injector rail set - VW T5 2.5 TDI - installation guide

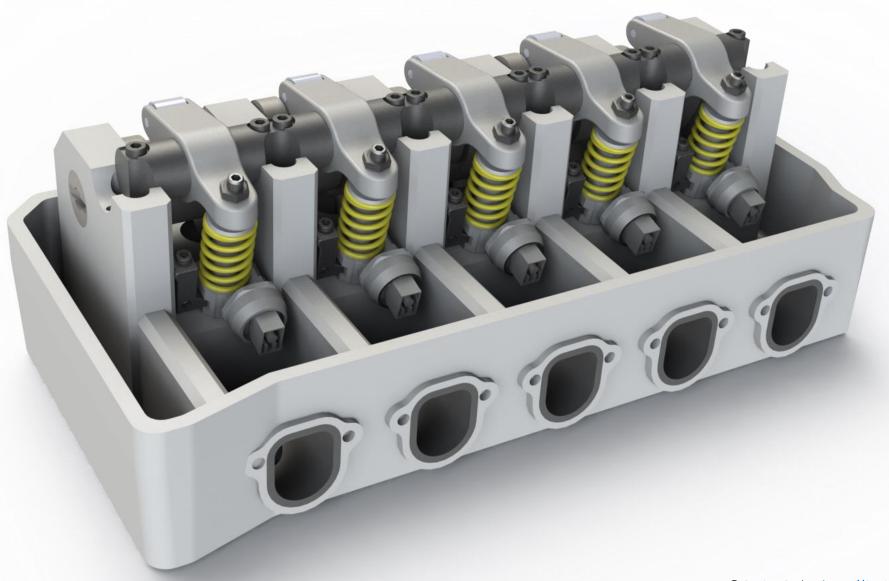
version 1.3

pumpe dūse abhiufe.

Injector Rail Set - VW-2.5-TDI - 07eins GmbH



The injector rail set is a product of 07eins automotive engineering

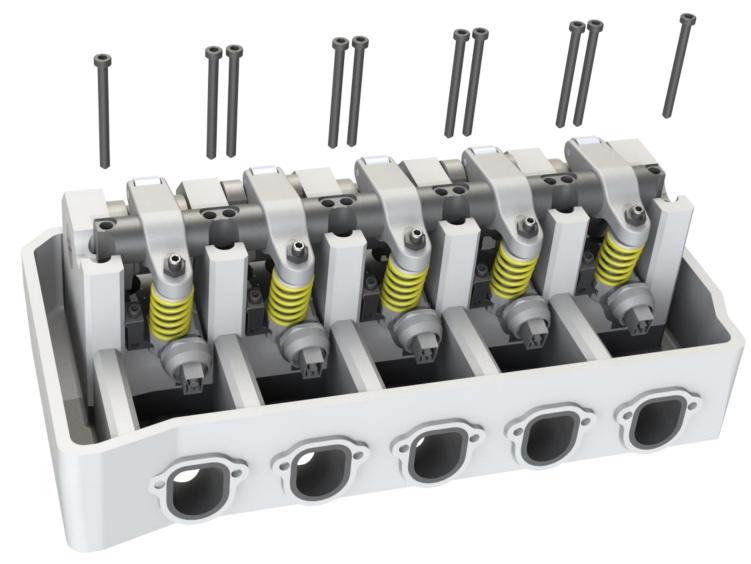


necessary steps in preparation:

- set radiator and front to service position (tilted forward)
- dismount air intake and intake manifold
- dismount exhaust-gas-recirculation-valve on top of valve cover.
- dismount value cover
- dismount injector wiring harness



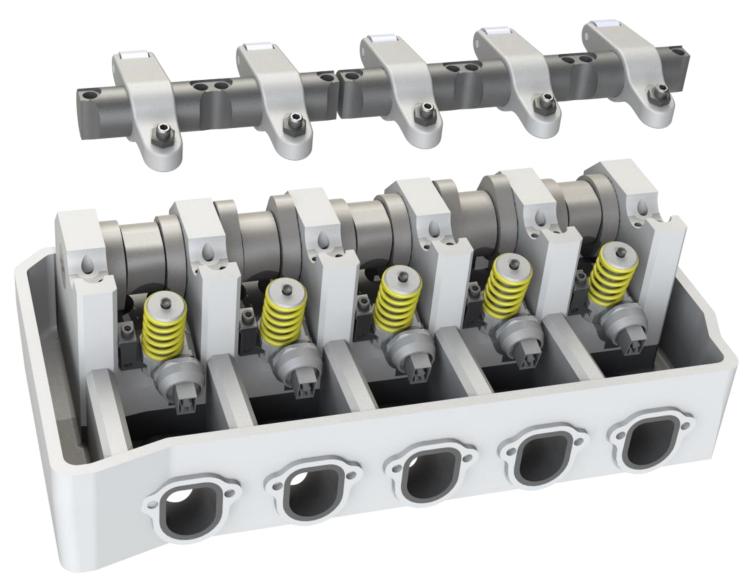
step 1: dismount screws of rocker arm shaft



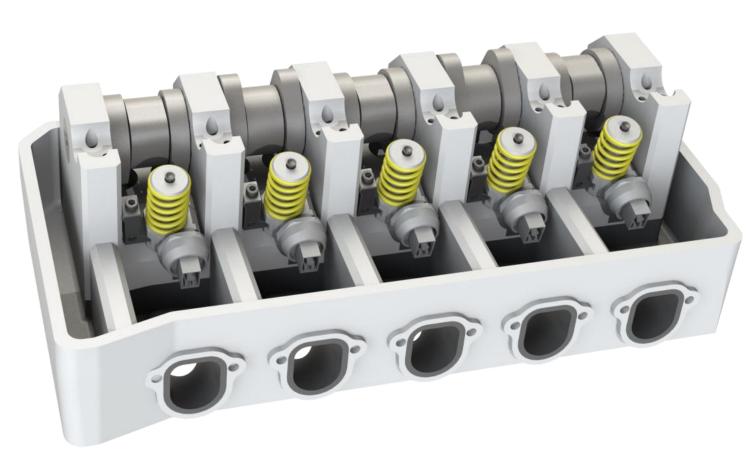
step 1: screws of rocker arm shaft dismounted



