



Installation Instructions: Shadow Pipe for Sidewinder 2-1 for 2009–Up Harley-Davidson® Touring 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.

The words Harley®, Harley-Davidson®, H-D®, Sportster®, Evolution®, and all H-D part numbers and model designations are used in reference only. S&S Cycle is not associated with Harley-Davidson, Inc.

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.

ATTENTION INSTALLER (if other than owner):

Please forward this instruction sheet to the purchaser of this product. These instructions also contain valuable information necessary to the end user.

NOTES:

- This system may not be compatible with swing arm pivot suspension stabilizers.
- When installing on 2010 Street Glide®/Road Glide® Custom models with OEM 2-1 exhaust system will require the purchase of the following Harley-Davidson® components: 65296-95A (hanger bracket), 65724-85 (rubber isolator), 65723-85 (exhaust clamp)

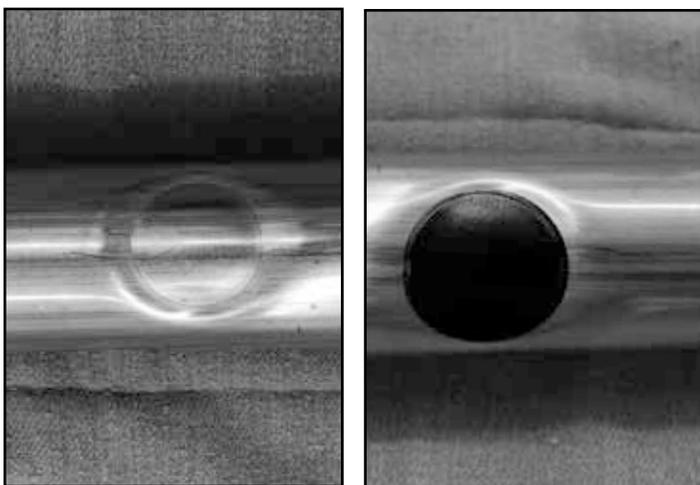
Tools Needed:

¼" drive ratchet	10mm Allen wrench
¼" drive ½" socket	⅝" nut driver or flat screwdriver
¼" drive ⅞" socket	⅞" box wrench
¼" drive 6" extension	½" box wrench
⅜" Allen wrench	⅞" box wrench
¼" Allen wrench	14mm box wrench
⅝" Allen wrench	15mm box wrench
6mm Allen wrench	22mm box wrench

PROCEDURE

The following installation procedure assumes that an S&S Sidewinder 2-1 system has been installed.

1. Remove saddlebags.
2. Remove the factory crossover pipe clamp and bracket from the back of transmission. Only the ¼" socket head screws will be reused. The other parts are no longer needed.
3. Locate the crossover pipe and silicone dot. Place dot in pipe indent (fig 1 and 2).



Figs. 1 & 2

4. Install two clamp pieces (4 and 5) onto crossover tube. Insert carriage bolt, but do not tighten at this time, to allow left to right adjustment of the clamp.



Fig. 3

5. Locate the ¼" socket head cap screws from Step 2, apply Loctite®, and secure the crossover P-clamp to the back of the transmission. Torque screws to 100-120 in*lbs.
6. Locate the ⅝" bolts and muffler clamps from Step 3, apply Loctite to the bolts and anti seize to the threads of the muffler clamp and install the muffler. Muffler rear bracket should align side to side and up and down with the saddle bag support rear mounting bracket without stress, adjustment of the crossover pipe slip joint may be necessary. Do not fully tighten the 5/16" bracket bolts at this time.
7. Tighten the ⅜" carriage bolt and flanged nut on the crossover pipe P-clamp to 18 ft-lb.
8. Install heat shield. Connect and loosely tighten all worm gear clamps. Position screw heads for easiest access and tighten with a ⅝" nut driver or screwdriver.
9. Align and tighten the muffler clamp.
10. Before operating motorcycle, clean pipes and mufflers with soap and water or window cleaner. Any grease or oil will permanently burn onto pipes. Dry thoroughly.
11. Check all mounting hardware to be sure it is tight before and after first operation of motorcycle. Periodically, check tightness of all mounting hardware.

USE AND CARE:

Wash your accessories with the same care you use when washing your motorcycle. Use mild soap and water. DO NOT use abrasive chemicals or cleaners, or high pressure washers.

Replacement Parts

1. Muffler shell
 Chrome551-0992
 Black.....551-0993
2. Heat Shield
 Chrome551-0115
 Black.....551-0116
3. Crossover.....551-0097
4. End Cap.....551-0994
- Hardware Kit, Includes #5-9.....551-1005
5. Female clamp half.....551-0568
6. Male clamp half.....551-0567
7. Bolt, Carriage, 5/16-18 x 3/4"500-0555
8. Nut, HSFH, 5/16-18 UNC-2B x .283", Zinc, Steel 50-5053-S
9. Bumper551-1491
10. Muffler clamp.....551-0028
11. Plug.....551-1000

