

	Page
30 CHASSIS	
Overview	30-1
Suspension fastening points.....	30-5
Suspension adjustment Tables	30-9
31 FRONT AXLE ASSEMBLY	
Presentation	31-1
Adjustments.....	31-2
Hub carrier	31-3
Spring-damper set.....	31-6
Antiroll	31-11
33 REAR AXLE ASSEMBLY	
Presentation	33-1
Adjustments.....	33-2
Hub carrier	33-3
Spring-damper set.....	33-6
35 WHEELS AND TYRES	
Characteristics.....	35-1
36 STEERING ASSEMBLY	
Steering rack	36-1
37 BRAKES	
System components	37-1
38 THROTTLE COMMAND	
Recommendation	38-1

39 AERODYNAMICS

Wings39-1

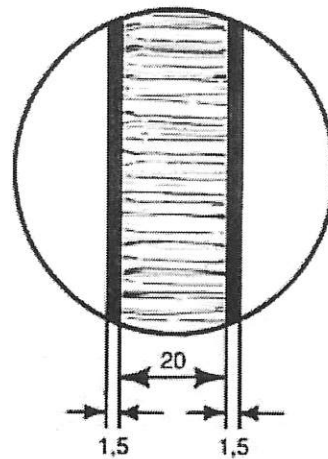
CHARACTERISTICS

- Front suspension: single-damper push rod.
- Rear suspension: bi-damper push rod.
- Dampers: adjustable compression travel and rebound travel.
- Springs: four rigidity front and rear spring stiffeners. Helical type.
- Brake callipers: four pistons.
- Brake discs: 274x17,5mm, ventilated.
- Rims: middle fastener.
 - front : 8x13,
 - Rear: 10x13.
- Wheelbase: 2,645mm.
- Front track: 1,471mm.
- Rear track: 1,366mm.
- Weight: 490kg.
- Fuel tank capacity: 39L.

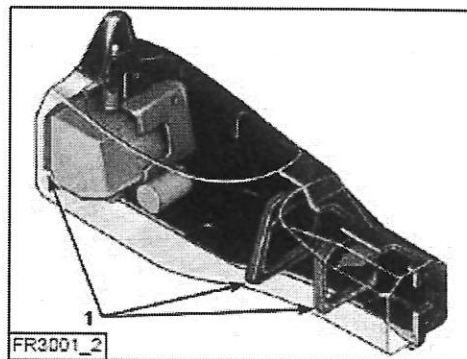
PRESENTATION

Body structure

The body structure is made up of an aluminium honeycomb structure with a vacuum-kilned carbon fibre skin.



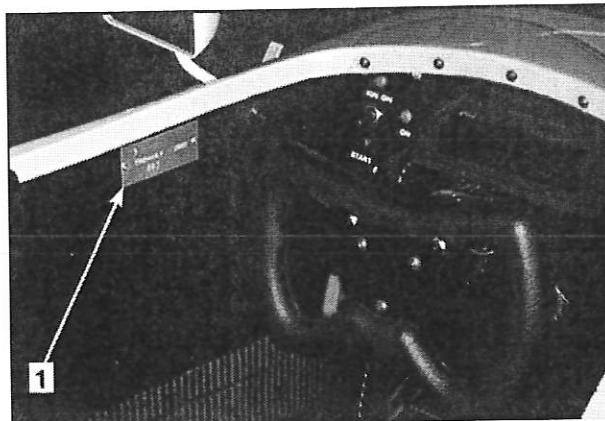
Three aluminium bulkheads (1) take up the loads of the engine and suspension fasteners.



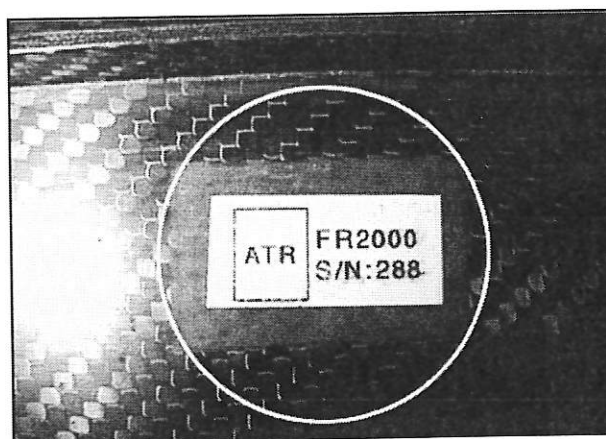
Identification

It is executed by:

- A plate (1) fixed on the left side of the body.



- A sticker stuck on the body under the head protection.



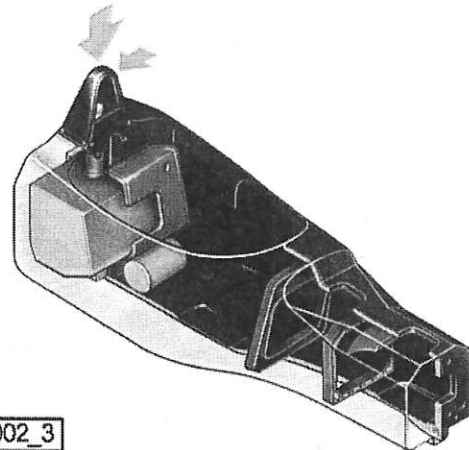
SAFETY TESTS

NOTA: All tests are performed in accordance with standard FIA F.3.

Load test on safety roll bar

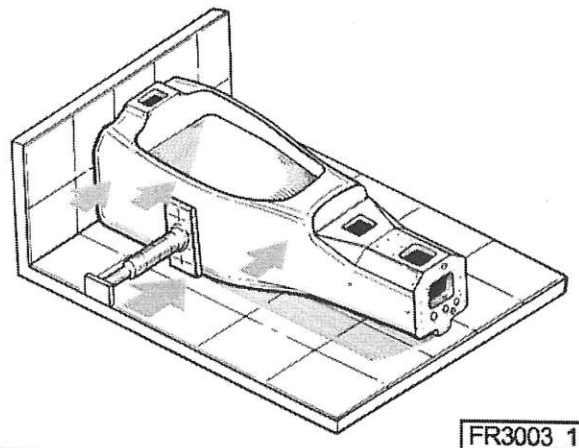
This test was performed with the safety roll bar installed on the chassis. Three forces equivalent to 7,5, 5,5 and 1,5 times the weight of the car, with the driver in it, were applied simultaneously:

- Vertically.
- Longitudinally.
- Laterally.



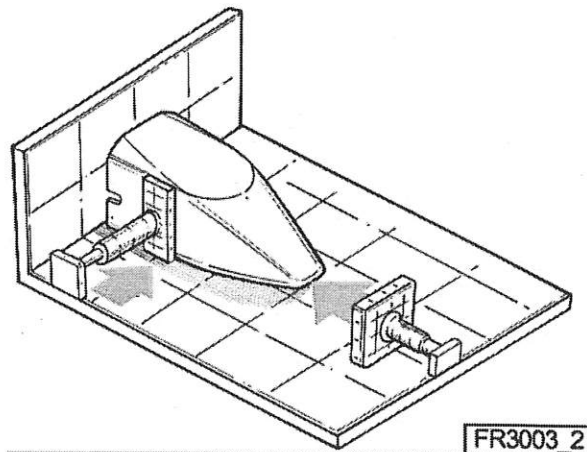
Lateral load test on body structure

The body structure was subjected to various lateral load tests, from 1000 to 2000kg.



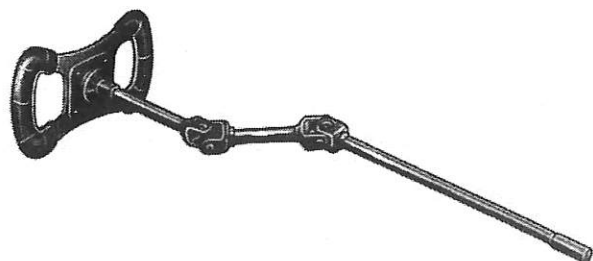
Frontal crash test and nose fastening test

- Nose fasteners were subjected to a lateral load of 30.00 kN.
- The front crash test, with the nose installed on the chassis, was carried out at a speed of 12.5 m/s.



Steering column test crash

The test was performed on a tube fitted with its mountings. The impact on the steering wheel was made with a weight of 8kg, at a speed of 7m/s.

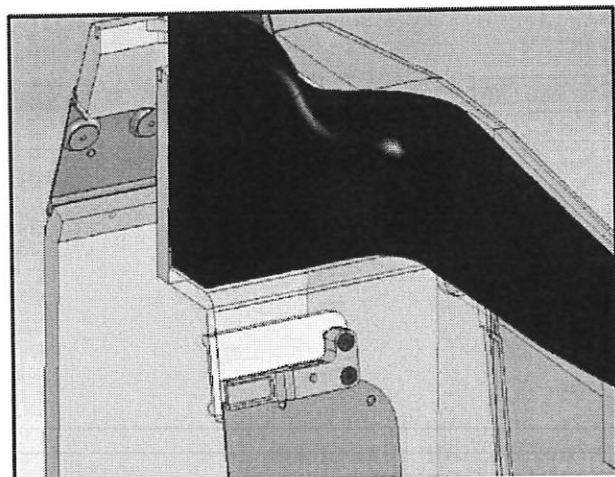
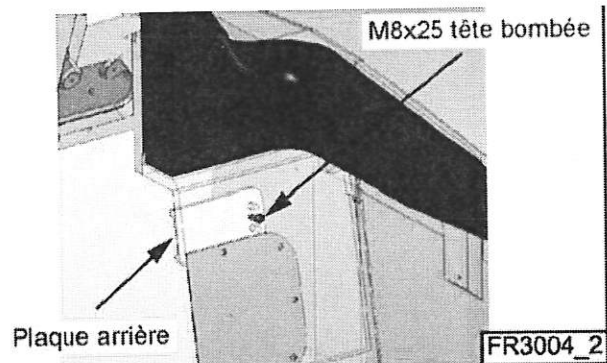
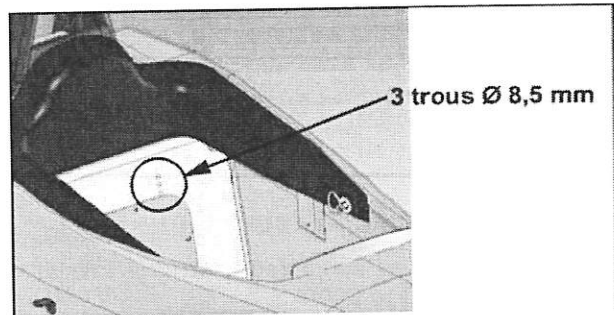


HANS SYSTEM (ACCORDING TO SPECIFIC REGULATIONS)

In some championships, the safety belts support (ref. 77 11 154 981) necessary to attach the HANS-compatible harness shoulder straps is mandatory. It has to be attached in place of the original shoulder straps.

THE INSTALLATION INSTRUCTIONS OF THE SAFETY BELTS SUPPORT

- Remove the fuel tank, then rebores the existing harnesses holes with an 8,5mm diameter in order to remove the threading.
- Open the tank panel and position the rear plate, please note that the smooth face must be in contact with the bulkhead. The two bolts M8x25 button head in the centre holes will hold the plate in position. The bulkhead should have a flat carbon surface on the tank side, if necessary, you can improve the flatness adding some epoxy resin.
- Now you can install the HANS adapter using the four M8x45 countersunk bolts. Note that you can reverse the bracket to adjust the height of the belt fixation.
- The two remaining screws are necessary to fix the belt bracket on the adapter.



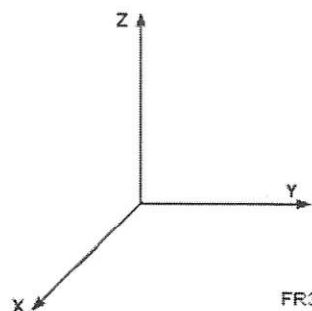
ADJUSTMENT OF FASTENING POINTS OF SUSPENSION

Reference system

Suspension geometry is defined by the coordinates of the points in space.

The X, Y and Z reference axis system is defined as follows.

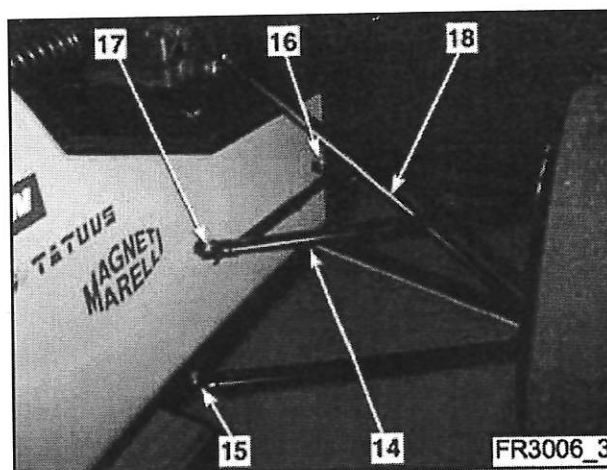
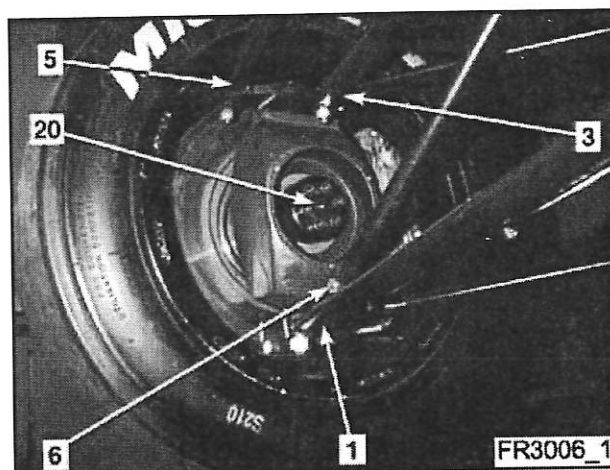
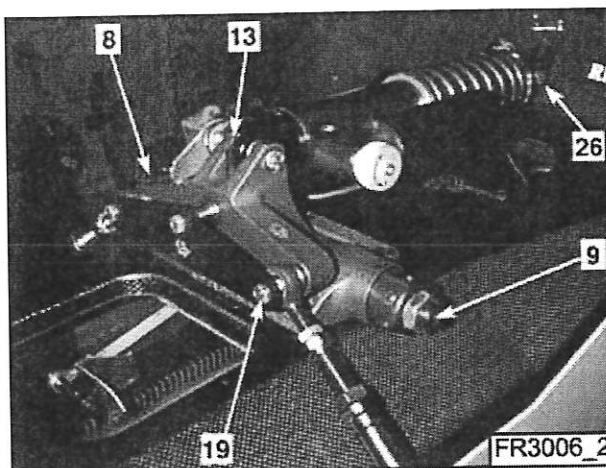
- X: represents longitudinal axis (car's direction of motion) going through centre of vehicle and having as origin the axis going through the point of contact with the ground of the wheels in the same axle assembly.
- Y: represents transversal axis (towards exterior) and having as origin the longitudinal axis going through the wheel's point of contact with the ground.
- Z: represents the vertical axis (upwards) having the transversal axis with the ground as origin.



DEFINITION OF SUSPENSION POINTS

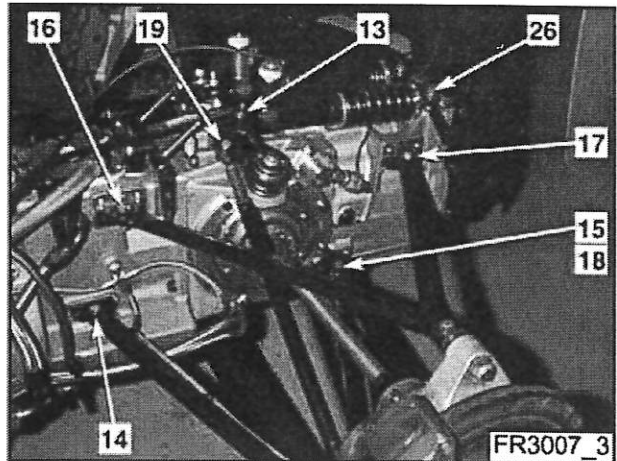
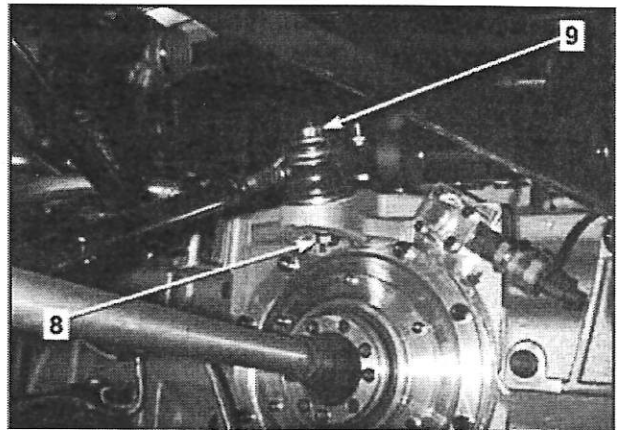
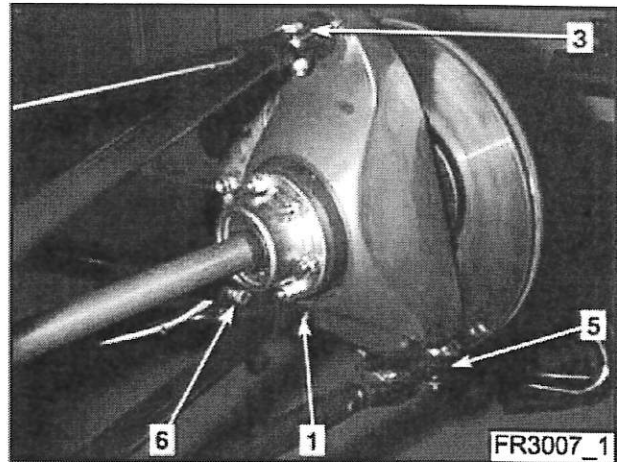
Front axle assembly

POINT	DÉFINITION
1	Bottom Suspension wishbone, wheel side
3	Top Suspension wishbone, wheel side
5	Alignment bar, wheel side
6	Push-rod, wheel side
8	Right end of anti roll axis
9	Left end of anti roll axis
13	Point of attachment of damper on ON/OFF
14	Front attachment, bottom Suspension wishbone, chassis side
15	Rear attachment, bottom Suspension wishbone, chassis side
16	Front attachment, top Suspension wishbone, chassis side
17	Rear attachment, top Suspension wishbone, chassis side
18	Alignment bar, gear rack side
19	Push-rod, ON/OFF switch side
20	Wheel centre
26	Point of attachment of damper on chassis

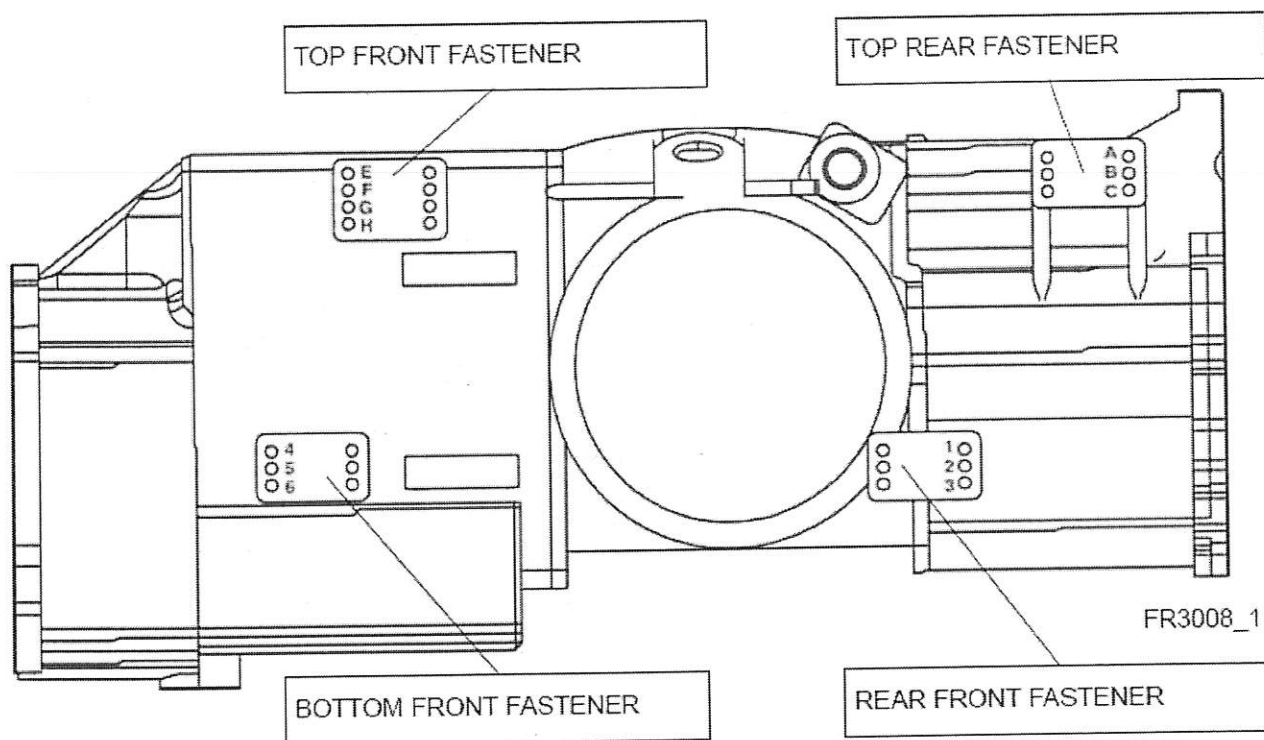


Rear axle assembly

POINT	DÉFINITION
1	Bottom Suspension wishbone, wheel side
3	Top Suspension wishbone, wheel side
5	Alignment bar, wheel side
6	Push-rod, wheel side
8	Bottom point, ON/OFF switch pivot axis
9	Top point, ON/OFF switch pivot axis
13	switch Point of attachment of damper on ON/OFF
14	Front attachment, bottom Suspension wishbone, gearbox side
15	Rear attachment, bottom Suspension wishbone, gearbox side
16	Front attachment, top Suspension wishbone, gearbox side
17	Rear attachment, top Suspension wishbone, gearbox side
18	Alignment bar, gearbox side
19	Push-rod, ON/OFF switch side
20	Wheel centre
26	Rear point of attachment of damper



LOCATION OF REAR SUSPENSION FASTENING POINTS



IMPORTANT: There should not be more than one notch of a difference between the front and rear fastening points. Examples: Front point 4 only authorizes rear points 1 and 2, Front point E only authorizes rear points A and B.

