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Installation Instructions: Grand National 2-1 Exhaust System for Indian® Scout Models (4111-156/4111-266)

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 there with.

Exempt from emissions tampering regulations under CARB EO# K-010-38 for all 2015–2023 Indian® Scout Models

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.

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.

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.

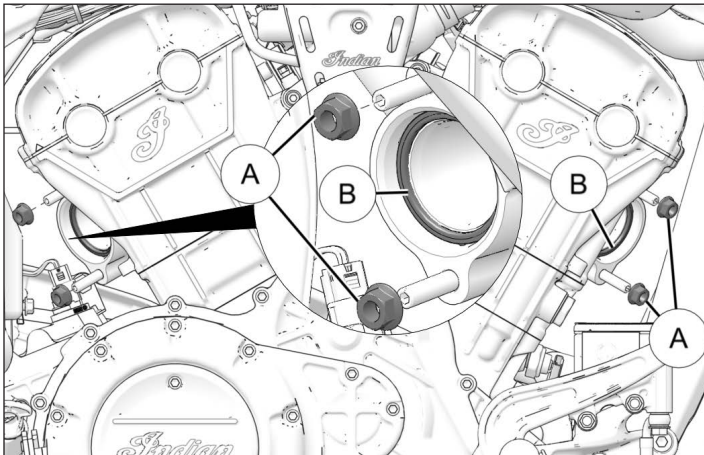
Tools Needed:

- Safety Glasses
- Cutting Tool/Utility Knife
- Digital Wrench™
- Flashlight
- Hammer, Soft Face
- Socket Set, Hex Bit, Metric
- Socket Set, Metric
- Socket Set, Torx® Bit
- Torque Wrench
- VehicleLift/Support Equipment
- Cloth, Non-Abrasive (Cheesecloth or equivalent)

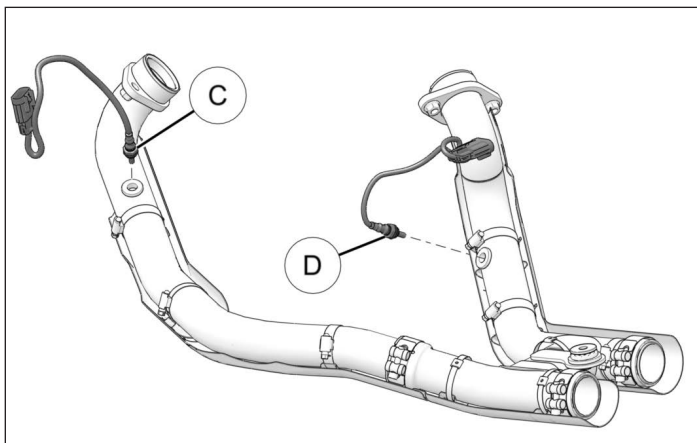
Procedure:

NOTE - Please read the installation instructions thoroughly before beginning. Installation is easier if the vehicle is clean and free of debris. For your safety, and to ensure a satisfactory installation, perform all installation steps correctly in the sequence shown.

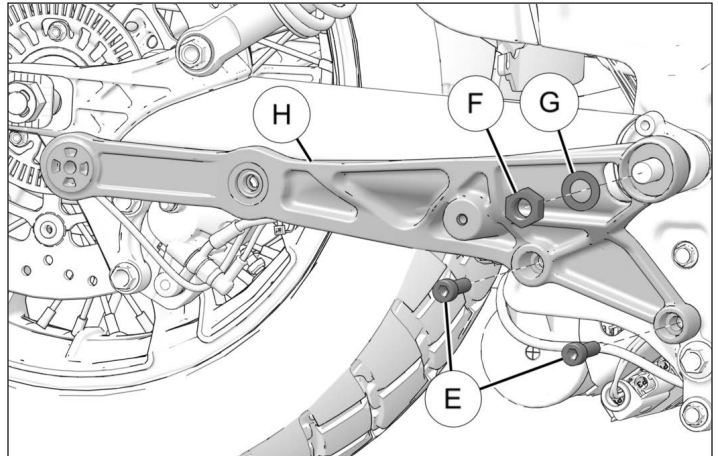
1. Support motorcycle securely in an upright position. Clamp front tire securely in a wheel vise.
2. Turn key or ignition switch to "OFF" position and remove key. If equipped with keyless fob, remove fob from proximity of vehicle.
3. Remove stock Muffler and Head Pipe from motorcycle as per service manual.
4. Retain four exhaust header nuts (A) and discard two gaskets (B).



