

Voyager® and Discover® Hub-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.

NOTE: DO NOT apply any sealant to the spindle shoulder. Apply a light coat of lubricant to spindle surfaces.

STEP 2. 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 A)

NOTE: When using grease, pre-pack the inner bearing before placement into the hub.

STEP 3. Place the seal on the recommended STEMCO Installation Tool, with the correct head, so that the words "Air Side" face into the tool. Place the tool (with the seal correctly mounted in the tool head) over the hub bore. Use a 3 to 5 pound hammer to drive the seal into the bore until complete bottoming is assured. Remove Tool. (See Figure B) Apply a thin layer of lubricant on the ID surface of the seal.

NOTE: DO NOT apply lubricant to the OD of the seal. DO NOT apply sealant to the seal OD or ID.

STEP 4. With the wheel mounted on a wheel dolly, carefully align the seal with the spindle. Gently move the hub/wheel assembly back on the spindle until the seal is completely installed on the spindle shoulder. (See FIGURE C) 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.

NOTE: When using grease, follow TMC RP631B guideline for proper hub fill. Pre-pack the outer bearing before placement into the hub.

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

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).

