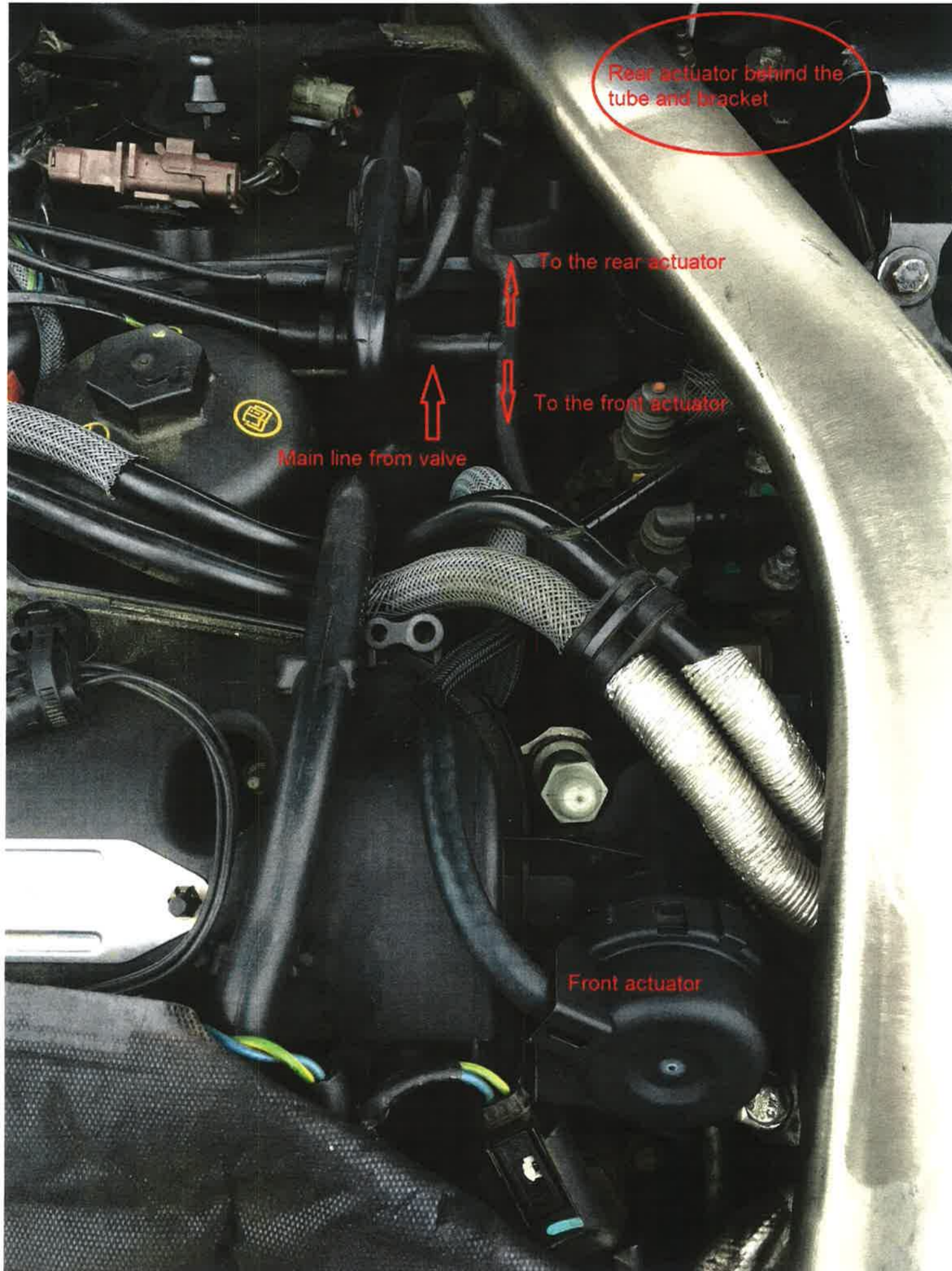
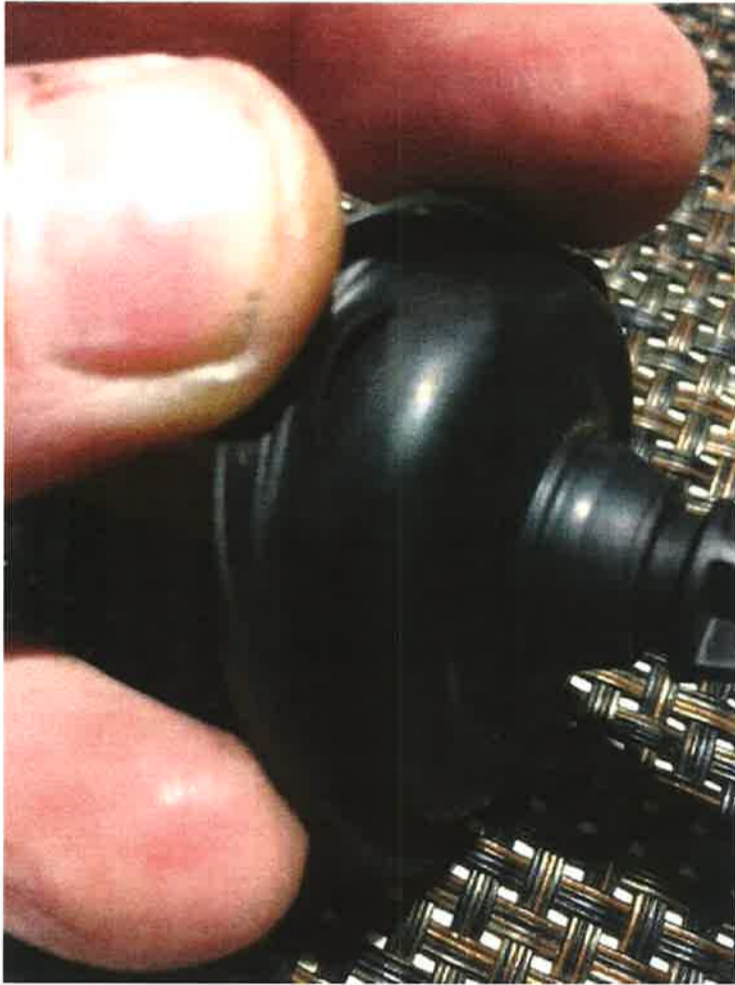


