



van Aaken SmartBox™ Installation Instructions

Vehicle: VW Golf PD
Engine: 1.9 TDi 100 Bhp
Year: 2004-2006

Our Website, www.vanaaken.com, has further information on all of our *new* products.

Every effort has been made to ensure that these installation instructions are accurate and complete. If during installation of your van Aaken SmartBox™ you experience any difficulty please contact your supplier or van Aaken Developments directly, stating where the unit was purchased. van Aaken Developments contact details are at the bottom of every page.

The van Aaken SmartBox™

The van Aaken SmartBox™ accurately alters fuel delivery, with reference to engine speed and load, giving an improvement in power, torque and throttle response of the vehicle.

Kit Contents

- van Aaken SmartBox™
- Plug-in wiring loom
- Self-adhesive Velcro strips



Installation – A quick explanation

Installing the van Aaken SmartBox™ is a very simple task that should take less than 15 minutes. Do not be put off by the length of the explanation on the following pages. The steps set out are to ensure ease of fitting and to help avoid accidental interference with other components.

To fit the van Aaken SmartBox™, all you have to do is unplug one plug on the vehicle and then plug the van Aaken SmartBox loom in between the disconnected plug.

1) Before You Start

1. Switch off engine and ignition.
 2. Apply parking brake and select neutral or park.
 3. Remove ignition key from the ignition switch.
- All references to locations on the vehicle are made as though sitting in the driver's seat, facing forward!

There are two main points through which the van Aaken SmartBox™ connects to the vehicle, all of which can be found on the supplied plug-in wiring loom:

- A pair of large plugs

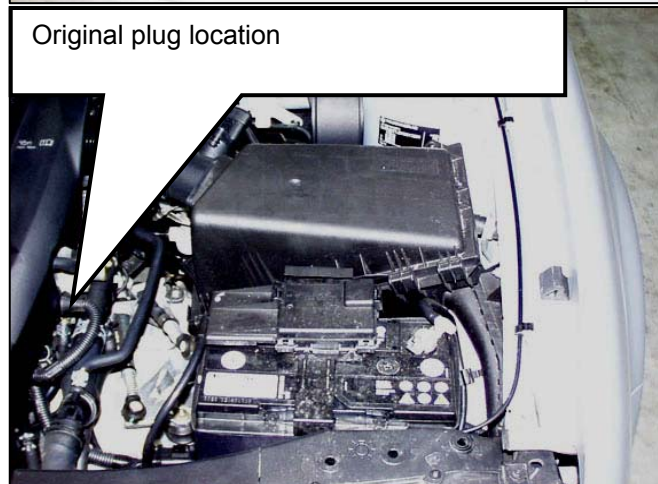
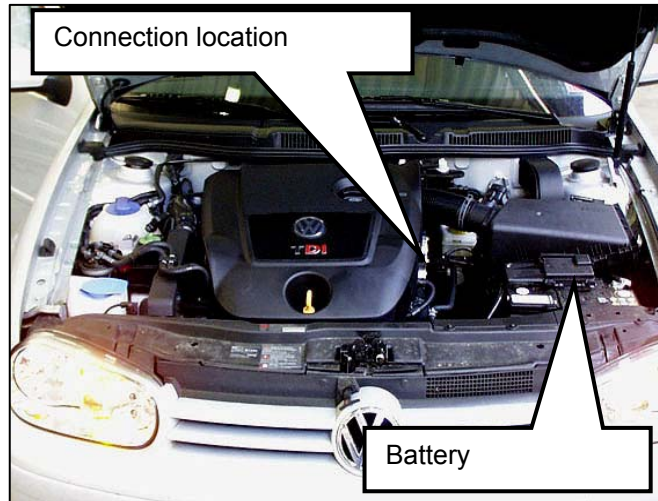
2) Locate connection point

The image on the right is an overview of a VW Golf engine bay.

This Passat has an identical engine to the Golf except you will find the engine is mounted 90° anti clockwise to the images shown.

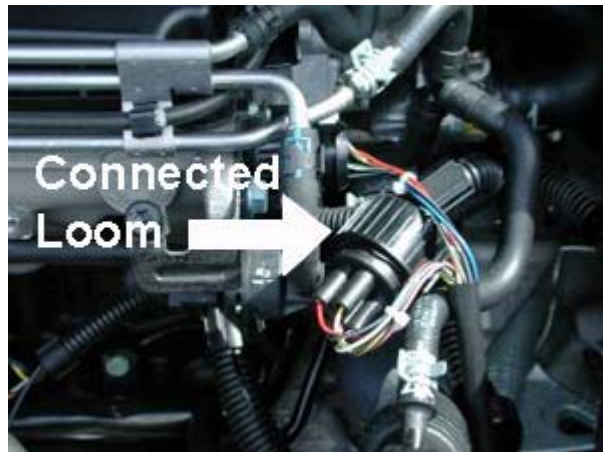
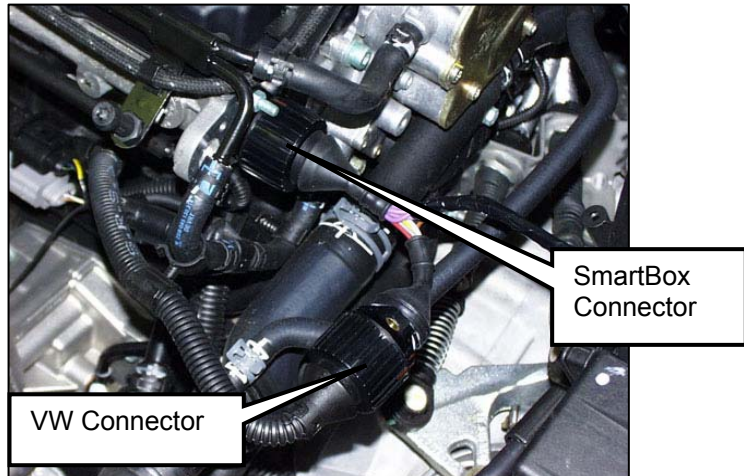
First you must unplug the round connector from the side of the cylinder head. On the Passat this can be found at the back of the engine bay, nearest the bulkhead.