Definition of position of Suspension wishbones

Example: 3 5 C H

3	5	C	H
			Top front fastener (bottom positions)
			Top rear fastener (bottom positions)
			Bottom front fastener (middle positions)
			Bottom rear fastener (bottom positions)

ABBREVIATIONS USED IN TABLES

Wheel deflect.	:	Wheel deflection
Camb.	:	Camber
Align.	:	Alignment
CR	:	Roll centre
Spr. L.	:	Spring length
Wheel DR/SM	:	Wheel deflection in relation to spring movement
Variat. Wbase	:	Variation in Wheelbase
V. In-Tr width	:	Variation in-track width
Wheel Castor	:	Wheel castor
C.gyrat Rotat.	:	Centre of gyration/rotation
Rim/w offset	:	Rim/wheel offset
C. trail/ offset	:	Caster trail/offset

CHASSIS

Suspension adjustment Tables

30

FRONT AXLE ASSEMBLY

Position of Suspension wishbones: STANDARD

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
• Front	25mm
• Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	6.680	653.120	150.860
3	Top Suspension wishbone, wheel side	- 10.000	594.150	363.050
5	Alignment rod, wheel side	82.000	622.040	365.490
6	Push-rod, wheel side	- 0.560	594.040	175.350
8	Right end of antiroll bar	- 106.140	- 134.380	530.420
9	Left end of antiroll bar	- 106.140	134.380	530.420
13	Damper fastening point on tipper	- 95.440	0.000	598.570
14	Front fastener, bottom Suspension wishbone, chassis side	181.190	51.500	143.710
15	Rear fastener, bottom Suspension wishbone, chassis side	- 319.160	198.120	166.910
16	Front fastener, top Suspension wishbone, chassis side	103.000	188.690	315.660
17	Rear fastener, top Suspension wishbone, chassis side	- 246.600	193.660	327.260
18	Alignment bar, gear rack side	188.250	186.200	317.230
19	Push-rod, tipper side	- 45.730	77.430	550.770
20	Wheel centre	0.000	694.250	263.990
26	Damper fastening point on chassis	-416.950	0.000	574.110

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Wheel DR/SM mm	Variat Wbase mm	V. In-Tr width mm	Wheel castor degree	C.gyrat Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	-4.22	-0.16	83.59	348.51	1.308	-1.18	-2.88	4.29	14.75	22.41	17.58
-25.00	-4.34	-0.16	78.59	344.58	1.256	-0.96	-2.31	4.34	14.87	22.42	17.76
-20.00	-4.47	-0.17	73.60	340.50	1.207	-0.76	-1.78	4.37	15.00	22.43	17.93
-15.00	-4.60	-0.17	68.62	336.25	1.160	-0.55	-1.28	4.41	15.13	22.45	18.08
-10.00	-4.73	-0.18	63.65	331.83	1.115	-0.36	-0.82	4.44	15.26	22.46	18.22
-5.00	-4.86	-0.19	58.69	327.23	1.071	-0.18	-0.39	4.47	15.39	22.48	18.35
0.00	-5.00	-0.20	53.74	322.44	1.029	0.00	0.00	4.49	15.53	22.49	18.46
5.00	-5.14	-0.21	48.81	317.45	0.988	0.17	0.36	4.52	15.67	22.51	18.56
10.00	-5.29	-0.22	43.88	312.26	0.948	0.33	0.68	4.54	15.82	22.52	18.65
15.00	-5.43	-0.24	38.96	306.86	0.910	0.48	0.97	4.55	15.96	22.54	18.72
20.00	-5.58	-0.25	34.06	301.22	0.872	0.62	1.22	4.57	16.12	22.56	18.78
25.00	-5.74	-0.27	29.16	295.34	0.836	0.76	1.44	4.58	16.27	22.58	18.83
30.00	-5.90	-0.29	24.28	289.20	0.800	0.88	1.63	4.59	16.43	22.59	18.87

100% anti-dive angle	12,437°
Effective anti-dive angle	3,341°
Anti-dive	26,472%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 35CH (basic setup)

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
• Front	25mm
• Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	-3.91	0.06	91.50	342.02	1.567	-0.81	-3.21	20.68	16.20	15.84	147.61
-25.00	-4.08	0.06	85.83	338.75	1.512	-0.68	-2.57	20.59	16.38	15.87	146.93
-20.00	-4.26	0.05	80.16	335.36	1.457	-0.55	-1.97	20.49	16.56	15.91	146.25
-15.00	-4.45	0.04	74.50	331.84	1.401	-0.41	-1.42	20.40	16.74	15.95	145.58
-10.00	-4.63	0.03	68.84	328.17	1.344	-0.28	-0.90	20.30	16.92	15.98	144.92
-5.00	-4.81	0.02	63.19	324.34	1.286	-0.14	-0.43	20.21	17.11	16.01	144.25
0.00	-5.00	0.00	57.55	320.34	1.227	0.00	0.00	20.11	17.29	16.04	143.59
5.00	-5.19	-0.02	51.91	316.14	1.166	0.14	0.39	20.02	17.48	16.07	142.94
10.00	-5.38	-0.04	46.27	311.71	1.104	0.29	0.73	19.93	17.67	16.10	142.29
15.00	-5.57	-0.06	40.64	307.02	1.039	0.43	1.04	19.83	17.86	16.13	141.65
20.00	-5.76	-0.09	35.01	302.01	0.970	0.58	1.30	19.74	18.05	16.16	141.01
25.00	-5.96	-0.11	29.39	296.63	0.897	0.73	1.52	19.65	18.25	16.18	140.37
30.00	-6.15	-0.14	23.77	290.77	0.817	0.88	1.70	19.56	18.44	16.21	139.74

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	9,435°
Anti-squat	51,710%

100% anti-dive angle	7,325°
Effective anti-dive angle	-0,265°
Anti-dive	-3,602%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 35 CG

Loaded wheel/tyre assembly radius	263.99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
•Front	25mm
•Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	- 3.96	0.06	87.04	342.23	1.554	- 1.10	- 3.07	20.53	16.26	15.88	146.70
-25.00	- 4.13	0.05	81.30	338.93	1.499	- 0.92	- 2.45	20.46	16.42	15.91	146.17
-20.00	- 4.30	0.05	75.57	335.51	1.444	- 0.74	- 1.87	20.39	16.59	15.94	145.65
-15.00	- 4.48	0.04	69.85	331.95	1.388	- 0.56	- 1.34	20.32	16.77	15.96	145.13
-10.00	- 4.65	0.03	64.13	328.25	1.331	- 0.37	- 0.85	20.25	16.94	15.99	144.62
-5.00	- 4.82	0.01	58.42	324.39	1.273	- 0.19	- 0.40	20.18	17.12	16.02	144.10
0.00	- 5.00	0.00	52.71	320.34	1.214	0.00	0.00	20.11	17.29	16.04	143.59
5.00	- 5.18	- 0.02	47.01	316.09	1.154	0.19	0.36	20.04	17.47	16.07	143.09
10.00	- 5.36	- 0.03	41.32	311.62	1.091	0.38	0.68	19.98	17.65	16.09	142.59
15.00	- 5.54	- 0.05	35.63	306.87	1.026	0.57	0.95	19.91	17.83	16.11	142.09
20.00	- 5.72	- 0.08	29.95	301.80	0.957	0.77	1.19	19.84	18.01	16.13	141.59
25.00	- 5.91	- 0.10	24.27	296.34	0.884	0.96	1.38	19.77	18.20	16.15	141.10
30.00	- 6.09	- 0.12	18.60	290.39	0.803	1.16	1.53	19.70	18.38	16.17	140.61

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	8,041°
Anti-squat	43,961%

100% anti-dive angle	7,325°
Effective anti-dive angle	0,839°
Anti-dive	11,398%

CHASSIS

Suspension adjustment Tables

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 35 BG

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
•Front	25mm
•Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Wheel DR/SM mm	Variat Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	- 4.06	0.05	81.60	342.14	1.560	- 0.79	- 2.74	20.70	16.35	15.84	147.65
-25.00	- 4.21	0.05	75.92	338.85	1.505	- 0.67	- 2.17	20.60	16.50	15.87	146.96
-20.00	- 4.37	0.04	70.25	335.45	1.450	- 0.54	- 1.66	20.50	16.66	15.91	146.28
-15.00	- 4.52	0.03	64.58	331.90	1.393	- 0.41	- 1.18	20.41	16.81	15.95	145.60
-10.00	- 4.68	0.03	58.92	328.22	1.336	- 0.27	- 0.74	20.31	16.97	15.98	144.93
-5.00	- 4.84	0.01	53.26	324.37	1.278	- 0.14	- 0.35	20.21	17.13	16.01	144.26
0.00	- 5.00	0.00	47.61	320.34	1.219	0.00	0.00	20.11	17.29	16.04	143.59
5.00	- 5.16	- 0.02	41.96	316.11	1.159	0.14	0.31	20.02	17.45	16.07	142.94
10.00	- 5.33	- 0.04	36.32	311.65	1.096	0.28	0.58	19.92	17.62	16.10	142.28
15.00	- 5.49	- 0.06	30.68	306.92	1.031	0.43	0.80	19.82	17.79	16.13	141.63
20.00	- 5.66	- 0.08	25.05	301.88	0.962	0.57	0.99	19.73	17.95	16.15	140.99
25.00	- 5.83	- 0.10	19.42	296.45	0.888	0.72	1.13	19.63	18.12	16.18	140.35
30.00	- 6.00	- 0.13	13.79	290.53	0.808	0.87	1.23	19.54	18.30	16.20	139.73

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	9,127°
Anti-squat	49,991%

100% anti-dive angle	7,325°
Effective anti-dive angle	-0,020°
Anti-dive	-0,275%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 35 BF

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
•Front	25mm
•Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	-4.12	0.05	77.03	342.35	1.547	-1.09	-2.59	20.55	16.41	15.88	146.72
-25.00	-4.26	0.04	71.29	339.03	1.492	-0.91	-2.05	20.48	16.55	15.91	146.19
-20.00	-4.41	0.04	65.55	335.59	1.437	-0.73	-1.55	20.40	16.70	15.94	145.67
-15.00	-4.55	0.03	59.82	332.02	1.380	-0.55	-1.10	20.33	16.84	15.97	145.14
-10.00	-4.70	0.02	54.09	328.30	1.324	-0.37	-0.69	20.26	16.99	15.99	144.62
-5.00	-4.85	0.01	48.37	324.41	1.266	-0.19	-0.32	20.19	17.14	16.02	144.11
0.00	-5.00	0.00	42.65	320.34	1.206	0.00	0.00	20.11	17.29	16.04	143.59
5.00	-5.15	-0.01	36.94	316.07	1.146	0.19	0.28	20.04	17.44	16.07	143.09
10.00	-5.31	-0.03	31.23	311.56	1.083	0.38	0.52	19.97	17.60	16.09	142.58
15.00	-5.46	-0.05	25.53	306.77	1.018	0.57	0.72	19.90	17.75	16.11	142.08
20.00	-5.62	-0.07	19.83	301.66	0.919	0.76	0.87	19.83	17.91	16.13	141.58
25.00	-5.78	-0.09	14.14	296.16	0.875	0.96	0.98	19.75	18.07	16.15	141.08
30.00	-5.94	-0.11	8.46	290.14	0.794	1.15	1.05	19.68	18.23	16.17	140.59

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	7,817°
Anti-squat	42,722%

100% anti-dive angle	7,325°
Effective anti-dive angle	1,016°
Anti-dive	13,796%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 35 AF

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
•Front	25mm
•Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. l. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	-4.22	0.04	71.40	342.26	1.553	-0.78	-2.25	20.72	16.51	15.84	147.69
-25.00	-4.34	0.04	65.73	338.96	1.498	-0.65	-1.77	20.62	16.64	15.87	146.99
-20.00	-4.47	0.03	60.06	335.53	1.442	-0.53	-1.33	20.52	16.76	15.91	146.30
-15.00	-4.60	0.03	54.39	331.97	1.386	-0.40	-0.93	20.42	16.89	15.95	145.62
-10.00	-4.73	0.02	48.72	328.27	1.329	-0.27	-0.58	20.31	17.02	15.98	144.94
-5.00	-4.87	0.01	43.06	324.39	1.271	-0.14	-0.27	20.21	17.16	16.01	144.26
0.00	-5.00	0.00	37.41	320.34	1.211	0.00	0.00	20.11	17.29	16.04	143.59
5.00	-5.14	-0.01	31.75	316.08	1.151	0.14	0.23	20.01	17.43	16.07	142.93
10.00	-5.28	-0.03	26.10	311.59	1.088	0.28	0.41	19.91	17.57	16.10	142.27
15.00	-5.42	-0.05	20.46	306.83	1.022	0.42	0.56	19.81	17.71	16.12	141.62
20.00	-5.56	-0.07	14.81	301.74	0.954	0.57	0.66	19.71	17.85	16.15	140.96
25.00	-5.70	-0.10	9.18	296.27	0.880	0.71	0.72	19.61	18.00	16.17	140.32
30.00	-5.85	-0.12	3.54	290.28	0.799	0.86	0.74	19.51	18.14	16.19	139.68

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	8,851°
Anti-squat	48,458%

100% anti-dive angle	7,325°
Effective anti-dive angle	0,198°
Anti-dive	2,692%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 35 AE

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
•Front	25mm
•Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Wheel DR/SM mm	Variat Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	- 4.28	0.04	66.74	342.47	1.540	- 1.08	- 2.09	20.57	16.57	15.88	146.75
-25.00	- 4.40	0.03	60.99	339.14	1.485	- 0.90	- 1.64	20.49	16.69	15.91	146.22
-20.00	- 4.51	0.03	55.24	335.68	1.429	- 0.73	- 1.22	20.42	16.80	15.94	145.68
-15.00	- 4.63	0.03	49.50	332.09	1.373	- 0.55	- 0.85	20.34	16.92	15.97	145.16
-10.00	- 4.75	0.02	43.77	328.35	1.316	- 0.37	- 0.53	20.26	17.04	15.99	144.63
-5.00	- 4.88	0.01	38.04	324.44	1.258	- 0.18	- 0.24	20.19	17.17	16.02	144.11
0.00	- 5.00	0.00	32.31	320.34	1.199	0.00	0.00	20.11	17.29	16.04	143.59
5.00	- 5.13	- 0.01	26.59	316.04	1.138	0.19	0.20	20.04	17.42	16.06	143.08
10.00	- 5.25	- 0.03	20.87	311.49	1.075	0.37	0.36	19.96	17.55	16.09	142.57
15.00	- 5.39	- 0.04	15.16	306.67	1.010	0.57	0.47	19.89	17.68	16.11	142.07
20.00	- 5.52	- 0.06	9.45	301.52	0.941	0.76	0.54	19.81	17.81	16.13	141.56
25.00	- 5.65	- 0.08	3.75	295.96	0.867	0.95	0.57	19.74	17.94	16.15	141.06
30.00	- 5.79	- 0.10	- 1.95	289.89	0.785	1.15	0.56	19.66	18.08	16.16	140.57

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	7,617°
Anti-squat	41,614%

100% anti-dive angle	7,325°
Effective anti-dive angle	1,174°
Anti-dive	15,940%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 36 CG

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
•Front	25mm
•Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. l. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	- 3.96	0.06	87.04	342.23	1.554	- 1.10	- 3.07	20.53	16.26	15.88	146.70
-25.00	- 4.13	0.05	81.30	338.93	1.499	- 0.92	- 2.45	20.46	16.42	15.91	146.17
-20.00	- 4.30	0.05	75.57	335.51	1.444	- 0.74	- 1.87	20.39	16.59	15.94	145.65
-15.00	- 4.48	0.04	69.85	331.95	1.388	- 0.56	- 1.34	20.32	16.77	15.96	145.13
-10.00	- 4.65	0.03	64.13	328.25	1.331	- 0.37	- 0.85	20.25	16.94	15.99	144.62
-5.00	- 4.82	0.01	58.42	324.39	1.273	- 0.19	- 0.40	20.18	17.12	16.02	144.10
0.00	- 5.00	0.00	52.71	320.34	1.214	0.00	0.00	20.11	17.29	16.04	143.59
5.00	- 5.18	- 0.02	47.01	316.09	1.154	0.19	0.36	20.04	17.47	16.07	143.09
10.00	- 5.36	- 0.03	41.32	311.62	1.091	0.38	0.68	19.98	17.65	16.09	142.59
15.00	- 5.54	- 0.05	35.63	306.87	1.026	0.57	0.95	19.91	17.83	16.11	142.09
20.00	- 5.72	- 0.08	29.95	301.80	0.957	0.77	1.19	19.84	18.01	16.13	141.59
25.00	- 5.91	- 0.10	24.27	296.34	0.884	0.96	1.38	19.77	18.20	16.15	141.10
30.00	- 6.09	- 0.12	18.60	290.39	0.803	1.16	1.53	19.70	18.38	16.17	140.61

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	5,014°
Anti-squat	27,302%

100% anti-dive angle	7,325°
Effective anti-dive angle	0,417°
Anti-dive	5,661%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 36 CH

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
•Front	25mm
•Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. l. mm	Wheel DR/SM mm	Variat Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	- 3.96	0.06	87.04	342.23	1.554	- 1.10	- 3.07	20.53	16.26	15.88	146.70
-25.00	- 4.13	0.05	81.30	338.93	1.499	- 0.92	- 2.45	20.46	16.42	15.91	146.17
-20.00	- 4.30	0.05	75.57	335.51	1.444	- 0.74	- 1.87	20.39	16.59	15.94	145.65
-15.00	- 4.48	0.04	69.85	331.95	1.388	- 0.56	- 1.34	20.32	16.77	15.96	145.13
-10.00	- 4.65	0.03	64.13	328.25	1.331	- 0.37	- 0.85	20.25	16.94	15.99	144.62
-5.00	- 4.82	0.01	58.42	324.39	1.273	- 0.19	- 0.40	20.18	17.12	16.02	144.10
0.00	- 5.00	0.00	52.71	320.34	1.214	0.00	0.00	20.11	17.29	16.04	143.59
5.00	- 5.18	- 0.02	47.01	316.09	1.154	0.19	0.36	20.04	17.47	16.07	143.09
10.00	- 5.36	- 0.03	41.32	311.62	1.091	0.38	0.68	19.98	17.65	16.09	142.59
15.00	- 5.54	- 0.05	35.63	306.87	1.026	0.57	0.95	19.91	17.83	16.11	142.09
20.00	- 5.72	- 0.08	29.95	301.80	0.957	0.77	1.19	19.84	18.01	16.13	141.59
25.00	- 5.91	- 0.10	24.27	296.34	0.884	0.96	1.38	19.77	18.20	16.15	141.10
30.00	- 6.09	- 0.12	18.60	290.39	0.803	1.16	1.53	19.70	18.38	16.17	140.61

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	6,333°
Anti-squat	34,537%

100% anti-dive angle	7,325°
Effective anti-dive angle	-0,659°
Anti-dive	-8,945%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 36 BG

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
•Front	25mm
•Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. l. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	- 4.11	- 0.04	71.90	342.77	1.519	- 0.26	- 2.38	20.53	16.40	15.81	146.71
-25.00	- 4.26	- 0.03	66.20	339.40	1.465	- 0.22	- 1.88	20.46	16.55	15.85	146.18
-20.00	- 4.40	- 0.02	60.50	335.89	1.410	- 0.18	- 1.42	20.39	16.69	15.89	145.66
-15.00	- 4.55	- 0.01	54.81	332.25	1.354	- 0.14	- 1.00	20.32	16.84	15.93	145.14
-10.00	- 4.70	- 0.01	49.13	328.46	1.298	- 0.10	- 0.62	20.25	16.99	15.97	144.62
-5.00	- 4.85	0.00	43.45	324.49	1.241	- 0.05	- 0.29	20.18	17.14	16.01	144.11
0.00	- 5.00	0.00	37.77	320.34	1.182	0.00	0.00	20.11	17.29	16.04	143.59
5.00	- 5.15	0.00	32.10	315.98	1.122	0.05	0.25	20.05	17.45	16.08	143.09
10.00	- 5.31	0.00	26.44	311.37	1.060	0.10	0.45	19.98	17.60	16.11	142.58
15.00	- 5.47	- 0.01	20.78	306.48	0.996	0.16	0.62	19.91	17.76	16.15	142.08
20.00	- 5.63	- 0.01	15.12	301.26	0.927	0.21	0.74	19.84	17.92	16.18	141.59
25.00	- 5.79	- 0.02	9.47	295.62	0.854	0.27	0.82	19.78	18.08	16.21	141.09
30.00	- 5.95	- 0.03	3.82	289.45	0.773	0.33	0.86	19.71	18.24	16.24	140.60

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	6,117°
Anti-squat	33,347%

100% anti-dive angle	7,325°
Effective anti-dive angle	-0,482°
Anti-dive	-6,543%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 36 BF

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
•Front	25mm
•Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	- 4.17	- 0.04	67.20	342.98	1.507	- 0.56	- 2.23	20.37	16.46	15.85	145.78
-25.00	- 4.31	- 0.03	61.43	339.58	1.452	- 0.47	- 1.75	20.33	16.60	15.88	145.41
-20.00	- 4.44	- 0.02	55.66	336.05	1.397	- 0.38	- 1.31	20.29	16.73	15.92	145.04
-15.00	- 4.58	- 0.01	49.90	332.37	1.342	- 0.28	- 0.92	20.24	16.87	15.95	144.68
-10.00	- 4.72	- 0.01	44.14	328.54	1.285	- 0.19	- 0.57	20.20	17.01	15.98	144.31
-5.00	- 4.86	0.00	38.39	324.54	1.228	- 0.10	- 0.26	20.16	17.15	16.01	143.95
0.00	- 5.00	0.00	32.65	320.34	1.170	0.00	0.00	20.11	17.29	16.04	143.59
5.00	- 5.14	0.00	26.91	315.93	1.110	0.10	0.22	20.07	17.44	16.07	143.24
10.00	- 5.29	0.00	21.18	311.27	1.048	0.20	0.40	20.03	17.58	16.10	142.89
15.00	- 5.44	0.00	15.45	306.32	0.983	0.30	0.53	19.99	17.73	16.13	142.53
20.00	- 5.58	0.00	9.73	301.03	0.915	0.40	0.62	19.94	17.88	16.16	142.18
25.00	- 5.73	0.00	4.01	295.31	0.841	0.50	0.67	19.90	18.03	16.18	141.84
30.00	- 5.89	- 0.01	- 1.70	289.04	0.760	0.60	0.67	19.86	18.18	16.21	141.49

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	4,875°
Anti-squat	26,542%

100% anti-dive angle	7,325°
Effective anti-dive angle	0,530°
Anti-dive	7,196%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 36 AF

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
•Front	25mm
•Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	- 4.27	- 0.05	61.38	342.89	1.512	- 0.24	- 1.89	20.55	16.56	15.81	146.74
-25.00	- 4.39	- 0.04	55.68	339.50	1.458	- 0.21	- 1.47	20.47	16.68	15.85	146.21
-20.00	- 4.51	- 0.03	49.98	335.98	1.403	- 0.17	- 1.09	20.40	16.80	15.89	145.68
-15.00	- 4.63	- 0.02	44.29	332.32	1.347	- 0.13	- 0.75	20.33	16.92	15.93	145.15
-10.00	- 4.75	- 0.01	38.60	328.51	1.291	- 0.09	- 0.46	20.26	17.04	15.97	144.63
-5.00	- 4.87	0.00	32.91	324.52	1.233	- 0.05	- 0.21	20.18	17.17	16.01	144.11
0.00	- 5.00	0.00	27.23	320.34	1.175	0.00	0.00	20.11	17.29	16.04	143.59
5.00	- 5.13	0.00	21.55	315.95	1.115	0.05	0.17	20.04	17.42	16.08	143.08
10.00	- 5.26	0.00	15.88	311.31	1.053	0.10	0.29	19.97	17.55	16.11	142.57
15.00	- 5.39	0.00	10.21	306.38	0.988	0.15	0.37	19.90	17.68	16.14	142.07
20.00	- 5.52	0.00	4.54	301.12	0.919	0.20	0.41	19.83	17.82	16.18	141.57
25.00	- 5.66	- 0.01	- 1.12	295.43	0.846	0.26	0.41	19.76	17.95	16.21	141.07
30.00	- 5.80	- 0.02	- 6.77	289.20	0.765	0.32	0.37	19.69	18.09	16.24	140.57

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	5,923°
Anti-squat	32,284%

100% anti-dive angle	7,325°
Effective anti-dive angle	-0,324°
Anti-dive	-4,397%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 36 AE

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
•Front	25mm
•Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	-4.33	-0.05	56.57	343.11	1.499	-0.54	- 1.73	20.39	16.62	15.85	145.80
-25.00	-4.44	- 0.04	50.79	339.69	1.445	- 0.45	- 1.33	20.35	16.73	15.88	145.42
-20.00	-4.55	- 0.03	45.02	336.14	1.390	- 0.37	- 0.98	20.30	16.84	15.92	145.05
-15.00	-4.66	- 0.02	39.25	332.44	1.334	- 0.28	- 0.67	20.25	16.95	15.95	144.68
-10.00	-4.77	- 0.01	33.48	328.59	1.278	- 0.19	- 0.40	20.2 1	17.06	15.98	144.32
-5.00	-4.88	- 0.01	27.72	324.56	1.221	- 0.09	- 0.18	20.16	17.18	16.01	143.96
0.00	- 5.00	0.00	21.97	320.34	1.162	0.00	0.00	20.11	17.29	16.04	143.59
5.00	-5.12	0.00	16.22	315.90	1.102	0.10	0.14	20.07	17.41	16.07	143.24
10.00	-5.24	0.01	10.47	311.21	1.040	0.19	0.23	20.02	17.53	16.10	142.88
15.00	- 5.36	0.01	4.73	306.22	0.975	0.29	0.28	19.98	17.65	16.13	142.53
20.00	- 5.48	0.01	- 1.00	300.88	0.907	0.39	0.29	19.93	17.77	16.15	142.17
25.00	- 5.61	0.01	- 6.74	295.11	0.833	0.49	0.25	19.89	17.90	16.18	141.82
30.00	- 5.73	0.00	-12.46	288.78	0.751	0.59	0.18	19.84	18.02	16.21	141.48

