

CHASSIS

Suspension adjustment Tables

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REAR AXLE ASSEMBLY

Position of Suspension wishbones: 25 AE

Loaded wheel/tyre assembly radius	283,92mm
Initial setting	
- Camber	- 5°
- Alignment	0°
- 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 bar, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Bottom point, tipper pivot axis	21.900	125.030	355.640
9	Top point, tipper pivot axis	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, gearbox side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, gearbox side	-110.490	105.500	162.300
16	Front fastener, top Suspension wishbone, gearbox side	214.300	106.440	348.080
17	Rear fastener, top Suspension wishbone, gearbox side	-214.300	106.440	350.470
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	Rear damper fastening point	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Motion ratio	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-div e angle	0,683°
Anti-dive	9,280%

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Suspension adjustment Tables

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REAR AXLE ASSEMBLY

Position of Suspension wishbones: 26 AE

Loaded wheel/tyre assembly radius	283,92mm
Initial setting	
- Camber	- 5°
- Alignment	0°
- 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 bar, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Bottom point, tipper pivot axis	21.900	125.030	355.640
9	Top point, tipper pivot axis	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, gearbox side	264.300	105.500	168.500
15	Rear fastener, bottom Suspension wishbone, gearbox side	-110.490	105.500	162.300
16	Front fastener, top Suspension wishbone, gearbox side	214.300	106.440	348.080
17	Rear fastener, top Suspension wishbone, gearbox side	-214.300	106.440	350.470
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	Rear damper fastening point	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Motion ratio	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	- 4.24	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-div e angle	0,128°
Anti-dive	1,736%

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Suspension adjustment Tables

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REAR AXLE ASSEMBLY

Position of Suspension wishbones: 26 AF

Loaded wheel/tyre assembly radius	283,92mm
Initial setting	
- Camber	- 5°
- Alignment	0°
- 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 bar, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Bottom point, tipper pivot axis	21.900	125.030	355.640
9	Top point, tipper pivot axis	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, gearbox side	264.300	105.500	168.500
15	Rear fastener, bottom Suspension wishbone, gearbox side	-110.490	105.500	162.300
16	Front fastener, top Suspension wishbone, gearbox side	214.300	106.440	338.080
17	Rear fastener, top Suspension wishbone, gearbox side	-214.300	106.440	350.470
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	Rear damper fastening point	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Motion ratio	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-div e angle	-0,784°
Anti-dive	-10,643%

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Suspension adjustment Tables

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REAR AXLE ASSEMBLY

Position of Suspension wishbones: 26 BF

Loaded wheel/tyre assembly radius	283,92mm
Initial setting	
- Camber	- 5°
- Alignment	0°
- 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 bar, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Bottom point, tipper pivot axis	21.900	125.030	355.640
9	Top point, tipper pivot axis	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, gearbox side	264.300	105.500	168.500
15	Rear fastener, bottom Suspension wishbone, gearbox side	-110.490	105.500	162.300
16	Front fastener, top Suspension wishbone, gearbox side	214.300	106.440	338.080
17	Rear fastener, top Suspension wishbone, gearbox side	-214.300	106.440	340.470
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	Rear damper fastening point	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Motion ratio	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-div e angle	0,081°
Anti-dive	1,100%

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Suspension adjustment Tables

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REAR AXLE ASSEMBLY

Position of Suspension wishbones: 26 BG

Loaded wheel/tyre assembly radius	283,92mm
Initial setting	
- Camber	- 5°
- Alignment	0°
- 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 bar, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
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13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, gearbox side	264.300	105.500	168.500
15	Rear fastener, bottom Suspension wishbone, gearbox side	-110.490	105.500	162.300
16	Front fastener, top Suspension wishbone, gearbox side	214.300	106.440	328.080
17	Rear fastener, top Suspension wishbone, gearbox side	-214.300	106.440	340.470
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	Rear damper fastening point	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Motion ratio	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-div e angle	-0,886°
Anti-dive	-12,025%

