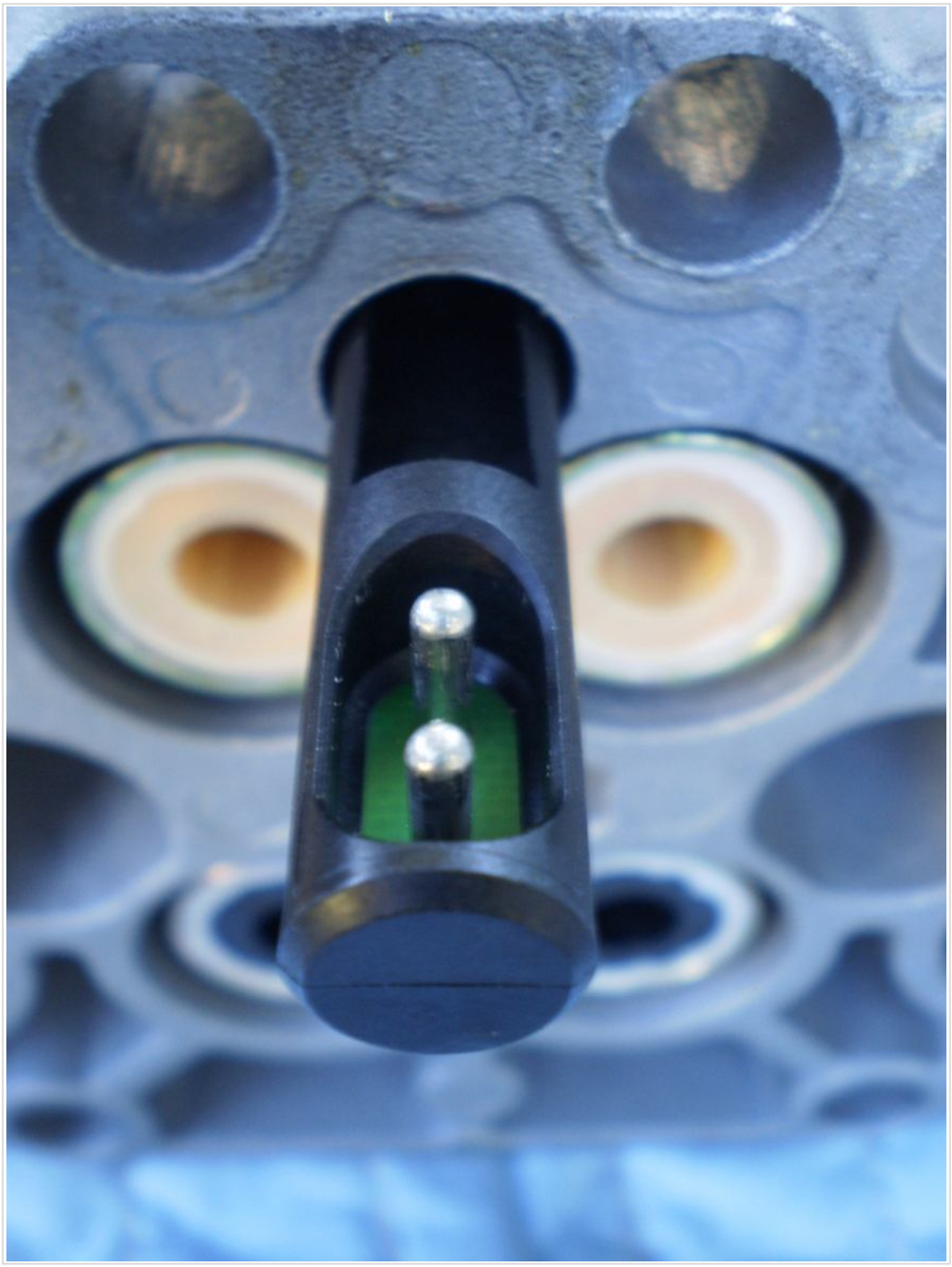


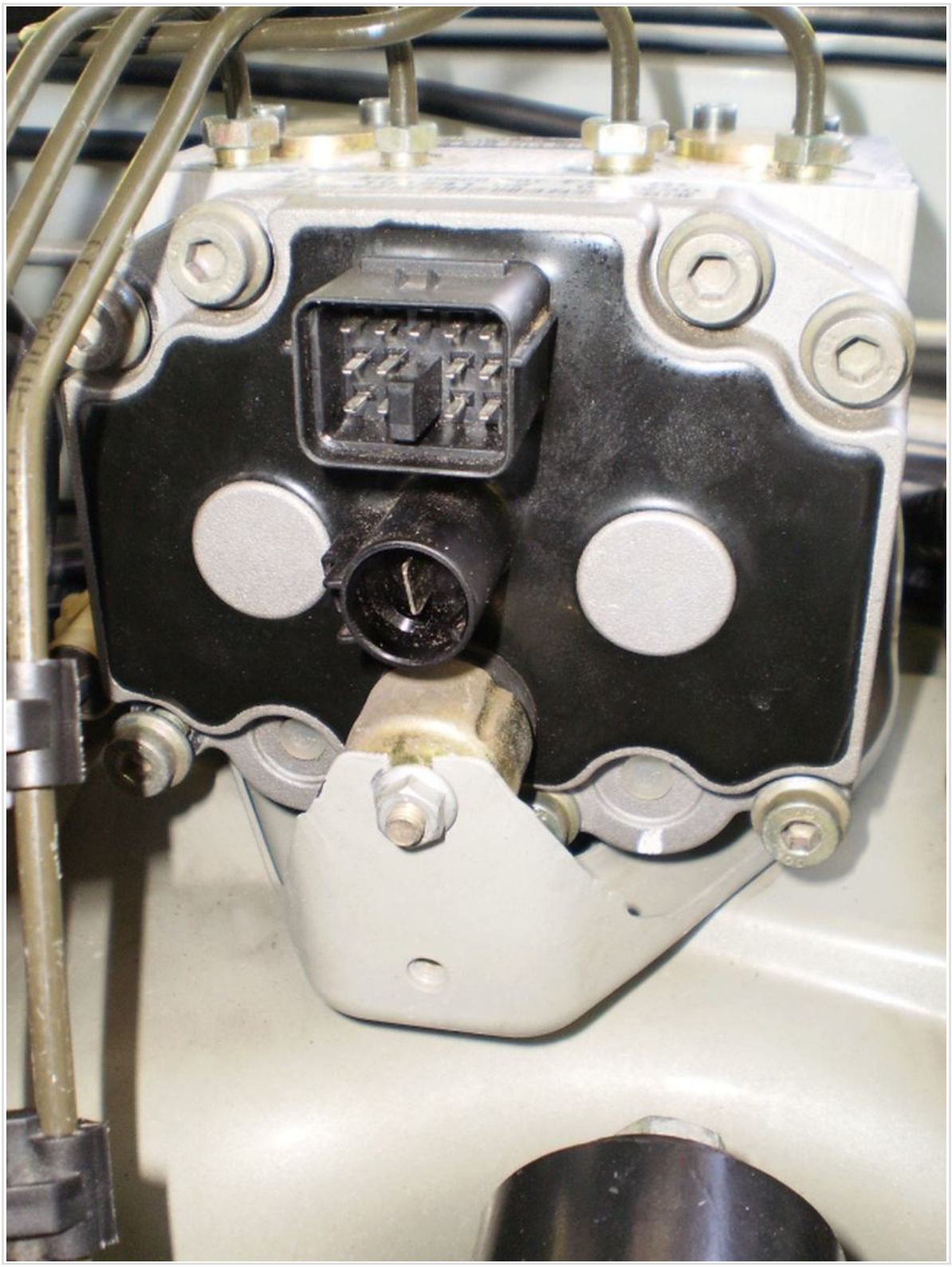
SVS modulator plug circuit board.

If doing option A, the base of these pins need to be re-soldered. Underside of circuit board is what needs to be shaved off.
Installation is reverse of removal.

