

# TECHNICAL PROCEDURE

## TRAILER SUSPENSION SYSTEMS AIR DISC BRAKE (ADB)

**SUBJECT:** Hub and Rotor Assembly  
Caliper Mounting Procedures

**LIT NO:** T71004

**DATE:** October 2017

**REVISION:** E

### ROTOR TO HUB ASSEMBLY

Not all hub and rotor assemblies are the same. Refer to the applicable procedure listed in this section.

**NOTE:** The hub and rotor assembly must be installed before mounting the ADB caliper.

**NOTICE:** Thoroughly inspect rotor condition before reuse. For details, refer to *T72009 MAXX22T™ Installation & Maintenance* or rotor manufacturer.

**IMPORTANT:** Hendrickson does not recommend reusing fasteners.

**CAUTION:** DO NOT lift an ADB caliper assembly by the brake pad retainer bracket.

For more safety and precautionary statements, refer to Hendrickson literature number [T12007](#), available at [www.Hendrickson-intl.com/TrailerLit](http://www.Hendrickson-intl.com/TrailerLit).

### FLANGED MOUNTED HUB AND U-SHAPED ROTOR

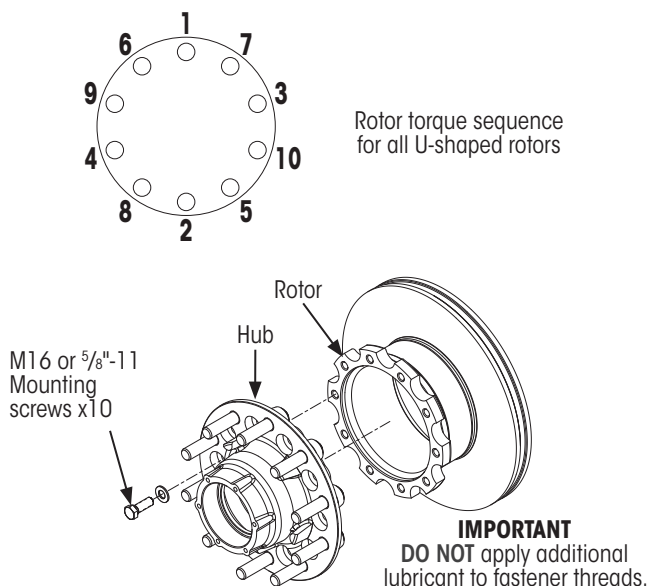


Figure 1: Flange mounted hub & U-shaped rotor assembly

1. Ensure both hub and rotor mounting surfaces are clean and free of loose dirt, corrosion, grease, and debris.
2. Place the rotor onto a stable work surface with the outboard mounting surface facing upward.
3. Carefully lower the hub onto the rotor until the hub mounting pilot engages the rotor bore.
4. Align fastener holes and insert new screws and washers.
5. Hand tighten.
6. Properly constrain assembly and tighten mounting screws, in the sequence shown in [Figure 1](#), to  $220 \pm 10$  ft. lbs. ( $300 \pm 10$  Nm) of torque.

**NOTE:** Ensure the heads of the new screws are recessed below the flange wheel mounting surface.

### STUD MOUNTED ROTOR

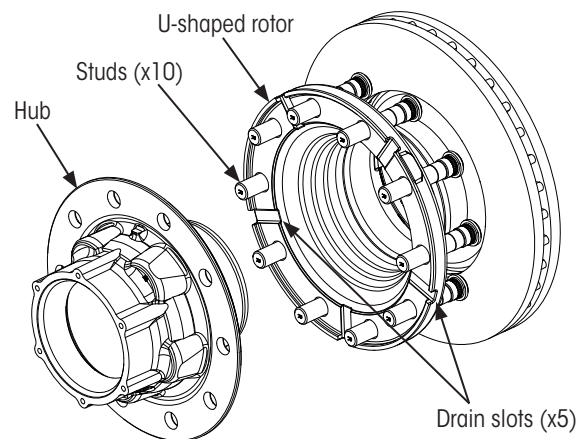


Figure 2: Hendrickson stud mounted hub & U-shaped rotor assembly

Refer to [T82006](#) for disassembly or stud replacement procedures.

## BENDIX SPLINED DISC® ROTOR ASSEMBLY

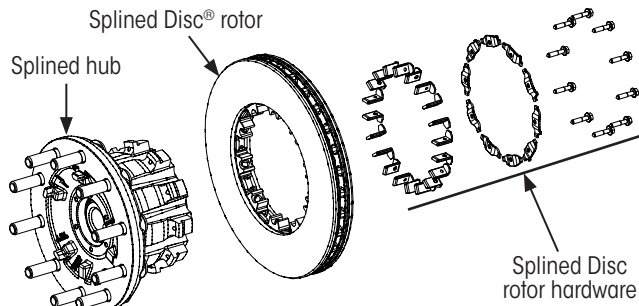


Figure 3: ConMet hub & Bendix Splined Disc rotor assembly

For rotor information, refer to the [Bendix website](#).

