



## INSTALLATION INSTRUCTIONS

### VEHICLE APPLICATION

Year: 2013 - 2018  
 Make: Ram  
 Model: 2500/3500 Diesel  
 Engine: 6.7L Cummins

### TOOLS REQUIRED

- 7mm, 8mm, 10mm, & 13mm Wrench & Socket
- 1/8" Allen Key (Supplied w/ Kit), 3/16" Allen Key
- T27 Security Torx Wrench
- 5/16" Nut Driver or Flat Blade Screwdriver
- Phillips Screwdriver, Pliers or Channel locks

### S&B FILTER MAINTENANCE

- Cleanable (KF-1037). If the enclosed filter is Red, it came pre-oiled from the factory. Please visit [www.sbfilters.com](http://www.sbfilters.com) for exact oil amount required after cleaning.
- Disposable (KF-1037D). If the enclosed filter is White, it is a disposable filter and should be discarded once it reaches capacity. This filter **does not require oil**. For more info on S&B's disposable filter, visit [www.sbfilters.com](http://www.sbfilters.com).

### NOTES

Kit may not fit with the following Aftermarket Parts installed:

- Aftermarket Parts installed
- Body Lift or Lowering Kit
- Custom Hood
- Intercooler or Turbo upgrades

### CARB STATUS - Pending

Product will be submitted to Air Resources Board for approval shortly.

**Not legal for use in CA or other states adopting CA emissions standards See Page 6 for more info.**

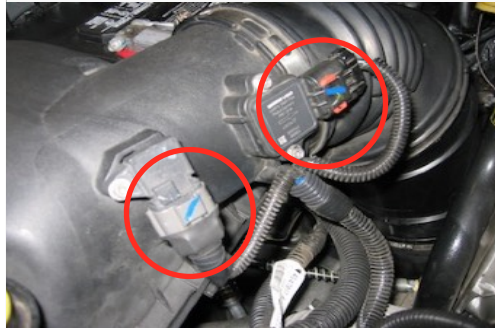
### BEFORE YOU START

- Please read the entire product guide before proceeding.
- Ensure all components listed on page 4 are present.
- If you are missing any of the components, call our customer support at (909) 947-0015.
- Do not work on your vehicle while engine is hot.
- Make sure the engine is turned off and the vehicle is in Park or the Parking Brake is set.

**1.** Switch the ignition to Key Off and set the parking break. It is important to let the computer power down for 10 minutes before disconnecting the negative cables on both batteries. **Note: Failure to disconnect the battery may cause the CEL to illuminate upon completion of the installation and subsequent operation. Do not skip this step!**



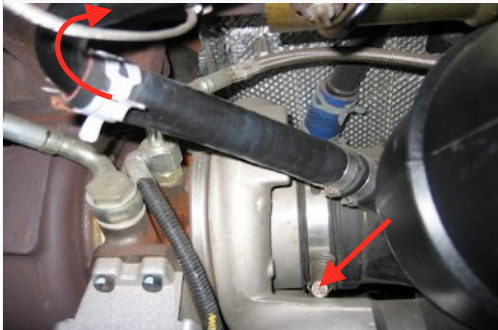
**2.** Disconnect the electrical connection for the Intake Air Temp (IAT) sensor and the Mass Air Flow (MAF) sensor then unsnap the wire loom from the tube.



**3.** For the MAF sensor, slide the red locking tab up then depress the black lever while disengaging the connector. For the IAT sensor just depress the grey lever while disengaging the connector.



**4.** Loosen the hose clamp at the turbo inlet, next pinch the spring clamp and slide it up the steel piping. Then disconnect the silicone hose from the steel piping and remove spring clamp. **Note:** On the 2016 models, there might be some rubber around the spring clamp holding it in place. You will have to tear or cut this piece so it would be easier to the remove.



**5.** Remove factory retaining bolt on the front of the factory air box. Once retaining bolt is removed disconnect hose clip by pulling up and then move hose forward to help remove air box. (See Below)



**6.** Lift up on factory air box, be careful not to remove the whole box because the swing gate motor harness is still connected. Remember to move the hose forward from Step 6 when pulling out the box.