Instructions For Removing Modulator Side Only

Steps 19 - 30

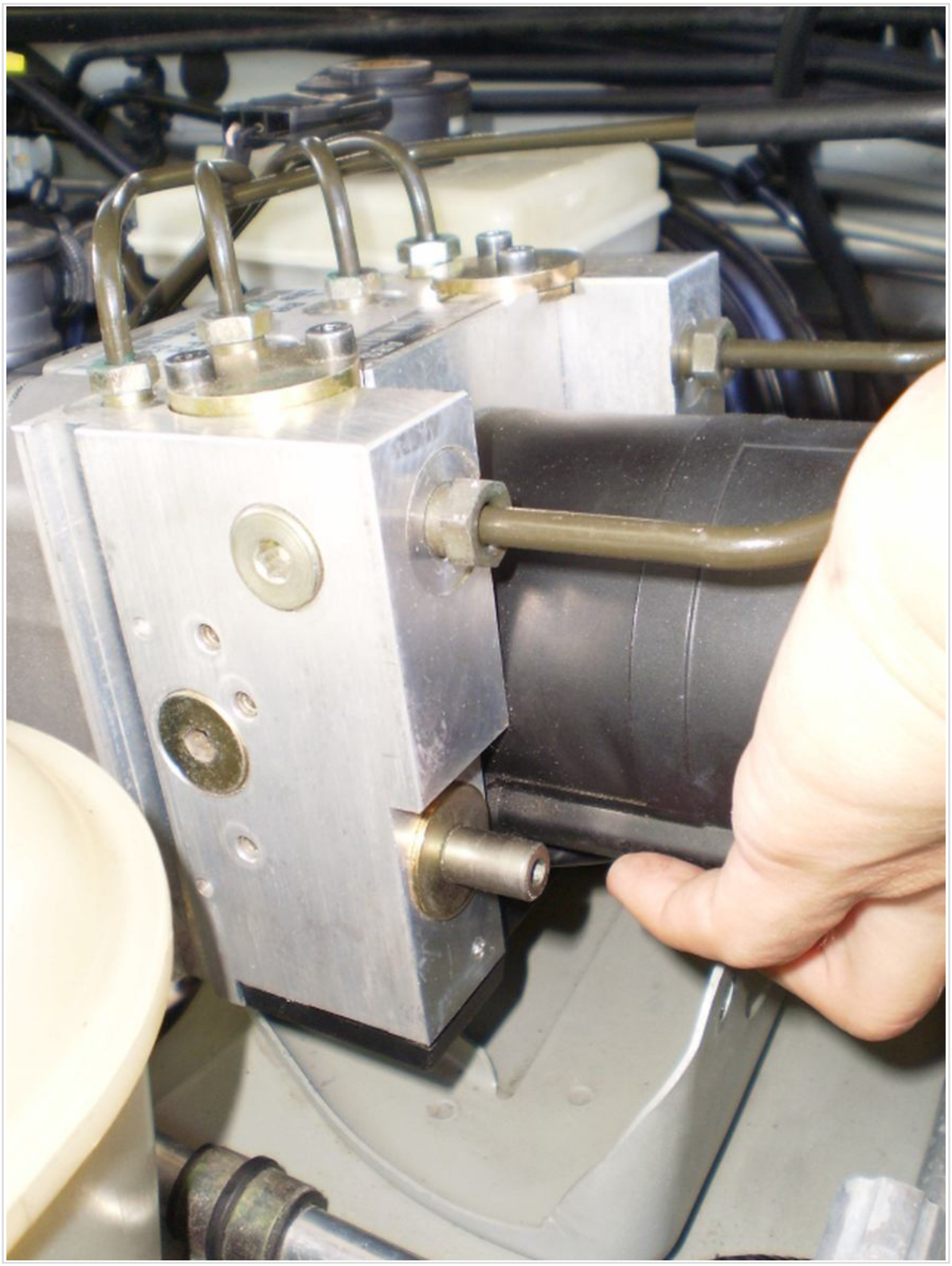
19. Remove two electrical connectors on modulator side.
20. Release the brake pipes from the clips on the bulkhead. Remove intake arm.
21. Brake loose 6 of the 8 modulator bolts (That is the TOP 4, and the BOTTOM 2 on the OUTSIDES). The two closest to the rubber mount will need to be removed later.



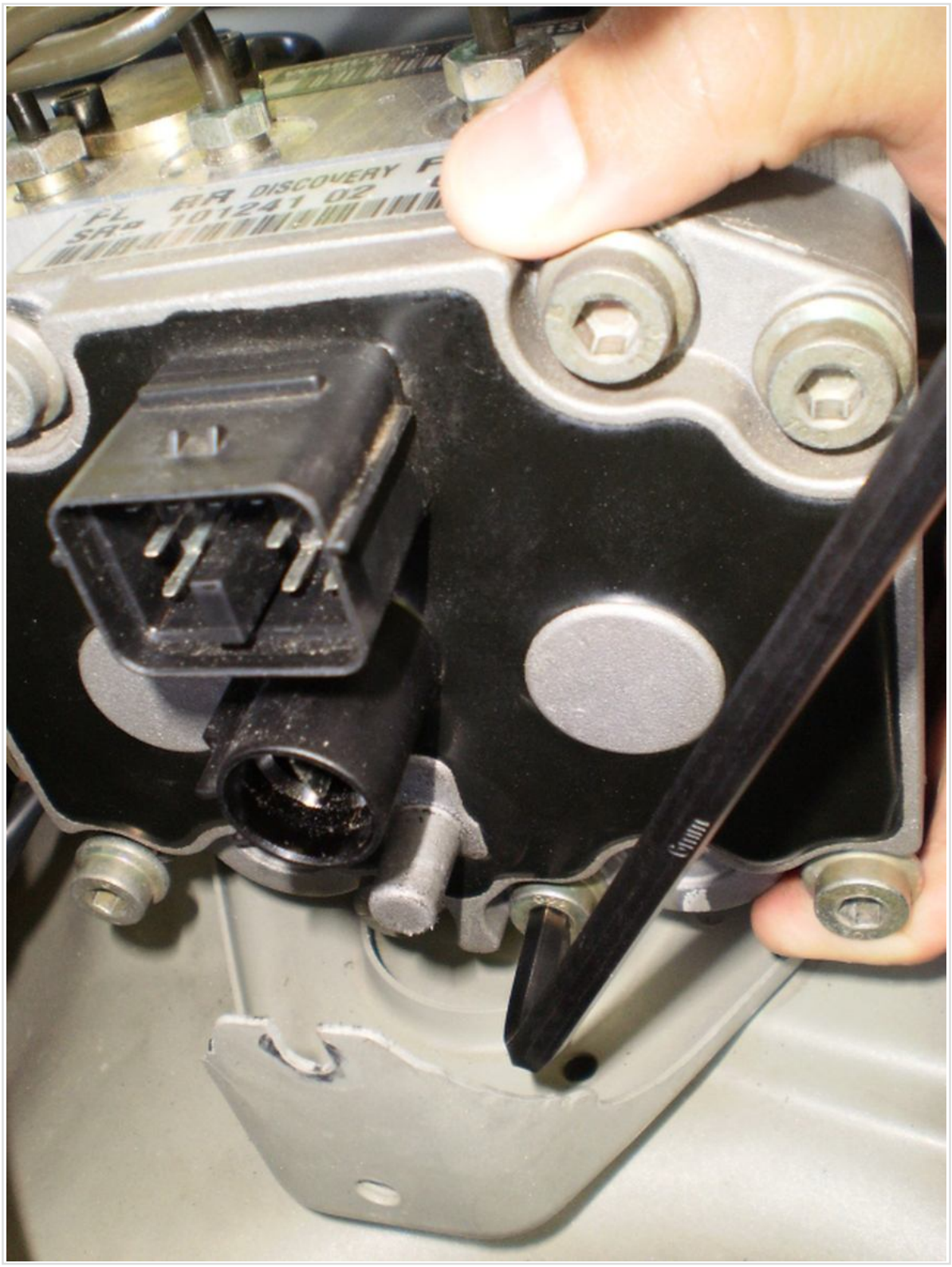
22. Remove two clips from the brake lines.