step 2: dismount rocker arm shaft



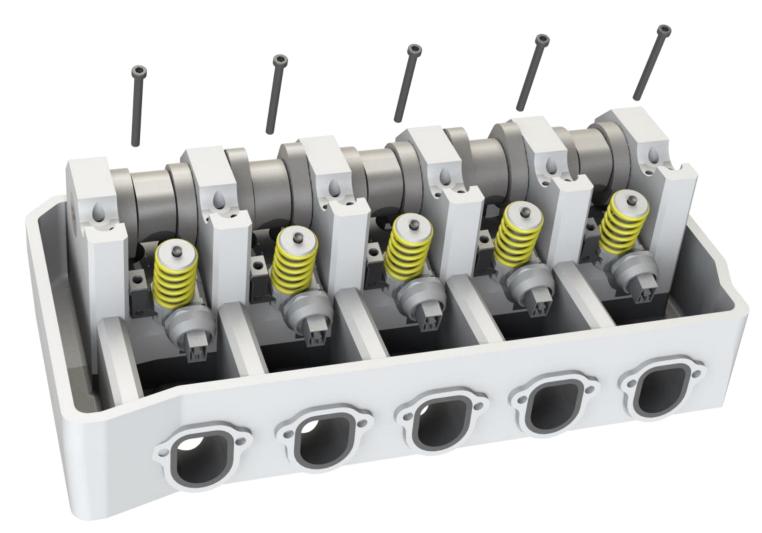
step 2: rocker arm shaft dismounted



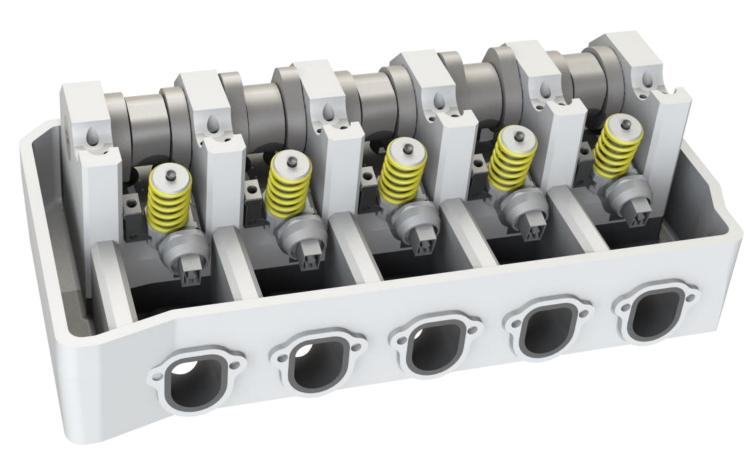
step 3: loosen injector screws



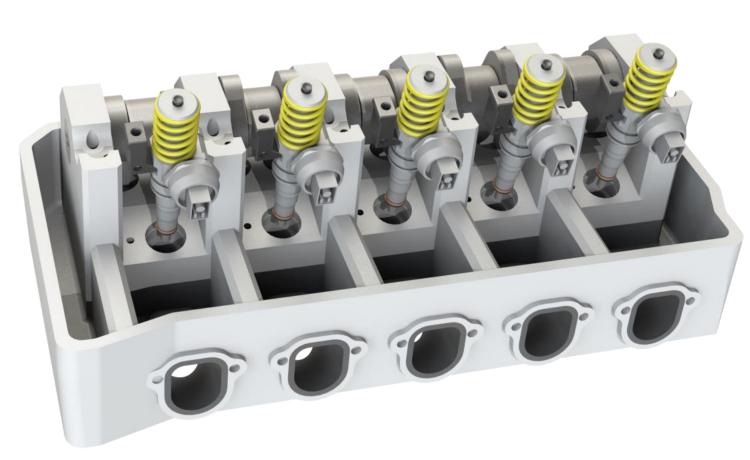
step 3: loosen injector screws

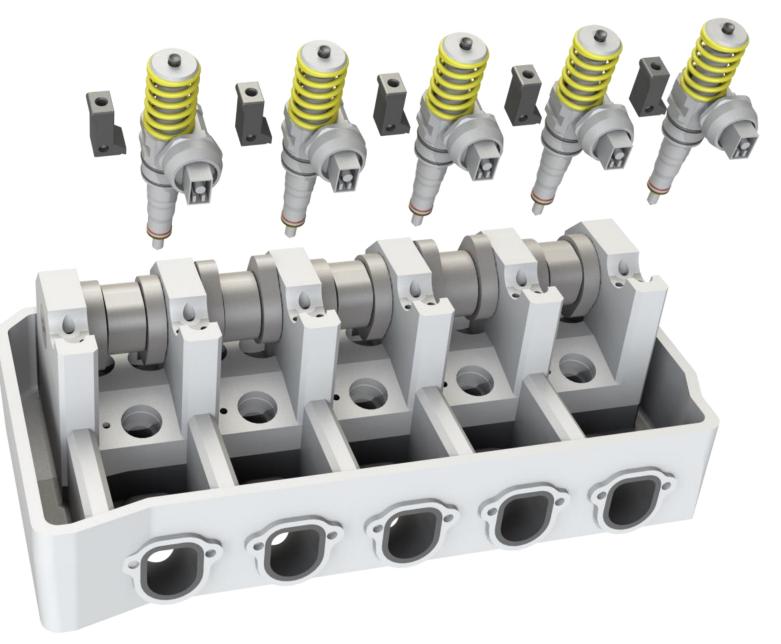


step 3: injector screws removed

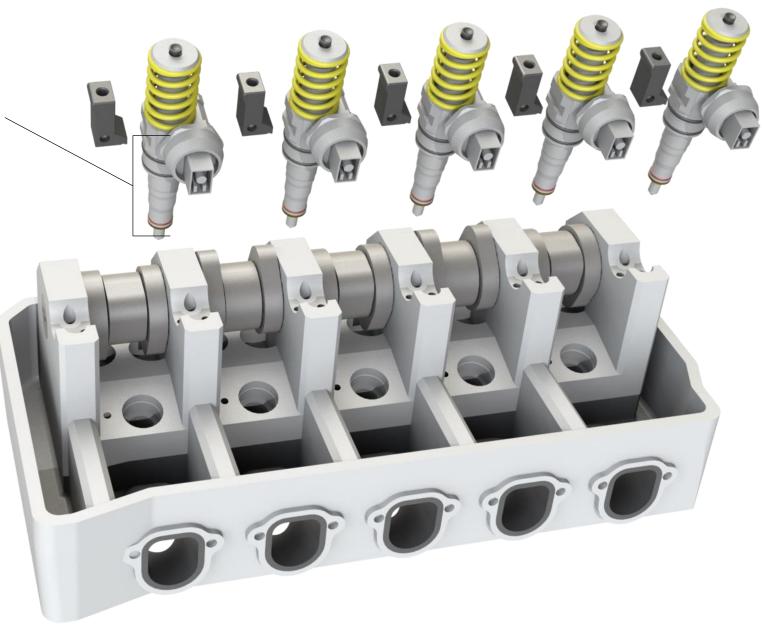


step 4: dismount injectors

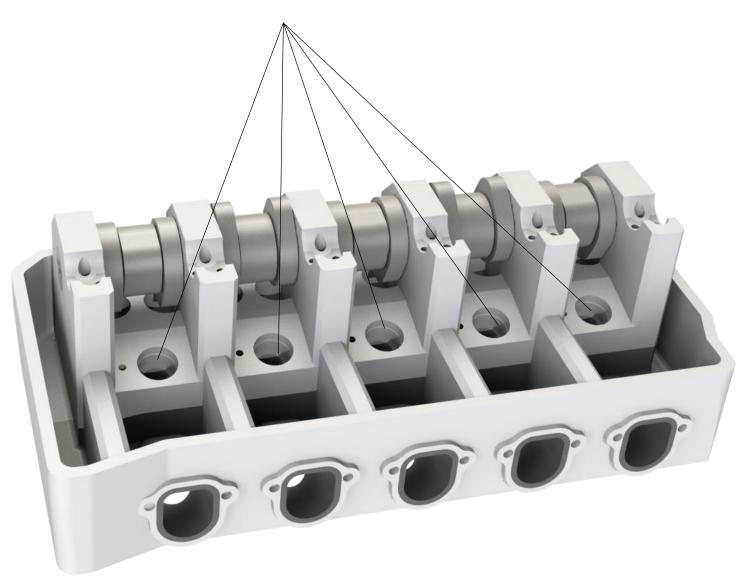




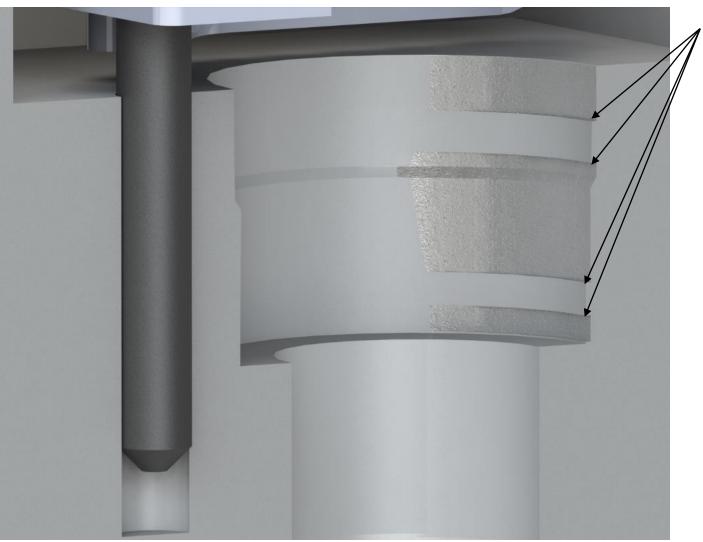
step 5: new sealing rings are required for a succesful repair. Use high quality parts only, as the sealing rings are highly stressed parts of the fuel injecting system



step 6: check exisiting damadges on the sealing surfaces



common damadge:



Sharp edges have to be removed before re-mounting the injectors – otherwise the new sealing rings will take damadge.

