

January 28, 2011

Subject: **Air Filters Maintenance for Dusty Environments**

No. **2011-11**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
All	Outlander™, Renegade™ and DS 450™	All	All

As with any ATV, air filters maintenance is critical to ensure proper vehicle performances and lifespan.

Depending of the model, the following air filters need maintenance :

- Engine air filter
- CVT air filter
- Fuel tank air filter
- ACS (Air Control Suspension) air filter

The Operator's Guides and Shop Manuals give general guidelines, but depending on the severity of the dusty environment conditions, the following should be done in this order:

1. Air filters maintenance should increase in frequency in more severe (dusty) conditions. In severe conditions air filters need to be cleaned or replaced at a MAXIMUM of 25 hours or 750 km of operation. Dustier conditions will require more frequent filter maintenance. Example: The DS 450, the Outlander X mr and the X xc air filters may be serviced after every ride.
2. Oil may be added to the foam element of the engine air filter. The oil will catch a good quantity of dust before it reaches the paper filter. This helps maintain a non obstructed air passage for an optimum air flow.

NOTE: An accessory pre-filter may be used, (see *BRP ACCESSORY PRE-FILTERS FOR "SEVERE DUSTY ENVIRONMENT"* in this bulletin).

ENGINE AIR FILTER

AIR FILTER MAINTENANCE

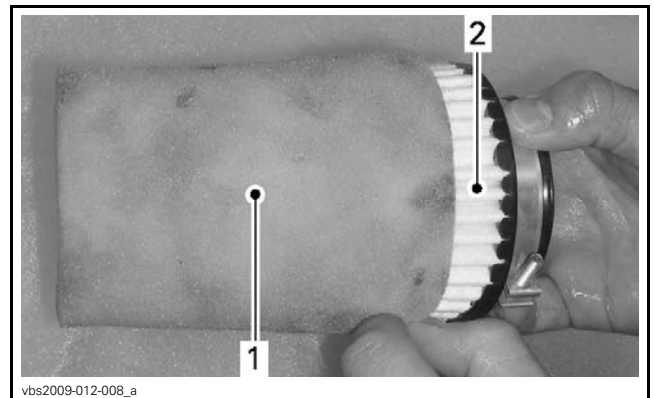
Refer to specific *SHOP MANUALS* for details concerning air filter removal.

NOTE: It is recommended to wear EYE PROTECTION AND APPROPRIATE GLOVES when using chemicals products.

1. Clean the inside of the air box before removing the air filter.

Paper Air Filter Cleaning

1. Separate the foam filter element (if any) from the paper filter.



TYPICAL
1. Foam filter element
2. Paper filter



TYPICAL
1. Foam filter element
2. Paper filter

2. Tap out heavy dust from the paper element.

This will allow dirt and dust to get out of the paper filter.

NOTICE It is not recommended to blow compressed air on the paper element; this could damage the paper fibers and reduce its filtration ability when used in dusty environments.

NOTE: Paper filter have a limited life span; replace filter if too dirty or clogged.

Foam Element Cleaning

1. Soak the foam element inside and out with UNI Foam Filter Cleaner (P/N 219 700 341).



219700341

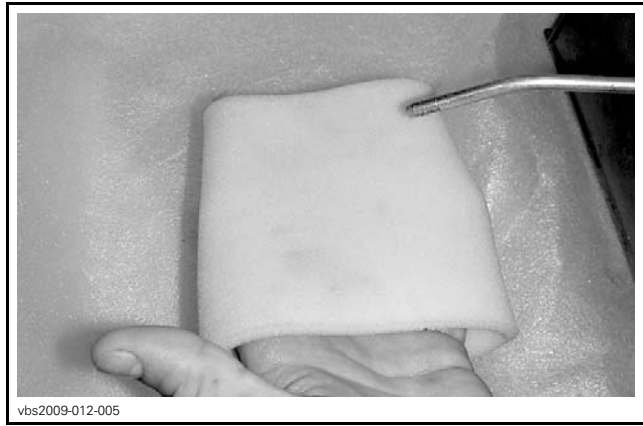
1. UNI Foam Filter Cleaner (P/N 219 700 341)



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SOAK THE FOAM ELEMENT

2. Let stand for 3 minutes.
3. As stated on UNI Foam Filter Cleaner container, rinse with plain water.
4. Dry the foam element completely.



