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Because every industry has a leader

## S&S Teardrop Air Cleaner Kit Installation Instructions for 2002-Up Honda® VTX® 1800 Motorcycles

### DISCLAIMER:

S&S parts are designed for high performance, off road, racing applications and are intended for the very experienced rider only. The installation of S&S parts may void or adversely affect your factory warranty. In addition such installation and use may violate certain federal, state, and local laws, rules and ordinances as well as other laws when used on motor vehicles used on public highways, especially in states where pollution laws may apply. Always check federal, state, and local laws before modifying your motorcycle. It is the sole and exclusive responsibility of the user to determine the suitability of the product for his or her use, and the user shall assume all legal, personal injury risk and liability and all other obligations, duties, and risks associated therewith.

The word Honda® and VTX® are used as reference only. S&S Cycle is not associated with Honda Motor Co. LTD.

### SAFE INSTALLATION AND OPERATION RULES:

Before installing your new S&S part it is your responsibility to read and follow the installation and maintenance procedures in these instructions and follow the basic rules below for your personal safety.

- Gasoline is extremely flammable and explosive under certain conditions and toxic when breathed. Do not smoke. Perform installation in a well ventilated area away from open flames or sparks.
- If motorcycle has been running, wait until engine and exhaust pipes have cooled down to avoid getting burned before performing any installation steps.
- Before performing any installation steps disconnect battery to eliminate potential sparks and inadvertent engagement of starter while working on electrical components.
- Read instructions thoroughly and carefully so all procedures are completely understood before performing any installation steps. Contact S&S with any questions you may have if any steps are unclear or any abnormalities occur during installation or operation of motorcycle with a S&S part on it.
- Consult an appropriate service manual for your motorcycle for correct disassembly and reassembly procedures for any parts that need to be removed to facilitate installation.
- Use good judgment when performing installation and operating motorcycle. Good judgment begins with a clear head. Don't let alcohol, drugs or fatigue impair your judgment. Start installation when you are fresh.
- Be sure all federal, state and local laws are obeyed with the installation.
- For optimum performance and safety and to minimize potential damage to carb or other components, use all mounting hardware that is provided and follow all installation instructions.
- Motorcycle exhaust fumes are toxic and poisonous and must not be breathed. Run motorcycle in a well ventilated area where fumes can dissipate.

### IMPORTANT NOTICE:

Statements in this instruction sheet preceded by the following words are of special significance.



WARNING

Means there is the possibility of injury to yourself or others.



CAUTION

Means there is the possibility of damage to the part or motorcycle.

NOTE

*Other information of particular importance has been placed in italic type.*

S&S recommends you take special notice of these items.

### WARRANTY:

All S&S parts are guaranteed to the original purchaser to be free of manufacturing defects in materials and workmanship for a period of twelve (12) months from the date of purchase. Merchandise that fails to conform to these conditions will be repaired or replaced at S&S's option if the parts are returned to us by the purchaser within the 12 month warranty period or within 10 days thereafter.

In the event warranty service is required, the original purchaser must call or write S&S immediately with the problem. Some problems can be rectified by a telephone call and need no further course of action.

A part that is suspect of being defective must not be replaced by a Dealer without prior authorization from S&S. If it is deemed necessary for S&S to make an evaluation to determine whether the part was defective, a return authorization number must be obtained from S&S. The parts must be packaged properly so as to not cause further damage and be returned prepaid to S&S with a copy of the original invoice of purchase and a detailed letter outlining the nature of the problem, how the part was used and the circumstances at the time of failure. If after an evaluation has been made by S&S and the part was found to be defective, repair, replacement or refund will be granted.

### ADDITIONAL WARRANTY PROVISIONS:

- (1) S&S shall have no obligation in the event an S&S part is modified by any other person or organization.
- (2) S&S shall have no obligation if an S&S part becomes defective in whole or in part as a result of improper installation, improper maintenance, improper use, abnormal operation, or any other misuse or mistreatment of the S&S part.
- (3) S&S shall not be liable for any consequential or incidental damages resulting from the failure of an S&S part, the breach of any warranties, the failure to deliver, delay in delivery, delivery in non-conforming condition, or for any other breach of contract or duty between S&S and a customer.
- (4) This S&S product is designed exclusively for use in Honda® VTX® 1800 motorcycles. S&S shall have no warranty or liability obligation if an S&S part is used in any other application.

## INSTALLATION

- 1- Remove the stock air cleaner housing according to the Honda® factory service manual.
- 2- Remove the intake duct control hose from the intake duct control solenoid according to the Honda factory service manual. **See Picture 1.**
- 3- Install the rubber vacuum line cap over the intake duct control solenoid fitting.



Remove hose, install rubber vacuum line cap on intake duct control solenoid fitting.

Picture 1

- 4- Remove the intake air temp sensor from the air box as shown in **Picture 2.**
- 5- Install the intake air temp sensor into the aluminum back plate with the included 10-24 x 1/2" socket head cap screws as shown in **Picture 3** making sure to use Loctite® 243 on the threads. Torque to 35-40 in-lbs.