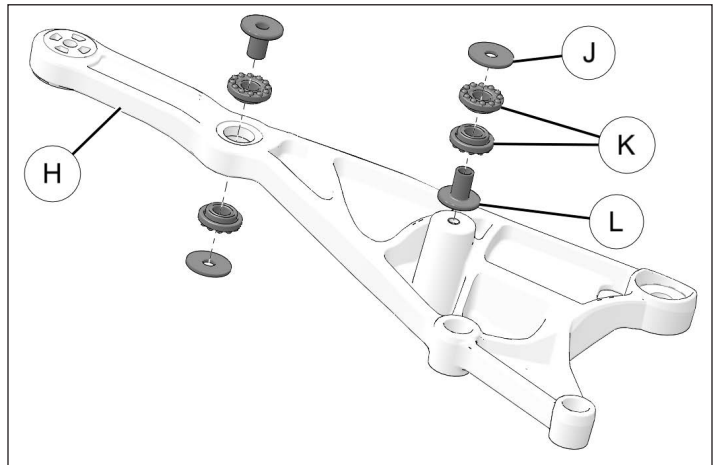
5. Make note of allocation of front and rear Oxygen Sensors. Carefully remove and retain front (C) and rear (D) Oxygen Sensors.



6. Remove and retain two screws (E), one nut (F) and one washer (G) from stock muffler mount (H). Remove stock muffler mount (H) and set aside.

