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# **INSTALLATION MANUAL**

## **AEROFLOW PERFORMANCE**

### **OIL COOLER LINE KIT**

#### **WARNING!**

BEFORE PROCEEDING WITH INSTALLATION PLEASE READ INSTRUCTIONS CAREFULLY. THIS PRODUCT REQUIRES DETAILED KNOWLEDGE OF AUTOMOTIVE SYSTEMS. WE RECOMMEND THAT THIS INSTALLATION BE CARRIED OUT BY A QUALIFIED AUTOMOTIVE TECHNICIAN.

#### **Item list included in this kit:**

- 1x Billet sandwich adapter (AF64-2108)
- 1x 3/4"-16 thread insert (AF59-2108-34)
- 1x 13/16"-16 thread insert (AF59-2108-1316)
- 1x M18 x 1.5mm thread insert (AF59-2108-M18)
- 1x M20 x 1.5mm thread insert (AF59-2108-M20)
- 1x M22 x 1.5mm thread insert (AF59-2108-M22)
- 2x 1/8" NPT port plugs (AF932-02BLK)
- 2x -10AN O-ring to -10AN adaptors (AF920-10BLK)
- 2x -8AN O-ring to -10AN adaptors (AF920-10-08BLK)
- 2x 550 series straight -10AN black fittings (AF501-10BLK)
- 2x 550 series 90° -10AN black fittings (AF553-10BLK)
- 1x 3 meters 450 series black light weight hose

## INTRODUCTION

Congratulations on your purchase of Aeroflow Performance billet universal oil cooler line kit. Aeroflow Performance products cannot and will not be responsible for any damage, or other conditions resulting from misapplication of the parts described herein. However, it is our intention to provide the best possible products for our customer, products that perform properly and satisfy your expectations. Should you have any questions? Please call technical support at +61 2 8825 1900 and have the product part number on hand when calling.

This product is designed as a universal fitment kit for most makes and models. It allows the vehicle to run an external oil cooler which must be purchased separately to this kit.

This kit includes the sandwich adapter ( AF64-2108 ) .In most cases the factory oil filter will work with this sandwich adaptor. It is designed as a universal fitment item and may or may not fit your application. If you are unsure please contact a professional. This sandwich adaptor will take oil filter O-ring sizes from inner diameter of 65mm (2-13/16") to outer diameter 71mm (2-13/16").

In some applications when fitting this sandwich adaptor it may interfere with the frame or exhaust systems and a new shorter depth filter may need to be used for ground clearance. Lines and fitting may also interfere with these as well.

This product has a multiple different thread inserts to suit most applications. Please choose the correct insert by matching up to the block and standard oil filter before installing product.

## INSTALLATION

1. Drain engine oil from vehicle when installing this product. A complete oil change is not necessary for this install but it is recommended if the oil has not been changed in within 5000 kilometres.
2. Ensure to clean out sandwich adapter and it is free of any aluminium chips or burrs that could become dislodged in operation.
3. Remove the standard oil filter from the vehicle.
4. Take the correct thread insert needed for you application, the billet sandwich adapter and install onto engine by sliding the thread insert thru the billet sandwich adapter. Turn the thread insert clockwise onto the original engines oil filter nipple on the block.
  - I. **NOTE:** make sure to apply a thin film of oil on all O-rings when installing onto vehicle
5. Using a torque wrench, torque the thread insert to 18-20 ft. lbs.
6. Install standard or appropriately sized oil filter into sandwich adaptor.
7. Install the -8AN O-ring to -10an fittings into the sandwich plate.
  - I. **NOTE:** ensure to use a thin film of appropriate lubricate on the O-rings
  - II. **NOTE:** Sandwich adaptor fittings are clearly marked IN & OUT please ensure to take note of this when plumbing up lines and fittings.
  - III. **NOTE:** if no or only one of the 1/8" NPT ports are being used ensure to apply a thin amount of aeroflow performance AeroSeal (AF98-2023) to the supplied port plugs and install.
8. Install either the straight or 90 ° fittings to the sandwich plate and attach the 450 series hose to the fittings.
9. Run the 450 series hose to the external oil cooler you have chosen to use.
  - I. **NOTE:** when plumbing the lines ensure that is away from moving components and ground clearance is sufficient when vehicle is in motion.
  - II. **NOTE:** Avoid running lines and fittings near extreme heat sources. If necessary, use heat sleeves or fabricate a heat shield to protect lines and fittings.
10. Install either the straight or the 90 ° fittings along with the -10AN O-ring to -10AN fittings onto oil cooler if using an aeroflow performance oil cooler.
11. If a complete oil change was necessary, add new oil to engine. Start engine and check for oil pressure via the dash light or gauge.
  - I. **WARNING:** if no oil pressure is built up in 5 seconds turn engine off immediately to avoid any damage to engine components.
12. Let the engine idle for five minutes once oil pressure has been established. Check all connections for oil leakage while engine is running. Turn engine off and check oil level on dipstick. Oil level may indicate "low" because of oil required to fill new hoses. Add additional oil to full line on dipstick.

*For more information or technical enquires*

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