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DRY

NOTE: A second application may be necessary for heavily soiled elements.

Adding Oil to Foam Element:

1. Spray UNI Foam Filter Oil (P/N 219 700 340) on the dry foam element.



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1. UNI Foam Filter Oil (P/N 219 700 340)



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OIL THE FOAM ELEMENT

2. Let stand for 3 to 5 minutes.

3. Remove any excess of oil that could transfer to the paper filter by wrapping the foam element into an absorbent cloth and squeezing gently. This will also ensure a full oil coverage on foam filter.
4. Reinstall the foam element over the paper filter.



5. Reinstall into vehicle making sure that all joints are properly tighten.



CVT AIR FILTER

CVT Air Filter Cleaning

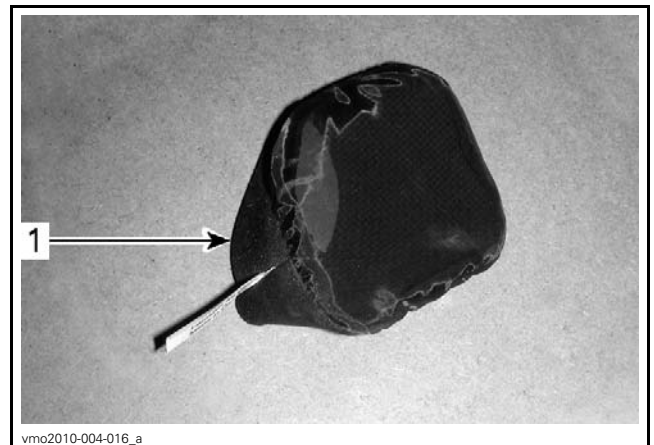
NOTE: Maintaining a clean CVT air filter will maximize air flow for an optimum CVT components lifespan.

1. Spray filter inside and out with AIR FILTER CLEANER (P/N 219 700 341).



AIR FILTER CLEANER (P/N 219 700 341)

2. Let stand for 3 minutes.
3. As stated on air filter cleaner (UNI) container, rinse filter with plain water.
4. Dry filter completely.



1. CVT air filter

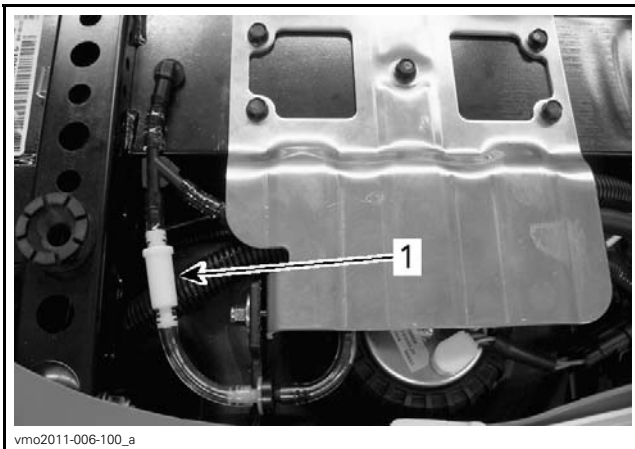
5. Clean inside the CVT air inlet and outlet.

