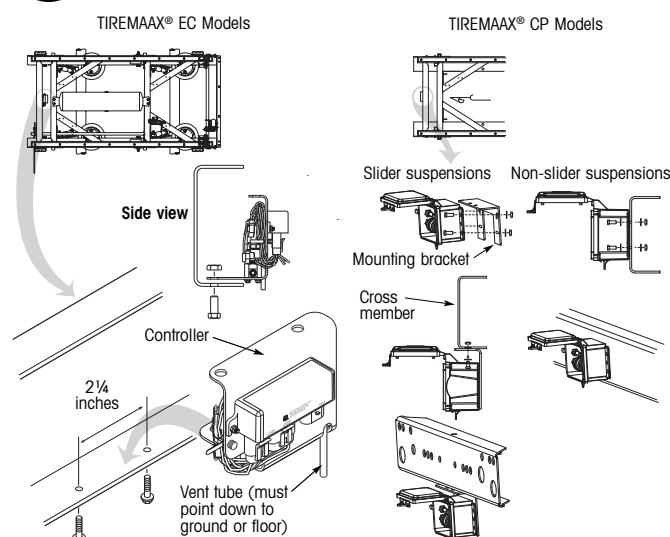


TIREMAX® General Installation Guide

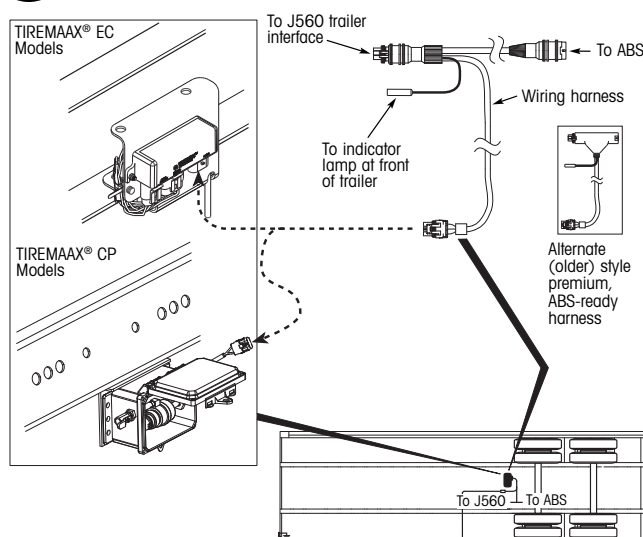
L902 Rev B 02-08

1 Determine Controller Mounting Location



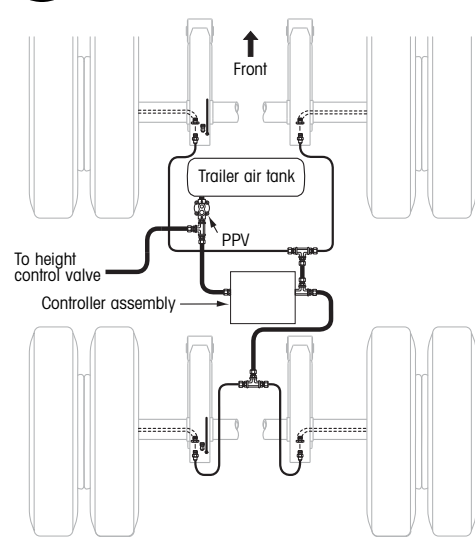
- Controller must be installed so vent tube or petcock valve points down to floor or ground
- On Hendrickson K-2® slider boxes, mounting holes are provided. On TIREMAX CP models, a mounting bracket is included to adapt the enclosure to the slider box
- On suspensions without mounting holes, pick a mounting location that is accessible and protected from environmental hazards and drill holes to accommodate mounting bracket or enclosure mounting flange

