



instructables

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## **Audi VW 2.0 TFSI T FSI Inlet Intake Manifold Swirl Flap Runner Delete Repair Kit Plate Blanks Install Instruction Guide**



by x8rltd

Runner flaps fitted within the inlet manifold on Audi and VW 2.0 TFSI vehicles restrict airflow limiting performance. Our kit allows you to completely remove this system, vastly improving airflow; allowing better tuning and preventing failure of the runner flap components.

**The Problem**

The runner flaps within the inlet manifold limit airflow and performance.

The factory fitted inlet manifolds on EA113 engines have runner flaps fitted within. Much like throttle body flaps these open and close to adjust airflow. These ultimately restrict airflow, even when fully open airflow is restricted. This becomes an issue the more the vehicle is tuned. Carbon can also build up on these moving parts providing more restriction and can in some cases causes failure of the moving parts within the manifold.

**Symptoms of the fault**

If the runner flaps are operating correctly there will likely be no symptoms of a fault. The benefits will only be realised when the runners are removed; improving airflow. If the runners are faulty or carbon build ups have formed this can affect vehicle performance.

**Vehicles affected and compatibility**

2.0T FSI EA113 engines:

Audi TT MK2 2007+ (From 57 plate) 2.0T FSI

**You will receive**

X4 Left hand bearing block blanks

X4 Right hand bearing block blanks

Audi TTS MK2 2008+ 2.0T FSI

Audi A3 MK1 2005-2013 2.0T FSI

Audi A4 B7 2005-2008 (From 55 plate) 2.0T FSI (FWD)

Audi A4 B7 2005-2008 (From 55 plate) 2.0T FSI (Quattro)

VW Passat B6 2006-2011 2.0T FSI

VW Jetta MK5 2005-2010 (From 55 plate) 2.0T FSI

VW Golf/GTI MK5 2006-2009 2.0T FSI

VW R Models MK6 R 2011+ 2.0T FSI

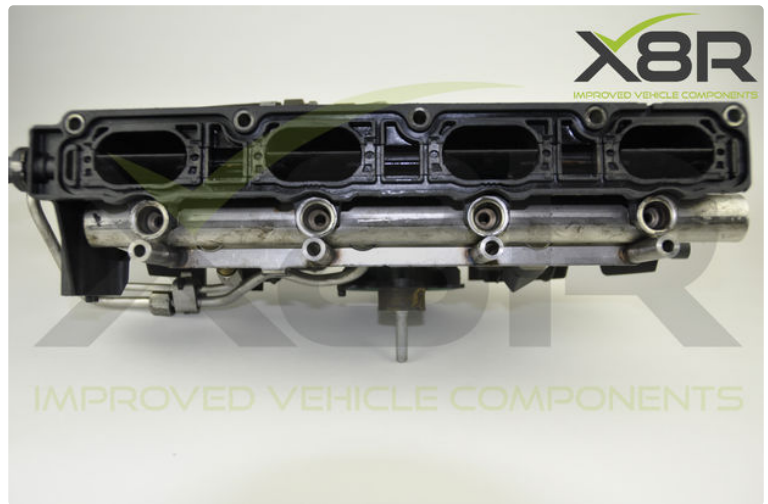
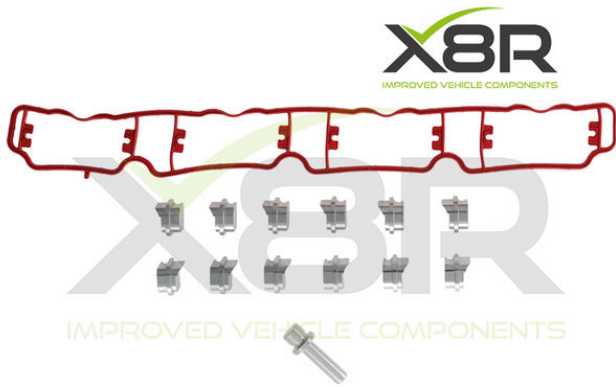
**Our solution**

Remove the runner flaps using our kit to improve airflow in the inlet manifold.

