Revision	Remark	Signature/Date
PRA.FT1140.04									 17/05/24
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	GIRTA 0276	26/10/23	✓	 42/50/24 17/05/24
Vernier Caliper	GIRVE 0056	06/06/23	✓	
Torque Wrench 150NM	D28622009	19/12/23	✓	
Torque Wrench 320NM	A9650053	21/12/23	✓	
Torque Wrench 530NM	A9650053	21/12/23	✓	
Torque Wrench 35NM	D2811023	19/12/23	✓	
Torque Wrench 17NM	D2861617	19/12/23	✓	





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## II - Self Inspection - Items to Check

### II.1 - Items to Check

Item	Picture/Sketch	Description	Criteria/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		✓		 17/05/24
02		Check underframe pipe system Air tightness. Test performance according to WI PRA.FT1130.15.	The test was performed and no leak was observed. Initial pressure (IP): 10.22 bar Final pressure (FP): 10.12 bar FP - IP = 0.10 bar APPROVAL CRITERIA: After 5 minutes the pressure cannot drops more than 0,2 bar	✓		 17/05/24
03		Movement performed at least 50m to shudder the car. And position on the leveled load cell, with wheels on the center.		✓		 17/05/24
04		Measurement inspection was done with car on condition AW0 and the rail levelled. (The load cells system must be levelled and calibrated)	Calibration Validation Date _ _ / _ _ / _ _	✓		 17/05/24
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   WEIGHT (kg) _____ _____ _____ _____ _____ _____ _____ _____	✓		 17/05/24
06		The pressure difference between air spring on each bogie when raise the pressure was maintained < 0.3 bar.		✓		 17/05/24
07		Measurement recorded with empty suspension and loaded are on conformity with tolerances of the project.		✓		 17/05/24
08		All levelling measurements are according to the reference. (Values out of reference must be recorded on "Description of defects")		✓		 17/05/24

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Item	Picture/Sketch	Description	Criteria/Receiver	Signature/Date
09		Check that the levelling rods are torqued and have torque marker.		 17/05/24
10		The difference of weight between the left and right wheels of each axis, must be $\leq 4\%$ . (Verify on the T&C equipment if all arrows are in green).		 17/05/24
11		Remove the car, move back onto the load cells and repeat the step 09. Confirm if both are in the tolerance of $\leq 4\%$ .		 17/05/24
12		1 - Record shims thickness used on rod. 2 - All screws were torqued and have torque marker.	THICKNESS (mm) I 0 II 0 III 1.5MM IV 1.5MM	 17/05/24
13		Pivot fixation	1- M20 x 80 screws with application of torque according to PRA.FT1140.04 / 05	 17/05/24
14		FOR TC CARS F= Height of the center of Automatic coupler F = 895mm (+5 / -10mm) (Using levelled rail)	TC CAB #1= 895 mm	 17/05/24
15		FOR TC CARS Height of Eurabalise Antenna = 205mm (+/-10mm) (Using levelled rail)	TC CAB #1= 197 mm	 17/05/24
16		Check pantograph piping air tightness. Test performance according to WI PRA.FT1140.17.	The test was performed and no leak was observed. -Roof piping connection fittings. -Room piping connection fittings(Roof arch and door trimming)	M/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	M/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	 17/05/24

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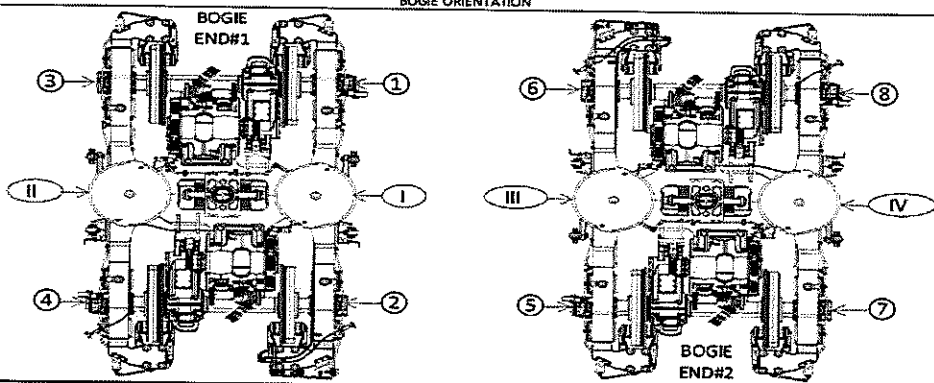
Proj:  
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## DRAFT TO MEASUREMENTS DURING LEVELLING (ALL UNITS MUST BE IN mm/bar/kg)

