

Fastener Tightening Specifications

Application	Specification	
	Metric	English
5th/Reverse Gear Shift Shaft Bolt	13 N·m	10 lb ft
Back Up Light Switch Nut	17 N·m	13 lb ft
Counter Shaft 5th Gear Nut	70 N·m	52 lb ft
Crankshaft Position Sensor Bolt	7 N·m	62 lb in
Differential Ring Gear Bolt	90 N·m	66 lb ft
Engine Mounting Rear Damping Bolts	55 N·m	41 lb ft
Front Exhaust Pipe Nut - Exhaust Manifold Side/Muffler Side	30 N·m	22 lb ft
Gear Shift Lever Bolts	6 N·m	53 lb in
Ground Wire Bolt	13 N·m	10 lb ft
High Speed Shift Shaft Bolt - 5th Gear Shift	13 N·m	10 lb ft
Low Speed Shift Shaft Bolt - 3rd and 4th Gear Shift	13 N·m	10 lb ft
Oil Drain Plug	28 N·m	21 lb ft
Oil Level Plug	28 N·m	21 lb ft
Radiator Lower Hose Bracket Bolts	12 N·m	106 lb in
Rear Damping Block Connection Nut and Bolt	82 N·m	61 lb ft
Reverse Idle Gear Shaft Bolt	23 N·m	17 lb ft
Reverse Shift Lever Bolt	23 N·m	17 lb ft
Select Cable Nut - Shift Lever Side	10 N·m	89 lb in
Side Cover - Clutch Plate	10 N·m	89 lb in
Side Cover Bolt	10 N·m	89 lb in
Side Cover Plate Bolt	7 N·m	62 lb in
Shift Interlock Bolt	23 N·m	17 lb ft
Speedometer Driven Gear Bolt	7 N·m	62 lb in
Transaxle Lower Bolt	60 N·m	44 lb ft
Transaxle Mounting Bolt - Rear Bracket	50 N·m	37 lb ft
Transaxle Mounting Bolts - Rear Damping Block	55 N·m	41 lb ft
Transaxle Upper Bolt - Engine Side	60 N·m	44 lb ft

Manual Transmission Specifications

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General Specifications

Application	Specification	
	Metric	English
General		
• Type - Forward Gear	Synchronized Mesh Type	
• Type - Reverse Gear	Sliding Mesh Type	
• Gear Ratio - 1st	3.417	
• Gear Ratio - 2nd	1.950	
• Gear Ratio - 3rd	1.280	
• Gear Ratio - 4th	0.971	
• Gear Ratio - 5th	0.758	
• Gear Ratio - Reverse	3.273	
• Final Drive Ratio	4.105	
• Fluid Capacity	2.1 L	2.21 qt
• Fluid Classification	75W-85	GL-4
Service		
• Clearance Between Gear and Synchronizer Ring - Limit	0.5 mm	0.020 in
• Clearance Between Gear and Synchronizer Ring - Standard	1.0 mm	0.039 in
• Clearance Between Sleeve and Shift Fork - Limit	1.0 mm	0.039 in
• Clearance Between Sleeve and Shift Fork - Standard	0.2-0.6 mm	0.008-0.024 in
• Key Groove Width of Synchronizer Ring - Limit - 1st Gear	10.0 mm	0.394 in
• Key Groove Width of Synchronizer Ring - Standard - 1st Gear	9.6 mm	0.378 in
• Key Groove Width of Synchronizer Ring - Limit - 2nd, 3rd, 4th Gear	10 mm	0.394 in
• Key Groove Width of Synchronizer Ring - Standard - 2nd, 3rd, 4th Gear	9.6 mm	0.378 in
• Key Groove Width of Synchronizer Ring - Limit - 5th Gear	9.8 mm	0.386 in
• Key Groove Width of Synchronizer Ring - Standard - 5th Gear	9.4 mm	0.370 in
• Shift Fork End Thickness for Low Speed Shift Fork - Limit - 1st-2nd Gear	8.1 mm	0.319 in
• Shift Fork End Thickness for Low Speed Shift Fork		

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Standard - 1st-2nd Gear	8.7 mm	0.343 in
• Shift Fork End Thickness for Low Speed Shift Fork - Limit - 3rd-4th Gear	7.2 mm	0.283 in
• Shift Fork End Thickness for High Speed Shift Fork - Standard - 3rd-4th Gear	7.8 mm	0.307 in
• Shift Fork End Thickness for Low Speed Shift Fork - Limit - 5th Gear	7.2 mm	0.283 in
• Shift Fork End Thickness for Shift Fork - Standard - 5th Gear	7.8 mm	0.307 in
• Speedometer Gear Ratio - Driven/Drive	17/18	0.944
• Thrust Free Play of Differential Side Gear	0.05-0.33 mm	0.002-0.013 in

Performance - Manual Transmission

Application	Specification	
	Metric	English
Gradeability	0.4 (tan O)	
Maximum Speed	153 km/h	95.1 mph
Minimum Turning Radius	4.8 m	15.7 ft

Manual Transmission

Application	Specification	
	Metric	English
Final Drive Ratio	4.105:1	
Gear Ratio		
• 1st	3.417:1	
• 2nd	1.950:1	
• 3rd	1.280:1	
• 4th	0.971:1	
• 5th	0.758:1	
• Reverse	3.273:1	
Maker	DWMC	
Oil Capacity	2.1 L	2.21 qt
Type or Model	Y4M	

Transaxle Case Surface and Bearing Outer Races Clearance Table

Measured value	Shim thickness
0.33-0.37 mm (0.0130-0.0146 in)	0.45 mm (0.0177 in)
0.38-0.42 mm (0.0147-0.0165 in)	0.50 mm (0.0197 in)
0.43-0.47 mm (0.0169-0.0185 in)	0.55 mm (0.0217 in)
0.48-0.52 mm (0.0189-0.0205 in)	0.60 mm (0.0236 in)
0.53-0.57 mm (0.0209-0.0224 in)	0.65 mm (0.0256 in)
0.58-0.62 mm (0.0228-0.0244 in)	0.70 mm (0.0276 in)
0.63-0.67 mm (0.0248-0.0264 in)	0.75 mm (0.0295 in)

0.68-0.72 mm (0.0268-0.0283 in)	0.80 mm (0.0315 in)
0.73-0.77 mm (0.0287- 0.0303 in)	0.85 mm (0.0335 in)
0.78-0.82 mm (0.0307-0.0323 in)	0.90 mm (0.0354 in)
0.83-0.87 mm (0.0327-0.0343 in)	0.90 mm (0.0354 in)
0.88-0.92 mm (0.0346-0.0362 in)	1.00 mm (0.0394 in)
0.93-0.97 mm (0.0366-0.0382 in)	1.05 mm (0.0413 in)
0.98-1.02 mm (0.0386-0.0402 in)	1.10 mm (0.0433 in)
1.03-1.07 mm (0.0406-0.0421 in)	1.15 mm (0.0453 in)

Side Gear Axle Direction Play Table

Application	Specification	
	Metric	English
Thrust Adjusting Shim	0.90-0.95 mm	0.0354-0.0374 in
	1.00-1.05 mm	0.0394-0.0413 in
	1.10-1.15 mm	0.0433-0.0453 in
	1.20 mm	0.0472 in
Thrust Free Play of Differential Side	0.05-0.33 mm	0.0020-0.0130 in