Webb Torgue Specification Guidelines

The purpose of this publication is to assist users with safe installation and maintenance practices while maintaining optimum performance of their wheel-end equipment. If additional information is required, please refer to TMC Recommended Practices: 217D, 222C, 237A, 656, and 662.

Hub Piloted with Flange Nut (8 & 10 Stud Hubs)

Applied to M22 x 1.5 studs with two-piece flange nuts • Recommended torque oiled: 450 to 500 ft-lbs

Step 1. Place a drum pilot pad at the 12:00 o'clock position. Apply two drops of 30 weight oil between the nut and the nut flange, and two drops to the outermost 2 or 3 threads of the wheel stud. For corrosive environments, apply a light coating of anti-seize to the mounting pads of the hub as well as the pilot diameter of the brake drum to ease installation and removal. Note: Avoid getting any lubricant on the mating surfaces of the hub flange, drum flange, or disc wheel mounting flange areas.

Step 2. Starting with the top nut, tighten all flange nuts to 50 ft-lbs using the sequence shown at right.

Step 3. Tighten all flange nuts to the recommended torque of 450-500 ft-lbs using the sequence shown at right.

Step 4. Check all disc wheels for proper positioning on pilots and proper seating against flange.

Recheck torgue after first 50 to 100 miles of service or reference TMC RP 237A, "Torque Checking Guidelines For Disc Wheels" for individual fleet maintenance alternatives.

Tightening Sequence



Stud Piloted with Double Cap Nuts (6 & 10 Stud Hubs)

Applied to 3/4 - 16 and 1 1/8 - 16 fastener sizes • Recommended torque dry: 450 to 500 ft-lbs

Inner Cap Nuts

Step 1. Place a drum pilot pad at the 12:00 o'clock position. For corrosive environments, apply a light coating of anti-seize to the mounting pads of the hub as well as the pilot of the brake drum to ease installation and removal. Note: Avoid getting any lubricant on the mating surfaces of the hub flange, drum flange, or disc wheel mounting flange areas. Starting with the top nut, tighten all inner cap nuts to 50 ft-lbs using the sequence shown at the right.

Step 2. Tighten all inner cap nuts to the recommended torque of 450 to 500 ft-lbs, dry, using the sequence shown at right.

Outer Cap Nuts

Step 1. Place a drum pilot at the 12:00 o'clock position. Then, starting with the top nut, tighten all outer cap nuts to 50 ft-lbs using the sequence shown at right.

Step 2. Tighten all outer cap nuts to the recommended torgue of 450 to 500 ft-lbs using the sequence shown at right.

Step 3. Check disc-wheels for proper positioning on pilots and proper seating against flange.

Recheck torgue after first 50 to 100 miles of service or reference TMC RP 237Å, "Torque Checking Guidelines For Disc Wheels" for individual fleet maintenance alternatives.

NOTE: In all applications where an aluminum disc wheel is to be installed, a special inner cap nut must be substituted for a standard inner cap nut.

Mount Identification



FN Mount (Flange Nut)



BSN Mount (Ball Seat Nut)



www.webbwheel.com

Scan this QR code to get certified on brake drum selection and wheel-end installation, and we'll send a token of our appreciation.



🛆 f 🎔 🛗 in

Contact your local Webb Wheel Products supplier for training that can cut your operating costs! A Marmon | Berkshire Hathaway Company

©2023 Webb Wheel Products Inc Sept 2023 • SD-072-R16





Webb Torque Specification Guidelines

The purpose of this publication is to assist users with safe installation and maintenance practices while maintaining optimum performance of their wheel-end equipment. If additional information is required, please refer to TMC Recommended Practices: 217D, 222C, 237A, 656, and 662.

3, 5 and 6 Spoke Wheels

Recommended torgue dry: 200 to 260 ft-lbs (Applies to 3/4-10 fastener sizes)

Tighten clamps evenly in the sequence shown at right.

Heel-Less Clamps: Do not depend on a fulcrum at the bottom of the clamp to produce the force to wedge the rims. Heel of clamp does not touch wheel.

Heel-Type Clamps: Gap permissible but not required. If gap exceeds 1/4" or if clamp bottoms out before reaching 80% of recommended torque, check to insure that the proper clamps and spacers are being used.

Recheck torgue after first 50 to 100 miles of service or reference TMC RP 237A, "Torque Checking Guidelines For Disc Wheels" for individual fleet maintenance alternatives.

IMPORTANT: Do not overtorque! Rim clamp does not have to heel. Overtorquing can deform rim spacer and damage back flange.

Recommended Dry Torque Values

Hub Oil Fill Plug **Recommended Dry Torque Values**

Thread Size

5/16 - 18

Thread Size

1/4 - 18 NPTF

3/8 - 18 NPTF

9/16 - 18 UNF (o-ring style)

Torque ft-lbs

Min/Max

15/20

Torque ft-lbs

Min/Max

20/25

35/40

20/25





Drive Studs	and Hub C	ap Bolt Torque	Brake Drum or Rotor Assembly Torque Requirements					
Recommended Dry Torque Values			For Mounting Bolts or Nuts: Grade 8 Fasteners					
Description	Thread Size	Torque Requirements ft-lbs Min/Max	Thread Size	Tighten/ Loosen	Torque Requirements ft-Ibs Min/Max	Thread Size	Tighten/ Loosen	Torque Requirements ft-lbs Min/Max
Drive studs/ xle installation	1/2 - 20 5/8 - 18	80/90 175/185	5/8 - 18	Rotate bolt or nut	150/200	3/4 - 16 wheels	Rotate nut	275/300
torque	3/4 - 16	250/275	5/8 - 18 through holes	Rotate nut	150/175	3/4 - 16 hubs	Rotate nut	100/225
Hub Cap Mounting Bolts			3/4 - 10	Rotate nut	250/275	1 - 14	Rotate nut	175/225

	Bolt-On ABS Ring							
_	Screws for Bolt-on ABS Ring							
	Thread Size	Torque ft-lbs Min/Max						
	M4 x 0.7	20/24						
	# 8 - 32	28/32						
	1/4-20 (stainless)	78/85						
	1/4-20 (steel)	120/130						
	Note: Use high temp thread locking compound							



Scan this QR code to get certified on brake drum selection and wheel-end installation, and we'll send a token of our appreciation.



www.webbwheel.com Contact your local Webb Wheel Products supplier for training that can cut your operating costs!



Descri

axle inst

A Marmon | Berkshire Hathaway Company

©2023 Webb Wheel Products Inc Sept 2023 • SD-072-R16