



Donaldson  
FILTRATION SOLUTIONS

## INSTALLATION & SERVICE INSTRUCTIONS





**PowerCore® 4x4**

**XLC070K Air Cleaner Housing and Filter Kit**



Donaldson Company reserves the right to change design and specifications without prior notice. Do not make any system modifications or adjustments that would alter the original design. Modifications may result in denial of warranty coverage. Consult your Donaldson representative if you have questions regarding the assembly, operation, maintenance or warranty. Illustrations are for reference only as actual product may vary.

## IMPORTANT INFORMATION

	<p>Read these instructions carefully before using this product, paying particular attention to all sections that carry warning symbols, caution symbols and notices. Ensure that these are understood at all times.</p>
	<p><b>WARNING!</b> This symbol is used whenever there is a risk of personnel injury.</p>
	<p><b>CAUTION!</b> This symbol is used whenever there is a risk of damaging your Donaldson product.</p>
	<p><b>NOTE:</b> This symbol is used to provide additional information, hints and tips.</p>



*These recommended installation procedures and instructions are a partial list intended only as a guide. If you are not qualified to undertake this installation, do not attempt it as you may be liable for resulting engine failure.*

*Before installation, inspect product contents for any damage and ensure you have all components required.*

*Filter inspection during initial fitment not required. Please refrain from doing so. Removing and inspecting the element initially runs the risk of misalignment of the formed compression set on the element gasket. Warranty may be void due to misalignment of the formed compression set.*



*Performance enhanced vehicles, with or without a snorkel may trip the indicator prematurely due to increased restriction. This is not a true indication of remaining filter service life.*

*If the service indicator is tripping prematurely it is recommended to maintain a regular service interval for servicing of the air filter.*

*Replacing the Toyota 'Top Hat' intake with an Air Ram will reduce initial restriction.*

## KIT CONTENTS



**Please ensure that the engine is off before installation.  
Remove product contents from packaging and inspect for any damage. Do not install if there is any product damage and contact Donaldson immediately.**

### Required Tools and equipment

- Socket set with extension bar
- Phillips and flat head screwdriver set

### XLC070K Kit Contents

	Description	Qty
Air Cleaner Assembly	Air Cleaner Housing	1
	Air Filter Element	1
	Bracket	2
	Bracket Isolators	1
	Adaptor STD	1
	Special Isolator	1
	M8 Stud Bolt	1
	Vac Valve	1
	Vac Plug	1
	45° Adaptor	1
	Restriction Indicator 30"	1
	Clamp	1
	Caution Label	1
Mounting Bracket Fixtures	M8x16 Bolt	5
	M8 Spring Washer	5
	M8 Flat Washer	5
Housing Assembly Fixtures	M8x35 SEMS Bolt	1
	M8x30 SEMS Bolt	1
	M8 Hex Flange Nut	1

## KIT COMPONENTS



- 1** Housing Body
- 2** Service Cover
- 3** Filter Element
- 4** Service Indicator
- 5** Top Mounting Bracket
- 6** Bottom Mounting Bracket

## INSTALLATION



*Please ensure that the engine is off before installation.*



### Disconnect Intake Pipe

Clean housing outlet clamp area with a clean damp cloth before loosening the clamps.  
This will reduce exposing the engine to contamination.

## Removing the Original Equipment Air Filter Housing Assembly



Loosen inlet and outlet clamps.



Undo latches and remove cover.  
Loosen off the mounting bolts.



Cover the engine intake with a clean cloth to stop any contaminants getting into the engine.

Remove housing and standard intake adapter.



Install supplied STD intake adaptor with clamp into position (this can also be fit as one when you fit the housing in the vehicle).

Install the M8 Stud Bolt in the wheel arch mounting location (max torque 10nm).



**Safari V-spec (X900224) and Armax (X900223) adaptors sold separately.**

## Assembly and Installation Instructions



Vac Valve Option



The retrofit housing is delivered as a complete air cleaner assembly. The filter element has already been installed in the housing, no need to remove and inspect.

