



Thank you for purchasing the new 2.0T TSI Manifold Lever Arm Fix Kit from ECS Tuning, we appreciate your business!



Project Overview:

The lever arm of the intake manifold runner flaps has a tendency to fail and separate from the shaft, causing an intake runner malfunction as well as boost leaks. This may cause a check engine light as well as drastically reduced performance. Until now, the only solution to this issue was to replace the entire intake manifold assembly which is both costly, and time consuming.

We are excited to announce that the Engineering team at ECS Tuning has designed a solution for this problem that simultaneously fixes and prevents this issue, with a quick and easy installation! Our fix kit features a durable billet aluminum cap with a beautiful black anodized finish, providing years of unparalleled protection against this widespread issue.

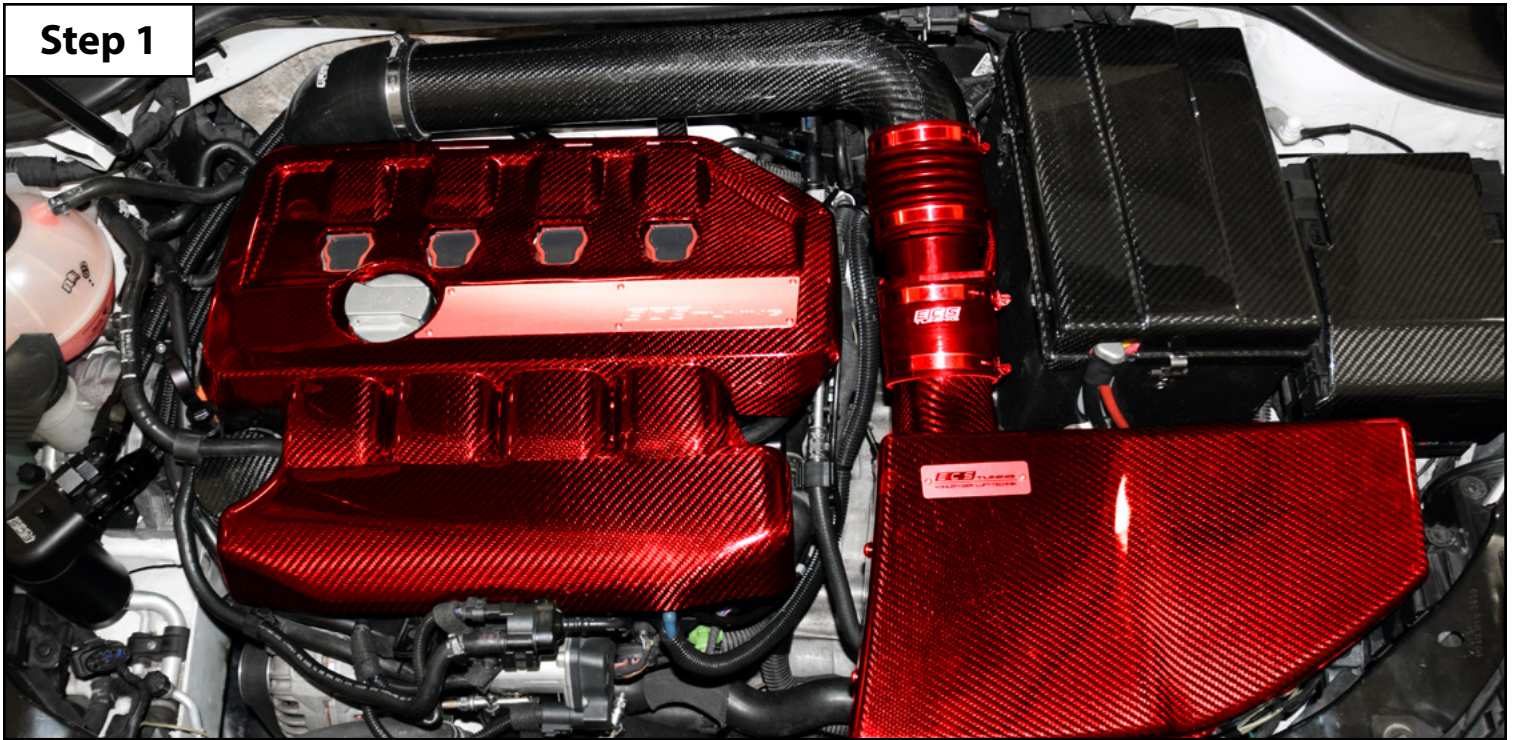
Here's a quick rundown of what we'll be doing:

- Remove the engine cover and the air intake.
- Locate the runner flap lever arm.
- Install the appropriate Teflon™ spacer and the aluminum fix cap.
- Fasten the fix cap using the three set screws and the allen key.
- Reinstall the engine cover and the air intake.