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	4,751°
Anti-squat	25,861%

100% anti-dive angle	7,325°
Effective anti-dive angle	0,631°
Anti-dive	8,571%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 25 CG

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
•Front	25mm
•Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. l. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	- 3.87	0.21	99.74	341.95	1.570	- 0.89	- 3.57	20.34	16.17	16.05	145.38
-25.00	- 4.06	0.17	93.95	338.68	1.516	- 0.75	- 2.87	20.30	16.35	16.05	145.08
-20.00	- 4.24	0.14	88.17	335.30	1.461	- 0.60	- 2.21	20.27	16.54	16.05	144.78
-15.00	- 4.43	0.11	82.40	331.79	1.406	- 0.45	- 1.59	20.23	16.72	16.05	144.48
-10.00	- 4.62	0.07	76.63	328.13	1.349	- 0.30	- 1.02	20.19	16.91	16.05	144.18
-5.00	- 4.81	0.04	70.88	324.33	1.292	- 0.15	- 0.49	20.15	17.10	16.04	143.89
0.00	- 5.00	0.00	65.13	320.34	1.234	0.00	0.00	20.11	17.29	16.04	143.59
5.00	- 5.19	- 0.04	59.38	316.16	1.174	0.15	0.44	20.08	17.48	16.04	143.30
10.00	- 5.39	- 0.08	53.65	311.77	1.112	0.31	0.84	20.04	17.68	16.04	143.01
15.00	- 5.58	- 0.12	47.92	307.11	1.048	0.46	1.20	20.00	17.87	16.03	142.72
20.00	- 5.78	- 0.16	42.20	302.16	0.980	0.61	1.51	19.97	18.07	16.03	142.44
25.00	- 5.97	- 0.20	36.49	296.83	0.908	0.77	1.78	19.93	18.27	16.02	142.15
30.00	- 6.17	- 0.24	30.78	291.05	0.829	0.93	2.01	19.89	18.46	16.02	141.87

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	5,341°
Anti-squat	29,092%

100% anti-dive angle	7,325°
Effective anti-dive angle	0,462°
Anti-dive	6,278%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 25 CH

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
•Front	25mm
•Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. l. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	- 3.82	0.21	104.24	341.75	1.584	- 0.60	- 3.72	20.49	16.11	16.01	146.30
-25.00	- 4.01	0.17	98.52	338.51	1.529	- 0.51	- 2.99	20.43	16.30	16.02	145.84
-20.00	- 4.21	0.14	92.80	335.16	1.474	- 0.41	- 2.30	20.36	16.50	16.02	145.39
-15.00	- 4.40	0.11	87.09	331.68	1.419	- 0.31	- 1.66	20.30	16.69	16.03	144.94
-10.00	- 4.60	0.07	81.38	328.06	1.362	- 0.21	- 1.07	20.24	16.89	16.03	144.49
-5.00	- 4.80	0.04	75.69	324.28	1.305	- 0.10	- 0.51	20.18	17.09	16.04	144.04
0.00	- 5.00	0.00	69.99	320.34	1.247	0.00	0.00	20.11	17.29	16.04	143.59
5.00	- 5.20	- 0.04	64.31	316.21	1.187	0.11	0.47	20.05	17.49	16.05	143.15
10.00	- 5.41	- 0.08	58.63	311.86	1.125	0.21	0.89	19.99	17.70	16.05	142.72
15.00	- 5.61	- 0.12	52.96	307.26	1.061	0.32	1.28	19.93	17.90	16.05	142.28
20.00	- 5.82	- 0.17	47.30	302.37	0.993	0.43	1.62	19.87	18.11	16.05	141.85
25.00	- 6.02	- 0.21	41.64	297.12	0.921	0.54	1.92	19.81	18.32	16.05	141.42
30.00	- 6.23	- 0.26	35.99	291.42	0.843	0.66	2.17	19.75	18.52	16.05	140.99

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	6,836°
Anti-squat	37,306%

100% anti-dive angle	7,325°
Effective anti-dive angle	-0,595°
Anti-dive	-8,083%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 25 BG

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
•Front	25mm
•Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. l. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.g.yra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	-3.97	0.19	94.30	341.86	1.576	-0.59	-3.24	20.51	16.26	16.01	146.33
-25.00	-4.14	0.17	88.57	338.61	1.522	-0.49	-2.60	20.44	16.43	16.02	145.87
-20.00	-4.31	0.14	82.84	335.24	1.467	-0.40	-1.99	20.38	16.60	16.02	145.41
-15.00	-4.48	0.10	77.12	331.74	1.411	-0.30	-1.43	20.31	16.77	16.03	144.95
-10.00	-4.65	0.07	71.41	328.10	1.355	-0.20	-0.91	20.24	16.94	16.03	144.49
-5.00	-4.82	0.04	65.70	324.31	1.297	-0.10	-0.43	20.18	17.12	16.04	144.04
0.00	-5.00	0.00	60.00	320.34	1.239	0.00	0.00	20.11	17.29	16.04	143.59
5.00	-5.18	-0.04	54.31	316.18	1.179	0.10	0.39	20.05	17.47	16.04	143.15
10.00	-5.36	-0.08	48.62	311.80	1.117	0.21	0.74	19.98	17.65	16.05	142.71
15.00	-5.54	-0.12	42.94	307.17	1.053	0.32	1.04	19.92	17.83	16.05	142.27
20.00	-5.72	-0.16	37.26	302.24	0.985	0.42	1.31	19.85	18.01	16.05	141.83
25.00	-5.90	-0.21	31.59	296.94	0.913	0.53	1.53	19.79	18.19	16.05	141.40
30.00	-6.09	-0.25	25.93	291.19	0.834	0.64	1.70	19.73	18.38	16.05	140.97

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	6,577°
Anti-squat	35,880%

100% anti-dive angle	7,325°
Effective anti-dive angle	0,412°
Anti-dive	-5,589%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 25 BF

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
•Front	25mm
•Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. l. mm	Wheel DR/SM mm	Variat Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	- 4.03	0.20	89.70	342.07	1.563	-0.88	- 3.10	20.36	16.32	16.05	145.40
-25.00	- 4.19	0.17	83.90	338.79	1.509	- 0.74	- 2.47	20.32	16.48	16.05	145.09
-20.00	- 4.35	0.13	78.11	335.39	1.454	- 0.59	- 1.89	20.28	16.64	16.05	144.79
-15.00	-4.51	0.10	72.32	331.86	1.398	- 0.45	- 1.35	20.24	16.80	16.05	144.49
-10.00	- 4.67	0.07	66.54	328.18	1.342	- 0.30	- 0.86	20.19	16.96	16.05	144.19
-5.00	- 4.83	0.04	60.77	324.35	1.285	- 0.15	- 0.41	20.15	17.13	16.05	143.89
0.00	- 5.00	0.00	55.01	320.34	1.226	0.00	0.00	20.11	17.29	16.04	143.59
5.00	-5.17	-0.04	49.25	316.14	1.166	0.15	0.36	20.07	17.46	16.04	143.30
10.00	-5.34	-0.07	43.50	311.71	1.104	0.30	0.68	20.03	17.63	16.03	143.01
15.00	- 5.51	- 0.11	37.75	307.02	1.040	0.46	0.96	19.99	17.80	16.03	142.72
20.00	- 5.68	- 0.15	32.02	302.02	0.972	0.61	1.19	19.95	17.97	16.02	142.43
25.00	- 5.85	- 0.19	26.29	296.65	0.899	0.76	1.39	19.91	18.14	16.02	142.14
30.00	- 6.02	- 0.23	20.56	290.81	0.820	0.92	1.53	19.88	18.32	16.01	141.86

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	5,175°
Anti-squat	28,184%

100% anti-dive angle	7,325°
Effective anti-dive angle	0,579°
Anti-dive	7,866%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 25 AF

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
• Front	25mm
• Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat degree	Rim/w offset mm	C. trail /offset mm
-30.00	- 4.13	0.18	84.07	341.98	1.569	- 0.57	- 2.76	20.53	16.42	16.01	146.36
-25.00	- 4.27	0.16	78.33	338.71	1.514	- 0.48	- 2.19	20.46	16.56	16.02	145.89
-20.00	- 4.41	0.13	72.60	335.33	1.459	- 0.39	- 1.67	20.39	16.70	16.03	145.43
-15.00	- 4.56	0.10	66.88	331.81	1.404	- 0.29	- 1.19	20.32	16.85	16.03	144.96
-10.00	- 4.70	0.07	61.16	328.15	1.347	- 0.20	- 0.75	20.25	16.99	16.04	144.50
-5.00	- 4.85	0.03	55.44	324.33	1.290	- 0.10	- 0.35	20.18	17.14	16.04	144.05
0.00	- 5.00	0.00	49.73	320.34	1.231	0.00	0.00	20.11	17.29	16.04	143.59
5.00	- 5.15	- 0.04	44.03	316.15	1.171	0.10	0.31	20.04	17.44	16.04	143.15
10.00	- 5.30	- 0.07	38.33	311.74	1.109	0.20	0.58	19.98	17.60	16.04	142.70
15.00	- 5.46	- 0.11	32.64	307.07	1.044	0.31	0.80	19.91	17.75	16.04	142.25
20.00	- 5.62	- 0.16	26.95	302.10	0.976	0.42	0.99	19.84	17.91	16.04	141.81
25.00	- 5.77	- 0.20	21.27	296.76	0.904	0.52	1.13	19.77	18.07	16.04	141.38
30.00	- 5.93	- 0.24	15.60	290.95	0.825	0.63	1.22	19.71	18.23	16.04	140.94

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	6,347°
Anti-squat	34,614%

100% anti-dive angle	7,325°
Effective anti-dive angle	-0,249°
Anti-dive	-3,376%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 25 AE

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
• Front	25mm
• Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	-4.19	0.19	79.37	342.19	1.556	-0.87	-2.61	20.38	16.48	16.06	145.42
-25.00	-4.32	0.16	73.56	338.89	1.501	-0.73	-2.07	20.33	16.61	16.06	145.11
-20.00	-4.45	0.13	67.76	335.48	1.446	-0.58	-1.57	20.29	16.74	16.05	144.80
-15.00	-4.59	0.10	61.96	331.93	1.390	-0.44	-1.11	20.24	16.88	16.05	144.50
-10.00	-4.72	0.07	56.17	328.23	1.334	-0.29	-0.70	20.20	17.01	16.05	144.19
-5.00	-4.86	0.03	50.38	324.38	1.277	-0.15	-0.33	20.16	17.15	16.05	143.89
0.00	-5.00	0.00	44.60	320.34	1.218	0.00	0.00	20.11	17.29	16.04	143.59
5.00	-5.14	-0.03	38.83	316.11	1.158	0.15	0.28	20.07	17.43	16.04	143.30
10.00	-5.28	-0.07	33.07	311.65	1.096	0.30	0.52	20.03	17.58	16.03	143.00
15.00	-5.43	-0.11	27.31	306.92	1.031	0.45	0.72	19.98	17.72	16.03	142.71
20.00	-5.57	-0.15	21.55	301.88	0.963	0.60	0.87	19.94	17.87	16.02	142.42
25.00	-5.72	-0.19	15.81	296.47	0.891	0.76	0.98	19.90	18.01	16.01	142.13
30.00	-5.87	-0.23	10.07	290.56	0.811	0.91	1.05	19.86	18.16	16.01	141.84

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	5,028°
Anti-squat	27,375%

100% anti-dive angle	7,325°
Effective anti-dive angle	0,683°
Anti-dive	9,280%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 26 AE

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
•Front	25mm
•Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyrotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	- 4.24	0.10	69.37	342.83	1.514	- 0.33	- 2.25	20.20	16.53	16.03	144.44
-25.00	- 4.36	0.08	63.52	339.45	1.460	- 0.27	- 1.76	20.18	16.65	16.03	144.30
-20.00	- 4.49	0.07	57.67	335.93	1.406	- 0.22	- 1.32	20.17	16.78	16.03	144.16
-15.00	- 4.61	0.05	51.83	332.28	1.351	- 0.17	- 0.93	20.15	16.90	16.04	144.01
-10.00	- 4.74	0.03	45.99	328.47	1.295	- 0.11	- 0.57	20.14	17.03	16.04	143.87
-5.00	- 4.87	0.02	40.17	324.50	1.238	- 0.06	- 0.26	20.13	17.16	16.04	143.73
0.00	- 5.00	0.00	34.35	320.34	1.180	0.00	0.00	20.11	17.29	16.04	143.60
5.00	- 5.13	- 0.02	28.53	315.97	1.121	0.06	0.22	20.10	17.42	16.04	143.46
10.00	- 5.27	- 0.04	22.72	311.36	1.060	0.11	0.40	20.09	17.56	16.04	143.32
15.00	- 5.40	- 0.06	16.92	306.47	0.996	0.17	0.53	20.08	17.69	16.05	143.18
20.00	- 5.54	- 0.08	11.13	301.25	0.928	0.23	0.62	20.06	17.83	16.05	143.05
25.00	- 5.68	- 0.10	5.34	295.62	0.856	0.29	0.66	20.05	17.97	16.05	142.93
30.00	- 5.82	- 0.12	- 0.44	289.46	0.776	0.35	0.66	20.04	18.11	16.05	142.78

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	2,070°
Anti-squat	11,249%

100% anti-dive angle	7,325°
Effective anti-dive angle	0,128°
Anti-dive	1,736%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 26 AF

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
•Front	25mm
•Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. l. mm	Wheel DR/SM mm	Variat Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	- 4.18	0.10	74.22	342.62	1.527	- 0.03	- 2.40	20.35	16.47	15.98	145.40
-25.00	-4.31	0.08	68.44	339.26	1.473	-0.03	- 1.89	20.31	16.60	15.99	145.09
-20.00	-4.45	0.07	62.66	335.78	1.418	-0.03	- 1.43	20.27	16.74	16.00	144.79
-15.00	-4.58	0.05	56.90	332.16	1.363	-0.02	- 1.01	20.23	16.87	16.01	144.49
-10.00	- 4.72	0.04	51.14	328.39	1.308	- 0.02	- 0.63	20.19	17.01	16.02	144.19
-5.00	- 4.86	0.02	45.39	324.46	1.251	- 0.01	- 0.29	20.15	17.15	16.03	143.89
0.00	- 5.00	0.00	39.64	320.34	1.193	0.00	0.00	20.11	17.29	16.04	143.59
5.00	- 5.14	- 0.02	33.90	316.02	1.134	0.01	0.25	20.07	17.43	16.05	143.30
10.00	- 5.29	- 0.04	28.17	311.46	1.072	0.02	0.45	20.04	17.58	16.06	143.01
15.00	- 5.43	- 0.06	22.44	306.63	1.008	0.03	0.62	20.00	17.72	16.06	142.72
20.00	- 5.58	- 0.09	16.72	301.47	0.941	0.05	0.74	19.96	17.87	16.07	142.43
25.00	- 5.73	- 0.11	11.00	295.92	0.869	0.06	0.81	19.92	18.02	16.08	142.15
30.00	- 5.88	- 0.14	5.29	289.87	0.789	0.08	0.85	19.89	18.17	16.08	141.86

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	3,317°
Anti-squat	18,033%

100% anti-dive angle	7,325°
Effective anti-dive angle	-0,784°
Anti-dive	-10,643%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 26 BF

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
• Front	25mm
• Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. l. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat degree	Rim/w offset mm	C. trail /offset mm
-30.00	- 4.08	0.11	80.03	342.71	1.521	- 0.34	- 2.74	20.18	16.37	16.02	144.43
-25.00	- 4.23	0.09	74.19	339.34	1.467	- 0.29	- 2.17	20.17	16.52	16.03	144.29
-20.00	- 4.38	0.07	68.35	335.84	1.413	- 0.23	- 1.65	20.16	16.67	16.03	144.15
-15.00	- 4.53	0.06	62.53	332.21	1.358	- 0.17	- 1.17	20.14	16.83	16.03	144.03
-10.00	- 4.69	0.04	56.71	328.42	1.303	- 0.12	- 0.74	20.13	16.98	16.04	143.83
-5.00	- 4.84	0.02	50.90	324.48	1.246	- 0.06	- 0.35	20.12	17.13	16.04	143.73
0.00	- 5.00	0.00	45.09	320.34	1.188	0.00	0.00	20.11	17.29	16.04	143.60
5.00	- 5.16	- 0.02	39.29	316.00	1.129	0.06	0.30	20.10	17.45	16.04	143.46
10.00	- 5.32	- 0.04	33.50	311.42	1.068	0.12	0.56	20.09	17.61	16.05	143.33
15.00	- 5.48	- 0.06	27.72	306.57	1.004	0.18	0.77	20.08	17.77	16.05	143.??
20.00	- 5.64	- 0.08	21.95	301.39	0.936	0.24	0.95	20.07	17.93	16.05	143.05
25.00	- 5.80	- 0.11	16.18	295.81	0.864	0.30	1.07	20.07	18.10	16.05	9.241?
30.00	- 5.97	- 0.13	10.42	289.72	0.785	0.36	1.16	20.06	18.26	16.05	7.241?

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	2,134°
Anti-squat	11,598%

100% anti-dive angle	7,325°
Effective anti-dive angle	0,081°
Anti-dive	1,100%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 26 BG

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
•Front	25mm
•Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	-4.02	0.11	84.76	342.50	1.534	-0.05	-2.89	20.33	16.31	15.98	145.38
-25.00	-4.18	0.09	78.99	339.16	1.480	-0.05	-2.30	20.29	16.47	15.99	145.07
-20.00	-4.34	0.08	73.23	335.69	1.426	-0.04	-1.75	20.26	16.63	16.00	144.77
-15.00	-4.50	0.06	67.47	332.09	1.371	-0.03	-1.25	20.22	16.80	16.01	144.48
-10.00	-4.67	0.04	61.73	328.34	1.315	-0.02	-0.79	20.18	16.96	16.02	144.18
-5.00	-4.83	0.02	55.98	324.43	1.258	-0.01	-0.37	20.15	17.12	16.03	143.89
0.00	-5.00	0.00	50.25	320.34	1.201	0.00	0.00	20.11	17.29	16.04	143.59
5.00	-5.17	-0.02	44.52	316.05	1.141	0.01	0.33	20.08	17.46	16.05	143.30
10.00	-5.34	-0.04	38.80	311.52	1.080	0.03	0.62	20.04	17.63	16.06	143.02
15.00	-5.51	-0.07	33.08	306.73	1.016	0.04	0.86	20.01	17.80	16.07	142.73
20.00	-5.68	-0.09	27.38	301.61	0.949	0.06	1.06	19.97	17.97	16.07	142.45
25.00	-5.86	-0.12	21.67	296.11	0.877	0.08	1.22	19.94	18.15	16.08	142.16
30.00	-6.03	-0.15	15.98	290.12	0.798	0.09	1.33	19.91	18.32	16.09	141.88

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	3,456°
Anti-squat	18,790%

100% anti-dive angle	7,325°
Effective anti-dive angle	-0,886°
Anti-dive	-12,025%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 26 CH

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
•Front	25mm
•Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. l. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	-3.87	0.12	95.01	342.38	1.541	-0.07	-3.36	20.31	16.16	15.98	145.35
-25.00	-4.05	0.10	89.25	339.05	1.487	-0.06	-2.69	20.28	16.34	15.99	145.06
-20.00	-4.24	0.08	83.50	335.60	1.433	-0.05	-2.07	20.25	16.53	16.00	144.76
-15.00	-4.43	0.06	77.76	332.02	1.378	-0.04	-1.48	20.21	16.72	16.01	144.43
-10.00	-4.62	0.04	72.02	328.30	1.322	-0.03	-0.95	20.18	16.91	16.02	144.13
-5.00	-4.81	0.02	66.29	324.41	1.266	-0.01	-0.45	20.15	17.10	16.03	143.88
0.00	-5.00	0.00	60.57	320.34	1.208	0.00	0.00	20.11	17.29	16.04	143.59
5.00	-5.19	-0.02	54.85	316.08	1.149	0.02	0.41	20.08	17.48	16.05	143.33
10.00	-5.39	-0.05	49.14	311.58	1.088	0.03	0.77	20.05	17.68	16.06	143.03
15.00	-5.58	-0.07	43.44	306.82	1.024	0.05	1.10	20.02	17.88	16.07	7.241?
20.00	-5.78	-0.10	37.75	301.75	0.957	0.07	1.37	19.99	18.07	16.08	4.241?
25.00	-5.98	-0.13	32.06	296.30	0.885	0.09	1.61	19.96	18.27	16.08	1.241?
30.00	-6.18	-0.16	26.38	290.37	0.807	0.11	1.80	19.93	18.47	16.09	9.141?

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	3,612°
Anti-squat	19,642%

100% anti-dive angle	7,325°
Effective anti-dive angle	-1,000°
Anti-dive	-13,579%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 26 CG

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
•Front	25mm
•Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. l. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	- 3.93	0.12	90.38	342.58	1.529	- 0.36	- 3.22	20.16	16.22	16.02	144.42
-25.00	- 4.10	0.10	84.55	339.23	1.475	- 0.30	- 2.57	20.15	16.39	16.03	144.28
-20.00	-4.28	0.08	78.74	335.75	1.420	-0.24	- 1.97	20.15	16.57	16.03	144.14
-15.00	-4.46	0.06	72.93	332.14	1.366	- 0.18	- 1.41	20.14	16.75	16.03	144.01
-10.00	-4.64	0.04	67.12	328.38	1.310	-0.12	-0.90	20.13	16.93	16.04	143.87
-5.00	- 4.82	0.02	61.33	324.45	1.253	-0.06	- 0.43	20.12	17.11	16.04	143.73
0.00	- 5.00	0.00	55.54	320.34	1.196	0.00	0.00	20.11	17.29	16.04	143.60
5.00	- 5.18	- 0.02	49.77	316.03	1.136	0.06	0.38	20.11	17.47	16.04	143.46
10.00	- 5.37	- 0.04	43.99	311.48	1.075	0.12	0.72	20.10	17.66	16.05	143.33
15.00	- 5.55	- 0.07	38.23	306.67	1.012	0.19	1.01	20.09	17.85	16.05	143.??
20.00	- 5.74	- 0.09	32.47	301.53	0.944	0.25	1.26	20.09	18.03	16.05	143.06
25.00	- 5.93	- 0.11	26.73	296.00	0.872	0.31	1.47	20.08	18.22	16.06	142.93
30.00	- 6.12	- 0.14	20.98	289.97	0.793	0.38	1.63	20.07	18.41	16.06	142.??

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	2,206°
Anti-squat	11,988%

100% anti-dive angle	7,325°
Effective anti-dive angle	0,029°
Anti-dive	0,388%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 24 CG

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
•Front	25mm
•Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	- 3.82	0.29	108.97	341.32	1.614	- 1.42	- 3.93	20.52	16.11	16.08	146.33
-25.00	- 4.02	0.25	103.21	338.14	1.559	- 1.19	- 3.16	20.45	16.31	16.08	145.87
-20.00	- 4.21	0.20	97.45	334.86	1.504	- 0.95	- 2.44	20.38	16.50	16.07	145.41
-15.00	- 4.41	0.15	91.71	331.44	1.448	- 0.72	- 1.77	20.32	16.70	16.06	144.95
-10.00	- 4.60	0.10	85.96	327.90	1.391	- 0.48	- 1.13	20.25	16.89	16.06	144.49
-5.00	- 4.80	0.05	80.23	324.20	1.333	- 0.24	- 0.55	20.18	17.09	16.05	144.04
0.00	- 5.00	0.00	74.50	320.34	1.274	0.00	0.00	20.11	17.29	16.04	143.59
5.00	- 5.20	- 0.05	68.78	316.30	1.213	0.24	0.50	20.05	17.49	16.03	143.15
10.00	- 5.40	- 0.11	63.07	312.04	1.150	0.48	0.96	19.98	17.69	16.02	142.71
15.00	- 5.61	- 0.17	57.36	307.55	1.086	0.73	1.38	19.91	17.90	16.01	142.27
20.00	- 5.81	- 0.23	51.66	302.77	1.017	0.97	1.75	19.85	18.10	16.00	141.83
25.00	- 6.02	- 0.29	45.97	297.64	0.945	1.22	2.08	19.78	18.31	15.99	141.40
30.00	- 6.23	- 0.35	40.28	292.10	0.866	1.47	2.37	19.72	18.52	15.98	140.96

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	8,558°
Anti-squat	46,830%

100% anti-dive angle	7,325°
Effective anti-dive angle	0,912°
Anti-dive	12,386%

CHASSIS

Suspension adjustment Tables

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 24 CH

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	- 5°
- Camber	- 0.2°
- Alignment	
- body height (height between pads and ground):	25mm
• Front	35mm
• Rear	

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	-69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. l. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	-3.77		113.34	341.13	1.628	-1.13	-4.06	20.67	16.06	16.04	147.24
-25.00	-3.97	0.29	107.64	337.98	1.573	-0.94	-3.28	20.57	16.26	16.04	146.62
-20.00	-4.17	0.25	101.94	334.72	1.517	-0.76	-2.54	20.48	16.46	16.04	145.40
-15.00	-4.38	0.20	96.25	331.34	1.461	-0.57	-1.84	20.39	16.67	16.04	144.79
-10.00	-4.58	0.15	90.57	327.82	1.404	-0.38	-1.18	20.30	16.88	16.04	144.19
-5.00	-4.79	0.10	84.89	324.16	1.346	-0.19	-0.57	20.20	17.08	16.04	143.59
0.00	-5.00	0.05	79.22	320.34	1.287	0.00	0.00	20.11	17.29	16.04	143.00
5.00	-5.21	0.00	73.55	316.34	1.226	0.19	0.53	20.02	17.50	16.04	142.41
10.00	-5.42	-0.06	67.89	312.13	1.164	0.39	1.01	19.93	17.71	16.04	141.83
15.00	-5.64	-0.11	62.24	307.69	1.099	0.59	1.46	19.84	17.93	16.03	141.25
20.00	-5.85	-0.17	56.59	302.97	1.031	0.79	1.86	19.75	18.14	16.03	140.67
25.00	-6.07	-0.23	50.95	297.92	0.958	0.99	2.21	19.66	18.36	16.02	140.09
30.00	-6.28	-0.30	45.32	292.45	0.880	1.19	2.53	19.57	18.58	16.01	139.51

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	10,139°
Anti-squat	55,646%

100% anti-dive angle	7,325°
Effective anti-dive angle	-0,175°
Anti-dive	-2,378%

CHASSIS

Suspension adjustment Tables

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 24 BG

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
• Front	25mm
• Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	-69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	-3.92	0.28	103.70	341.24	1.621	-1.11	-3.59	20.69	16.21	16.04	147.27
-25.00	-4.10	0.24	97.99	338.07	1.565	-0.93	-2.89	20.59	16.39	16.04	146.65
-20.00	-4.27	0.20	92.29	334.80	1.510	-0.75	-2.23	20.49	16.57	16.04	146.03
-15.00	-4.45	0.15	86.60	331.40	1.453	-0.57	-1.60	20.40	16.74	16.05	145.41
-10.00	-4.63	0.10	80.90	327.87	1.396	-0.38	-1.03	20.30	16.93	16.05	144.80
-5.00	-4.82	0.05	75.22	324.19	1.338	-0.19	-0.49	20.21	17.11	16.04	144.20
0.00	-5.00	0.00	69.54	320.34	1.279	0.00	0.00	20.11	17.29	16.04	143.59
5.00	-5.19	-0.05	63.87	316.31	1.218	0.19	0.45	20.02	17.48	16.04	143.00
10.00	-5.37	-0.11	58.20	312.08	1.155	0.39	0.86	19.92	17.66	16.03	142.40
15.00	-5.56	-0.17	52.54	307.60	1.090	0.58	1.22	19.83	17.85	16.03	141.81
20.00	-5.75	-0.23	46.88	302.84	1.022	0.78	1.55	19.74	18.04	16.02	141.23
25.00	-5.94	-0.29	41.23	297.75	0.950	0.98	1.83	19.64	18.24	16.01	140.65
30.00	-6.14	-0.36	35.59	292.23	0.871	1.18	2.07	19.55	18.43	16.01	140.07

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	9,770°
Anti-squat	53,582%

100% anti-dive angle	7,325°
Effective anti-dive angle	0,079°
Anti-dive	1,078%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 24 BF

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
• Front	25mm
• Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	-3.98	0.28	99.24	341.43	1.607	-1.41	-3.45	20.54	16.27	16.08	146.35
-25.00	-4.14	0.24	93.47	338.24	1.552	-1.18	-2.77	20.47	16.44	16.08	145.88
-20.00	-4.31	0.19	87.70	334.94	1.496	-0.95	-2.13	20.40	16.60	16.07	145.42
-15.00	-4.48	0.15	81.94	331.51	1.440	-0.71	-1.53	20.32	16.77	16.07	144.96
-10.00	-4.65	0.10	76.19	327.94	1.383	-0.48	-0.98	20.25	16.94	16.06	144.50
-5.00	-4.83	0.05	70.44	324.23	1.325	-0.24	-0.47	20.18	17.12	16.05	144.05
0.00	-5.00	0.00	64.70	320.34	1.266	0.00	0.00	20.11	17.29	16.04	143.59
5.00	-5.18	-0.05	58.97	316.27	1.205	0.24	0.42	20.04	17.47	16.03	143.15
10.00	-5.35	-0.11	53.24	311.99	1.142	0.48	0.81	19.97	17.64	16.02	142.70
15.00	-5.53	-0.16	47.52	307.46	1.077	0.73	1.14	19.90	17.82	16.01	142.26
20.00	-5.71	-0.22	41.81	302.64	1.009	0.97	1.44	19.84	18.00	16.00	141.82
25.00	-5.89	-0.28	36.10	297.47	0.936	1.22	1.69	19.77	18.19	15.98	141.38
30.00	-6.08	-0.34	30.40	291.87	0.857	1.46	1.90	19.70	18.37	15.97	140.95

Wheel base (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	8,291°
Anti-squat	45,349%

100% anti-dive angle	7,325°
Effective anti-dive angle	1,095°
Anti-dive	14,867%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 24 AF

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
•Front	25mm
•Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	- 4.08	0.27	93.80	341.35	1.613	- 1.10	- 3.11	20.71	16.37	16.04	147.31
-25.00	- 4.23	0.23	88.08	338.17	1.558	- 0.92	- 2.49	20.61	16.52	16.04	146.68
-20.00	- 4.38	0.19	82.38	334.88	1.502	- 0.74	- 1.91	20.51	16.67	16.05	146.05
-15.00	- 4.53	0.14	76.67	331.47	1.446	- 0.56	- 1.37	20.41	16.82	16.05	145.43
-10.00	- 4.69	0.10	70.98	327.91	1.388	- 0.38	- 0.87	20.31	16.98	16.05	144.81
-5.00	- 4.84	0.05	65.29	324.21	1.330	- 0.19	- 0.41	20.21	17.13	16.04	144.20
0.00	- 5.00	0.00	59.60	320.34	1.271	0.00	0.00	20.11	17.29	16.04	143.59
5.00	- 5.16	- 0.05	53.92	316.29	1.210	0.19	0.37	20.01	17.45	16.04	142.99
10.00	- 5.32	- 0.11	48.24	312.02	1.147	0.38	0.70	19.92	17.61	16.03	142.39
15.00	- 5.49	- 0.16	42.57	307.51	1.082	0.58	0.99	19.82	17.78	16.03	141.80
20.00	- 5.65	- 0.22	36.91	302.71	1.014	0.78	1.23	19.72	17.94	16.02	141.21
25.00	- 5.82	- 0.28	31.25	297.57	0.941	0.98	1.43	19.63	18.11	16.01	140.62
30.00	- 5.99	- 0.35	25.60	292.00	0.862	1.18	1.59	19.53	18.28	16.00	140.04

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	9,443°
Anti-squat	51,756%

100% anti-dive angle	7,325°
Effective anti-dive angle	0,305°
Anti-dive	4,137%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 24 AE

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
• Front	25mm
• Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Wheel DR/SM mm	Variat Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	-4.14	0.27	89.24	341.55	1.599	- 1.40	-2.97	20.56	16.43	16.08	146.37
-25.00	-4.28	0.23	83.45	338.35	1.544	- 1.17	-2.37	20.48	16.57	16.08	145.90
-20.00	-4.42	0.19	77.68	335.03	1.488	- 0.94	- 1.81	20.41	16.71	16.07	145.43
-15.00	-4.56	0.14	71.91	331.58	1.432	- 0.71	- 1.29	20.33	16.85	16.07	144.97
-10.00	-4.71	0.10	66.14	327.99	1.375	- 0.47	- 0.82	20.26	17.00	16.06	144.51
-5.00	-4.85	0.05	60.39	324.25	1.317	- 0.24	- 0.39	20.19	17.14	16.05	144.05
0.00	- 5.00	0.00	54.63	320.34	1.257	0.00	0.00	20.11	17.29	16.04	143.59
5.00	- 5.15	- 0.05	48.89	316.24	1.197	0.24	0.34	20.04	17.44	16.03	143.14
10.00	-5.30	-0.10	43.15	311.93	1.134	0.48	0.64	19.97	17.59	16.02	142.69
15.00	- 5.45	- 0.16	37.42	307.36	1.069	0.72	0.90	19.89	17.75	16.01	142.25
20.00	- 5.61	- 0.21	31.69	302.50	1.000	0.97	1.12	19.82	17.90	15.99	141.81
25.00	- 5.77	- 0.27	25.97	297.29	0.927	1.21	1.29	19.75	18.06	15.98	141.37
30.00	- 5.92	- 0.33	20.25	291.63	0.848	1.46	1.42	19.68	18.22	15.96	140.93

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	8,054°
Anti-squat	44,032%

100% anti-dive angle	7,325°
Effective anti-dive angle	1,257°
Anti-dive	17,072%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 14 AE

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
•Front	25mm
• Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	- 4.04	0.42	101.90	341.26	1.618	- 1.20	- 3.50	20.36	16.33	16.26	145.04
-25.00	- 4.20	0.36	96.05	338.09	1.563	- 1.00	- 2.80	20.32	16.49	16.23	144.79
-20.00	- 4.36	0.29	90.22	334.81	1.508	- 0.80	- 2.15	20.28	16.65	16.19	144.55
-15.00	- 4.52	0.22	84.40	331.41	1.452	- 0.60	- 1.55	20.24	16.81	16.15	144.33
-10.00	- 4.68	0.14	78.58	327.87	1.396	- 0.40	- 0.99	20.20	16.97	16.12	144.07
-5.00	- 4.84	0.07	72.77	324.19	1.338	- 0.20	- 0.47	20.15	17.13	16.08	143.83
0.00	- 5.00	0.00	66.97	320.34	1.279	0.00	0.00	20.11	17.29	16.04	143.59
5.00	- 5.16	- 0.07	61.18	316.32	1.219	0.20	0.43	20.07	17.46	16.00	143.30
10.00	- 5.33	- 0.15	55.39	312.08	1.157	0.41	0.81	20.03	17.62	15.96	143.13
15.00	- 5.50	- 0.22	49.62	307.61	1.093	0.61	1.15	19.99	17.79	15.93	142.90
20.00	- 5.67	- 0.30	43.85	302.87	1.025	0.82	1.45	19.95	17.96	15.89	142.67
25.00	- 5.84	- 0.38	38.09	297.79	0.954	1.02	1.70	19.91	18.13	15.84	142.47
30.00	- 6.01	- 0.45	32.33	292.30	0.876	1.23	1.91	19.87	18.30	15.80	142.23

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	5,336°
Anti-squat	29,066%

100% anti-dive angle	7,325°
Effective anti-dive angle	0,742°
Anti-dive	10,070%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 14 AF

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
• Front	25mm
• Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Wheel DR/SM mm	Variat Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	- 3.98	0.42	106.49	341.06	1.631	- 0.90	- 3.64	20.52	16.28	16.22	145.98
-25.00	- 4.15	0.35	100.72	337.92	1.577	- 0.75	- 2.92	20.45	16.44	16.19	145.57
-20.00	- 4.32	0.29	94.95	334.67	1.522	- 0.61	- 2.25	20.38	16.61	16.16	145.17
-15.00	- 4.49	0.22	89.20	331.30	1.466	- 0.46	- 1.62	20.31	16.78	16.13	144.77
-10.00	- 4.66	0.15	83.45	327.79	1.409	- 0.31	- 1.04	20.25	16.95	16.10	144.38
-5.00	- 4.83	0.07	77.71	324.15	1.352	- 0.15	- 0.50	20.18	17.12	16.07	143.99
0.00	- 5.00	0.00	71.97	320.34	1.293	0.00	0.00	20.11	17.29	16.04	143.59
5.00	- 5.17	- 0.07	66.24	316.36	1.233	0.15	0.45	20.05	17.47	16.01	143.21
10.00	- 5.35	- 0.15	60.52	312.17	1.171	0.31	0.86	19.98	17.64	15.98	142.82
15.00	- 5.53	- 0.23	54.81	307.76	1.106	0.47	1.23	19.92	17.82	15.94	142.44
20.00	- 5.71	- 0.31	49.10	303.07	1.039	0.63	1.56	19.85	18.00	15.91	142.06
25.00	- 5.89	- 0.39	43.40	298.07	0.968	0.79	1.84	19.79	18.18	15.88	141.68
30.00	- 6.07	- 0.47	37.71	292.66	0.890	0.95	2.08	19.72	18.36	15.84	141.31

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	6,821°
Anti-squat	37,222%

100% anti-dive angle	7,325°
Effective anti-dive angle	-0,164°
Anti-dive	-2,233%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 14 BF

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
• Front	25mm
• Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. l. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	- 3.89	0.43	111.94	341.14	1.625	- 1.21	- 3.98	20.35	16.18	16.26	145.02
-25.00	- 4.07	0.36	106.11	337.99	1.571	- 1.01	- 3.20	20.31	16.36	16.22	144.78
-20.00	- 4.25	0.29	100.29	334.72	1.516	- 0.81	- 2.47	20.27	16.54	16.19	144.54
-15.00	- 4.44	0.22	94.48	331.34	1.460	- 0.61	- 1.79	20.23	16.73	16.15	144.30
-10.00	- 4.62	0.15	88.68	327.82	1.404	- 0.41	- 1.15	20.19	16.92	16.12	144.06
-5.00	- 4.81	0.07	82.89	324.16	1.346	- 0.20	- 0.55	20.15	17.10	16.08	143.83
0.00	- 5.00	0.00	77.10	320.34	1.288	0.00	0.00	20.11	17.29	16.04	143.59
5.00	- 5.19	- 0.07	71.33	316.34	1.228	0.20	0.51	20.08	17.48	16.00	143.36
10.00	- 5.38	- 0.15	65.56	312.14	1.166	0.41	0.97	20.04	17.67	15.97	143.13
15.00	- 5.57	- 0.23	59.80	307.70	1.101	0.61	1.39	20.00	17.87	15.93	142.90
20.00	- 5.77	- 0.30	54.04	303.00	1.034	0.82	1.77	19.96	18.06	15.89	142.67
25.00	- 5.96	- 0.38	48.30	297.97	0.963	1.03	2.10	19.93	18.26	15.85	142.45
30.00	- 6.16	- 0.46	42.56	292.53	0.885	1.24	2.39	19.89	18.45	15.81	142.22

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	5,512°
Anti-squat	30,029%

100% anti-dive angle	7,325°
Effective anti-dive angle	0,635°
Anti-dive	8,618%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 14 BG

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
•Front	25mm
•Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	-3.83	0.43	116.43	340.95	1.639	-0.91	-4.11	20.50	16.12	16.21	145.95
-25.00	-4.02	0.36	110.67	337.82	1.585	-0.77	-3.32	20.43	16.31	16.19	145.55
-20.00	-4.21	0.29	104.91	334.59	1.530	-0.61	-2.57	20.37	16.51	16.16	145.16
-15.00	-4.41	0.22	99.17	331.23	1.474	-0.46	-1.86	20.30	16.70	16.13	144.76
-10.00	-4.60	0.15	93.43	327.75	1.417	-0.31	-1.20	20.24	16.90	16.10	144.37
-5.00	-4.80	0.07	87.70	324.12	1.360	-0.16	-0.58	20.18	17.09	16.07	143.98
0.00	-5.00	0.00	81.97	320.34	1.301	0.00	0.00	20.11	17.29	16.04	143.59
5.00	-5.20	-0.08	76.26	316.38	1.241	0.16	0.53	20.05	17.49	16.01	143.21
10.00	-5.40	-0.15	70.55	312.23	1.179	0.31	1.02	19.99	17.69	15.98	142.83
15.00	-5.60	-0.23	64.84	307.85	1.115	0.47	1.47	19.93	17.90	15.95	142.45
20.00	-5.81	-0.31	59.15	303.20	1.048	0.63	1.87	19.87	18.10	15.91	142.08
25.00	-6.01	-0.39	53.46	298.23	0.977	0.80	2.23	19.80	18.30	15.88	141.70
30.00	-6.22	-0.48	47.78	292.88	0.900	0.96	2.55	19.74	18.51	15.85	141.33

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	7,096°
Anti-squat	38,734%

100% anti-dive angle	7,325°
Effective anti-dive angle	-0,332°
Anti-dive	-4,514%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 14 CH

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
• Front	25mm
• Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat degree	Rim/w offset mm	C. trail /offset mm
-30.00	- 3.68	0.44	126.11	340.84	1.647	- 0.93	- 4.57	20.48	15.97	16.21	145.93
-25.00	- 3.90	0.37	120.35	337.73	1.592	- 0.78	- 3.70	20.42	16.19	16.18	145.53
-20.00	- 4.11	0.30	114.61	334.51	1.537	- 0.62	- 2.87	20.35	16.41	16.16	145.14
-15.00	- 4.33	0.22	108.87	331.17	1.482	- 0.47	- 2.09	20.29	16.63	16.13	144.75
-10.00	- 4.55	0.15	103.14	327.71	1.425	- 0.31	- 1.35	20.23	16.85	16.10	144.36
-5.00	- 4.78	0.08	97.42	324.10	1.368	- 0.16	- 0.65	20.17	17.07	16.07	143.98
0.00	- 5.00	0.00	91.71	320.34	1.309	0.00	0.00	20.11	17.29	16.04	143.59
5.00	- 5.22	- 0.08	86.00	316.41	1.249	0.16	0.61	20.05	17.52	16.01	143.22
10.00	- 5.45	- 0.16	80.30	312.28	1.188	0.32	1.18	19.99	17.74	15.98	142.84
15.00	- 5.68	- 0.24	74.61	307.93	1.124	0.48	1.70	19.94	17.97	15.95	142.46
20.00	- 5.91	- 0.32	68.93	303.32	1.056	0.64	2.18	19.88	18.20	15.92	142.09
25.00	- 6.14	- 0.40	63.25	298.41	0.985	1.80	2.62	19.82	18.43	15.89	141.72
30.00	- 6.37	- 0.48	57.58	293.10	0.909	1.97	3.01	19.76	18.66	15.85	141.36

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	7,407°
Anti-squat	40,452%

100% anti-dive angle	7,325°
Effective anti-dive angle	-0,523°
Anti-dive	-7,105%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 14 CG

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
•Front	25mm
• Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	-3.73	0.44	121.70	341.03	1.633	- 1.22	-4.44	20.33	16.02	16.25	145.01
-25.00	-3.94	0.37	115.89	337.89	1.579	- 1.02	-3.59	20.29	16.23	16.22	144.77
-20.00	-4.15	0.30	110.09	334.64	1.524	-0.82	-2.78	20.26	16.44	16.18	144.53
-15.00	-4.36	0.22	104.29	331.28	1.468	-0.61	-2.02	20.22	16.65	16.15	144.30
-10.00	-4.57	0.15	98.51	327.78	1.412	-0.41	-1.30	20.18	16.86	16.11	144.06
-5.00	-4.79	0.08	92.73	324.14	1.354	-0.20	-0.63	20.15	17.08	16.08	143.83
0.00	-5.00	0.00	86.96	320.34	1.296	0.00	0.00	20.11	17.29	16.04	143.59
5.00	-5.22	-0.08	81.20	316.37	1.236	0.21	0.59	20.08	17.51	16.01	143.36
10.00	-5.43	-0.15	75.45	312.19	1.174	0.41	1.13	20.04	17.72	15.97	143.13
15.00	-5.65	-0.23	69.70	307.79	1.110	0.62	1.62	20.01	17.94	15.93	142.91
20.00	-5.87	-0.31	63.97	303.12	1.043	0.82	2.08	19.98	18.16	15.89	142.68
25.00	-6.09	-0.39	58.24	298.13	0.972	1.03	2.49	19.94	18.38	15.86	142.46
30.00	-6.31	-0.47	52.51	292.75	0.895	1.24	2.85	19.91	18.60	15.82	142.23

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	5,711°
Anti-squat	31,118%

100% anti-dive angle	7,325°
Effective anti-dive angle	0,514°
Anti-dive	6,975%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 15 CG

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
•Front	25mm
• Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	- 3.78	0.36	112.62	341.66	1.588	- 0.68	- 4.09	20.15	16.07	16.23	144.05
-25.00	- 3.98	0.30	106.77	338.43	1.534	- 0.57	- 3.30	20.14	16.27	16.20	143.97
-20.00	- 4.18	0.24	100.93	335.09	1.480	- 0.46	- 2.55	20.14	16.48	16.16	143.89
-15.00	- 4.39	0.18	95.10	331.62	1.425	- 0.34	- 1.84	20.13	16.68	16.13	143.82
-10.00	- 4.59	0.12	89.29	328.02	1.369	- 0.23	- 1.18	20.12	16.88	16.10	143.74
-5.00	- 4.79	0.06	83.47	324.26	1.312	- 0.11	- 0.57	20.12	17.09	16.07	143.67
0.00	- 5.00	0.00	77.67	320.34	1.254	0.00	0.00	20.11	17.29	16.04	143.60
5.00	- 5.21	- 0.06	71.88	316.24	1.195	0.11	0.53	20.11	17.50	16.01	143.52
10.00	- 5.41	- 0.12	66.09	311.92	1.134	0.23	1.01	20.10	17.71	15.98	143.45
15.00	- 5.62	- 0.18	60.32	307.36	1.071	0.35	1.44	20.10	17.91	15.95	143.38
20.00	- 5.83	- 0.24	54.55	302.51	1.004	0.46	1.84	20.10	18.12	15.92	143.30
25.00	- 6.04	- 0.30	48.79	297.33	0.933	0.58	2.19	20.09	18.34	15.89	143.23
30.00	- 6.26	- 0.37	43.04	291.71	0.856	0.69	2.49	20.09	18.55	15.86	143.16

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	2,369°
Anti-squat	12,873%

100% anti-dive angle	7,325°
Effective anti-dive angle	0,051°
Anti-dive	0,692%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 15 CH

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
•Front	25mm
•Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	-3.73	0.35	117.15	341.46	1.601	-0.40	-4.23	20.30	16.02	16.18	144.98
-25.00	-3.94	0.30	111.37	338.26	1.547	-0.33	-3.41	20.27	16.23	16.16	144.74
-20.00	-4.15	0.24	105.59	334.95	1.493	-0.27	-2.64	20.24	16.44	16.14	144.51
-15.00	-4.36	0.18	99.82	331.51	1.438	-0.20	-1.91	20.20	16.65	16.11	144.28
-10.00	-4.57	0.12	94.06	327.94	1.382	-0.14	-1.23	20.17	16.86	16.09	144.05
-5.00	-4.79	0.06	88.31	324.22	1.325	-0.07	-0.59	20.14	17.08	16.07	143.82
0.00	-5.00	0.00	82.57	320.34	1.267	0.00	0.00	20.11	17.29	16.04	143.59
5.00	-5.22	-0.06	76.84	316.28	1.208	0.07	0.55	20.08	17.51	16.02	143.37
10.00	-5.43	-0.12	71.11	312.01	1.147	0.14	1.06	20.05	17.72	15.99	143.15
15.00	-5.65	-0.19	65.39	307.50	1.084	0.21	1.52	20.03	17.94	15.97	142.93
20.00	-5.87	-0.25	59.68	302.72	1.017	0.28	1.94	20.00	18.16	15.94	142.71
25.00	-6.09	-0.32	53.98	297.60	0.947	0.35	2.32	19.97	18.38	15.92	142.49
30.00	-6.31	-0.38	48.28	292.07	0.870	0.43	2.65	19.94	18.61	15.89	142.27