23. Remove the three rubber mounts. One front and two rear.

You will now have enough room to position the unit to remove the last two bolts.



24. Remove the two bolts nearest front mount.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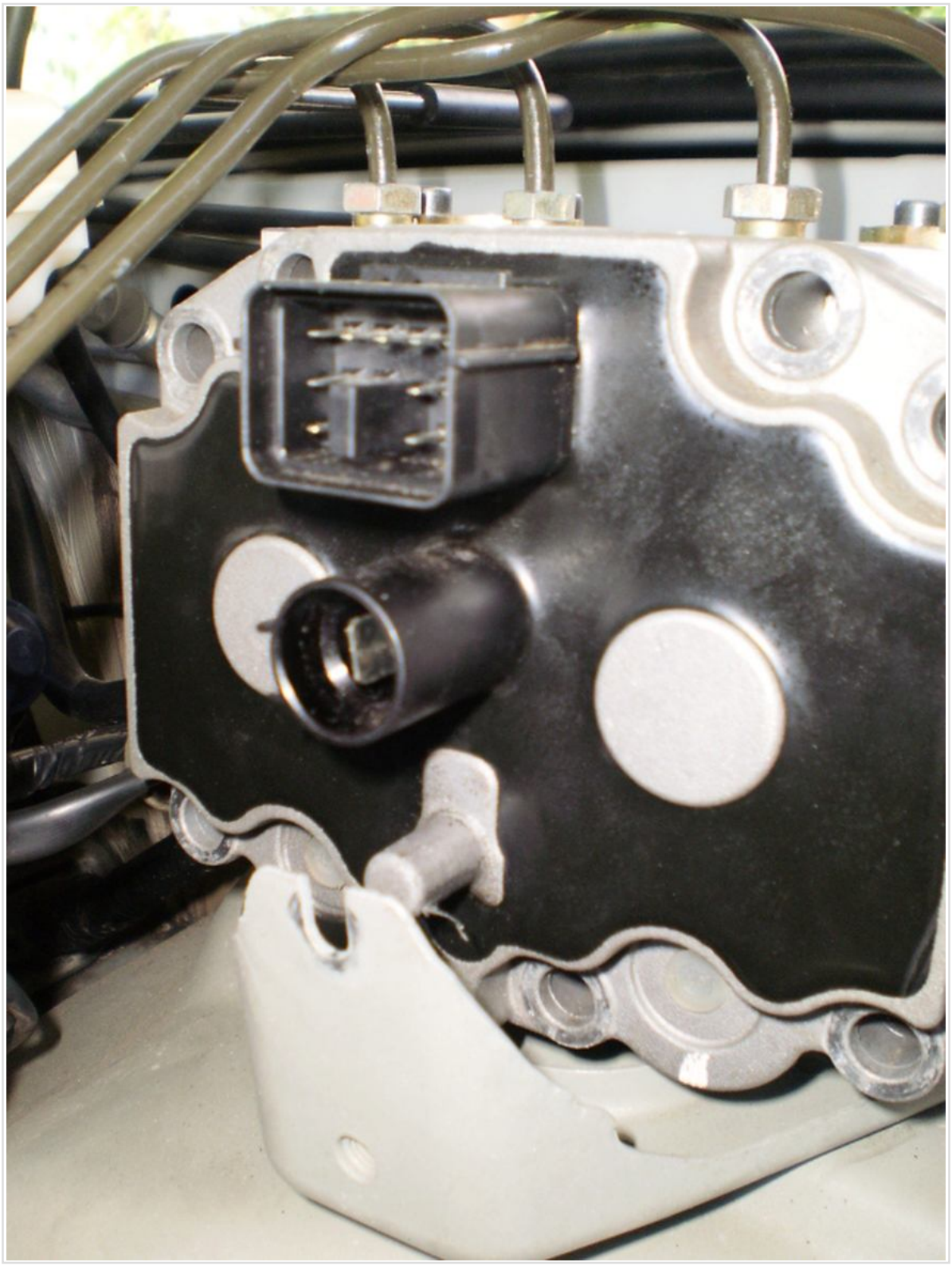
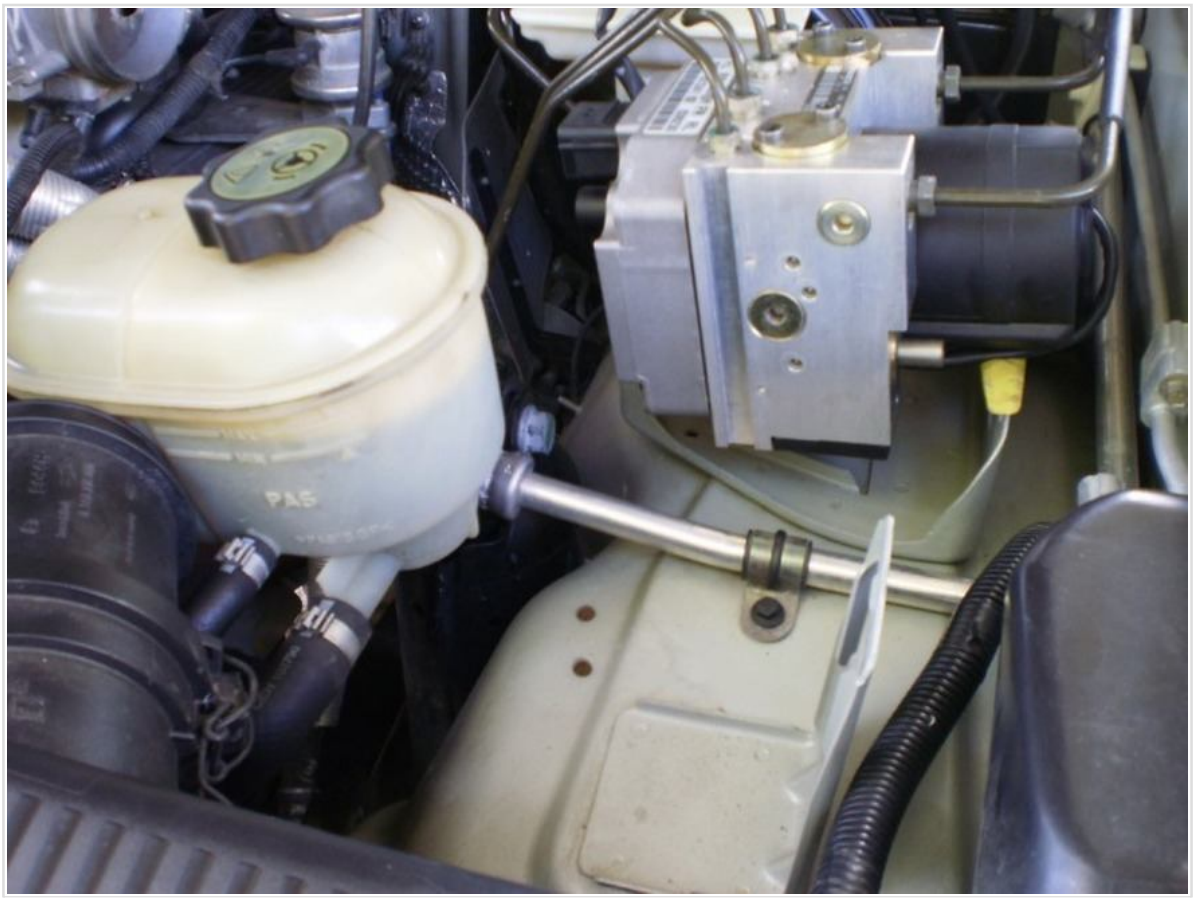
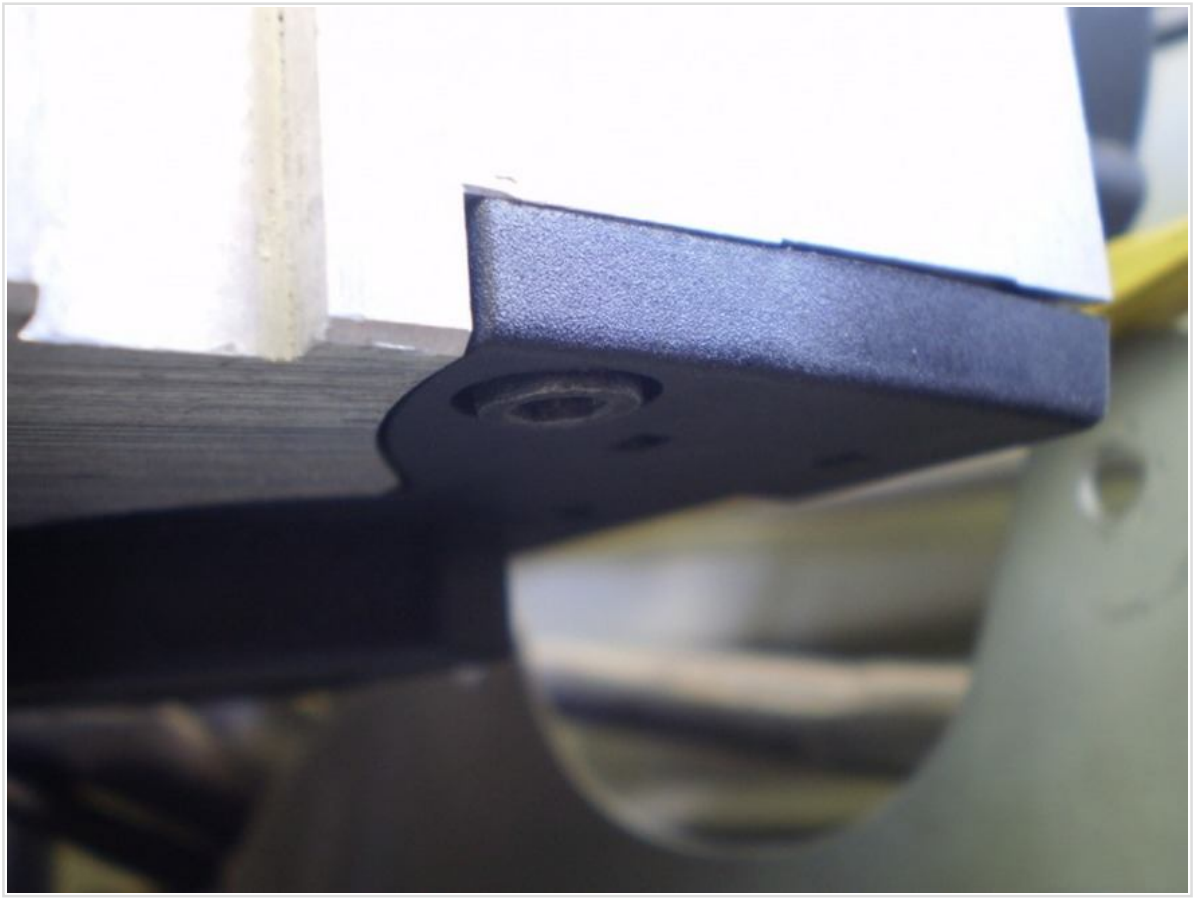