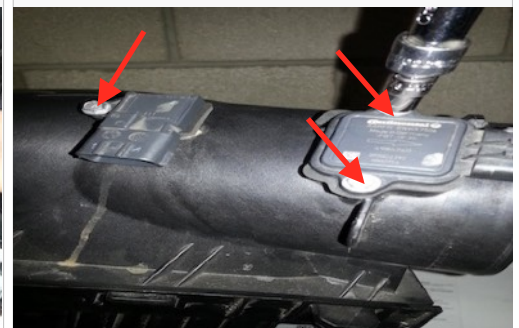
**7.** Disconnect the harness from the Factory Swing Gate Motor (L) that is located on the side of the factory air box. Press in the locking button on the connector and pull out. Unsnap the wire loom clip from the air box.



**8.** Once the harness is disconnected, completely remove the factory air box and intake tube by lifting up and out.



**9.** Remove the MAF sensor and IAT Sensor from the factory air box by removing the three factory bolts.



SEE EXPLODED VIEW ON PAGE 6



## INSTALLATION INSTRUCTIONS (CONTINUED)

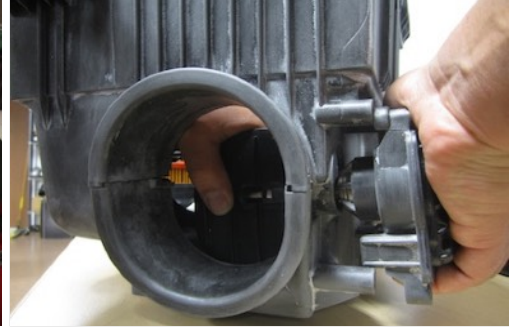
**10.** Place MAF sensor and IAT Sensor onto the Intake Tube (X) using the 8-32 Screw (U), and MAF and IAT Gasket (V & W).



**11.** Remove the Factory Swing Gate Motor (L) from the side of the factory air box using a T-27 torx key.



**12.** A good amount of force may be required to remove the motor from the factory air box. The motor shaft may need to be rotated while removing from the factory butterfly valve in the factory air box. Grab both the butterfly valve and motor and twist while pulling out.



**13.** Mount the swing gate motor onto the bottom of the Intake Air Box (I) using Spacer (K) and #10-24 Screw (N) and #10 Washer (M).



**14.** Construct the S&B Swing Gate Dam to Arm (O & S) using the provided hardware (Q, R, & P) and using the provided Allen Key (AD). If you desire to have both inlets open in the air box skip this step. **Warning:** The Dam (O) must be installed during harsh weather including but not limited to rain, ice, sleet or snow; or engine damage could result.



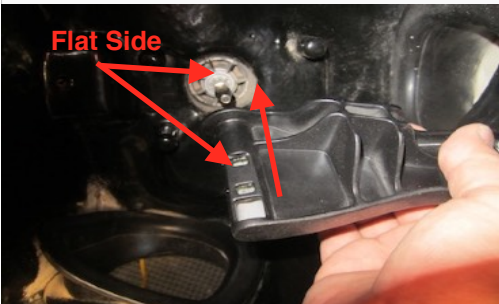
**15.** Install the Tube Seal (T) onto the Air Box (I).



**16.** Install the Side and Front Inlets (G & J) into the Air Box (I) by inserting and snapping into place. A bit of force and effort may be necessary to install inlets and seal. The lip on the air box must sit in between the center grooves on the inlets. Line up each part with the dot on the box.



**17.** When placing the Swing Gate Arm (S) onto the Factory Swing Gate Motor (L) please make sure the flat side of the swing gate arm is placed correctly on the flat side of the motor shaft. Push down on swing gate arm all the way down till it snaps into place. **Note:** Do NOT remove swing gate arm if at all possible after installing it to the motor as this could damage the snap in feature of the arm.



**18.** Do NOT remove or manually turn the Swing Gate Arm (S) after it is attached to the motor as this could damage the arm. If removal of Swing Gate Dam (O) is desired, leave the Swing Gate Arm (S) attached to the Factory Swing Gate Motor (L), and carefully unbolt the Swing Gate Dam (O) from the Swing Gate Arm (S).



**Warning:** Never operate the vehicle without the Swing Gate Arm (S) installed or an Active Air Box Error message will occur. Never remove or manually rotate the arm once it is installed on the motor shaft. Doing so will damage the swing arm and cause an Active Air Box Error. The Dam (O) can be removed during good weather conditions, but the Arm (S) must remain attached to the motor (see #18 above). In the event that you receive an Active Air Box Error message, you will need a reset kit (HP1321-00). Please visit our website or contact S&B Filters for more information.

S&B Filters is not responsible for any engine damage whatsoever if the air dam is removed and damage results due to water, hail or snow.

