

**Instruction 51-1112  
4-13-06**

Copyright © 1999, 2005, 2006  
by S&S Cycle, Inc.

All rights reserved.  
Printed in the U.S.A.

**S&S® Cycle, Inc.**

235 Causeway Blvd.  
La Crosse, Wisconsin 54603  
Phone: 608-627-1497 • Fax: 608-627-1488  
Technical Service Phone: 608-627-TECH (8324)  
Technical Service Email: [sstech@sscycycle.com](mailto:sstech@sscycycle.com)  
Website: [www.sscycycle.com](http://www.sscycycle.com)



**Because every industry has a leader**

## S&S® Rocker Cover Wrench Set

### 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 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 inhaled. 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 judgement when performing installation and operating motorcycle. Good judgement begins with a clear head. Don't let alcohol, drugs or fatigue impair your judgement. 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 inhaled. 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.

S&S® rocker cover wrenches are designed to simplify installation and removal of S&S rocker covers.

Tool 53-0041 (3/16" x .35") is intended for sockethead capscrews used on the outside cover. Tool 53-0042 (3/16" x 1.05") is for screws used inside covers. Tool 53-0043 (1/4" x .25") is for rocker shaft support screws. Tool 53-0044 (1/4" x 1.05") is for screws used inside covers of 1999-up engines.

**NOTES:**

- S&S recommends use of torque wrench with rocker cover wrenches whenever possible. However, S&S rocker cover wrenches can also be used with 5/8" box or open-end wrench where space limitations prevent use of torque wrench. Use properly torqued bolt as reference for tightening bolt inaccessible with torque wrench.
- It remains engine builder's responsibility to apply correct grade of Loctite® to screw threads during assembly, and to tighten hardware according to product manufacturer's specifications. 1/4" o.d. rocker cover screws provided in S&S rocker cover kit should be tightened to 10-13 ft-lbs. 3/16" o.d. rocker support screws should be tightened to 15-18 ft-lbs. S&S has used Loctite® 242 on rocker cover and rocker support screws with good results. It is important to clean threads with Loctite® primer or lacquer thinner prior to applying Loctite®.
- Chrome build-up in plated bolts may prevent insertion of S&S wrench. Wire brush or fine file can be used to remove rust-preventive finish from wrench and improve fit. If finish is removed, wrench should be coated with thin film of oil before storage to prevent rust.

**⚠ CAUTION**

- Removing excessive material from wrench will cause poor fit, allowing wrench to slip inside screw socket and cause possible damage to plating or screw.
- Failure to apply Loctite to threads or tighten screw to correct torque specifications may result in screw vibrating loose and causing extensive engine damage not covered under warranty.

**⚠ WARNING**

- Lacquer thinner and many other solvents are potentially hazardous. Read manufacturer's instructions prior to use and heed all cautions.



S&S® recommends use of torque wrench with rocker cover wrenches whenever possible.



A 5/8" box or open-end wrench can be used where space limitations prevent use of torque wrench.



Because every industry has a leader