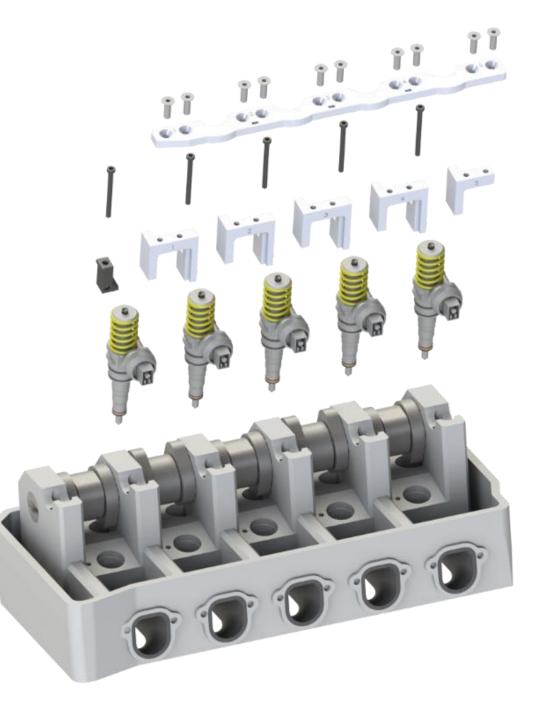
procedure:

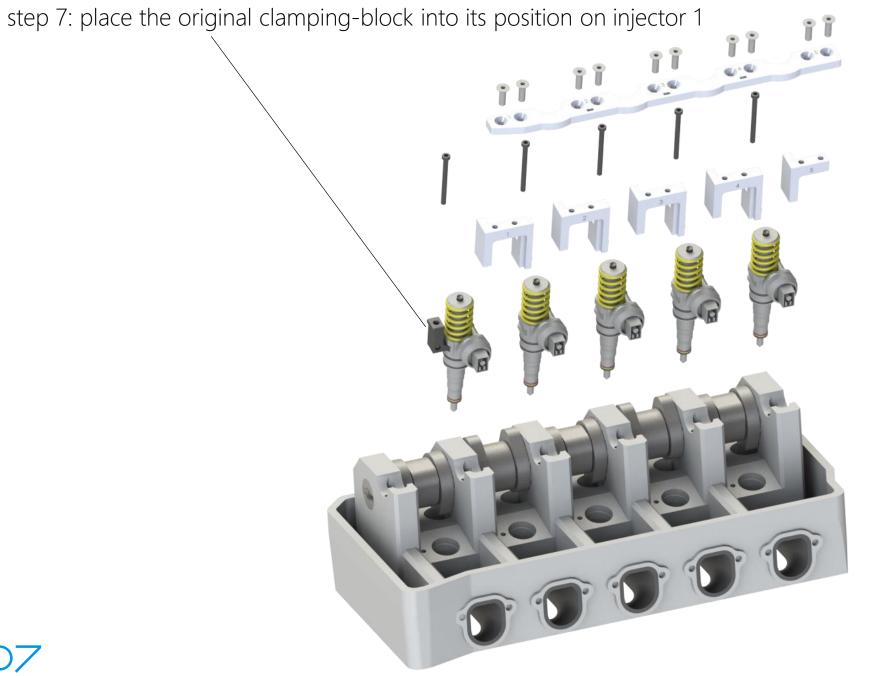
- use oil covered sandpaper, grit >800
- close deeper part of injector seat with tissue to avoid debriss falling into the combustion chamber
- pay attention to cleanliness!

WARNING: Do not grind down the visible rings of damadged surfaces completely as this area will later become the new sealing surface again. Only remove the sharp edges to avoid damadge to the seal-rings while being mounted.



overview of the injector rail set

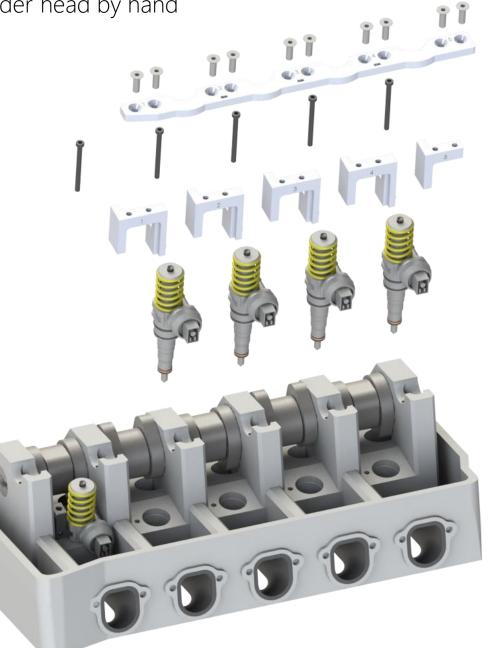




ei∩s

step 8: insert injector 1 into the cylinder head by hand

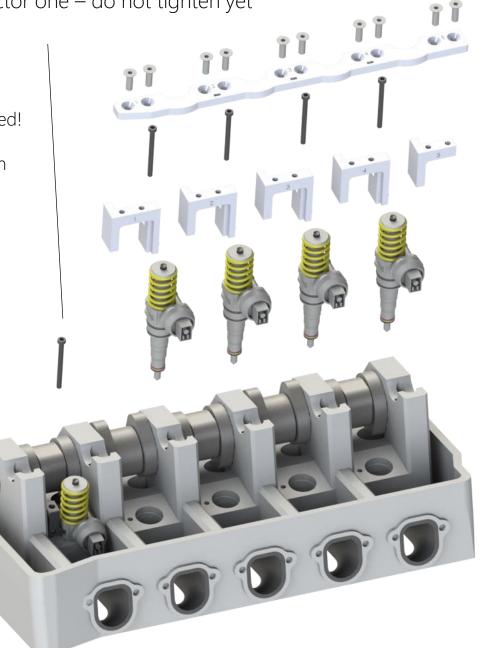
(pay attention to not damadge the sealing rings – use oil to lubricate the rings while being mounted)

