



Congratulations, you have purchased the finest air intake system for your motorcycle on the market. Your Vance & Hines Air Intake system is designed and crafted for maximum performance and a perfect fit. Please follow the installation instructions below and if you have any questions, please call our technical support line at (562) 926-5291.

Attention installer (if other than owner), please forward this instruction sheet to the owner of this product. These instructions contain valuable information to end user.

This kit fits all 2000-later Softail, 1999-2007 Dyna, and Touring Twin Cam 88 and 96 model motorcycles (except 1999-2001 EFI Touring, 2006-2007 CVO FLHTCUSE/2 and 2008-later Touring models). Fits stock, big bore CV, and flatslide carburetors (except CV51 super bore).

**TOOLS
REQUIRED**

- 3/8" Combination wrench
- 3/16" Allen wrench
- 5/32" Allen wrench
- T27 Torx wrench
- 1/4" or 3/8" drive Ratchet
- 3/8" Hex socket
- 7/16" Hex socket
- 5/16" Allen socket
- 5/32" Allen socket
- Inch-pound Torque wrench
- Loctite 243 (blue)

READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION

**OEM SYSTEM
REMOVAL**

1. Take off the air filter cover by removing the button head cap screw in the center.
2. Removed the filter element by taking out the three exposed Torx head cap screws.
3. Remove the breather hoses from the cylinder head breather bolts by pulling on them.
4. Remove the three bolts that secure the backing plate to the carburetor / throttle body and the two breather bolts that secure it to the cylinder heads.
5. Remove the backing plate and gasket, on FI models the wiring mount clip should be carefully pulled out of the plastic housing. NOTE: Be sure that the gasket surface is clean and dry and that no gasket material remains stuck to it.
6. None of the OEM parts will be reused for this installation.

**INSTALLATION OF VO2
AIR FILTER KIT**

1. For a clear understanding of this installation it is best to refer to the exploded view diagram while reading these instructions.
2. When installing or servicing the air cleaner, apply Loctite 243 (blue) to threads of all fasteners.
3. Loosely install the gasket (1) and carburetor / throttle body mount bracket (3) using the two cylinder head breather bolts (4) and breather bolt O-rings (2) NOTE: Make sure the gasket is installed in the correct rotation and right side up. The slightly smaller bleed hole should be in the top left hand corner.
4. Using the three 1/4"-20 x 1" socket head cap screws (9) install the filter backing plate (13) and aluminum venturi (6) to the carburetor / throttle body. Make sure the inside edges of all of these parts are aligned before tightening to 55-60 in-lbs (6.2-6.8 Nm). NOTE: On fuel injected models a mount tab on the carburetor / throttle body mount bracket (3) is supplied to mount the stock wiring mount clip.
5. Tighten the cylinder head breather bolts (4) to 120-144 in-lbs (13.6-16.3 Nm) being careful not to pinch the breather bolt O-rings (2).
6. Install the breather hoses (14 & 15) onto the nipples on the cylinder head breather bolts and through the back of the Filter backing plate (13). NOTE: Make sure that the breather hoses engage at least 1/2" through the filter backing plate.

- 7. Install the filter mount bracket (8) to the aluminum venturi (6) and filter backing plate (13) using the washer (7) and two of the 1/4"-20 x 1/2" button head cap screws (12). NOTE: The washer is used on the screw which attaches to the venturi (see diagram).
- 8. Using the remaining three 1/4"-20 x 1/2" button head cap screws (12) install the air filter element (10) and torque to 55-60 in-lbs (6.2-6.8 Nm). NOTE: The Vance & Hines logo should be at the bottom. The filter is pre-oiled and does not need to be oiled prior to installation, please see the maintenance section for servicing guidelines.

- 9. Thread the 5/16"-18 x 1/2" button head cap screw (11) into the center of the air filter element (10) NOTE: This screw acts only as a plug and has no other function in this installation.
- 10. Using the three 1/4"-20 x 1/2" flange bolts (5) install the "Duke" air filter cover (16 or 17). After 100 miles check to be sure that these bolts are still tight. Periodically ensure that these screws remain tight.

CLEANING AND MAINTENANCE

CHROME COVER

When installing the chrome air filter cover, make sure your hands are clean and free of oil. After installation, thoroughly clean cover with a soft cloth and cleaning solvent that will leave no residue (chrome wax / polish, glass cleaner, alcohol, ammonia, etc.) before starting the motorcycle.