DESCRIPTION	TOLERANCE	END#1												
		LEFTSIDE						RIGHTSIDE						
		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	/	/	/	/	258	255	/	/	/	/	/	A`i
FLOOR COVERING HEIGHT	min 1096 max 1116	E`ii	/	/	/	/	/	/	/	/	/	/	/	E`i
AIR SPRING PRESSURE	≤ 0.3 (Ci - Cj)	C`ii	/	/	/	/	3.49	3.62	/	/	/	/	/	C`i
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	D`3	/	/	/	/	/	/	/	/	/	/	/	D`1
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	D`4	/	/	/	/	/	/	/	/	/	/	/	D`2
PIVOT VERTICAL GAP	min 25 max 32	K`ii	/	/	/	/	/	/	/	/	/	/	/	K`i
PIVOT LATERAL STOP GAPS DIFFERENCE	≤ 4 (Ji - Jj)	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	/	/	/	/	257	255	/	/	/	/	/	A`iv
FLOOR COVERING HEIGHT	min 1096 max 1116	E`iii	/	/	/	/	/	/	/	/	/	/	/	E`iv
AIR SPRING PRESSURE	≤ 0.3 (Cv - Cw)	C`iii	/	/	/	/	2.72	2.93	/	/	/	/	/	C`iv
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	D`5	/	/	/	/	/	/	/	/	/	/	/	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 (Jiv - Jii)	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 TC CASES)		
AUTOMATIC COUPLER HEIGHT		
ANTENNA HEIGHT		



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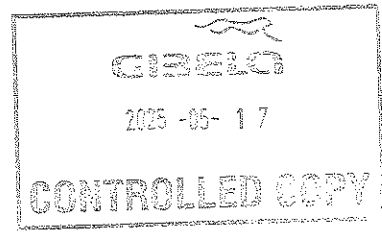
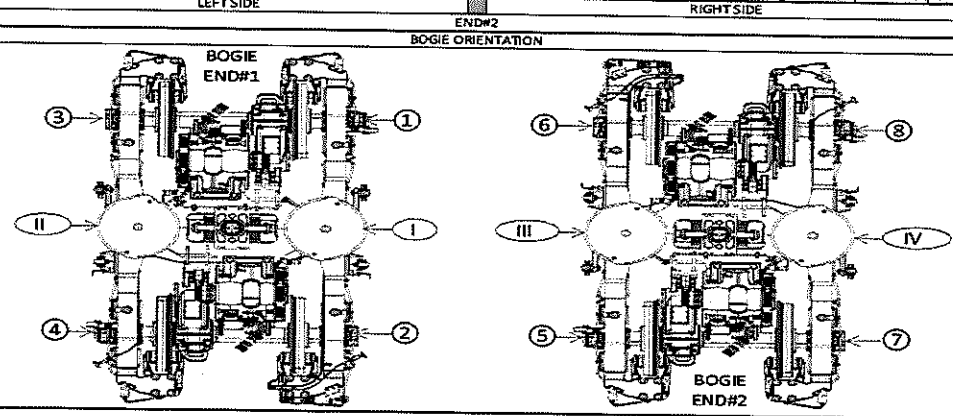
Proj:  
PRASA

SI.FT1140.52

## 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 <sup>II</sup>												A <sup>I</sup>
AIR SPRING HEIGHT (FULL)	min 254 max 261	A <sup>II</sup>												A <sup>I</sup>
FLOOR COVERING HEIGHT	min 1096 max 1116	E <sup>II</sup>												E <sup>I</sup>
AIR SPRING PRESSURE	≤ 0.3 (C <sup>I</sup> - C)	C <sup>II</sup>												C <sup>I</sup>
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	D <sup>3</sup>												D <sup>1</sup>
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	D <sup>4</sup>												D <sup>2</sup>
PIVOT VERTICAL GAP	min 25 max 32	K <sup>II</sup>												K <sup>I</sup>
PIVOT LATERAL STOP GAPS DIFFERENCE	≤ 4 (J <sup>I</sup> - J)	J <sup>II</sup>												J <sup>I</sup>
QTY OF TURNS OF LEVELLING ROD	N/A	X <sup>I</sup>												X <sup>I</sup>
SHIMS OF ANTI-ROLL BAR	N/A	Y <sup>II</sup>												Y <sup>I</sup>
DESCRIPTION	TOLERANCE	6	5	4	3	2	1	1	2	3	4	5	6	
AIR SPRING HEIGHT (EMPTY)	N/A	A <sup>III</sup>												A <sup>IV</sup>
AIR SPRING HEIGHT (FULL)	min 254 max 261	A <sup>III</sup>												A <sup>IV</sup>
FLOOR COVERING HEIGHT	min 1096 max 1116	E <sup>III</sup>												E <sup>IV</sup>
AIR SPRING PRESSURE	≤ 0.3 (C <sup>IV</sup> - C <sup>III</sup> )	C <sup>III</sup>												C <sup>IV</sup>
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	D <sup>5</sup>												D <sup>7</sup>
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	D <sup>6</sup>												D <sup>8</sup>
PIVOT VERTICAL GAP	min 25 max 32	K <sup>III</sup>												K <sup>IV</sup>
PIVOT LATERAL STOP GAPS DIFFERENCE	≤ 4 (J <sup>IV</sup> - J <sup>III</sup> )	J <sup>III</sup>												J <sup>IV</sup>
QTY OF TURNS OF LEVELLING ROD	N/A	X <sup>III</sup>												X <sup>IV</sup>
SHIMS OF ANTI-ROLL BAR	N/A	Y <sup>III</sup>												Y <sup>IV</sup>

