



NOTICE – PLEASE READ STEPS CAREFULLY & FOLLOW PRECISELY:

- 1) Remove the existing oil filter and clean the oil filter mount area of the engine. You will need a 1" 12 Point socket, a 8"+ extension, an Inch pound Torque Wrench and some engine oil.
- 2) Remove the HD-CXS2 Canister Cap and set the HD-CXS2 Canister on the bench open end up. Insert the Anti-Drain back valve into the canister with the outer cup facing the bottom of the canister (see drawing). It will be necessary to push the anti drain back valve down into the canister with the handle of a screwdriver to the bottom past the necked down area of the bore.
- 3) Then set the HD-CXS2 Canister on the bench closed end up. Place the lightly oil coated X-Ring or Quad-Ring in the face groove.
- 4) Insert the Port Nut into the 1" Socket attached to the extension with the threaded end facing out of the socket. Then insert the Port Nut into the canister bore and through the hole in the anti drain back valve and into the center hole of the bottom end of the canister. Making sure the shouldered area of the port nut is through the base of the housing.
- 5) While holding the Port Nut in place with the socket extension carefully put the canister in place on the engine holding it square to but away from the mounting face allowing the port nut to draw the canister to the face. Be careful not to dislodge the Quad-Ring from the canister groove while it meets the mount face.
 - i) Note the machined flat spot in the cooling fins. These are built into the housing to allow clearance of the crank position sensor on big twins that have it. Align flat spot over sensor if your bike has it; otherwise orient flat spot down and out of sight. Torque the Port Nut to 160 in. Lb.
- 6) Insert an HD-X Filter Cartridge into the mounted canister with the rubber grommet end in first so it seals against the installed Port Nut
- 7) Lightly oil the OR-140 O-Ring then install on the HD-CXS2 Canister cap over the threads against the bottom shoulder. Install the Cap with spring on the canister and tighten to 95 in.lb. **DO NOT OVERTIGHTEN.** It only has to thread in until the O-Ring is forced into the canister recess and the bottom face of the cap meets the canister face
- 8) Fill the engine oil tank with the specified amount of oil listed in the service manual. Start the engine and check for leaks after running for a couple minutes.