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	3,962°
Anti-squat	21,550%

100% anti-dive angle	7,325°
Effective anti-dive angle	-0,956°
Anti-dive	-12,986%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 15 BG

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
•Front	25mm
• Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	-3.88	0.34	107.18	341.58	1.594	-0.38	-3.76	20.32	16.17	16.18	144.99
-25.00	-4.06	0.29	101.38	338.36	1.540	-0.32	-3.03	20.28	16.35	16.16	144.76
-20.00	-4.25	0.23	95.59	335.03	1.485	-0.26	-2.33	20.25	16.54	16.14	144.52
-15.00	-4.43	0.18	89.81	331.58	1.430	-0.19	-1.68	20.21	16.73	16.11	144.29
-10.00	-4.62	0.12	84.04	327.99	1.374	-0.13	-1.08	20.18	16.91	16.09	144.06
-5.00	-4.81	0.06	78.28	324.25	1.318	-0.07	-0.52	20.15	17.10	16.07	143.82
0.00	-5.00	0.00	72.52	320.34	1.260	0.00	0.00	20.11	17.29	16.04	143.59
5.00	-5.19	-0.06	66.77	316.25	1.200	0.07	0.47	20.08	17.48	16.02	143.37
10.00	-5.38	-0.12	61.03	311.95	1.139	0.13	0.90	20.05	17.68	15.99	143.14
15.00	-5.58	-0.18	55.30	307.41	1.076	0.20	1.29	20.02	17.87	15.97	142.92
20.00	-5.77	-0.25	49.57	302.59	1.009	0.27	1.63	19.98	18.06	15.94	142.69
25.00	-5.97	-0.31	43.86	297.43	0.938	0.34	1.93	19.95	18.26	15.91	142.47
30.00	-6.17	-0.37	38.14	291.85	0.861	0.41	2.19	19.92	18.46	15.89	142.25

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	3,774°
Anti-squat	20,526%

100% anti-dive angle	7,325°
Effective anti-dive angle	-0,837°
Anti-dive	-11,371%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 15 BF

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
•Front	25mm
•Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	- 3.94	0.35	102.55	341.78	1.580	- 0.67	- 3.62	20.16	16.23	16.23	144.05
-25.00	- 4.11	0.29	96.68	338.53	1.526	- 0.56	- 2.91	20.16	16.40	16.20	143.98
-20.00	- 4.29	0.23	90.83	335.17	1.472	- 0.45	- 2.24	20.15	16.58	16.17	143.90
-15.00	- 4.46	0.17	84.98	331.69	1.417	- 0.34	- 1.61	20.14	16.75	16.14	143.82
-10.00	- 4.64	0.12	79.14	328.06	1.361	- 0.23	- 1.03	20.13	16.93	16.10	143.75
-5.00	- 4.82	0.06	73.31	324.29	1.304	- 0.11	- 0.49	20.12	17.11	16.07	143.67
0.00	- 5.00	0.00	67.49	320.34	1.247	0.00	0.00	20.11	17.29	16.04	143.60
5.00	- 5.18	- 0.06	61.68	316.21	1.187	0.11	0.45	20.11	17.47	16.01	143.52
10.00	- 5.36	- 0.12	55.87	311.86	1.126	0.23	0.85	20.10	17.66	15.98	143.45
15.00	- 5.55	- 0.18	50.08	307.27	1.062	0.34	1.21	20.09	17.84	15.95	143.37
20.00	- 5.73	- 0.24	44.29	302.38	0.996	0.45	1.52	20.08	18.02	15.91	143.30
25.00	- 5.92	- 0.30	38.51	297.15	0.924	0.57	1.80	20.08	18.21	15.88	143.23
30.00	- 6.11	- 0.36	32.74	291.48	0.847	0.68	2.02	20.07	18.40	15.85	143.16

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	2,283°
Anti-squat	12,405%

100% anti-dive angle	7,325°
Effective anti-dive angle	0,105°
Anti-dive	1,430%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 15 AF

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
• Front	25mm
• Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. l. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat degree	Rim/w offset mm	C. trail /offset mm
-30.00	- 4.03	0.34	96.92	341.69	1.586	- 0.36	- 3.29	20.33	16.33	16.19	145.01
-25.00	- 4.19	0.28	91.12	338.46	1.532	- 0.31	- 2.63	20.30	16.48	16.16	144.77
-20.00	- 4.35	0.23	85.31	335.12	1.477	- 0.25	- 2.01	20.26	16.64	16.14	144.53
-15.00	- 4.51	0.17	79.52	331.64	1.422	- 0.19	- 1.44	20.22	16.80	16.12	144.30
-10.00	- 4.67	0.12	73.74	328.03	1.366	- 0.13	- 0.92	20.19	16.96	16.09	144.06
-5.00	- 4.84	0.06	67.96	324.27	1.310	- 0.06	- 0.44	20.15	17.13	16.07	143.83
0.00	- 5.00	0.00	62.19	320.34	1.252	0.00	0.00	20.11	17.29	16.04	143.59
5.00	- 5.17	- 0.06	56.43	316.23	1.192	0.06	0.39	20.08	17.46	16.02	143.36
10.00	- 5.33	- 0.12	50.67	311.90	1.131	0.13	0.74	20.04	17.62	15.99	143.14
15.00	- 5.50	- 0.18	44.93	307.32	1.067	0.20	1.05	20.01	17.79	15.96	142.91
20.00	- 5.67	- 0.24	39.19	302.46	1.000	0.26	1.31	19.97	17.96	15.94	142.68
25.00	- 5.84	- 0.30	33.45	297.25	0.929	0.33	1.53	19.94	18.14	15.91	142.46
30.00	- 6.02	- 0.37	27.73	291.62	0.852	0.40	1.71	19.90	18.31	15.88	142.23

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	3,608°
Anti-squat	19,622%

100% anti-dive angle	7,325°
Effective anti-dive angle	-0,733°
Anti-dive	-9,947%

CHASSIS

Suspension adjustment Tables

30

REAR AXLE ASSEMBLY

Position of Suspension wishbones: 15 AE

Loaded wheel/tyre assembly radius	263,99mm
Initial setting	
- Camber	- 5°
- Alignment	- 0.2°
- body height (height between pads and ground):	
•Front	25mm
•Rear	35mm

Position of actual suspension point (in mm)

Point	Definition	X	Y	Z
1	Bottom Suspension wishbone, wheel side	77.880	587.570	180.530
3	Top Suspension wishbone, wheel side	-5.900	516.350	409.310
5	Alignment rod, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Right end of antiroll bar	21.900	125.030	355.640
9	Left end of antiroll bar	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, chassis side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, chassis side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, chassis side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, chassis side	-214.300	106.440	330.470
18	Alignment bar, gear rack side	-110.490	105.500	152.300
19	Push-rod, tipper side	63.800	87.410	388.810
20	Wheel centre	0.000	634.730	283.920
26	Damper fastening point on chassis	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Wheel DR/SM mm	Variat. Wbase mm	V In-Tr width mm	Wheel castor degree	C.gyra Rotat. degree	Rim/w offset mm	C. trail /offset mm
-30.00	-4.09	0.34	92.19	341.90	1.573	-0.66	-3.14	20.18	16.39	16.23	144.06
-25.00	-4.24	0.28	86.31	338.64	1.519	-0.55	-2.51	20.17	16.53	16.20	143.98
-20.00	-4.39	0.23	80.44	335.26	1.464	-0.44	-1.92	20.16	16.68	16.17	143.90
-15.00	-4.54	0.17	74.57	331.76	1.409	-0.33	-1.37	20.15	16.83	16.14	143.83
-10.00	-4.69	0.11	68.72	328.11	1.353	-0.22	-0.87	20.13	16.98	16.11	143.75
-5.00	-4.85	0.06	62.87	324.31	1.296	-0.11	-0.41	20.12	17.14	16.07	143.67
0.00	-5.00	0.00	57.03	320.34	1.238	0.00	0.00	20.11	17.29	16.04	143.60
5.00	-5.16	-0.06	51.20	316.18	1.179	0.11	0.37	20.10	17.45	16.01	143.52
10.00	-5.31	-0.12	45.37	311.80	1.118	0.22	0.69	20.09	17.60	15.98	143.44
15.00	-5.47	-0.17	39.56	307.17	1.054	0.34	0.97	20.08	17.76	15.94	143.37
20.00	-5.63	-0.23	33.75	302.25	0.987	0.45	1.20	20.07	17.92	15.91	143.30
25.00	-5.79	-0.29	27.95	296.97	0.916	0.56	1.39	20.06	18.08	15.88	143.22
30.00	-5.96	-0.35	22.15	291.24	0.838	0.67	1.54	20.05	18.25	15.84	143.15

Wheelbase (mm)	2645
Height of centre of gravity (mm)	340

100% anti-squat angle	17,815°
Effect. Anti-squat angle	2,207°
Anti-squat	11,990%

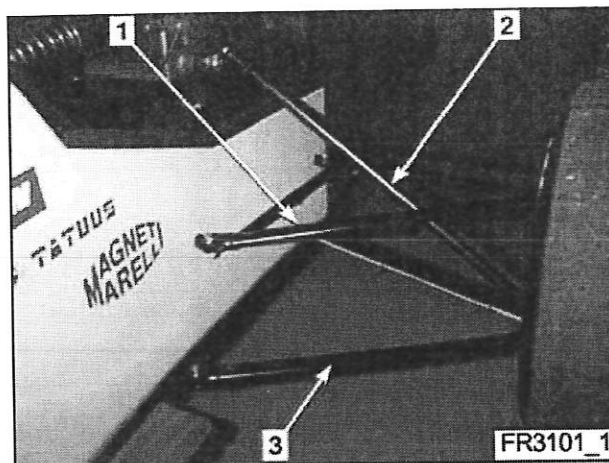
100% anti-dive angle	7,325°
Effective anti-dive angle	0,153°
Anti-dive	2,083%

OVERVIEW

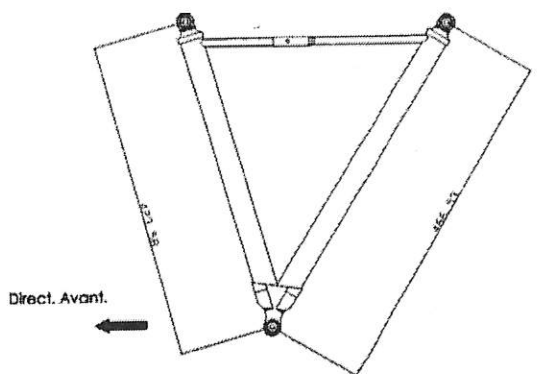
Each side of the front axle assembly contains:

- top Suspension wishbone (1),
- bottom Suspension wishbone (3),
- push-rod (2),

- damper (5),
- a return (4), which houses the head of the damper and the push-rod arms,
- an anti-rolling motion (6),



The shortest arm of the top Suspension wishbone should be installed towards the front of the car.



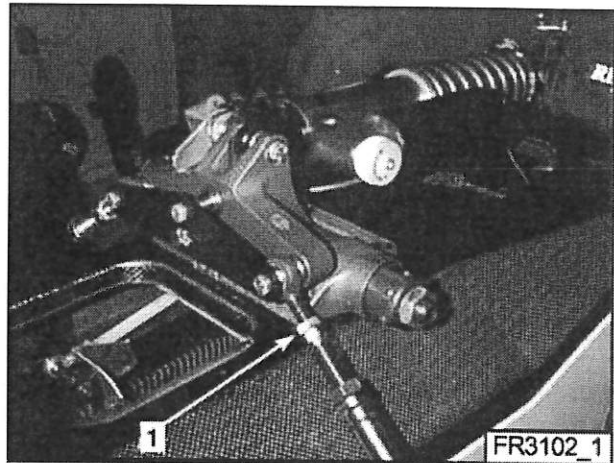
CHASSIS HEIGHT

The height of the front of the chassis is adjusted the push-rods arm.

One turn of the arm screw (1) varies the height of the chassis by 4.3mm.

An increase of 4.3mm in height varies the angles of the front axle assembly by the following values:

- Camber: -0.119° .
- Caster: -0.022° .
- Alignment: 0.008° (toe).



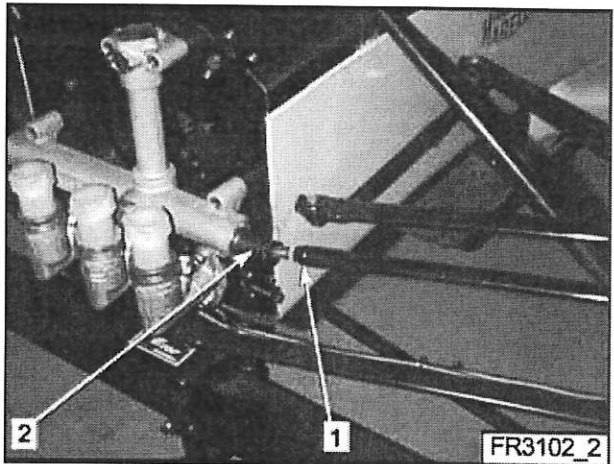
ALIGNMENT

The Alignment is adjusted by means of the steering rod.

- Check that the gear rack is at the middle point. The length of the bar on the exterior of the gear rack (2) should be the same on each side.
- Actuate arm (1).

One turn of the arm screw (1) varies the Alignment by 0.62° .

This adjustment increases the opening and raises the height of the chassis by 0.056mm.



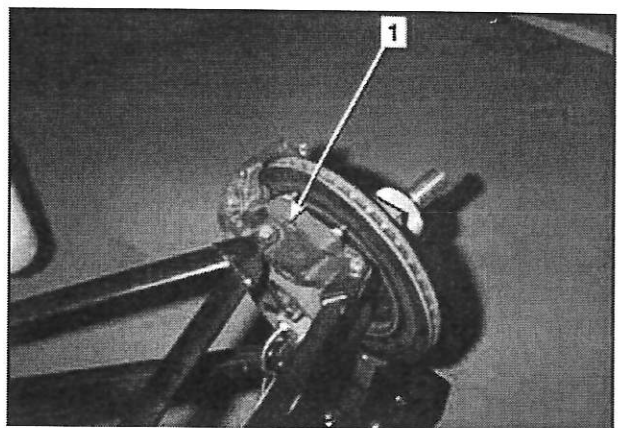
CAMBER

The camber is adjusted by means of shims (1) inserted on the hub carrier.

One 2mm shim thickness varies the camber by 0.5° .

Two shim thickness are available:

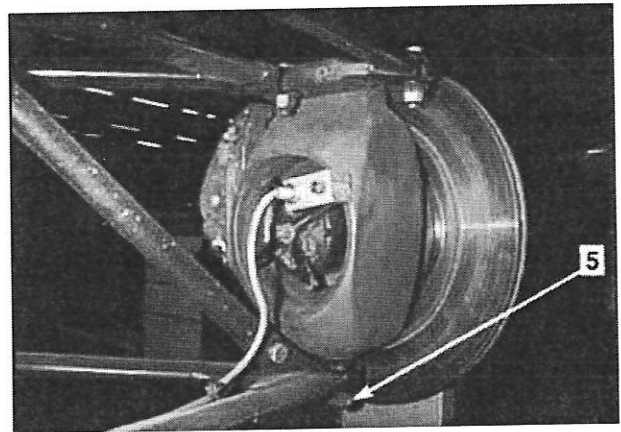
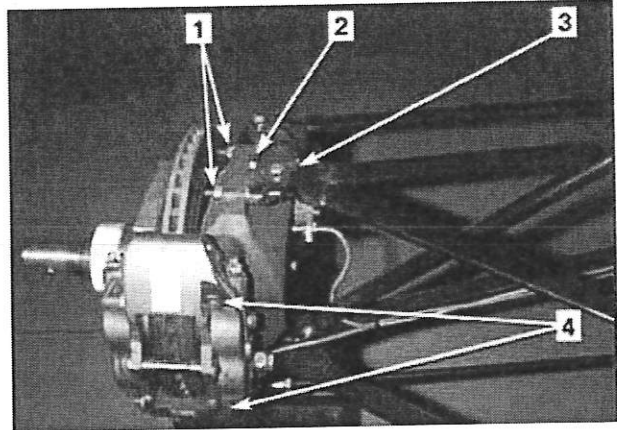
- 1mm Ref. FR01 -07.26A,
- 2mm Ref. FR01 -07.26B.



REMOVAL

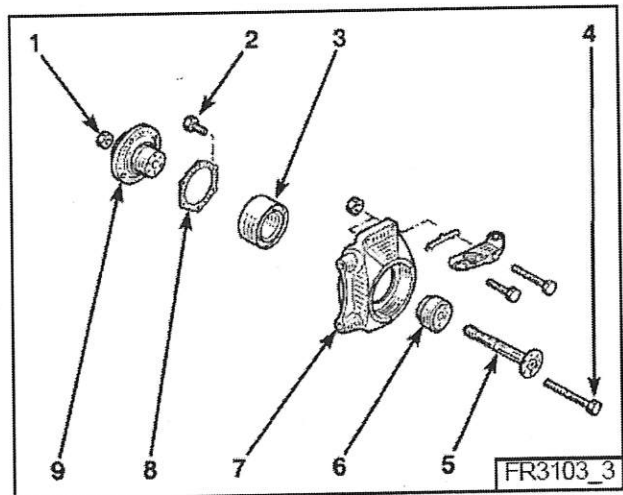
- Remove wheel.
- Remove the two bolts (4) fastening the calliper on the hub carrier.
- Disengage calliper and hook it onto suspension wishbone.
- Remove disc.
- Remove the two bolts (1) fastening the top suspension wishbone mounting/steering rod (3).
- Save the shims (2).

- Remove nut-fastening bottom suspension wishbone (5).
- Remove hub carrier. Save tapered spacer on bottom suspension wishbone.



DISASSEMBLY

- Remove nuts (1). Save the bolts (4).
- Remove spindle (5) from hub by tapping on end of spindle with a plastic mallet. Make sure not to damage the threading.
- Remove external hub (9) from hub carrier (7) using 4mm dia. pin drift. Do it through the hole in the external hub (9).
- Remove internal hub (6) from hub carrier (7) in the same manner.
- Remove bolts (2) fastening bearing end shield (8).
- Remove end shield.
- Heat hub carrier (7) to 120°C.
- Remove bearing (3).



NOTA: The bearing should come out without having to use any tools.

FRONT AXLE ASSEMBLY

Hub carrier

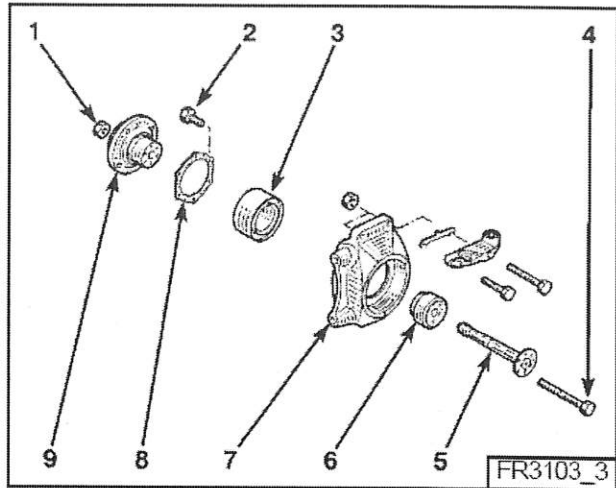
31

ASSEMBLY

- Heat hub carrier (7) to 120° C and install bearing (3) in hub carrier.

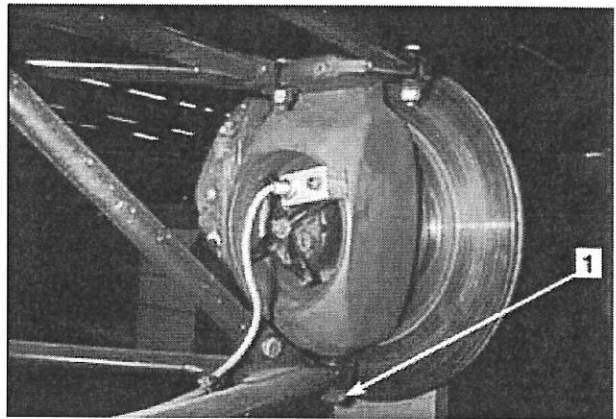
NOTA: The bearing should come out without having to use any tools.

- Fasten bearing end shield (8) with bolts (2) coated with a few drops of LOCTITE 243. Torque bolts to 6N.m.
- Use press and drive it home onto internal bearing cage (3) to install external hub (9) in bearing.
- Install internal hub (6) on hub carrier (7). - Install wheel spindle (5) in hub.
- Run bolts (4) through holes in wheel spindle. Torque nuts (1) to 25N.m.



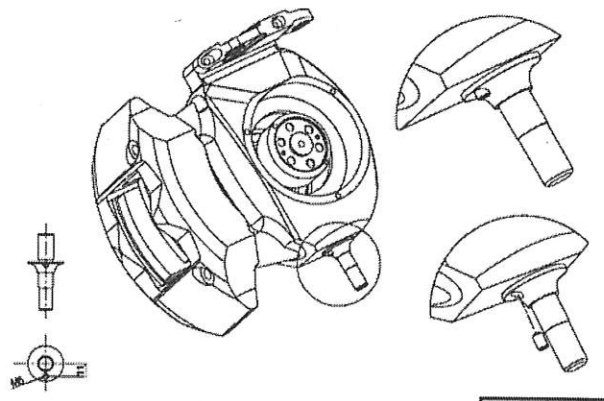
INSTALLATION

- Follow removal steps in reverse order.
- Observe tightening torques.
- When replacing axis pivot of the bottom Suspension wishbone (1) :
 - clean axis and tapping with solvent
 - install spindle using LOCTITE 270 or 2701. Torque to 70N.m.



ALLOWED MODIFICATION

- Improvement of the axis pivot (1) holding.
- It is allowed to make a M5 thread hole on upright pin cod FR02-07-01 2 in order to use bolt cod UNI 5927 M5X4 like draw show on the right.
- After tightened pin make on upright surface where there is thread M5 hole on pin for to accept conic bolt tip.
- Screw bolt and lock it by LOCTITE 270 in order to prevent that pin can loose.

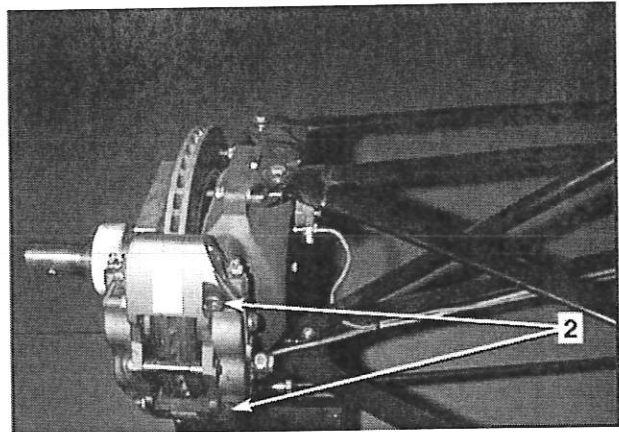


FRONT AXLE ASSEMBLY

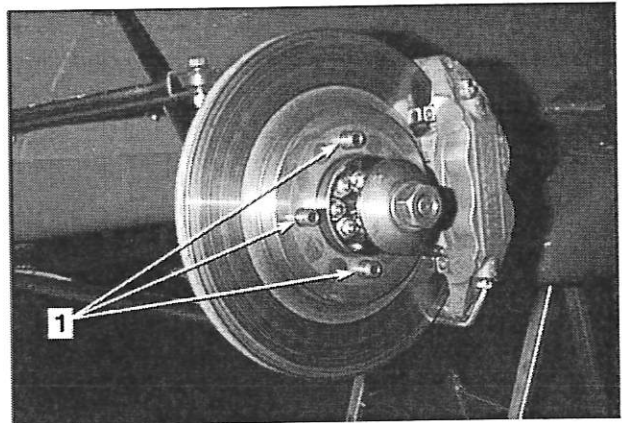
Hub carrier

31

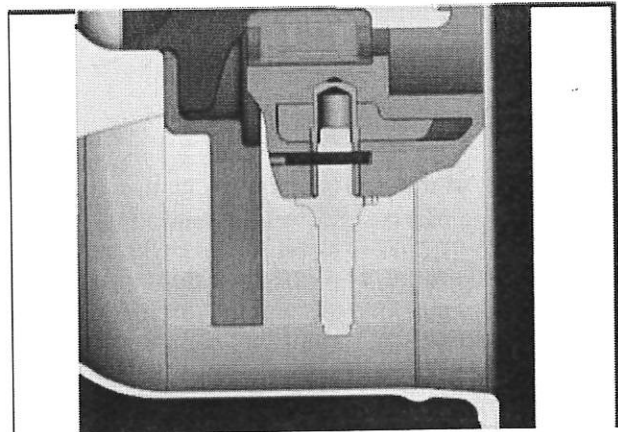
- Coat bolts (2) for fastening brake callipers with copper grease. Torque to 45N.m.



