

MASTER CYLINDER—BENCH BLEEDING

The absolute best and recommended method to achieve a successful bleed with a new Master Cylinder is to place the master cylinder in a vice on a bench where it will

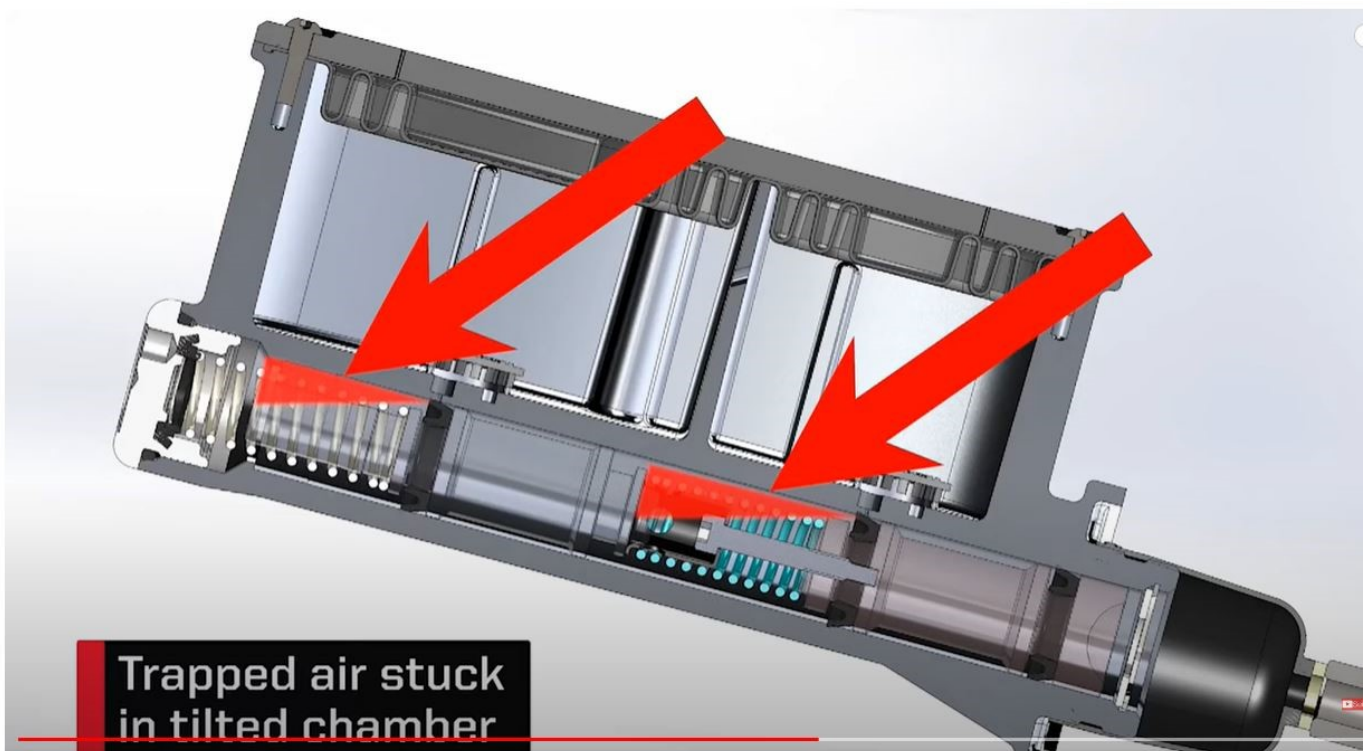
- held in a horizontal position and
- provides easy access to the piston.

IT IS MANDATORY THAT THE MASTER CYLINDER BODY (PISTONS) BE ALIGNED HORIZONTALLY.

Attempting to bleed a Master Cylinder at an angle is futile.

Air will get trapped inside the piston chambers and no matter how hard or fast you push, some air will not purge.

WARNING: The illustration provided below shows where the air gets trapped and if left this way will cause a very **soft pedal and system failure.**



Note:

Some vehicles mount the master cylinder at an angle inside the engine bay and **again**, attempting to bleed at an angle is futile. Remove the Master Cylinder from the vehicle, set up horizontally in a vice and bench bleed.

The following You Tube tutorials provide excellent tutorials on bench bleeding.

