

Guardian® HP Hub-Seal Installation

STEP 1. Remove all burrs from the hub bore and spindle. Thoroughly clean the entire wheel cavity. Apply a thin layer of No. 2 sealant to the O.D. of the spindle shoulder. Place the seal assembly on the spindle so the words "OIL BEARING SIDE" are exposed to the oil. **[See FIGURE A]** 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.

WARNING: DO NOT INSTALL THE SEAL INTO THE HUB BORE.

STEP 2. Using the recommended STEMCO Universal Axle Tool, drive the seal assembly on until the tool bottoms against the shoulder. **[See FIGURE B]** Make sure the ring is flush with the axle shoulder. Ensure seal fully contacts the wear ring flange. Wipe away any excess sealant.

STEP 3. Dip the inner bearing in oil and place on the spindle.
NOTE: The O.D. of the seal must be coated with a thin coat of the same lubricant used in the hub.

NOTE: When using grease, pre-pack the inner bearing before placement on the spindle.

STEP 4. With the hub mounted on a wheel dolly, carefully push the hub onto the spindle until it contacts the seal. **[See FIGURE C]** Dip the outer bearing in oil and place it on the spindle. Hand-tighten the axle nut to hold the outer bearing in place before removing the wheel dolly.

NOTE: When using grease, follow TMC RP631B guideline for proper hub fill. Pre-pack the outer bearing before placement into the hub. Clean the back side of the wheel end if excess lubricant is present.

STEP 5. Tighten to 200 ft-lbs and rotate the wheel several times. Then back off nut one full turn. **[See FIGURE D]** Install the axle fastener per the manufacturer's recommendations and TMC requirements for proper installation and endplay.

STEP 6. 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).