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Suspension adjustment Tables

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REAR AXLE ASSEMBLY

Position of Suspension wishbones: 26 CH

Loaded wheel/tyre assembly radius	283,92mm
Initial setting	
- Camber	- 5°
- Alignment	0°
- body height (height between pads and ground):	
•Front	25mm
•Rear	35mm

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16	Front fastener, top Suspension wishbone, gearbox side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, gearbox 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
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Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Motion ratio	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-div e angle	-1,000°
Anti-dive	-13,579%

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Suspension adjustment Tables

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REAR AXLE ASSEMBLY

Position of Suspension wishbones: 26 CG

Loaded wheel/tyre assembly radius	283,92mm
Initial setting	
- Camber	- 5°
- Alignment	0°
- 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 bar, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Bottom point, tipper pivot axis	21.900	125.030	355.640
9	Top point, tipper pivot axis	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, gearbox side	264.300	105.500	168.500
15	Rear fastener, bottom Suspension wishbone, gearbox side	-110.490	105.500	162.300
16	Front fastener, top Suspension wishbone, gearbox side	214.300	106.440	328.080
17	Rear fastener, top Suspension wishbone, gearbox 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	Rear damper fastening point	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Motion ratio	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-div e angle	0,029°
Anti-dive	0,388%

CHASSIS

Suspension adjustment Tables

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REAR AXLE ASSEMBLY

Position of Suspension wishbones: 24 CG

Loaded wheel/tyre assembly radius	283,92mm
Initial setting	
- Camber	- 5°
- Alignment	0°
- 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 bar, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Bottom point, tipper pivot axis	21.900	125.030	355.640
9	Top point, tipper pivot axis	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, gearbox side	264.300	105.500	188.500
15	Rear fastener, bottom Suspension wishbone, gearbox side	-110.490	105.500	162.300
16	Front fastener, top Suspension wishbone, gearbox side	214.300	106.440	328.080
17	Rear fastener, top Suspension wishbone, gearbox 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	Rear damper fastening point	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Motion ratio	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-div e angle	0,912°
Anti-dive	12,386%

CHASSIS

Suspension adjustment Tables

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REAR AXLE ASSEMBLY

Position of Suspension wishbones: 24 CH

Loaded wheel/tyre assembly radius	283,92mm
Initial setting	
- Camber	- 5°
- Alignment	0°
- 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 bar, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Bottom point, tipper pivot axis	21.900	125.030	355.640
9	Top point, tipper pivot axis	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, gearbox side	264.300	105.500	188.500
15	Rear fastener, bottom Suspension wishbone, gearbox side	-110.490	105.500	162.300
16	Front fastener, top Suspension wishbone, gearbox side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, gearbox 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	Rear damper fastening point	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Motion ratio	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	0.29	113.34	341.13	1.628	- 1.13	-4.06	20.67	16.06	16.04	147.24
-25.00	- 3.97	0.25	107.64	337.98	1.573	-0.94	- 3.28	20.57	16.26	16.04	146.62
-20.00	- 4.17	0.20	101.94	334.72	1.517	-0.76	- 2.54	20.48	16.46	16.04	146.01
-15.00	- 4.38	0.15	96.25	331.34	1.461	-0.57	- 1.84	20.39	16.67	16.04	145.40
-10.00	-4.58	0.10	90.57	327.82	1.404	-0.38	- 1.18	20.30	16.88	16.04	144.79
-5.00	- 4.79	0.05	84.89	324.16	1.346	-0.19	- 0.57	20.20	17.08	16.04	144.19
0.00	- 5.00	0.00	79.22	320.34	1.287	0.00	0.00	20.11	17.29	16.04	143.59
5.00	- 5.21	- 0.06	73.55	316.34	1.226	0.19	0.53	20.02	17.50	16.04	143.00
10.00	-5.42	-0.11	67.89	312.13	1.164	0.39	1.01	19.93	17.71	16.04	142.41
15.00	- 5.64	- 0.17	62.24	307.69	1.099	0.59	1.46	19.84	17.93	16.03	141.83
20.00	- 5.85	- 0.23	56.59	302.97	1.031	0.79	1.86	19.75	18.14	16.03	141.25
25.00	- 6.07	- 0.30	50.95	297.92	0.958	0.99	2.21	19.66	18.36	16.02	140.67
30.00	- 6.28	- 0.36	45.32	292.45	0.880	1.19	2.53	19.57	18.58	16.01	140.10

