

#TL100208

INSTALLATION MANUAL

MS100267

APR Haldex Stage 2 Pressure Relief Valve

02062026

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Notes:

These instructions were written for a North American-specification 8V RS3. Other vehicles, like the Golf R and S3 are similar.

When disassembling the car, be sure to keep all fasteners so they can be reused. It is recommended that you get some kind of compartmented tray to organize the fasteners, such as a fishing tackle box or several large ice cube trays. Fasteners that are not reused for reinstallation are noted in the instructions. All directions used in this manual (right, left, front, etc.) are based on if you were sitting in the driver's seat of the car.

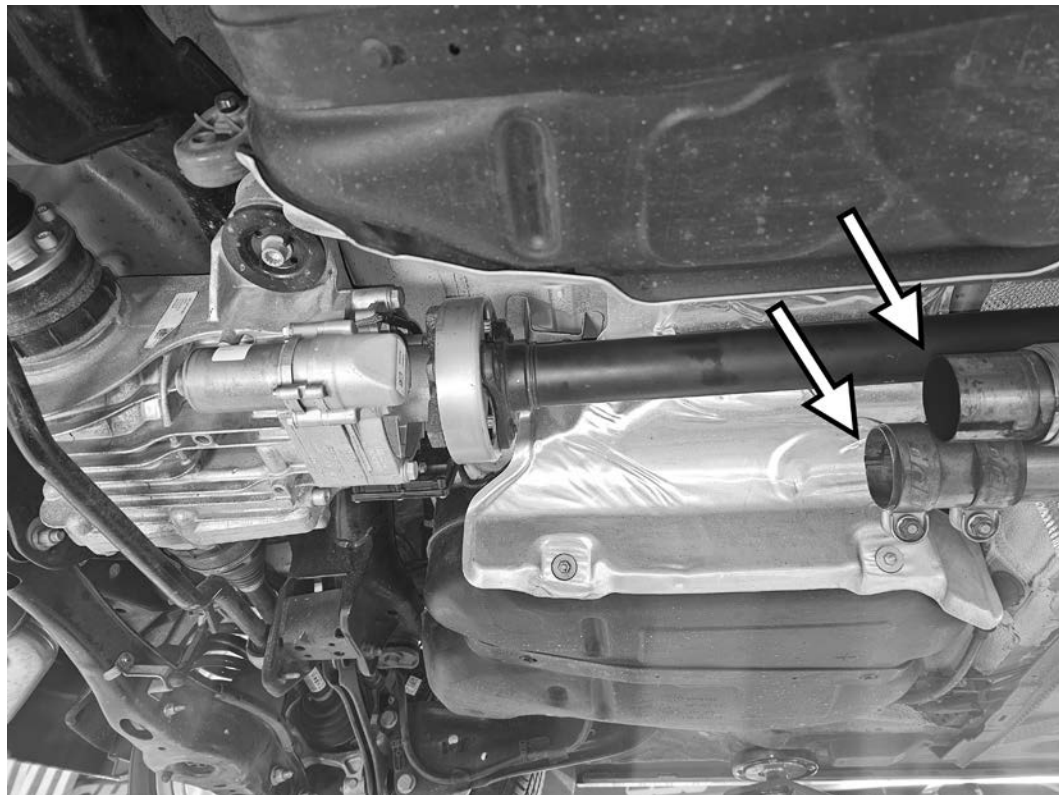
These instructions assume that you have basic mechanical skills and several varieties of basic hand tools in order to install the kit. If you have any questions about the install, feel free to contact your APR representative.



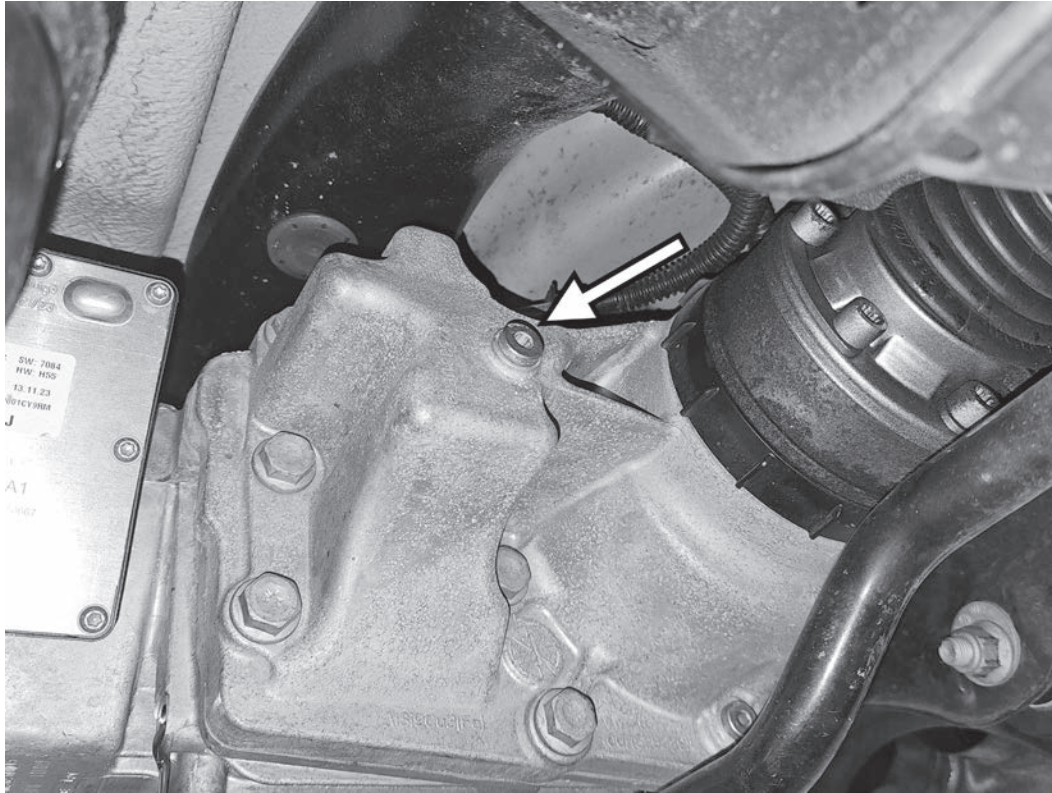
1) Securely lift the car using an auto lift or a jack and jackstands, then remove the engine cover.

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2) On some cars, like the RS3, it is necessary to remove the catback portion of the exhaust. On others, like the Golf R, you can usually work around it.

