



Maintenance Instructions

VWR Performance Air Filter & Intakes

Cleaning & Re-oiling

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VWR Performance Air Filter Maintenance Guide

Thank you for choosing the VWR Panel Air Filter or Cold-Air Intake - developed exclusively by Volkswagen Racing. We have provided instructions on cleaning and maintenance over the next few pages. Please take time to read through, and ensure that your fitting agent reads these. We would suggest that you keep these notes with your car for future maintenance/owners.

We recommend that the filter element is cleaned every 20,000 miles/30,000 km. This is a simple procedure, and will ensure that your filter continues to deliver the power improvements over a standard car.

Please note that if you do not clean your filter at the above intervals, no loss of filtration will occur, and your engine will still be fully protected. However, the performance advantages of additional airflow of a clean filter will be lost.

If your car is regularly used in a dusty environment, we advise that you clean and re-oil your filter more regularly.

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Overview on removal of the filters before cleaning and maintenance

As a general rule, when removing and refitting the VWR Air Filter (whether panel or cold air intake), the following guidelines should be adhered to:

- ▶ Air filter kits are of great importance to providing the engine with the cleanest and correct volume of air. They should therefore be fitted with the utmost care and attention. Full fitting instructions are available for all filters and intakes from the volkswagenracing.co.uk website - please make sure you have read and understood the fitting and removal process before starting on this.
- ▶ It is recommended that they are fitted by persons possessing the necessary expertise i.e. a trained vehicle technician.
- ▶ These instructions are for guideline purposes only and do not take into account any special features that may apply.
- ▶ Regional and model variances do occur across the vehicles that this part is intended for, which may lead to some minor differences between descriptions and pictures shown in this document. If in doubt please contact your distributor or Volkswagen Racing UK.

Warning - oiling VWR intakes and Panel Filters

- ▶ **Never** use an unoiled or dry foam filter in your vehicle as this will significantly reduce the efficiency and may allow small dust particles to pass through without being trapped by the dust retention oil.
- ▶ Before first fitment, please check that your VWR filter has been factory pre oiled.

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Step 1: Cleaning your filter

Using petrol (gasoline):

- ▶ The best and cheapest way to clean your filter is to use normal petrol which is readily available.
- ▶ Using a shallow, petrol-resistant tray, fill with around 10mm depth of petrol. Dip the filter in the petrol and agitate so that the petrol penetrates into the filter foam and draws the dirt/dust out into the tray. The petrol will dissolve the oil instantly and will also help draw out the dust.
- ▶ Once you are happy that the entire oil residue and dirt has been removed by the petrol dispose of the petrol in an appropriate manner (at a recycling tip or similar, but not down the household drain system). Only repeat this process with clean petrol if necessary.
- ▶ Then leave the filter to air dry in an open environment, but away from any ignition source or naked flame for a minimum of 24 hours. Once the filter is completely dry it can be re-oiled.

Using a proprietary foam air filter cleaner

- ▶ These products are generally a little more time consuming than using petrol, although the results are similar. Read instructions and safety warnings on the product before use. Follow the instructions provided on your cleaning product; in general, the procedure is as follows:
- ▶ Using a petrol resistant tray, fill around 10mm depth of cleaning fluid then place complete filter in tray and agitate and compress the foam until the oil is dissolved. The cleaning solution will generally go a milky colour when it contains dissolved oil. Massage the foam to assist in releasing the dust out of the filter. Dependant on how dirty the filter is you may have to repeat this process if necessary, although once is normally sufficient.
- ▶ This process should take no longer than 5 minutes. Dispose of the used cleaning solution in the appropriate manner (at a recycling tip or similar but not down the household drain system).
- ▶ Immediately refill the tray with cold water plus 5ml of washing up detergent and agitate the filter in the solution for one minute. This process helps remove any remaining oil/dust and also removes cleaning solution residue. Rinse the filter in cold water until none of the soap suds remain and the shake the filter to remove excess water. Leave to dry fully for a minimum period of 24 hours, then re oil using following instructions.

Step 2: Oiling your filter

- ▶ Once you have completed Stage 1, cleaning your filter, and ensured it is completely dry, you are ready to perform the important stage of re-oiling it.
- ▶ You will need to purchase a suitable aerosol Air Filter Oil. It is very important that this is a specific Air Filter Oil, and no sort of other product.
- ▶ VWR Recommends CASTROL, ITG OR SHELL branded aerosol Air Filter Oil.
- ▶ Read instructions and safety warnings on the product before use. Follow the instructions provided on your cleaning product; in general, the procedure is as follows:
 - ▶ Use in an open environment.
 - ▶ Holding the aerosol about 25mm or 1 " from the filter, spray in a circular motion all over the foam surface until the coarse foam pores just start to fill up with oil. Then wearing protective gloves use your finger tips to 'massage' the oil into the depth of the foam whilst it still feels cold to the touch.
 - ▶ The aerosol contains a mix of oil concentrate and thinners which assist the oil to penetrate into the foam. The thinners will evaporate off after around 5-10 minutes, so massage the oil into the foam as soon as it is applied, to assist the oil in penetrating through to the fine inner layer of foam.
 - ▶ Your filter is now ready to re-install. If you think you have over oiled your filter, you can dab the surface of the foam with a strong absorbent paper tissue, which will remove most of the excess oil.
 - ▶ Re-installation should follow the VWR fitting instructions.

Note:

- ▶ Under no circumstances use cotton gauze filter oil or any other oil not specifically manufactured for foam air filters, as oil will not stick to the foam and thus may allow dust through the filter with the risk of causing the engine or MAF sensor damage.
- ▶ Under no circumstances use a highly alkaline cleaner above PH-8, such as powder based cleaners or a clothes detergent. to clean a foam filter. Using a highly alkaline cleaner will breakdown the foam structure and destroy the effectiveness of the filter. If in doubt of what is safe to use, contact VWR or your local dealer for advice.

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All shipping charges are not refundable and must be prepaid. All returned items must be in as-new, resellable condition. Any item that has been installed on a vehicle will not be accepted for return under any condition. Please note that certain items such as special order items are non-returnable or refundable. All merchandise is in good condition when leaves our shipping department. If a part is lost (box broken, opened, etc) or damage via transit, you should immediately notify RacingLine).

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