

PRESET PLUS[®] HUB ASSEMBLY

Installation Procedures

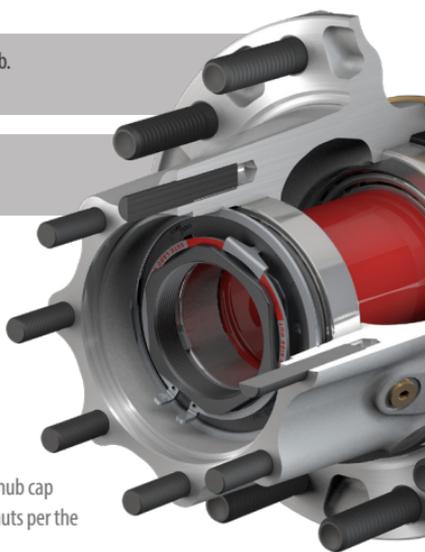
NOTE: Always follow your company's safety procedures.

1. **Clean the spindle to remove any lubricant**, corrosion prevention coating, foreign material, or surface rust that may be present.
2. **Lubricate the bearing journals on the spindle** or the inside diameter of the bearing cones with Grade 2 grease or the lubricant that will be used in the wheel end.
3. **Lubricate the inside diameter of the seal** with the same lubricant that will be used in the wheel end.
4. **If present, remove the red locking snap ring from the spindle nut.** Verify that the bearing spacer is in proper alignment. Align the key or flat on the washer with the keyway or flat on the spindle as the hub is placed onto the spindle. Use a smooth, firm motion and place the hub onto the spindle. When the threads on the nut engage the threads on the spindle, rotate the nut in a clockwise direction to fully engage the threads.
5. **Torque the spindle nut to the following torque values:**

Steer Hub: Torque the spindle nut to 300 ft-lbs while rotating the hub.
DO NOT BACK OFF THE SPINDLE NUT.

Drive Hub or Trailer Hub: Torque the spindle nut to 500 ft-lbs while rotating the hub. **DO NOT BACK OFF THE SPINDLE NUT.**

6. **Visually examine the three holes in the face of the spindle nut.** One of the holes will line up with the holes in the inner washer. Install the tab of the red locking snap ring through the aligned holes in the nut and washer. Spread the locking ring, push it over the spindle nut and into the machined grooves in the spindle nut. Use caution not to bend the locking ring permanently. If the locking ring is damaged or bent, replace it with a new one.
7. **Install the hub cap or drive axle with a new gasket.** Torque the hub cap bolts in a star pattern to 12 to 18 ft-lbs. Torque the drive axle bolts or nuts per the drive axle manufacturer's recommendation.



NOTICE: Use the proper hubcap for the type of lubricant used.



CAUTION: Failure to fill the hub with the correct amount of lubricant can cause premature failure of the PreSet Plus hub assembly.

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Torque Specifications

Item	Measurement	Torque (ft-lbs)	Notes
Ball Seat Wheel Nut	3/4 - 16 1 1/8 - 16	450 - 500 450 - 500	Always tighten the top nut first or pilot damage may result. Do not lubricate the faces of the hub, drum, wheel, or on the ball seats of the wheel nuts. The last nut rotation should be with a calibrated torque device.
Hub Pilot Wheel Nut	M22 x 1.5	450 - 500	Always tighten the top nut first or pilot damage may result. Apply two drops of oil between the nut and nut flange, and two or three drops to the outermost second or third thread of the wheel studs. Lightly lubricate the wheel pilots on the hub. The last nut rotation should be with a calibrated torque device.
Drive Studs, Installation Torque	3/4 - 16 5/8 - 18* 9/16 - 18 1/2 - 20	55 - 75 55 - 75 40 - 60 40 - 60	Torque value is for drive axle stud installation only. For drive axle flange nuts, see axle manufacturer's recommendations for proper torque. <i>*For Aluminum hubs, target 50 ft-lb</i>
Hub Cap	5/16 - 18	12 - 18	Minimum SAE Grade 5 fasteners, flat washers only.
Oil Fill Plug	1/4 NPT 3/8 NPT 9/16 - 18	20 - 25 20 - 25 20 - 25	- - O-Ring Style
Bolt-On ABS Ring Screw	8 - 32 1/4 - 20	18 - 22 in-lbs 125 - 135 in-lbs	
Disc Brake Rotor Screw	M8 x 1.25 M16 x 1.5 1/2 - 20 9/16 - 12 5/8 - 11 5/8 - 18	18 - 22 190 - 210 100 - 120 130 - 150 190 - 210 210 - 230	
Disc Brake Rotor Nut (Stud in Hub)	5/8 - 18	190 - 210	
Drive Axle Flange Nuts			See axle manufacturer's recommendations for proper drive axle nut torque.
PreSet Plus Drive & Trailer Nut		500	DO NOT BACK OFF
PreSet Plus Steer Nut		300	DO NOT BACK OFF

INSTRUCTION NOTE: Always tighten the top nut first to fully seat the brake drum on the drum pilot and against the hub face. See the adjacent diagram for bolt tightening sequence, and tighten in order from 1 through 8 or 10, depending on the bolt pattern.

For updated and complete instructions refer to the ConMet Service Manual.