2 Connect Wiring Harness Into ABS Harness



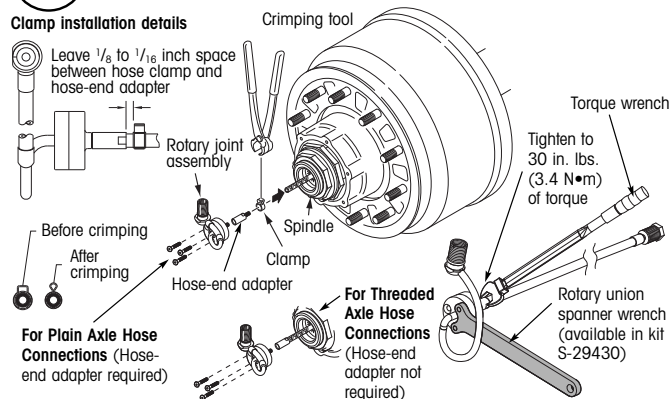
- Connect bullet connector to TIREMAX indicator lamp at front of trailer
- Using plastic ties, secure harness within trailer structure for protection
- Dielectric grease can be added to all connections to inhibit corrosion

3 Route Air Lines



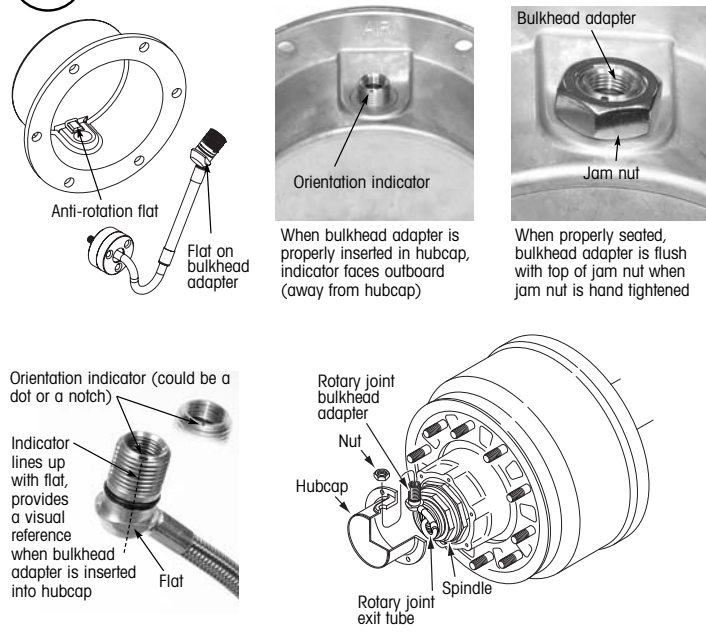
- Air lines should be tightened snug, plus one-half turn
- Refer to Hendrickson publication L818, *TIREMAX® EC Installation, Service and Troubleshooting Procedures* or L995, *TIREMAX® CP Installation, Service and Troubleshooting Procedures* for complete air line routing requirements and details
- Using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

4 Install Rotary Joint (Undressed Axles)



- If axle hose has a plain end, use hose-end adapter to connect axle hose at each spindle to rotary joint assembly and crimp clamp to seal. **Clamp inner surfaces must touch for proper seal (see illustration above).** If axle hose is threaded, hose-end adapter is not needed.
- Use spanner wrench to tighten axle hose connection to 30 in. lbs. (3.4 N•m) of torque
- Mount rotary joint assembly to spindle plug with three T20 Torx fasteners. When aligning holes in rotary joint assembly with holes in spindle plug, rotate rotary joint assembly **CLOCKWISE ONLY** to prevent loosening torqued connection.
- Tighten fasteners to 45 ± 5 in. lbs. (5 ± 1/2 N•m) of torque