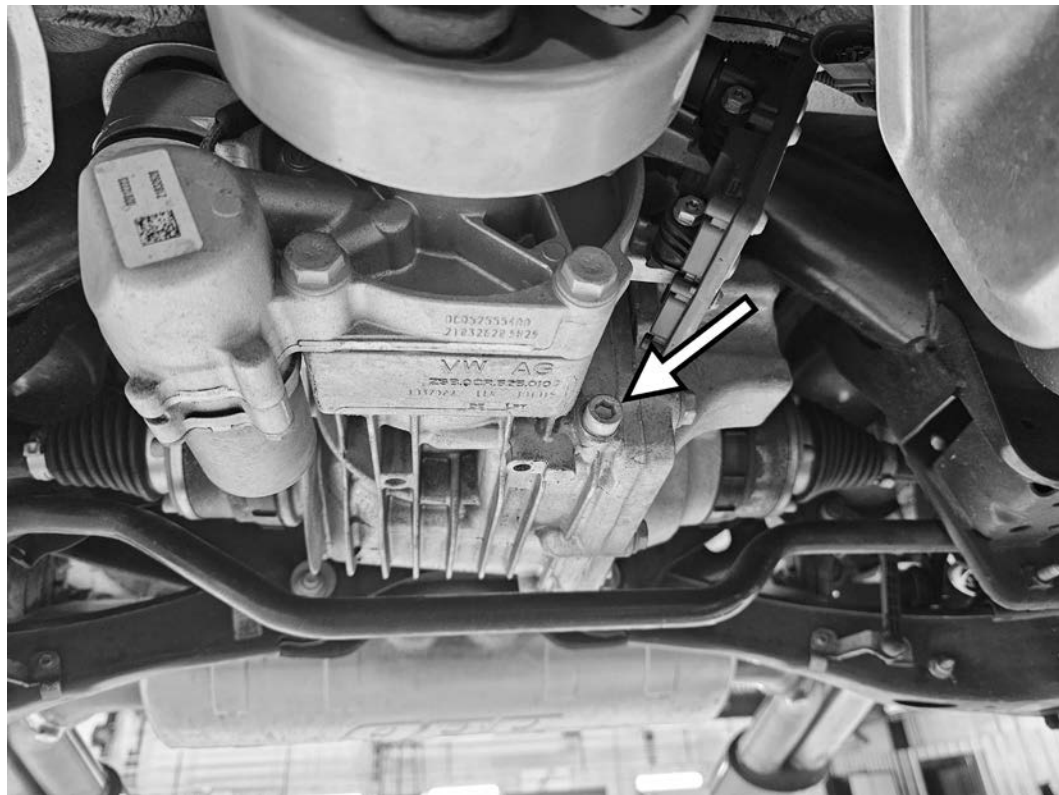


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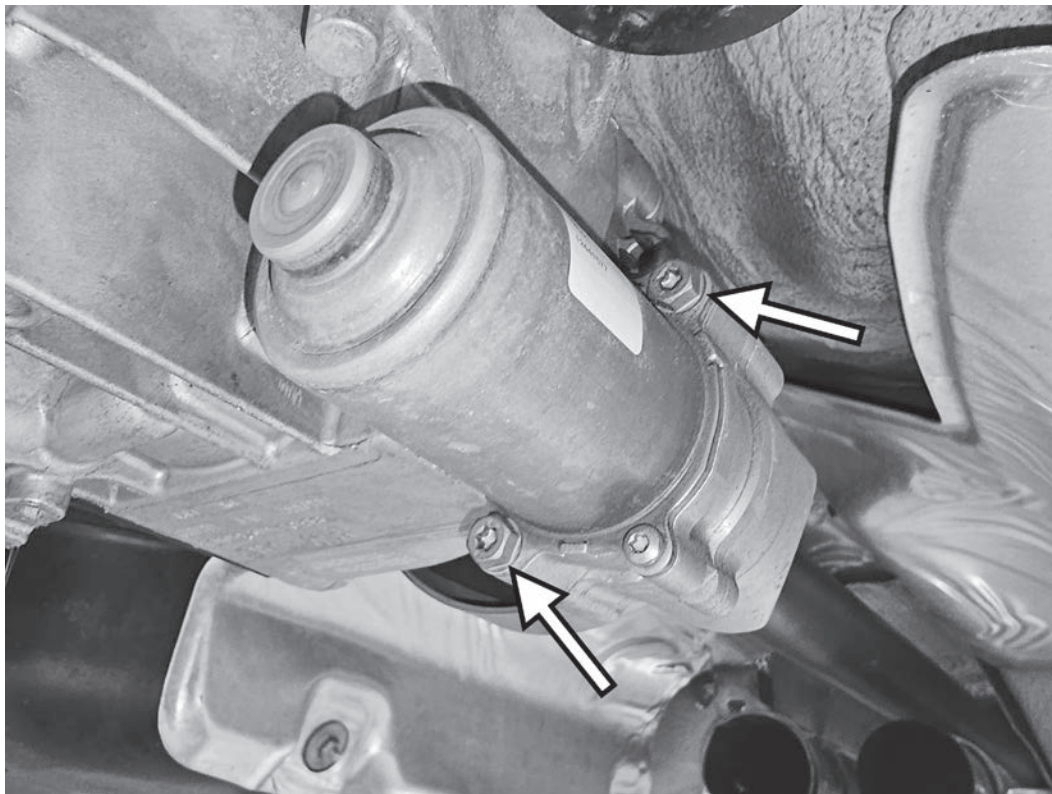


3) Use a 5mm allen socket to remove the fill plug of the AWD clutch system. The plug is located on the left front side of the rear differential.

4) With an oil drain pan underneath, remove the 8mm allen drain plug for the AWD clutch system. Allow all of the fluid to drain from the system.



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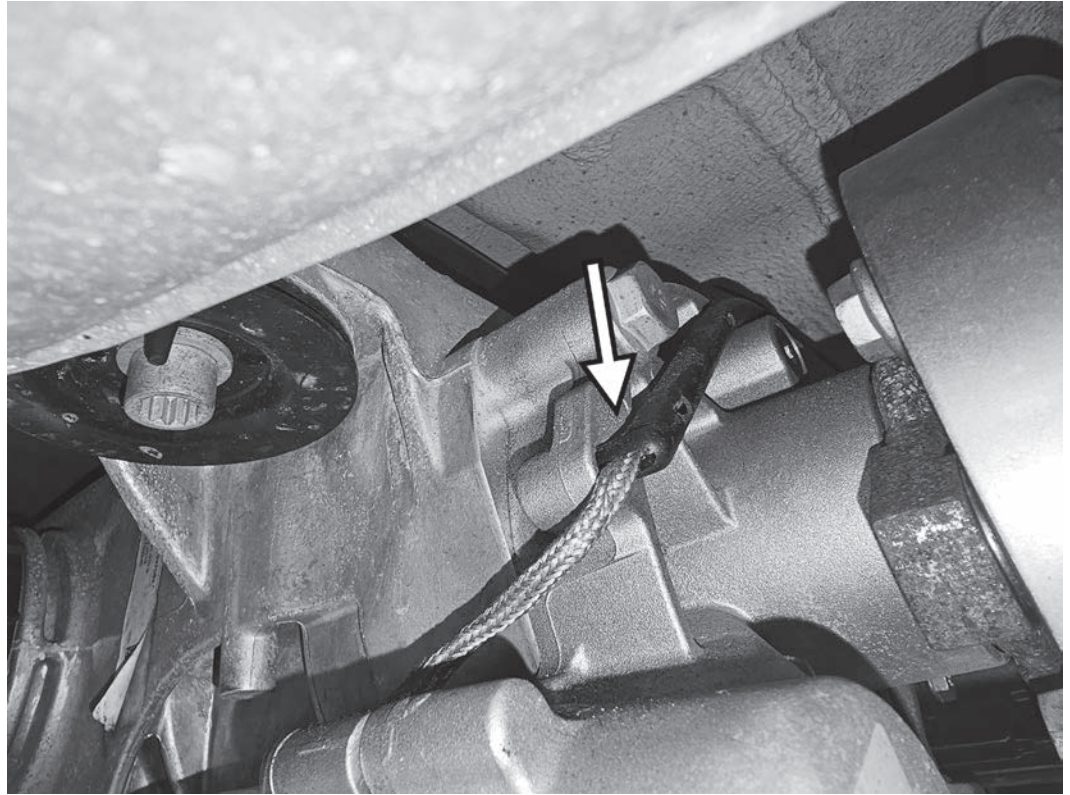


5) Remove the two 10mm hex screws on the AWD clutch pump. Some screws will also allow you to use a T30 Torx socket.

