



INSTALLATION INSTRUCTIONS

Tools and Equipment required to ensure ease of installation

1. Lifting device for single tires
Note: It is advisable to lift the wheel off the ground to eliminate the possibility of the tire bead releasing from the rim.
2. New valve core / Valve core removal tool / Clean damp rag.
3. Supply of compressed air or nitrogen to re-inflate tire.
4. Tire pressure gauge (*use a commercial calibrated gauge*).
5. Tire paint marker (mark all treated tires with a paint marker).
6. Sahara tracking sheet (optional available through your distributor).
7. Tire Bead Seating Tool (may be required to seat a broken bead).
8. New Valve stem (Replace when mounting new tires).

Installing Sahara/Phantom

- a) Each pail of Sahara or Phantom contains 640 Oz's of product. Store unopened pails upside down.
- b) Rinse hand pump thoroughly with warm water after use of each pail.

- Step 1. Remove the plastic lid by tearing the side seal strip with a pair of nose pliers and replace it with the metal lid. Screw on the return valve stem (240-115) to the cover. Set the metal lid and tighten with wing screws to secure the metal lid to the pail. Insert the metal pump piston into the metal lid. Adjust the pump so that it is an inch off the bottom of the pail and screw into place. Attach the plastic hose to female outlet in T-handle to complete assembly. Connect the quick connect coupler (240-127) to the return valve stem and prime the pump by giving 5 full strokes before first use. Pull the piston rod all the way up. A full stroke will pump out 10 ounces.
- Step 2. Determine **ounces per wheel (OPW)** based on the tire size. Refer to the application manual for appropriate tire size and type of tire size listed. If a tire size is not listed, use the formula on top of the chart or contact us.
- Step 3. Steer tires-We recommend that you jack the tire/wheel assembly slightly off the ground ~ 2 inches to avoid the tire breaking off the bead. For drive and trailer tires one wheel can support the other during installation.
- Step 4. Thoroughly inspect tire bead and valve areas with soapy water for any rim/bead leaks. Thoroughly inspect rims for damage caused by existing rust/pitting/corrosion. Severely rusted rims must be serviced prior to installing product.
- Step 5. Remove the valve core - deflate tire to approximately 25 PSI. Sahara does not seal the valve stem area so we recommend that you replace the valve core and examine the valve stem. Replace the valve stem if damaged or cracked.
- Step 6. Make sure that the pump piston is all the way up and then attach the quick connect to the valve stem (core out). Set one foot on the metal lid and push down the pump handle all the way down and pump the recommended ounces into the tire. 10 ounces per full piston stroke (**Pump piston rod is marked in 1oz increments up to 8 oz's. Fully**

extended piston draws 10 oz.'s). Locking ring around the piston rod is used to lock in ounce increments. E.g.: 58 ounces = 5 full strokes and lock the ring at the 8 marking.

Caution: Some product may discharge out of the valve stem from the back pressure. We recommend that you hold a rag over the valve stem before disconnecting the quick connect.

- Step 7. When the installation is complete remove the quick connect from the valve stem, wipe off the quick connect and clip it back to the brass return stem located on the black bung adapter. It will prevent dirt or loose debris from sticking to the quick connect and blocking it for future use. Wipe the valve stem and the rim area clean with a damp rag.
- Step 8. Replace and screw the **new valve core** and inflate the tire to its **correct cold** target pressure (Use a properly calibrated pressure gauge).
- Step 9. Mark tire with a tire paint marker. First treatment, start from the first letter of the make of tire. Enter data to the Sahara tracking sheet supplied by your distributor.
- Step 10. Remove all the wheels weights off the rim and any heavy mud build up. Sahara is designed to work as a wheel end balancer on medium truck and motorcycle tires.

If the product is not used for over two weeks we recommend that you re-prime the pump by giving it 5 full strokes.

Rinse hand pump thoroughly with warm water after use with each pail. Fill the pail with warm water and prime the warm water through the pump until all the product is washed out from the plastic tube. The pump is now good to go again.

Alternate application method

- Using a calibrated hand pump, inject Sahara/Phantom directly into the tire cavity before seating the bead to the rim.
- Pour Sahara/ Phantom in a jug with graduation marks and then pour into the tire cavity before mounting the tire.
- High Speed tires...the gel coats the entire casing based on centrifugal force. Slower the speed the faster it will coat the casing. It may take up to 75 miles of drive time from bead to bead.
- Off the road (OTR), Industrial and Agri tires only require a few tire rotations.
- For instant bead/rim leak repair remove the tire and let it sit flat on the ground for 30 minutes on the leak side to allow the product to seal the leak.
- For severe bead and rim leaks, remove the tire from the wheel or break the bead and dab a small amount of Sahara around the rim flange. Seat the bead and air up.

Note: If you remove a punctured object at a dock bay make sure you roll the tire to the punctured area so that the fibers can get through and plug the injury. Equipment weight on the tire will help open the wound so that the fibers can get through and plug the injury.

For additional assistance contact your distributor or email: sales@stallionmfg.com or call us at 1 (604) 990-0988 or toll free at +1 (877) 847-3596.