- When replacing dowels (1), put a few drops of LOCTITE 270 or 2701 on them. Torque to 45N.m.



- New uprights are available from the Renault Spare Parts Department with the following references:
 - 77 11 154 951 : Front left upright
 - 77 11 154 952: Front right upright
- The upright, a Hélicoïl, an axle, and a stud, which is stuck in the Hélicoïl, are included in the reference. The stud must not be removed.
- In case of frontal accident, it is recommended to change this part.

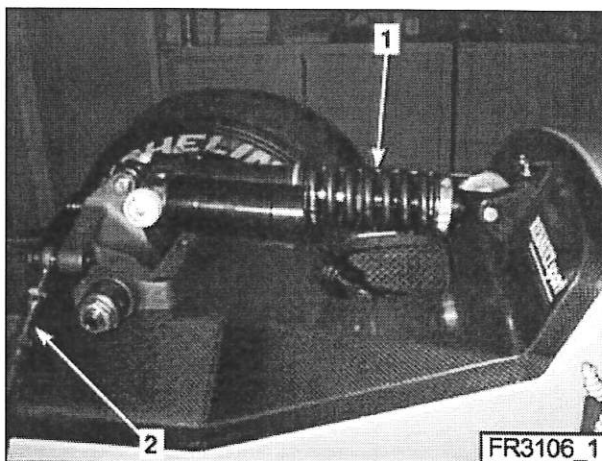


DESCRIPTION

The front suspension is by means of push rod (2) and single damper (1).

The compression and rebound can be adjusted. It contains:

- rebound regulator (3),
- nitrogen reservoir (5) equipped with a screw (4), which makes it possible to measure the pressure and drain the reservoir.
- compression regulator (6).



ADJUSTMENT

IMPORTANT: Do not touch screw (7).

Compression

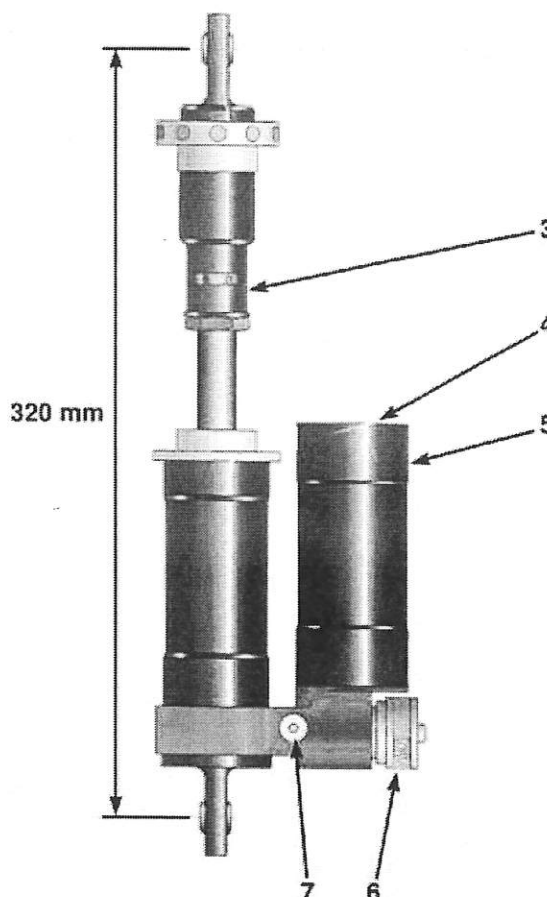
- Turn knurled knob until it abuts in the clockwise direction = hard compression.
- Turn knurled knob until it abuts in the counter clockwise direction (24 clicks) = flexible compression.

NOTA: It is possible that there will be more than 24 clicks when turning the knurled knob in this direction. After 24 clicks, there is no change in the setting.

Rebound

- Turn regulator until it abuts in the clockwise direction = hard rebound.
- Turn regulator until it abuts in the counter clockwise direction (24 clicks) = flexible rebound.

NOTA: If the regulator notches are not accessible, slightly turn end fitting to bring them opposite the window. Make sure that dimension between middle of the two ball joints is 320mm.



FRONT AXLE ASSEMBLY

Spring – Damper set

PRESSURE CHECK

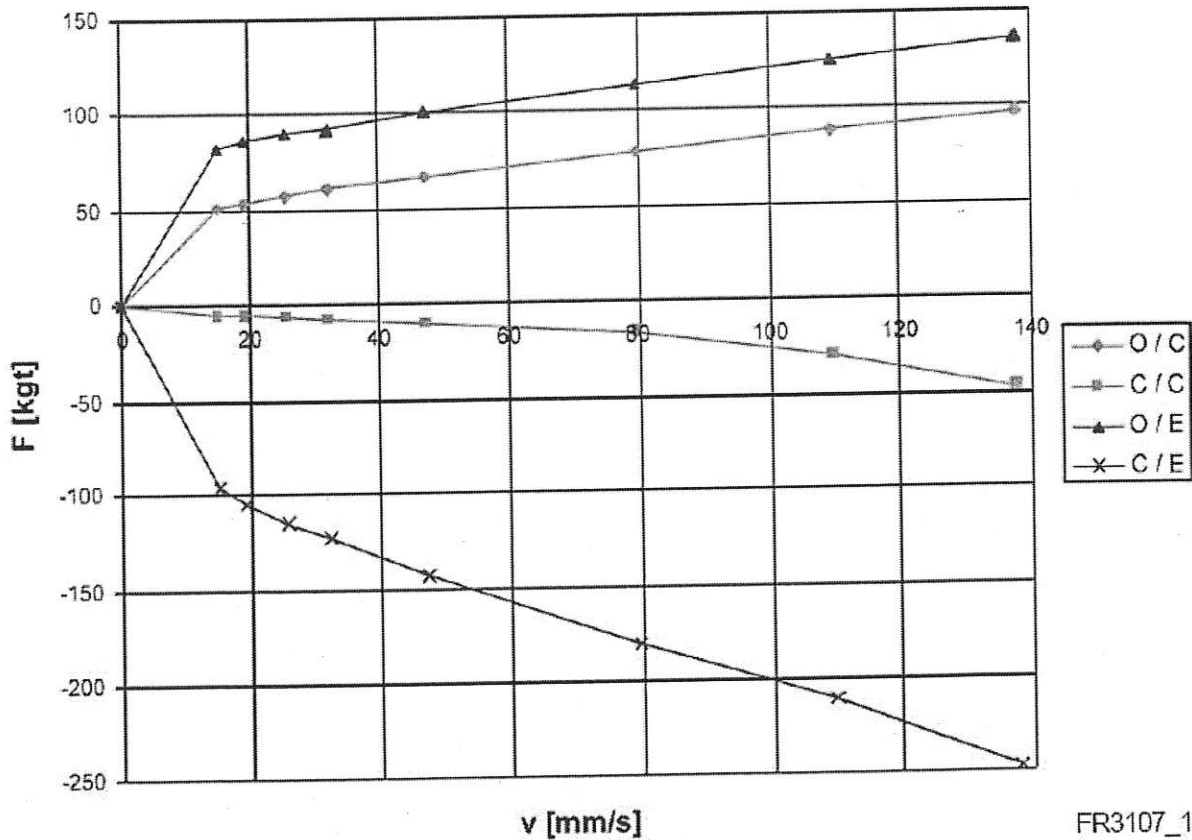
- Remove damper. Lock it in place in a vice.
- Remove screws (5) (see figure on next page). Connect pressure gauge.
- Check that pressure in reservoir is between 8 and 8,5bar. If necessary, adjust pressure.

NOTA: Make sure to take the pressure loss of 0,5 to 1bar in the measuring instrument into account.

V [MM/S]	F [KGF]			
	C/ O	D/ O	C/ F	D/ F
15.04	50.3	-5.9	82.6	- 95.7
19.35	53.1	-6.4	86.2	- 104.3
25.81	56.7	- 6.8	90.3	- 114.3
32.26	60.3	- 8.2	92.5	- 122.5
47.29	66.2	-10.9	100.7	- 143.3
79.55	78	- 16.8	113.4	- 180.1
109.68	88	- 30.8	125.2	- 210.9
137.67	96.6	- 47.6	136.1	- 246.8

C/O = Open compression, C/F = Closed compression, D/O = Open expansion D/F, = Closed expansion.

FRONT DAMPER



FR3107_1

MAINTENANCE

- Wash damper with soap and water. Use of petrol, gasoline and solvents are forbidden.
- Change oil for the first time at 2500km, then after that, every 4000km.

NOTA: It is compulsory to use the oil recommended by the damper manufacturer. Ref.: 152.

DISASSEMBLY/ASSEMBLY

Disassembly of damper

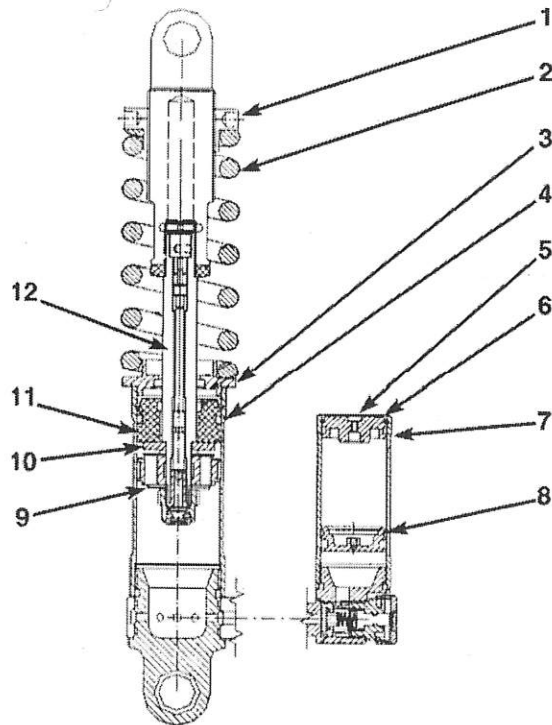
- Remove nut (1).
- Take out spring (2).
- Turn compression knurled knob until it abuts in the counter clockwise direction.
- Turn rebound regulator until it abuts in the counter clockwise direction.
- Remove screw (5).
- Bleed gas off reservoir.

IMPORTANT: Before disassembly, make sure that damper is no longer pressurized. The reservoir is correctly discharged if the bottom of the reservoir can be pushed up with fingers.

- Use rubber mallet to remove seat (3).
- Push guide (11) to gain access to snap ring (4).
- Remove snap ring.
- Separate top of damper casing.
- Drain oil.
- Unscrew rod (12) in top of damper.

Disassembly of gas separator

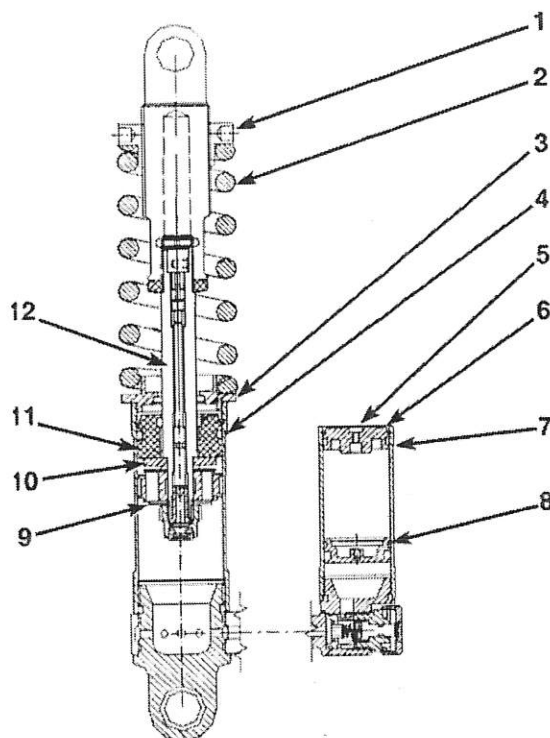
- Push plug (6) so as to gain access to snap ring (7).
- Remove snap ring.
- Remove plug (6).
- Remove separator (8).



Assembly

- Follow removal steps in the reverse order.
- Install compression shims (10) and rebound shims (9) as shown in the table below.

SHIM	COMPRESSION	REBOUND
1	Thickness: 0,2mm Diameter: 34mm	Thickness: 0,3mm Diameter: 32mm
2	Thickness: 0,2mm Diameter: 30mm With ring: Thickness: 0,3mm Inside diameter: 30mm Outside diameter: 34mm	Thickness: 0,25mm Diameter: 32mm
3	Thickness: 0,25mm Diameter: 34mm	Thickness: 0,3mm Diameter: 28mm
4	Washer: Diameter: 18mm Sharp angle towards shims	Thickness: 0,3mm Diameter: 26mm
5		Thickness: 0,3mm Diameter: 24mm
6		Thickness: 0,3mm Diameter: 22mm
7		Washer: Diameter: 18mm Sharp angle towards shims

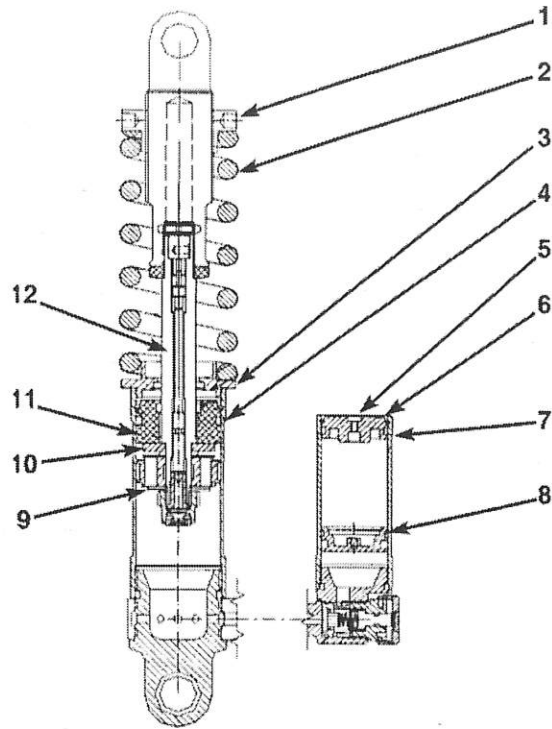


- Clean interior of damper.
- Fill casing of damper with oil, up to the edge. It is compulsory to use the oil recommended by the damper manufacturer.
- Lubricate separator O-ring (8) with silicon grease, then insert separator O-ring in reservoir.
- Completely unscrew rebound regulator.
- Wait until oil no longer emulsifies and install rod (12). Completely close compression regulator.
- Push rod (12) firmly. Wait a moment, and then pull it without letting any air in. Repeat this step two or three times.
- Pull rod and add oil. The level should come up to the throat of the snap ring (4).

FRONT AXLE ASSEMBLY

Spring – Damper set

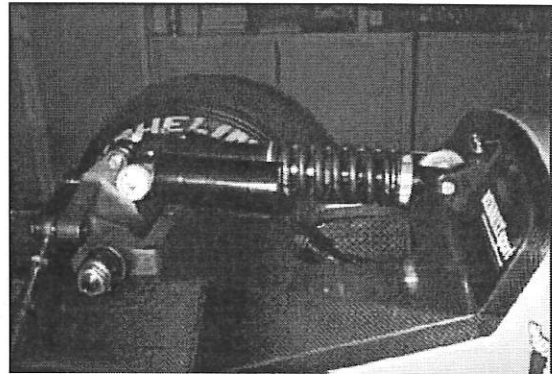
- Fit guide (11), checking that a thin stream of oil flows before its seal is in the cylinder.
- Open compression regulator.
- Push guide (11) to release snap ring throat.
- Insert snap ring (4).
- Lubricate separate seal (8).
- Install separator.
- Fit snap ring (7).
- Build pressure back up in reservoir, to 8 or 9bar.
- Insert plug (6) and seat (3).



Spring

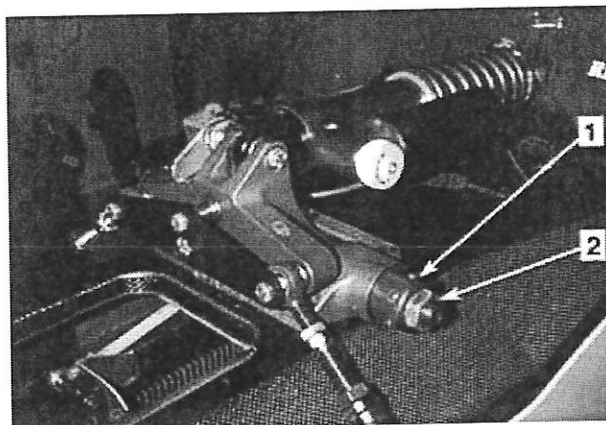
Table for various springs available.

STIFFNESS IN LB/IN	STIFFNESS EN KG/MM
700	12,40
800	14,17
900	15,49
1000	17,72
1100	19,49
1200	21,26



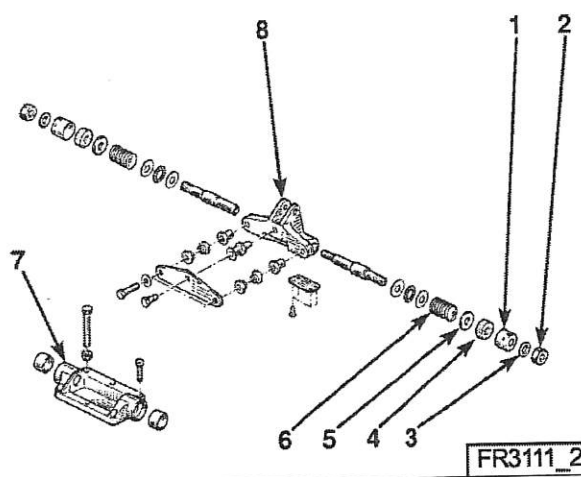
ADJUSTMENT

- Remove lock nut (2), washer (3) and bush (1).
- Set aside spacer (4) and shim (5).
- Check that ON/OFF switch (8) is correctly centred in its mounting (7). If necessary, use shims to correct.
- Insert dished washers (6), following the installation configurations in the table below.



Characteristics of dished washers (6) :

- Diameter : 31,5mm,
- Diameter : 16,3mm,
- Thickness : 2mm,



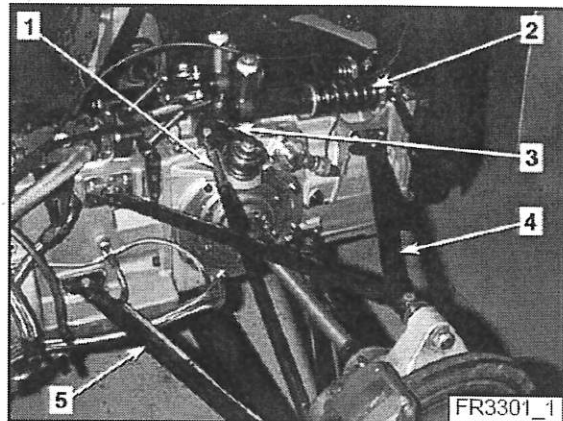
Example of configuration or setting

CONFIGURATION	CLEARANCE MAXI (MM)	THICKNESS STACK (MM)	RIGIDITÉ (DAN/MM)	PRÉLOAD MINI	PRÉLOAD MAXI
<<<<>>>>	1,125	13,5	1796	1	5,5
<<<>>><<<	1,6875	20,5	1197	2	5,5
<<>><<<	1,6875	14,25	751	3	5,5
<<>><>>	2,25	19	571	3,5	6,5
<<>><<>><<<	2,81 25	23,75	457	4	8,5
<<>	1,6875	8,25	362	4	5,5
<>>	2,25	11	272	5	6,5
<><<	2,8125	13,75	218	6	8,5
<><>>	3,375	16,5	181	6,5	10

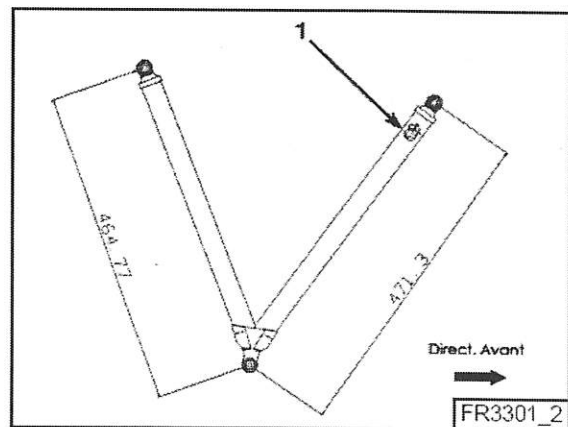
OVERVIEW

Each side of the rear axle assembly contains:

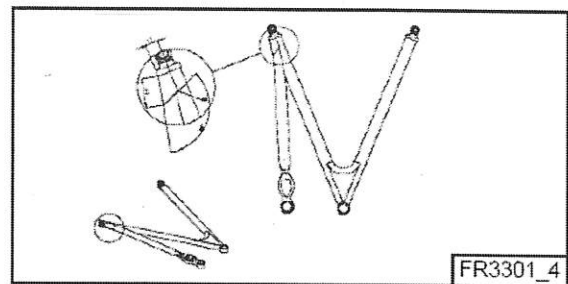
- top Suspension wishbone (4),
- bottom Suspension wishbone (5),
- push-rod (1),
- damper (2),
- ON/OFF switch (3), which houses the head of the damper and the push rod and antiroll bar arms.



The top Suspension wishbone bears the mark FRONT (1) on the longest arm. This mark should be placed towards the front of the car.

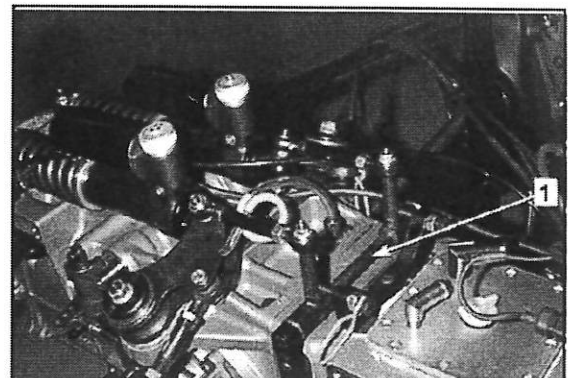


To improve the reliability of the Formula Renault 2.0, the rear lower wishbones have been modified by the addition of reinforcement (see drawing). In 2005, only the reinforced wishbones will be allowed.



The antiroll bar (1) is available in three diameters:

DIAMETER MM	STIFFNESS N.MM/DEGREE
13	51,216
15	90,859
17	149,900



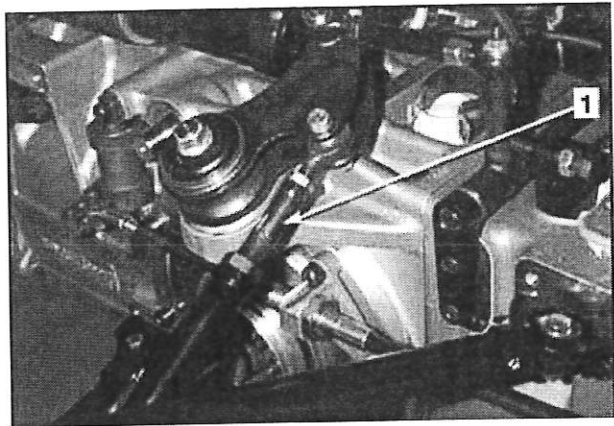
CHASSIS HEIGHT

The height of the rear of the chassis is adjusted by means of the push-rod arm.