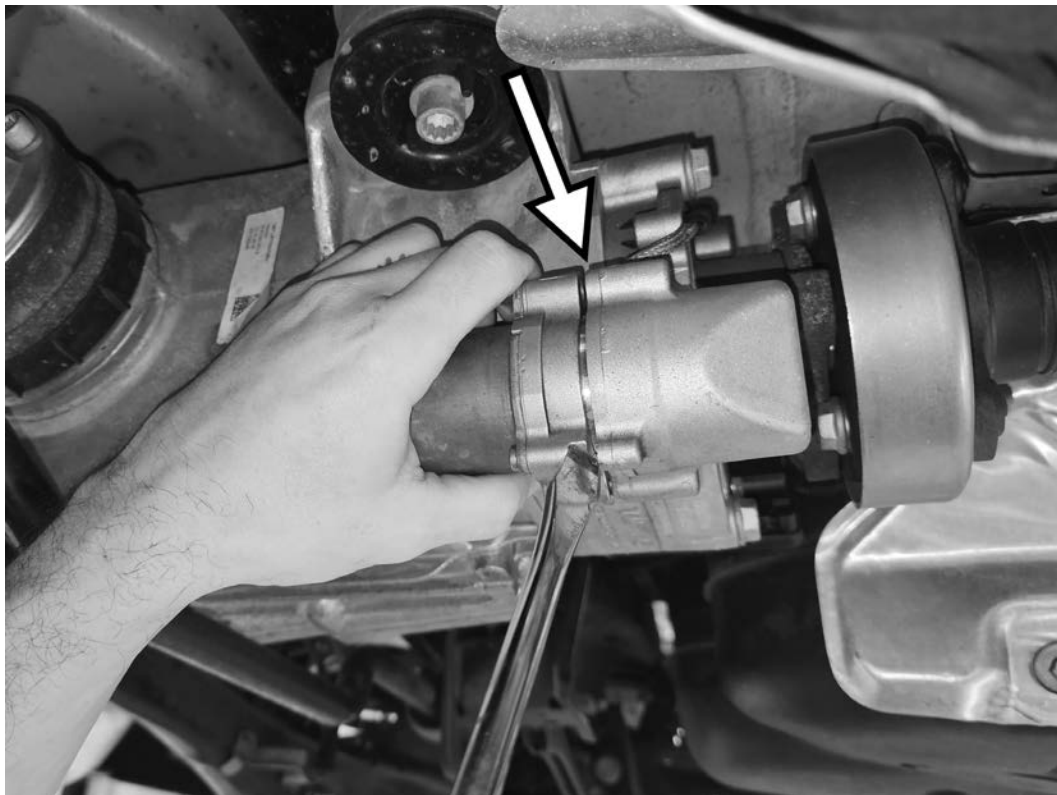
6) Follow the wiring harness coming off the front side of the AWD clutch pump to the AWD clutch controller. Disconnect this electrical connector at the controller.

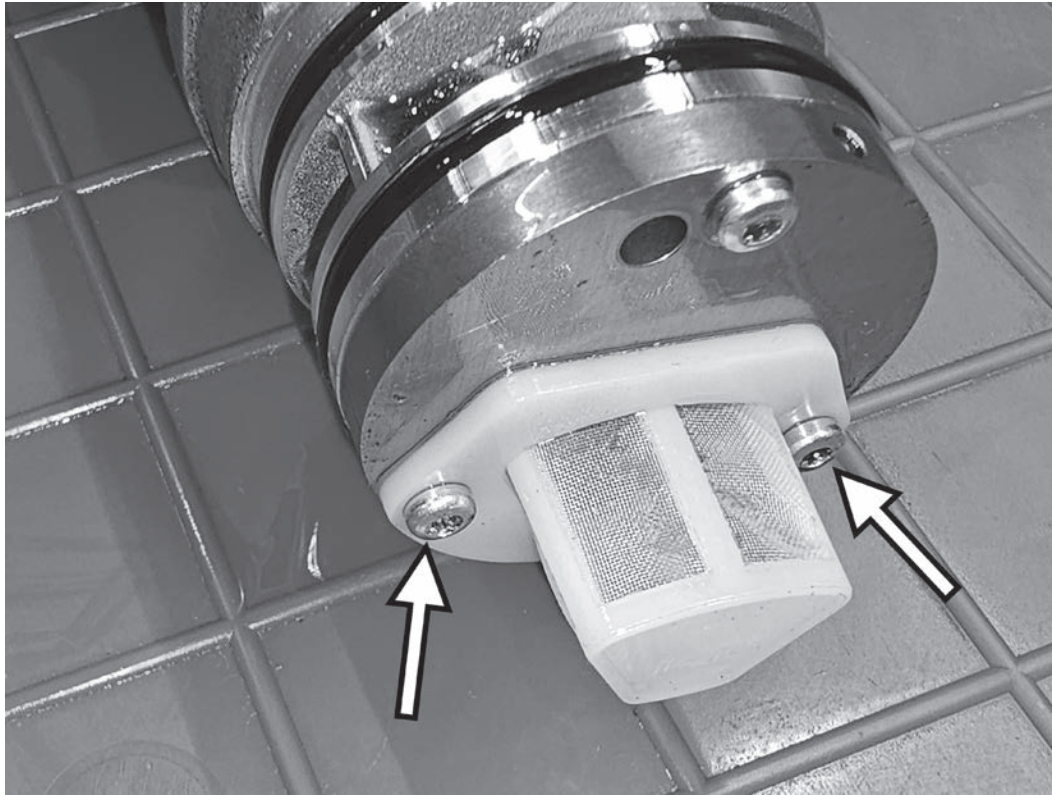


7) On the AWD pump wiring harness, squeeze to remove the two clips (one shown) holding the harness to the AWD clutch housing. Free the harness up from above the housing.



