

Instruction 510-0374

02-10-2016 Version 3

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Printed in the U.S.A.

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Installation Instructions: S&S 4" Race Tour Slip-On Mufflers For 1995-Up Harley-Davidson® Touring Models

DISCLAIMER:

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, 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 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 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.

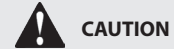
IMPORTANT NOTICE:

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) S&S parts are designed exclusively for use in Harley-Davidson® and other American v-twin motorcycles. S&S shall have no warranty or liability obligation if an S&S part is used in any other application.

Installation Steps

1. Tools Required:

- ½" and ⅝" Combination Wrench
- ⅜" Drive Ratchet with 4" Extension
- ½" Standard Socket
- ⅝" Deep Well Socket

2. Removal of Stock Mufflers:

- Remove the saddlebags and set aside
- Loosen the muffler clamps on the front of each muffler.
- Remove the ⅝" bolts that secure the mufflers to the saddle bag supports. These fasteners will be re-used.
- Remove the stock mufflers. The application of penetrating oil on the muffler/headpipe joint and a slight rocking motion will allow for easier muffler removal. Remove the stock muffler clamps, these will be re-used on the new mufflers. If new clamps are needed, acquire them from your local Harley-Davidson® dealer, pn 65296-95A.

3. S&S Muffler Installation:

- Apply Anti-seize to the threads of the muffler clamp and install the clamps onto the mufflers. The nut of the clamp should be on the inside of the muffler and facing down.
- Locate the right side muffler (muffler with the axle clearance dimple) and install the muffler onto the right head pipe.



Do not allow the inner baffle of the muffler to bottom out on the head pipe. There should be at least a ¼" gap. The best procedure is to install the muffler as far as possible onto the head pipe then pull the muffler back approximately ¼". See **Picture 1**.

- Picture 1: Cross Section of Muffler Inlet and Header Pipe Connection
- Tighten the ⅝" bolts to 18 ft*lb.
- Make sure the muffler is aligned vertically then tighten the muffler clamp to 40-44 ft*lb.
- Repeat procedure for the left side muffler.
- After installation, thoroughly clean the mufflers and exhaust system. Any residue left on the chrome will cause a permanent stain once the system heats up.
- Re-install the saddle bags.
- After the first test ride and after the bike has cooled down, re-check torque of the muffler clamps.

HELPFUL HINTS TO AVOID DISCOLORATION OF EXHAUST PIPES AND MUFFLERS

- Make sure ignition timing and valve clearance are set correctly. Air filters must be serviced at regular intervals.
- Intake air leaks can cause engine to run lean and overheat, and thus discolor pipes.
- Make sure there are no exhaust leaks at the junction of the cylinder head and the exhaust pipe.
- Make sure the exhaust system is not over heated when Dyno tuning.
- Avoid long periods of idling.
- Follow closely your owner's manual instructions regarding use of the starting enrichener on carbureted bikes. If left on longer than recommended, discoloration may be accelerated.

