

Juicy[®]

Hose Length Adjustment and Bleeding



POWERED BY SRAM

PLEASE READ THE SAFETY AND WARRANTY INFORMATION INSIDE

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SAFETY INFORMATION

Brakes are a safety-critical item on a bicycle. Improper setup or use of brakes can result in loss of control or an accident, which could lead to a severe injury.

Avid brakes are a performance product that offer increased stopping power over brakes that you may be used to. This greater power requires less effort to lock-up a wheel when braking. A wheel lockup might cause you to lose control and possibly cause injury.

It's your responsibility to learn and understand proper braking techniques. Consult the owner's manual for your bicycle and a professional bike dealer.

Practice your riding and braking techniques on a flat and level surface prior to aggressive riding.

The effectiveness of braking is dependent on many conditions over which Avid has no control. These include the speed of the bicycle, type and condition of riding surface, braking lever force, proper installation and maintenance of brakes, brake lines, hydraulic fluid, levers, brake pads, condition of the bike, weight of the rider, proper braking techniques, weather, terrain, and a variety of other factors.

Avid brakes and levers are not intended for use on any motorized bicycle or vehicle. Such use could result in a serious personal injury.

ALWAYS RIDE UNDER CONTROL

Remember, it takes longer to stop in wet conditions. To reduce

the possibility of an accident and minimize trail erosion, you should avoid locking-up your wheels. Juicy disc brakes are designed as a system. Do not use components from a manufacturer other than Avid within the system.

Avid disc brake rotors are compatible with 44mm, 6-bolt international standard disc hubs.

We recommend 32 or 36-spoke wheels with a 3 or 4 cross spoke lacing pattern. Contact your specific wheel manufacturer for more specifications.

DO NOT USE RADIALLY SPOKED WHEELS.

USE ONLY DOT 4 OR DOT 5.1 FLUIDS WITH JUICY DISC BRAKES.

Do not use a fluid other than the DOT fluids suggested. Doing so will damage the system and make the brakes unsafe to use.

DOT fluids will damage painted surfaces. If any fluid comes in contact with a painted surface (i.e. your frame), wipe it off immediately and clean with isopropyl alcohol.

Do not allow any brake fluid to come in contact with the brake rotors. If this occurs, clean the rotors with isopropyl alcohol.

Do not allow any brake fluid to come in contact with the brake pads. If this occurs, the pads are contaminated and must be replaced.

WARNING

Do not touch the braking surface of any rotor with your bare hands, because the oils from your fingers will degrade its performance. Always wear gloves, or handle the rotor by its spokes.

Disc brakes become very hot during use. Do not touch the caliper or rotor immediately after use. Make sure the brake has cooled down before making any adjustments.

INTRODUCTION

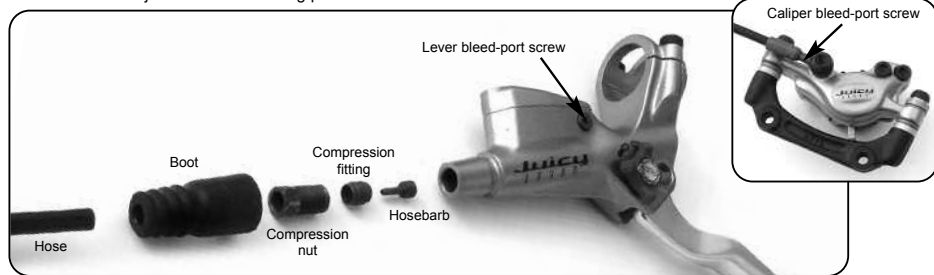
Bleeding is one of the most important steps in topping off the performance of any hydraulic brake system. Any air inside a hydraulic brake system degrades the performance of the brake. The goal of bleeding is to remove the air that's trapped in the hoses, caliper or lever. When you bleed Juicy brakes you remove more air than any other brake's bleeding procedure does. That's one of the reasons why Juicy brakes are the most powerful and precise hydraulic brakes on the market.

Note: Juicy brakes come with hoses attached and bled. If you don't need to change the hose length, then you should not need to bleed the system again.