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-di ve angle	-0,175°
Anti-dive	-2,378%

CHASSIS

Suspension adjustment Tables

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REAR AXLE ASSEMBLY

Position of Suspension wishbones: 24 BG

Loaded wheel/tyre assembly radius	283,92mm
Initial setting	
- Camber	- 5°
- Alignment	0°
- 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 bar, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Bottom point, tipper pivot axis	21.900	125.030	355.640
9	Top point, tipper pivot axis	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, gearbox side	264.300	105.500	188.500
15	Rear fastener, bottom Suspension wishbone, gearbox side	-110.490	105.500	152.300
16	Front fastener, top Suspension wishbone, gearbox side	214.300	106.440	328.080
17	Rear fastener, top Suspension wishbone, gearbox side	-214.300	106.440	340.470
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	Rear damper fastening point	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Motion ratio	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-div e angle	0,079°
Anti-dive	1,078%

CHASSIS

Suspension adjustment Tables

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REAR AXLE ASSEMBLY

Position of Suspension wishbones: 24 BF

Loaded wheel/tyre assembly radius	283,92mm
Initial setting	
- Camber	- 5°
- Alignment	0°
- 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 bar, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Bottom point, tipper pivot axis	21.900	125.030	355.640
9	Top point, tipper pivot axis	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, gearbox side	264.300	105.500	188.500
15	Rear fastener, bottom Suspension wishbone, gearbox side	-110.490	105.500	162.300
16	Front fastener, top Suspension wishbone, gearbox side	214.300	106.440	338.080
17	Rear fastener, top Suspension wishbone, gearbox side	-214.300	106.440	340.470
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	Rear damper fastening point	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Motion ratio	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

Wheelbase (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-div e angle	1,095°
Anti-dive	14,867%

CHASSIS

Suspension adjustment Tables

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REAR AXLE ASSEMBLY

Position of Suspension wishbones: 24 AF

Loaded wheel/tyre assembly radius	283,92mm
Initial setting	
- Camber	- 5°
- Alignment	0°
- 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 bar, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Bottom point, tipper pivot axis	21.900	125.030	355.640
9	Top point, tipper pivot axis	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, gearbox side	264.300	105.500	188.500
15	Rear fastener, bottom Suspension wishbone, gearbox side	-110.490	105.500	162.300
16	Front fastener, top Suspension wishbone, gearbox side	214.300	106.440	338.080
17	Rear fastener, top Suspension wishbone, gearbox side	-214.300	106.440	350.470
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	Rear damper fastening point	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Motion ratio	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-div e angle	0,305°
Anti-dive	4,137%

CHASSIS

Suspension adjustment Tables

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REAR AXLE ASSEMBLY

Position of Suspension wishbones: 24 AE

Loaded wheel/tyre assembly radius	283,92mm
Initial setting	
- Camber	- 5°
- Alignment	0°
- 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 bar, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Bottom point, tipper pivot axis	21.900	125.030	355.640
9	Top point, tipper pivot axis	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, gearbox side	264.300	105.500	188.500
15	Rear fastener, bottom Suspension wishbone, gearbox side	-110.490	105.500	162.300
16	Front fastener, top Suspension wishbone, gearbox side	214.300	106.440	348.080
17	Rear fastener, top Suspension wishbone, gearbox side	-214.300	106.440	350.470
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	Rear damper fastening point	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Motion ratio	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

