

PRESET[®] 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. **Leave the shipping cap in place on the hub assembly** or hold the bearing spacer and the outer bearing cone in place while you place the hub assembly onto the spindle. Use a smooth, firm motion and position the hub all of the way onto the spindle. Use care to maintain alignment between the spindle, the bearing cones, and the bearing spacer to prevent damage to the seal or the ABS tone ring.
5. **Torque the spindle nut to the following torque values:**

One Piece Spindle Nuts: Torque a one piece spindle nut to 300 ft-lbs while rotating the hub. **DO NOT BACK OFF THE SPINDLE NUT.** Engage any locking device that is a part of the spindle nut system. If the locking device cannot be engaged, advance the spindle nut until the lock can be engaged.

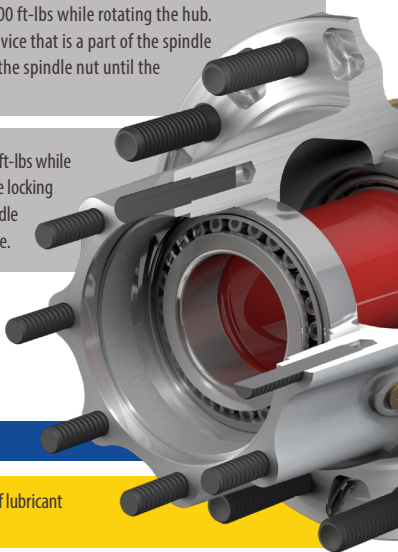
Double Jam Nut Systems: Torque the inner spindle nut to 300 ft-lbs while rotating the hub. Advance the inner nut as necessary to engage the locking ring. **DO NOT BACK OFF THE SPINDLE NUT.** Install the outer spindle nut and torque it to 200 ft-lbs. Be sure to engage any locking device.

6. **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 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	70 - 90 40 - 90 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.
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 155 - 165 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.
2-Piece Nut on PreSet Hub		300 Inner* 200 Outer*	DO NOT BACK OFF
1-Piece Nut on PreSet Hub		300**	

*PreSet FC medium-duty steer hub is 150 ft.-lbs inner, 100 ft.-lbs outer **PreSet FC medium-duty steer hub is 150 ft.-lbs

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.

