

Instruction 510-0460

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Installation Instructions: S&S Stealth Air Cleaner Kits For 2014-'17 Harley-Davidson® Street 500cc and 750cc Models

DISCLAIMER:

Many S&S parts are designed for high performance, closed course, 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. 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.

NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLES

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 an 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.

Kit Contents

- Air Filter (1)
- Back Plate Assembly (1)
- Top Plate (1)
- Hardware Kit

Tools Required

- 5/16" Allen Socket
- 4mm Allen Socket
- 5mm Allen Socket
- 5/32" Allen Socket
- 3/16" wrench
- Inch pound torque wrench

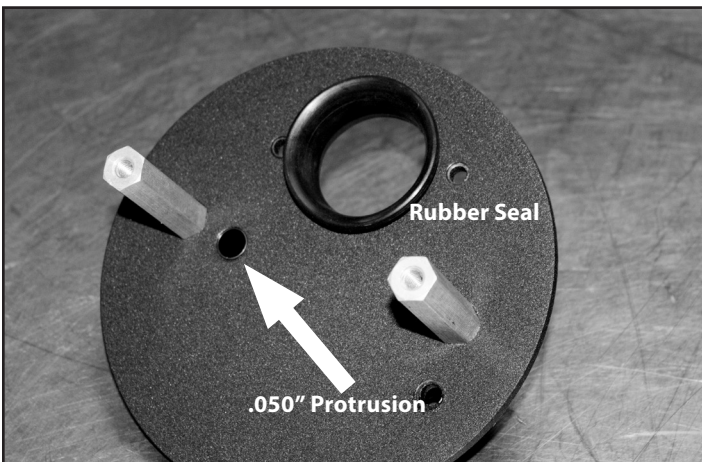
Installation Steps

1. Remove stock air cleaner. Refer to factory service manual for recommended procedure.
2. Remove rubber throttle body seal from stock air cleaner backplate. This seal will be reused in the installation. See **Picture 1**.



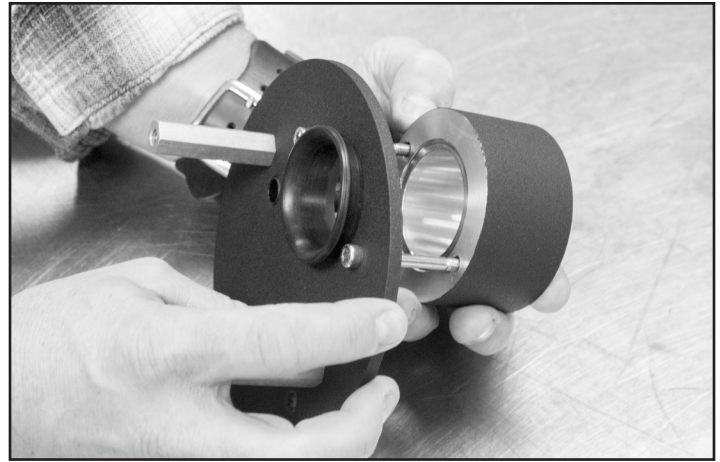
Picture 1

3. Install rubber seal removed in **Step 1** in S&S air cleaner backplate in the same position as it was in the stock backplate. See **Picture 2**.



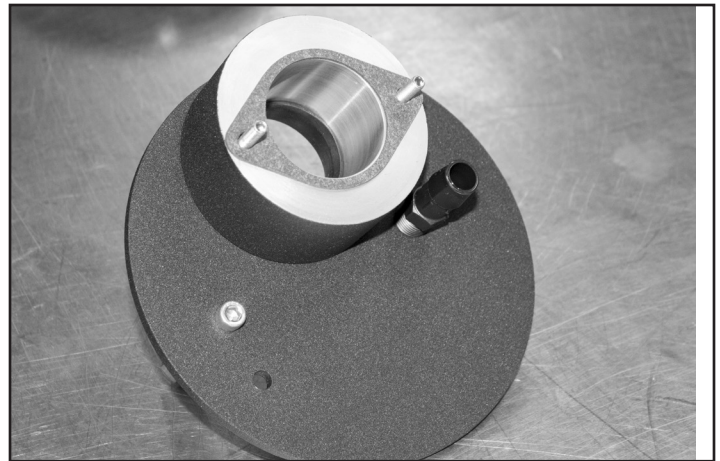
Picture 2

4. Apply PTFE tape or liquid pipe thread sealant to threads of 1/4"-18 NPT hose fitting, and install in the rear of the S&S back plate. Fitting should protrude a minimum of .050" above the inside surface of the backplate. See **Picture 2**.
5. Insert two M5-0.80 x 60mm socket head cap screws through back plate as shown in **Picture 3**.



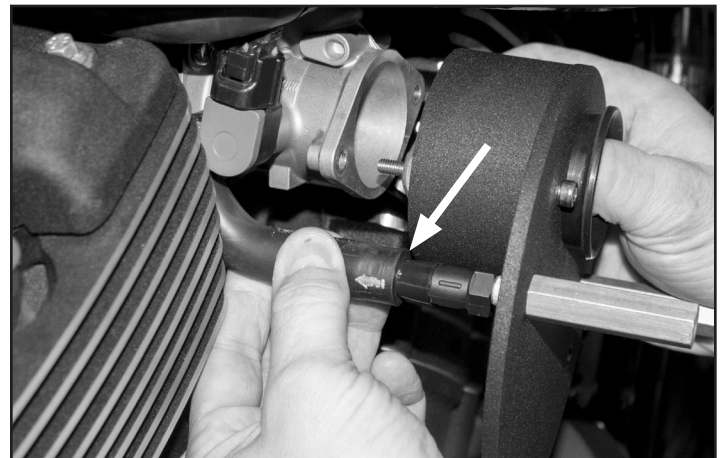
Picture 3

6. Slide aluminum spacer over M5 socket head cap screws making sure that the seal groove in the spacer faces the backplate. See **Picture 3**.
7. Slide throttle body gasket over M5 screws in aluminum spacer. See **Picture 4**.