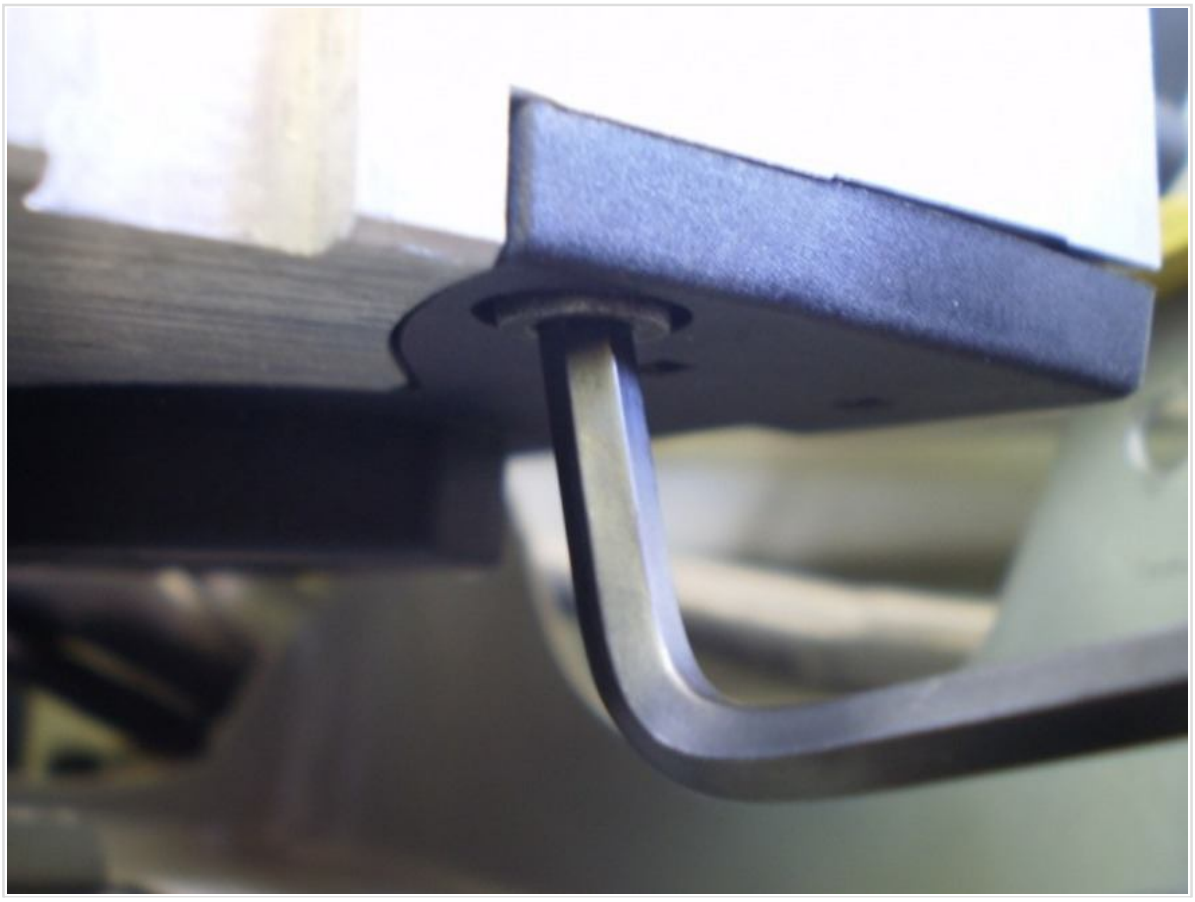
25. In order to have room underneath the ABS unit to access the SVS cover plate screws, raise the pump side of the unit and support it using the top of the rear side of the mounting bracket. I used a plastic trim removal tool to rest it on.