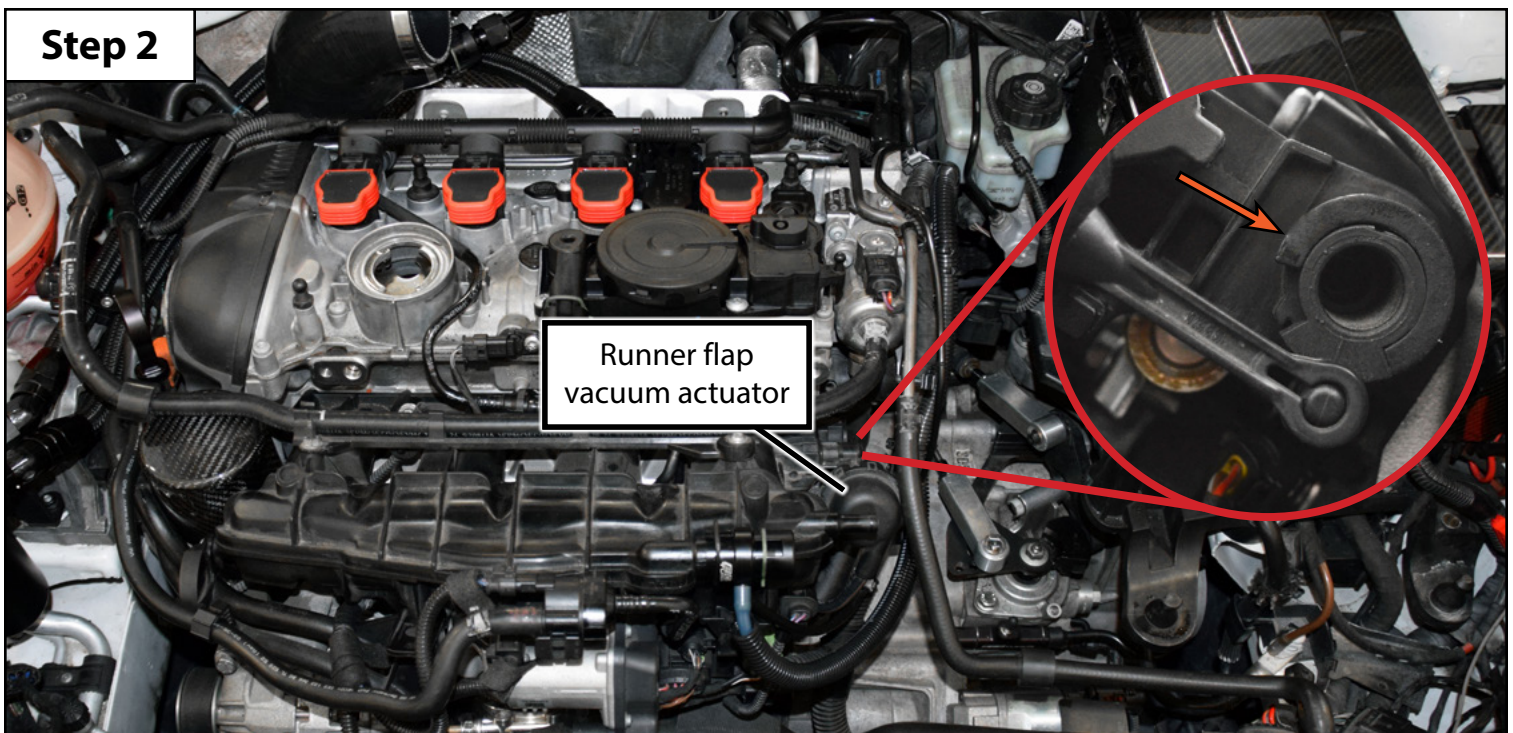
Section 1: Accessing the Lever Arm

- Step 1**
- In order to access the stock lever arm housing, you must first remove the engine cover and the air intake (highlighted in the photo below in red.)
- Step 2**
- Locate the stock plastic lever arm housing on the LH side of the intake manifold behind the runner flap vacuum actuator as shown in the photo below.
 - The new fix cap will install directly over this housing.

