

# Axle Wheel Bearing Installation Specifications



Conventional Wheel-End Systems					
	Initial Adjusting Nut Torque ①	Final Adjusting Nut Torque ④	Nut Size/Design	Jam Nut Torque Specification	Acceptable End Play Range ④
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" (66.675 mm) 2-5/8" (66.675 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" (66.675 mm) 2-5/8" (66.675 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	200 lb-ft (272 N•m) Back off 1 turn	50 lb-ft (68 N•m) Back off 1/2 turn	Less Than 2-5/8" (66.675 mm)	200-300 lb-ft (272-408 N•m)	0.001"-0.005" (0.025-0.127 mm)
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" (66.675 mm)	200-300 lb-ft (272-408 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/Back off until loose, then retighten to 25 lb-ft (34 N•m) ①	Retainer Nut Torque	Final Adjusting Nut Torque ⑤	Acceptable End Play Range ③
Trailer (TRIAD™ wheel-end system)	150-200 lb-ft (204-272 N•m)	25 lb-ft (34 N•m)	200-275 lb-ft (272-374 N•m)	0.000" to 0.005" (0.127 mm)

	Adjusting Nut Torque ①	Out-of-Service End Play Criteria ②
Trailer (TL Series)	525-550 lb-ft (714-748 N•m)	0.006" (0.1524 mm) or more

	Inner Spindle Nut Torque ①	Outer Nut Torque	Out-of-Service End Play Criteria
Trailer (PreSet® by ArvinMeritor)	300 lb-ft (408 N•m)	200 lb-ft (272 N•m)	0.006" (0.1524 mm) or more, service the PreSet hub assembly

- ① Rotate the hub a minimum of five complete turns while tightening the nut.
- ② After the retightening procedure is complete.
- ③ When you correctly adjust the TRIAD™ wheel-end system using the TRIAD™ adjustment procedure, you will obtain a 0.001-inch (0.025 mm) preload on the wheel bearings, which is not measurable in the field. However, you also can adjust the TRIAD™ wheel-end system using the wheel bearing adjustment procedure for trailer axles with conventional wheel ends, above, which will result in an acceptable end play of 0.001-0.005-inch (0.025-0.127 mm).
- ④ The nut may need to be slightly tightened or loosened to meet the required end play.
- ⑤ Rotated counterclockwise against the retainer nut.



**ArvinMeritor™**

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