

CAPACITIES

LITRES	
Transmission fluid (0 - 5 mm below the lower edge of the inspection hole)	1.75

SHIM THICKNESS CALCULATIONS

TYPE	1ST – 4TH GEAR OUTPUT SHAFT	5TH, 6TH AND REVERSE GEAR OUTPUT SHAFT	DIFFERENTIAL ASSEMBLY
Measuring shims (mm)	-	-	+1,10
Measured end float (example) (mm)	+1,56	+1,51	+0,36
Addition value (mm) to obtain correct bearing pre-load	+0,17	+0,15	+0,20
Required shim thickness (example) (mm)	= 1.73	= 1.66	= 1.66
Available shims (mm)	1.44 -2.16 (in 0.02 mm steps)	1.44 -2.16 (in 0.02 mm steps)	1.44 - 2.28 (in 0.02 mm steps)

TRANSMISSION RATIOS

1.6L ECOBOOST ENGINE	INTERNAL GEARBOX RATIO(S)	FINAL DRIVE RATIO(S)	OVERALL RATIO(S)
1st gear	3.818	3.813	13.662
2nd gear	2.150	3.813	7.443
3rd gear	1.423	3.813	4.732
4th gear	1.029	3.813	3.310
5th gear	1.129	2.773	2.615
6th gear	0.943	2.773	2.188
Reverse gear	1.423	*(3.818 x 2.772) = 10.583	15.066

*** The final drive ratio for reverse gear is calculated by multiplying the internal gearbox ratio for 1st gear by the final drive ratio of the 5th/6th and reverse gear output shaft.**

TRANSMISSION RATIOS

1.6L DIESEL ENGINE	INTERNAL GEARBOX RATIO(S)	FINAL DRIVE RATIO(S)	OVERALL RATIO(S)
1st gear	3.583	4.063	14.557
2nd gear	1.952	4.063	7.932
3rd gear	1.241	4.063	5.043
4th gear	0.868	4.063	3.528
5th gear	0.943	2.955	2.786
6th gear	0.789	2.955	2.333
Reverse gear	1.423	*(3.583 x 2.955) = 10.588	15.066

*** The final drive ratio for reverse gear is calculated by multiplying the internal gearbox ratio for 1st gear by the final drive ratio of the 5th/6th and reverse gear output shaft.**

TRANSMISSION RATIOS

1.6L DIESEL ENGINE (ECO)	INTERNAL GEARBOX RATIO(S)	FINAL DRIVE RATIO(S)	OVERALL RATIO(S)
1st gear	3.583	3.688	13.214
2nd gear	1.864	3.688	6.872
3rd gear	1.194	3.688	4.401
4th gear	0.868	3.688	3.202
5th gear	0.943	2.682	2.529
6th gear	0.789	2.682	2.117
Reverse gear	1.423	*(3.583 x 2.682) = 9.601	13.676

*** The final drive ratio for reverse gear is calculated by multiplying the internal gearbox ratio for 1st gear by the final drive ratio of the 5th/6th and reverse gear output shaft.**

TRANSMISSION RATIOS

1.8L DIESEL ENGINE	INTERNAL GEARBOX RATIO(S)	FINAL DRIVE RATIO(S)	OVERALL RATIO(S)
1st gear	3.583	3.813	13.662

2nd gear	1.952	3.813	7.443
3rd gear	1.241	3.813	4.732
4th gear	0.868	3.813	3.310
5th gear	0.943	2.773	2.615
6th gear	0.789	2.773	2.188
Reverse gear	1.423	*(3.583 x 2.773) = 9.936	14.139

*** The final drive ratio for reverse gear is calculated by multiplying the internal gearbox ratio for 1st gear by the final drive ratio of the 5th/6th and reverse gear output shaft.**

TRANSMISSION RATIOS

2.0L ECOBOOST ENGINE	INTERNAL GEARBOX RATIO(S)	FINAL DRIVE RATIO(S)	OVERALL RATIO(S)
1st gear	3.818	3.813	14.557
2nd gear	2.150	3.813	8.197
3rd gear	1.423	3.813	5.425
4th gear	1.029	3.813	3.921
5th gear	1.129	2.773	3.130
6th gear	0.943	2.773	2.614
Reverse gear	1.423	*(3.818 x 2.772) = 10.583	15.066

*** The final drive ratio for reverse gear is calculated by multiplying the internal gearbox ratio for 1st gear by the final drive ratio of the 5th/6th and reverse gear output shaft.**

TRANSMISSION RATIOS

2.0L DIESEL ENGINE (EMISSION REQUIREMENTS: STAGE III / STAGE IV)	INTERNAL GEARBOX RATIO(S)	FINAL DRIVE RATIO(S)	OVERALL RATIO(S)
1st gear	3.583	3.813	13.662
2nd gear	1.952	3.813	7.443
3rd gear	1.241	3.813	4.732
4th gear	0.868	3.813	3.310

5th gear	0.943	2.773	2.615
6th gear	0.789	2.773	2.188
Reverse gear	1.423	*(3.583 x 2.773) = 9.936	14.139

*** The final drive ratio for reverse gear is calculated by multiplying the internal gearbox ratio for 1st gear by the final drive ratio of the 5th/6th and reverse gear output shaft.**

TRANSMISSION RATIOS

2.0L DIESEL ENGINE (EMISSION REQUIREMENTS: STAGE V)	INTERNAL GEARBOX RATIO(S)	FINAL DRIVE RATIO(S)	OVERALL RATIO(S)
1st gear	3.583	3.688	13.214
2nd gear	1.952	3.688	7.199
3rd gear	1.241	3.688	4.576
4th gear	0.868	3.688	3.201
5th gear	0.943	2.682	2.529
6th gear	0.789	2.682	2.116
Reverse gear	1.423	*(3.583 x 2.682) = 9.891	14.075

*** The final drive ratio for reverse gear is calculated by multiplying the internal gearbox ratio for 1st gear by the final drive ratio of the 5th/6th and reverse gear output shaft.**