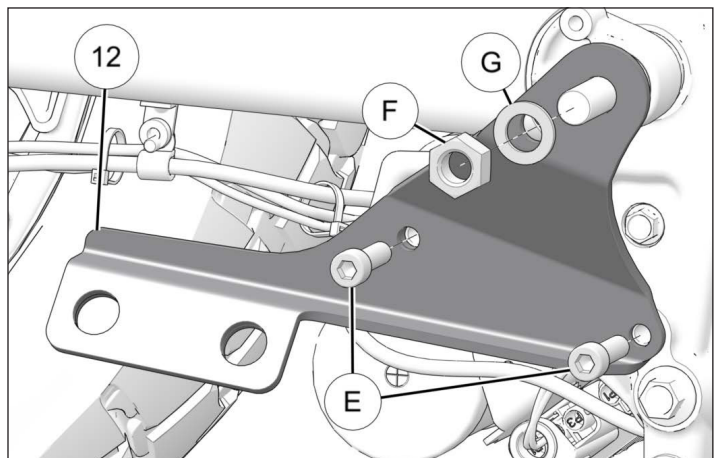


7. Remove and retain two washers (J), four rubber grommets (K) and two sleeve washers (L) from stock muffler mount (H).

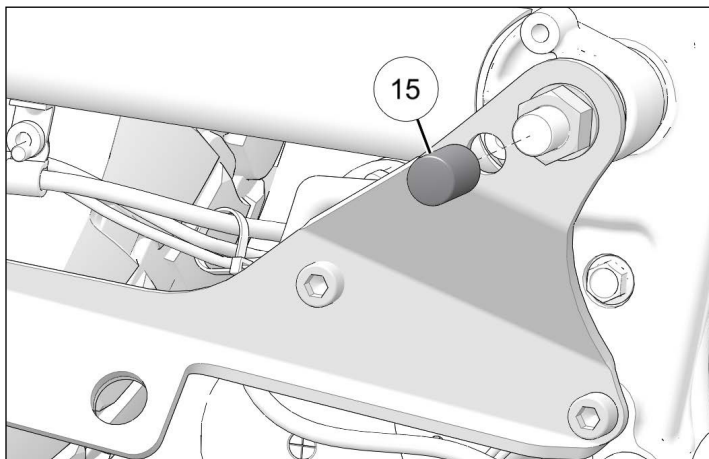


Mounting Bracket Installation

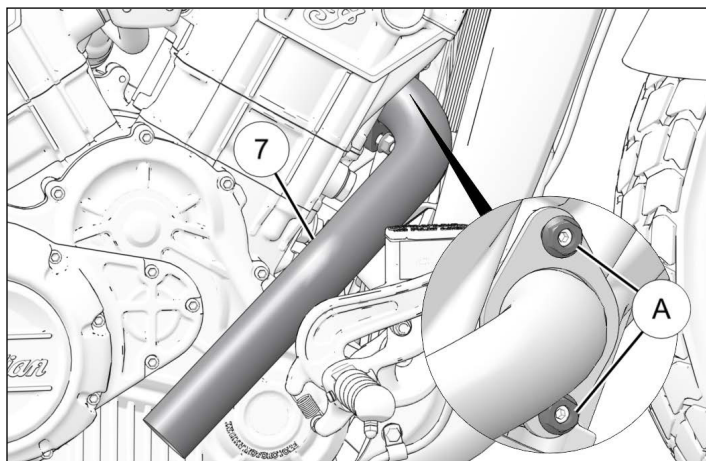
1. Install new Mounting Bracket (D) to frame using retained screws (E), nut (F), and washer (G). Torque fasteners to specification.



2. Install Swing Arm Cap (15) onto threaded end of exposed stud.

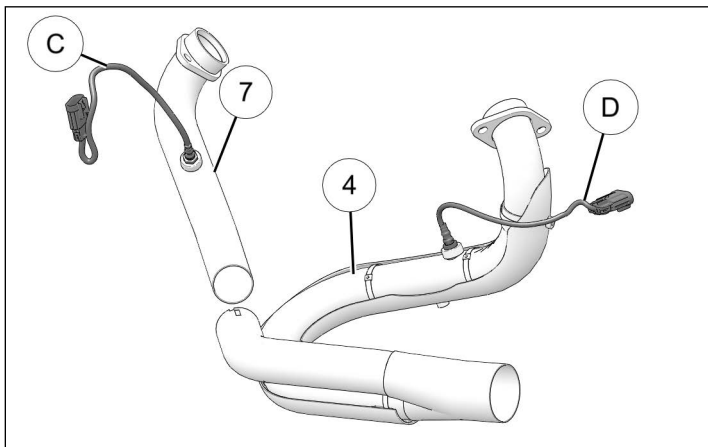


3. Loosely install front exhaust header (7) using two retained nuts (A). DO NOT tighten fasteners at this time. Ensure Oxygen Sensor wiring is routed back to connector.

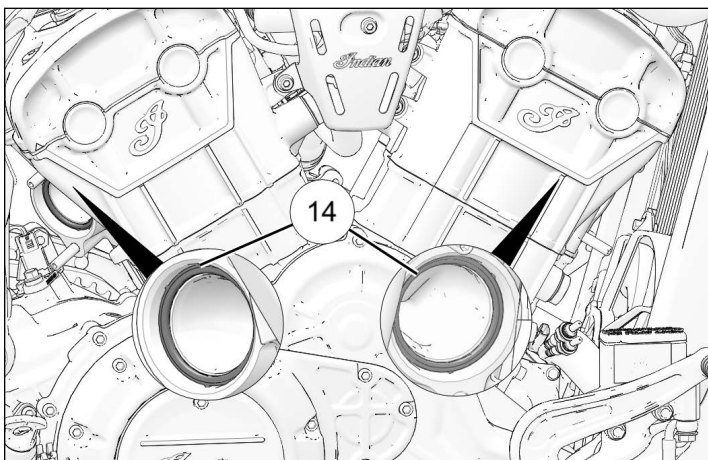


Exhaust Header Installation

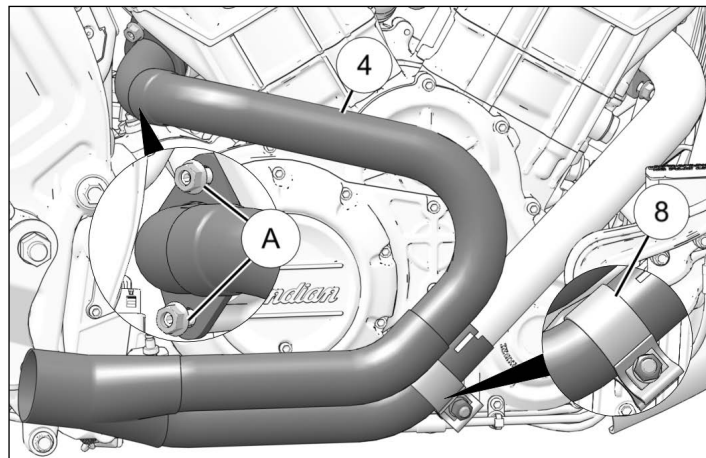
1. Loosely install front (C) and rear (D) retained Oxygen Sensors into front (7) and rear (4) header pipes.