### Insert Vac Valve or Vac Plug.

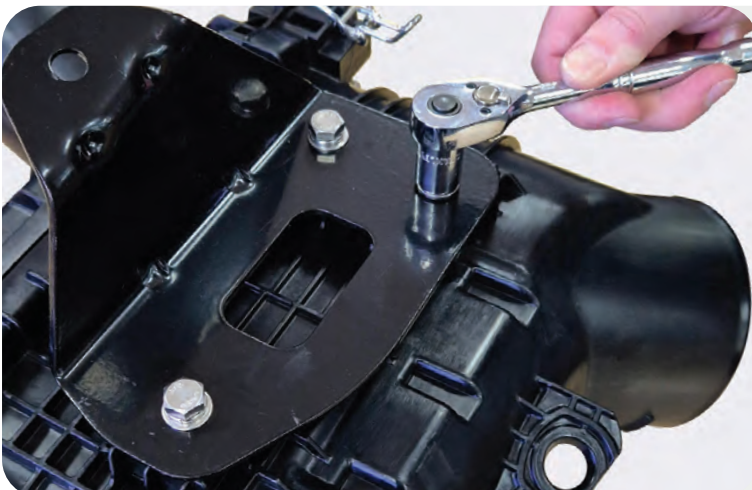
Insert either the supplied rubber Vac Valve or Vac Plug into the hole located on the bottom of the air cleaner housing.



Vac Plug Option

**Please note: Your selection will be dependent on your application requirements.**

Snorkels with inbuilt water separation may not require a Vac Valve to drain accumulated moisture. In this case use the Vac Plug.



Secure the Bottom Bracket to the air housing using the provided stainless steel M8x16 Bolts.

(Bolt, Spring, Washer - max torque 15nm).



The top bracket should be fitted once the housing is installed in the vehicle.



#### Install Isolator

- Fit the isolator into the molded mounting position.
- Use a flat-head screwdriver to lever it into place if tight.

#### Check Rubber Isolators

- Ensure rubber isolators are properly fitted.
- If loose, remove the insert collar, fit the rubber mount, and reinsert the collar.



Fit the Donaldson housing complete.

Leave top bracket off until it's in the vehicle.

Line up the inlet and push housing towards that side.



Lift the bottom of the bellow and outlet until they are aligned.

Push the housing forward and downward into position. If necessary, use a flathead screwdriver to help secure the top lip of the bellow over the outlet.

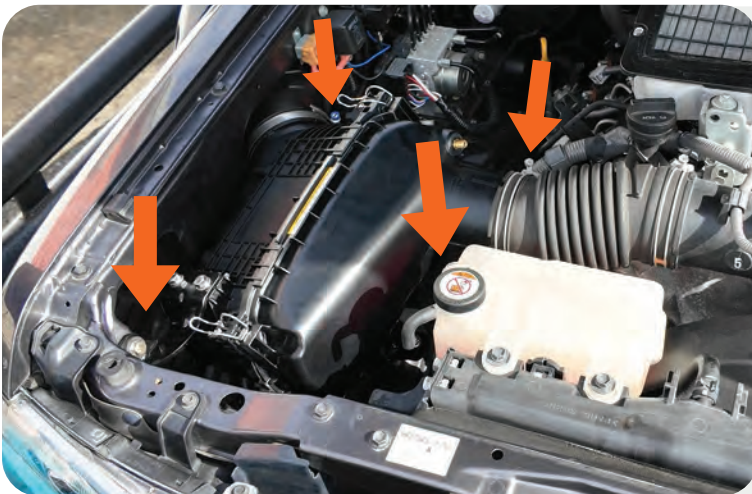
## Installation of the Housing



Align the Snap Fit Isolator and press it down into place.

Adjust the housing and bellows intake pipe to align with the witness mark on the outlet tube.

Install the top bracket using M8x16 bolts (Bolt, Spring, Washer - maximum torque 15Nm).



Align the mounting points for the top and bottom brackets and secure them using the SEMS bolts.

M8x35 SEMS bolt and flange nut for the bottom bracket (maximum torque 24Nm).

M8x30 SEMS bolt (shorter SEMS bolt) for the top bracket (maximum torque 15Nm).

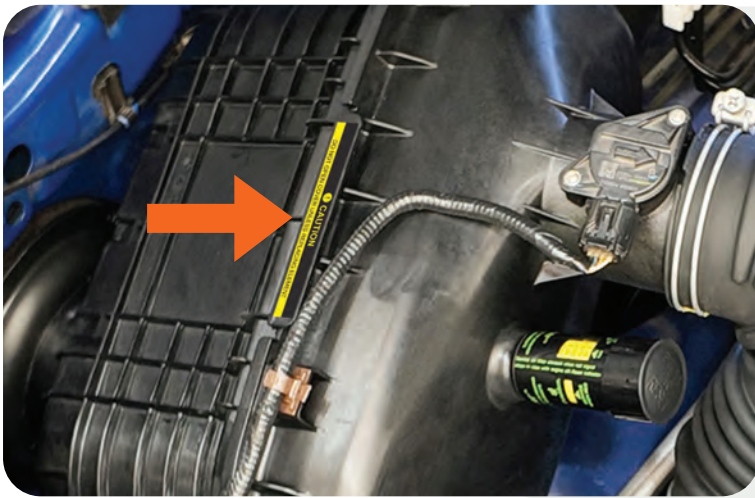
Tighten the inlet clamp. Verify that the outlet witness mark is still aligned, then tighten the outlet clamp.



