

**Instruction 510-0377**  
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**S&S® Cycle, Inc.**

**14025 Cty Hwy G PO Box 215**  
**Viola, Wisconsin 54664**  
Phone: 608-627-1497 • Fax: 608-627-1488  
Technical Service Phone: 608-627-TECH (8324)  
Technical Service Email: [sstech@sscycle.com](mailto:sstech@sscycle.com)  
Website: [www.sscycle.com](http://www.sscycle.com)



## **Installation Instructions Fore S&S® 2 into 1 Exhaust Systems For S&S T143 Engines - Part Numbers 550-0535 and 550-0536**

### **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.

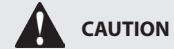
### **IMPORTANT NOTICE:**

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 ninety (90) days from the date of purchase. There is no warranty on the chrome finish. 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 90 day 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.

## Parts list

- 2 - Flanges
- 2 - C-Clips
- 2 - 18mm O2 Plugs
- 10 - # 32 Hose clamps
- 2 - 1"x 1/2" x 3/4" Steel Spacers
- 2 - #200-66 T-Bolt Band Clamps
- 1- 5-Speed Transmission Bracket

## Floorboard Hardware - Early Models

- 2 - 1/2-13 socket head cap screw
- 2 - 1/2" lock washers
- 2 - 1/2" A. N. lock washers

## Floorboards – Late Models

- 1 - 3/8"-16 x 3 1/2" socket head cap screw
- 1 - 3/8"-16 x 2" socket head cap screw
- 2 - 3/8" lock washers
- 1 - 3/8" flat washer
- 1 - 3/8"-16 flange nut

## Transmission Bracket Hardware – 5-Speed

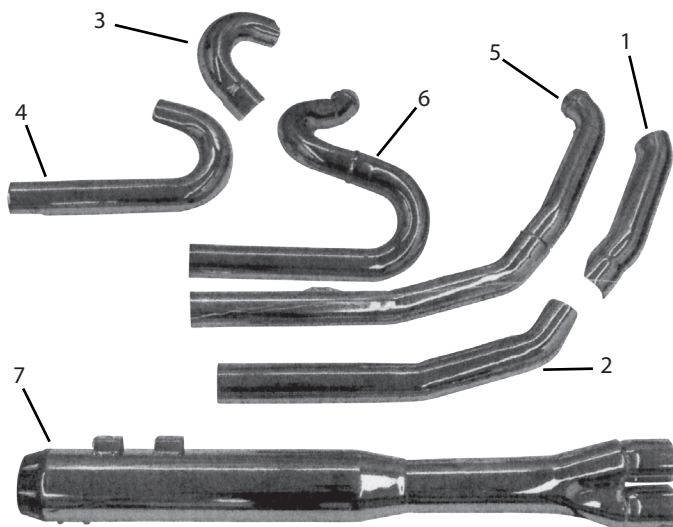
- 1 - 3/8"-16 x 1" hex head bolt
- 1 - 3/8" lock washers
- 2 - 3/8" flat washers
- 1 - 3/8"-16 flange nut

## Rear Mounting Bracket Hardware – Early and Late

- 2 - 5/16"-18 x 3/4" hex head bolts
- 2 - 5/16" lock washers
- 2 - 5/16" flat washers

## Exhaust System Components

1. Front head pipe upper heat shield
2. Front head pipe lower heat shield
3. Rear head pipe upper heat shield
4. Rear head pipe lower heat shield
5. Front head pipe
6. Rear head pipe
7. Muffler



## Tools Required

- 5/16" nut driver
- Snap ring pliers
- 3/8" socket extension
- 3/8" swivel socket
- 3/8" Allen socket
- Sockets 7/16", 1/2", and 9/16"
- Wrenches 1/2", 9/16", and 7/8"

## Installation Procedure

1. Install new exhaust port gaskets.
2. Remove the right side floorboards and brackets.
3. Install the supplied Flanges and C-Clips on the pipes and fit them to the engine. Snug tighten the Flange Nuts so the head Pipes have some movement.
4. The supplied Transmission Bracket is for use on bikes with 5-Speed Transmissions. 6-Speed Transmissions use the Stock Bracket. The tab welded to the Front Head Pipe will sit on top of the Transmission bracket. Use the Supplied 3/8"-16x1" Bolt, Washers, and Nut on this bracket.
5. Slide the supplied T-Bolt Clamps over the ends of the head Pipes, and then fit the muffler in to place. Slide on far enough to align with the rear mounting bracket. Use the 5/16" Bolts and Washers on this bracket.
6. With the system aligned to your satisfaction, tighten the Flange Nuts on the heads and then all the remaining hardware.
7. If you are using the O<sub>2</sub> Sensors install them now, or use the supplied Plugs at the O<sub>2</sub> locations.
8. Heat Shields can now be installed using the supplied clamps. Fit the clamps to the shields in a position to allow for ease of tightening.
9. The floorboards will need the supplied spacers and hardware used to allow clearance at the pipe and heatshield. The hardware supplied will work for both early and late model motorcycles.
10. Before starting the motorcycle, clean and wipe down the pipes with a non-residue or similar type of cleaner and a soft clean cloth. Removal of fingerprints and any oil base residue is necessary to avoid staining the chrome when the exhaust system heats up.

## Notes

- Due to the effects of vibration, check hardware frequently.
- Use rubbing alcohol or glass cleaner to remove finger prints or oil before starting engine, as they will stain the finish when the pipes get hot.
- On initial start-up, cure the finish by running the engine at a low idle for 30 seconds to one minute, and allow the pipes to cool. Repeat 3-4 times.
- This product is intended only for closed course competition use and is not legal for vehicles used on the street.