



## | MAINTENANCE GUIDE

Thank you for choosing the RacingLine Panel Air Filter or Cold-Air Intake - developed exclusively by Racingline Performance. 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 inspected every 10,000 miles / 16,000km and cleaned if required. 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 from the additional air flow of a clean filter will be lost. You will also shorten the life of the filter element.

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





## OVERVIEW OF REMOVAL OF FILTER BEFORE CLEANING AND MAINTENANCE

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

*///* Air Filter kits are of great importance in 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 [www.racingline.com](http://www.racingline.com) 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.

## WARNING - OILING RACINGLINE 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 RacingLine filter has been factory pre-oiled.



## STEP 1: CLEANING YOUR FILTER

/// Use Racingline foam air filter cleaner. (Use ITG CL-1 cleaner if Racingline cleaner is unavailable).

/// Racingline cleaning fluid is intended to be used in a two-part cleaning process where the cleaner breaks down the sticky dust retention oil on the filter which is then washed off using warm water.

/// Spray the cleaner liberally onto the filter and thoroughly massage in. You need to ensure the cleaner has worked its way through all the layers in the foam and it may be necessary to apply extra cleaner until you are satisfied the cleaning fluid has fully penetrated the foam. To help the cleaner to break down the oil, it is advisable to leave the filter for 2-3 minutes and then further massage the cleaner into the foam.

/// The next step is to wash the filter out in warm water. Thoroughly wash the filter until you are totally sure that all the cleaning fluid has been removed and the water running through the filter looks clear. It is also advisable to run water through from the clean side outwards to further help the removal of any dust still held within the filter. ***This stage of the process should take no more than 4-5 minutes, leaving the filter submerged in water for a prolonged period of time may cause the glues in the filter to soften and eventually break down.***

/// Next follow the same process again using washing up liquid, this will help to break down any remaining cleaner still left in the filter. Apply a small amount of washing up liquid onto the filter and massage into the foam working it all the way through. Rinse the filter in cold water until none of the soap suds remain and the water runs clear, shake the filter to remove excess water.

/// Now the filter is clean you will need to leave it in a warm, dry place until it is fully dried out for a minimum period of 24 hours. ***Do not use a high pressure air line or heat gun to speed the process up.***

### NOTE:

Under no circumstances use a highly alkaline cleaner above PH-8, such as powder based cleaners or a clothes detergent to clean the 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 Racingline or your local dealer for advice.



## STEP 2: OILING YOUR FILTER

**///** Use Racingline foam air filter oil. (Use ITG JDR-2 oil if Racingline oil is unavailable).

**///** 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.

**///** Read instructions and safety warnings on the product before use.

**///** Use in a well ventilated environment.

**///** Holding the aerosol about 25mm or 1 Inch 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.

**///** Once the oil is applied leave the filter to air for at least 30 minutes.

**///** 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 Racingline fitting instructions.

### NOTE:

Under no circumstances use cotton gauze filter oil or any other oil not specifically manufactured for foam air filters because oil will not stick to the foam and thus may allow dust through the filter with the risk of causing damage to the engine or MAF sensor.