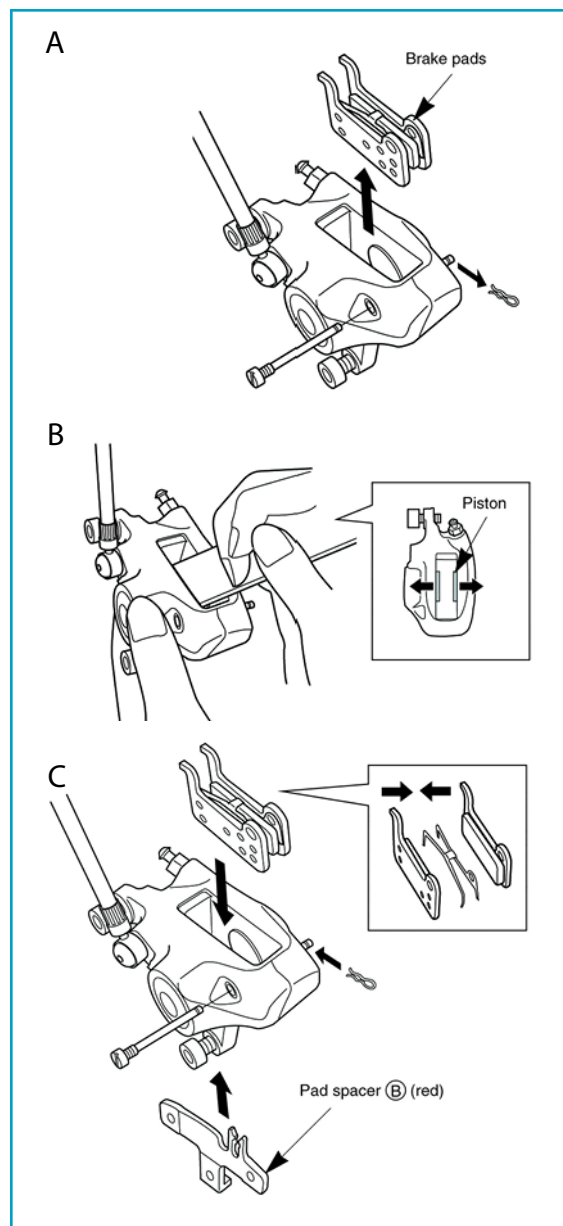


## Resetting the Pistons on all Shimano Hydraulic Brakes

If a Shimano Hydraulic Brake Lever is squeezed while the wheel/rotor is removed from the bike, or the brake pads are being replaced, you will need to reset the pistons. Follow the directions below

1. Remove the wheel/rotor, brake pads and spring, plus the reservoir top cap and diaphragm from the master cylinder reservoir Diagram A
2. Using a plastic tire lever, press both pistons, one at a time, into the caliper body to their fully retracted position. Diagram B
3. Secure the brake pads and spring with the pad axle (torque- 1.8-3.5 in lb), and insert the Orange Travel Spacer into the caliper. (If the travel spacer is not available use any Shimano rotor not attached to a hub as a spacer) Do Not let any mineral oil contact the rotor or pads, the rotor can be cleaned but the pads will be contaminated. Diagram C
4. With the spacer inserted and able to move freely squeeze the lever, the first time it will pull all the way to the grip, by the 3rd pull the lever should have full power. Squeeze the lever hard 2-3 times to "set" the pistons.  
The lever should move 1/3 its travel and start to firm up, 2/3's it should be very firm.
5. Check the brake fluid level and add only Shimano Mineral Oil if needed.  
(Make sure the fluid is a clear pink color, if it is cloudy or a different color contact Shimano Customer Service.)
6. Carefully replace the reservoir top cap and diaphragm paying close attention to the position of the spacers and top cap to prevent cutting or nicking the rubber piece. Clean up any overflow with rubbing alcohol and a clean rag.
7. Replace the wheel with the rotor and now adjust the caliper so the brake pads run drag free. Consult the Service Instructions for the proper installation of spacers or adapters.



Finally, be sure to use the "Travel Spacer" whenever the wheel is removed for transporting the bike. This will prevent the need to reset the pistons if the brake lever is activated.

### BRAKE CLEANING FLUID:

Isopropyl Alcohol is the best choice for cleaning Shimano disc brakes. It cuts through the mineral oil, grime, brake dust, and other foreign matter, dries quickly and leaves no residue. Isopropyl Alcohol is available at local Pharmacy and Supermarkets for typically less than \$2 a liter. While you're there, buy an empty spray bottle to use for your new "Brake Cleaner."  
REMINDER: Always use a clean shop towel while servicing brakes.

Do not use cleaners like: Contact Cleaner, Automotive Brake Cleaner, Citrus Degreaser, Any Automotive De-Greasers and Cleaners as these may have a negative effect on the seals and WILL void the warranty