## CONMET FLAT ROTOR AND HUB ASSEMBLY

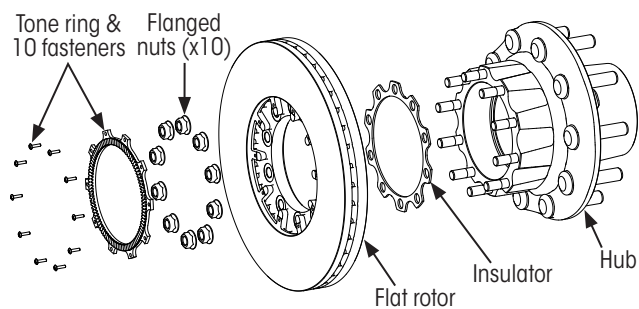


Figure 4: ConMet hub & flat rotor assembly

Refer to [ConMet website](#).

## MOUNTING CALIPER TO TORQUE PLATE

1. **Ensure** both torque plate and caliper mounting surfaces are clean and free of loose dirt, corrosion, grease and debris.
2. **Align and place** caliper over rotor and against torque plate.

**NOTE:** If included with pre-assembled pads, pad spacers should pop out as caliper is positioned onto rotor.

3. **Insert and hand tighten** the six new mounting screws and washers.
4. **Visually inspect** to ensure proper placement.
5. **Select** the applicable socket listed in [Table 1](#).
6. **Tighten** mounting screws, in sequence shown in [Figure 5](#), to the specified torque listed in [Table 1](#).

7. If not pre-assembled, **install brake pads** and complete installation according to caliper manufacturer's procedures.

BRAKE	TORQUE PLATE	FASTENER (socket size)	TORQUE	
			ft. lbs	Nm
Hendrickson MAXX22™	A	27 mm	280±11	380±14
Bendix ADB 22X™	See Bendix Technical Bulletin TCH-023-002 and SD-23-7541 located in the Bendix Document Library at <a href="http://www.Bendix.com">www.Bendix.com</a>			
WABCO PAN™ 19 & 22	B	30 mm	350±25	475±33
WABCO PAN 17	C	22 mm	140±15	190±20

Table 1: Torque plate/caliper fastener specifications

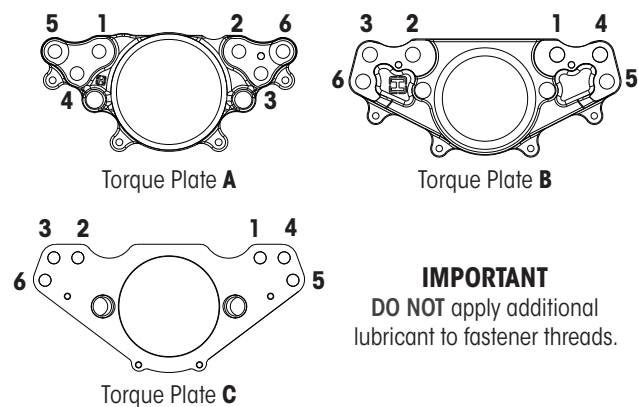


Figure 5: Torque plate torque sequence

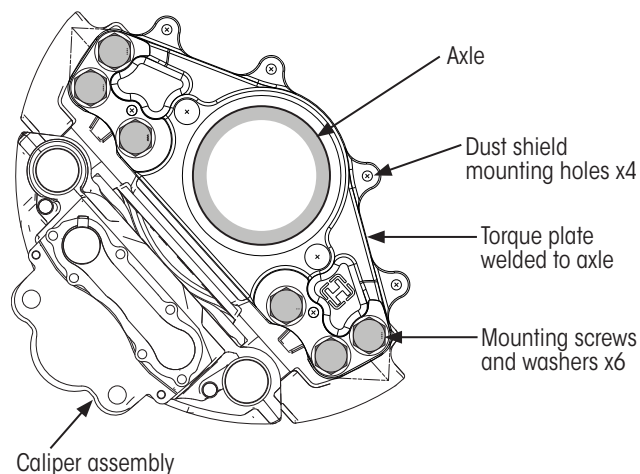


Figure 6: Typical torque plate/caliper assembly

Call Hendrickson at **866.RIDEAIR (743.3247)** for additional information.



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