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REAR AXLE ASSEMBLY

Position of Suspension wishbones: 14 AE

Loaded wheel/tyre assembly radius	283,92mm
Initial setting	
- Camber	- 5°
- Alignment	0°
- 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 bar, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Bottom point, tipper pivot axis	21.900	125.030	355.640
9	Top point, tipper pivot axis	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, gearbox side	264.300	105.500	188.500
15	Rear fastener, bottom Suspension wishbone, gearbox side	-110.490	105.500	172.300
16	Front fastener, top Suspension wishbone, gearbox side	214.300	106.440	348.080
17	Rear fastener, top Suspension wishbone, gearbox side	-214.300	106.440	350.470
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	Rear damper fastening point	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Motion ratio	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

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REAR AXLE ASSEMBLY

Position of Suspension wishbones: 14 AF

Loaded wheel/tyre assembly radius	283,92mm
Initial setting	
- Camber	- 5°
- Alignment	0°
- 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 bar, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Bottom point, tipper pivot axis	21.900	125.030	355.640
9	Top point, tipper pivot axis	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, gearbox side	264.300	105.500	188.500
15	Rear fastener, bottom Suspension wishbone, gearbox side	-110.490	105.500	172.300
16	Front fastener, top Suspension wishbone, gearbox side	214.300	106.440	338.080
17	Rear fastener, top Suspension wishbone, gearbox side	-214.300	106.440	350.470
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	Rear damper fastening point	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Motion ratio	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-div e angle	-0,164°
Anti-dive	-2,233%

CHASSIS

Suspension adjustment Tables

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REAR AXLE ASSEMBLY

Position of Suspension wishbones: 14 BF

Loaded wheel/tyre assembly radius	283,92mm
Initial setting	
- Camber	- 5°
- Alignment	0°
- 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 bar, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Bottom point, tipper pivot axis	21.900	125.030	355.640
9	Top point, tipper pivot axis	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, gearbox side	264.300	105.500	188.500
15	Rear fastener, bottom Suspension wishbone, gearbox side	-110.490	105.500	172.300
16	Front fastener, top Suspension wishbone, gearbox side	214.300	106.440	338.080
17	Rear fastener, top Suspension wishbone, gearbox side	-214.300	106.440	340.470
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	Rear damper fastening point	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Motion ratio	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-div e angle	0,635°
Anti-dive	8,618%

CHASSIS

Suspension adjustment Tables

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REAR AXLE ASSEMBLY

Position of Suspension wishbones: 14 BG

Loaded wheel/tyre assembly radius	283,92mm
Initial setting	
- Camber	- 5°
- Alignment	0°
- 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 bar, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Bottom point, tipper pivot axis	21.900	125.030	355.640
9	Top point, tipper pivot axis	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, gearbox side	264.300	105.500	188.500
15	Rear fastener, bottom Suspension wishbone, gearbox side	-110.490	105.500	172.300
16	Front fastener, top Suspension wishbone, gearbox side	214.300	106.440	328.080
17	Rear fastener, top Suspension wishbone, gearbox side	-214.300	106.440	340.470
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	Rear damper fastening point	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Motion ratio	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

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REAR AXLE ASSEMBLY

Position of Suspension wishbones: 14 CH

Loaded wheel/tyre assembly radius	283,92mm
Initial setting	
- Camber	- 5°
- Alignment	0°
- 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 bar, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Bottom point, tipper pivot axis	21.900	125.030	355.640
9	Top point, tipper pivot axis	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, gearbox side	264.300	105.500	188.500
15	Rear fastener, bottom Suspension wishbone, gearbox side	-110.490	105.500	172.300
16	Front fastener, top Suspension wishbone, gearbox side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, gearbox 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	Rear damper fastening point	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Motion ratio	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