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		M1 CAR		M2 CAR		M3 CAR		M2 CAR		TCL CAR	
	TBext	TBint	MB1	MB2	MB1	MB2	MB1	MB2	MB1	MB2	MB1	MB2	TBint	TBext
Pivot lateral stop gaps difference (mm)	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4
Air Spring height (mm)	Fig. 4	255 <sup>+6</sup> <sub>-4</sub>	255 <sup>+6</sup> <sub>-4</sub>	255 <sup>+6</sup> <sub>-4</sub>	255 <sup>+6</sup> <sub>-4</sub>	255 <sup>+6</sup> <sub>-4</sub>	255 <sup>+6</sup> <sub>-4</sub>	255 <sup>+6</sup> <sub>-4</sub>	255 <sup>+6</sup> <sub>-4</sub>	255 <sup>+6</sup> <sub>-4</sub>	255 <sup>+6</sup> <sub>-4</sub>	255 <sup>+6</sup> <sub>-4</sub>	255 <sup>+6</sup> <sub>-4</sub>	255 <sup>+6</sup> <sub>-4</sub>
	Fig. 5	3,76 (Ref.)	2,87 (Ref.)	2,83 (Ref.)	3,02 (Ref.)	2,91 (Ref.)	3,07 (Ref.)	2,85 (Ref.)	2,83 (Ref.)	2,87 (Ref.)	2,83 (Ref.)	2,83 (Ref.)	2,83 (Ref.)	3,76 (Ref.)
Air spring pressure at AWD [Bar]	Fig. 5	0,3 Máx.	0,3 Máx.	0,3 Máx.	0,3 Máx.	0,3 Máx.	0,3 Máx.	0,3 Máx.	0,3 Máx.	0,3 Máx.	0,3 Máx.	0,3 Máx.	0,3 Máx.	0,3 Máx.
	Fig. 5	35 <sup>+13</sup> <sub>-5</sub>	35 <sup>+13</sup> <sub>-5</sub>	35 <sup>+13</sup> <sub>-5</sub>	35 <sup>+13</sup> <sub>-5</sub>	35 <sup>+13</sup> <sub>-5</sub>	35 <sup>+13</sup> <sub>-5</sub>	35 <sup>+13</sup> <sub>-5</sub>	35 <sup>+13</sup> <sub>-5</sub>	35 <sup>+13</sup> <sub>-5</sub>	35 <sup>+13</sup> <sub>-5</sub>	35 <sup>+13</sup> <sub>-5</sub>	35 <sup>+13</sup> <sub>-5</sub>	35 <sup>+13</sup> <sub>-5</sub>
Primary suspension gaps (mm)	Fig. 6	1106 <sup>+10</sup> <sub>-10</sub>	1106 <sup>+10</sup> <sub>-10</sub>	1106 <sup>+10</sup> <sub>-10</sub>	1106 <sup>+10</sup> <sub>-10</sub>	1106 <sup>+10</sup> <sub>-10</sub>	1106 <sup>+10</sup> <sub>-10</sub>	1106 <sup>+10</sup> <sub>-10</sub>	1106 <sup>+10</sup> <sub>-10</sub>	1106 <sup>+10</sup> <sub>-10</sub>	1106 <sup>+10</sup> <sub>-10</sub>	1106 <sup>+10</sup> <sub>-10</sub>	1106 <sup>+10</sup> <sub>-10</sub>	1106 <sup>+10</sup> <sub>-10</sub>
	Fig. 6	850 <sup>+3</sup> <sub>-7</sub>	850 <sup>+3</sup> <sub>-7</sub>	850 <sup>+3</sup> <sub>-7</sub>	850 <sup>+3</sup> <sub>-7</sub>	850 <sup>+3</sup> <sub>-7</sub>	850 <sup>+3</sup> <sub>-7</sub>	850 <sup>+3</sup> <sub>-7</sub>	850 <sup>+3</sup> <sub>-7</sub>	850 <sup>+3</sup> <sub>-7</sub>	850 <sup>+3</sup> <sub>-7</sub>	850 <sup>+3</sup> <sub>-7</sub>	850 <sup>+3</sup> <sub>-7</sub>	850 <sup>+3</sup> <sub>-7</sub>
	Fig. 6	895 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	895 (Ref.)	895 (Ref.)
	Fig. 6	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.)
Coupling End height (mm)	Fig. 8	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>
	Fig. 9	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>
Pivot Vertical gap (mm)	Fig. 10	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>
	Fig. 10	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>	30 <sup>+13</sup> <sub>-5</sub>

