



Rebuild Specification for Jeep® JL Dana 30™ Front Axles



Diff Specifications - M186 Front

	USA	Metric
Ring Gear Bolt (DRY / NO OIL).....	70 – 90 ft-lbs	95 – 122 Nm
Bearing Cap Bolt.....	70 – 90 ft-lbs	95 – 122 Nm
Pinion Nut.....	160 ft-lbs	217 Nm MIN
Ring Gear Backlash.....	0.005” – 0.008”	.127 – .203 mm
Diff Cover Bolt.....	28 – 33 ft-lbs	38 – 45 Nm
Diff Cover Plug.....	15 – 25 ft-lbs	20 – 34 Nm
Lubricant Type	SAE 75W-140 Gear Lubricant	
Lubricant Capacity	0.90 qts	0.86 L
Axle Nut.....	90 – 110 ft-lbs	122 – 149 Nm
Hub Assembly Bolts.....	67 – 74 ft-lbs	90 – 100 Nm

Drive Pinion and Total Torque to Rotate

Drive Pinion Torque to Rotate (PTR)	8.2 – 25.7 in-lbs	0.92 – 2.90 Nm
Total Torque to Rotate (PTTR):		

Gear Ratio	USA (in-lbs)	Metric (Nm)
3.45	PTR + (3.2 - 7.6 in-lbs)	PTR + (0.36 - 0.86 Nm)
4.10	PTR + (2.7 - 7.2 in-lbs)	PTR + (0.31 - 0.81 Nm)
4.56	PTR + (2.4 - 6.8 in-lbs)	PTR + (0.27 - 0.77 Nm)
4.88	PTR + (2.1 - 6.5 in-lbs)	PTR + (0.24 - 0.74 Nm)
5.13	PTR + (1.9 - 6.4 in-lbs)	PTR + (0.22 - 0.72 Nm)

