

Specifications

Procedure revision date:
05/19/2017

Specifications

Materials

Name	Specification
Motorcraft® Premium Long-Life Grease XG-1-E1	ESA-M1C75-B
Motorcraft® SAE 75W-85 Premium Synthetic Hypoid Gear Lubricant XY-75W85-QL	WSS-M2C942-A
Motorcraft® Silicone Gasket and Sealant TA-30	WSE-M4G323-A4
Maximum Strength Retaining Compound Loctite® 638™	WSK-M2G349-A8

Capacities

Item	Liters
<i>Material:</i> Motorcraft® SAE 75W-85 Premium Synthetic Hypoid Gear Lubricant / XY-75W85-QL (WSS-M2C942-A)	1.93L (4.0 pt) (to the bottom of the filler hole)
<i>Material:</i> Motorcraft® Premium Long-Life Grease / XG-1-E1 (ESA-M1C75-B)	—
<i>Material:</i> Motorcraft® Silicone Gasket and Sealant / TA-30 (WSE-M4G323-A4)	-
<i>Material:</i> Maximum Strength Retaining Compound / Loctite® 638™ (WSK-M2G349-A8)	-

General Specifications

Item	Specification
Available drive pinion bearing adjustment shim in steps of 0.025 mm (0.001 in)	0.381-1.219 mm (0.010-0.038 in)
Maximum axle shaft flange runout	0.076 mm (0.003 in)
Maximum differential case ring gear flange runout	0.076 mm (0.003 in)
Maximum pinion flange runout	0.279 mm (0.011 in)
Pinion bearing rotational preload	1.8-3.3 Nm (16-29 lb-in)
Ring gear backlash	0.203-0.304 mm (0.008-0.012 in)
Ring gear maximum variation between teeth backlash	0.102 mm (0.004 in)

Rear Axle Backlash Shim Adjustment Table

Backlash Change Required		Thickness Change Required	
mm	In	mm	In
0.025	0.001	0.050	0.002
0.050	0.002	0.050	0.002
0.076	0.003	0.101	0.004
0.101	0.004	0.152	0.006
0.127	0.005	0.152	0.006
0.152	0.006	0.203	0.008
0.177	0.007	0.254	0.010
0.203	0.008	0.254	0.010
0.228	0.009	0.304	0.012
0.254	0.010	0.355	0.014
0.279	0.011	0.355	0.014

0.304	0.012	0.406	0.016
0.330	0.013	0.457	0.018
0.335	0.014	0.457	0.018
0.381	0.015	0.508	0.020

Differential Shim Size Chart 4067

Stripes and Color Code	Dimension A	
	mm	Inch
2 - C-COAL	7.7978-7.8105	0.3070-0.3075
1 - C-COAL	7.7470-7.7597	0.3050-0.3055
5 - BLU	7.6962-7.7089	0.3030-0.3035
4 - BLU	7.6454-7.6581	0.3010-0.3015
3 - BLU	7.5946-7.6073	0.2990-0.2995
2 - BLU	7.5458-7.5565	0.2970-0.2975
5 - PINK	7.4422-7.4549	0.2930-0.2935
4 - PINK	7.3914-7.4041	0.2910-0.2915
3 - PINK	7.3406-7.3533	0.2890-0.2895
2 - PINK	7.2898-7.3025	0.2870-0.2875
1 - PINK	7.2390-7.2517	0.2850-0.2855
5 - GRN	7.1882-7.2009	0.2830-0.2835
4 - GRN	7.1374-7.1501	0.2810-0.2815
3 - GRN	7.0866-7.0993	0.2790-0.2795
2 - GRN	7.0358-7.0485	0.2770-0.2775
1 - GRN	6.9850-7.0485	0.2750-0.2755
5 - WH	6.9342-6.9469	0.2730-0.2735
4 - WH	6.8834-6.8961	0.2710-0.2715
3 - WH	6.8326-6.8453	0.2690-0.2695

2 - WH	6.7818-6.7945	0.2670-0.2675
1 - WH	6.7310-6.7437	0.2650-0.2655
5 - YEL	6.6802-6.6929	0.2630-0.2635
4 - YEL	6.6294-6.6421	0.2610-0.2615
3 - YEL	6.5786-6.5913	0.2590-0.2595
2 - YEL	6.5278-6.5405	0.2570-0.2575
1 - YEL	6.4770-6.4897	0.2550-0.2555
5 - ORNG	6.4262-6.4389	0.2530-0.2535
4 - ORNG	6.3754-6.3881	0.2510-0.2515
3 - ORNG	6.3246-6.3373	0.2490-0.2495
2 - ORNG	6.2738-6.2865	0.2470-0.2475
1 - ORNG	6.2223-6.2357	0.2450-0.2455
2 - RED	6.1722-6.1849	0.2430-0.2435
1 - RED	6.1214-6.1341	0.2410-0.2415

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