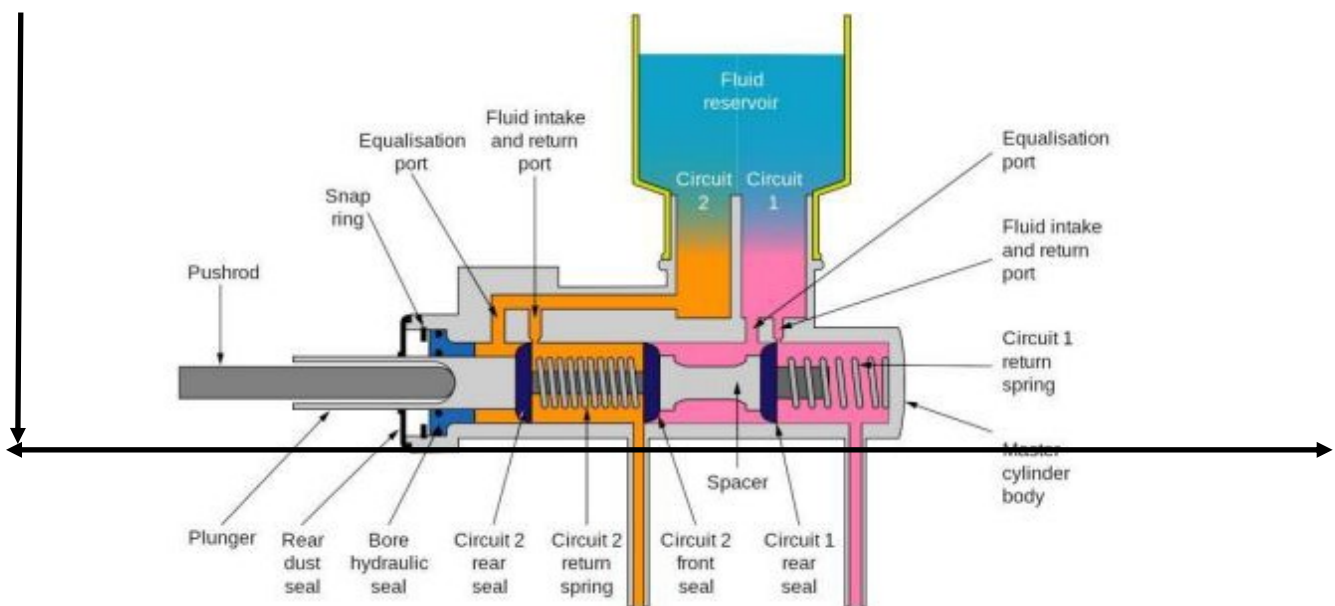
WILLWOOD:

<https://www.youtube.com/watch?v=qnsgCZVww54>

GARAGE GURUS

<https://www.youtube.com/watch?v=7rlmn6nJ4Dw>

HORIZONTAL ALIGNMENT.—ALIGN AS DIAGRAM



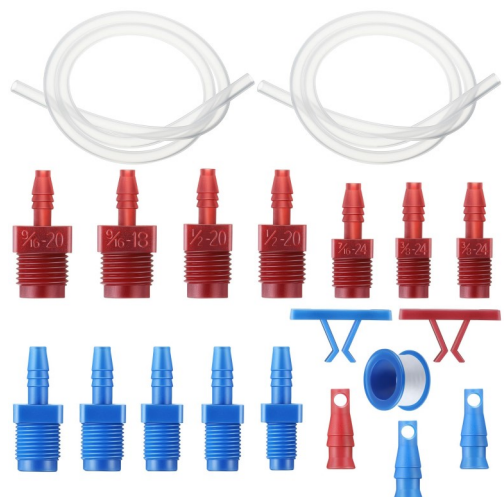
BRAKE BLEEDING—HARDWARE KIT.