Step 1



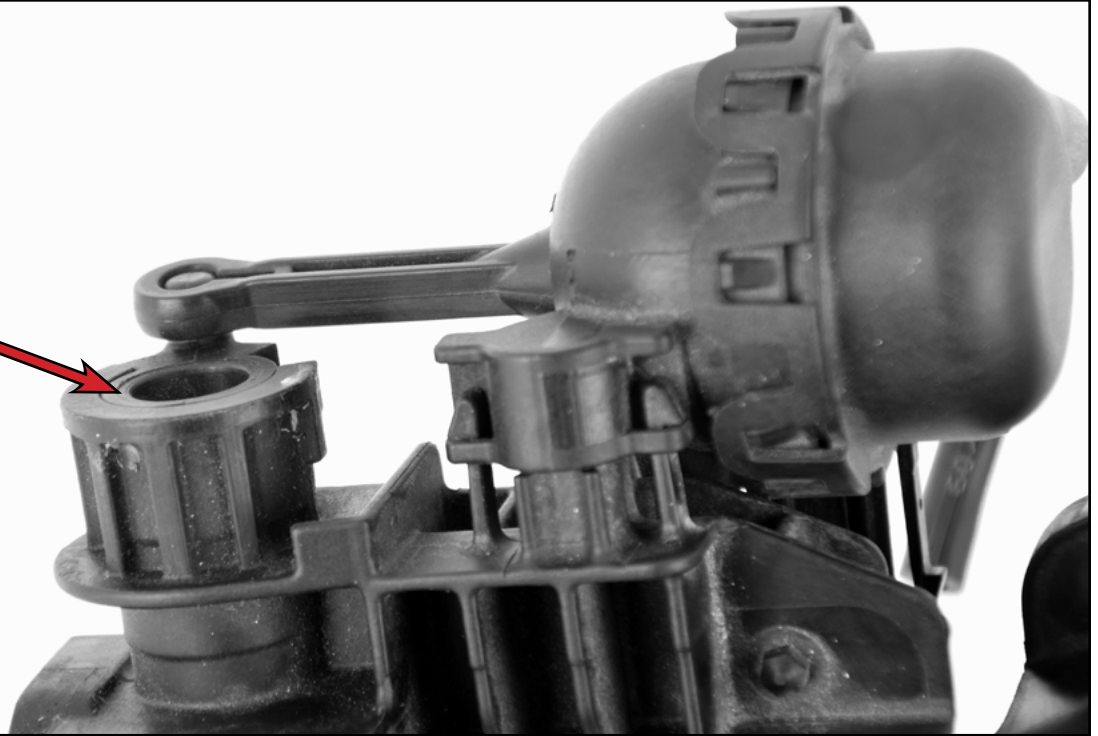
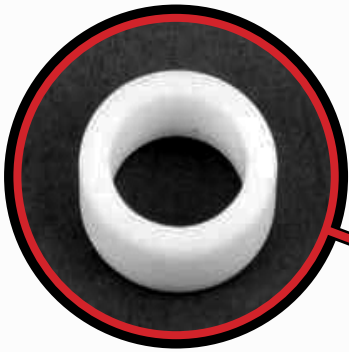
Step 2