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## INSTALLATION INSTRUCTIONS (CONTINUED)

**19.** Install the Reducer Hose (Z) with #16 and #12 Hose Clamp (Y & AA). Next install Coupler (AC) and #64 Hose Clamp (AB) onto the Intake Tube (X). Remember to only tighten the #16 Hose Clamp (Y) and #64 Hose Clamp (AB) on the tube side.



**20.** Install Intake Tube (X) into Air Box (I) by sliding the tube through the Tube Seal (T). This should be a snug fit. A perfect seal is not required.



**21.** Before installing the Air Box (I) and Intake Tube (X) assembly, connect the Extension Harness (AE) to the Factory Swing Gate Motor (L). Then connect the factory sensor to the back end of the Extension Harness (AE).



**22.** Place the Air Box (I) with air tube assembly into vehicle.



**23.** When fitting the S&B intake box into the vehicle please make sure that the stand-off post on the bottom of the air box fit properly into the holes on the air box tray in the vehicle. Reach under the air box to feel if the posts pushed through the holes (grommets). Be careful not to push too hard or the tabs will break off the battery tray.



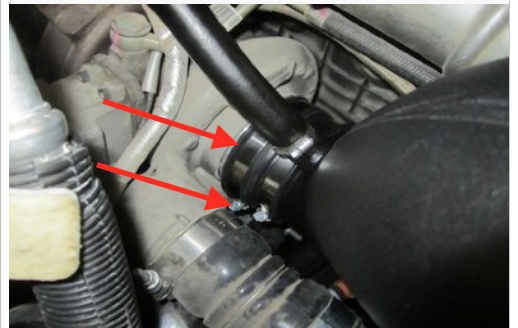
**24.** After dropping in the box move hose forward to let the box drop down completely. Once box is dropped flush reconnect hose clip to the vehicle.



**25.** Push down on air box and tighten the provided Retaining Bolt (H). If the bolt does not align correctly please go back to Step 24 to make sure the box is set correctly.



**26.** Connect Coupler (AC) to turbo and tighten #64 Hose Clamp (AB). Please make sure the coupler is pushed all the way onto turbo before tightening completely.



**27.** Install the Reducer Hose (Z) onto the crankcase ventilation line then tighten #12 Hose Clamp (AA).



**28.** Reconnect the MAF and IAT sensor.



**29.** Install the Air Filter (E), please make sure to install with flat side up and feed the filter onto tube and push down. Once installed, tighten the #72 Hose Clamp (F).

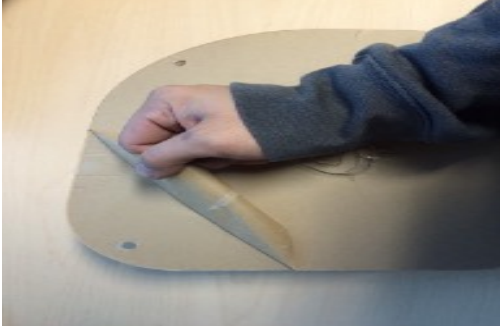


SEE EXPLODED VIEW ON PAGE 6



## INSTALLATION INSTRUCTIONS (CONTINUED)

**30.** Remove the protective covering from the Clear Lid (D).



**31.** Install the provided Edge Trim (C) around the lid. Once edge trim is installed roll the sides of the lid on a flat surface to ensure a tight seal. Once edge trim is installed roll the sides of the lid on a flat surface to ensure a tight seal.



**32.** Install the Clear Lid (D) using the four #10-24 Screw (A) and Washer (B).



**33.** Reconnect the negative terminal on both batteries. Inspect your installation, make sure the kit is properly positioned and all fasteners are secure. Keep all stock parts in case you would ever need to reinstall the stock intake assembly. Affix the ID label near the intake kit. The installation is now complete.



SEE EXPLODED VIEW ON PAGE 6

## INSTALLATION INSTRUCTIONS (CONTINUED)

### RELATED ITEMS FOR YOUR PURCHASE



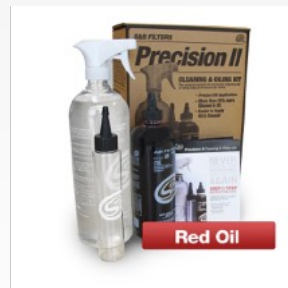
Air Filter Wrap  
SKU# WF-1037



Replacement Cotton Filter  
SKU# KF-1037



Replacement Dry Filter  
SKU# KF-1037D



Precision II: Cleaning & Oil Kit  
SKU# 88-0008

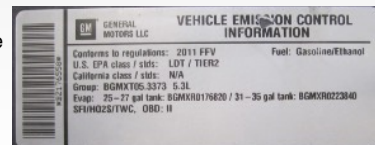
Order online today at [www.sbfilters.com](http://www.sbfilters.com) or through your local S&B distributor.