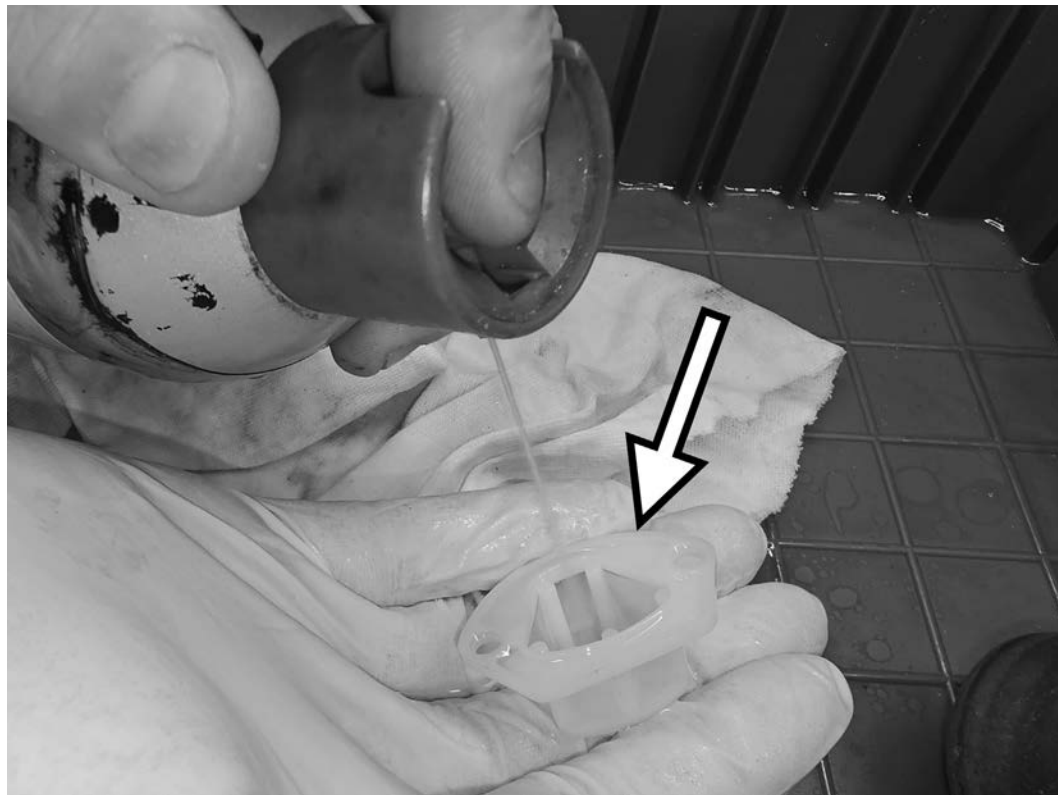
8) Using a screwdriver or small pry bar, carefully separate the AWD clutch pump from its mounting location. There are two o-rings holding it in place, so it can be hard to pull out. Some fluid will come out once the pump is removed, so have a drain pan underneath.

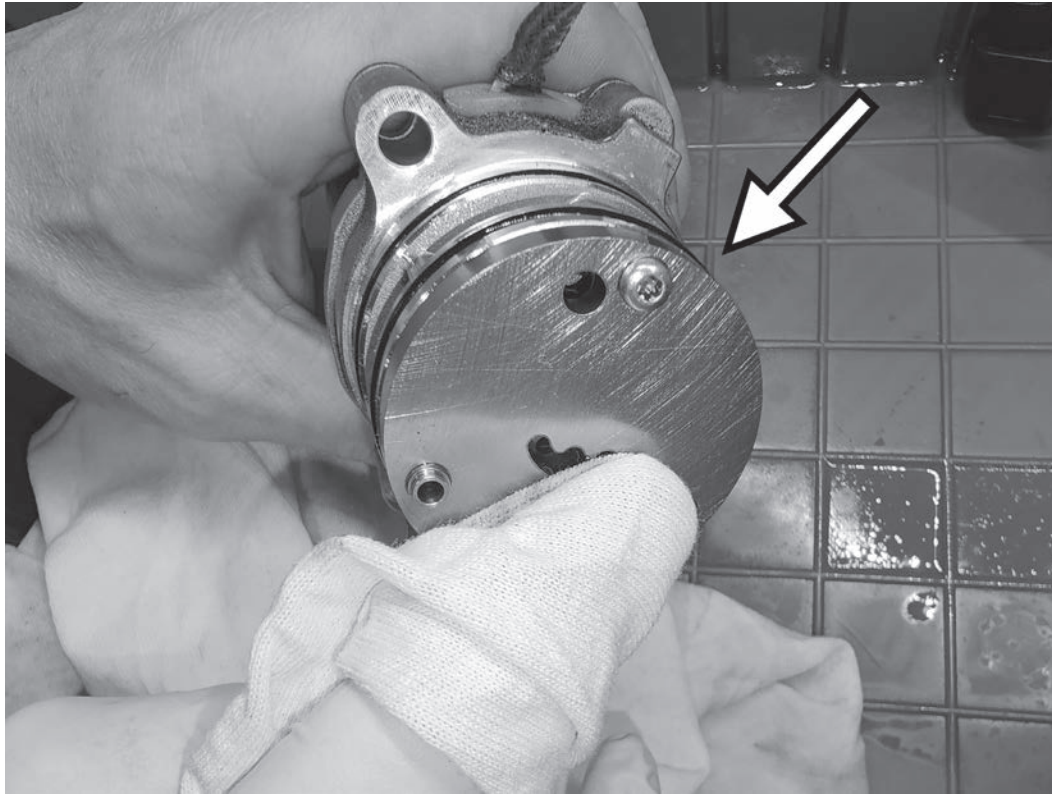




9) With the pump removed and in a clean environment, remove the two T10 screws from the screen on the end of the pump. Separate the screen from the pump, noting that there are two tapered dowel pins beneath the screws that may fall out.

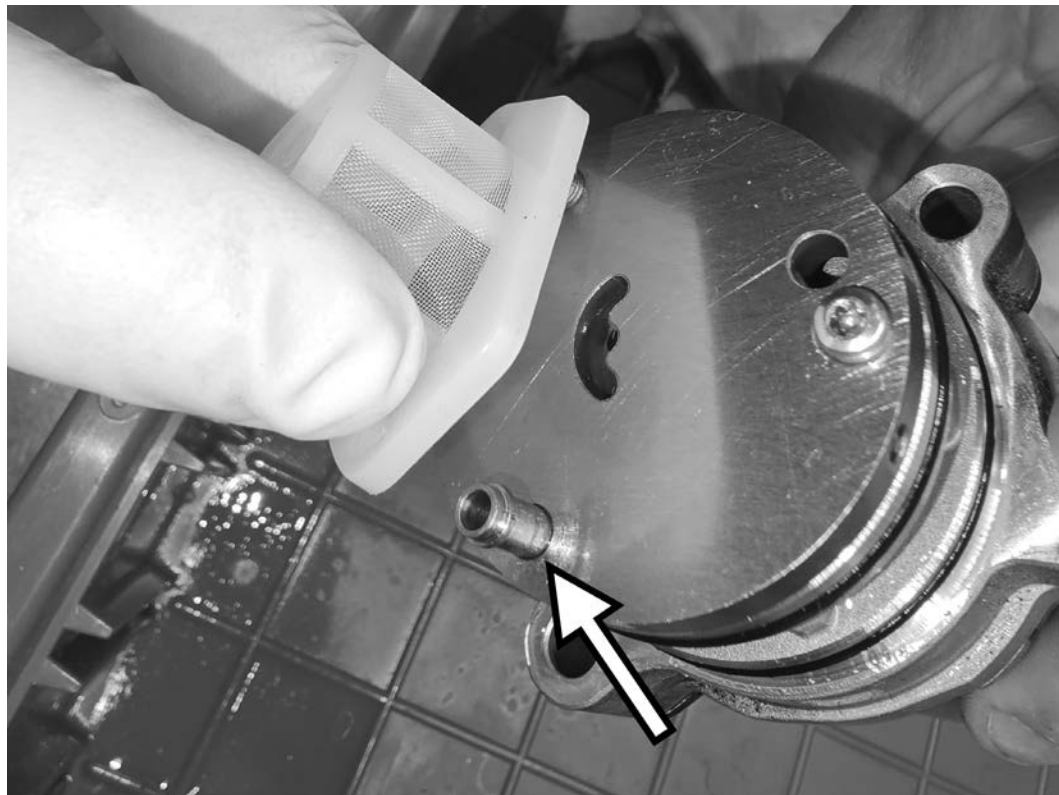
10) Thoroughly clean the screen with a solvent like brake parts cleaner or acetone. It is not uncommon for the screens to be very dirty and/or filled with small metal particles. Not cleaning the pump well can prevent the APR pressure relief valve from working correctly.