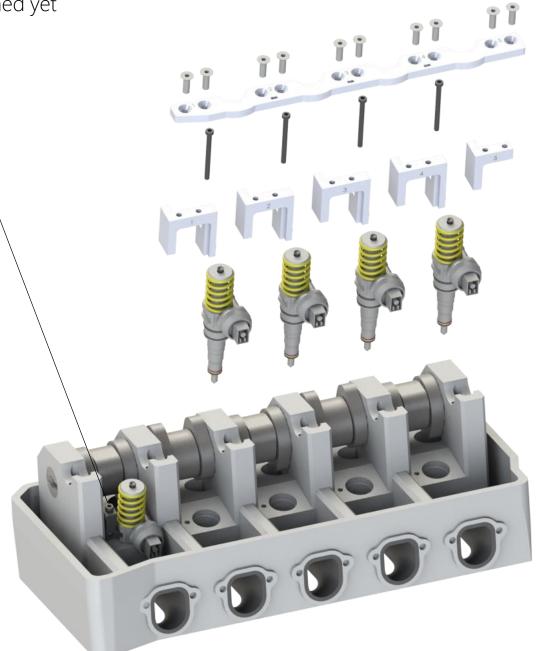


step 9: insert the expansion screw of injector one – do not tighten yet

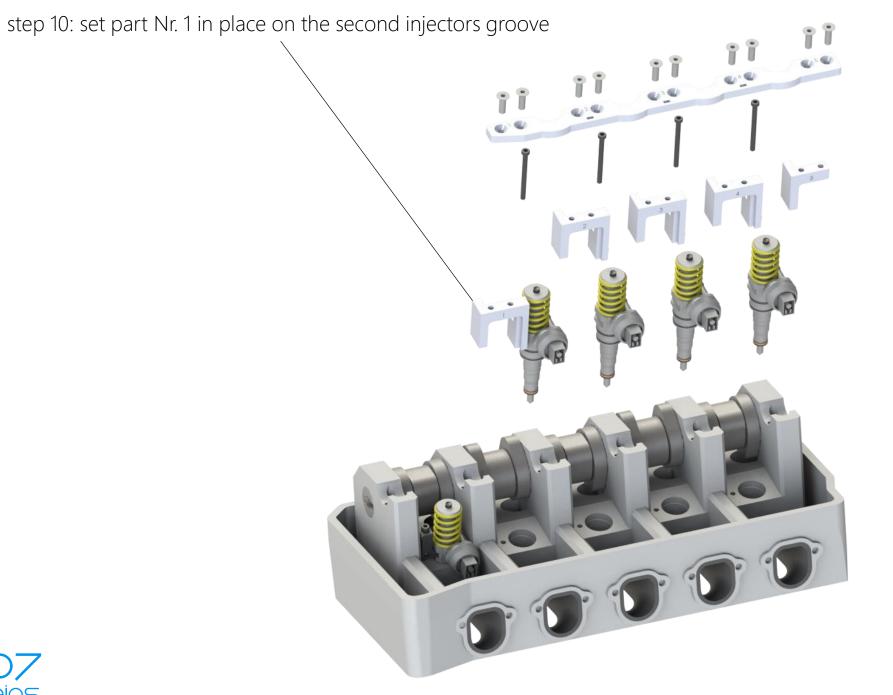
-Warning: the expansion screws have to be replaced by new ones, once they were removed!

-Only use high quality screws of the dimension M6x55mm – longer screws can lead to severe engine damadge!

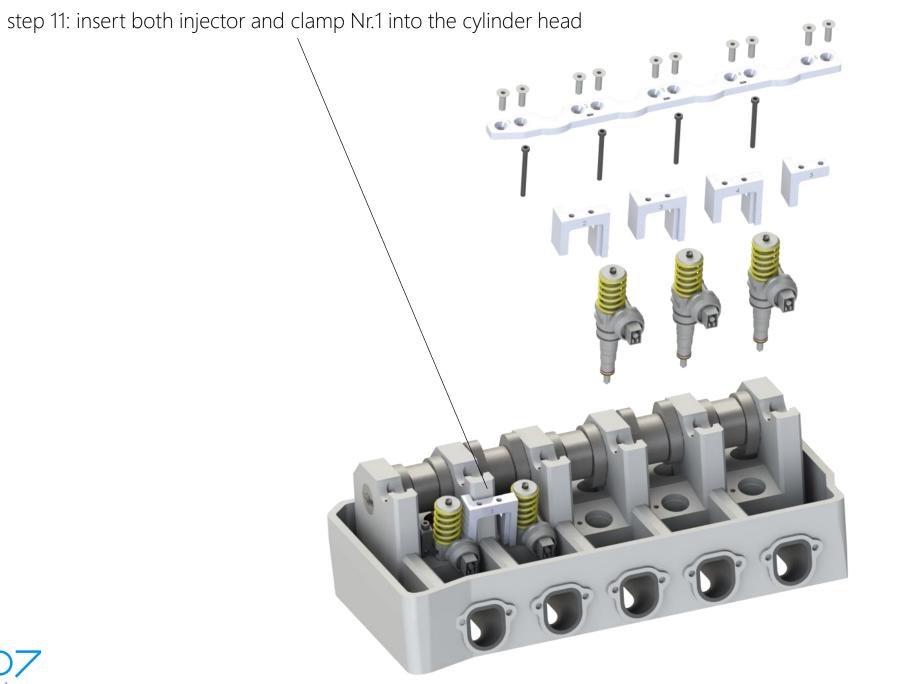




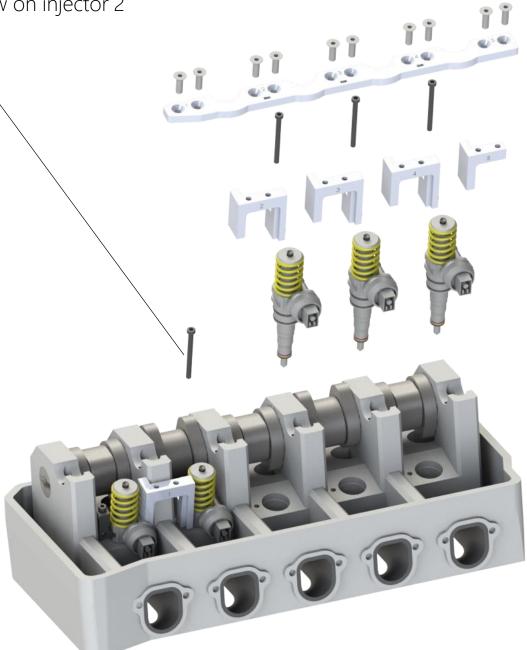
step 9: screw in place – not tightened yet



