



# INSTALLATION INSTRUCTIONS: HARLEY-DAVIDSON 17-23 TOURING/18-23 SOFTAIL VO2 INSIGHT AIR INTAKE PART# 41077, 41097, 71077

Congratulations, you have purchased the finest air intake available for your motorcycle. Your Vance & Hines air intake is designed and crafted for performance, quality and style. Please follow the instructions below, check air intake kit for missing or damaged parts and if you need any assistance please contact our technical support line (562) 921-7461.

Exempt from emission tampering regulations under CARB EO# D632-7 for 2017-2023 Harley-Davidson Touring and 2018-2023 Softail models.

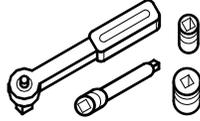
The diagram shows an exploded view of the air intake assembly. Callout 1 points to 12-point bolts. Callout 2 points to the air filter cover. Callout 3 points to air filter standoffs. Callout 4 points to the air filter. Callout 5 points to 1/4-20 x 1/2 hex screws. Callout 6 points to the VO2 venturi backing plate. Callout 7 points to serrated nuts. Callout 8 points to the throttle body gasket. Callout 9 points to the rear cylinder bleed hose. Callout 10 points to the front cylinder bleed hose. Callout 11 points to breather bolts.

ITEM NO.	DESCRIPTION	QTY
1	12 PT BOLTS	4
2	AIR FILTER COVER	1
3	AIR FILTER STANDOFF	4
4	AIR FILTER	1
5	SCREW 1/4-20 X 1/2 HEX	3
6	VO2 VENTURI BACKING PLATE M8	1
7	SERRATED NUT BLACK	4
8	GASKET THROTTLE BODY 2017	1
9	REAR CYLINDER BLEED HOSE	1
10	FRONT CYLINDER BLEED HOSE	1
11	BREATHER BOLTS	2

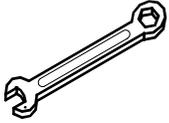
## TOOLS REQUIRED



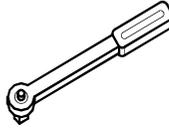
**T27 Torx Wrench**  
**3/8" Allen**



**1/4" or 3/8" Drive Ratchet**  
**7/16" Hex Socket**  
**5/16" 12 Point Socket**



**Combination Wrench**  
**7/16"**



**Inch-Pound Torque**  
**Wrench**

**Loctite 243 (blue)**

**NOTE:** For 17-24 Touring & 18-24 Softail Fitment: CVO, Softail S & all models with Screamin' Eagle Style Stage 1 Air cleaner requires purchase of Harley Part #16400049 Induction Module Support Bracket

## OEM SYSTEM REMOVAL

1. Begin by removing the OE air filter cover. On some models the cap screw may be covered by a vanity cover. Carefully pull this cover off carefully as it is held on by Velcro.
2. This will expose the filter element, which is then removed by taking out the three Torx head cap screws.
3. Remove the breather hoses from the cylinder head breather bolts by gently pulling on them.
4. Now remove the backing plate and gasket from the throttle body by unbolting the cylinder head breather bolts. **NOTE:** Be sure that the gasket surface is clean and dry and that no gasket material remains stuck to it.

## V&H AIR INTAKE INSTALLATION

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. Install the two cylinder head breather bolts (**11**). **NOTE:** Tighten the cylinder head breather bolts to 120-144 in-lbs (13.6-16.3 Nm).
4. Install the rear and front breather hoses (**9**) & (**10**) through the top two holes in the venturi backing plate (**6**), aligned as shown.
5. Using the three 1/4"-20 x 1/2" hex head screws (**5**) install the gasket (**8**) onto the throttle body. Only thread in the hex head screws halfway
6. Sandwich the air filter cover (**2**), the air filter (**4**) and the venturi backing plate (**6**) using the 12 point head cap screws (**1**), standoffs (**3**) and serrated nuts (**7**). **NOTE:** Make sure the bigger end of the air filter standoffs (**3**) are closest to the bike.
7. Take the assembly and slide the backing plate over the three hex head screws (**5**) on the throttle body. Rotate clockwise to lock the assembly in place. Ensure the Vance & Hines logo is level and tighten the hex head screws. **NOTE:** Torque the screws to 55-60 in-lb (6.2-6.8 Nm).
8. Place provided CARB EO Decal in a visible location on the motorcycle's chassis near the air intake.
9. After 100 miles check to be sure that all bolts are still tight. Periodically ensure that these screws remain tight.

**Emissions Notice:**

In California, in order to meet Air Resources Board emissions requirements, certain aftermarket part applications have been identified as replacements, and others have received ARB Executive Orders. All other emissions related aftermarket parts are for competition use only. A list of replacement parts and EO parts, and corresponding fitment is provided at [vanceandhines.com/california](http://vanceandhines.com/california).

**Warranty:**

All Vance & Hines products are warranted against defects in material and workmanship for a period of 90 days. This warranty does not cover discoloration or rust. This warranty shall be limited to the repair or replacement of the product, which may be proven defective under normal use. Vance & Hines will not warranty any system that has been abused, misused, improperly installed or modified.

Dealers or distributors are not authorized to make dispositions binding upon Vance & Hines. Vance & Hines will not be responsible for any labor charges incurred in removing or replacing any system under warranty. A return authorization number and a copy of the original purchase invoice must accompany all returns. Parts returned without a return authorization may be refused.



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