2. Install new exhaust header gaskets (14).

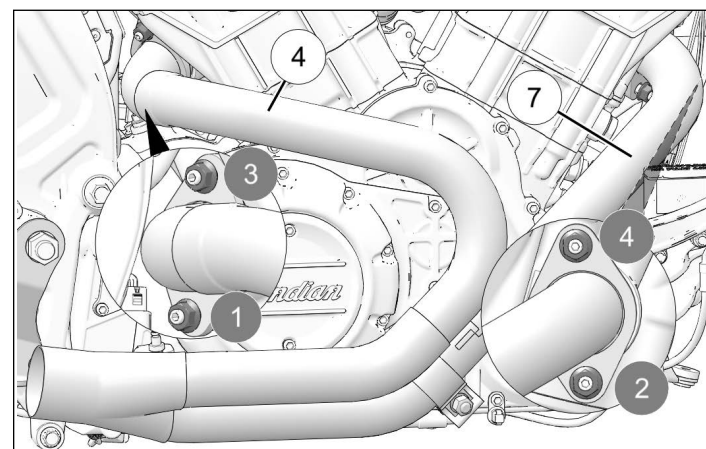


4. Slide clamp (8) onto rear header (4) with nut facing down and outward as shown. Insert front header pipe into rear header pipe opening and slide rear header into place. Loosely install rear exhaust header using two retained nuts (A). Ensure Oxygen Sensor wiring is routed back to connector.



5. Snug down (DO NOT torque) front (7) and rear (4) exhaust header nuts in order:

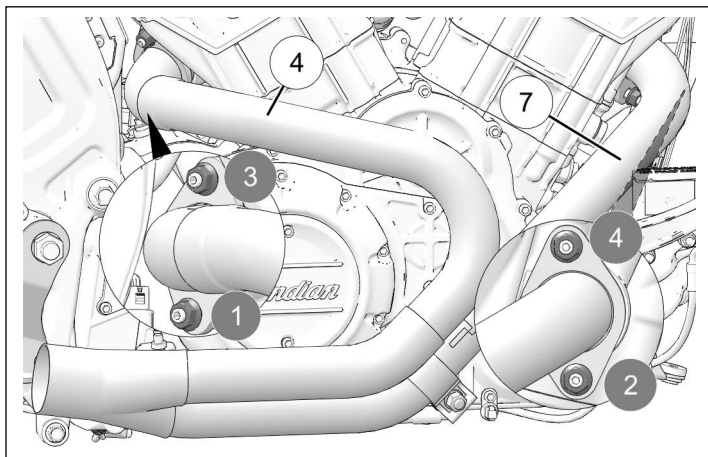
- ① Rear Lower
- ② Front Lower
- ③ Rear Upper
- ④ Front Upper



- Torque exhaust header nuts to specification in same order as previous step.

Torque Specifications

Exhaust Header Nuts: 12 ft-lbs (16 N·m)



- Torque Oxygen Sensors to specification.

Torque Specifications

Oxygen Sensors: 14 ft-lbs (19 N·m)

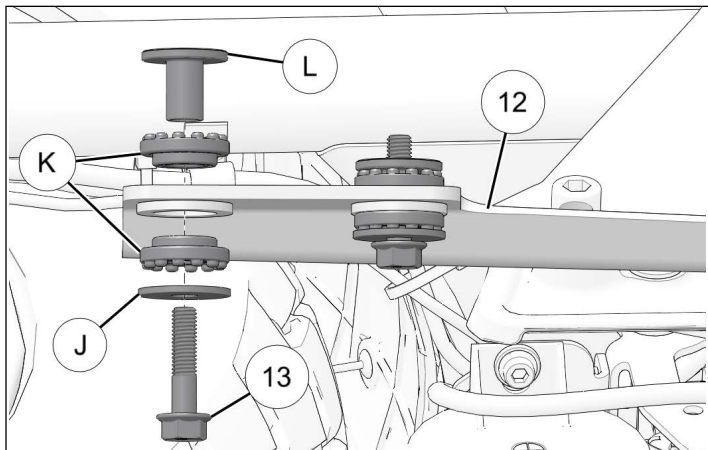
- Torque clamp ⑧ to specification.

Torque Specifications

Muffler Clamp ⑧: 40 ft-lbs (54 N·m)

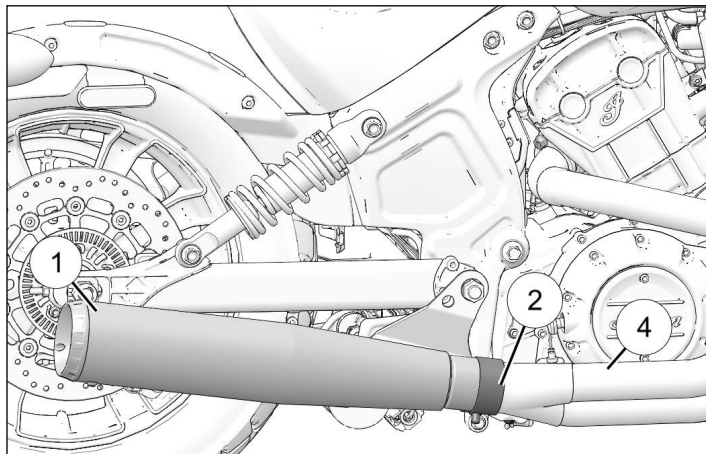
Muffler Installation

- Stack two screws ⑬, two washers ①, and two rubber grommets ②. Install each stack through mounting bracket ④, one more rubber grommet ② and one sleeve ③ into threaded hole in muffler ①. DO NOT torque fasteners at this time.



- Slide muffler clamp ② onto muffler assembly ① and slide muffler assembly ① onto rear header ④.

DO NOT tighten clamp at this time.



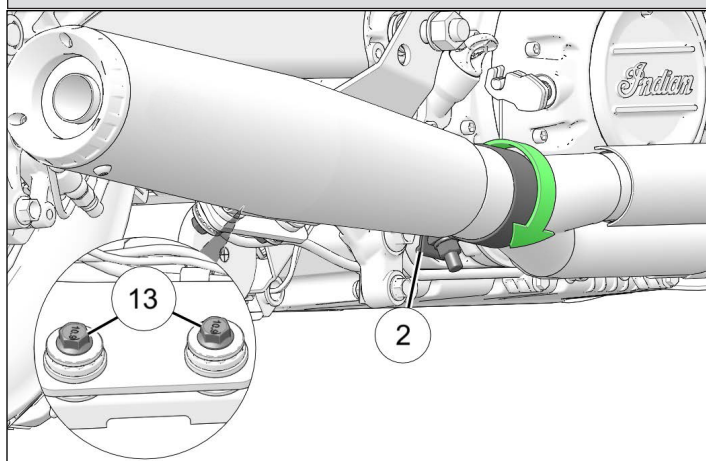
- Align muffler assembly, rotate muffler clamp ② away from ground and torque clamp ② and mounting bracket screws ⑬ specifications.

Torque Specifications

Muffler Clamp ②: 40 ft-lbs (54 N·m)

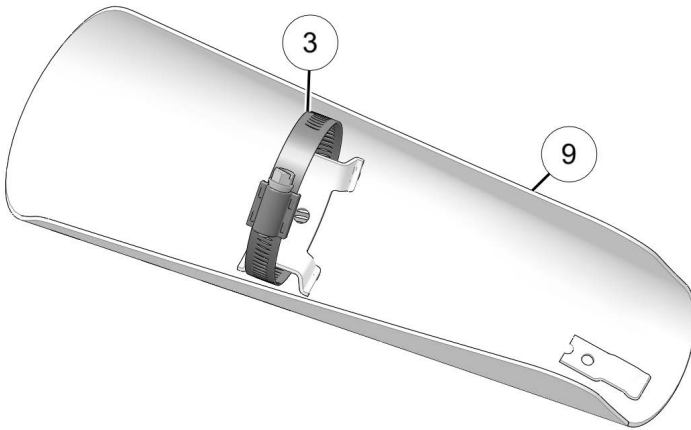
Torque Specifications

Mounting Bracket Screws ⑬: 18 ft-lbs (24 N·m)