**Citroen C6 2.7 HDI
SWIRL flap actuator repair.**

To check if the actuators are working/holding vacuum disconnect the main vacuum line and just suck with your mouth from the connection to the actuators. If you can breathe through the tube like I could, one of the two actuator membranes is shot. Since the vacuum lines are connected it means neither of them is working. You can further check each of the actuators separately but it doesn't matter much.



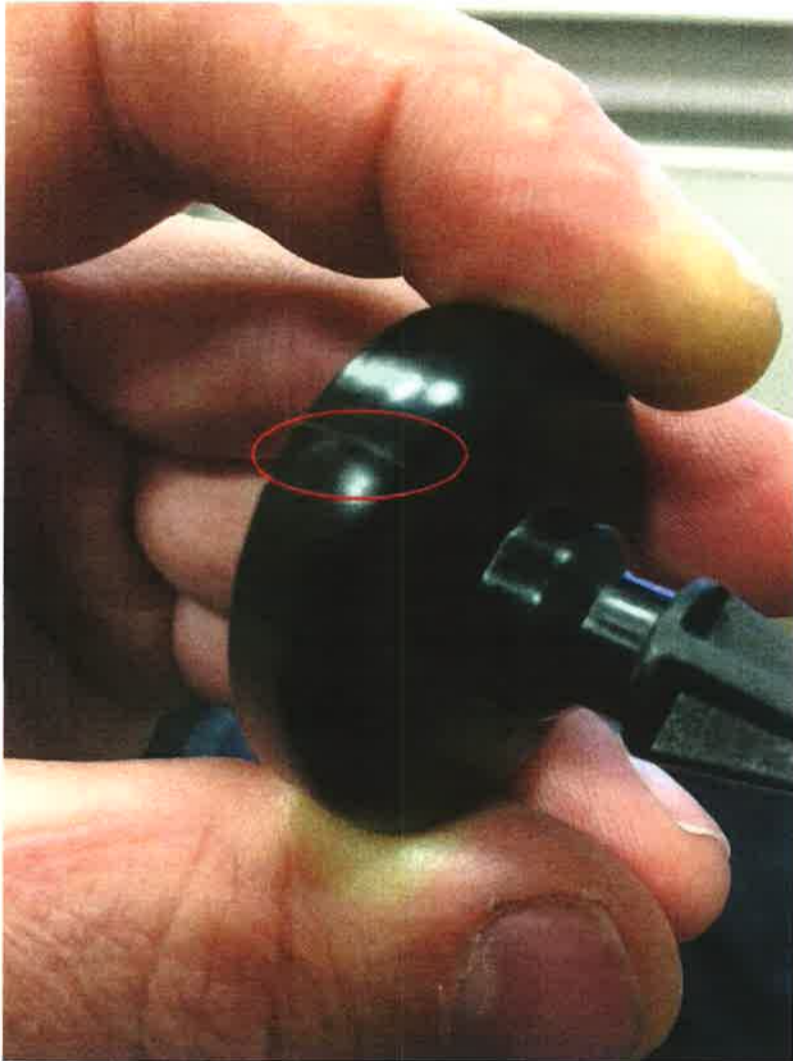
In my case the front actuator mebrane was bad. Did a temporary fix with bicycle tyre repair kit but it lasted about one ride so don't bother.