26. Reposition the PAS Fluid reservoir.

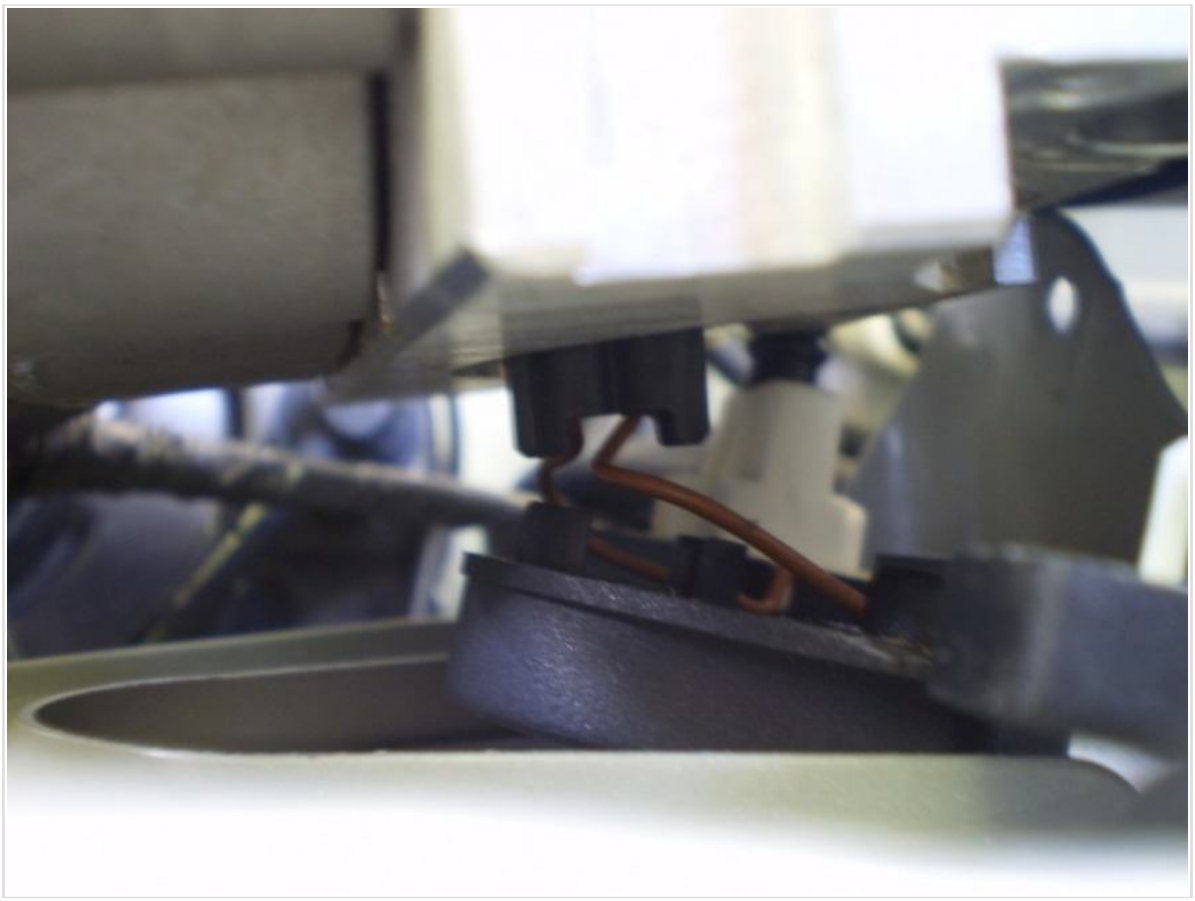


27. Using a 4mm hex key, remove the three SVS cover plate screws. The shorter the hex key the better, as it will allow you to spin around without having to take the key out the screw head.

