

TRIFECTA™ PRE-ADJUSTED HUB ASSEMBLY INSTALLATION INSTRUCTIONS



Follow the installation procedure and experience the safety, performance and confidence of having the Trifecta™ Pre-Adjusted Hub Assembly. By combining premiere STEMCO® wheel end technologies with the trusted Webb® hub in a single, pre-adjusted assembly, installation is faster and more secure. Plus, there is no need to purchase, install and adjust separate wheel end components and fasteners.

TOOLS REQUIRED FOR INSTALLATION

- Calibrated torque wrench capable of 250 ft./lbs.
- Sockets for all applications
- Towel and/or emery cloth to clean spindle
- Cleaning solvent or brake clean



Step 1

Begin by removing all burrs, rust, and contamination from spindle shoulder area. Spindle wheel seal shoulder needs to be cleaned back at least 3/4" so new seal can properly be seated.

Clean shoulder, bearing journals, threads, and keyway with solvent. Dry with clean cloth.



Step 2

Apply a light coat of lubricant (the same lubricant that will be used in hub) to the bearing journals on the spindle.



NOTE: The Discover® XR seal includes STEMCO's patented GlideLock™ technology, eliminating the requirement for seal ID pre-lubrication.



Step 3

Lifting the hub, align the Trifecta hub onto spindle, (take precaution so the wheel seal is NOT bumped on the spindle end) engage Zip-Torq® tang or D-Flat with axle keyway (as pictured), and slide the hub onto the spindle.



Step 4

Rotate the hub **clockwise** to engage the Zip-Torq® axle fastener and continue rotating manually until it stops.

NOTE: A clicking sound will be heard while rotating the hub; this means the Zip-Torq nut is working correctly.



Step 5

Unscrew and remove the Plastic axle fastener retainer and discard.



Step 6

Use a calibrated torque wrench to tighten Zip-Torq nut to 200-250 ft./lb. Rotate the hub one full rotation. Repeat this procedure two more times. Torque spec is the same for steer, drive and trailer applications.

NOTE: A range of 200-250 ft./lb. is acceptable.



Step 7

To complete installation, for steer applications, install the Defender ESP™ hub cap. For trailer applications, install Sentinel® or ESP plus hub cap.

For Defender hub cap, torque the hub cap bolts to 12-16 ft./lb. using a star pattern sequence. For aluminum hub cap, torque to 12-16 ft./lb.

NOTE: If using non-driven axle with STEMCO 343-4119 hub cap, torque hub cap nut to 60-75 ft./lb.



Step 8

Add oil through hub side fill plug, hub cap side fill plug, or hub cap window. Add oil to the fill line on the hubcap window. See table below for oil sump capacities. Install drive axle shaft and gasket and torque axle flange nuts to between 100-150 ft./lb.

SUMP CAPACITIES BY APPLICATION – OIL

FF 5.44	FF 5.06	FL	R	P	N
15.5 oz	15 oz	20 oz	32 oz	34 oz	19.7 oz

NOTE: The volumes listed above are suggested amounts to fill the hub cavity to hub cap "full" line (where applicable). The actual volume used should be verified and adjusted for components used.



Step 9

If filling through hub side fill port, torque to 20-25 ft./lb. For aluminum hub cap side fill plug, torque to 5-9 ft./lb. For Defender hub cap side fill plug, torque to 20 in./lb.

On drive axle applications it is recommended to refill differential housing, and then jack the opposite side of the axle housing up 8-10 inches. Hold this for one minute to allow lubricant to flow to hub, and repeat for other side. Put truck back on level ground and top off differential housing with oil.



Step 10

If filling through the hub cap window, reinstall the plug.

