



DHS Racing
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DHS-3313 Steering Stem Tools Installation Instructions

1. Your tool kit consist of three pieces, reference figure 1. The top tool is used to install the new bearing races. The Middle tool is used to remove the old race's from the steering head. The last tool is used to install your new bearing on the steering stem.
2. Remove your Front Wheel, Forks, Triple Tree, Handle bars, and Top Bridge per instructions in your Shop Manual.
3. The Middle tool (figure 1) comes with two bars that screw onto the end of the long rod. Use the shorter of the two to remove the upper bearing race from the Steering stem. This is accomplished by inserting the tool from the bottom and aligning the square rod with rounded ends into the notches of the steering stem. Once you have it positioned a little tap on the rod is all that is needed.



Figure 1

4. Once the upper race is removed swap the rod ends so you are now using the larger one. From the top insert the tool and remove the bottom race in the same manner as you used in step #3.



Figure 2



Figure 3

8. The next step is to install the bearing races. The 1st item in figure 1 has multiple configurations to assist you in pressing the bearing races in the steering stem. The thin spacer has two different sized steps that align with the steering stem (see figure 2 & 3). This spacer is always located on the non treaded part of the tool(see figure 4). The large aluminum spacer has tapers that fit the bearing races (see figure 5). This spacer is always located on the treaded end.
9. Start by installing the upper (smaller) race. Place the thin spacer on the shaft with the large step pointing toward the threaded end. Insert the rod into the steering stem and place the small bearing race over the shaft with the taper up. Insert the large spacer with the small end down fitting into the bearing race. Using the washer and nut thread onto the shaft. Take up the slack and slowly tighten until you feel the race seat (If the shaft rotates while you are installing the race there is a hex at the bottom of the shaft for you to hold). There will be some resistance while you are pressing in the seat and should be obvious that the race is seated. (we will check it later).
10. Now reverse the tool configuration in order to install the lower race the same way as in step 6



Figure 4



Figure 5

8. Confirm that the races were installed correctly by using a punch (preferably brass) and a hammer. When you strike the punch on the race you should have a good solid sound and solid feel. Repeat as needed.
5. Next remove the old bearing from the steering stem using a cold chisel or suitably stout screwdriver.
6. After cleaning the steering stem, apply grease to the lower bearing and place onto the steering stem. Next use a small piece of wood or other suitable soft material to place under the steering stem, and use the 3rd tool in figure 1 to drive the bearing onto the steering stem (See Figure 4). It shouldn't take more than a couple of strikes to install.
7. Re-assemble the bike per specifications.