

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Backup Lamp Switch	27 N·m	20 lb ft
Backup Lamp Switch Bracket Bolt	9 N·m	80 lb in
Clutch Housing Assembly to Transmission Case Bolts	48 N·m	36 lb ft
Clutch Housing Pump Plug	27 N·m	20 lb ft
Concentric Slave Cylinder Bolt	12 N·m	106 lb in
Coolant Temperature Sensor	39 N·m	29 lb ft
Cooler Line Return Fitting	18 N·m	13 lb ft
Cover Plate Bolts	20 N·m	15 lb ft
Extension Housing Plug	27 N·m	20 lb ft
Extension Housing to Transmission Case Bolts	48 N·m	36 lb ft
Gear Select/Skip Shift Solenoid	40 N·m	30 lb ft
Neutral Return Cam Spring Retaining Bolt	25 N·m	18 lb ft
Propshaft Transmission Yoke Nut	136 N·m	100 lb ft
Pump Outlet Cooler Fitting	17 N·m	13 lb ft
Reverse Idler Shaft Bracket Bolts	25 N·m	18 lb ft
Reverse Lockout Assembly Bolt	18 N·m	13 lb ft
Reverse Lockout Solenoid	40 N·m	30 lb ft
Shift Control Adapter Plate Bolt	18 N·m	13 lb ft
Shift Control Adapter Plate Nut	12 N·m	106 lb in
Shift Detent Assembly	40 N·m	30 lb ft
Shift Guide Plate Bolts	22 N·m	16 lb ft
Shift Lever Guide Bolts	27 N·m	20 lb ft
Shift Shaft Detent Plug	24 N·m	18 lb ft
Transmission Bolt	48 N·m	35 lb ft
Transmission Case Drain Plug	27 N·m	20 lb ft
Transmission Case Fill Plug	27 N·m	20 lb ft
Transmission Fluid Pump Outlet Pipe Fitting	18 N·m	13 lb ft
Transmission Fluid Temperature Sensor/Drain Plug	18 N·m	13 lb ft
Transmission Mount to Transmission Case Bolts	60 N·m	44 lb ft
Vehicle Speed Sensor (VSS) Bolt	11 N·m	96 lb in

Adhesives, Fluids, Lubricants, and Sealers

Sealers, Adhesives, and Lubricants

Application	Type Of Material	GM Part Number	
		United States	Canada
Clutch Housing Assembly Plug	Sealant	12346004	10953480
Cover Plate	Sealant	12345739	10953472
Extension Housing Bolts	Sealant	12346004	10953480
Reverse Idler Shaft Bracket Bolts	Threadlock	12345382	10953489
Reverse Lamp Switch	Sealant	12346004	10953480
Shift Lever Guide Bolts	Sealant	12346004	10953480
Temperature Switch	Sealant	12346004	10953480
Transmission Case Drain Plug	Sealant	12346004	10953480
Transmission Case to Clutch Housing Mating Surface	Sealant	12345739	10953472
Transmission Fluid	Lubricant	88861800	88861801

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Lubrication Specifications

Application	Specification	
	Metric	English
Manual Transmission Fluid GM P/N 88861800 (Canadian P/N 88861801)	3.45 liters	3.65 quarts
When filled, fluid level should be at the bottom of the fluid check plug hole.		

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Shim Size Specifications

Application	Specification	
	Metric	English
Countershaft Shim Preload	0.0-0.05 mm	0.0-0.002 in
Input Shaft/Mainshaft Shim Preload	0.0-0.05 mm	0.0-0.002 in