

Standard / Grit Guard® Seal Installation

- STEP 1.** Remove all burrs from the hub bore and spindle. Clean and inspect the spindle, threads, and seal shoulder. These areas are to be free of debris, rust, weld splatter, and loose particles or build up of any type. Thoroughly clean the entire wheel cavity. Apply a thin layer of No. 2 sealant to the O.D. of the spindle shoulder. Place the axle ring on the spindle.
- STEP 2.** Using the recommended STEMCO Axle Tool, drive the axle ring on until the tool bottoms against the spindle shoulder. Make certain the axle ring is flush with the shoulder. Wipe away any excess sealant. (See **FIGURE A**)
- STEP 3.** Orient the hub such that the inner bearing cup is up, pre-lube the inner bearing and place it into the bearing cup. (See **FIGURE B**)
NOTE: When using grease, pre-pack the inner bearing before placement into the hub.
- STEP 4.** Apply a thin layer of No. 2 sealant to the OD of the seal and position the seal in the hub. Using the recommended STEMCO Universal Hub Tool, held in a vertical position, drive the seal into the seal bore until it is bottomed out. Check the clearance between the bearing cone and seal (at least 1/32nd is required). (See **FIGURE C**)
- STEP 5.** With the wheel mounted on a dolly, carefully align the bore with the spindle. Gently push the wheel assembly on to the spindle to the proper position. Pre-lube the outer bearing and push it into the bearing cup. Hand tighten the axle nut to hold the outer bearing in place before removing the wheel dolly. (See **FIGURE D**)
NOTE: When using grease, pre-pack the outer bearing before placement into the hub. Follow TMC RP631B guideline for proper hub fill.
- STEP 6.** Install the axle fastener per the manufacturer's recommendations and TMC requirements for proper installation and endplay. (See **FIGURE E**)
- STEP 7. Steer and Trailer Axles:** Install the hub cap with a new gasket and fill the cavity with lubricant to the proper level.
Drive Axles: Install drive axle using a new gasket. Be sure the differential oil is high enough (see manufacturer's recommendation) to ensure oil flow through the axle to the hub. It is recommended to jack one side up and then the other to start lubricant flow.
All applications: Make sure the breather plug is clear. Recheck fill level (steer and trailer applications).