To remove the connector a slight twist is required.



3) Connecting the SmartBox

Once the original loom has been disconnected, insert the vAD SmartBox connectors between the original plugs.



4) Fitting the van Aaken SmartBox™ loom

Connect the van Aaken SmartBox™ loom between the existing vehicle plugs as shown. Ensure that the plugs click firmly into position.

Attached to the van Aaken SmartBox™ are one red and one black wire.

The red wire should be connected to the positive terminal of the vehicle battery. The black wire should be attached to the negative terminal, and in this respect acts as the earth wire for the van Aaken SmartBox™.

5) Mounting the Unit

The unit may be mounted anywhere within the engine bay provided that the loom will reach and that the unit remains reasonably protected from heat. The unit will mount easily within the existing protective battery housing. Remove the top cover of this housing by simultaneously pressing the release button on each side and lifting.

There is a space to the side of the battery into which the unit will comfortably fit - use the supplied self adhesive Velcro to stick the unit to the side of the battery and tuck any extra loom wire into the same space. Replace the protective battery cover ensuring the van Aaken SmartBox™ loom is fed out at the bottom.

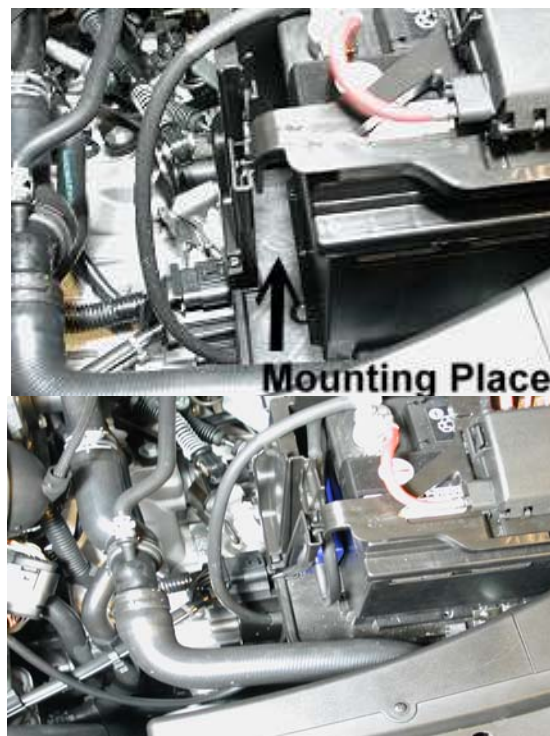


6)

Ensure that the van Aaken SmartBox™ loom will not come into contact with any moving parts or sharp edges. Secure the loom using a cable tie if necessary.

Check all connections.

Replace the main engine cover (if removed) and secure.



7) After Fitting and Before Starting the Vehicle

Please check :

- All connections are firmly connected
- All wiring is adequately secured so as not to come into contact with sharp edges or moving parts.
- The van Aaken SmartBox™ is securely mounted.
- No tools have been left in the engine bay.

van Aaken SmartBox™ INSTALLATION IS NOW COMPLETE

Start the vehicle in the usual manner

You are now ready to experience van Aaken SmartBox power!

IN THE UNLIKELY EVENT THAT THE VEHICLE WILL NOT START

- 1 Check all of the plug-in connections to make sure they are pushed all the way home.
- 2 Ensure that the van Aaken SmartBox™ wiring harness has not been damaged.
- 3 Make sure that no other connections in the engine bay have been disturbed accidentally.

If you can find nothing wrong and the vehicle will still not start, contact your supplier or contact van Aaken Developments directly stating where your van Aaken SmartBox™ was purchased.



Warranty Statement

van Aaken Developments Ltd 12-Month Warranty Statement

van Aaken Developments Ltd (vAD) warrants to the original purchaser that any parts purchased shall be free from defects in material and workmanship. A defect is defined as a condition that would render the product inoperable. This warranty does not cover deterioration of plating, paint or any other coating. vAD liability is limited to the repair or replacement, at vAD's option, of any warrantable product returned prepaid with a complete service history and proof of purchase to the factory. A valid proof of purchase is a dated bill of sale. Repaired or replaced product will be returned to the customer freight collect. Accepted warranty units, which have been replaced, become the sole property of vAD.

Product returned for warranty determination must be accompanied by a complete service history, including details of the circumstances under which the defect occurred, and a Return Material Authorization (RMA) number obtained in advance from a vAD customer services representative. vAD will be the final authority on all warranty decisions.

This warranty shall not apply to any unit which has been improperly stored or installed; subjected to misapplication, improper operating conditions, accidents, or neglect; or which has been improperly repaired or altered or otherwise mistreated by the owner or his agent.

This warranty shall terminate at the end of 12 months in service with the original user. Labour cost incurred by the removal and replacement of a vAD product, while performing warranty work, will be the responsibility of the vehicle owner, in no case does the obligation of van Aaken Developments Ltd exceed the original purchase price of the product as indicated on the original bill of sale.

Except as set forth in this warranty, vAD disclaims any implied warranty, including implied warranties of merchantability and fitness for a particular purpose. **vAD also disclaims any liability for incidental or consequential damages including but not limited to, repair labour, rental vehicles, hotel costs or any other inconvenience costs.** This warranty is in view of all warranties or guarantees; either expressed or implied and shall not extend to any customer or to any person other than the original purchaser.