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.

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

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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 torque 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 torque after first 50 to 100 miles of service or reference TMC RP 237A, “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.
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3, 5 and 6 Spoke Wheels
Recommended torque dry: 200 to 260 ft-lbs (Applies to ¾-10 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 torque 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.

Drive Studs and Hub Cap Bolt Torque

<table>
<thead>
<tr>
<th>Description</th>
<th>Thread Size</th>
<th>Torque Requirements ft-lbs Min/Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive studs/axle installation torque</td>
<td>1/2 - 20</td>
<td>80/90</td>
</tr>
<tr>
<td></td>
<td>5/8 - 18</td>
<td>175/185</td>
</tr>
<tr>
<td></td>
<td>3/4 - 16</td>
<td>250/275</td>
</tr>
</tbody>
</table>

Brake Drum or Rotor Assembly Torque Requirements

<table>
<thead>
<tr>
<th>Thread Size</th>
<th>Tighten/Loosen</th>
<th>Torque Requirements ft-lbs Min/Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/8 - 18 tapped holes</td>
<td>Rotate bolt</td>
<td>150/200</td>
</tr>
<tr>
<td>5/8 - 18 through holes</td>
<td>Rotate nut</td>
<td>150/175</td>
</tr>
<tr>
<td>3/4 - 10</td>
<td>Rotate nut</td>
<td>250/275</td>
</tr>
<tr>
<td>1 - 14</td>
<td>Rotate nut</td>
<td>175/225</td>
</tr>
</tbody>
</table>

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