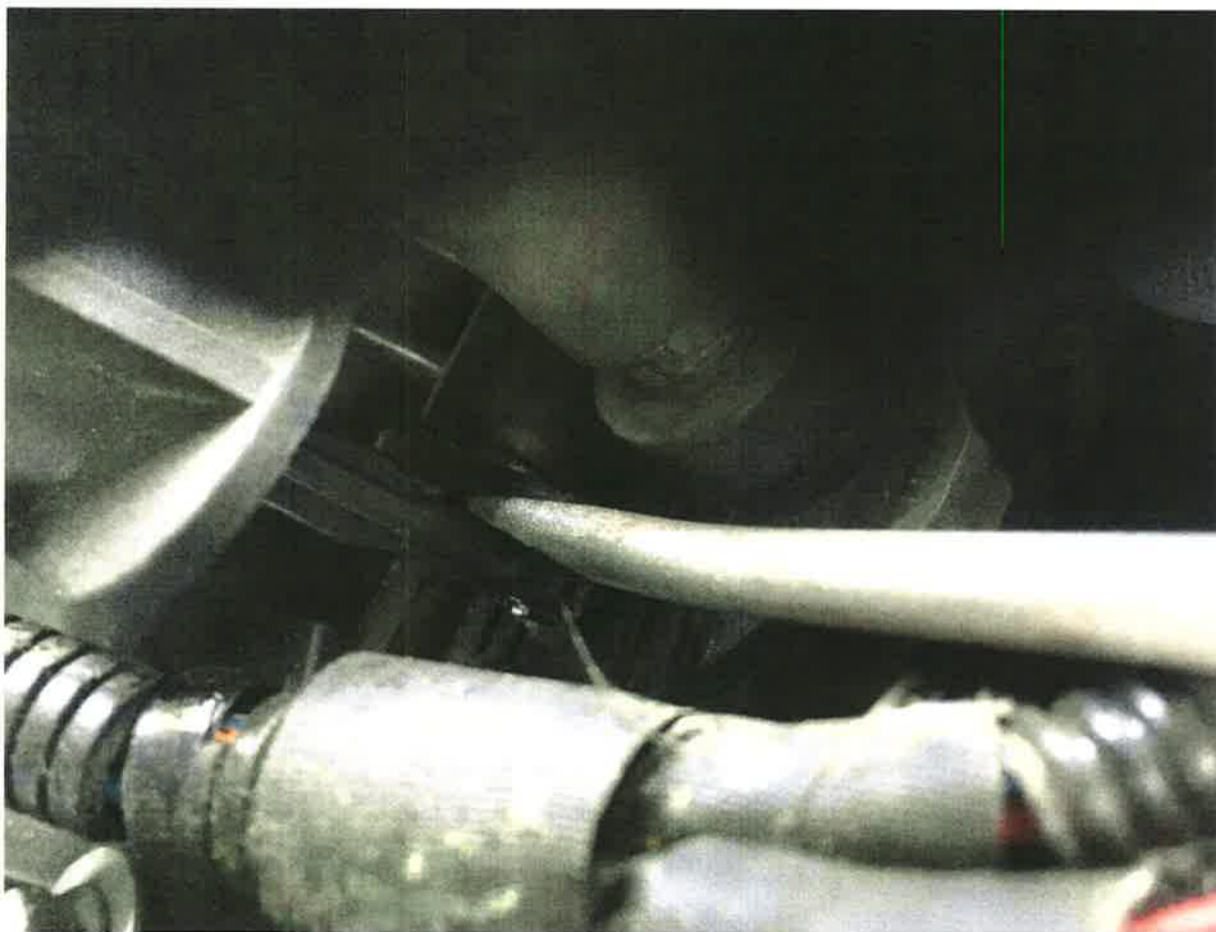
PSA in its infinite wisdom doesn't deliver the actuators separately, you can only buy the new valve covers with actuators attached to it for 270 euros each. Fortunately it is not the case with good old Jaguar. Part number **C2C41233** and there is the whole repair kit with caps, springs, actuator arms and rubber membranes for about 34 euros. (Price on www.partacus.de)