JUICY BLEED KIT CONTENTS:



Here are the parts that you'll be dealing with in the hose adjustment and bleeding process:



TOOLS NEEDED

- Avid Juicy Bleed Kit
- Rubber gloves
- Safety glasses
- 2.5 and 4mm hex wrenches
- Torque wrench
- Hydraulic line cutters or very sharp housing cutters
- Awl
- Paper towels
- Isopropyl alcohol

IMPORTANT NOTES

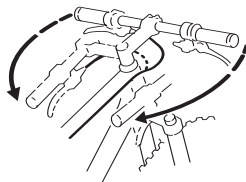
- Avid highly recommends the use of rubber gloves when handling DOT fluids.
- DOT FLUIDS WILL DAMAGE PAINTED SURFACES! DO NOT allow any brake fluid to come in contact with painted surfaces. If DOT fluid gets on the paint or pad printing on the brakes, clean it immediately with isopropyl alcohol. REMOVAL OF PAINT AND/OR PRINTING BY DOT FLUID IS NOT COVERED UNDER WARRANTY!
- Be careful to keep brakes pads and rotors free of DOT fluid.
- For best results, only use Avid Hi Performance DOT Fluid! If Avid fluid is not available, only use DOT 4 or 5.1!

CHANGING HOSE LENGTHS

1

RE-CHECK HOSE ROUTING

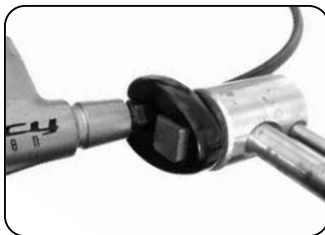
Since you can't lengthen the hose after you have cut it, take a moment and re-check the routing of the hoses. Be sure to account for suspension movement and check that the bars turn freely by turning the bars all the way from side to side. Make sure the hoses are properly secured as well.



2

REMOVE HOSE FROM LEVER

- A.** Pull the boot away from the lever, then use the crow's foot wrench (included) to unscrew the hose compression nut. If the boot sticks, carefully pull a corner of the boot up with something that won't harm it (like a pencil tip) and spray a little alcohol between the boot and the lever. Once you work the alcohol in a little, the boot should loosen up.
- B.** Pull the hose from the lever. Wiggle the hose if necessary. Be careful, to spill as little DOT fluid as possible. Any DOT that drips out will create bubbles that you'll have to eliminate later.
- C.** Slide the nut and boot down the hose and away from the end where you'll be cutting. Be careful not to engage the lever while the hose is removed.



3

DETERMINE PROPER HOSE LENGTH & CUT

- A.** Determine where you need to cut the hose by holding it up to the lever in the position you'd like it. The groove in the lever nose marks the spot where you'll cut the hose. Make sure to leave a gentle curve in the hose—with enough length to freely turn the bars. It's worth double-checking this part, because you can't go back after you cut.
- B.** Cut the hose using hydraulic hose cutters, very sharp cable-housing cutters.



A smart man once said, "Measure twice, cut once."

4 INSTALL NEW FITTINGS

- A.** While holding the hose firmly, thread a new hosebarb into the end of the hose using a 2.5mm hex wrench.
- B.** Slide a new compression fitting over the end of the hose with the new hosebarb.



5 RE-INSTALL THE HOSE

- A.** Push the hose firmly into the lever until it stops.
- B.** While holding the hose in place, slide the compression fitting and compression nut up to the lever, then finger-tighten the nut. You may need to wiggle the hose.
- C.** While continuing to push the hose into the lever body, use the nut wrench to tighten the compression nut. When you feel the compression nut hit the compression fitting, tighten approximately another 1 1/2 turns, at which point you will feel the compression nut bottom out.
- If your compression fitting is alloy, tighten to 5nm; 50-55kgcm; 47 in-lb.
 - If your compression fitting is steel, tighten to 7.8nm; 80kgcm; 70 in-lb.
- D.** Slide the boot back into place



TIME TO BLEED THE BRAKES

Cutting down the hose will introduce a small amount of air into the system, so at this point it is necessary to bleed the brakes for optimal performance. This process is next in the manual.

BLEEDING PROCEDURE

INTRODUCTION TO BLEEDING

When bleeding Juicy brakes, there are two main points to keep in mind:

1. You are simply chasing bubbles out of the system
2. Gravity is your friend. (Liquid is heavier than gas, so bubbles always tend to rise.)

Avid's bleeding procedure allows the isolation of the caliper so it can be bled completely air free. Then, by pushing fluid from the caliper up to the lever, you remove any air in the hydraulic line. From there, it's just a matter of purging those little bubbles out of the reservoir. Bleeding isn't hard once you understand what you are trying to do.

PROCEDURE OVERVIEW

You will perform 3 basic operations when bleeding Juicy brakes:

1. Bleed the caliper
2. Bleed the hose
3. Bleed the lever (master cylinder and reservoir)

Following this procedure will give you a perfectly bled, optimally performing Juicy brake. Enjoy!!

1

PREPARE THE SYRINGES

- A.** Fill one syringe 1/2 full with Avid Hi-Performance DOT Fluid and close the hose clamp. Leave the other syringe empty and open.
- B.** This is where Avid separates the men from the boys when it comes to bleeding brakes. Now you are going to de-gas the fluid in the 1/2 full syringe. Getting all the air out of the fluid now, gives you the ultimate brake bleed.

Leave the hose clamp shut and pull down on the plunger. You will see bubbles seem to appear from nowhere in the fluid. That's all air that was trapped in the fluid. Pull on the plunger several times. When the bubbles stop forming, open the clamp and carefully push the excess air and gas out. Try tapping the syringe as you pull, to release more bubbles. Repeat several times.

Notes:

- Be careful not to pull too hard or you will pull air past the seal of the syringe.
- You will never eliminate all the bubbles in the fluid, so after you have pulled a few times, and the number of bubbles decreases, you are ready to move on to the next step.

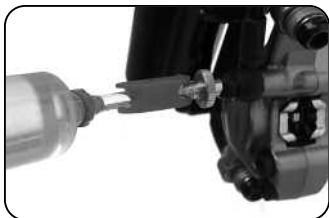


2

PREPARE THE CALIPER AND THE LEVER

ON THE CALIPER

- A.** Use the T-10 Torx wrench to remove the caliper bleed port screw from the center of the banjo bolt.
- B.** Make sure the fluid in the 1/2-full syringe is pushed all the way to the tip (no air gap!), then screw into the caliper bleed port.



ON THE LEVER

- A.** On the Juicy Seven lever, turn the pad contact knob all the way to the “out” position. For a left lever, this would be all the way clockwise and for a right lever all the way counterclockwise (Juicy Seven only).
- B.** Using a 4mm hex wrench, slightly loosen the lever clamp bolt/s then rotate the lever so the body of the lever pointed straight down – perpendicular with the floor. You will probably need to loosen your shifter to allow the brake lever down to this position.
- C.** Remove the lever bleed port screw and install the empty syringe, leaving the clamp on the syringe open.
- D.** Squeeze the lever closed (against the bar) and fasten it with a rubber band. This closes off the master cylinder and isolates the caliper, allowing the removal of any air from the caliper only before moving on to the rest of the system.



IMPORTANT: Make sure that the reach adjuster is not adjusted so far out that the lever blade is bottomed out on the lever body. Doing so can make bleeding the brake impossible.

3 BLEED THE CALIPER

- A.** Open the caliper syringe clamp
- B.** Gently push the syringe plunger out with your thumb. If there is air in the caliper this will draw it back into the syringe. Release the plunger to replace the bubbles you just removed with fluid. Tapping on the caliper with a non-marring instrument while performing this process will help bubbles move out into the syringe. Repeat the process until no more bubbles are drawn from the caliper. Once this is accomplished, close the caliper syringe clamp.

Note: Be careful not to pull the plunger out too hard, or you will actually suck air past the seals.



4 BLEED THE HOSE

- A.** Remove the rubber band to release the lever blade.
- B.** While holding the caliper syringe up to prevent bubbles from floating back into the system, open the caliper syringe clamp and force fluid from the caliper syringe up to the lever syringe. Do this until the lever syringe is approximately 1/4 full.
- C.** Close the lever syringe clamp, then the caliper syringe clamp. At this point, you are done at the caliper end. Remove the caliper syringe and re-install the bleed port screw. Have a paper towel ready to catch any small amount of fluid that may come out of the port when removing the syringe and reinstalling the screw. Once the screw is installed, wash the caliper with water to deactivate any DOT fluid.