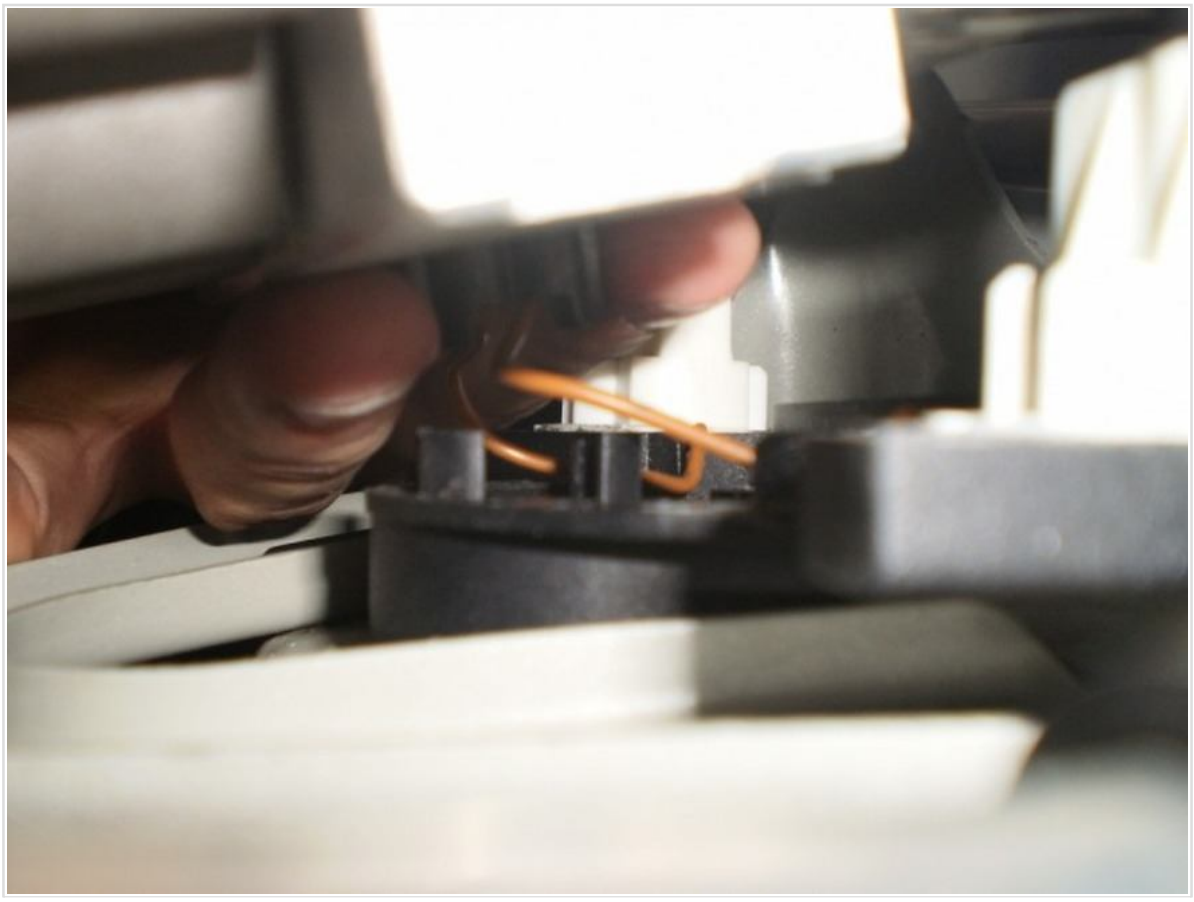




28. Once all three screws are out, carefully pry down the SVS cover plate.



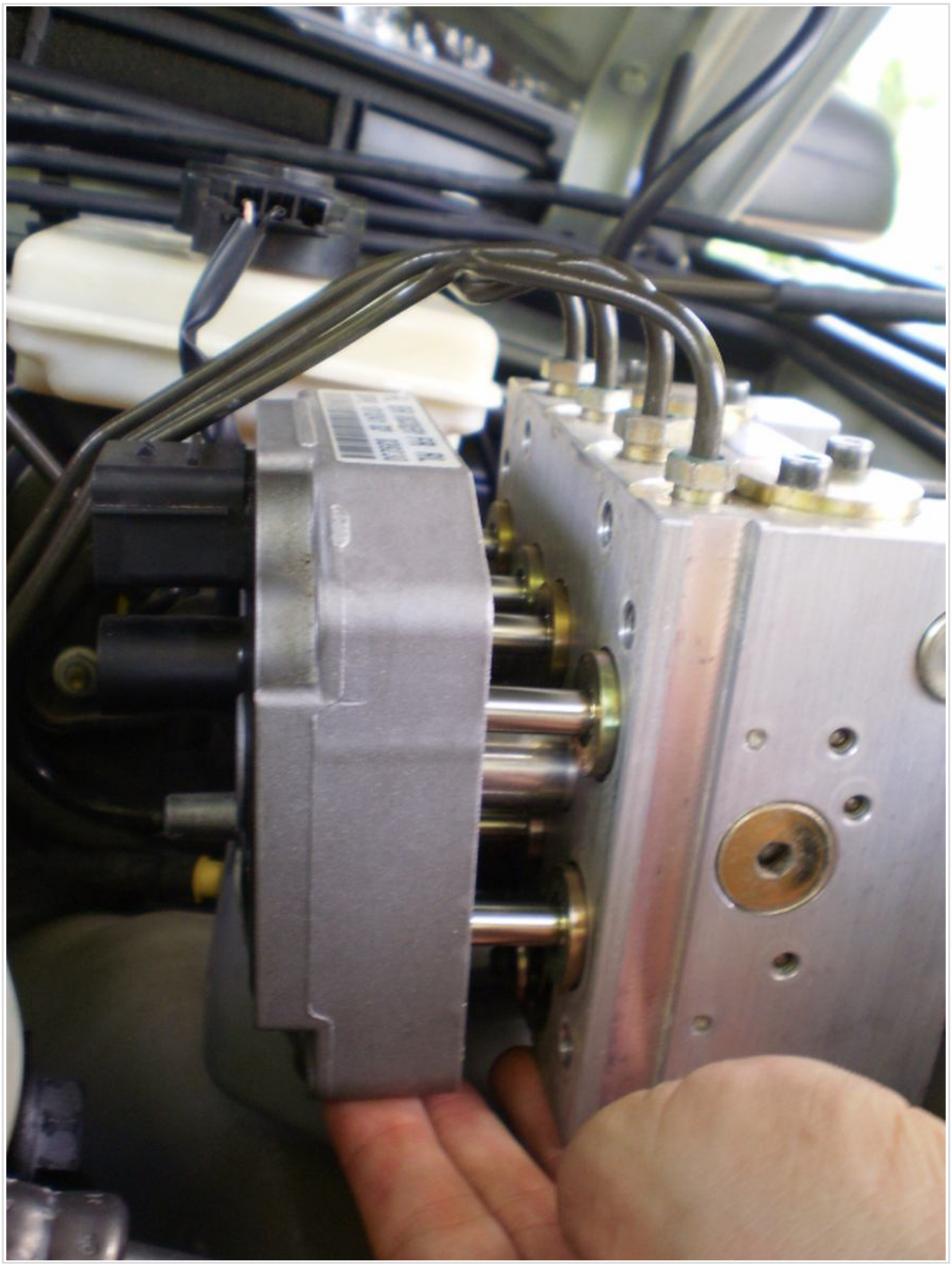
29. You should have enough room to get your fingers underneath and pull the SVS plug down. I needed my assistant to raise the ABS modulator/pump an inch or two so I could use my thumb to unplug it.

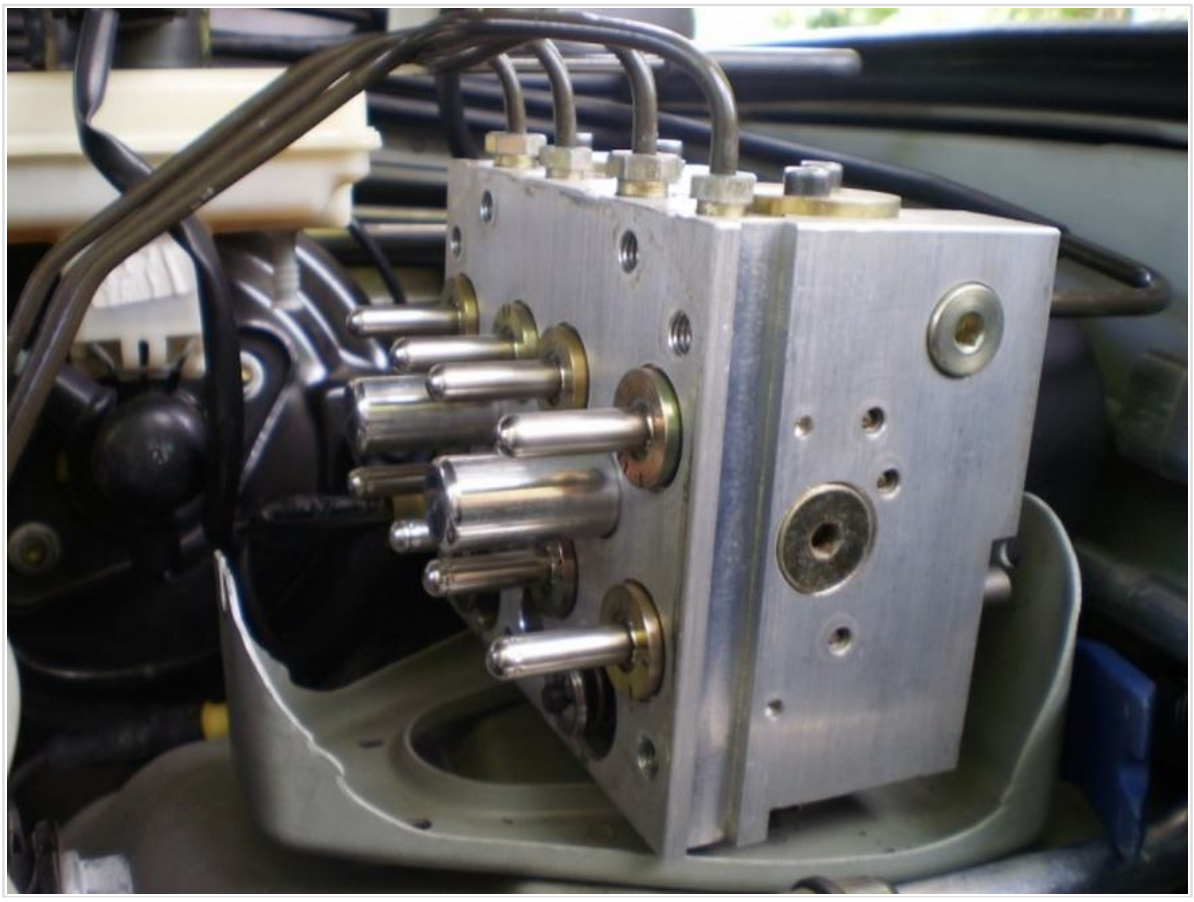


You can see the SVS plug between my fingers

Once unplugged, carefully remove the SVS assembly out from under the unit.

30. The modulator side can now be removed. Slide it out until the SVS plug circuit board it completely out of the pump side being cautious not to bend it or remove it at an angle.