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REAR AXLE ASSEMBLY

Position of Suspension wishbones: 14 CG

Loaded wheel/tyre assembly radius	283,92mm
Initial setting	
- Camber	- 5°
- Alignment	0°
- 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 bar, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Bottom point, tipper pivot axis	21.900	125.030	355.640
9	Top point, tipper pivot axis	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, gearbox side	264.300	105.500	188.500
15	Rear fastener, bottom Suspension wishbone, gearbox side	-110.490	105.500	172.300
16	Front fastener, top Suspension wishbone, gearbox side	214.300	106.440	328.080
17	Rear fastener, top Suspension wishbone, gearbox 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	Rear damper fastening point	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Motion ratio	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-div e angle	0,514°
Anti-dive	6,975%

CHASSIS

Suspension adjustment Tables

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REAR AXLE ASSEMBLY

Position of Suspension wishbones: 15 CG

Loaded wheel/tyre assembly radius	283,92mm
Initial setting	
- Camber	- 5°
- Alignment	0°
- 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 bar, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Bottom point, tipper pivot axis	21.900	125.030	355.640
9	Top point, tipper pivot axis	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, gearbox side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, gearbox side	-110.490	105.500	172.300
16	Front fastener, top Suspension wishbone, gearbox side	214.300	106.440	328.080
17	Rear fastener, top Suspension wishbone, gearbox 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	Rear damper fastening point	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Motion ratio	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

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REAR AXLE ASSEMBLY

Position of Suspension wishbones: 15 CH

Loaded wheel/tyre assembly radius	283,92mm
Initial setting	
- Camber	- 5°
- Alignment	0°
- 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 bar, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Bottom point, tipper pivot axis	21.900	125.030	355.640
9	Top point, tipper pivot axis	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, gearbox side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, gearbox side	-110.490	105.500	172.300
16	Front fastener, top Suspension wishbone, gearbox side	214.300	106.440	318.080
17	Rear fastener, top Suspension wishbone, gearbox 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	Rear damper fastening point	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Motion ratio	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-div e angle	-0,956°
Anti-dive	-12,986%

CHASSIS

Suspension adjustment Tables

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REAR AXLE ASSEMBLY

Position of Suspension wishbones: 15 BG

Loaded wheel/tyre assembly radius	283,92mm
Initial setting	
- Camber	- 5°
- Alignment	0°
- 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 bar, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Bottom point, tipper pivot axis	21.900	125.030	355.640
9	Top point, tipper pivot axis	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, gearbox side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, gearbox side	-110.490	105.500	172.300
16	Front fastener, top Suspension wishbone, gearbox side	214.300	106.440	328.080
17	Rear fastener, top Suspension wishbone, gearbox side	-214.300	106.440	340.470
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	Rear damper fastening point	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Motion ratio	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

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REAR AXLE ASSEMBLY

Position of Suspension wishbones: 15 BF

Loaded wheel/tyre assembly radius	283,92mm
Initial setting	
- Camber	- 5°
- Alignment	0°
- 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 bar, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Bottom point, tipper pivot axis	21.900	125.030	355.640
9	Top point, tipper pivot axis	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, gearbox side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, gearbox side	-110.490	105.500	172.300
16	Front fastener, top Suspension wishbone, gearbox side	214.300	106.440	338.080
17	Rear fastener, top Suspension wishbone, gearbox side	-214.300	106.440	340.470
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	Rear damper fastening point	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Motion ratio	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-div e angle	0,105°
Anti-dive	1,430%

CHASSIS

Suspension adjustment Tables

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REAR AXLE ASSEMBLY

Position of Suspension wishbones: 15 AF

Loaded wheel/tyre assembly radius	283,92mm
Initial setting	
- Camber	- 5°
- Alignment	0°
- 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 bar, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Bottom point, tipper pivot axis	21.900	125.030	355.640
9	Top point, tipper pivot axis	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, gearbox side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, gearbox side	-110.490	105.500	172.300
16	Front fastener, top Suspension wishbone, gearbox side	214.300	106.440	338.080
17	Rear fastener, top Suspension wishbone, gearbox side	-214.300	106.440	350.470
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	Rear damper fastening point	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Motion ratio	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-div e angle	-0,733°
Anti-dive	-9,947%