BLACK COVER

When installing the black air filter cover, make sure your hands are clean and free of oil. After installation, thoroughly clean cover with warm soapy water and a clean soft cloth, taking care not to wet the filter element. Dry with clean towel to remove any residue before starting the motorcycle. Do NOT use anything abrasive to clean cover.

VANCE & HINES OPTIONAL ACCESSORIES

FUELPAK



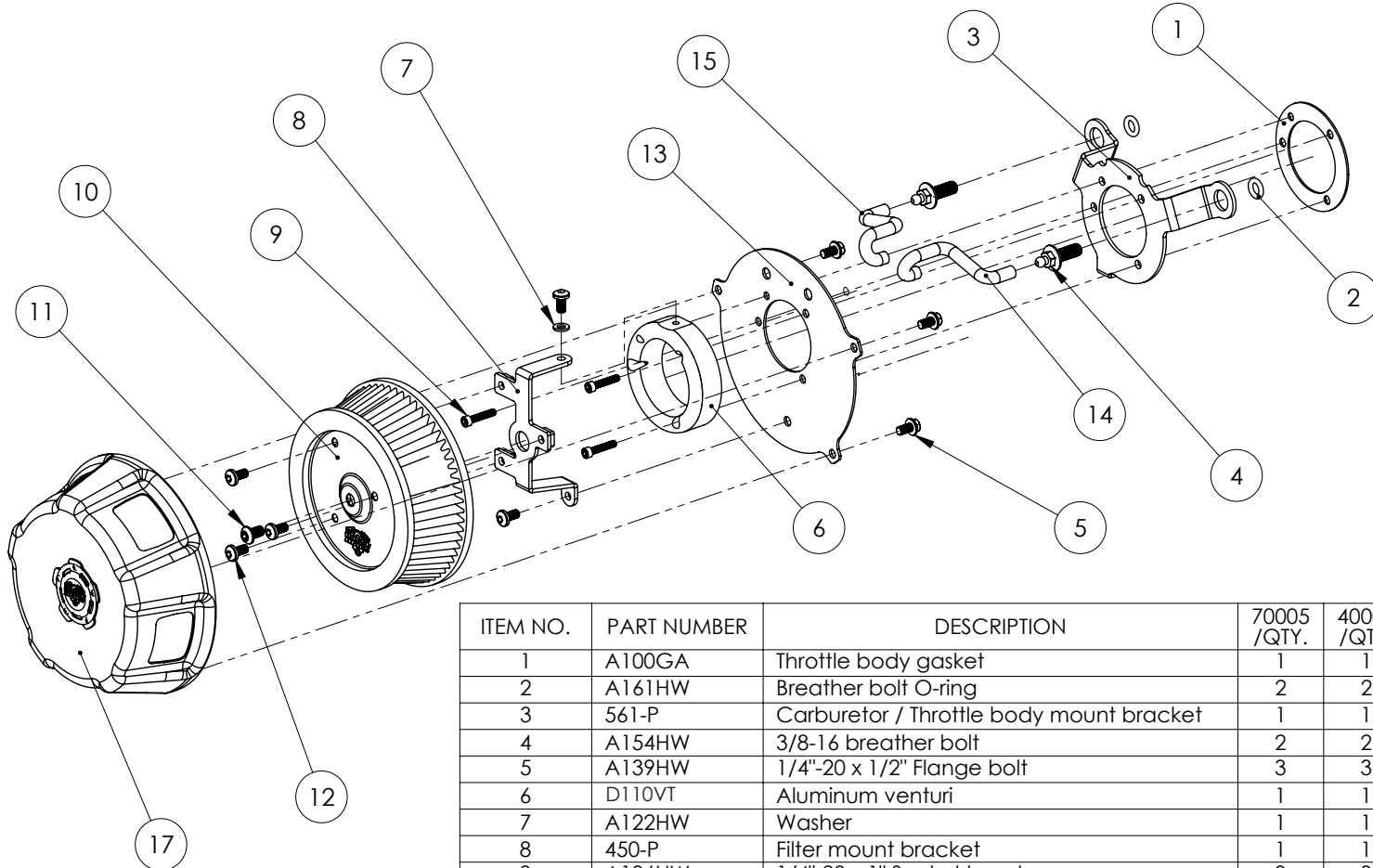
FUEL MANAGEMENT:

Take the guess work out of fuel injection with Fuelpak Fuel Management. Contact your local dealer or call (562) 921-0071 to order. Visit fuelpakfi.com for more information.

Fuelpak is intended for racing or off-highway use only, and is not legal for sale or use in California on pollution-controlled vehicles.

