



ROADSMITH
TRIKE CONVERSIONS BY
THE TRIKE SHOP



Please thoroughly review the instructions before and during installation. Keep in mind that this product was designed to be installed by trained dealer technicians. If you are a do-it-yourselfer, be patient, trust your common sense, and if necessary call your dealer or contact The Trike Shop at 800-331-0705 if you run into any problems you cannot solve.

APPLICATION: HDST (Harley-Davidson Fatboy or Heritage trike)
PRODUCT: Replacement triple tree set for Fatboy or Heritage
VERSION: 1

WARNING: Front-end performance is a critical safety item
WARNING: Triple-trees should be installed by a qualified service technician
WARNING: Use only hard-chrome plated fork tubes - show-chrome tubes are not recommend

1. Make sure the motorcycle is properly secured when raised. Remember to balance it properly as you will be removing the complete front end.
2. Remove the front wheel assembly and fender
3. Remove the handlebars, front and rear fork covers, headlight, fork tube assemblies and mounting hardware as these will be reused. Finish removing the remaining triple tree assembly.
4. Fork stops for the new triple trees are machined as an integral part of the lower tree for 2000 and later model bikes. 1999 and earlier models will require the installation of the supplied spacers and 3/8-16 cap screws in the lower tree to control proper turning radius.
5. Replace the lower steering cup bearing race at this time if there are any signs of wear. Use the new lower neck bearing supplied.
6. Clean and repack the upper neck bearing with EP grease or replace if necessary. Apply anti-seize to the threads of the neck stem.
7. Slide the neck stem through the lower tree and place the dust shield and bearing over the stem. Install the assembly into the bottom of the frame neck.
8. Place the upper bearing and dust shield over the protruding stem, set the top tree in place and start the stem into the threads by hand. **DO NOT FORCE THE THREADS. (Cross threading is not covered by warranty).** The stem is machined to accept a 3/8" ratchet drive.
9. Snug the stem and test for smooth movement of the tree assembly. Do not tighten at this time. Proper neck stem torque is accomplished when no end-play is noticeable. Refer to your service manual for adjusting proper end-play and fall away. This will be done once the fork assembly and front wheel are installed.
10. Remove the stock fork tube plug from each tube by clamping the fork tube plug securely in a vise and turning the fork tube. CAUTION: TUBES ARE SLIGHTLY SPRING LOADED.

11. It is recommended the fork oil be changed at this time. Refer to your service manual.
12. After filling with new oil, install the supplied dual threaded fork tube plug. Be sure to install the o-ring on the large threaded side of the plug and the pipe plug on the opposite side. Use pipe dope or Teflon tape to seal the plug. Place the plug over the spring and compress the spring into the fork tube until the treads meet. This is best accomplished by clamping the fork tube plug in a vise and using the fork tube to compress the spring. Thread the tube onto the insert and tighten the assembly by hand.
13. Install new lower fork covers at this time.
14. Next, apply a small amount of anti-seize to the clamp bushing outside diameter. Apply blue loctite to the screw threads. Insert the 2-piece clamp bushing assembly into the lower tree clamp hole leaving the screw loose. Align the gap in the clamp bushing with the fork tube hole to allow the fork tube to pass through.
15. Check the fork tube hole for any sharp edges or burrs and completely remove before installing fork tubes. Apply anti-seize to the threaded end of the fork tube assembly. Install the tubes through the lower tree and thread into the upper tree as tight as possible BY HAND.
16. Secure tubes by tightening both clamp bushing screws to approximately 10ftlbs.
17. Check and adjust neck-bearing and-play and install set screw into rear of lower tree and tighten to lock steering stem in place.
18. Check for clearance with gas tank when turning front forks fully. 1999 and earlier models require the use of the supplied cap screws to maintain proper turning radius.
19. Reinstall front wheel and other components.