11) Clean the base of the pump with the solvent and a clean cloth, wiping down both the end of the pump and the sealing surface that the two o-rings are on.

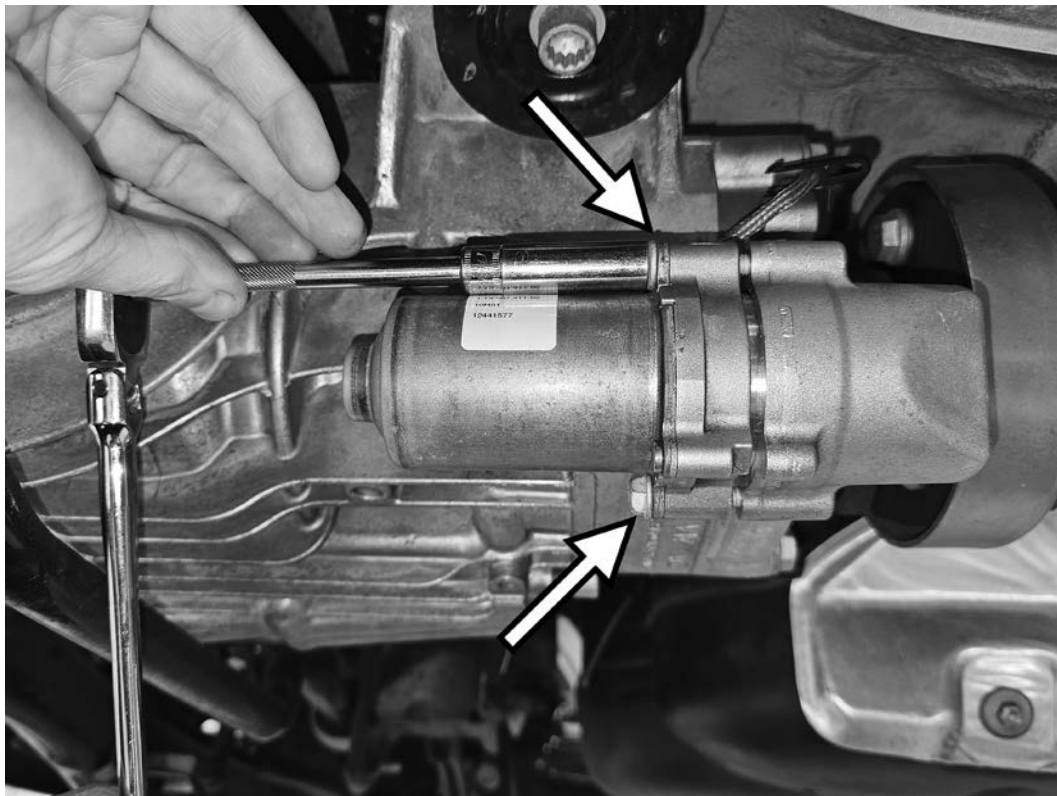
12) Reinstall the screen to the end of the pump using the two original T10 screws. Ensure that the two tapered dowel pins are still installed in the end of the pump. Tighten the two T10 screws to 3Nm (27 in-lbs).



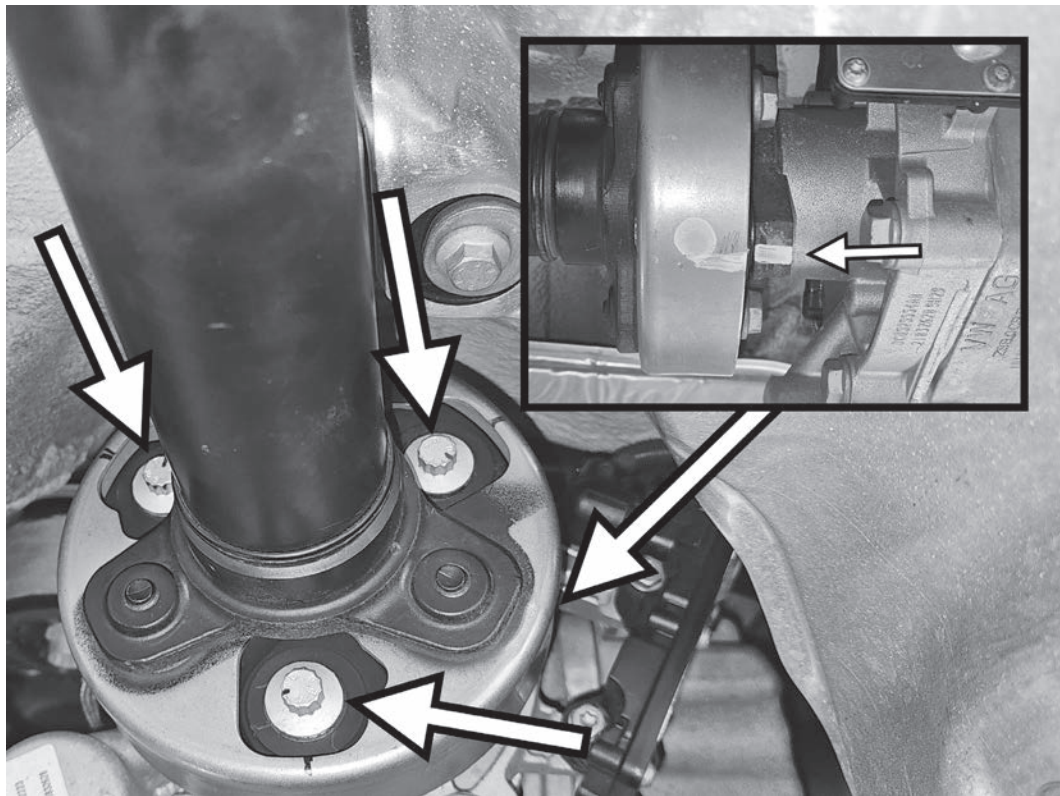


13) Remove the two o-rings from the AWD clutch pump and install the two new, supplied o-rings in the same locations. Slightly lubricate the new o-rings with silicone grease or a light coating of new AWD clutch oil.