5 Install Hubcap Assembly (Undressed Axles)

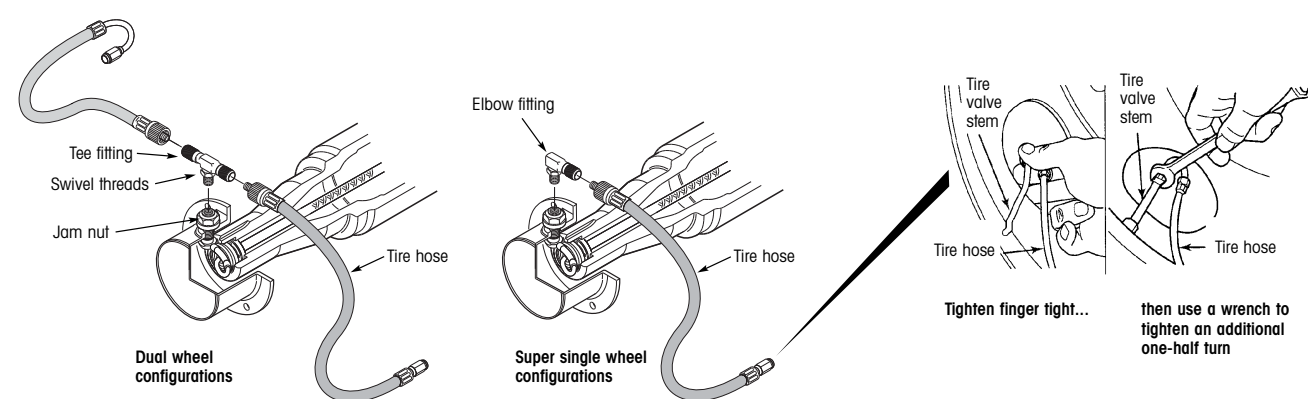


- Lubricate the O-ring on the rotary joint bulkhead adapter with same lubricant used in hub
- Insert bulkhead adapter into hole in hubcap, aligning flat on bulkhead adapter with anti-rotation flat in hubcap (orientation indicator faces outboard, or away from hubcap). **Do not use pliers or any kind of wrench to pull bulkhead adapter through hole in hubcap. This could cause bulkhead adapter to rotate before it engages flat in hubcap, potentially damaging rotary union or hubcap.**

⚠ WARNING: FAILURE TO PROPERLY ALIGN FLATS AS DESCRIBED WILL RESULT IN WHEEL-END CONTAMINATION AND COULD LEAD TO WHEEL-END FAILURE

- Attach jam nut and hand tighten. Bulkhead adapter threads must be flush with top of jam nut when jam nut is hand tightened
- Install hubcap making sure rotary joint tube is not stressed or kinked. Secure only with two bolts at this time
- Check for air leaks and verify proper operation. Use a commercially available air leak detector solution and the system integrity check procedure described in Hendrickson publication L818, *TIREMAX® EC Installation, Service and Troubleshooting Procedures* or L995, *TIREMAX® CP Installation, Service and Troubleshooting Procedures*. When all connections are airtight, install balance of hubcap bolts and tee fitting guard. Tighten hub cap bolts to 12 - 18 ft. lbs. (16 - 24 N•m) of torque.
- Tighten jam nut to 15 ft. lbs. (20 N•m) of torque and fill hub with lubricant to correct level (if oil filled)

6 Install Tee Fitting and Tire Hoses at Each Wheel End



When installing the tee / elbow fitting (all wheel configurations)

- Install tee (or elbow) fitting and tighten to 130 ± 10 in. lbs. of torque. Use two wrenches to achieve final torque. One wrench holds the jam nut stationary while the other tightens the swivel threads. To approximate 130 in. lbs., tighten swivel threads hand tight then use the two wrench method to tighten the swivel threads one additional turn.

- Tire hoses must be connected directly to tire valve stems and tee (or elbow) fitting (do not use valve stem extenders)

- Attach tire hoses to tire valve stems finger tight, then use a wrench to tighten an additional one-half turn. Attach tire hoses to tee (or elbow) fitting finger tight. Using pliers, carefully and gently verify that the hose connection is tight. Do not overtighten the knurled tire hose nut. Doing so will bend the tee / elbow fitting stem and compromise the integrity of the internal tee / elbow fitting components. Do not damage the knurled finish on the tire hose nut. Doing so will make tire hose removal extremely difficult. Recheck hose connection at valve stem. Verify that valve stem connection did not loosen during the tee fitting connection process.

⚠ 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.

⚠ Read Hendrickson Publication L818, *TIREMAX EC Installation, Service and Troubleshooting Procedures* (available at www.hendrickson-intl.com/pdfs/trailer_pdfs/L818.pdf) or L995, *TIREMAX CP Installation, Service and Troubleshooting Procedures* (available at www.hendrickson-intl.com/pdfs/trailer_pdfs/L995.pdf) and follow all safety rules and instructions therein before operating this system.

For The Road Ahead™

Questions? Call the Hendrickson technical service department at 800-455-0043 in the United States or 800-668-5360 in Canada.

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