

Specifications

Materials

Name	Specification
Motorcraft® Clear Silicone Rubber TA-32	ESB-M4G92-A
Motorcraft® Additive Friction Modifier XL-3	EST-M2C118-A
Motorcraft® SAE 80W-90 Premium Rear Axle Lubricant XY-80W90-QL	WSP-M2C197-A
Motorcraft® SAE 75W-140 Synthetic Rear Axle Lubricant XY-75W140-QL	WSL-M2C192-A

Capacities

Item	Type of Axle	Capacity
Material: Motorcraft® SAE 75W-140 Synthetic Rear Axle Lubricant / XY-75W140-QL (WSL-M2C192-A) ^a	Without Limited-Slip	3.78 qt (3.58 L)
Material: Motorcraft® SAE 75W-140 Synthetic Rear Axle Lubricant / XY-75W140-QL (WSL-M2C192-A) ^a	With Limited-Slip	3.56 qt (3.37 L)
Material: Motorcraft® SAE 80W-90 Premium Rear Axle Lubricant / XY-80W90-QL (WSP-M2C197-A) ^b	Without Limited-Slip	3.78 qt (3.58 L)
Material: Motorcraft® SAE 80W-90 Premium Rear Axle Lubricant / XY-80W90-QL (WSP-M2C197-A) ^b	With Limited-Slip	3.56 qt (3.37 L)
Material: Motorcraft® Additive Friction Modifier / XL-3 (EST-M2C118-A)	Limited-Slip only	0.22 qt (.21 L)
Material: Motorcraft® Clear Silicone Rubber / TA-32 (ESB-M4G92-A)	-	-

^aVehicles equipped with 6.7L Power Stroke Diesel

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^bVehicles equipped with gasoline engines

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General Specifications

Item	Specification
Backlash and Runout Specifications	
Backlash between differential ring gear and pinion	0.13-0.20 mm (0.005-0.008 in)
Backlash maximum variation between checkpoints	0.076 mm (0.003 in)
Differential case runout ^a	-

Rotational Torque Ranges	
Pinion bearing preload (with new bearings)	1.4 - 3.2 Nm (12.39 - 28 lb-in)
Total (pinion plus differential) preload with new bearings ^a	Add 0.49 - 1.80 Nm (4.33 - 15.93 lb-in)
Total (pinion plus differential) preload with new bearings ^b	Add 0.46 - 1.71 Nm (4.07 - 15.13 lb-in)
Total (pinion plus differential) preload with new bearings ^c	Add 0.42 - 1.56 Nm (3.71 - 13.81 lb-in)
Total (pinion plus differential) preload with new bearings ^d	Add 0.40 - 1.49 Nm (3.54 - 13.18 lb-in)
Total (pinion plus differential) preload with new bearings ^e	Add 0.36 - 1.31 Nm (3.18 - 11.59 lb-in)
Clearance Specifications	
Maximum spread of rear axle	0.50 mm (0.020 in)

^aContact Spicer Service at 1-800-826-4357 for assistance if differential case runout is detected to determine cause.

^a3.55 gear ratio

^b4.10 gear ratio

^c4.10 gear ratio

^d4.30 gear ratio

^e4.88 gear ratio

Available Inner Drive Pinion Bearing Shims

mm	Inch
1.100	0.043
1.125	0.044
1.150	0.045
1.175	0.046
1.200	0.047
1.225	0.048
1.250	0.049
1.275	0.050
1.300	0.051
1.325	0.052
1.350	0.053
1.375	0.054
1.400	0.055
1.425	0.056