Install the 45° adaptor and then screw the filter restriction indicator into place.

**It is recommended to apply thread tape to the fittings before installation.**

Reset by pressing the end-cap button.



**Install the adhesive caution label.**

This label will help to remind you or your mechanic not to open the housing unless replacing the element.



Stay connected with the latest in 4x4 filtration by joining the PowerCore XLC070K mailing list.

Be the first to hear about new product updates, upcoming events, and industry news.

Simply scan the QR code to register and receive exclusive access to all things PowerCore 4x4.

## SERVICE & MAINTENANCE INSTRUCTIONS



**Please ensure that the engine is off before installation.**  
**Remove product contents from packaging and inspect for any damage.**  
**Do not install if there is any product damage and contact Donaldson immediately.**



**Do not open the cover unless you are replacing the element.**  
**Removing and inspecting the element can lead to the potential misalignment of the formed compression set on the element gasket, which could void the warranty. Never try to clean the air element, even with compressed air, as this may damage the delicate fibers of the filter media and transfer contaminants to the clean side, also resulting in a voided warranty.**  
**Remove product contents from packaging and inspect for any damage.**  
**Do not install if there is any product damage and contact Donaldson immediately.**



**Air filter service life should be determined by measuring airflow restriction - not by visual inspection. Replace the filter only when the restriction level has reached the maximum recommended by the engine manufacturer or on a regular scheduled service (at least every 12 months).**



### Inspect service indicator

Visually inspect the 'Service When Red' gauge on the service indicator. When this section is completely red, it is time to change your air filter.



Clean the housing outlet clamp area with a damp cloth before loosening the clamp.

This will reduce exposing the engine to contamination.



Loosen the housing outlet clamp almost completely to enable movement of the cover into the intake bellow pipe.

Release the latches and push the cover forward into the intake bellow pipe.



This can be quite tricky and may need some force to manipulate.



Continue pushing the cover forward into the intake bellow pipe while simultaneously lifting it upwards to clear the filter element cage assembly and air housing body.



Once cleared, gently twist the cover and pull it out to remove it from the intake bellow.

Cover the piping with a clean cloth to prevent contaminants from reaching the engine



Remove the filter element from housing.



After removing the filter, use a clean, damp cloth to wipe the interior of the air cleaner housing and the seal surface.



Inspect the Vac Valve or Vac Plug. If either is broken or missing, replace it.



Insert the filter element into the housing, aligning the tabs of the housing with the pockets of the element.

Ensure the gasket contacts the housing. Proper alignment is achieved when the gasket lies flat on the housing sealing surface.



Ensure the element is securely seated in position, taking care to ensure the urethane seal lies flat on the housing sealing surface.



#### Fit housing cover.

Inspect intake bellow pipe and wipe out with a clean damp cloth if necessary.

Make sure to clean the cover outlet pipe and insert back into the intake bellow pipe.



Adding a lubricant like silicon spray to the outlet pipe can assist fitment.



Push cover outlet into intake bellow pipe, while lifting slightly up so the edges of the cover do not touch the new element media pack.



Please take extra care at this step to avoid touching the media pack with the cover!



Align the cover with the housing body and the urethane gasket of the element, then pull it back into place.

Ensure everything is properly aligned between the body and cover, and secure the latches while holding the cover in position.



Align the witness mark arrow at the top of the outlet tube, ensuring the bellows hose is evenly positioned around the entire outlet and reaches the witness mark.

Secure the clamp.



Reset the service indicator by pressing the top cap button.

## FILTER CHANGE HISTORY

DATE:

ODOMETER:

DATE:

ODOMETER:

# Why Choose Donaldson?



## PERFORMANCE

First-fit choice of leading equipment manufacturers around the world.



## INNOVATION

Continuous development of new technologies to meet changing filtration needs.



## RELIABILITY

Comprehensive warranty covering our filters and your equipment.



## QUALITY

The foundational principle driving the design, manufacture and delivery of every product.



## SUPPORT

Knowledgeable technical support specialists available when you need them.



## AVAILABILITY

Innovative, reliable distribution partners providing local support.



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