Available on Amazon, eBay, Parts Shops

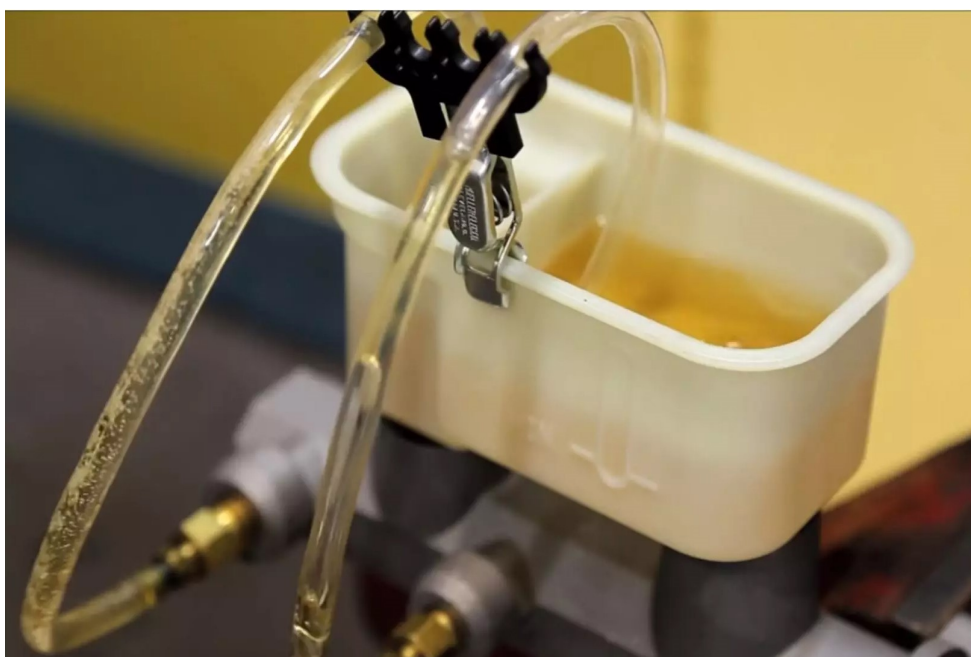
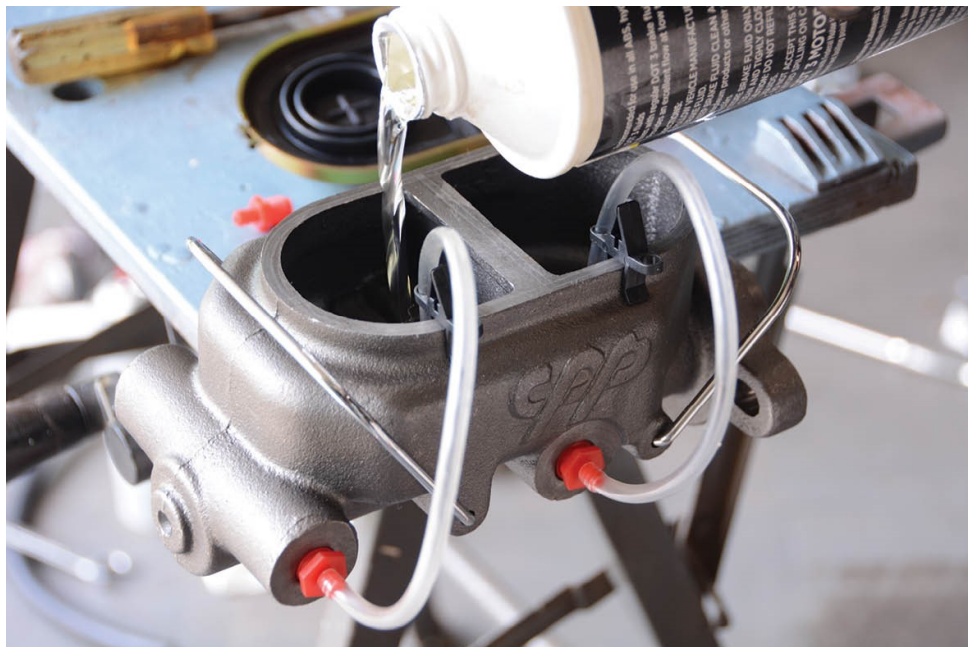
Note tubing is clear plastic.

This enables visuals on fluid flow and air bubbles as you bleed..

Avoid kits with black/opaque tubing,



ILLUSTRATIVE EXAMPLES:



BLEEDING NOTES:

1. Bleeding underway—note brake fluid & air bubbles in plastic lines.
2. Strictly follow steps in YouTube videos.



3. Be patient and work slowly using long slow & quick short strokes as per the videos.
Bleeding may take approx. 5 minutes and up to 50+ strokes.
4. Continue bleeding until there is only solid brake fluid visible in the clear plastic tubing—no air bubbles whatsoever.
4. Remove clear lines & cap of fittings.
5. If cap fittings are not available, leave clear lines in place until proceeding to car fitment