D100FL

Replacement Air Filter Element



ITEM NO.	PART NUMBER	DESCRIPTION	70005 /QTY.	40005 /QTY.
1	A100GA	Throttle body gasket	1	1
2	A161HW	Breather bolt O-ring	2	2
3	561-P	Carburetor / Throttle body mount bracket	1	1
4	A154HW	3/8-16 breather bolt	2	2
5	A139HW	1/4"-20 x 1/2" Flange bolt	3	3
6	D110VT	Aluminum venturi	1	1
7	A122HW	Washer	1	1
8	450-P	Filter mount bracket	1	1
9	A136HW	1/4"-20 x 1" Socket head cap screw	3	3
10	D100FL	Air filter element	1	1
11	A157HW	5/16"-18 x 1/2" Button head cap screw	1	1
12	A235HW	1/4"-20 x 1/2" Button head cap screw	5	5
13	563-P	Filter backing plate	1	1
14	A163HW	Front breather hose	1	1
15	A164HW	Rear breather hose	1	1
16	D115CV-R	Black "Duke" air filter cover	-	1
17	D110CV-R	Chrome "Duke" air filter cover	1	-

WARRANTY

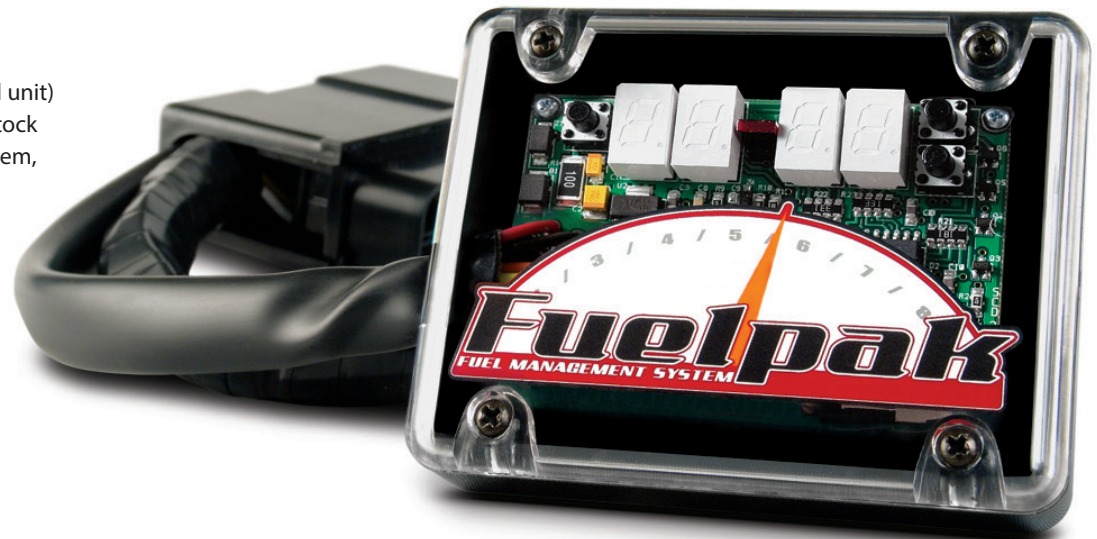
Vance & Hines products are warranted against defects in material and workmanship for a period of 90 days from the date of purchase from an authorized dealer. This warranty does not cover discoloration of chrome finishes. This warranty is limited to the repair or replacement of a product proven to be defective from normal use. Vance & Hines products are designed to fit and operate on OEM motor and chassis. This warranty does not cover any product subject to abuse, misuse, improper installation or modification.

GET THE MOST OUT OF YOUR RIDING EXPERIENCE...
AN AFTERMARKET EXHAUST SYSTEM IS ONLY YOUR FIRST STEP, NOW YOU NEED FUEL MANAGEMENT.

NOW YOU NEED FUELPAK.

Your fuel injected Harley-Davidson® is equipped with an ECU (electronic control unit) that's programmed to deliver fuel to the motor based on an air/fuel ratio for a stock air filter and stock exhaust system. When you install a performance exhaust system, your airflow changes, so you need a fuel management system that adjusts your air/fuel ratio to match the changes. That fuel management system is Fuelpak. Fuelpak adds and takes away fuel, allowing for a more precise range of refinement in your air/fuel ratio. Get the perfect fuel management combination with your Vance & Hines exhaust system, get Fuelpak. For more information visit the tuning center at fuelpakfi.com

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MORE POWER : LESS NOISE