Remove the runner flaps completely from the manifold using our kit. Our precision engineered CNC billet aluminium parts allow you to remove the runner flaps. Our parts replace the runner bearing blocks and the crank arm; sealing the manifold and vastly improving airflow. Ideal for stock vehicles to improve airflow and prevent carbon build up- even better for tuned engines. Customers with tuned engines have noted quicker throttle response, less turbo lag, improved torque and BHP gains when deleting the runner flaps.

1X Crank arm blank

1X Manifold gasket



[https://www.youtube.com/watch?v=B\\_SkAxJx5wQ](https://www.youtube.com/watch?v=B_SkAxJx5wQ)

### Step 1: Remove Ball Joint Crank Arm

Locate the ball joint crank arm on the end of the manifold.

Using a small flat bladed screwdriver lever the retaining clip out of position and save for reinstall.

Using a pair of grips pull the ball joint crank arm out of

the manifold.

Please note the seal on the crank arm in the images. If this comes out with the crank arm please remove and reinsert in to the manifold, this is important to achieve a seal when blanking off.





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## Step 2: Insert Our Crank Arm Blank

Insert our blank in to the hole left by the crank arm.

Refit retaining clip (check image for orientation) this will secure the blank in position.

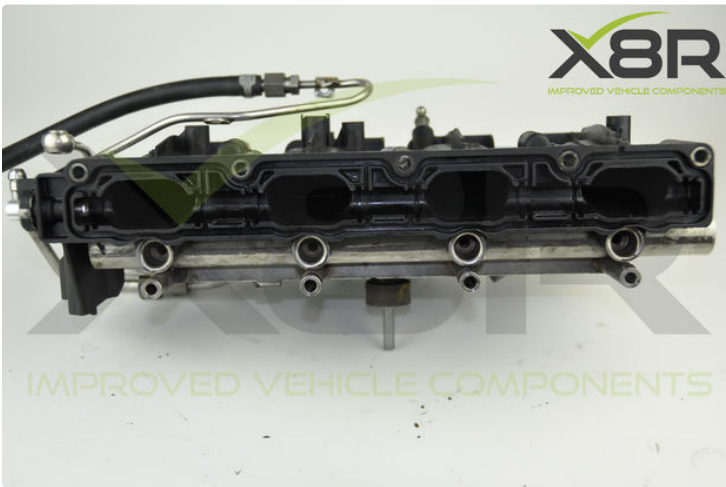
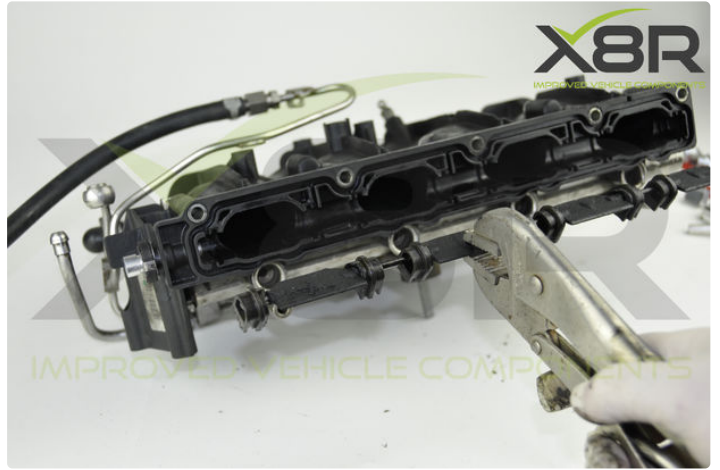
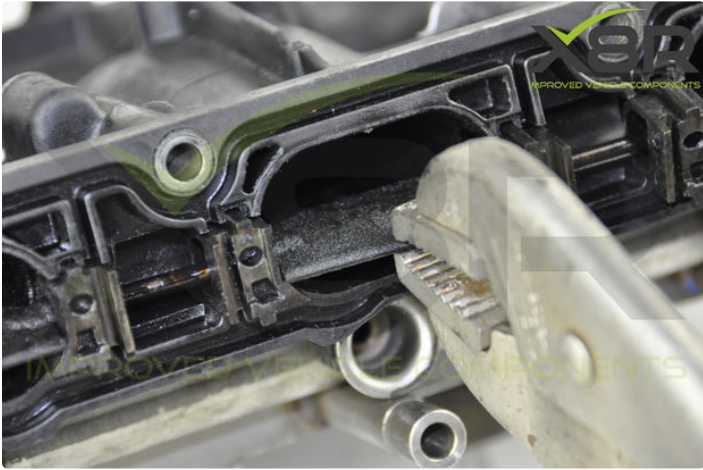
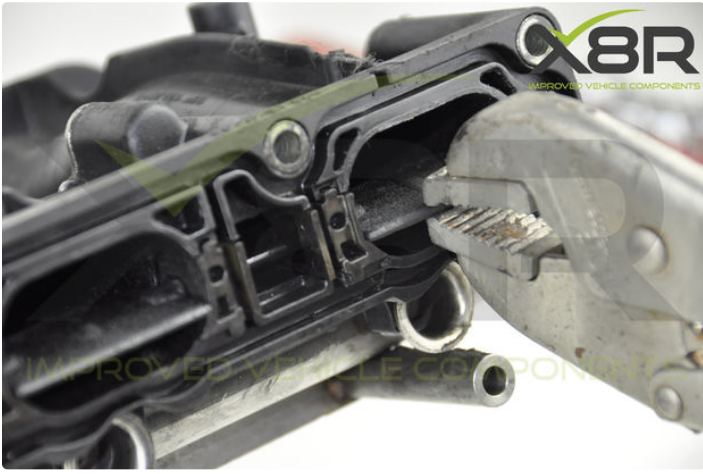


