

# PRESET PLUS® TRAILER HUB ASSEMBLY

## Installation Procedures

**NOTE**

Ensure you follow your company's safety protocols/ procedures when installing. These procedures are intended to supplement, and not replace, the detailed instructions for installing and servicing ConMet hubs found at [www.conmet.com/literature](http://www.conmet.com/literature).

**WARNING**

Do not work under a vehicle supported only by jacks. Jacks can slip and fall over. Support the vehicle with safety stands. Serious personal injury and damage to components can result. To prevent serious eye injury, always wear safe eye protection when you perform vehicle maintenance or service. Park the vehicle on a level surface. Block the wheels to prevent the vehicle from moving.

**1 Clean Spindle**



Remove any lubricant, corrosion prevention coating, foreign material or surface rust on the spindle.

**2 Lubricate Spindle**



Lubricate the bearing journals on spindle or the inside diameter of the bearing cones with grade 2 grease or the lubricant that will be used in the wheel end.  
**NOTE:** Do not lube the seal journal on the spindle; it can be pushed out during hub install and appear to be leaking.

**3 Unpack & Lubricate Seal ID**



Remove all packaging, this may include outboard and inboard cardboard rings and a bungee disc. Lubricate the inside diameter of the seal with the same lubricant that will be used in the wheel end.

**4 Prepare and Align the Hub**



Remove the red locking snap ring from the spindle nut. Verify that the bearing spacer is in proper alignment. Align the key on the washer with the keyway on the spindle.

**5 Install Hub on 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.

**6 Torque Spindle Nut**



Torque the spindle nut to 500 ft.-lbs. while rotating the hub.  
**NOTE: DO NOT BACK OFF THE SPINDLE NUT.** Doing so will compromise the bearing endplay setting.

**7 Inspect Spindle Nut Holes**



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.

**8 Install Locking Ring**



Insert the tab of the red locking snap ring through the aligned nut and washer holes. Spread the ring, push over the spindle nut and into the machined grooves. Use caution not to bend the locking ring. If the ring is bent or damaged, replace with a new one.

**9 Verify Rotation**



Verify that the hub rotates freely.  
**End play measurement is not required.**

**Oil lubricated hubs**

**10 Install Hubcap**



Install the hubcap and torque the bolts in a star pattern to 12 to 18 ft.-lbs.

**11 Add Lubricant**



Fill the hub with oil through the hubcap or the fill hole on the barrel of the hub.  
**NOTE:** Only use oil approved by the seal manufacturer (see approved list from the seal manufacturer or on [www.conmet.com](http://www.conmet.com)).  
**WARNING:** Failure to fill and maintain the hub with the correct amount of oil may cause premature failure of the wheel hub system, bearing failure and possible loss of the wheel.

**12 Settle Lubricant**



Be certain the hubcap is properly filled to the "oil level" mark on the face of the cap. Allow the initial fill amount to settle for 10 minutes. Repeat the fill procedure until the oil is at the fill line on the hubcap.

**13 Install Fill Plug**



Reinstall fill plug in the hubcap or the barrel of the hub. Torque the fill plug in the barrel of the hub to 20 to 25 ft.-lbs.

**14 Label Chassis**



Install chassis label, which is available from ConMet (#10038167).

**Semi-fluid grease lubricated hubs**

**10 Determine Fill Volume**



Use the casting number on the hub and the semi-fluid grease chart below to determine the proper fill volume.

**11 Add Lubricant**



Install the hubcap, but do not tighten the bolts to allow for venting while filling. Install the semi-fluid grease lubricant through the fill hole in the barrel of the hub.  
**WARNING:** Failure to fill and maintain the hub with the correct amount of semi-fluid grease may cause premature failure of the wheel hub system, bearing failure and possible loss of the wheel.

**12 Install Fill Plug**



Install fill plug and torque the plug to 20 to 25 ft.-lbs.

**13 Torque Hubcap Bolts**



Torque the hubcap bolts in a star pattern to 12 to 18 ft.-lbs.

**14 Label Chassis**



Install chassis label, which is available from ConMet (#10038168).

**Recommended Fill Volumes for Semi-Fluid Grease**

HUB TYPE	MATERIAL	BRAKE TYPE	STUDS	CASTING NUMBERS*	PRESET PLUS VOLUME**
TN	Aluminum	Drum	10	100164	23 FL. OZ.
TN	Aluminum	Drum	8	101143	23 FL. OZ.
TN	Aluminum	Drum	10	102035	19 FL. OZ.
TN	Aluminum	Drum	8	102610	19 FL. OZ.
TN	Aluminum	Drum	10	10086537	19 FL. OZ.
TN	Aluminum	Disc	10	10086907	19 FL. OZ.
TN	Aluminum	Disc	10	10001896	19 FL. OZ.
TN	Aluminum	Disc	10	10017979	19 FL. OZ.
TN	Iron	Drum	10	10086874	27 FL. OZ.
TN	Iron	Drum	10	10003636	27 FL. OZ.
TN	Iron	Drum	10	10020219	27 FL. OZ.
TN	Iron	Drum	10	10023666	23 FL. OZ.
TN	Iron	Drum	10	10033293	23 FL. OZ.
TN	Iron	Drum	10	10083937	23 FL. OZ.
TN	Iron	Disc	10	10083541	25 FL. OZ.
TN	Iron	Disc	10	10083557	25 FL. OZ.

HUB TYPE	MATERIAL	BRAKE TYPE	STUDS	CASTING NUMBERS*	PRESET PLUS VOLUME**
TP	Aluminum	Drum	10	10086449	42 FL. OZ.
TP	Aluminum	Drum	10	100510	42 FL. OZ.
TP	Aluminum	Drum	8	101259	42 FL. OZ.
TP	Aluminum	Drum	10	10001216	42 FL. OZ.
TP	Aluminum	Drum	10	10033028	42 FL. OZ.
TP	Aluminum	Disc	10	10016225	42 FL. OZ.
TP	Aluminum	Disc	10	10086451	42 FL. OZ.
TP	Aluminum	Disc	10	10016620	47 FL. OZ.
TP	Iron	Drum	10	10003654	55 FL. OZ.
TP	Iron	Drum	10	10025633	35 FL. OZ.
TP	Iron	Drum	10	10033241	35 FL. OZ.
TP	Iron	Drum	10	10083939	35 FL. OZ.
TP	Iron	Drum	10	10009758	55 FL. OZ.
TP	Iron	Drum	10	10085658	55 FL. OZ.
TP	Iron	Drum	10	10034367	55 FL. OZ.
TP	Iron	Disc	10	10083549	55 FL. OZ.
TP	Iron	Disc	10	10083565	55 FL. OZ.

\*Hub casting numbers can be found cast onto the flange of the hub. For part numbers that don't appear in the chart, contact ConMet customer service at (800) 547-9473. \*\*These fill volumes were established with ConMet hubcaps and are to be used as reference only.

ConMet manufactures a full line of wheel-end products:

