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 not completely understood before performing any installation steps.
- 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.
INTRODUCTION

S&S® rocker arm rebuild kit will rebuild a complete set of S&S rocker arms for 2017-up Harley-Davidson® M8 models.

KIT CONTENTS:

- 8 Bushings
- 8 Rollers
- 8 Pins
- 18 Retaining Clips (Two extra clips included.)

INSTALLATION

Remove, install and machine bushings

NOTES: Rocker arm service tools, including bushing pullers and installers, may be available from specialty tool suppliers. They should be used according to the manufacturers instructions.

The instructions S&S provides are for the experienced mechanic with access to an arbor press, lathe, and mill for making press tools and fixtures for removal and installation.

Important: Read before bushing removal.

- Bushings must be finish machined after installation. The method used to finish size the rocker arm ID determines the order of disassembly/assembly.
- If using a line hone to finish size the bushings, remove and install bushings on both sides of rocker (per bushing removal and installation instructions below) then finish machine both bushings at the same time using the appropriate sized hone.
- If using a reamer to finish size the bushings, remove and install bushing on one side only (per bushing removal and installation instructions below,) then ream to size using the bushing on the other end to align the reamer.

NOTE: Some aftermarket reamers allow both new bushings to be reamed at the same time. If using an aftermarket reamer, follow manufacturer’s instructions.

1. Bushing removal.

Remove old bushing using an arbor press. Turn a 9/16-18 tap into the bushing. Press out the bushing and tap from opposite side of rocker arm. See Picture 1.

2. Bushing installation and machining.

NOTE: Use assembly lube on bushing and rocker arm bore during the press procedure.

a. One end of each bushing has a lead-in chamfer. Position new bushing with chamfered end to bore of rocker arm. Align rocker arm and bushing in arbor press, then press in the bushing so the outside edge of the bushing is .005”–.015” recessed into the end of the rocker arm.

b. Finish hone to .5553” ± .0003”.

c. Wash rocker arms clean of all machining residue.

3. Remove and install retaining clips, pin, and roller.

NOTE: Pin is a press fit in rocker arm.

a. Pin and roller disassembly.

i. Remove outer retaining clip by grinding end of pin flush to the retaining ring.

NOTE: Use care not to nick rocker arm with grinding wheel. A nick could cause a stress riser leading to rocker arm failure.

ii. Press old pin from rocker to remove roller. As illustrated in Picture 2.

b. Pin and roller assembly

i. Position new roller in fork of rocker.

ii. Press new pin into place using arbor press or bench vise.

iii. Press retaining clip over end of pin and into grooves. A small piece of round steel stock with a hole and counter bore should be made and used for installation of the clip. One side of clip has a slightly rounded inside edge. Locate the rounded edge facing down towards pin. Align components carefully in arbor press before pressing retaining clip squarely onto end of pin.

NOTE: Clips are very brittle. Do not force clip over pin, or press on at an angle. Do not use a clip damaged in the installation process.

iv. Roller should move freely on pin after clips are installed.

NOTE: Apply assembly lube to bushings, pins, and rollers before installing rockers.