FUEL TANK AIR FILTER

Fuel Tank Breather Filter Replacement

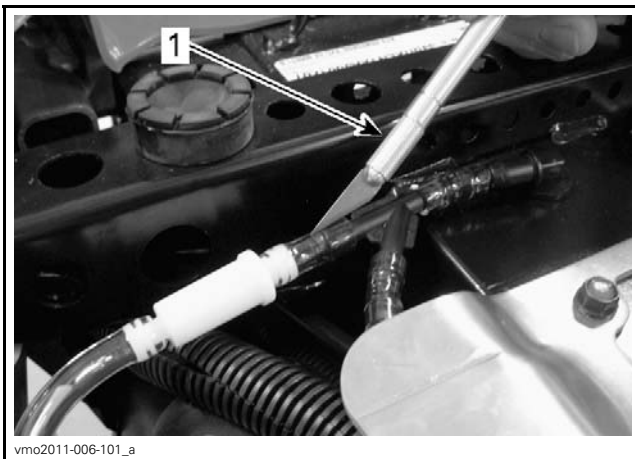
NOTE: The fuel tank breather filter cannot be cleaned.

1. Remove seat.
2. Locate fuel tank breather filter.



1. Fuel tank breather filter

3. Remove filter by carefully cutting hoses at both ends.



TYPICAL - CAREFULLY CUT HOSE
1. Cutting tool

4. Replace both hoses on fuel tank breather line.
5. Install a **new** filter with the arrow orientation as shown on picture.



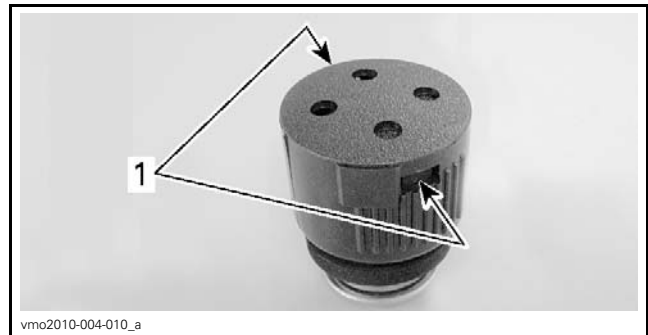
ARROW POINTING TOWARDS OUTSIDE

NOTICE Ensure that all hoses are properly pushed into fittings in order to avoid disconnecting.

ACS (AIR CONTROLLED SUSPENSION) AIR FILTER

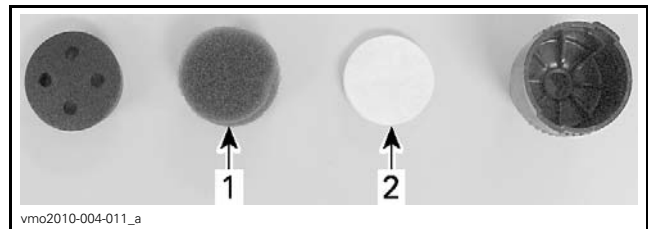
ACS Air Filter Cleaning

Push tabs then open cover.



ACS COMPRESSOR AIR FILTER REMOVED FOR CLARITY PURPOSE
1. tabs

Remove prefilter (foam) and filter (disc).



ACS COMPRESSOR AIR FILTER REMOVED FOR CLARITY PURPOSE
1. Prefilter (foam)
2. Filter (disc)

Clean prefilter (foam) as follows:

1. Spray the prefilter inside and out with AIR FILTER CLEANER (P/N 219 700 341).
2. Let stand for 3 minutes.
3. As stated on air filter cleaner (UNI) container, rinse prefilter with plain water.
4. Dry the prefilter completely.

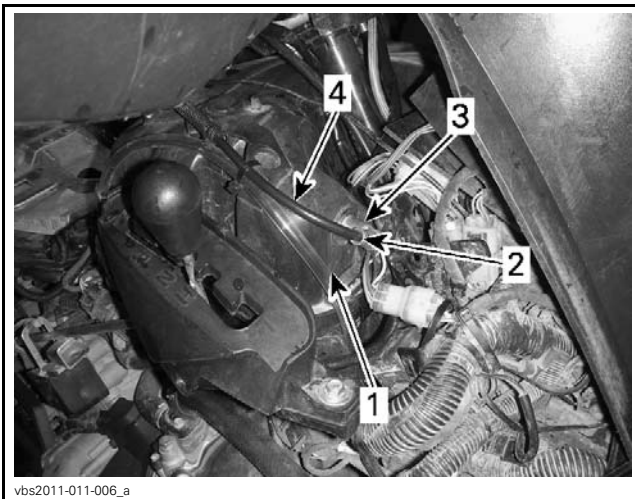
Clean filter (disc) as follows:

1. Blow low pressure compressed air on filter to clean it.

NOTICE Do not wash the filter (disc) with any cleaning solution.