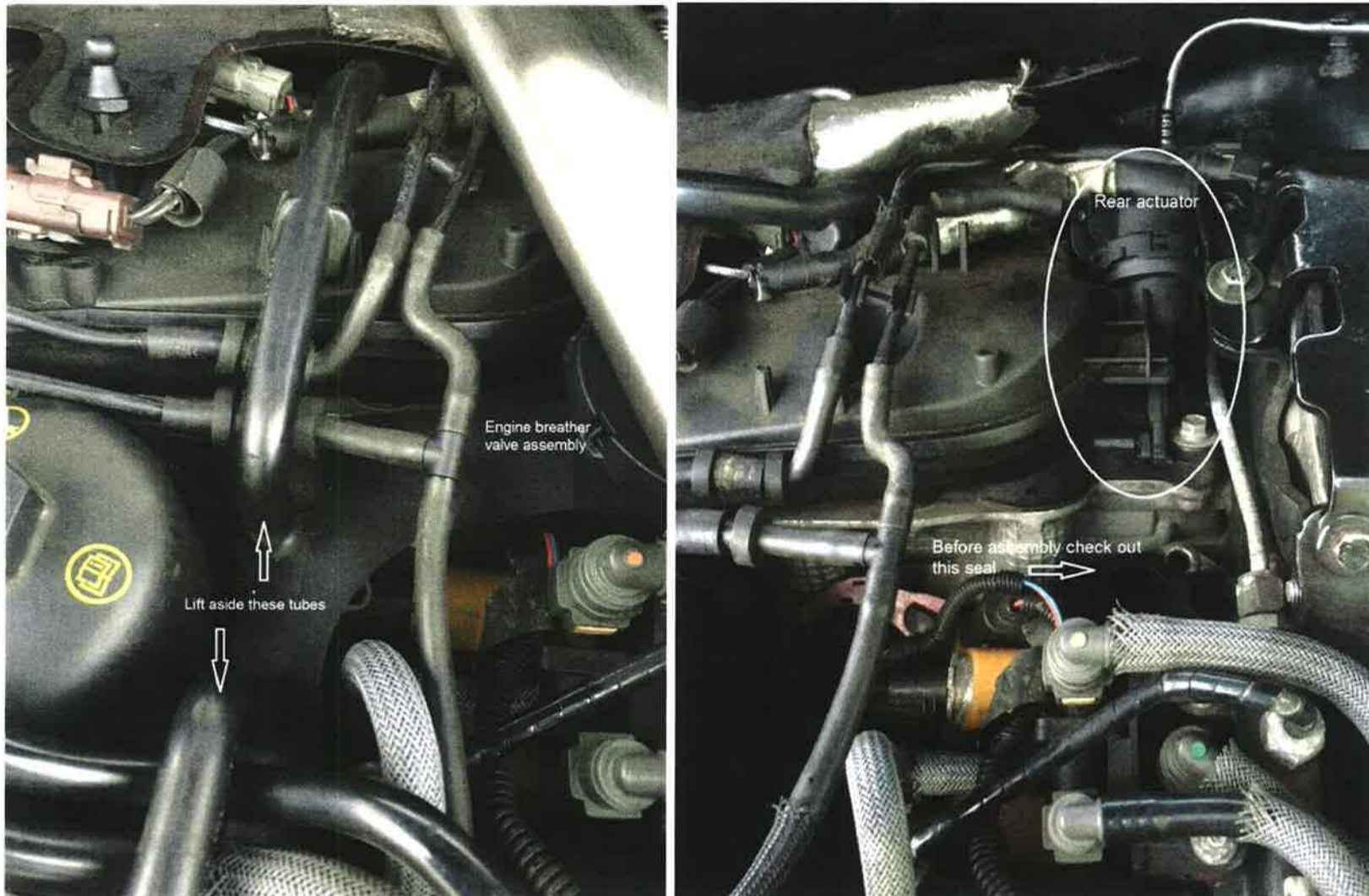
The likely culprit for the rubber to brake when it should probably last a lifetime, is the sharp strip on the arm, remnant of the manufacturing process just where the rubber sits. It is therefore wise to sand it down with some fine sandpaper. I used wet 1200 grade, maybe even finer is better.