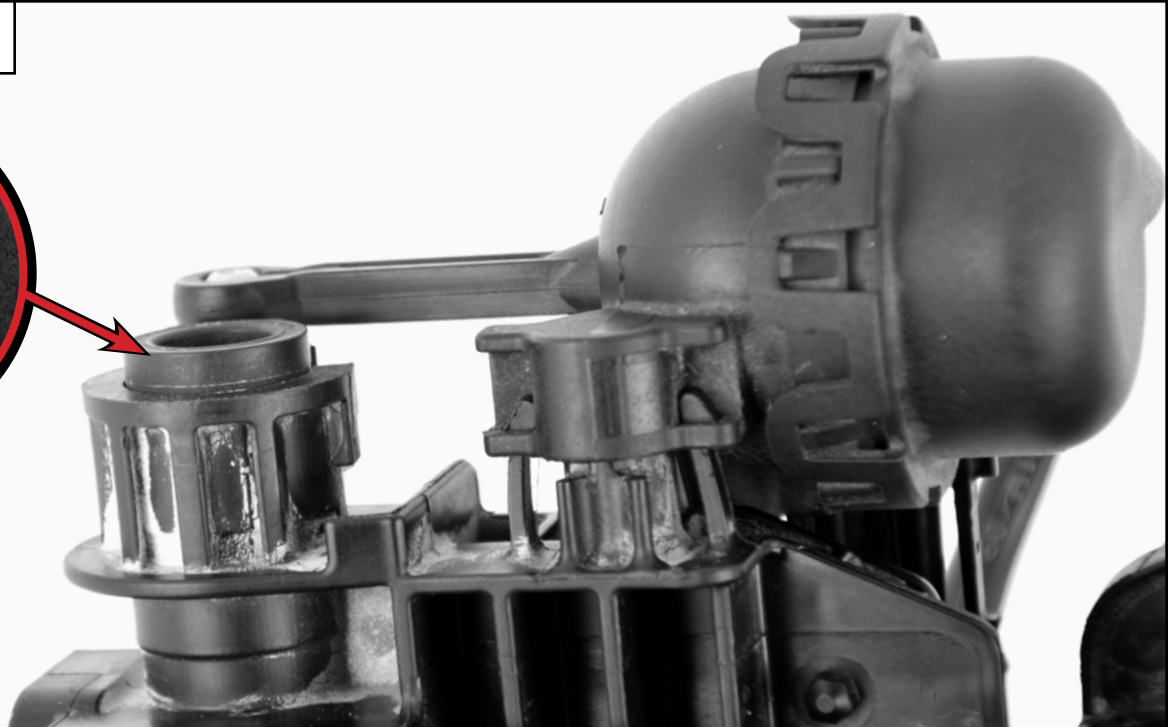
Section 2: Identifying The Intake Manifold

- Step 1**
- Your new intake manifold lever arm fix kit will include two different thickness Teflon™ spacers, but only one of them will be used during the installation. The intake manifolds have been through several revisions over the years, so you will need to identify which style of manifold your engine is equipped with.
 - Early production intake manifolds feature a lever arm which sits flush with the housing, this style requires the thicker Teflon™ spacer.
 - Late production manifolds feature a lever arm which protrudes from the housing, this style requires the thinner Teflon™ spacer.

Early Manifolds

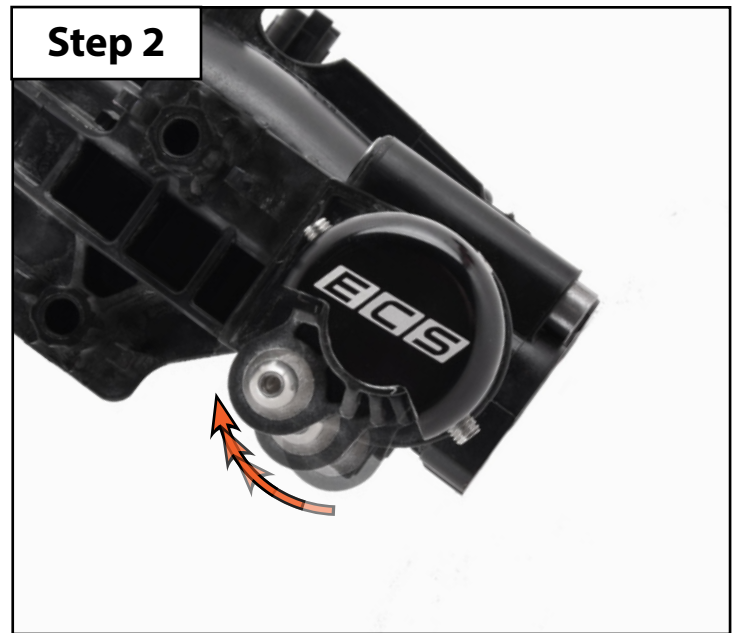


Later Manifolds



Section 2: Installing the Fix Kit

- Step 1**
- Choose the appropriate Teflon™ spacer and place it into the fix cap as shown in the photo below.
 - This will hold the lever arm into place, maintaining the seal while still allowing the arm to rotate freely.
- Step 2**
- Place the fix cap over the lever arm housing, with the cut out portion positioned to allow the lever arm to rotate freely.
 - Note that the actuator rod is not shown in the installation photo below.
- Step 3**
- Apply a single drop of the provided blue threadlocker to the screws to prevent them from loosening over time.
 - Tighten the three screws using the provided allen key as shown in the photo below.
 - Tighten the screws only until contact is made. **DO NOT OVERTIGHTEN.**
 - When installing the screws on the vehicle space will be very limited, you might only be able to turn the screws ¼ turn at a time until they are properly tightened.

