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**AL-KO Sensabrake**

# Bleeding the Hydraulic System Instructions

## Bleeding

### *Bleeding instructions using Sensabrake™ Pressure Bleed Gun*

1. Fill reservoir with clean brake fluid to just below the top of the sight glass.
2. Place the pressure bleed gun socket gently over the neck of the reservoir applying gentle pressure to locate the bleed socket in place (as shown in diagram 1)
3. Screw the lid in place to secure the socket.
4. Do not push on with excessive force or damage may be caused to the reservoir or the O ring on the pressure bleed gun socket.
5. Place the other end of the bleed gun tube into a bottle or container of fresh, new brake fluid (see diagram 2) .
6. Open the bleed screw (start with the furthestmost calliper) at least one full turn. Place a clear flexible hose over the bleed screw and immerse the other end into a container partially filled with brake fluid.
7. Squeeze the pressure bleed gun repeatedly (see diagram 3 - but not too fast or cavitations may occur) ensuring that the bulk brake fluid tank and the reservoir do not run out of brake fluid or air will enter the hydraulic system. At no stage let the fluid level in the reservoir fall below the minimum fluid level indicator.

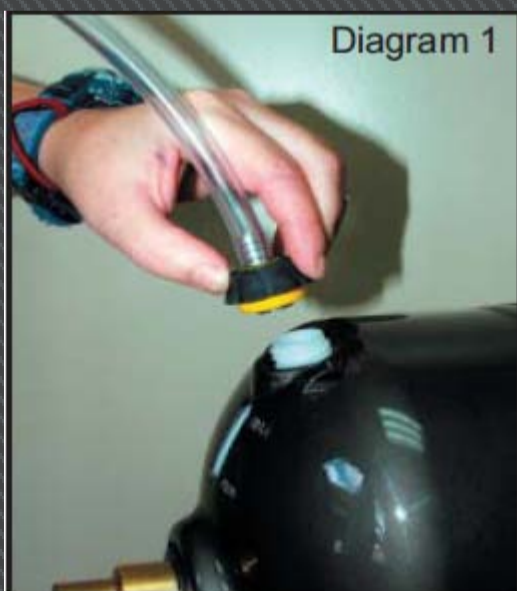


Diagram 1



Diagram 2



Diagram 3

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8. Continue squeezing the pressure bleed gun until the brake fluid in the flexible hose attached to the bleed screw is free of air bubbles and tighten the bleed screw.
9. Repeat the process with the next furthestmost calliper away from the actuator.
10. Bleed the other side of the trailer starting with the closest calliper to the actuator first as above
11. Connect the trailer to the tow vehicle and turn on ignition to activate actuator. Allow the compressor to fully charge the actuator (approx 90 seconds). Once the compressor has stopped apply the brakes, and hold on for a 5 second period and release. Repeat this 4 times.
12. Check the brake fluid level in the reservoir. It should not exceed the top of the sight glass maximum level.
13. Replace the fluid reservoir cap.

**IMPORTANT**

**Before removing the pressure bleed gun from the reservoir, make sure that there is no pressure in the system (pressure bleed gun has fully returned to the rest position) or brake fluid spillage will occur causing paint damage**

**WARNING:**

Correct bleeding of the actuator is critical as trapped air greatly reduces the efficiency of the brakes. When the bleeding process is complete, check all bleeder screws to ensure that they are secure and do not leak. Failure to properly install, operate and maintain your Sensabrake™ braking system can cause malfunction resulting in possible serious or fatal injuries and/or property damage.

Monitor the brake fluid level in the reservoir so that the actuator is not run without

**For warranty or service assistance contact AL-KO International on –**

**New Zealand           (09) 255 5611**

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**For technical assistance please call AL-KO International or your AL-KO Sensabrake supplier**



## To prime the bleeder

Turn the dose adjuster to 12.5ml position. Hold the applicator vertically upwards and prime by squeezing the handle completely forward until all air has been expelled from the tubing and bleed gun.



## To lubricate the bleeder

The bleeder has a unique lubricating felt washer enabling the barrel to be lubricated after each use. To relubricate the felt washer, remove the barrel and dip the piston (o-ring and felt washer) into brake fluid.

N.B. Do not use mineral based oils such as CRC



**WARNING** - Failure to bleed the Sensabrake™ actuator according to manufacturers instruction may cause equipment damage and void the product warranty.

Under no circumstances should the Sensabrake™ actuator be used to bleed the brake system.



**WARNING** - The bleeding device is not designed to withstand extreme pressurization so should never be pumped continuously without at least one brake bleed screw being in an open position. Failure to observe this warning may cause the bleedgun to fail, and possible property damage may occur through brake fluid contamination!



**WARNING** - The end of the bleeding device hose not connected to the Sensabrake™ should always be submerged in a bottle of clean brake fluid. Failure to follow this procedure may result in air being pumped into the brake system and the full bleed procedure needing to be repeated.