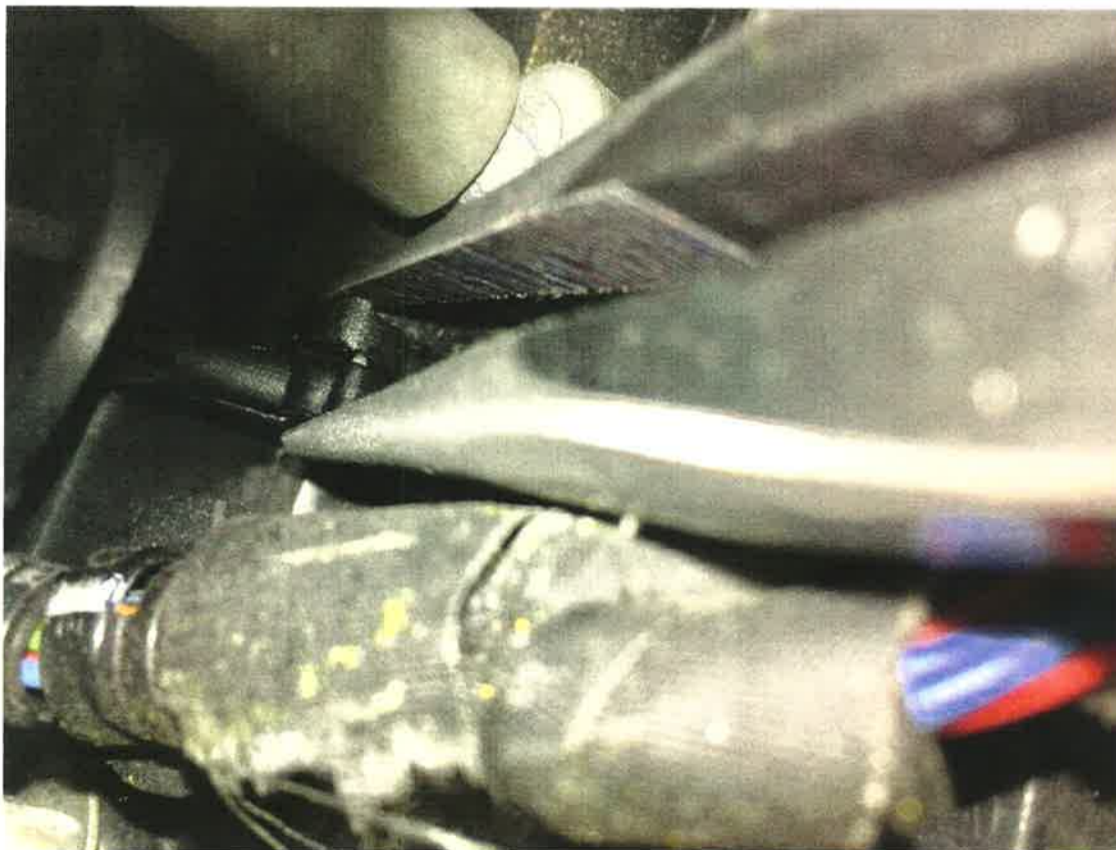
The installation process is straight forward. Remove the metal turbo pipe and small bracket, remove the caps, and unclip arms carefully from the ball joints with flat screwdriver. Obviously you don't have to worry about braking the old caps during removal.



In order to remove the rear actuator the engine breather valve assembly has to be removed. Lift aside the rubber tubes, fuel tubes and vacuum tubes. Then just lift the assembly upwards. Before reassembling check the seal pointed on the Picture.



Install the arms to the ball joints first then the spring and finally the cap. To squeeze the arm back to the ball joint I used straight pliers with narrow jaws (or something like that, don't know how to describe them exactly). It is better to rise the ball joint arm a little bit so that the pliers can fit better.



Good Luck!
Vaho