

CAUTION Take all necessary safety precautions to avoid personal injury while performing installation.

1 Mount Controller

A. Slider mount

NOTICE: If mounted too high, controller will hit stop bar.

Three mounting holes (top, middle and bottom) on each flange of the controller are available for mounting on slider front cross member, only use the top and middle pair, as shown. Four holes (two pair) are pre-drilled in the cross member for this purpose.

B. Non-slider mount

Select a location that is accessible and protected from environmental hazards. Mount directly to trailer frame, as shown, or use optional bracket. ("C").

C. Optional Bracket

IMPORTANT: The controller must be mounted as shown, hinge at top, to allow purging of fluids which might collect in valves.

2 Controller Electrical Connections

- Two harness types are available from Hendrickson: ABS Junction Wire Harness (3 or 15 foot length) or the Standard harness. If the standard harness is used, refer T51002 TIREMAAX PRO & CP Installation, Service and Troubleshooting for wiring diagram.
- Indicator lamps, shown, can be purchased from Hendrickson. If not, it must be provided by OEM and compatible with tractor uninterrupted power.
- The indicator lamp must be placed in a location clearly visible by driver while in driver's seat. Recommended assembly torque is 17.5 ±2.5 in-lbs (2.0 ±3 N•m) with a #10 machine screw.

- All cables and wires must be properly secured to prevent snagging and unnecessary motion.
- Route cables and wires to avoid sharp edges and/or provide protective measures (grommets and/or loom) to prevent damage.

IMPORTANT: Secure harness so no bending load or tension is applied to connectors.

3 Pneumatic Plumbing Connections

IMPORTANT: Use plastic ties to secure air lines to suspension and trailer frame as needed.

NOTE: To maintain adequate airflow, all air lines coming into and going out of the controller assembly must be 3/8 inch. All junctions of two or more 1/4 inch lines must be supplied by 3/8 inch line.

Supply air
Emergency supply IN (For Pro only)
Delivery air (No elbow at port)
Two-way airflow for PRO only
Trailer air tank
Optional manifold shown, T-fittings are OK
To height control valve
Front

4 Install Hubcap

- Draw just enough axle hose out from center of spindle to attach axle hose fitting to rotary union inside hubcap.
- Place hubcap gasket over axle hose for later positioning.
- Hand thread rotary union onto axle hose fitting. **DO NOT rotate axle hose fitting.**
- Using an inch-pound torque wrench on the 7/16 inch flats on rotary union shaft and 3/8 inch wrench on flats of the axle hose fitting, tighten connection to 50 ±5 in. lbs. (5.7 ±6 N•m).
- Place two opposing bolts in hubcap and align gasket to bolts.
- Orient hubcap for best tire hose positioning and align holes with hub face threaded holes. Hand-tighten the two bolts.
- Install remaining four hubcap bolts and hand-tighten.
- Torque 6 hubcap bolts in numerical order shown in the figure on left. Torque is 15 ±3 ft. lbs. (20 ±4 N•m).

NOTE: Shaft has pre-applied dry thread locker. Loctite or other thread locking compound is not required.

NOTE: For clocking of tire hose positioning, review Tire Hose Installation in T51002 before proceeding.

IMPORTANT: Clocking of hubcap is required to ensure proper tire hose installation. This can be accomplished with rotation of hubcap or wheel (preferred) relative to tire hose connections.

5 Tire Hose Connections

Clocking: 60° - 90°

Super Single
Dual wheels

- Hold tire hose with free hand to prevent side loading and avoid cross threading. The knurled nut, at hubcap, should easily turn 3 to 4 rotations by hand. Any drag before 3 turns suggests cross threading.
- Make sure tire hose is not stretched so tightly a strain is introduced at either the valve stem or hubcap.
- Make sure the tire hose is not so loose it contacts the wheel.
- Check to ensure no portion of the tire hose extends out past the wheel.

Hand-tighten to stem, then use wrench to tighten additional one-half turn.

Hand-tighten to hubcap. Using pliers, carefully and gently verify the hose connection is tight.

6 Test for Leaks

After completing installation Steps 1 - 5, perform leak checks with shop air and test gage (recommended). After rated pressure is reached, ensure the gage remains steady while supply is shut off. Use soapy water solution to locate leaks. For complete SYSTEM INTEGRITY CHECK procedures, refer to T51002.

Refer to Hendrickson T51002 TIREMAAX PRO & CP Installation, Service and Troubleshooting for a complete set of instructions. Available online at www.Hendrickson-intl.com/Literature.