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## Brake/Clutch Fluid Change and Bleeding Instructions

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How to bleed your brakes/clutch

Posted by Loren on Nov 16, 2005 - 07:02 AM

### Tutorial info

VISIT SUPPORT TOPIC

Added on: Nov 16, 2005 - 07:02 AM

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**Note:** Part numbers sometimes change without notice. Always double check with your supplier that you have the latest part numbers.

*(Edit - July 25, 2006 - Updated the clutch bleeding procedure to the latest procedure as outlined in supplement 98 of the Carrera Service Manual - Loren)*

#### Parts you will need:

1 liter (minimum) 000 043 203 66 Porsche DOT 4 Brake Fluid or equal (ATE Gold or ATE Super Blue)

#### Tools you will need:

Jack

19 mm socket for wheel bolts

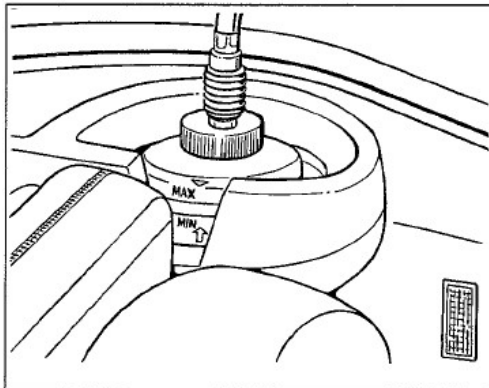
Motive Power Bleeder (or equal) image

Needle Nose Pliers

11 mm wrench for brakes; 9 mm for clutch slave (sizes vary from car to car but they are usually 9 mm or 11 mm)

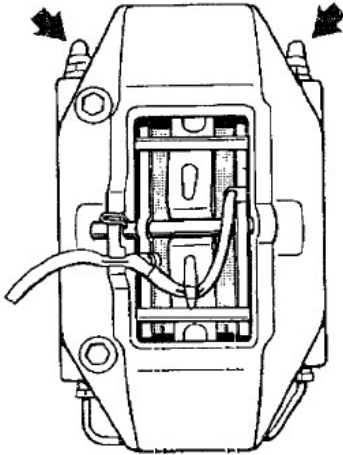
Plastic tubing and waste container (at least 1 liter)

1. Jack up the vehicle at the lift points provided and remove the rear wheel (you will need to do this for each wheel).
2. Remove the cap on the master cylinder reservoir.
3. Remove the plastic screen using a pair of needle nose pliers. This can be a little bit challenging but it will pop off (**be careful with the brake fluid.. it eats paint!**)
4. Use a syringe (or turkey baster... just don't reuse it) and suck out as much of the old fluid as possible.



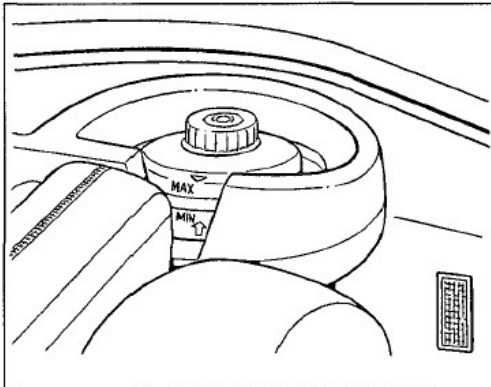
5. Fill the master cylinder reservoir with new fluid. Put the rest in the power bleeder. Screw the cap that came with the power bleeder onto the master cylinder reservoir.

- Put the pressure cap with the pump handle on the power bleeder and pump it up to just under 20 psi - **do not go over 20 psi!**



- Bleed order - Right rear, Left rear, Right front, Left front.
- Place your drain tube over the outside bleed nipple and in the bottle (remember it will need to hold a liter when you are done).
- Bleed the outer bleeder valve first. Open each bleeder valve until clear, bubble free brake fluid emerges. Take care to bleed at each brake caliper and at both bleeder valves.
- Carefully tighten the bleed screw. Wipe off the area and replace the rubber protective cap over the bleed screw.
- Repeat steps 8-10 for the interior bleed screw. Then reinstall the wheel and move on to the next wheel.

**Note:** It makes sense to check the pressure and amount of fluid in the tank between wheels. Running out of fluid means starting over and getting air out.

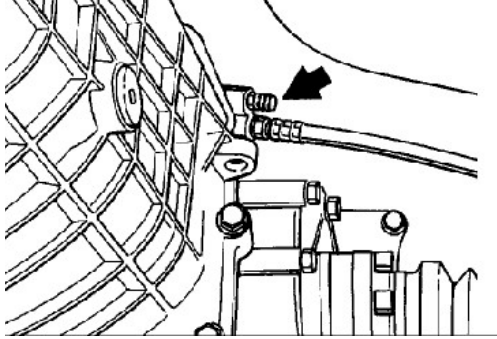


#### Optional Clutch Bleeding

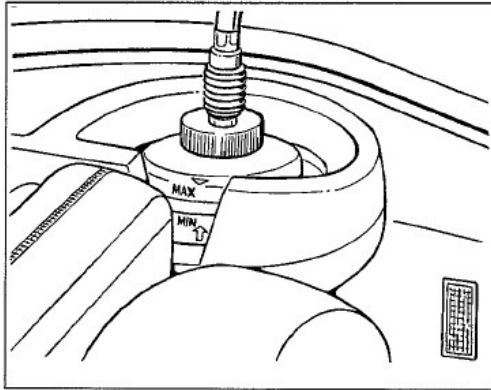
This is best done when you are bleeding the left (driver's side) rear wheel as the clutch bleed valve is mounted high above the axle on the transmission.

- Push the clutch pedal in by hand (very slowly) and use a long piece of wood to hold the pedal down. I wedged the other end (of the wood) between the seat and door frame -- with plenty of soft padding to avoid scratches. A second option is to have a 2nd person sit in the car and keep the clutch pedal FULLY depressed.
- Open the clutch bleeder valve until clear, bubble free brake fluid emerges (at least 30 seconds according to Porsche). Remove the wood. Then, pump the pedal again very slowly by hand for a further 60 seconds. After pressing the pedal down fully about 10 to 15 times, leave the pedal in its normal position. After allowing a fill time of 90 seconds, check that no more air bubbles appear at the bleeder valve (use a collecting bottle with a transparent hose). Then close the bleeder valve. Wipe off the area and replace the rubber protective cap over the bleed screw.
- You may notice that the clutch pedal does not return... so carefully pull it up (slowly) to its normal position. Then depress it (slowly) a few (at least 5) times. In a few cycles the

feel should return.



12. Torque the wheels bolts to 96 ftlb. (130 Nm).
13. Do a final check on the brake fluid level and top up if needed.



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