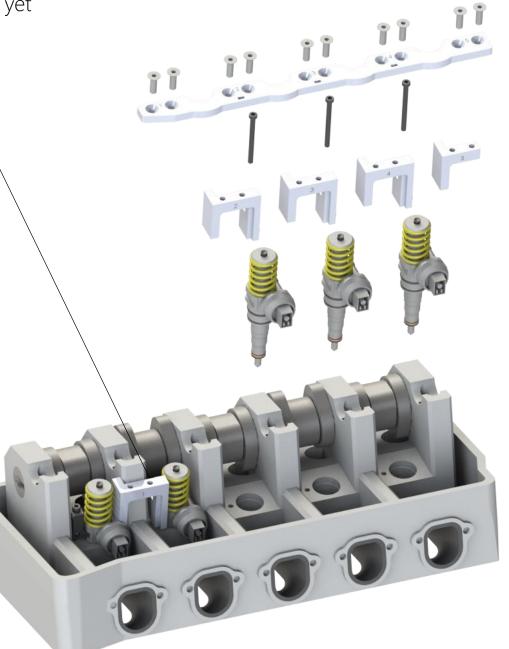
ei∩s



O∕ ei∩s

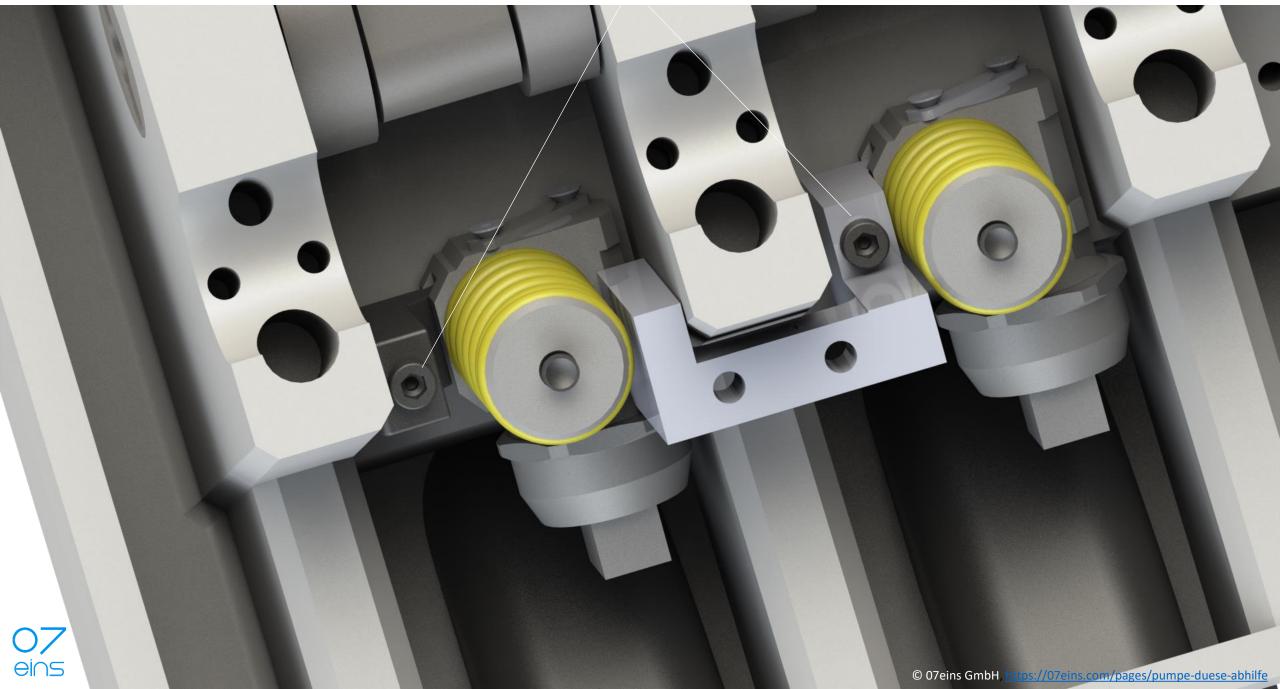


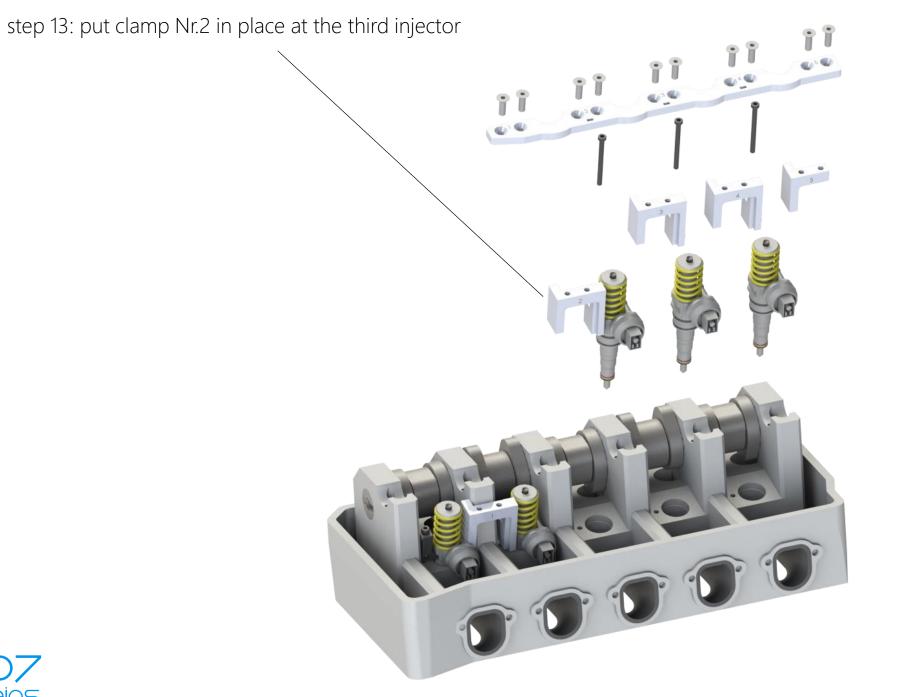
step 12: replace the expansion screw on injector 2



