

Instruction 510-1294
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Installation Instructions:

S&S Compensator Bolt Kit

Fits 2009-2025 Big Twins (part number 560-0450)



When performance is the goal, hardware matters. The Compensator Bolt Kit is built for high-output Big Twins where failure isn't an option. This is more than just a bolt, it's a performance upgrade that protects your build.

Tools Needed:

- T-70 Torx bit
- Breaker bar
- Torque wrench capable of 175 ft-lbs
- Primary drive locking tool or wedge
- 3/16" hex key
- T-27 Torx bit
- T-40 Torx bit
- 5/8" wrench or socket
- Primary cover gasket
- Red threadlocker (Loctite 262 is commonly used)
- Primary chaincase fluid
- Drain pan
- Brake cleaner
- Wire brush for cleaning threads
- Clean rags

⚠ WARNING - do not install with impact wrench, over-torquing will cause damage to fastener.

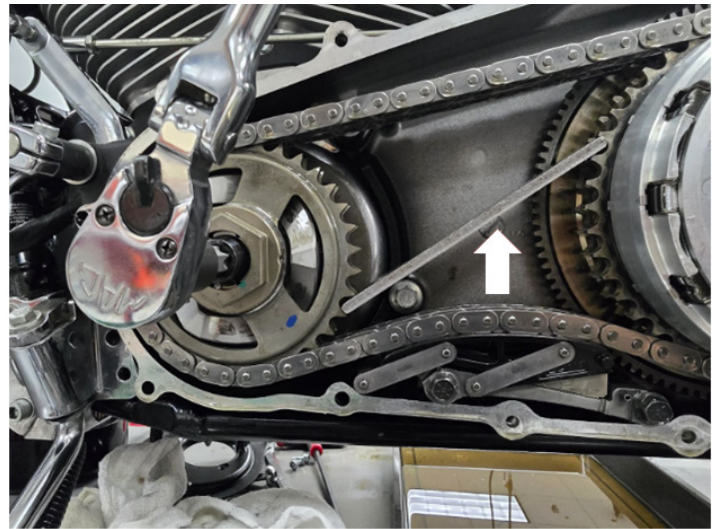
Removal

1. Prepare the motorcycle. Place the bike on a lift or stand with the transmission in neutral and the key in the "off" position. It is a good idea to remove the ground from the battery as well.
2. Drain the primary fluid. Position a drain pan under the primary chaincase. Remove the drain plug located on the bottom side of the primary cover and allow the fluid to drain completely.



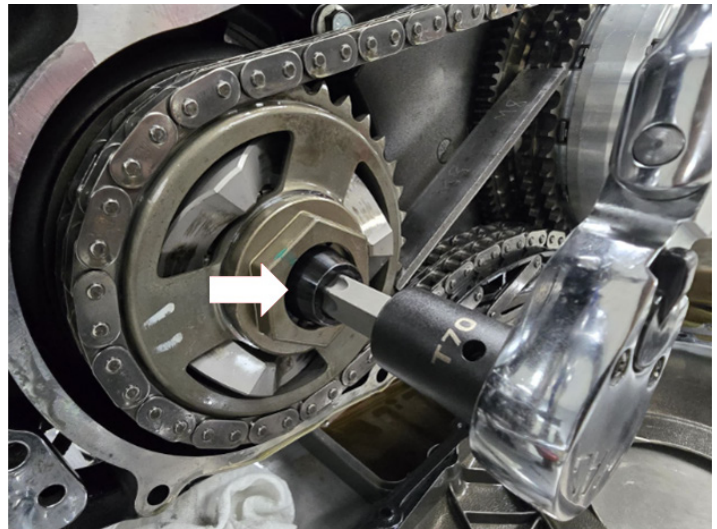
Picture 1

3. Remove the derby cover and the outer primary cover.
 - a. If necessary, remove any footrests or other components that interfere with cover removal.
 - b. Remove the fasteners around the perimeter of the derby cover and remove the derby cover.
 - c. Remove the fasteners around the perimeter of the primary cover and remove the primary cover.
4. Lock the primary drive.
 - a. Place a primary drive locking tool or a suitable wedge between the compensator sprocket and the clutch hub sprocket to prevent the assembly from rotating counter clockwise.



