

TIGHTENING TORQUES

	Nm	lbf. ft
Axle shaft to hub stud nuts	62	46
Driver coupling nut	271	200
Bevel pinion bearing sleeve to gear carrier setbolts	74.5	55
Gear carrier to casing setbolts	81	60
Gear carrier bearing cap setbolts	237	175
Differential case (half) setbolts	80	59
Differential case to crown wheel setbolts	118	87
Brake assembly to casing, setbolts and nuts	135	100

DATA

Type	Fully floating
Final drive gears	Spiral bevel
Differential gears	Straight bevel
Axle casing	Pressed steel banjo
Final drive gear carrier)	
Differential case halves)	Malleable iron castings
Bevel pinion bearing Sleeve)	

AXLE RATIOS

AX6	AX8	AX9
3.909	4.875	4.875
4.273	5.43	5.43
4.875	6.0	6.0
5.43		
6.0		

ADJUSTMENT FOR TOOTH CONTACT

(Crown wheel and bevel pinion)	
Bevel pinion adjustment	Shims fitted between bevel pinion bearing sleeve and gear carrier.
(in relation to crown wheel)	Shims are obtainable in 0.76, 0.127 and 0.305 mm (0.003, 0.005 and 0.12 in).
Crown wheel adjustment	Externally threaded bearing adjusters seated in the gear carrier and caps.
(in relation to bevel pinion)	
Crown wheel side thrust	Taken on phospher bronze pad.

BEARINGS

Hub bearings	Taper roller
Adjustment	Adjusting nut secured by locknut and washer
Bevel pinion bearings	Taper roller
Adjustment	Distance piece within the bearing sleeve
Bevel pinion pilot bearing	Parallel roller

LUBRICATION

Drain plug	Fitted in the axle casing banjo
Combined filler and oil level plug	Fitted in the casing rear cover

LUBRICANTS

Unit	Recommended Lubricant	Specification
Rear Axle	Elf Tranself 80W/90	MIL-L-2105A
	(Normal usage)	or API GL4
	Elf Tromself B80/90	MIL-L-2105C
	(off road extreme duty)	or API GL5
Wheel hubs	Elf Grease Multi EP2	NLGI-2 + EP Additives

MANUFACTURING DATA

	Millimetres	Inches
DIFFERENTIAL		
Backlash (crown wheel to bevel pinion)	0.23 to 0.30	0.009 to 0.012
Internal diameter of pinions	25.51 to 25.55	1.004 to 1.006
Diameter of cross pin spigots	25.40 to 25.42	1.000 to 1.001
Clearance between cross pin spigot and internal diameter of pinion	0.089 to 0.152	0.003 to 0.006
Internal diameter of differential case on register for bevel wheel	55.57 to 55.73	2.188 to 2.194
Diameter of bevel wheel spigot	55.37 to 55.42	2.180 to 2.182
Clearance between bevel wheel spigot and internal diameter of differential case	0.15 to 0.35	0.006 to 0.014
Thrust washer thickness		
Pinion	0.91 to 0.94	0.036 to 0.037
Bevel wheel	1.60 to 1.65	0.063 to 0.065
Crown wheel thrust pad thickness	5.08 to 5.33	0.200 to 0.210
Average clearance, thrust pad to crown wheel	0.38	0.015