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Suspension adjustment Tables

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REAR AXLE ASSEMBLY

Position of Suspension wishbones: 15 AE

Loaded wheel/tyre assembly radius	283,92mm
Initial setting	
- Camber	- 5°
- Alignment	0°
- 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 bar, wheel side	- 69.160	583.780	170.130
6	Push-rod, wheel side	76.660	507.590	200.510
8	Bottom point, tipper pivot axis	21.900	125.030	355.640
9	Top point, tipper pivot axis	21.900	149.430	410.460
13	Damper fastening point on tipper	21.900	45.250	407.580
14	Front fastener, bottom Suspension wishbone, gearbox side	264.300	105.500	178.500
15	Rear fastener, bottom Suspension wishbone, gearbox side	-110.490	105.500	172.300
16	Front fastener, top Suspension wishbone, gearbox side	214.300	106.440	348.080
17	Rear fastener, top Suspension wishbone, gearbox side	-214.300	106.440	350.470
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	Rear damper fastening point	-297.970	47.630	390.340

Wheel deflec. mm	Camb. degree	Align. degree	CR mm	Spr. I. mm	Motion ratio	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-div e angle	0,153°
Anti-dive	2,083%

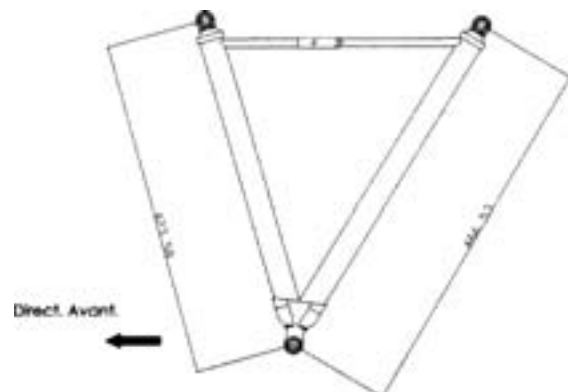
OVERVIEW

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).



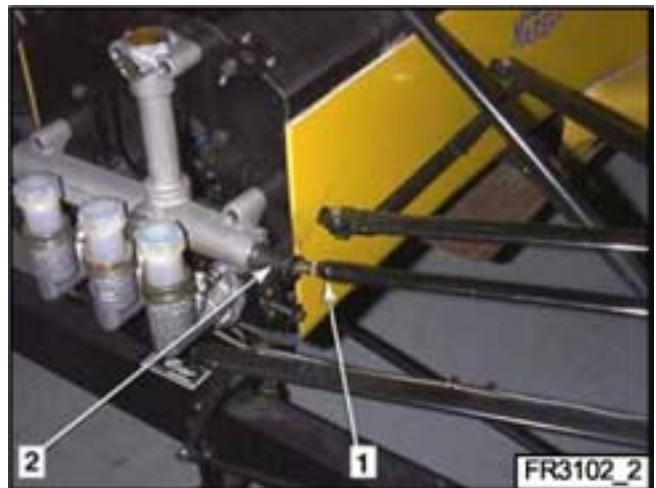
ALIGNMENT

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.



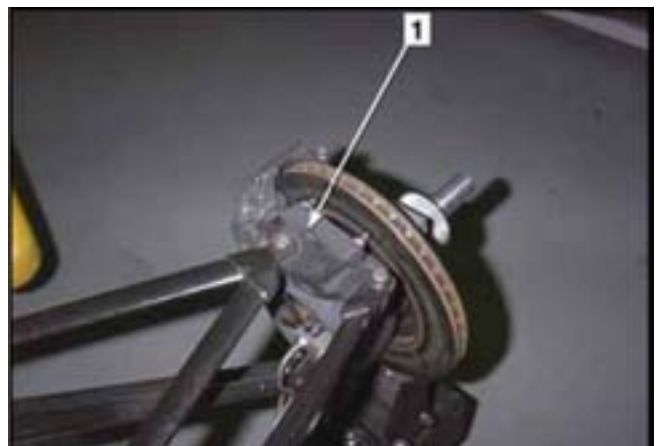
CAMBER

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

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

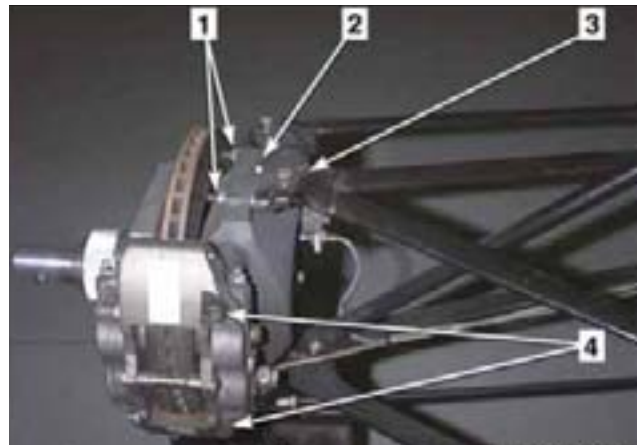
Two shim thickness are available:

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



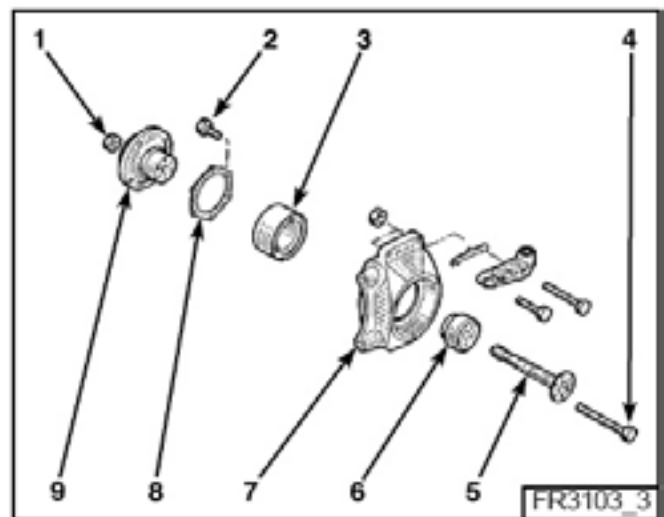
REMOVAL

- 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).



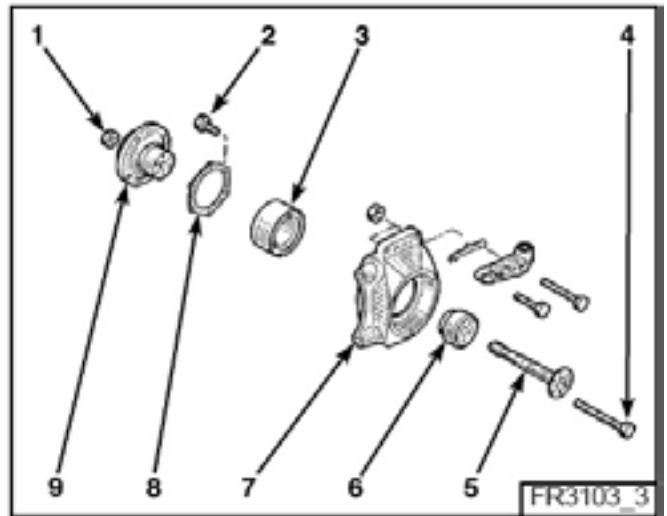
NOTA: The bearing should come out without having to use any tools.

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.

