
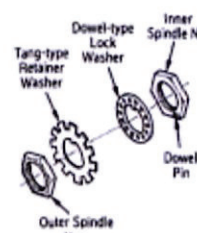


# EnduraSet™ Assembly – Installation Guide

Note: Ensure you always comply with your company's safety guidelines.

<b>1 Hub Installation Preparation</b>	<p>Before Beginning the Hub Installation:</p> <ul style="list-style-type: none"> <li>➤ Clean the spindle including the seal journal to remove any rust or dust material that may be present.</li> <li>➤ Lubricate the bearing and seal journals on the spindle with the same lubricant that will be used in the wheel hub (Grease/Semi Fluid Grease / Oil).</li> </ul>
<b>2 Install the Hub on Spindle</b>	<ul style="list-style-type: none"> <li>➤ REMOVE THE SHIPPING LOCK</li> <li>➤ Slide the hub assembly all the way onto the spindle.</li> <li>➤ Maintain alignment among the hub assembly components to prevent damage to the seal or ABS tone ring.</li> <li>➤ Do not remove the hub after the seal is engaged on the spindle as it will damage the seal. (ALWAYS USE NEW OIL SEAL WHILE MOUNTING ONTO THE SPINDLE).</li> </ul>
<b>3 Torque and Secure Spindle Nut</b>	<div> <p><b>For Single Spindle Nut System:</b></p> <p>TN Trailer: Torque a Single spindle nut to minimum 350~400 lb.ft (475~542 Nm) while rotating the hub on either side.</p> <ul style="list-style-type: none"> <li>➤ DO NOT BACK OFF THE SPINDLE NUT</li> <li>➤ Refer to the spindle nut manufacturer's instructions.</li> <li>➤ Engage any locking device. Advance the nut as necessary.</li> <li>➤ Proceed to step 4 to install hub cap.</li> </ul> </div> <div>  <p>Single Spindle Nut System</p> </div> <div> <p><b>For Double Spindle Nut System / Double Jam Nut System:</b></p> <p>TN Trailer: Torque the inner spindle nut to 350~400 lb.ft (475~542 Nm) while rotating the hub on either side</p> <ul style="list-style-type: none"> <li>➤ DO NOT BACK OFF THE SPINDLE NUT.</li> <li>➤ Engage any locking device. Advance the nut as necessary.</li> <li>➤ Install the outer spindle nut/ jam nut and torque to 200 ft.lbs (271 Nm).</li> <li>➤ Proceed to step 4 to install hub cap.</li> </ul> </div> <div>  <p>Double Spindle Nut System / Double Jam Nut System</p> </div>
<b>4 Install Hub Cap</b>	<ul style="list-style-type: none"> <li>➤ Install the hub cap with a new gasket.</li> <li>➤ Torque the hub cap bolts in a star pattern to 12 to 18 ft.lbs (15-25 Nm)</li> <li>➤ Use the proper hub cap for the type of Lubricant used.</li> <li>➤ Failure to fill the hub with the correct amount of lubricant can cause premature failure of the EnduraSet™ assembly</li> </ul>

## Suggested Fill Volumes for Lubricants:

HUB TYPE	PART NO.	FILL VOLUME FOR OIL	FILL VOLUME FOR SEMI FLUID GREASE	FILL VOLUME FOR HARD GREASE
TN	ES 44.01 332117	13.86 fl-oz	17.55 fl-oz	16.20 fl-oz

For Installation Procedure Refer to our Document: EnduraSet™ Assembly – Installation Procedure.

[www.enduraset.com/installation-procedure.html](http://www.enduraset.com/installation-procedure.html)



## INSTALLATION TIPS

Standard Tapered Roller-Bearings can not be used with a spacer to achieve proper End Play.

Always Replace the inner /outer races at the same time & maintain proper lubrication.

Never use an Impact Wrench.

## NOTE

Always follow your company's safety protocols when installing. These protocols are designed to support proper procedures and ensure safety. For full instructions on installing and servicing EnduraSet [www.enduraset.com/installation-guide.html](http://www.enduraset.com/installation-guide.html)

## ⚠ WARNING

Never work under a vehicle that is only supported by jacks. Jacks can slip or trip over. Always use safety stands to support the vehicle to avoid series injury and damage. To protect your eyes, wear safety goggles when doing maintenance or repair, Park the vehicle on a flat surface, and block the wheels to keep it from moving.

# EnduraSet™ Assembly – Installation Procedure

## 1. Clean the Spindle

BEFORE CLEANING AFTER CLEANING



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

## 2. Lubricate the Spindle



Slightly lubricate the bearing & seal journals on spindle with same lubricant use in Hub.

## 3. Lubricate Oil Seal/Bearing



Lubricate the inside diameter of the seal and the bearing.

## 4. Prepare & Align the Hub



Slide the hub assembly on to the spindle by maintaining alignment among the assembly components.

## 5. Install the Hub on Spindle



Install the hub with recommended nut system.

## 6. Torque the Hub



Torque the spindle nut while rotating the hub on either side. 350~400 lb.ft (475~542 Nm)

## 7. Install Locking Ring



Visually examine the holes and engage the locking device. Advance the nut as necessary.

## 8. Verify Rotation



Verify rotation to ensure the assembly spins freely.

## 9. Install Hub Cap



Install the hub cap and torque the bolts refer to torque specification.

## 10. Add Lubricant



Fill the hub with lubricant from the barrel to ensure the required amount of lubricant filled.

## 11. Install Fill Plug



Allow the lubricant to settle for 10~15mins. Repeat the procedure until the lubricant is at fill-line and install the fill plug.

## TORQUE SPECIFICATIONS

DESCRIPTION	FASTENER	TORQUE RANGE	REMARKS
Hub Cap	5/16 - 18	12-18 lb-ft (15-25 N.m)	Bolts in Star Pattern
Oil Fill Plug	1/4 NPT	20~25 lb-ft (25~35 N.m)	Magnetic Plug with O-Ring
	3/8 NPT		
	9/16 - 18		

## LUBRICATION REQUIREMENTS

HUB TYPE	PART NO	FIL VOLUME FOR OIL	FILL VOLUME FOR SEMI FLUID - GREASE	FILL VOLUME FOR HARD GREASE
TN	ES 44.01 332117	13.86 fl-oz	17.55 fl-oz	16.20 fl-oz