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Leveling report from Production (Final measurements after Leveling and Weighting fine)

References for secondary suspension empty

A'n Air spring height empty

References for secondary suspension full

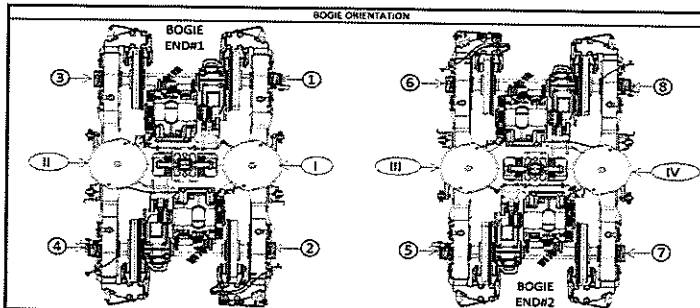
- An Air spring height
- Bn Difference between measurement A'n and An
- En Floor covering height
- Cn Air spring pressure
- Dn Primary suspension
- Kn Pivot Vertical gap
- Jn Pivot Lateral stop gaps difference

Item	Reference [mm]	END#1		END#2	
		Right Side	Left Side	Left Side	Right Side
A'n	N/A	A'i 231	A'h 233	A'ii 240	A'iv 241
An	254 to 261	Ai 256	Aii 258	Aiii 257	Aiv 259
Bn = An - A'n	N/A	Bi 25	Bii 25	Biii 17	Biv 18
En	1106 ±10 mm	Ei 1109	Eii 1110	Eiii 1106	Eiv 1114
Item	Reference [bar]	END#1		END#2	
Cn	Table 02 (*)	Ci 3.54	Cii 3.62	Ciii 2.83	Civ 2.82
Cn - Cn+1	Difference ≤ 0,3	Ci - Cii 0.08		Ciii - Civ 0.03	
Gauge serial number	N/A	91B05873		91B05873	
Item	Reference [mm]	END#1		END#2	
Dn	Table 01 (*)	D1 45.62	Ds 44.18	Ds 44.84	Ds 44.94
		Dz 45.39	Dz 45.25	Dz 44.86	Dz 45.80
Kn	25 to 45	30.56		36.48	
Jn	Difference ≤ 4	Ji 26.50	Jii 25.13	Jiii 24.67	Jiv 26.17

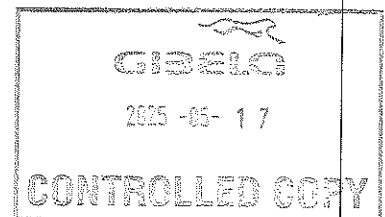
(\*) Reference, only include values, isn't approval criteria.

Table 01 D Theoretical Values	TC1		M4		M1		M2		M3		TC2	
	Tbex	TBin	Mb1	Mb1	Mb1	Mb2	Mb2	Mb1	Mb1	Mb1	Tbin	Tbex
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	
	Tbex	TBin	Mb1	Mb1	Mb1	Mb2	Mb2	Mb1	Mb1	Mb1	Tbin	Tbex
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 Leveling and Weighting fine)







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TRAIN SET 223  
REF: GIB0000001672\_JO PRASA WEIGHT BALANCE EN  
PC09 WEIGHING REPORT

TC2	Balance across front and rear bogies		Longitudinal Imbalance [%]		Criteria Longitudinal Imbalance ≤ 10% PASS
	Weight Measured vs Predicted	Weight Measured [Tons]	Weight Predicted [Tons]	Weight Difference [%]	
		18,49	15,61	8,45%	
		34,10	34,46	1,04%	
					Criteria MinDiff:Max PASS

Test Participants			
Name	Company	Department	Signature
Puleng Zwane	Gibela	EOC	<i>[Signature]</i>

Date: 17 May 2014