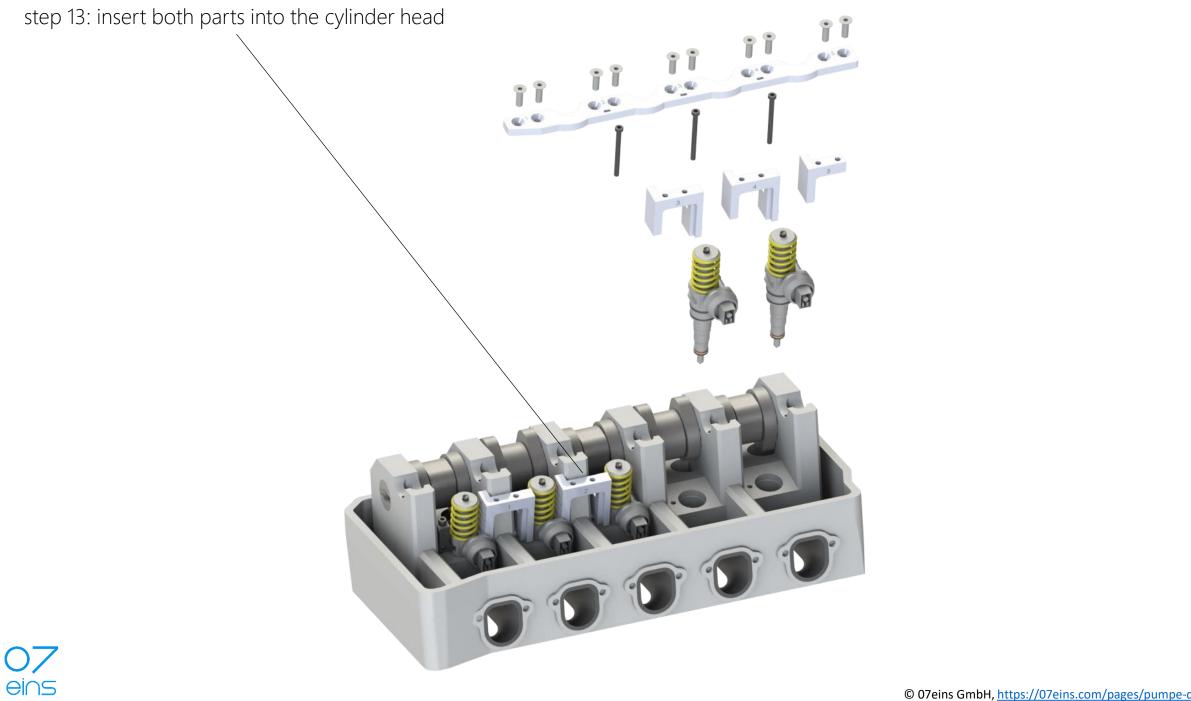
step 12: screw in place – not tightened yet

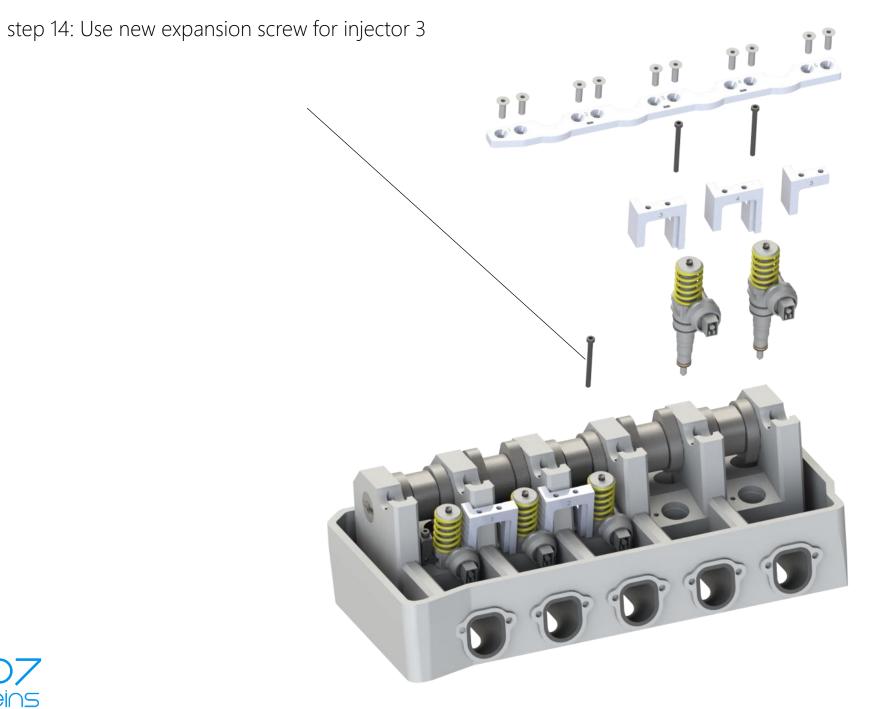
current status: injector 1 and 2 inserted, new screws mounted, not tightened yet