One turn of the arm screw (1) varies the height of the chassis by 6.13mm.

An increase of 6.13mm in height varies the angles of the rear axle assembly by the following values:

- camber: - 0.228°,
- caster: - 0.115°,
- alignment: 0.019° (toe),



ALIGNMENT

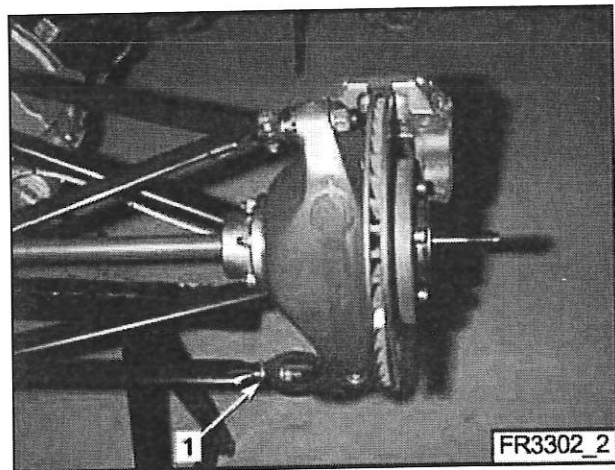
The Alignment is adjusted using shims (1) inserted on the behind arm of the inferior triangle.

A shim thickness of 0.5mm varies the Alignment by 0.189°.

This adjustment increases the opening and raises the height of the chassis by 0.137mm.

Three thickness of shim are available:

- 0,3mm Ref : FR01_10_10A,
- 0,5mm Ref : FR01_10_10B,
- 1mm Ref : FR01_10_10C,



CAMBER

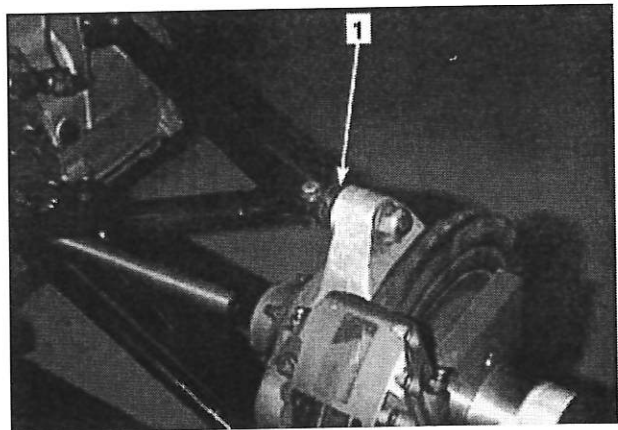
The camber is adjusted by means of shims (1) inserted on the hub carrier.

One 2mm shim thickness varies the camber by 0.5°.

Observe the positioning of shims in order to prevent friction with the rim.

Two thickness of shim are available:

- 1mm Ref. : FR01_11_14A,
- 2mm Ref.: FR01_11_14B,

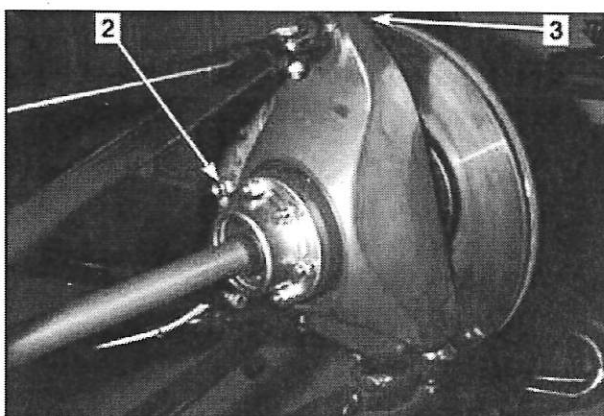


REMOVAL

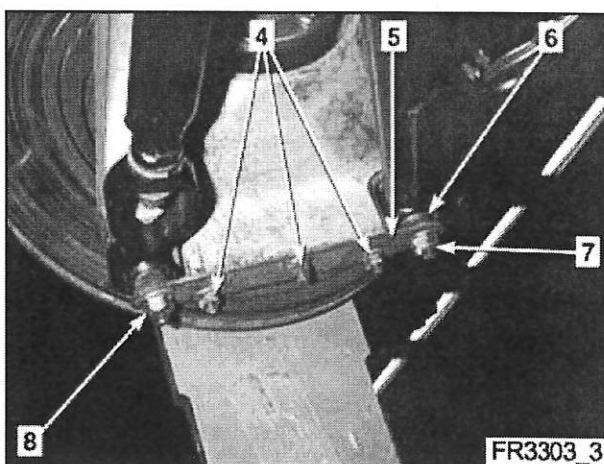
- Remove wheel.
- Remove the two bolts (1) fastening the calliper on the hub carrier.
- Disengage calliper and hook it onto Suspension wishbone.
- Remove disc.



- Remove :
 - nuts fastening drive shaft (2),
 - Bolts fastening top Suspension wishbone (3),



- Remove:
 - the two nuts fastening the bottom Suspension wishbone (7) and (8),
 - The three nuts (4), and set aside plate (5) and bottom tapered spacers (6) on bottom Suspension wishbone ball joints.
- Remove hub carrier.
- Save top tapered spacers on Suspension wishbone.



DISASSEMBLY

- Remove nuts (10).
- Save the bolts (5).
- Remove spindle (4) from hub by tapping on end of spindle with a plastic mallet. Make sure not to damage the threading.
- Remove external hub (9) from hub carrier (7) using 4mm dia. pin drift. Do it through the hole in the external hub (9).
- Remove internal hub (6) from hub carrier (7) in the same manner.
- Take out screws (3) on internal hub (6).
- Remove bolts (1) fastening bearing end shield (8).
- Remove end shield.
- Heat hub carrier (7) to 120°C.
- Remove bearing (2).

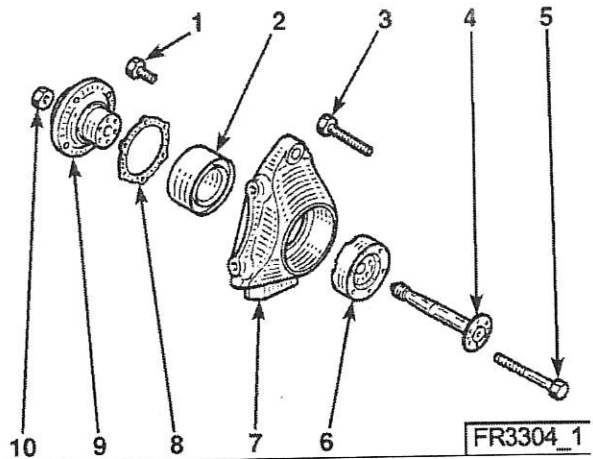
NOTA: The bearing should come out without having to use any tools.

ASSEMBLY

- Heat hub carrier (7) to 120°C and install bearing (2) in hub carrier.

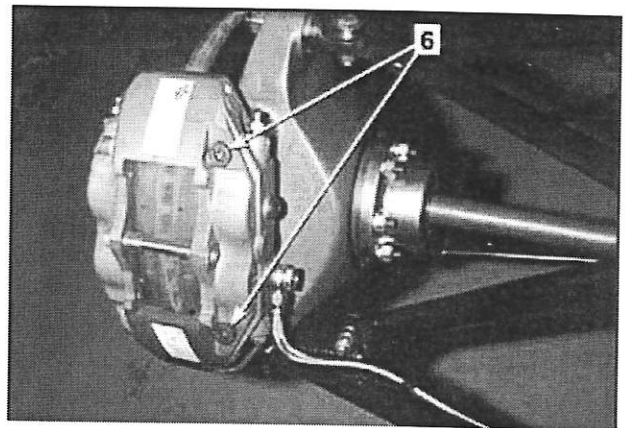
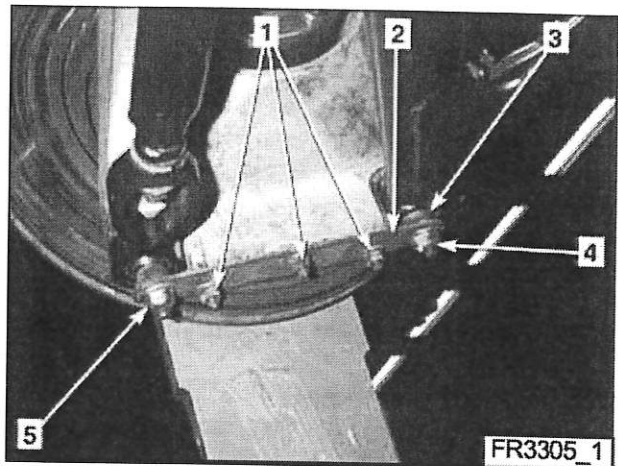
NOTA: The bearing should come out without having to use any tools.

- Fasten bearing end shield (8) with bolts (1) coated with a few drops of LOCTITE 243. Torque bolts to 6N.m.
- Use press and drive it home onto internal bearing cage (2) to install external hub (9) in bearing.
- Run bolts (3) through internal hub (6) holes to fasten drive shaft.
- Install internal hub (6) on hub carrier (7).
- Install wheel spindle (4) in hub.
- Run bolts (5) through holes in wheel spindle. Torque nuts (10) to 25N.m.

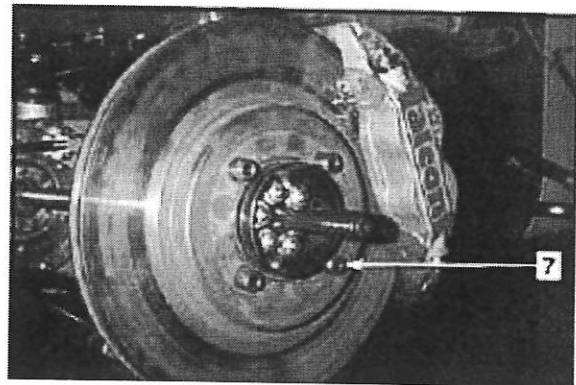


INSTALLATION

- Follow removal steps in reverse order. Observe tightening torques.
- When replacing studs (4) and (5) fastening bottom Suspension wishbone, install studs with LOCTITE 270 or 2701. Torque to 25N.m.
- When replacing studs (2) fastening plate, install studs with LOCTITE 270 or 2701. Torque to 11N.m.
- Torque nuts (1) for fastening plate to 10N.m.
- Coat bolts (6) for fastening brake callipers with copper grease. Torque to 45N.m.



- When replacing dowels (7), put a few drops of LOCTITE 270 or 2701 on them. Torque to 45N.m.

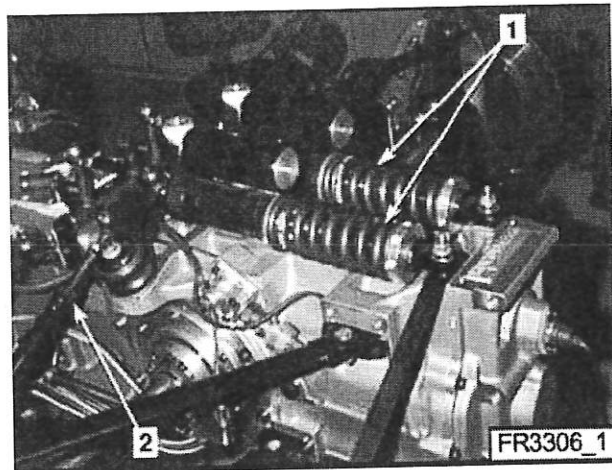


DESCRIPTION

The rear suspension is by means of push rod (2) and two dampers (1).

The compression and rebound can be adjusted. It contains:

- rebound regulator (3),
- nitrogen reservoir (5) equipped with a screw (4), which makes it possible to measure the pressure and drain the reservoir.
- compression regulator (6)



ADJUSTMENT

IMPORTANT: Do not touch screw (7).

Compression

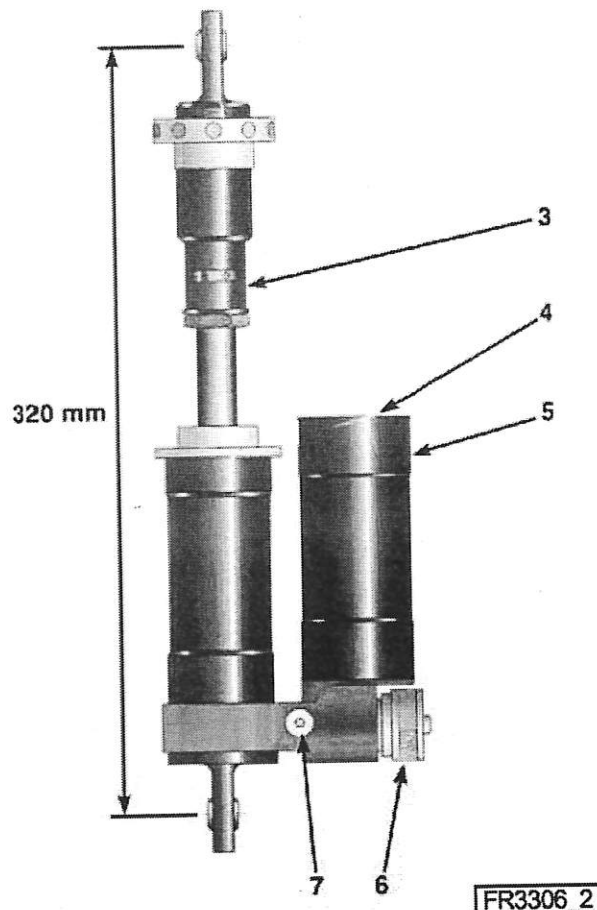
- Turn knurled knob until it abuts in the clockwise direction = hard compression.
- Turn knurled knob until it abuts in the counter clockwise direction (24 clicks) = flexible compression.

NOTA: It is possible that there will be more than 24 clicks when turning the knurled knob in this direction. After 24 clicks, there is no change in the setting.

Rebound

- Turn regulator until it abuts in the clockwise direction = hard rebound.
- Turn regulator until it abuts in the counter clockwise direction (24 clicks) = flexible rebound.

NOTA: If the regulator notches are not accessible, slightly turn end fitting to bring them opposite the window. Make sure that dimension between middle of the two ball joints is 320mm.



REAR AXLE ASSEMBLY

Spring-Damper set

PRESSURE CHECK

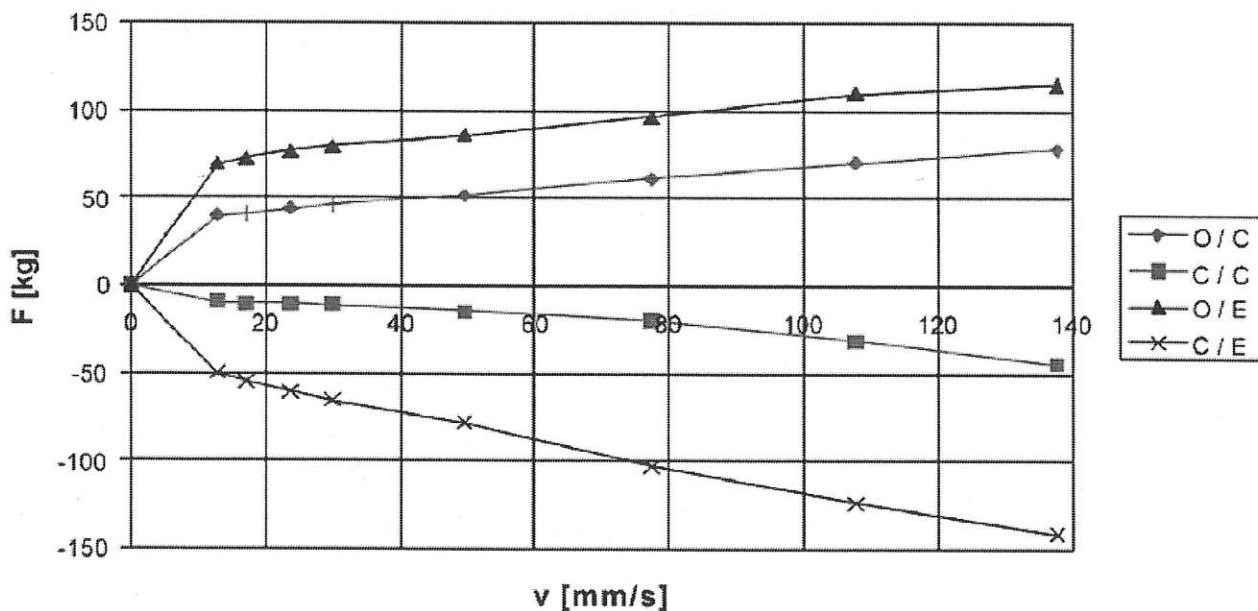
- Remove damper. Lock it in place in a vice.
- Remove screws in reservoir. Connect pressure gauge.
- Check that pressure in reservoir is between 8 and 8.5bar. If necessary, adjust pressure.

NOTA: Make sure to take the pressure loss of 0.5 to 1bar in the measuring instrument into account.

V [MM/S]	F [KGF]			
	C/ O	D/ O	C/ F	D/ F
12.9	39.5	-9.5	68.9	-49.9
17.22	40.8	-10	72.6	-54.9
23.67	44	- 10.4	76.7	- 60.3
30.12	46.3	- 10.9	79.4	- 65.3
49.48	51.7	- 14.1	86.2	-78
77.42	61.2	- 19.5	96.6	- 103
107.54	70.3	-31.3	109.68	- 123.8
137.67	78	-44.5	115.2	-141.1

C/O = Open compression, C/F = Closed compression, D/O = Open expansion, D/F = Closed expansion.

REAR DAMPER



FR3307_1

MAINTENANCE

- Wash damper with soap and water. Use of petrol, gasoline and solvents are forbidden.
- Change oil for the first time at 2500km, then after that, every 4000km.

NOTA: It is compulsory to use the oil recommended by the damper manufacturer. Ref.: 152.

DISASSEMBLY/ASSEMBLY

Disassembly of damper

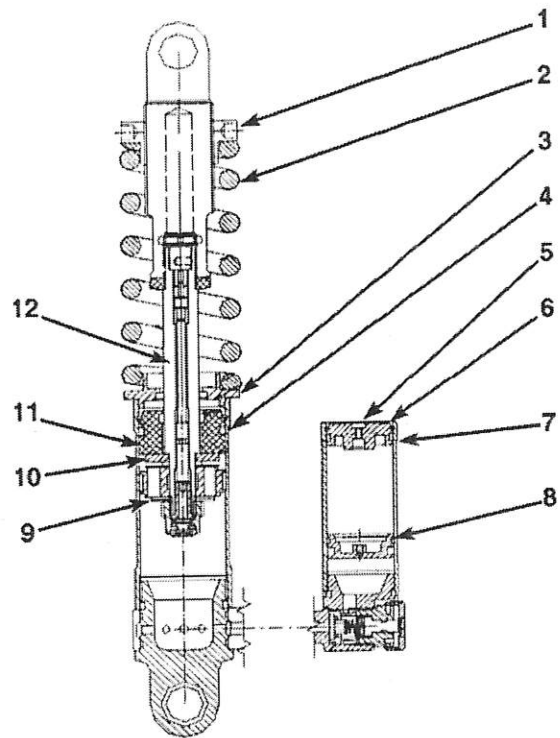
- Remove nut (1). Take out spring (2).
- Turn compression knurled knob until it about in the counter clockwise direction.
- Turn rebound regulator until it about in the counter clockwise direction.
- Remove screw (5). Bleed gas off reservoir.

IMPORTANT: Before disassembly, make sure that damper is no longer pressurized. The reservoir is correctly discharged if the bottom of the reservoir can be pushed up with fingers.

- Use rubber mallet to remove seat (3).
- Push guide (11) to gain access to snap ring (4).
- Remove snap ring.
- Separate top of damper casing.
- Drain oil. Unscrew rod (12) in top of damper.

Disassembly of gas separator

- Push plug (6) to gain access to snap ring (7).
- Remove snap ring.
- Remove plug (6).
- Remove separator (8).



REAR AXLE ASSEMBLY

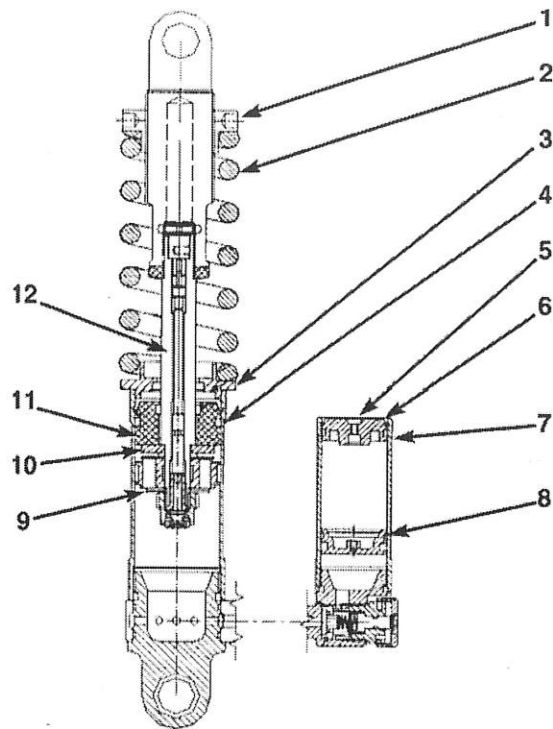
Spring-Damper set

33

Assembly

- Follow removal steps in the reverse order.
- Install compression shims (9) and rebound shims (10) as shown in the table below.

SHIM	COMPRESSION	REBOUND
1	Thickness: 0,2mm Diameter: 34mm	Thickness: 0,2mm Diameter: 32mm
2	Thickness: 0,2mm Diameter: 30mm	Thickness: 0,3mm Diameter: 26mm
2	With ring: Thickness: 0,3mm Inside diameter: 30mm Outside diameter: 34mm	
3	Thickness: 0,2mm Diameter: 34mm	Thickness: 0,3mm Diameter: 24mm
4	Washer: Diameter: 18mm Sharp angle towards shims	Thickness: 0,25mm Diameter: 32mm
5		Thickness: 0,3mm Diameter: 20mm
6		Washer: Diameter: 18mm Sharp angle towards shims



- Clean interior of damper.
- Fill casing of damper with oil, up to the edge. It is compulsory to use the oil recommended by the damper manufacturer.
- Lubricate separator O-ring (8) with silicon grease, then insert separator O-ring in reservoir.
- Completely unscrew rebound regulator.
- Wait until oil no longer emulsifies and install rod (12). Completely close compression regulator.
- Push rod (12) firmly. Wait a moment, and then pull it without letting any air in. Repeat this step two or three times.
- Pull rod and add oil. The level should come up to the throat of the snap ring (4).
- Fit guide (11), checking that a thin stream of oil flows
- Before its seal is in the cylinder.
- Open compression regulator.
- Push guide (11) to release snap ring throat.
- Snap ring (4) insert
- Lubricate separate seal (8). Install separator.
- Fit snap ring (7).
- Build pressure back up in reservoir, to 8 or 9bar.
- Insert plug (6) and seat (3).

REAR AXLE ASSEMBLY

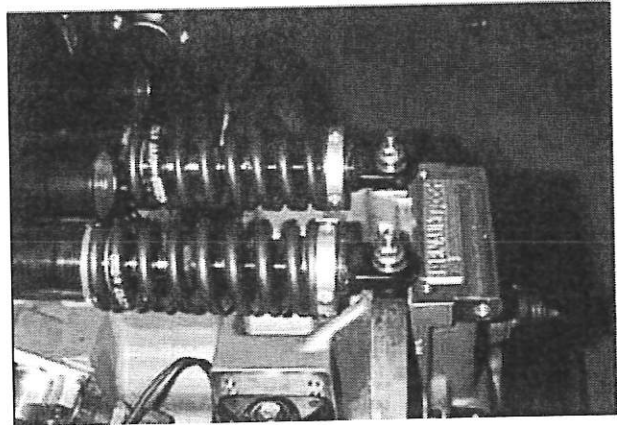
Spring-Damper set

33

SPRING

Table for various springs available.