### PERFORMANCE TESTING

- After your installation is complete, engage parking brake and start your engine. Listen for abnormal noises. If an air leak is detected, re-inspect hoses and connections as they may need to be repositioned and tightened.
- S&B FILTERS recommends that you keep your OE intake system in the event it is required in the future.
- In order to maintain your warranty, all connections and components must be checked periodically for alignment and for proper tension on all connections. Failure to do so may void your warranty.
- Use only S&B FILTERS cleaning and oil products to service your filter. Using any other brand oil and or cleaners on your S&B air filter may void your warranty.

### WARNING!

If your vehicle has a Vehicle Emission Control Information decal affixed to the factory airbox, a new replacement label must be obtained and installed in a readily visible position in the engine compartment in order to remain CARB compliant. Failure to do so will prevent the vehicle from passing a smog check. Replacement labels can be ordered from your local dealership. Regulations state that the VECI label shall not be affixed to any equipment which is easily detached from the vehicle. Label placement, under the hood on a painted surface is recommended.



### EMISSIONS STANDARD

The California Air Resource Board (CARB) requires that an E.O. identification label be applied to the vehicle in order to pass a smog check inspection when a Performance Intake Kit has been installed. You must place the E.O. label provided on or near the intake kit after installation so that a smog check technician can easily verify the E.O. number. Check the status of the exemption process by looking up a specific part number at [www.sbfilters.com](http://www.sbfilters.com). The CARB Exemption number and/or status is listed under the Product Details section for each part number. If the status shows as "Pending," CARB has yet to issue an exemption. Products that have not been issued an EO number are street legal in most states, but may not be used on emission controlled vehicles in the state of California and are for off road use only. If you purchased your kit from S&B Filters directly, we will automatically mail you your Exemption Sticker when it is issued to us. If you purchased your kit from an authorized S&B Filters Dealer, log onto our web site and register to receive your Exemption Sticker.

SEE EXPLODED VIEW ON PAGE 6



**EXPLODED VIEW**



ITEM	QTY.	DESCRIPTION	P/N	ITEM	QTY.	DESCRIPTION	P/N
A	4	SCREW, #10-24 x 1/2"	AI1539-00	R	4	WASHER, FLAT, #10	AI1226-00
B	4	WASHER, SEALING, #10	AI1540-00	S	1	SWING GATE ARM	AI1622-00
C	1	EDGE TRIM	AI1636-01	T	1	TUBE SEAL	AI1614C-00
D	1	CLEAR LID	AI1613-00	U	3	SCREW, PAN, 8-32 x 1/2"	AI1479-00
E	1	AIR FILTER	KF-1037	V	1	MAF GASKET	AI1301-00
F	1	HOSE CLAMP, #72	AG1009-00	W	1	IAT GASKET	AI1302-00
G	1	SIDE INLET SEAL	AI1611-00	X	1	INTAKE TUBE	AL1218-00
H	1	RETAINING BOLT, ALLEN, M8	AI1369-00	Y	1	HOSE CLAMP, #16	AG1001-00
I	1	AIR BOX	AL1218B-00	Z	1	REDUCER HOSE, 1.00"ID x .75"ID x 8.00"	AI1996-00
J	1	FRONT INLET SEAL	AI1610-00	AA	1	HOSE CLAMP, #12	AG1030-00
K	4	SPACER	AI1621-00	AB	2	HOSE CLAMP, #64	AG1018-00
L	1	FACTORY SWING GATE MOTOR	-----	AC	1	COUPLER, 4.10"ID x 2.00"	AI1029C-00
M	4	WASHER, SEALING, #10	AI1273-00	<b>PARTS BELOW ARE NOT IN THE EXPLODED VIEW</b>			
N	4	SCREW, #10-24 x 1.75"	AI1619-00	AD	1	HEX ALLEN KEY, 1/8"	AI1634-00
O	1	SWING GATE DAM	AI1623-00	AE	1	EXTENSION HARNESS	AI1721-00
P	2	LOCKNUT, #10-24	AI1047-00				
Q	2	SCREW, #10-24 x 3/4"	AI1624-00				