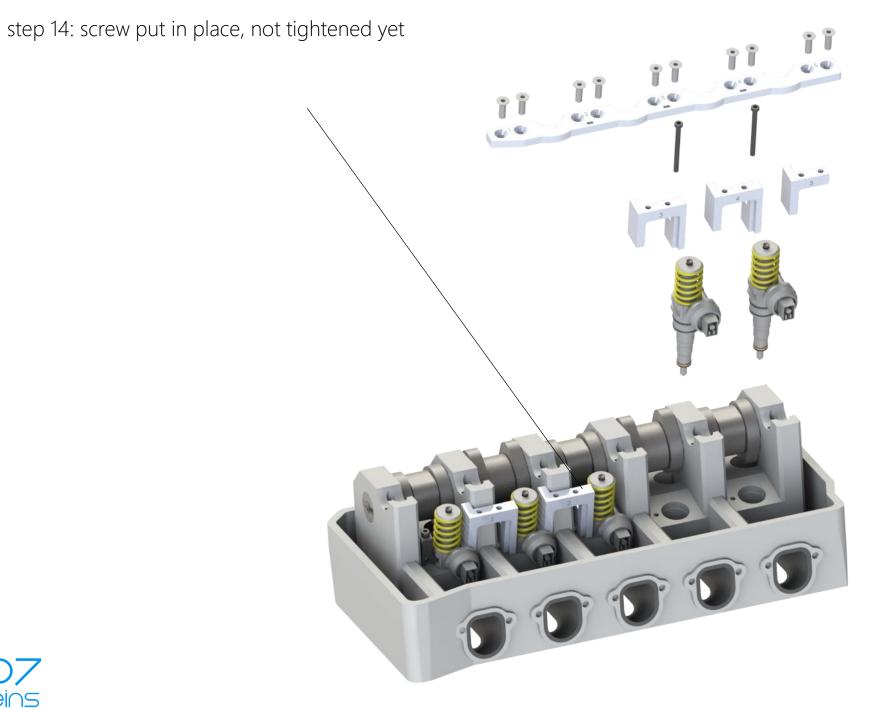


ei∩s



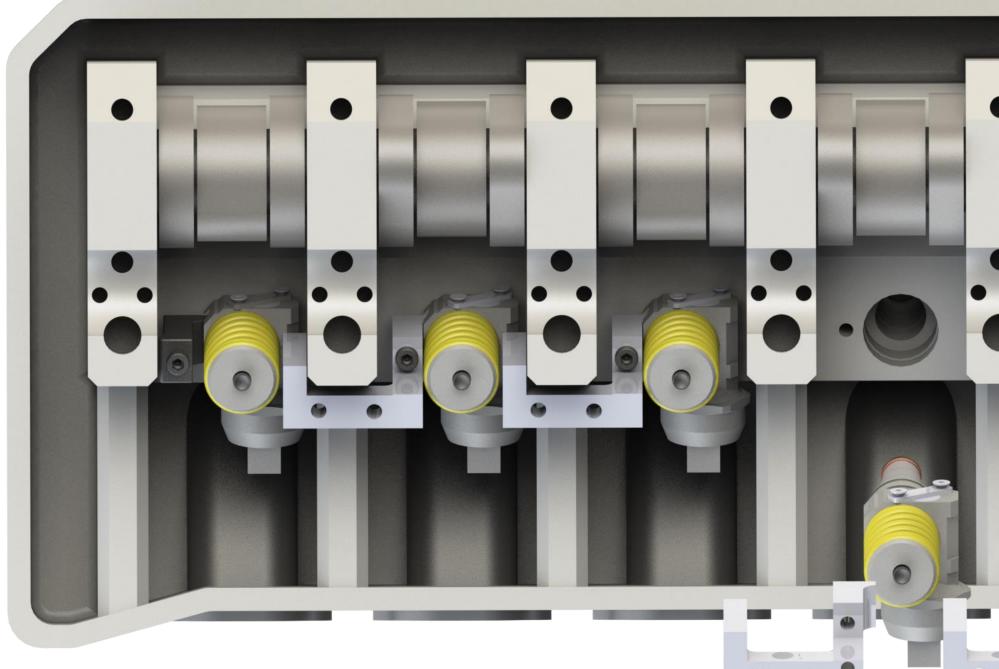


O7 ei∩s



O∕ ei∩s

current status



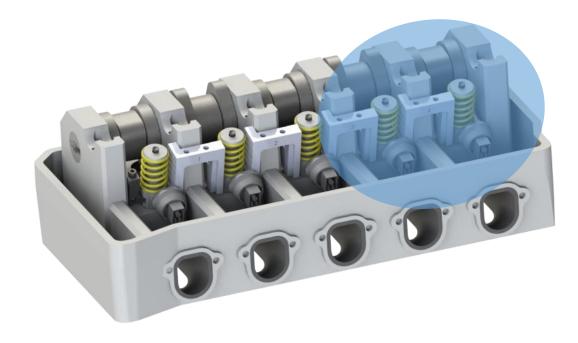
ind i

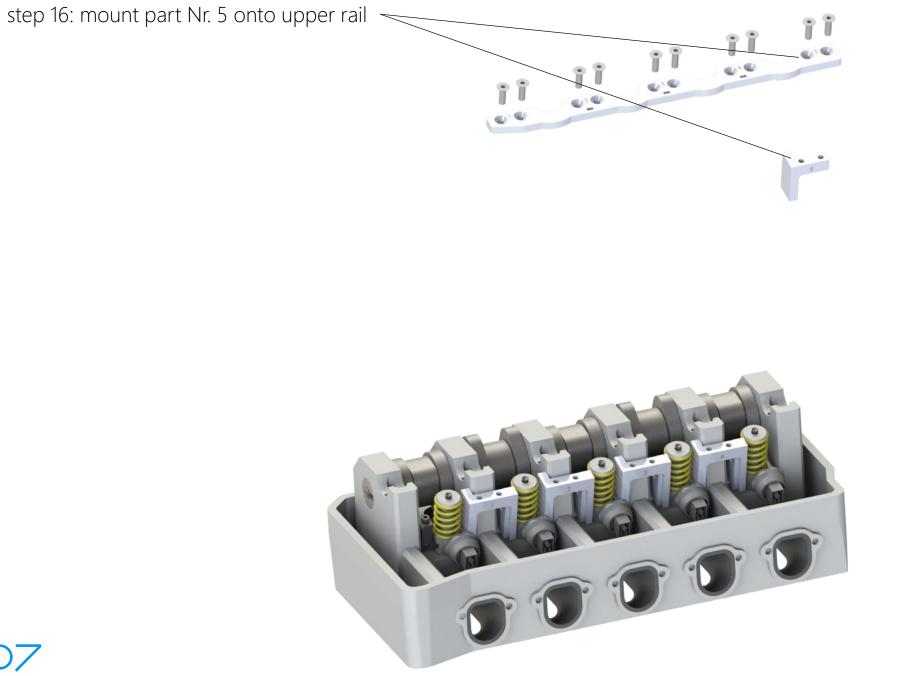
07 ei∩s

step 15: repeat procedure for cylinder 4 & 5







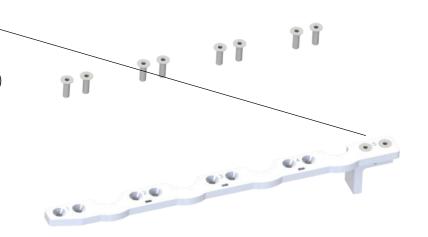


07 ei∩s

step 16: mount part Nr. 5 onto upper rail 🔍

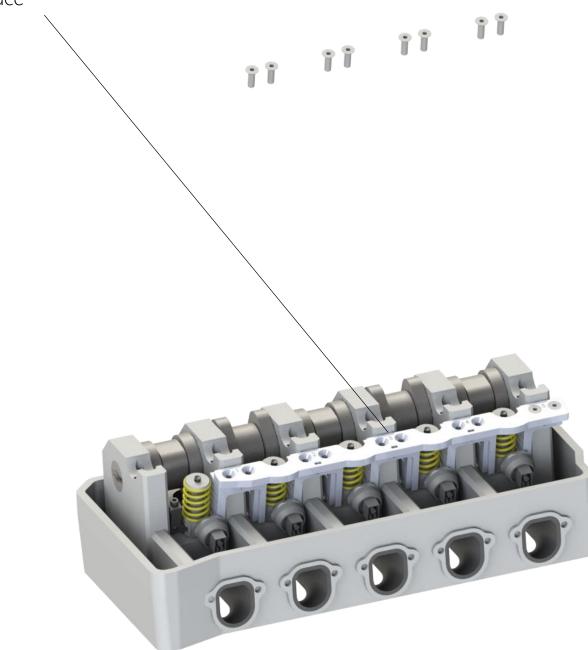
-use of screw locking glue required! (Loctite 270 or similar – temperature resistance >180°C)