14) Reinstall the pump onto its mounting location on the AWD clutch housing. Using the two newly supplied 10 mm hex screws, carefully tighten each one a few turns at a time, alternating between the two screws until the pump is fully seated. Then tighten the two screws to 9.5Nm (84 in-lbs).

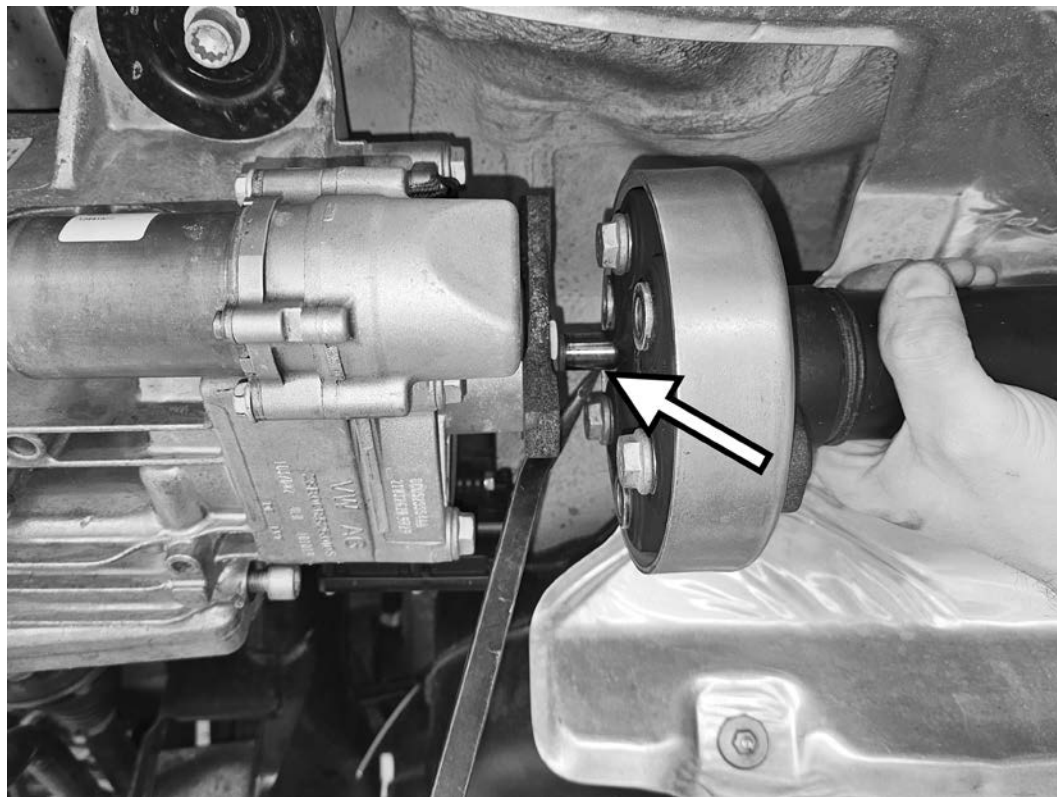


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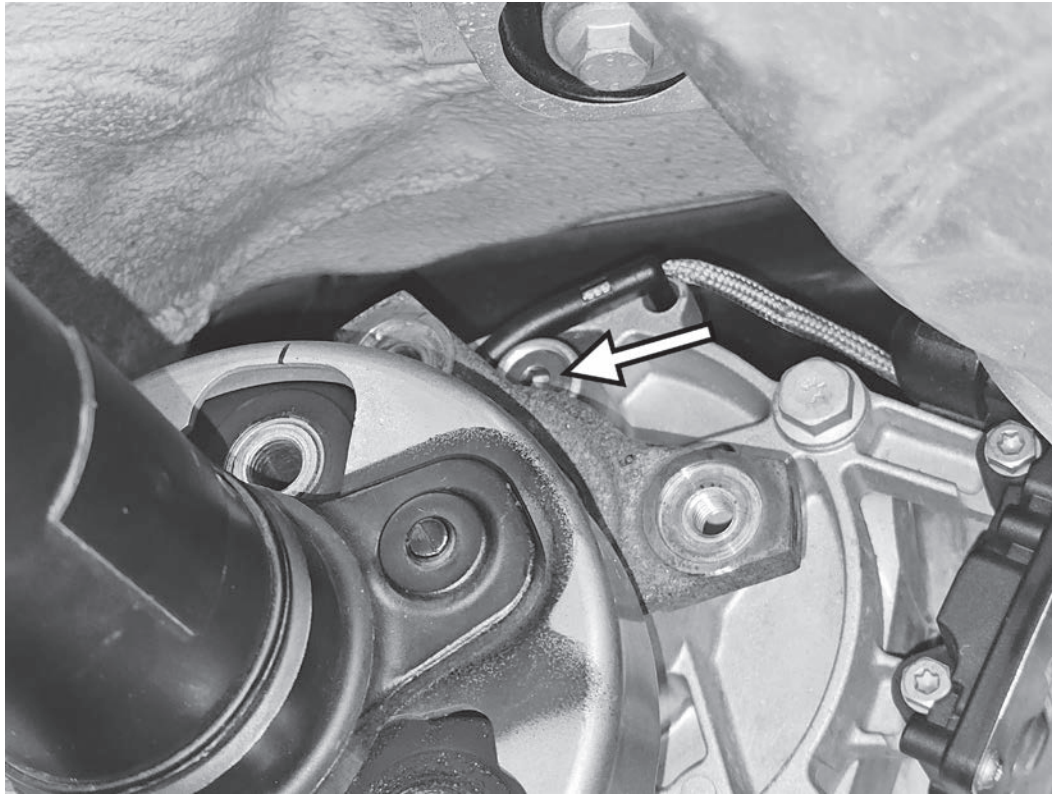


15) Place the car in neutral, and use a pry bar to rotate the driveshaft until all three 10mm 12point screws are easily accessible. Put the car back into park before removing the three 10mm 12point screws. Finally, mark the orientation between the drive-shaft and the input yoke of the rear differential, you always want to keep the two oriented the same when bolted together.

16) Using a pry bar, carefully separate the driveshaft from the front input yoke on the transmission. Push the driveshaft forward in the car until the metal pin from the input yoke comes out of the driveshaft. Then push the driveshaft down and to the right side of the car.