STIFFNESS EN LB/IN	STIFFNESS EN KG/MM
700	12,40
800	14,17
900	15,49
1000	17,72
1100	19,49
1200	21,26



WHEELS

Material: aluminium.

Weight :

- Front wheel : 5,3kg
- Rear wheel : 5,6kg

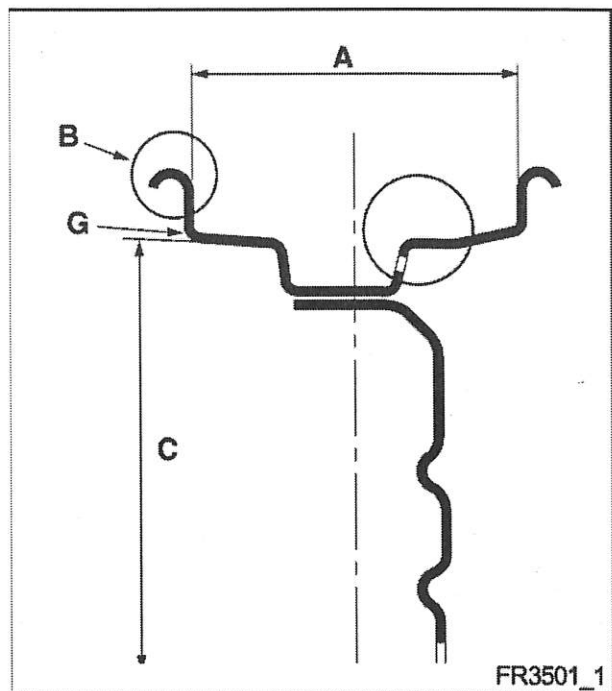
		A	B	C
	TYPE OF WHEEL	WIDTH (INCHES)	RIM EDGE PROFILE	Ø NOMINAL (IN INCHES) UNDER TYRE BEAD
FRONT WHEEL	8Jx13	8	J	13
REAR WHEEL	10Jx13	10	J	13

Maximum run-out: 1.2mm measure on rim edge (G).

Maximum out of round: 0.8mm measured on tyre bead mating face.

Precautions to avoid the slow losses of pressure :

- The valves of wheels must be changed at least once during the season,
- The valve caps must be in place.



ATTACHMENT

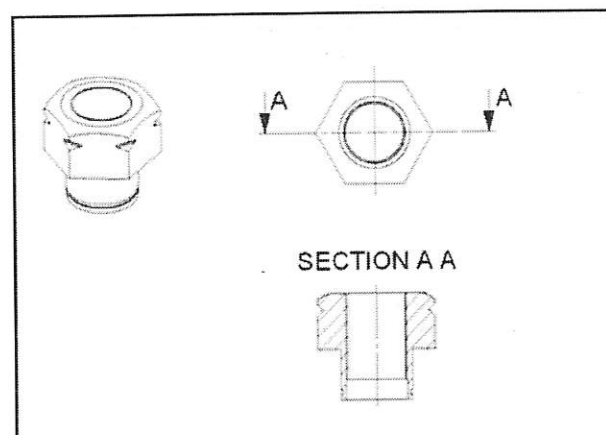
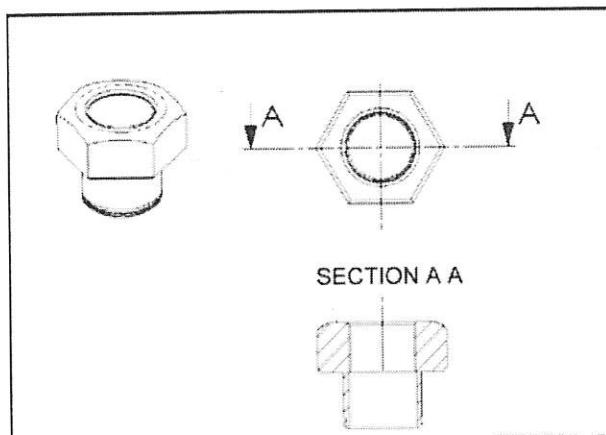
Type : central

Nuts: To improve the reliability and the safety of use of the Formula Renault 2.0, a new type of wheel nut has been specified.

Tightening torque: 130N.m

Former type P/N. 01 00 07 033

New type: P/N. 77 11 154 881



Left hand threads wheel nut assembly.

The kit is available at Renault Sport Spare Parts department at the reference 77 11 154 948.

The kit is composed with: the wheel pin and the wheel nut assembly (left thread nut + aluminium belt marked left).

TIRES

Michelin tubeless tyres.

		SLICK	RAIN
TYPE	Front	FR 2.0 or S210, according to regulation	P220
	Rear	FR 2.0 or S210, according to regulation	P220
SIZE	Front	16x53x13	16x53x13
	Rear	23x57x13	23x57x13
HOT INFLATING PRESSURE	Front	1,45bar	1,45bar
	Rear	1,6bar	1,6bar
WEIGHT	Front	6,14kg	6,12kg
	Rear	8,14kg	8,24kg

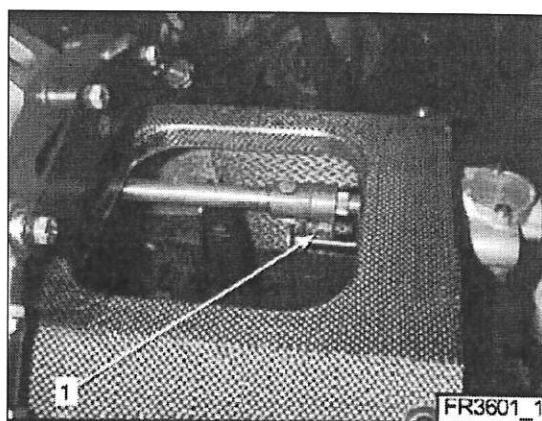
TIGHTENING TORQUES (ENN.M)

- Axial ball joint: 5
- Ball joint nut: 3,5
- Alignment adjustment sleeve screw: 2
- Rack mounting screw: 9,5

REPLACEMENT

Removal

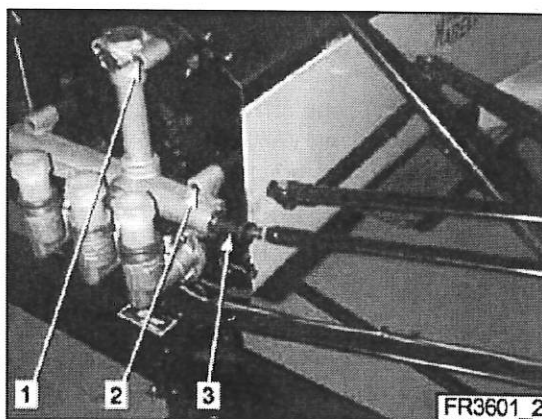
- Unscrew screw (1) on steering column.



- Disconnect left and right ball joints (3).
- Remove the two top screws (1) and the four bottom screws (2), then take out rack.

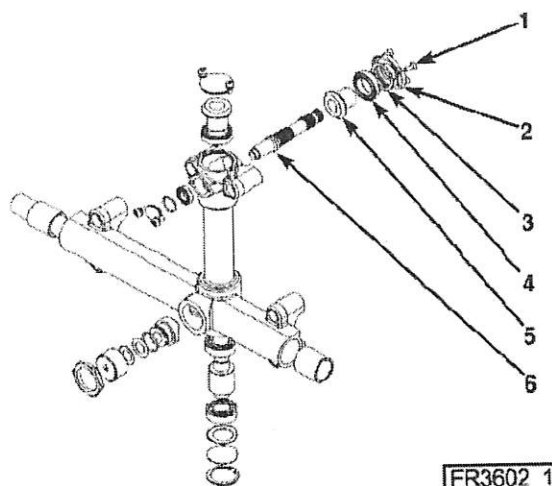
Installation

- Repeat removal steps in reverse order.
- Observe tightening torques.



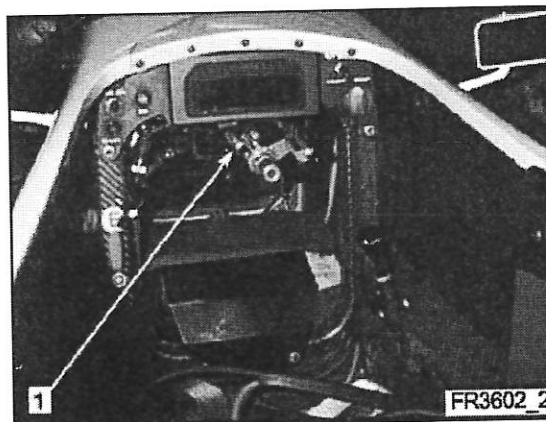
REPLACEMENT OF INPUT SHAFT

- Remove the four screws (1), and then take out flange (2) and shims (3).
- Take out input shaft assembly (6).
- Take out bearing shaft (5) and remove roller bearing (4).
- Install bearing housing (5) on shaft (6). Make sure that bearing housing is abutted onto shoulder of shaft.
- Install roller bearing (4) on bearing housing (5).
- Install input shaft assembly on rack.
- Insert shims (3) in flange (2) and fasten flange to rack with screws (1).
- Check that there is no play. Make sure that there is a slight prestress on the mounting and that the clearance of the rack is from stop to stop, without jerks.
- If necessary, adjust with shims (3).



INSPECTION OF STEERING COLUMN MOUNTING

- Check mounting (1) regularly as well as after each impact with product type «Ardrox».
- Replace mounting if it is cracked.



STEERING WHEEL PLAY CONTROL

If the play in the steering wheel is important, one can rotate the pinion by 180°, so that the pinion uses new teeth.

MASTER CYLINDER

TIGHTENING TORQUES (in N.m)

Banjo fittings: 13

Master cylinder mounting nuts: 23

Characteristics

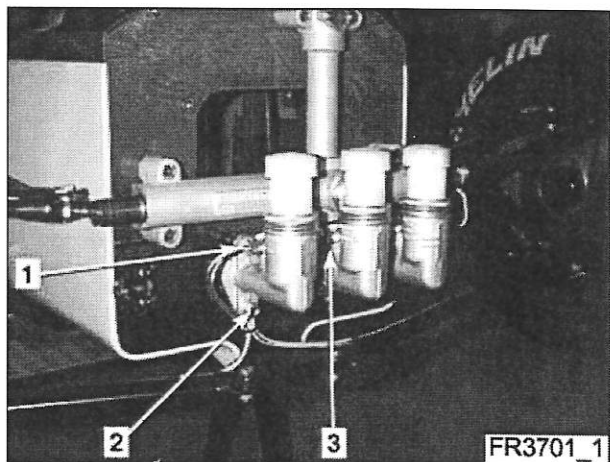
- Diameter of master cylinders :
 - front brake : 5/8",
 - rear brake: 3/4".
- Brake Fluid: DOT5.
- Repair kit part number:
 - front brake master cylinder: 77 11 150 526,
 - rear brake master cylinder: 77 11 150 527.

Removal

- Remove screws fastening banjo fitting (1) for front brake master cylinder or (3) for rear brake master cylinder (provide for outflow of brake fluid).
- Remove the two nuts (2) and take out master cylinder.

Installation

- Repeat disassembly steps in reverse order.
- Observe braking torques.
- Bleed brake lines.

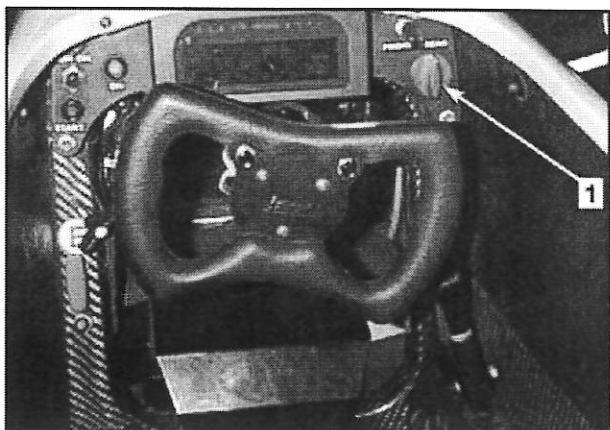


BRAKE PROPORTIONING DEVICE

Functioning

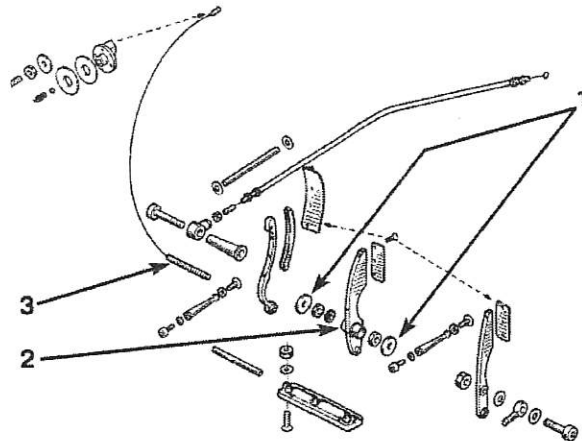
The driver can adjust the brake-proportioning device from his or her seat.

- Turn control (1) in clockwise direction to increase braking on rear and decrease it on front.
- Turn control (1) in counter clockwise direction to decrease braking on rear and increase it on front.



Replacement

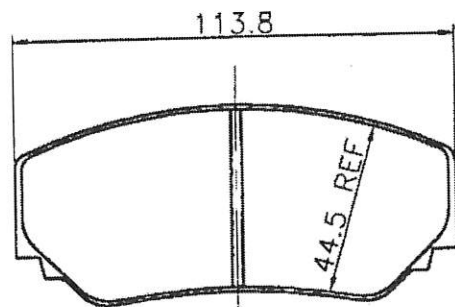
- Bring ball joint (2) to middle of threading (3).
- Check that assembly is free moving. The washers (1) should not be tight.



BRAKE PADS

The quality of the linings is open, on condition of maintaining the original friction surfaces (see figure opposite).

- Thickness of pads: 16mm.
- Brake fluid: DOT5.
- Example of types of pads:
 - FERODO 4003F (type mounted on mass-produced models),
 - FERODO RACING FRP 219 R,
 - PAGID blue type U2127RS4/2.



CALLIPERS

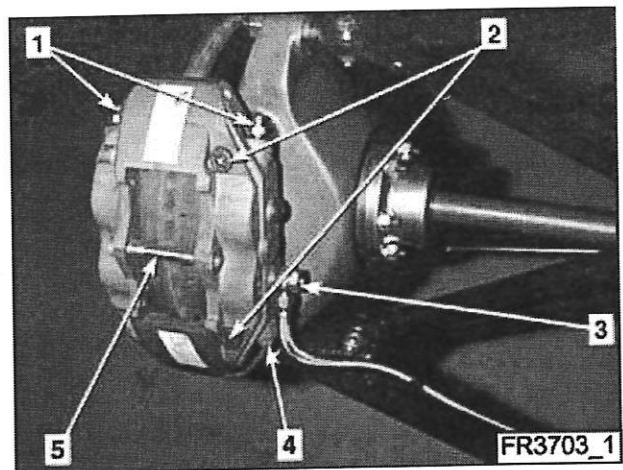
TIGHTENING TORQUES (in N.m)

- Calliper mounting screw (2): 45
- Wheel bolts: 130
- Banjo fitting (3): 15
- Connecting tube connector (4) : 14
- Bleed screw (1):
 - hot: 14
 - cold: 18
- Carrier screw (5): 12

NOTA: The callipers should be rebuilt: at least once, at the end of the season, every time the calliper has undergone extremely high temperature stress.

Characteristics

- Bottom piston diameter: 34,9mm.
- Top piston diameter: 31,8mm +0,2
- Springs setting: 2kg – 0,25



General instructions

- Drive back pistons with suitable clamps so as not to change geometry or leave chips likely to nick seals.
- Do not tighten bleed screw (1) to too high of a torque so as not to damage the tapered bearing surface (risk of leaks).
- Systematically replace damaged hydraulic lines.
- Observe torque of carrier screw (5): risk of deforming calliper.

Maintenance

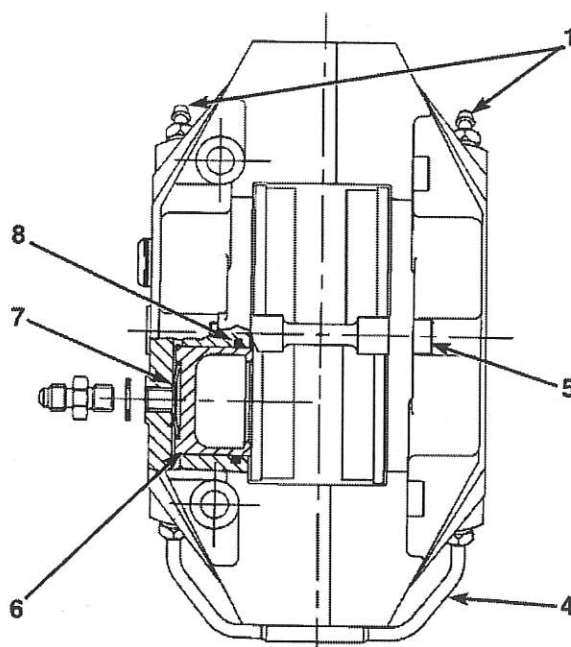
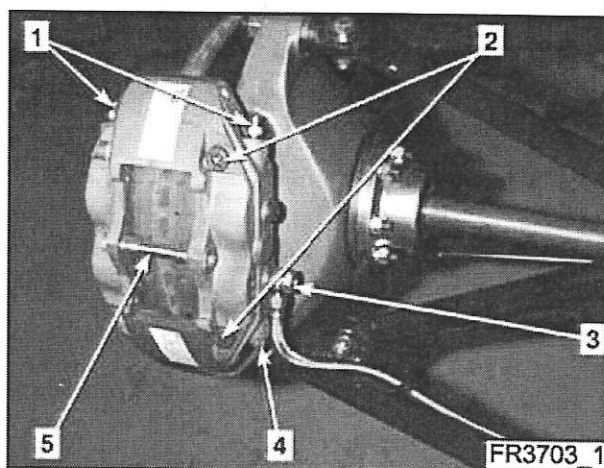
IMPORTANT: Take the necessary precautions so that no chemical products contaminate the brake system components. Never try to separate the two parts of a calliper.

- Clean callipers with a brake-cleaning product. Remove carrier (5) and brake pads.
- Remove screws (2) fastening calliper to hub carrier. Remove calliper, making sure not to twist or deform hydraulic lines.
- Place a recipient capable of holding the brake fluid contained in calliper under the calliper. Gently actuate brake pedal to extract pistons, and then remove them by hand.
- Disconnect banjo fitting (3).
- Use a soft tool to take out seals (8), making sure not to scratch throats and bores. Throw away seals.
- Clean interior of calliper with brake fluid. Dry it. Check that there are no signs of wear or corrosion on the pistons (6) and in bores.
- Systematically replace all parts that are deeply scratched or marked.
- Lubricate seals (8) and pistons (6). Use ONLY the grease supplied in the repair kits.

NOTA: It is normal that the inside diameter of the seals (8) is greater than the inside diameter of the pistons (6).

- Unscrew bleed screws (1). Reinsert seals (8), pistons (6) and springs (7) carefully so as not to pinch seals.

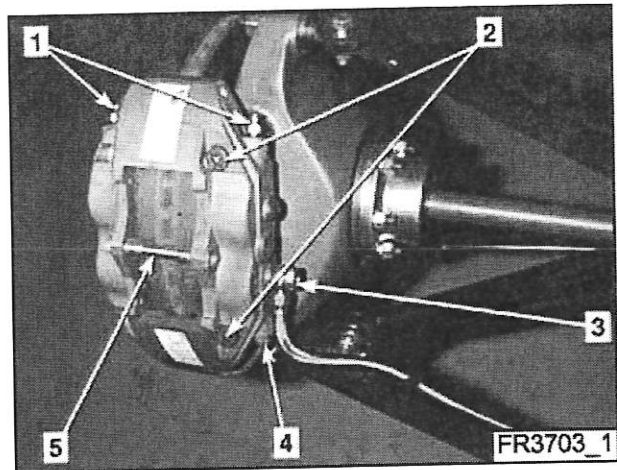
NOTA: Only install new seals.



- Tighten bleed screws (1).
- Install calliper, pads and carrier.
- Observe recommended tightening torques.
- Fit banjo fitting (3) with a new copper gasket. Connect fitting.
- Bleed lines completely. Adjust level in master cylinder reservoir, using suitable brake fluid.

IMPORTANT: Check that there are no leaks before using the vehicle.

NOTA: To make interventions easier, a fast coupler can be installed on the rear brakes circuit.

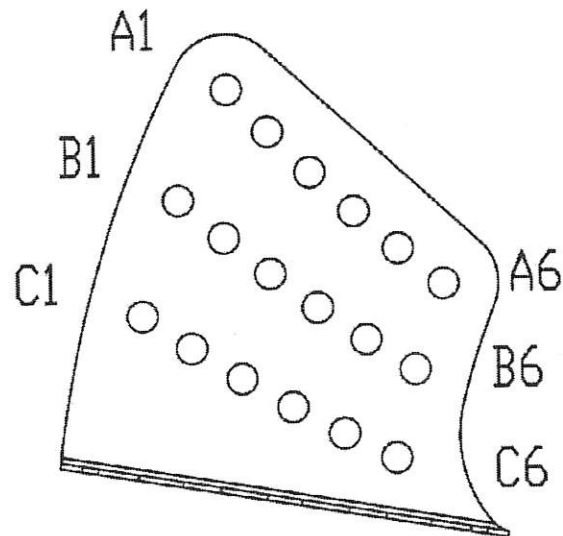
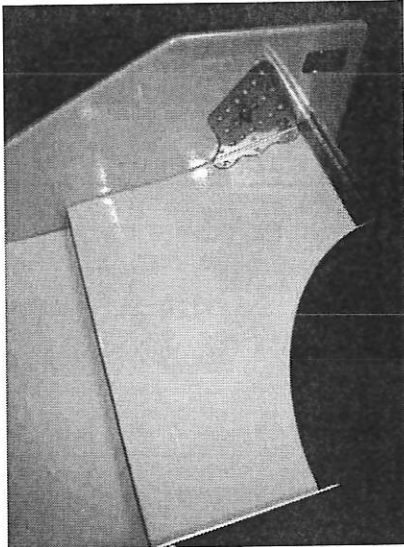


RECOMMANDATION

For safety reasons, check the silicone protection inside the throttle cable conduit does not go ahead of the conduit stop, near the pedal. If it does, cut the silicone protection just ahead of the conduit stop.

FRONT WING

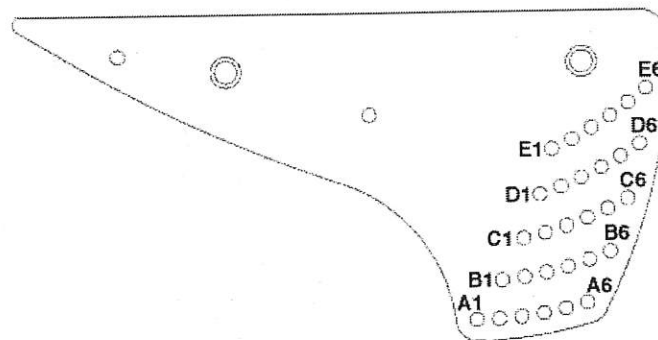
Front wing angle of incidence is modified by changing the position of its fasteners. Changing from one fastening hole to the juxtaposed hole varies the angle of incidence according to the following table.



AVANT	1	2	3	4	5	6
A	8.8	9.2	9.7	10.1	10.6	11.0
B	11.5	11.9	12.4	12.8	13.3	13.7
C	14.2	14.7	15.1	15.6	16.0	16.5

REAR WING

Rear wing angle of incidence is modified by changing the position of its fasteners. Changing from one fastening hole to the juxtaposed hole varies the angle of incidence according to the following table.



ARRIERE	1	2	3	4	5	6
A	0	1	2	3	4	5
B	6	7	8	9	10	11
C	12	13	14	15	16	17
D	18	19	20	21	22	23
E	24	25	26	27	28	29