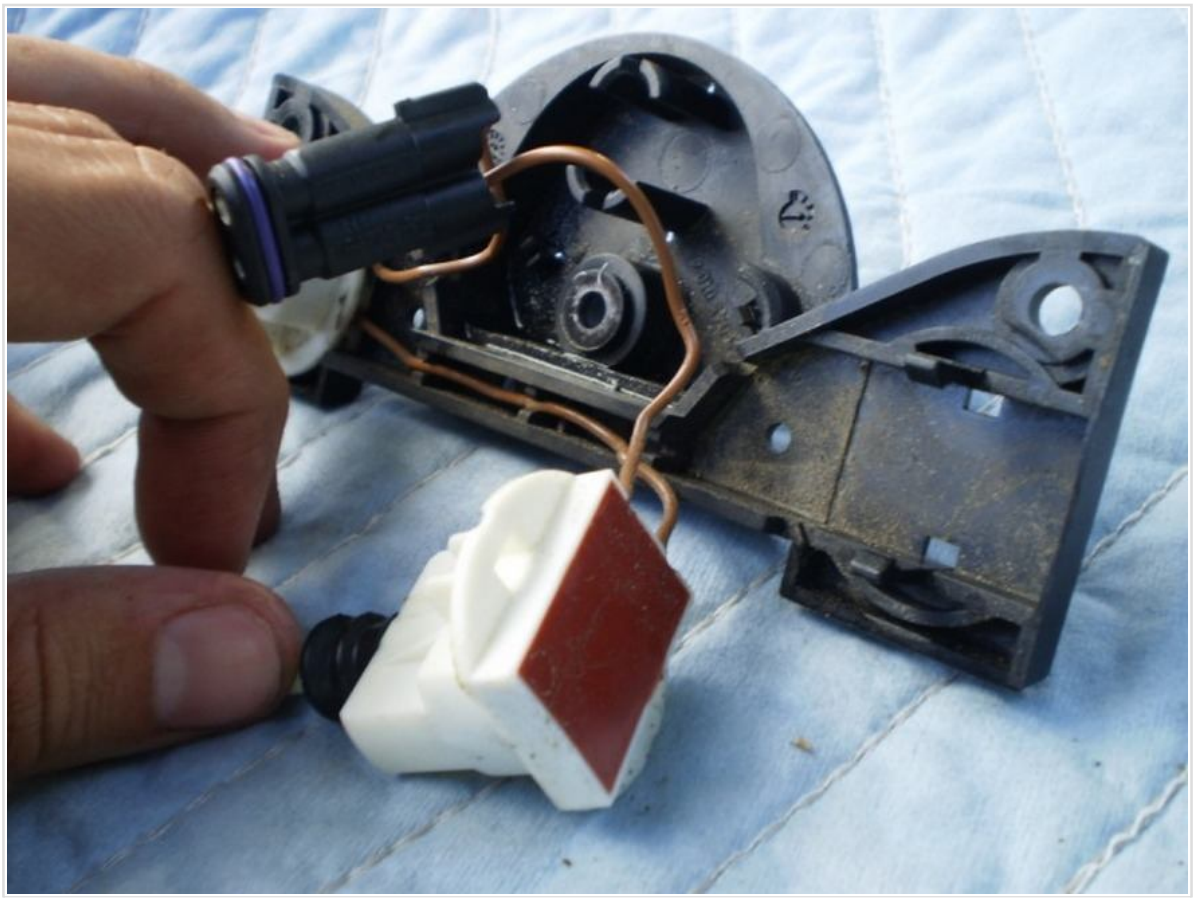


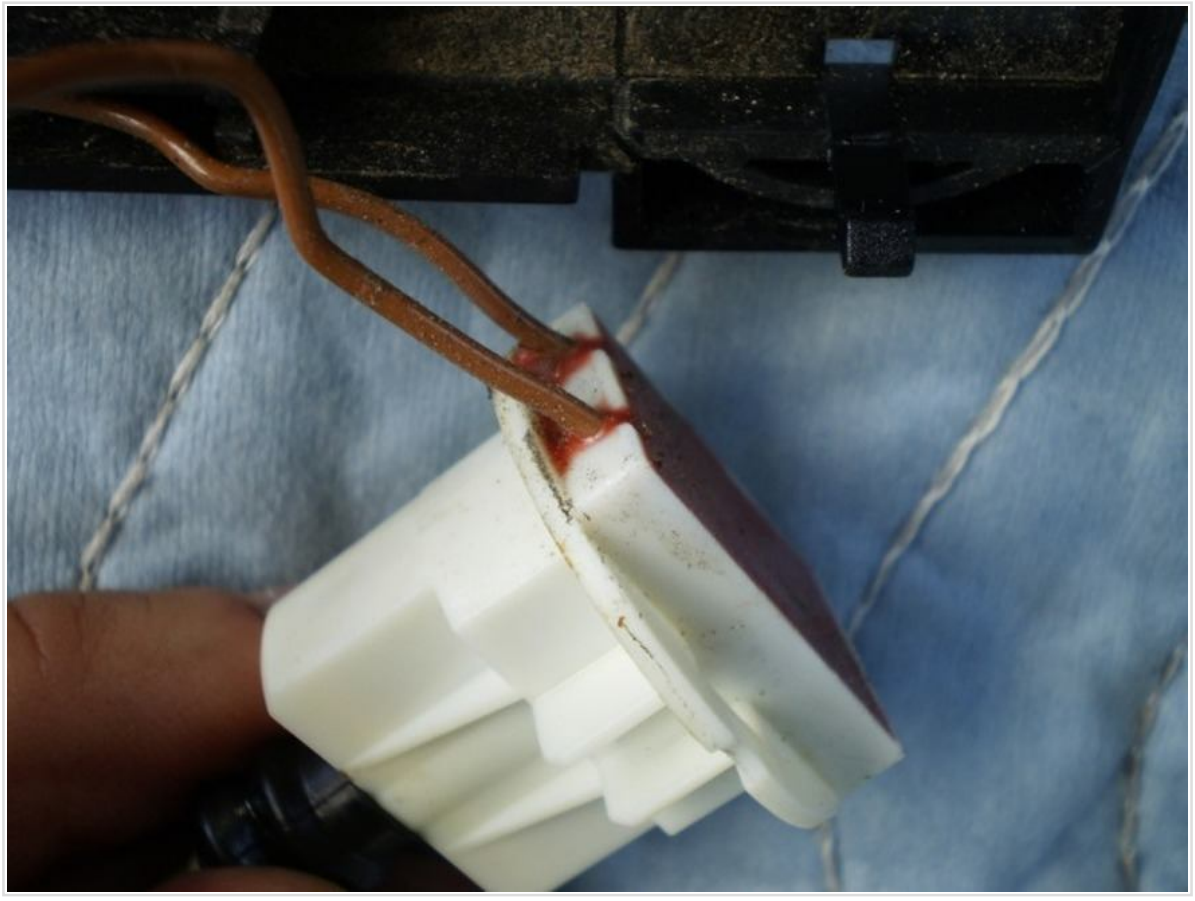


No need to bleed the brakes now....

Installation is the reverse of removal.

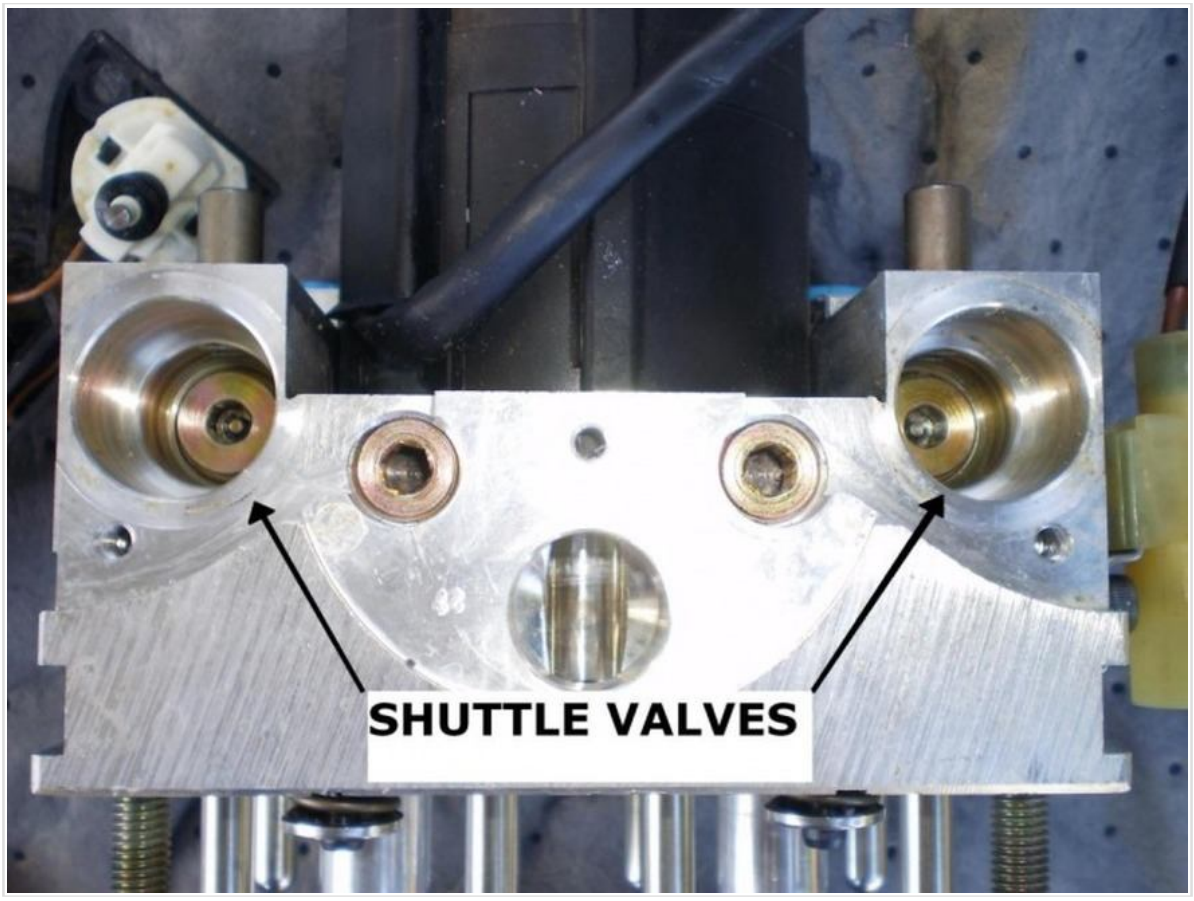
A CLOSER LOOK AT SVS (Shuttle VALVE Switches) and SV (Shuttle VAlves)