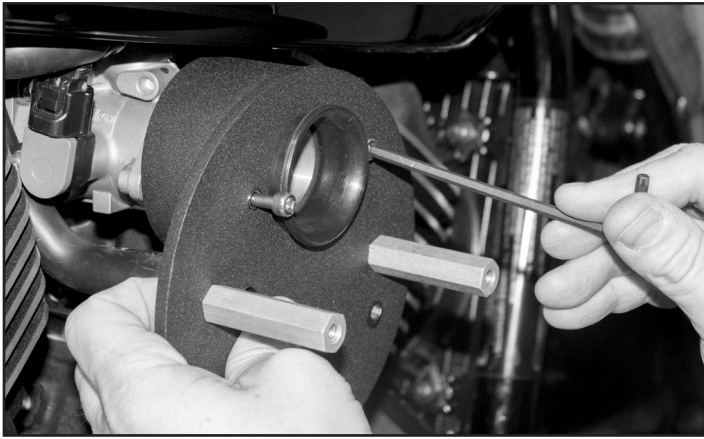
Picture 4

8. Apply supplied thread locker to the threads of the two M5-0.80 x 60mm socket head cap screws
9. Hold backplate up to the stock throttle body and attach the breather hose to the hose fitting in the backplate. See **Picture 5**.



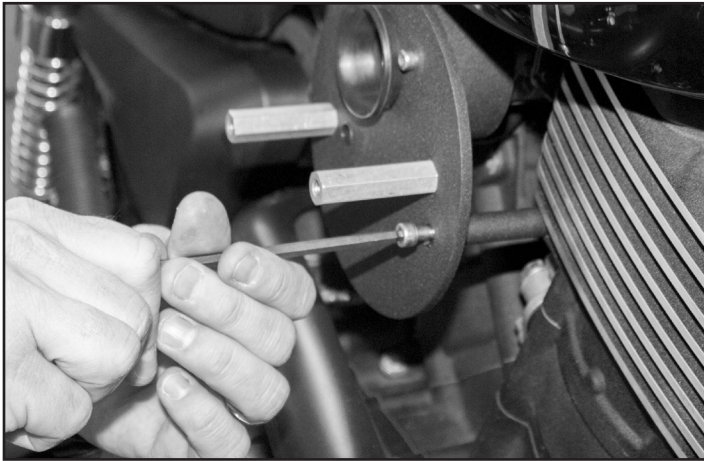
Picture 5

10. Align the back plate assembly with the throttle body, and start the M5 cap screws. Do not tighten. See **Picture 6**.



Picture 6

11. Apply thread locker to the threads of the M6-1.0x70mm socket head cap screw, and install through the backplate and 1/2" x 2" aluminum spacer. Start cap screw in the threaded hole on the front cylinder head. See **Picture 7**.



Picture 7

12. Snug M5 cap screws in backplate, making sure the rubber throttle body seal is aligned with the groove in the aluminum spacer.
13. Snug the M6 cap screw in the backplate.
14. Tighten the two M5 cap screws to 40 in-lb.
15. Tighten the M6 cap screw to 60 in-lb.
16. Apply thread locker to the two 1/4"-20 button head flanged cap screws.
17. Install the filter and filter top to the backplate as shown. See **Picture 8**.

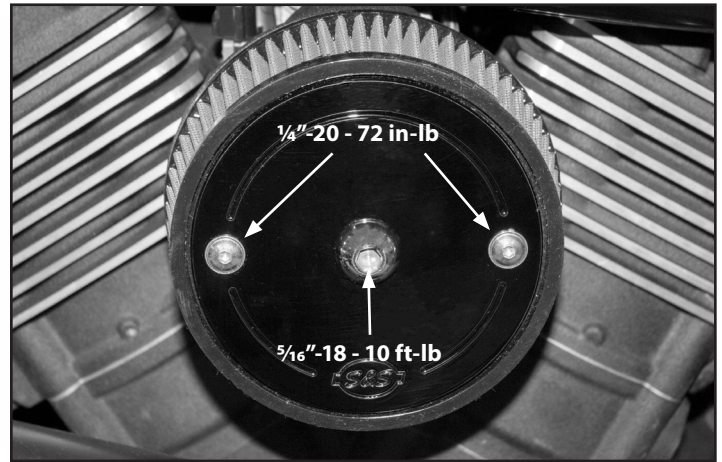


Picture 8

18. Tighten screws to 72 in-lb. See **Picture 9**.

NOTE – This air cleaner may be run without a cover, or an S&S Stealth cover may be installed. S&S Airstream covers are not compatible with this application.

19. If a cover is to be installed remove the 5/16"-18 button head cap screw from the filter top, and apply thread locker. Use this screw to secure the cover to the air cleaner. Tighten to 10 ft-lb.
20. If a cover will not be installed, remove the 5/16"-18 button head cap screw from the filter top, and apply thread locker. Reinstall the screw and tighten to 10 ft-lb. See **Picture 9**.



Picture 9

Replacement Parts

- 1. Filter,Air,Tprd,StdPlt,5.500" x 6.000" x..... 170-0043
- 2. Gasket,Intake,1.720" 170-0371
- 3. Screw,SHCB, $\frac{5}{16}$ -18 x .500",Pol,Stnls Stl..... 500-0051
- 4. Plate,Top,Air Filter,S&S® Logo,GIBlk 170-0379
- 5. Screw,SHC,FIng Btn, $\frac{1}{4}$ -20 UNC x .750" (2 Req) 500-0060