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## Step 3: Remove the Runner Flaps and Clean Manifold

Using a pair of grips, grip the runner flaps and pull away from the manifold. Pull each flap gently until the complete assembly can be pulled loose from the manifold.

At this point it is a good idea to clean any carbon deposits from the manifold. Particularly where the gasket sits and where the bearing block blanks locate.

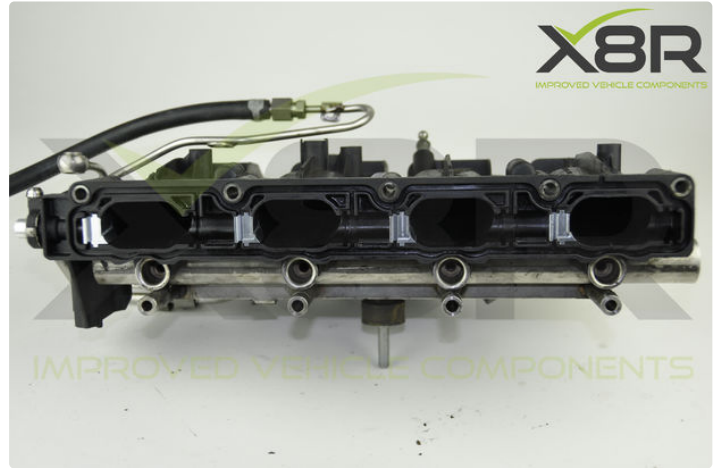


## Step 4: Insert Our Bearing Block Blanks

Insert our blanks in place of the bearing blocks from the runner flaps. These simply push in to position.

The blanks are handed left and right, insert 4x left hand and 4x right hand blanks.

Press the blanks firmly in to position to sit flush with the manifold, if they do not fully engage clean any carbon deposits and push back in to position.



## Step 5: Fit Our Replacement Manifold Gasket

Again ensuring the manifold is clean and free of deposits; insert our new gasket in to the groove on the manifold.

This completes the repair. If you need any further guidance on this install or would like to purchase the parts shown please call us on +44 01843 446643 or email us at [sales@x8r.co.uk](mailto:sales@x8r.co.uk).

Please also check out our instruction guide on

YouTube.

[www.x8r.co.uk](http://www.x8r.co.uk) Installation is carried out at installers risk, if unsure please contact us or a professional, X8R Ltd cannot be held responsible for any adverse result of installing this product or any injuries caused by install, if in doubt ask a professional. All images and texts are copyright X8R Ltd 2017.