HUB PART NUMBER CROSS REFERENCE FOR CONMET TO TRIFECTA

ConMet PreSet						Truck OE Applications					Trifecta						
Hub Part No.	Offset	Material	Stud Standout	GAWR	Weight (lbs.)	DTNA	PACCAR	Navistar	Mack	Volvo	Assembly Part No.	Spindle Type	Offset	Material	Stud Standout	Weight (lbs.) ¹	
FF - FRONT AXLE - DRUM BRAKE																	
10082200	5.44"	Aluminum	2.47"	13.2K	39	•					453-0236	D-Flat	5.44"	Iron	3.19"	52	
											453-0237	Tang	5.44"	Iron	3.19"	52	
10082201	5.44"	Aluminum	2.92"	13.2K	39	•					453-0236	D-Flat	5.44"	Iron	3.19"	52	
											453-0237	Tang	5.44"	Iron	3.19"	52	
10082202	5.44"	Aluminum	2.47"	14.6K	46	•					453-0236	D-Flat	5.44"	Iron	3.19"	52	
											453-0237	Tang	5.44"	Iron	3.19"	52	
10082203	5.44"	Aluminum	2.97"	14.6K	47	•					453-0236	D-Flat	5.44"	Iron	3.19"	52	
											453-0237	Tang	5.44"	Iron	3.19"	52	
10082204	5.44"	Iron	2.60"	14.6K	55	•					453-0236	D-Flat	5.44"	Iron	3.19"	52	
											453-0237	Tang	5.44"	Iron	3.19"	52	
10082205	5.44"	Iron	3.06"	14.6K	56	•					453-0236	D-Flat	5.44"	Iron	3.19"	52	
											453-0237	Tang	5.44"	Iron	3.19"	52	
10082206	5.06"	Aluminum "Turbo"	2.47"	13.2K	39		•	•	•		453-2236	D-Flat	5.06"	Iron	3.19"	53	
											453-2237	Tang	5.06"	Iron	3.19"	53	
10082207	5.06"	Aluminum "Turbo"	2.92"	13.2K	39		•	•	•		453-2236	D-Flat	5.06"	Iron	3.19"	53	
											453-2237	Tang	5.06"	Iron	3.19"	53	
10082209	5.06"	Aluminum	2.97"	14.6K	44		•	•	•		453-2236	D-Flat	5.06"	Iron	3.19"	53	
											453-2237	Tang	5.06"	Iron	3.19"	53	
10082210	5.06"	Iron	2.60"	14.6K	52		•	•	•		453-2236	D-Flat	5.06"	Iron	3.19"	53	
											453-2237	Tang	5.06"	Iron	3.19"	53	
10082211	5.06"	Iron	3.06"	14.6K	53		•	•	•		453-2236	D-Flat	5.06"	Iron	3.19"	53	
											453-2237	Tang	5.06"	Iron	3.19"	53	

ConMet PreSet						Truck OE Applications					Trifecta						
Hub Part No.	Offset	Material	Stud Standout	GAWR	Weight (lbs.)	DTNA	PACCAR	Navistar	Mack	Volvo	Assembly Part No.	Spindle Type	Offset	Material	Stud Standout	Weight (lbs.) ¹	
FL - FRONT AXLE - DRUM BRAKE																	
10082213	4.29"	Aluminum	3.27"	20K	57	•	•	•	•	•	453-0264	Tang	4.29"	Iron	3.35"	74	
10082214	4.29"	Iron	2.76"	23K	77	•	•	•	•	•	453-0264	Tang	4.29"	Iron	3.35"	74	
10082215	4.29"	Iron	3.30"	23K	78	•	•	•	•	•	453-0264	Tang	4.29"	Iron	3.35"	74	
R - DRIVE AXLE - DRUM BRAKE																	
10082216	Long Barrel	Aluminum	2.94"	23K	52	•	•	•	•	•	453-0273	—	Long Barrel	Iron	4.06"	72	
10082217	Long Barrel	Aluminum	3.81"	23K	53	•	•	•	•	•	453-0273	—	Long Barrel	Iron	4.06"	72	
10082218 ¹	Long Barrel	Iron	3.06"	26K	64	•	•	•	•	•	453-0273	—	Long Barrel	Iron	4.06"	72	
10082219 ¹	Long Barrel	Iron	3.97"	26K	65	•	•	•	•	•	453-0273	—	Long Barrel	Iron	4.06"	72	
TRAILER PARALLEL SPINDLE (P) - DRUM BRAKE																	
10082225		Aluminum	3.80"	23K	44						453-0243	Tapered "N"		Iron	4.16"	59	
10082227		Iron	4.08"	23K	54						453-0243	Tapered "N"		Iron	4.16"	59	
10082229		Aluminum	3.81"	25K	50						453-0223	Parallel "P"		Iron	4.16"	62	
10082231		Iron	4.08"	25K	63						453-0223	Parallel "P"		Iron	4.16"	62	

¹ Aftermarket Steer Axle Assemblies Include Defender ESP Hubcap (weight not included in Trifecta Assembly figures)
¹ ConMet "Side Pull" Designs