- tightening torque: 20Nm





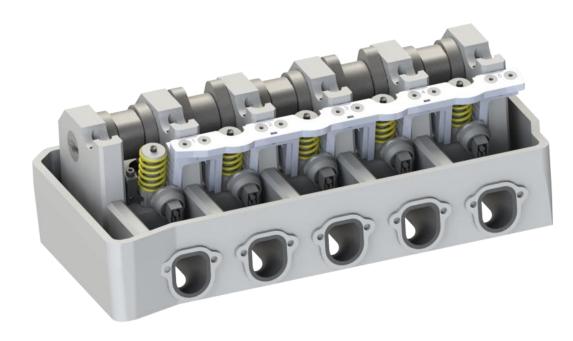




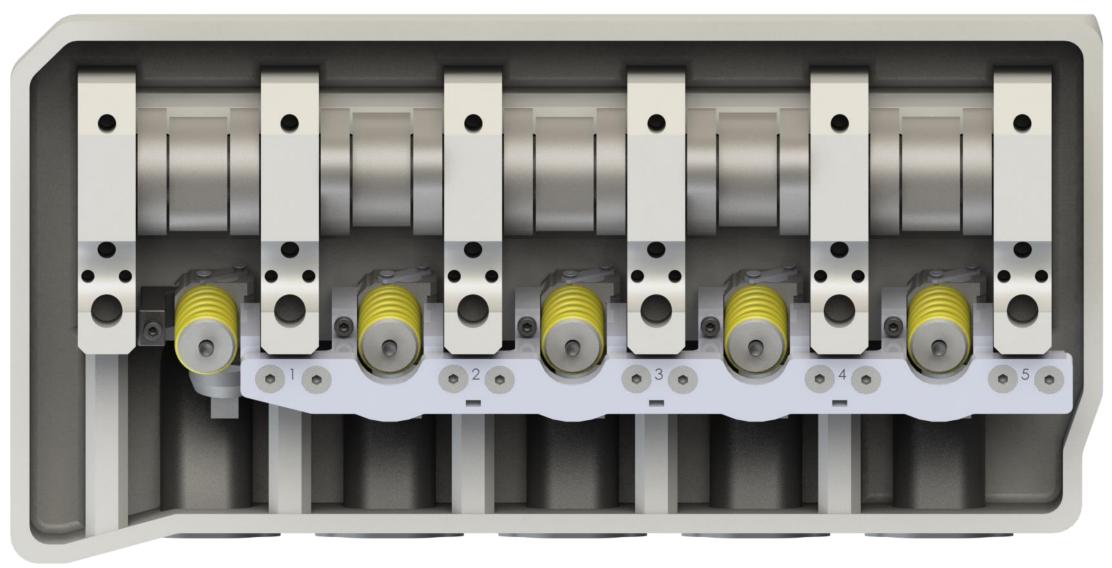
step 18: insert and tighten leftover screws

-use of screw locking glue required! (Loctite 270 or similar – temperature resistance >180°C)

- tightening torque: 20Nm

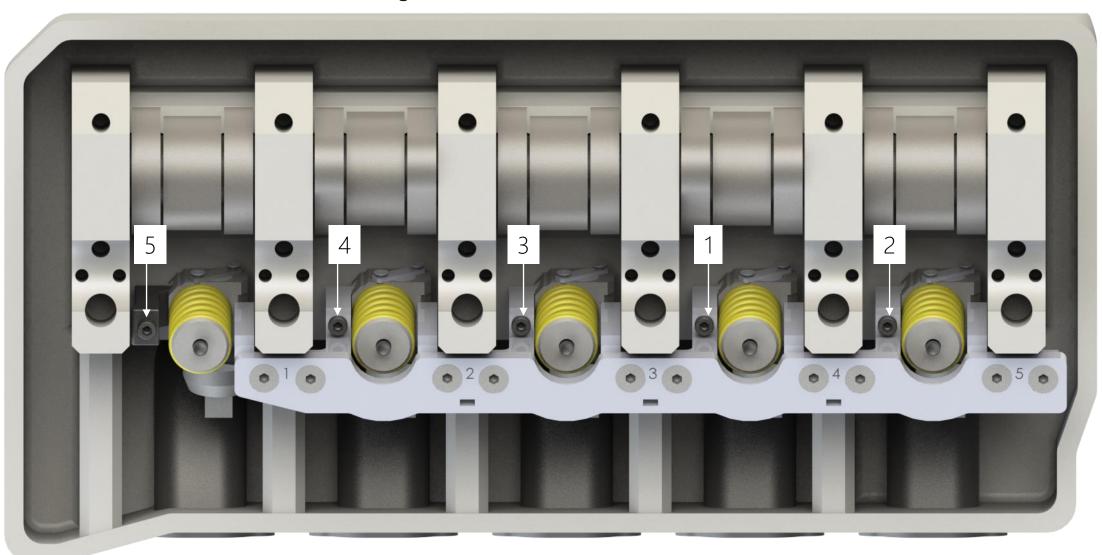


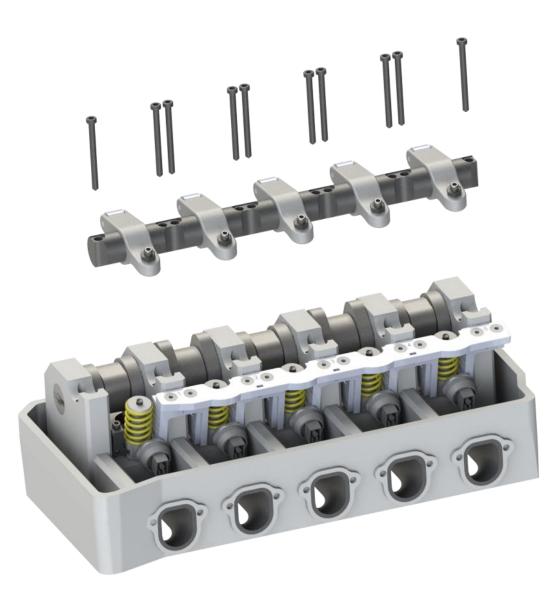
current status



step 19: tighten injektor expansion screws by torque and angle: 12 Nm + 270°

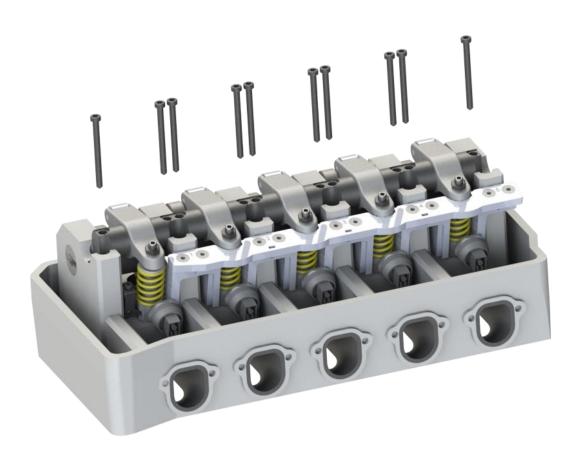
tighten in the shown order!





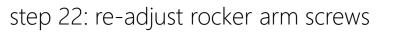


step 21: insert rocker arm expansion screws – new screws have to be used!



step 21: tighten rocker arm shaft screws by torque and angle: 20 Nm +90°



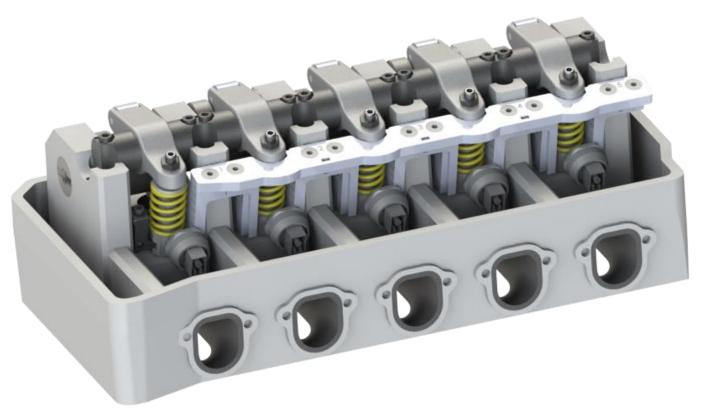


07 ei∩s



reverse preparational steps:

- re-attach injector wiring harness
- re-attach valve cover
- mount exhaust-gas-recirculation-valve on top of valve cover
- mount air intake and intake manifold
- move front and radiator to standard position



pumpe dūse abhiufe.

powered by

07 eins