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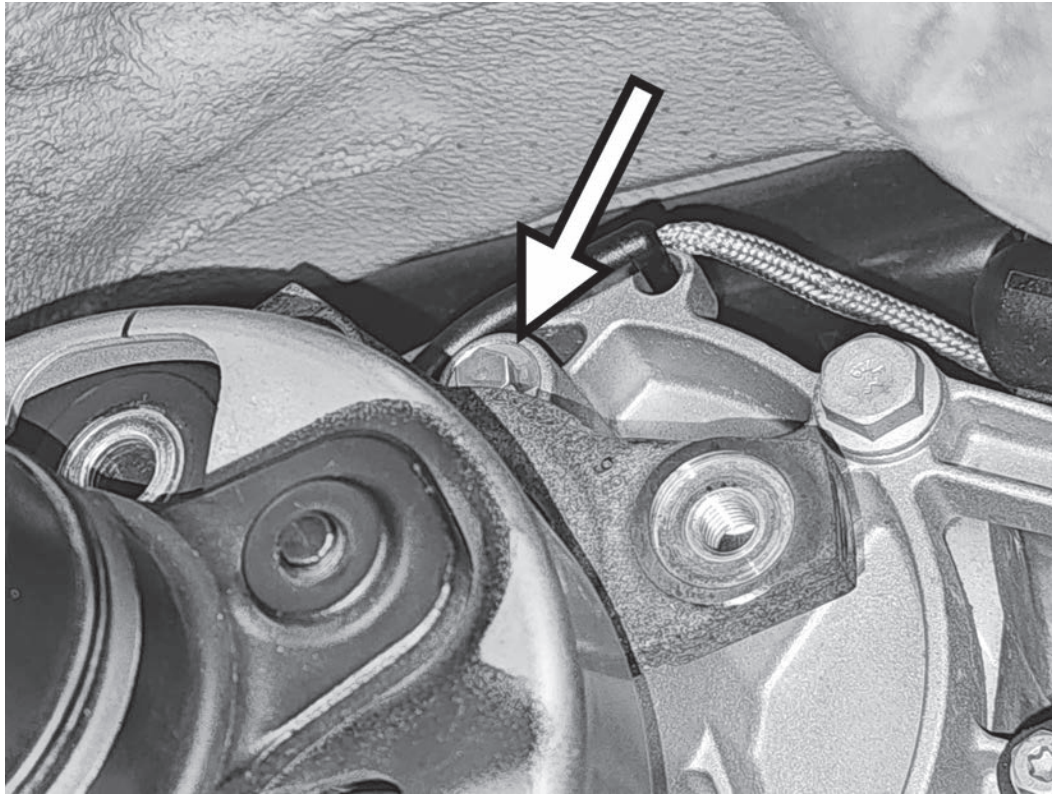


17) Using a 6mm allen, remove the stock pressure relief valve, located just above the input shaft yoke. To fully remove the valve, you may need to rotate the yoke slightly by rotating the rear tires.

18) Ensure the o-ring is still on the end of the APR pressure relief valve. Slightly lubricate both o-rings on the APR valve with silicone grease or a light coating of new AWD clutch oil.



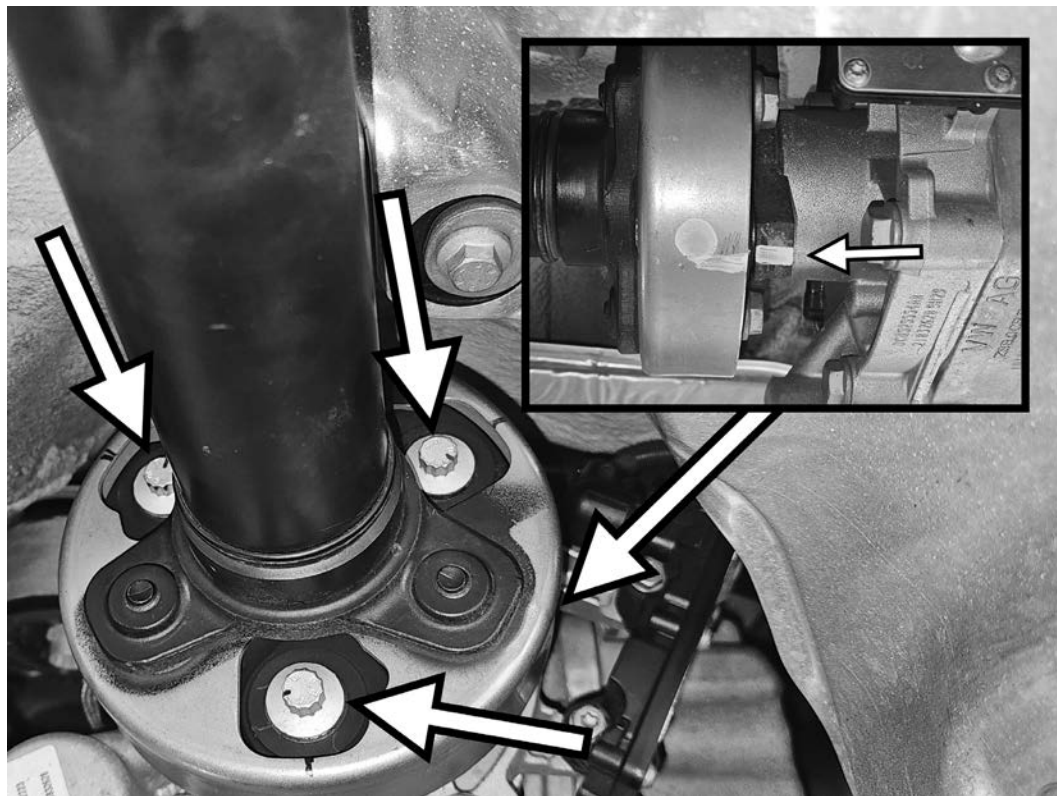
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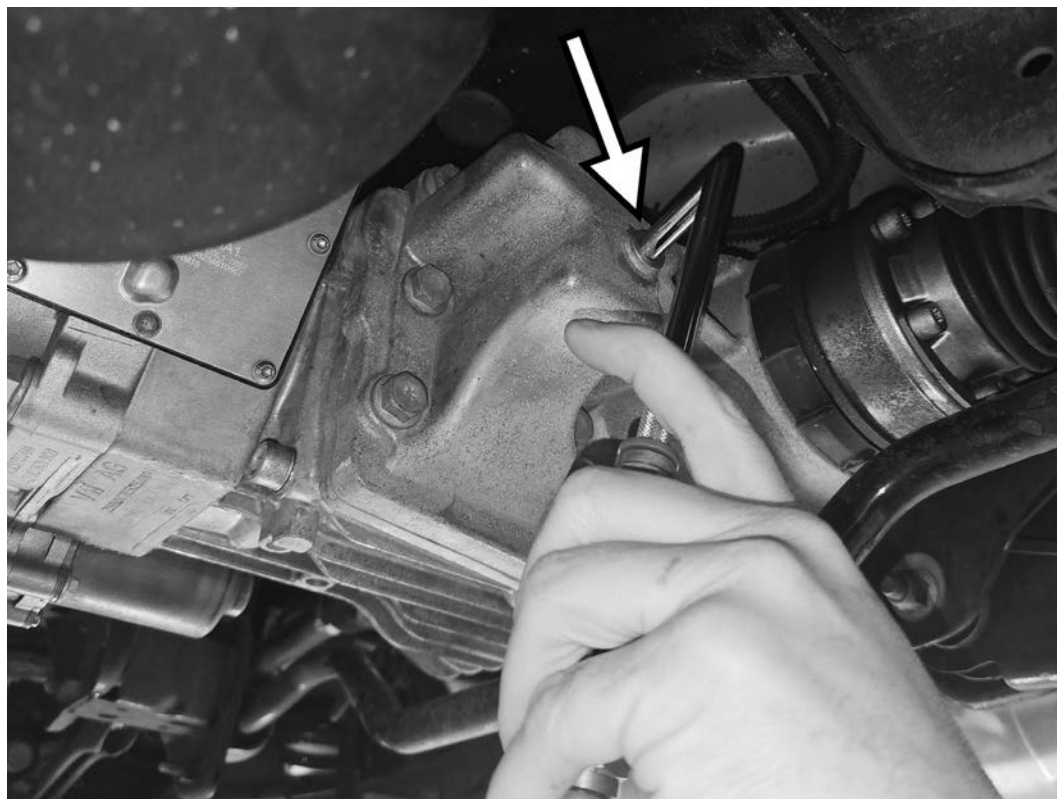
19) Install the APR pressure relief valve in the same location the stock valve came out from. Thread the valve all the way in until seated. Tighten the valve using a 10mm hex socket to 11Nm (97 in-lbs).