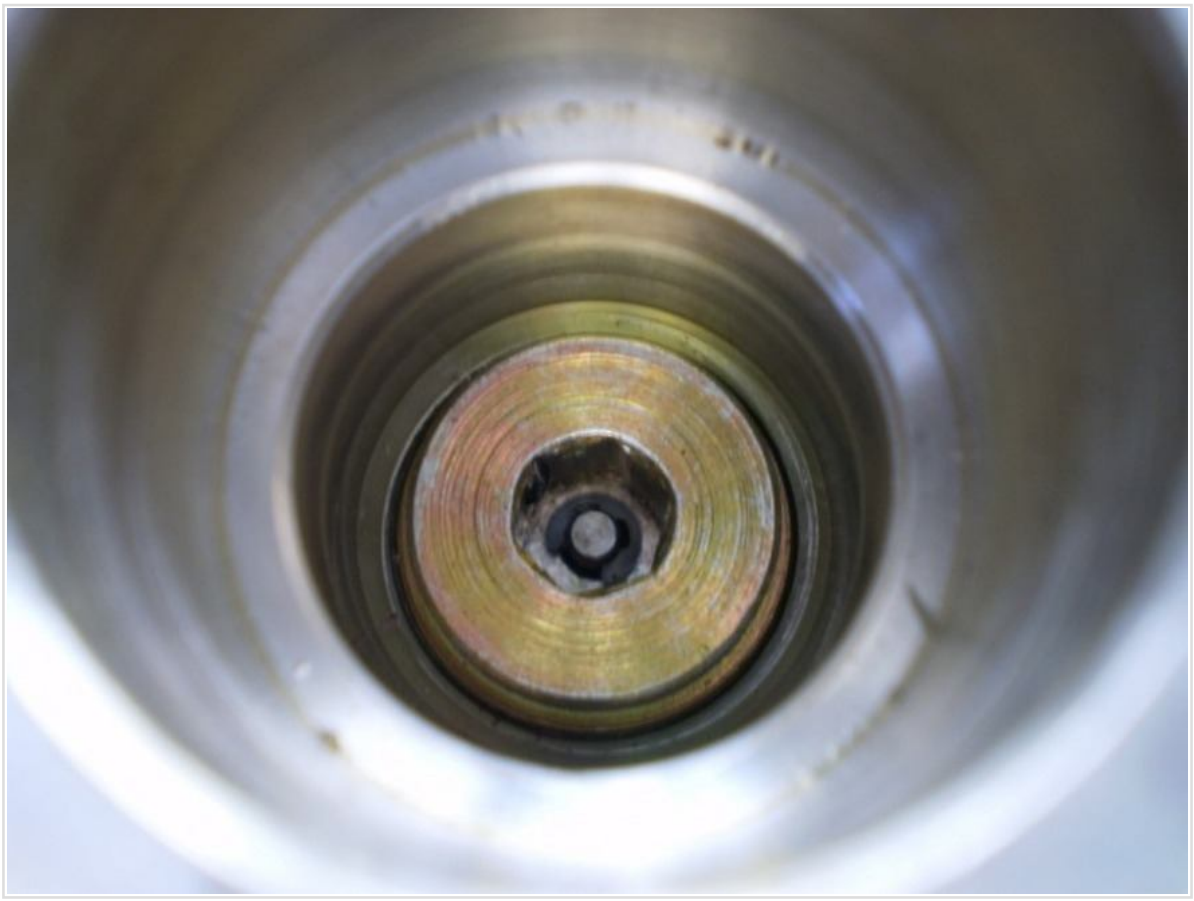




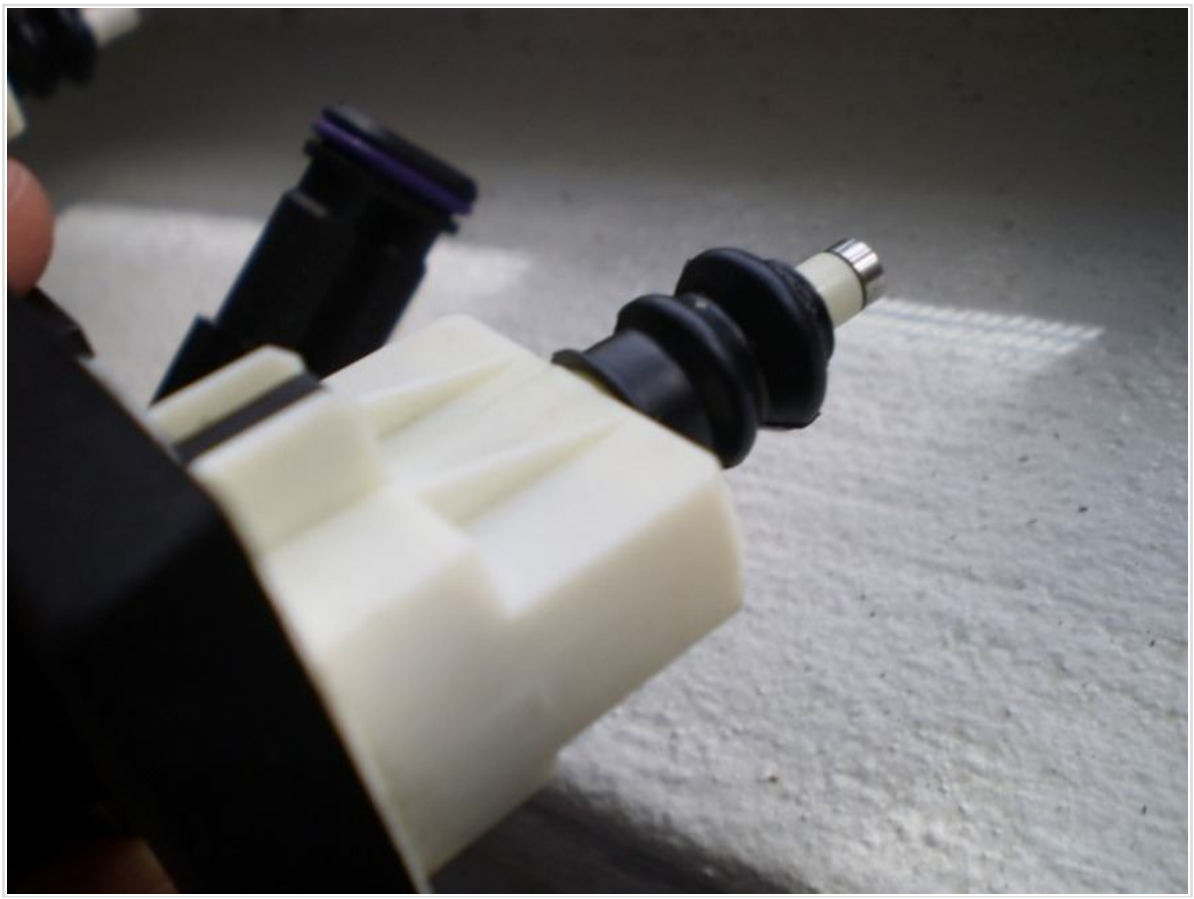
The rubber boot is what prevents brake fluid from seeping out of the shuttle valves and getting inside fouling the switch. If the shuttle valves are leaking, they may be the cause of your THREE AMIGOS, you can replace the seals with this
Shuttle Valve seal KIT from Falconworks in Arizona

UPDATE July 2011: See my ABS SVS SEAL replacement guide





Shuttle Valve. You can see the SMALL circlip that comes in the kit mentioned above.



Upon removing the boot I did find some fluid but not enough to cause any problems since they tested withing normal range.