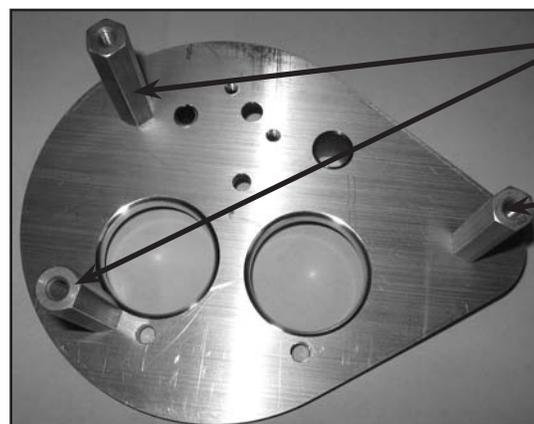


Picture 2



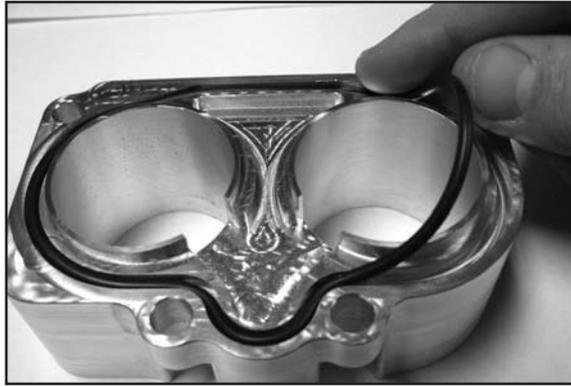
Picture 3

- 6- Install standoffs in the three locations shown in **Picture 4** using three 1/4-20 x 1/2 low socket head cap screws. Apply Loctite® 243 and torque to 40-45 in-lbs.



Picture 4

7- Install the M3x90mm o-ring into the adaptor back plate as shown in **Picture 5**.



**Picture 5**

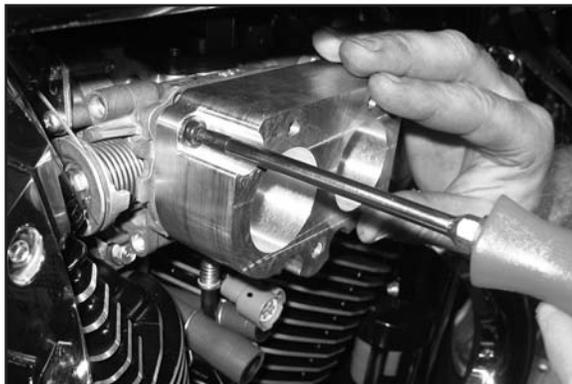
8- Remove the four stock 5mm Phillips head screws from the stock air cleaner housing. **See Picture 6**.



**Picture 6**

9- Install the adaptor plate to the throttle body using four stock 5mm screws as shown in **Picture 7**. Make sure to apply Loctite® 243 to the screws and tighten securely.

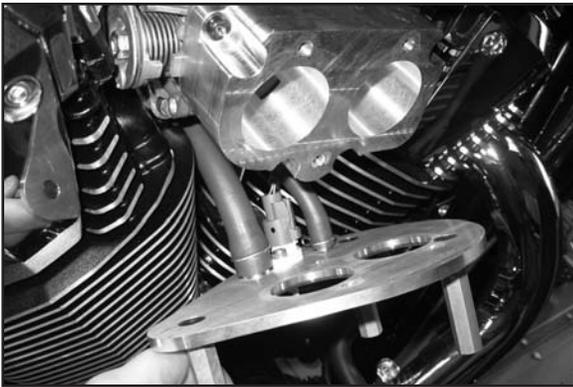
**NOTE:** Make sure to align throttle body bore with adaptor plate bore before tightening screws for best performance.



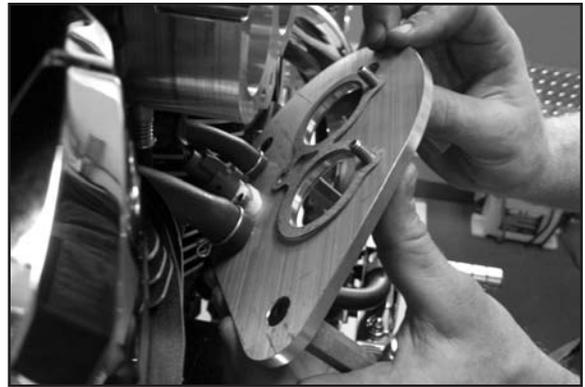
**Picture 7**

10- Install the intake air hose, intake air temp sensor connector, and breather hose to the back plate as shown in **Picture 8**, using the stock wire clamps.

11- Place the gasket onto the back plate using two ¼-20 x ¾ socket head cap screws to hold the gasket in place as shown in **Picture 9**.



**Picture 8**

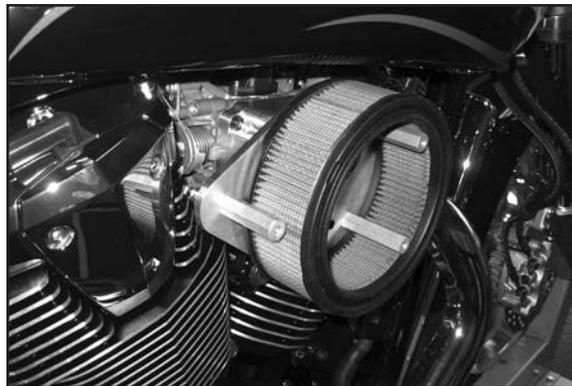


**Picture 9**

12- Install the third ¼-20 x ¾ socket head cap screw and torque all three bolts to 80-90 in-lbs.

**NOTE:** Make sure to align back plate bore with adaptor plate bore before tightening bolts for best performance.

13- Place the air filter onto the back plate as shown in **Picture 10**.



**Picture 10**

14- Install the teardrop air cleaner cover using three ¼-20 x 1" pan head screws. Apply Loctite® 243 and torque to 35-45 in-lbs.



**Picture 11**

15- Reinstall the fuel tank & seat according to the Honda® factory service manual.