

**PreSet® Hub Installation Guidelines
For TRAILER Hubs Lubricated With SEMI-FLUID Grease**

10020634 Rev.F
ECN 14104
10/6/2010

CAUTION!
Failure to fill and maintain the hub with the correct amount of semi-fluid grease can cause premature failure of the Pre-Set wheel end system

IMPORTANT!
ConMet requires that hubs with a fill hole between the bearings be used if semi-fluid grease is the intended wheel end lubricant

IMPORTANT!
Use of a vented ConMet hubcap designed specifically for use with semi-fluid grease is required

These instructions are intended for original installation, as well as re-installation of hubs that have been removed in service.

- 1) Use only clean parts for service. All PreSet hubs are shipped ready for installation with a thin film of lubricant on the bearings (additional lubricant must be added after installation).
- 2) Hubs that have been removed during service require new gaskets and seals. Install the new seal using the procedure and equipment recommended by the seal manufacturer. Your warranty on ConMet PreSet™ hubs requires the use of the following seals and tools:

Eaton Outrunner™ Seals Used on PreSet™ Hubs & Installation Tools

(For your nearest Eaton Outrunner™ Dealer/Distributor, call the Eaton Help Line: 800-826-4357)

Part:	TN Trailer	TP Trailer
Seal:	859 Eaton Outrunner™	851 Eaton Outrunner™
Adapter Plate:	859T	851T
Handle:	800T	800T
Bearing Pilot:	BCT-13	BCT-12

CR ScotSeal Plus XL™ Seals Used on PreSet™ Hubs

(For your nearest CR ScotSeal™ Dealer/Distributor, call the CR Help Line: 734-354-5334)

Part:	TN Trailer	TP Trailer
Seal:	46300 CR ScotSeal Plus XL™	42627 CR ScotSeal Plus XL™

The CR ScotSeal Plus XL™ is a hand-installed seal

Stemco Endeavor™ Seals Used on PreSet™ Hubs & Installation Tools

(For your nearest Stemco Endeavor™ Dealer/Distributor, call the Stemco Help Line: 800-527-8492)

Part:	TN Trailer	TP Trailer
Seal:	373-0343 Stemco Endeavor™	373-0323 Stemco Endeavor™
Adapter Plate:	551-5412	551-5401
Handle:	551-0001	551-0001
Bearing Pilot:	570-0026	570-0025

- 3) Light corrosion that forms on spindles during storage or use must be removed with a fine abrasive. When the residue is cleaned away, the bare spindle is again subject to corrosion and must be covered with a thin film of No. 2 grease, preferably an extreme pressure grease containing molybdenum disulphide, for corrosion protection. Make sure that both bearing journals are coated.
- 4) The hub assembly should include the plastic shipping cap to properly align the hub as it is installed on the axle. Lubricate the inside diameter of the seal with a light film of semi-fluid grease and install the PreSet™ hub all the way onto the spindle. Allow the temporary plastic alignment sleeve, if present, to be pushed out of the PreSet™ hub as it is installed onto the spindle. If an alignment sleeve was pushed out, it can be discarded.

Once the hub is on the spindle, **do not remove the outer bearing**. Removing the outer bearing may cause the seal to become misaligned, resulting in premature seal failure. If the hub is removed from the spindle a new seal must be installed prior to reinstalling the hub assembly on to the spindle.

- 5) Remove the plastic shipping cap and install the spindle nut. Torque the spindle nut to 300 ft-lbs. **Do not back off the spindle nut**. Engage any locking device that is part of the spindle nut system. If the locking system cannot be engaged when the nut is at 300 ft-lbs., **advance** the nut until engagement takes place and the nut is locked. If a double nut or jam nut system is being used, install the second nut with 200 ft-lbs. torque. Activate or engage any locking device.
- 6) Before installing the hubcap, apply a ring of semi-fluid grease around the spindle nut(s). This is intended to reduce the migration of semi-fluid grease outward through the bearing into the hubcap. Also coat the inner wall of the hubcap for this reason, but care should be taken not to clog the vent in the hubcap.
- 7) Install the hubcap. A ConMet-approved hubcap is required to ensure adequate venting. A Preset® hubcap will also aid in identifying the hub type. The hubcap bolt holes must be free of debris, such as silicon gasket sealer, to ensure that the bolts will tighten properly to avoid leaks. Always use new gaskets (see ConMet Technology Bulletin No. ENG-02-98 for more details on hubcap assembly). ConMet requires the use of minimum SAE Grade 5 bolts. Do not use split or star washers or split lock washers as they will allow contaminants to corrode the threads. Use only flat washers with no locking features.
- 8) Fill the hub with the proper amount of room temperature (68°F) semi-fluid grease through the fill hole in the hub. ConMet requires that hubs with a fill hole between the bearings be used if semi-fluid grease is the intended lubricant. The fill hole facilitates the addition of semi-fluid grease so both bearings are lubricated at start up. Hubs with a fill hole and SAE hydraulic "O" ring plugs are available in all popular trailer hubs from ConMet.



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CONMET HUBS WITH PRESET™ BEARINGS*

HUB TYPE	HUB MATERIAL	CASTING NUMBERS**	PRESET™ VOLUME* (FL OZ)
TN	Aluminum	102035 / 102610 10017979 / 10001896	18.8
TN	Aluminum	100164 / 101143	22.6
TN	Iron	10003636	27.0
TN	Iron	10023666	23.0
TP	Aluminum	100510 / 101259 10001216 / 10016225	41.4
TP	Aluminum	10016620	46.9
TP	Iron	10003654	55.0
TP	Iron	10025633	35.0

* Fill volumes were established with ConMet Hub Caps and FNOK Seals

** Hub Casting Numbers can be found cast onto the Flange of the hub

THIS DOCUMENT CONTAINS RECOMMENDATIONS BASED ON CONMET TESTS FOR TYPICAL ENVIRONMENTS. CONSOLIDATED METCO DOES NOT ASSUME ANY LIABILITY FOR FAILURES RELATED TO INSUFFICIENT LUBRICANT. LUBRICANT TYPE, AMOUNT, APPLICATION, AND MAINTENANCE IS THE RESPONSIBILITY OF THE END USER. FOR ADDITIONAL INFORMATION, SEE *CONMET ALUMINUM HUB INSTALLATION AND SERVICE GUIDELINES*, VISIT OUR WEB SITE AT WWW.CONMET.COM, OR CALL (800) 425-4827.

F	Added "ConMet-approved" hubcap wording	14104	10/6/2010	MRB
E	Added 10023666 fill volume.	13870	5/10/10	DJL
D	Added Stemco Endeavor seals and installation tools part numbers	13775	3/22/10	CCD
C	Added 10025633 fill volume.	13772	3/17/10	DJL
B	Added 10017979, 10016225, 10001896. Revised 10016620 to 46.9 was 46.4.	13408	8/3/09	MRB
REV	DESCRIPTION	ECN	DATE	BY