5**BLEED THE LEVER** (Master Cylinder and Reservoir)

- A.** Draw a gentle vacuum on the lever syringe by pulling on the syringe plunger. This pulls air bubbles out of the reservoir. Release the plunger to replace the bubbles you just removed with fluid.
- B.** Tapping on the lever with a non-marring instrument while performing this process will help bubbles move out into the syringe. You should also squeeze the lever (like you are braking) a few times while bleeding. Repeat the process until no more bubbles are drawn from the lever. Once the lever is bubble free, close the syringe clamp.
- C.** With the syringe still attached, rotate the lever up 90°, so that the lever body is parallel with the floor, and the bleed port (and syringe) are pointed straight up. Now, unscrew the syringe from the bleed port.
- D.** Place a couple drops of DOT fluid on top of the open port and replace the bleed port screw. Have a paper towel ready to wick up any fluid that may well up in the port. Once the screw is installed, wash the lever with water to deactivate any DOT fluid.
- E.** Rotate the lever back to riding position and re-torque our specifications.
- Juicy Seven/Carbon: Torque to 2.8-3.4 Nm (25-30 In Lbs.)
 - Juicy Five: Torque to 4-5 Nm (30-40 in-lb)
- Rotate shifters back to riding position and re-torque to manufacturer's specifications.



6**TEST THE SYSTEM**

You are almost ready to ride, but first it's a good idea to test your brakes by pulling on the lever extremely hard (as hard as you can imagine yourself pulling the lever while you're riding) several times. Make sure and look around the hose nut on the lever, and the banjo bolt on the caliper for any leaks. Make one last check of all the bolts and fittings.

If everything checks out, **YOU ARE READY TO RIDE!**

Empty the syringes into a sealed container and dispose of the fluid properly.

DO NOT RE-USE THIS FLUID!

DO NOT LEAVE THE HOSE CLAMPS CLOSED (this will damage the clear tubing on the syringes)!

SRAM CORPORATION WARRANTY

EXTENT OF LIMITED WARRANTY

SRAM warrants its products to be free from defects in materials or workmanship for a period of two years after original purchase. This warranty only applies to the original owner and is not transferable. Claims under this warranty must be made through the retailer where the bicycle or the SRAM component was purchased. Original proof of purchase is required.

LOCAL LAW

This warranty statement gives the customer specific legal rights. The customer may also have other rights which vary from state to state (USA), from province to province (Canada), and from country to country elsewhere in the world.

To the extent that this warranty statement is inconsistent with the local law, this warranty shall be deemed modified to be consistent with such law, under such local law, certain disclaimers and limitations of this warranty statement may apply to the customer. For example, some states in the United States of America, as well as some governments outside of the United States (including provinces in Canada) may:

- a. Preclude the disclaimers and limitations of this warranty statement from limiting the statutory rights of the consumer (e.g. United Kingdom).
- b. Otherwise restrict the ability of a manufacturer to enforce such disclaimers or limitations.

LIMITATIONS OF LIABILITY

To the extent allowed by local law, except for the obligations specifically set forth in this warranty statement, in no event shall SRAM or its third-party suppliers be liable for direct, indirect, special, incidental, or consequential damages.

LIMITATIONS OF WARRANTY

- This warranty does not apply to products that have been incorrectly installed and/or adjusted according to the respective SRAM technical installation manual. The SRAM installation manuals can be found online at www.SRAM.com, www.rockshox.com or www.avidbike.com.
- This warranty does not apply to damage to the product caused by a crash, impact, abuse of the product, non-compliance with manufacturer's specifications of usage or any other circumstances in which the product has been subjected to forces or loads beyond its design.
- This warranty does not apply when the product has been modified.

- This warranty does not apply when the serial number or production code has been deliberately altered, defaced or removed.
- This warranty does not apply to normal wear and tear. Wear and tear parts are subject to damage as a result of normal use, failure to service according to SRAM recommendations and/or riding or installation in conditions or applications other than recommended.

WEAR AND TEAR PARTS ARE IDENTIFIED AS:

- | | |
|---|--|
| - Dust seals | - Brake pads |
| - Bushings | - Chains |
| - Air sealing o-rings | - Sprockets |
| - Glide rings | - Cassettes |
| - Rubber moving parts | - Shifter and brake cables (inner and outer) |
| - Foam rings | - Handlebar grips |
| - Rear shock mounting hardware and main seals | - Shifter grips |
| - Stripped threads/bolts (aluminum, titanium, magnesium or steel) | - Jockey wheels |
| - Upper tubes (stanchions) | - Disc brake rotors |
| - Brake sleeves | - Tools |

- This warranty shall not cover damages caused by the use of parts of different manufacturers.
- This warranty shall not cover damages caused by the use of parts that are not compatible, suitable and/or authorized by SRAM for use with SRAM components.



POWERED BY SRAM

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