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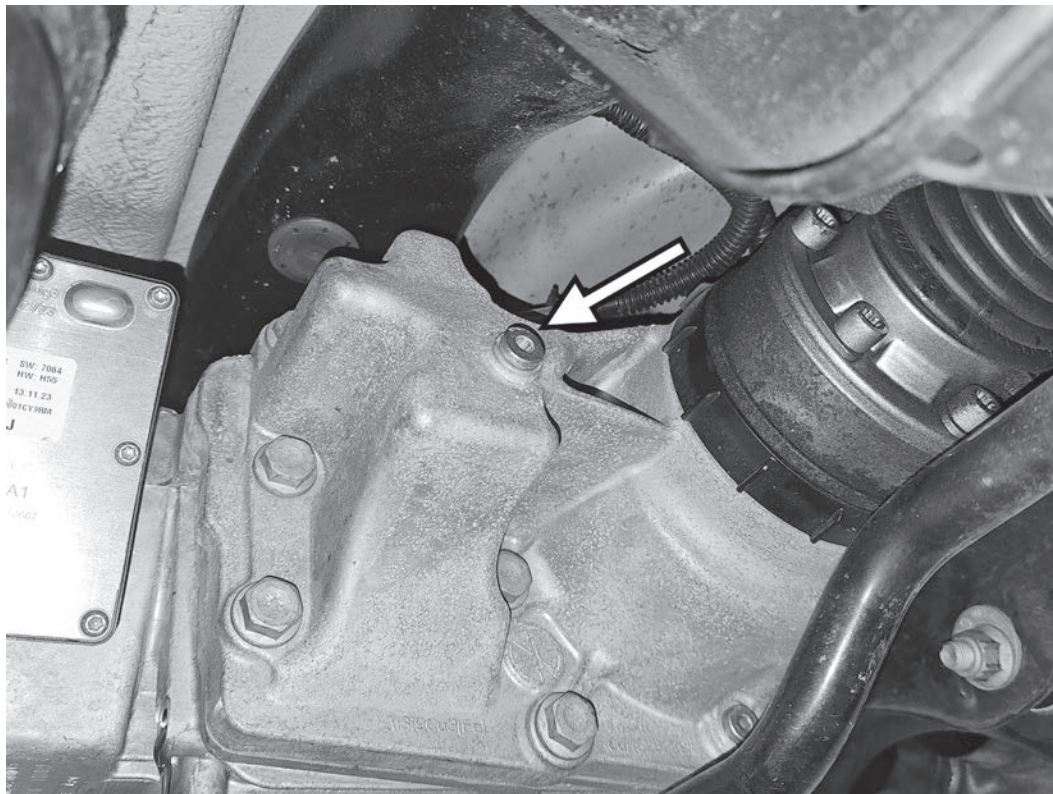
20) Pry the driveshaft back into place on the input yoke. Ensure that the mark previously made on the driveshaft is correctly aligned with the mark made on the input yoke. Install the three new, supplied 10mm 12 point triple square screws. Tighten all three screws to 50Nm (37 ft-lbs). Then tighten each screw an additional 90°.



22) Use any commercially available oil transfer pump to fill the AWD clutch with the correct AWD clutch fluid. There is a build date split in 2019, so contact APR if you are unsure which style of fluid your car has. With the car on level ground, fill the AWD clutch with fluid until the excess oil drains from the fill plug hole.

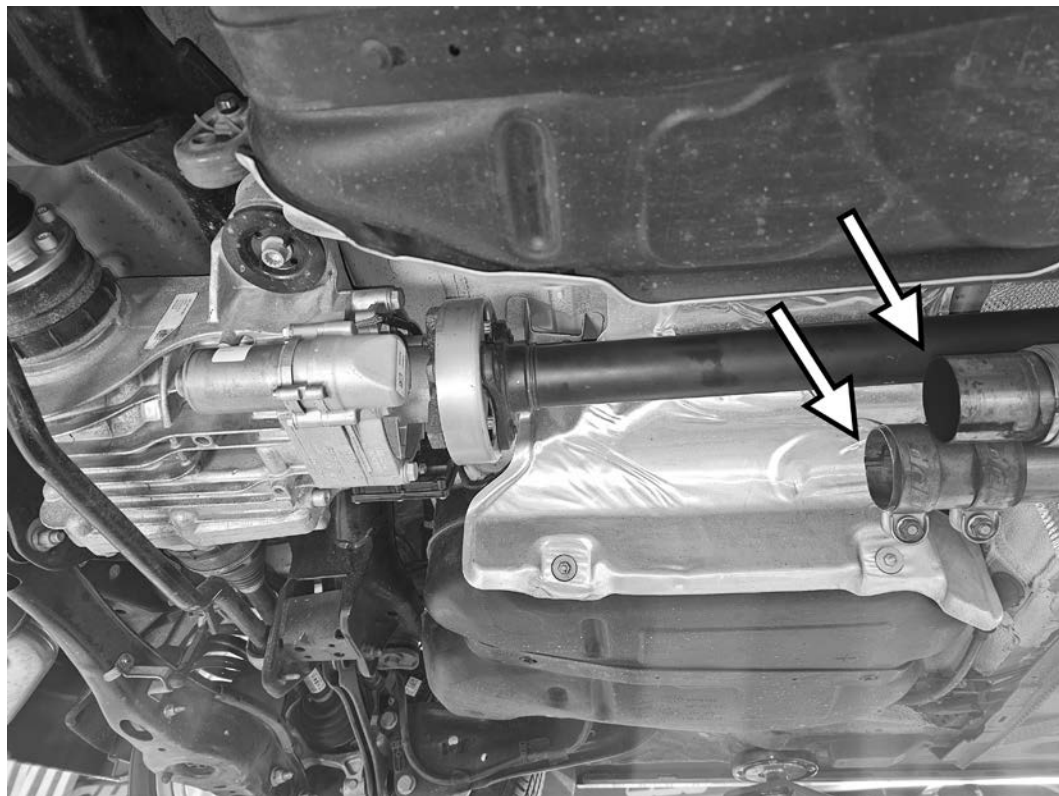


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23) Install the new, supplied 5mm allen fill plug into the side of the AWD clutch. Tighten the plug to 15Nm (132 in-lbs).

24) If you removed the catback portion of the exhaust, reinstall it now.



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