Four-Wheel Drive (4WD) axle - General specification

Type	Steering, load bearing structure, pivoting at centre
Bevel gear pair - differential	
Pinion-crown gear ratio: 30 km/h (19 mph)	9/38 = 1:4.2
Backlash between bevel gear pair	0.150 - 0.200 mm (0.006 - 0.008 in)
Ratio between front wheel revs and rear wheel revs	1.386
Bevel drive and differential	33.000
Thickness of pinion bearing adjustment spacer	2.500 mm (0.098 in) - 2.550 mm (0.100 in) - 2.600 mm (0.102 in) - 2.650 mm (0.104 in) - 2.700 mm (0.106 in) - 2.750 mm (0.108 in) - 2.800 mm (0.110 in) - 2.850 mm (0.112 in) - 2.900 mm (0.114 in) - 2.950 mm (0.116 in) - 3.000 mm (0.118 in) - 3.050 mm (0.120 in) - 3.100 mm (0.122 in) - 3.150 mm (0.124 in) - 3.200 mm (0.126 in) - 3.300 mm (0.130 in) - 3.400 mm (0.134 in) - 3.450 mm (0.136 in) - 3.500 mm (0.138 in) - 3.550 mm (0.140 in) - 3.600 mm (0.142 in) - 3.650 mm (0.144 in) - 3.700 mm (0.146 in)
Thickness of crown wheel position adjustment spacer	2.500 mm (0.098 in) - 2.600 mm (0.102 in) - 2.700 mm (0.106 in) - 2.800 mm (0.110 in) - 2.900 mm (0.114 in) - 3.000 mm (0.118 in) - 3.100 mm (0.122 in) - 3.200 mm (0.126 in) - 3.300 mm (0.130 in) - 3.400 mm (0.134 in) - 3.500 mm (0.138 in) - 3.600 mm (0.142 in) - 3.700 mm (0.146 in)
Clearance between sides of planet and side pinion teeth	0.15 mm (0.01 in)
Thickness of planet pinion thrust washers	1.470 - 1.530 mm (0.058 - 0.060 in)
Thickness of side gear thrust washers	1.500 - 1.600 mm (0.059 - 0.063 in)
Diameter of cross pin for planet pinions	21 232 - 21 260 mm (0.864 - 0.865 in)
Side diameter cross pin bore diameter	22.040 - 22.061 mm (0.868 - 0.869 in)
Clearance between cross pin and bores	0.080 - 0.122 mm (0.003 - 0.005 in)
Diameter of outer axle shafts and corresponding	37.961 - 38.000 mm (1.495 - 1.496 in)
bushes	
Inside diameter of installed bushes	38.080 - 38.119 mm (1.499 - 1.501 in)
Clearance between axle shafts and bushes	0.080 - 0.158 mm (0.003 - 0.006 in)
Axle shafts and steering knuckles	
Diameter of outer axle shafts and corresponding bushes	29.914 - 29.935 mm (1.178 - 1.179 in)
Inside diameter of installed front bush	30.050 - 30.105 mm (1.183 - 1.185 in)
Clearance between pin and bush	0.115 - 0.191 mm (0.005 - 0.008 in)
Interference fit between bushes and respective bores	0.064 - 0.013 mm (0.003 - 0.001 in)
Thickness of steering knuckle bearing adjuster plates	0.100 mm (0.004 in) - 0.150 mm (0.006 in) - 0.200 mm (0.008 in) - 0.250 mm (0.010 in) - 0.300 mm (0.012 in)
Planetary final drives	
Reduction ratio	15.0 mm (0.6 in) :(19.0 mm (0.7 in) + 54.0 mm (2.1 in)) =
Driven gear thrust washer thickness	0.770 - 0.830 mm (0.030 - 0.033 in)
Axle pivot	
Pivotting angle (on either side)	11 *
Centre pivot and support end float	0.30 - 1.10 mm (0.01 - 0.04 in)
Max. wear clearance	2.00 mm (0.08 in)
Centre pivot diameter	52.652 - 52.671 mm (2.073 - 2.074 in)
Centre pivot front bushing fitted	52.720 - 52.790 mm (2.076 - 2.078 in)
Centre pivot working clearance in bushing	0.049 - 0.138 mm (0.002 - 0.005 in)
Rear bevel pinion carrier spigot	99.040 - 99.720 mm (3.899 - 3.926 in)
Rear bushing fitted	99.146 - 99.221 mm (3.903 - 3.906 in)

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Christian Drosten

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