TIREMAAX® General Installation Guide

**1 Determine Controller Mounting Location**

- Controller must be installed on solid tube or plate where valve stems will be located.
- On Hendrickson A/P spindle axles, mounting holes are provided. On TIREMAAX® CP models, a mounting bracket is included to adapt the enclosure to the spindle axle.

- On suspensions without mounting holes, pick a mounting location that is accessible and protected from environmental factors and drill holes to accommodate mounting bracket or enclosure mounting flange.

**2 Connect Wiring Harness Into ABS Harness**

- Connect bullet connector to TIREMAAX indicator lamp at front of trailer.
- Using plastic tie, secure harness within trailer structure for protection.
- Delicate wires can be added to all connections to inhibit corrosion.

**3 Route Air Lines**

- Air lines should be tightened snug, plus one-half turn.
- Refer to Hendrickson publication L818, TIREMAAX® EC Installation, Service and Troubleshooting Procedures or L995, TIREMAAX® CP Installation, Service and Troubleshooting Procedures for complete air line routing requirements and details.
- Using plastic tie, secure air line to trailer frame.

**4 Install Rotary Joint (Undressed Axles)**

- If axle hose is threaded, hose-end adapter is not needed.
- Insert bulkhead adapter into hole in hubcap, aligning flat on bulkhead adapter with flat on hubcap (indicator face outward, or away from hubcap). (Do not use pliers or any kind of wrench to pull bulkhead adapter through hole in hubcap. This could cause bulkhead adapter to rotate after it engages in hubcap, permanently damaging rotory union or hubcap.)

**5 Install Hubcap Assembly (Undressed Axles)**

- Lubricate the O-ring on the rotary joint bulkhead adapter with some lubricant supplied in hub.
- Install hubcap making sure rotary joint hub is not stressed or locked. Secure only with both bolts at this time.
- Check for leaks and verify proper operation. Use a commercially available air leak detector solution and the system integrity check procedure described in Hendrickson publication L818, TIREMAAX® EC Installation, Service and Troubleshooting Procedures or L995, TIREMAAX® CP Installation, Service and Troubleshooting Procedures. When all connections are seated, install balance of hubcap bolts and tee fitting guard. Tighten hub cap bolts to 12 - 18 ft. lbs. (16 - 24 Nm) of torque.
- Tighten jam nut to 15 ft. lbs. (20 Nm) of torque and fill hub with lubricant to correct level (if oil filled).

**6 Install Tee Fitting and Tire Hoses at Each Wheel End**

- DO NOT STRETCH OR NEATEN TIRE HOSES. Any tension on the tire hoses will stress the tee or elbow fitting to the point that the hose will be pinched or stretched, which can cause failure.
- Tire hoses must not be stretched or kinked at the inflatable portion of the tee fitting.
- When installing the tee / elbow fitting (all wheel configurations)

- To avoid the potential for failure and system damage, when using a rotary joint assembly, the clamp must be installed in the following manner:
  - Before crimping, install a flat, anti-rotation clamp inner surfaces must touch for proper installation.
  - After crimping, clamp must be seated as shown in the applicable illustration.
- Do not overtighten the knurled tire hose nut.
- If axle hose has a plain end, use hose-end adapter to connect axle hose at each spindle to rotary joint assembly. Do not overtighten the knurled tire hose nut.

- Before crimping, install a flat, anti-rotation clamp inner surfaces must touch for proper installation. After crimping, clamp must be seated as shown in the applicable illustration.
- Do not overtighten the knurled tire hose nut.
- Tee fitting and elbow fitting

- When properly seated, bushed elbow adapter is flush with top of jam nut when jam nut is hand tightened. COULD LEAD TO WHEEL-END FAILURE
- Install hubcap making sure rotary joint hub is not stressed or locked. Secure only with both bolts at this time.
- Check for leaks and verify proper operation. Use a commercially available air leak detector solution and the system integrity check procedure described in Hendrickson publication L818, TIREMAAX® EC Installation, Service and Troubleshooting Procedures or L995, TIREMAAX® CP Installation, Service and Troubleshooting Procedures. When all connections are seated, install balance of hubcap bolts and tee fitting guard. Tighten hub cap bolts to 12 - 18 ft. lbs. (16 - 24 Nm) of torque.
- Tighten jam nut to 15 ft. lbs. (20 Nm) of torque and fill hub with lubricant to correct level (if oil filled).

**IMPORTANT:** After the installation is complete, perform a system air leak check using a regulated shop air supply that is at or below the desired target pressure (60 psi minimum). Refer to the section titled SYSTEM INTEGRITY CHECK in Hendrickson publication L818 (EC models) or L995 (CP models) for complete system leak checking details.