Picture 2

5. Remove the compensator bolt.
 - a. Use a breaker bar with a T-70 Torx bit to turn the compensator bolt counter-clockwise and remove it. This may require significant force.

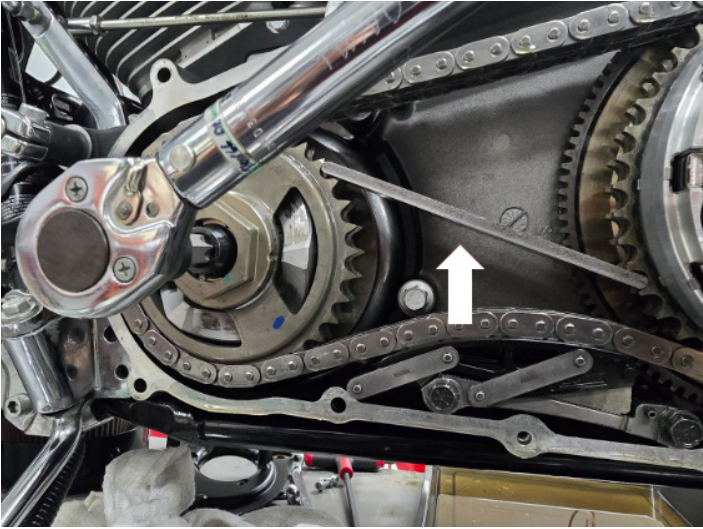


Picture 3

Installation:

1. Clean the components.
 - a. Thoroughly clean the threads on the crankshaft with brake cleaner and compressed air. A wire brush may be needed to remove the old threadlocker.
2. Remove the primary drive locking tool and reinstall it so that it prevents the compensator sprocket from rotating clockwise.

9. Complete reassembly. Reinstall any remaining components, like footrests.



Picture 4

3. Prepare the new S&S compensator bolt. Apply a few drops of red threadlocker (Loctite 262) to the threads of the new compensator bolt. Apply a thin film of new engine oil to the underside of the bolt head.
4. Thread the S&S compensator bolt in by hand till snug.
5. Begin the final torque sequence.
 - a. First torque: Tighten the compensator bolt to 100 ft-lbs.
 - b. Back off: Loosen the bolt by exactly one-half turn.
 - c. Final torque: Retorque the compensator bolt to the final specification of 175 ft-lbs.
6. Remove the primary drive locking tool from between the sprockets.
7. Reinstall the primary cover.
 - a. Ensure the primary cover mating surfaces are clean and install a new gasket if the old one was damaged.
 - b. Install the primary cover and tighten the fasteners to the correct torque specification.
8. Refill the primary fluid.
 - a. Reinstall the primary drain plug with a new O-ring (if needed) and torquing it to specification.
 - b. Add the correct amount and type of primary chaincase lubricant according to your manual.



Picture 4

Safety and Warranty Info:

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 name Indian® is used in reference only. S&S Cycle is not associated with Indian® and we in no way are implying that any of S&S Cycle's products are original equipment parts.

DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLE *Qualified Manufacturer Declared 49-State Federal Emissions Compliant Part on all 2020 to 2025 Indian Challenger and Pursuit models, and 2025 Chieftain PowerPlus and Roadmaster PowerPlus models

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.

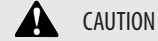
- Gasoline is extremely flammable and explosive under certain conditions and toxic when breathed. Do not smoke. Perform installation in a well ventilated area away from open flames or sparks.
- If motorcycle has been running, wait until engine and exhaust pipes have cooled down to avoid getting burned 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.



Means there is the possibility of injury to yourself or others.



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 twenty-four (24) 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 24 month warranty period or within 10 days thereafter. Some parts may additionally be covered under a provided emissions defects warranty.

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.

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