Clean ACS air filter housing as follows:

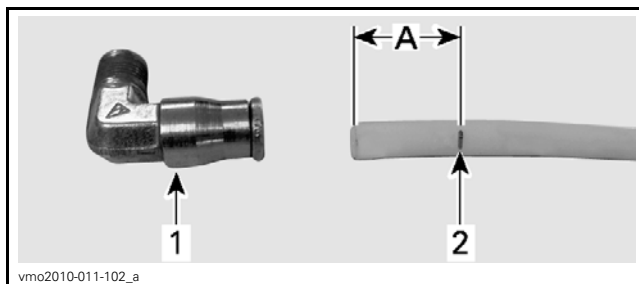
1. Disconnect the compressor inlet hose from air box fitting as follows:
 - 1.1 Push fitting ring toward fitting.
 - 1.2 Hold ring in place.
 - 1.3 Pull inlet hose.



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1. Air box
2. Fitting ring
3. Fitting
4. Compressor inlet hose

2. Clean inside the ACS air filter housing.
3. Connect compressor inlet hose on air box fitting.
4. Push hose until the mark is completely inserted into fitting.



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A. Must be inserted into fitting

1. Fitting
2. Mark



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HOSE PROPERLY INSERTED INTO FITTING

NOTE: Always disconnect compressor inlet hose from air box fitting before cleaning the filter housing in order to avoid pushing dirt into the hose.

NOTICE Ensure that inlet hose is completely pushed into fitting in order to avoid disconnecting.

BRP ACCESSORY PRE-FILTERS FOR "SEVERE DUSTY ENVIRONMENTS"

NOTE: When using a pre-filter, do not oil the foam element excessively to avoid oil transferring to the filter and potentially clogging it.

Air Pre-Filter (P/N 715 500 303)

Fits the following models :

- Outlander 400 EFI (all)
- DS 450 (standard equipment on all)



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(P/N 715 500 303)

Air Pre-Filter (P/N 715 000 291)

Fits the following models :

- Renegade 500 (all)
- Renegade 800 (2008 and prior)
- Outlander 500 & 650 (all)
- Outlander 800 (2008 and prior)



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(P/N 715 000 291)

Air Pre-Filter (P/N 715 000 908)

Fits the following models :

- Outlander 650 (2010 and 2011)
- Outlander 800R (2009 to 2011)
- Renegade 800R (2009 to 2011)

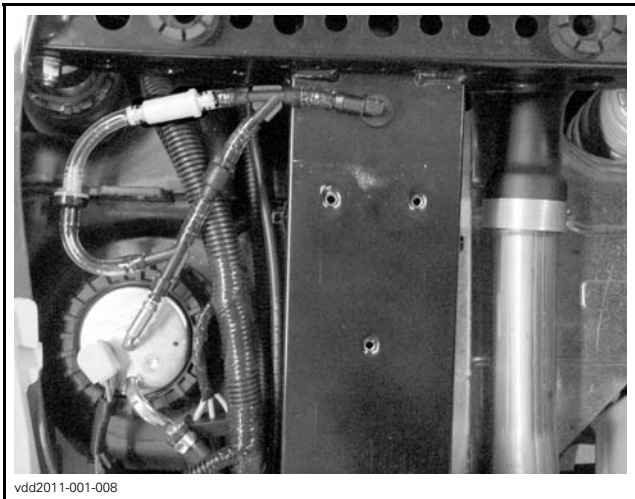


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(P/N 715 000 908)

Fuel Tank Breather Kit (P/N 715 001 288)

This accessory kit can be installed on any Outlander and Renegade model that is not equipped with it from factory, for use in dusty environments.



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