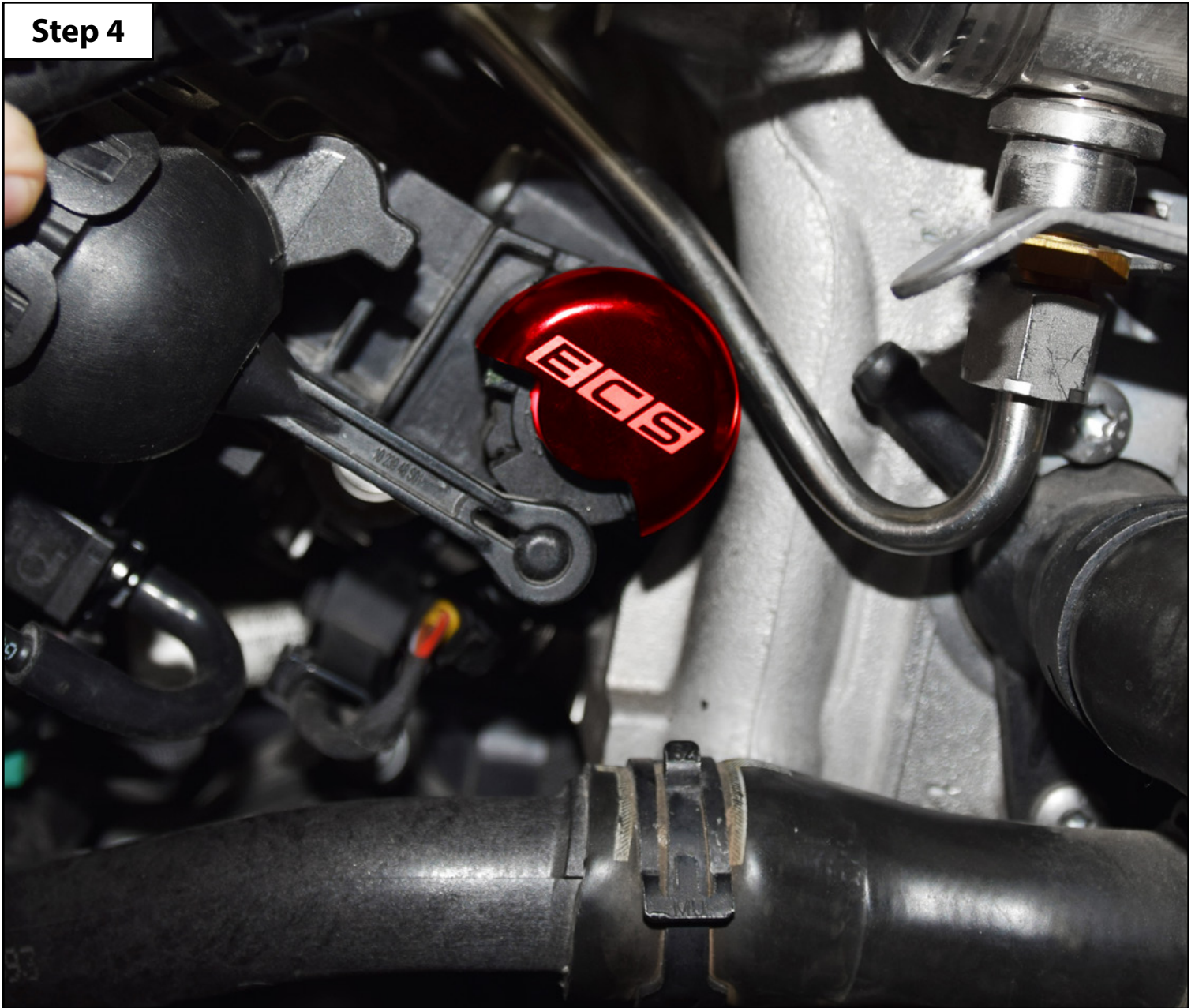


Section 2: Installing the Fix Kit

Step 4

- Before reinstalling the engine cover and air intake, ensure that the fix cap is properly secured and oriented as seen in the photo below (highlighted in red.)
- Reinstall the engine cover and the air intake.

Step 4



Your installation is complete!

Enjoy!