

Axle Wheel Bearing Installation Specifications

Conventional Wheel-End Systems					
	Initial Adjusting Nut Torque ①	Final Adjusting Nut Torque ③	Spindle Thread Diameter	Jam Nut Torque Specification	Acceptable End Play Range ③
Drive axles without lock washers	200 lb-ft (272 N•m) Back off 1 turn	50 lb-ft (68 N•m) Back off 1/4 turn	Less Than 2-5/8" (66.67 mm) 2-5/8" (66.67 mm) and Over	200-300 lb-ft (272-408 N•m) 300-400 lb-ft (408-544 N•m)	0.001"-0.005" (0.025-0.127 mm)
Drive axles with bendable lock washers	200 lb-ft (272 N•m) Back off 1 turn	50 lb-ft (68 N•m) Back off 1/4 turn	Less Than 2-5/8" (66.67 mm) 2-5/8" (66.67 mm) and Over	100-150 lb-ft (136-204 N•m) 100-200 lb-ft (136-272 N•m)	0.001"-0.005" (0.025-0.127 mm)
Front non-drive steer axles	150 lb-ft (203 N•m) Back off 1 turn	50 lb-ft (68 N•m) Back off 1/3 turn for 1-1/8" (28.6 mm), 1-1/2" (38.1 mm)	1-1/8" (28.6 mm) MFS-06, MFS-07, MFS-08 Over 1-1/8" (28.6 mm), Less Than 2-5/8" (66.67 mm)	150-225 lb-ft (203-305 N•m) 200-300 lb-ft (272-408 N•m)	0.001"-0.005" (0.025-0.127 mm)
		Back off 1/4 turn for 1-3/4" (44.45 mm) and over	2-5/8" (66.67 mm) and Over	250-400 lb-ft (339-542 N•m)	
Trailer axles	200 lb-ft (272 N•m) Back off 1 turn	50 lb-ft (68 N•m) Back off 1/4 turn	Less Than 2-5/8" (66.67 mm) 2-5/8" (66.67 mm) and Over	200-300 lb-ft (272-408 N•m) 300-400 lb-ft (408-544 N•m)	0.001"-0.005" (0.025-0.127 mm)
Long-Life Wheel-End Systems					
	Inner Nut Torque Specification ①	Outer Nut Torque Specification	Out-of-Service End Play Criteria ②		
Front non-drive steer (Easy Steer Plus™)	500-700 lb-ft (680-952 N•m)	200-300 lb-ft (272-408 N•m)	0.006" (0.1524 mm) or more		
	Inner Nut Torque ①	Outer Nut Torque	Out-of-Service End Play Criteria ②		
Trailer (TB Series)	700-750 lb-ft (952-1020 N•m)	250-300 lb-ft (340-408 N•m)	0.006" (0.1524 mm) or more		
	Initial Adjusting Nut Torque	Tighten Adjusting Nut	Install Tab Washer and Retainer Nut	Final Adjusting Nut Torque (Counterclockwise) ④	Acceptable End Play
Trailer (TRIAD™ wheel-end system)	150-200 lb-ft (204-272 N•m) Back off until loose	50-60 lb-ft (68-82 N•m) Back off 1/8 turn	20-25 lb-ft (27-34 N•m)	50 lb-ft (68 N•m)	0.000" to 0.005" (0.000-0.127 mm)
	Adjusting Nut Torque ①⑤	Out-of-Service End Play Criteria ②			
Trailer (TL Unitized)	810-850 lb-ft (1100-1150 N•m)	Greater than 0.003" (0.08 mm)			
	Inner Spindle Nut Torque ①	Outer Nut Torque	Out-of-Service End Play Criteria		
Trailer (PreSet® by Meritor)	300 lb-ft (408 N•m)	200 lb-ft (272 N•m)	0.006" (0.1524 mm) or more, service the PreSet hub assembly		

NOTE: For disc brake wheel ends, back off the brake caliper until the rotor is clear from the pad linings about 1/16-inch (1.588 mm) gap or more. Refer to Maintenance Manual MM-0467, DiscPlus™ EX225 Air Disc Brake, for more information. To obtain this publication, visit Literature on Demand at meritor.com.

- ① Rotate the hub a minimum of five complete turns while tightening the nut.
- ② After the retightening procedure is complete.
- ③ The nut may need to be slightly tightened or loosened to meet the required end play.
- ④ Rotated counterclockwise against the retainer nut.
- ⑤ Use a hammer and staking tool to stake the stake washer to the spindle nut in **three** positions.