Heat Shield Installation

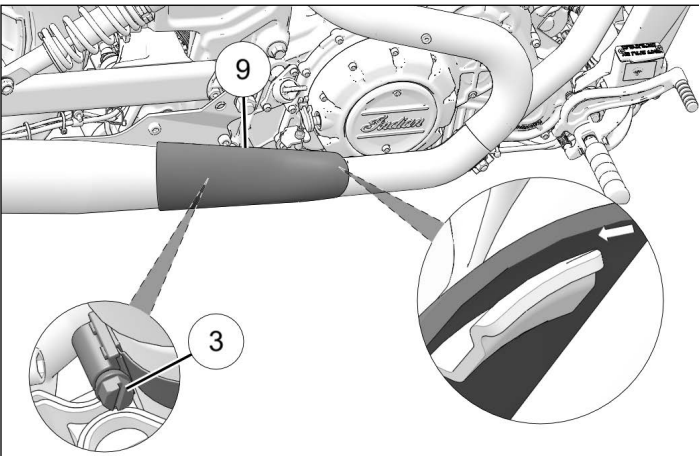
1. Open up and Insert clamp ③ into slot on collector heat shield ⑨ in orientation shown.



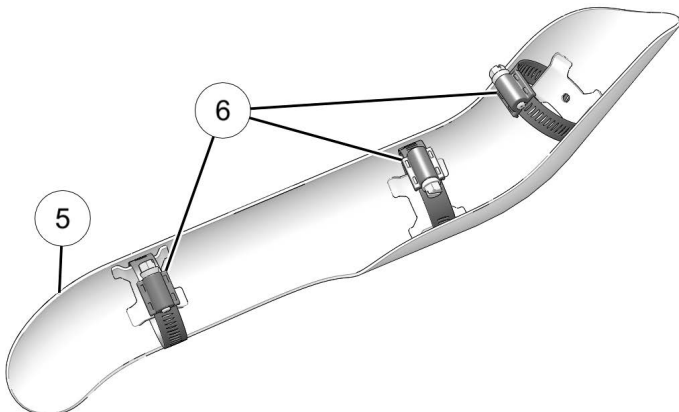
2. Install collector heat shield ⑥ by first inserting tab (shown with inset) under rear edge of installed heat shield, then securing with clamp ③. Torque clamp screw to specification.

Torque Specifications

Exhaust Clamp ③ : 27 in-lbs (3 N·m)



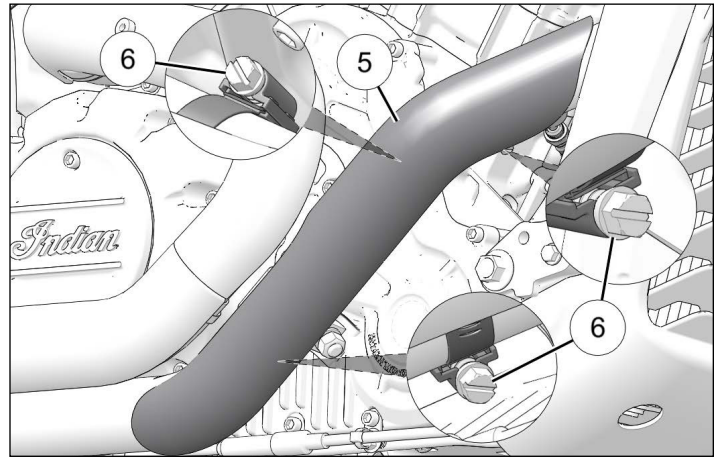
3. Insert three clamps ⑥ into slots on front lower heat shield ⑤ in orientation shown.



4. Install lower front heat shield ⑤ in place and secure with three clamps ⑥. Torque clamps to specification.

Torque Specifications

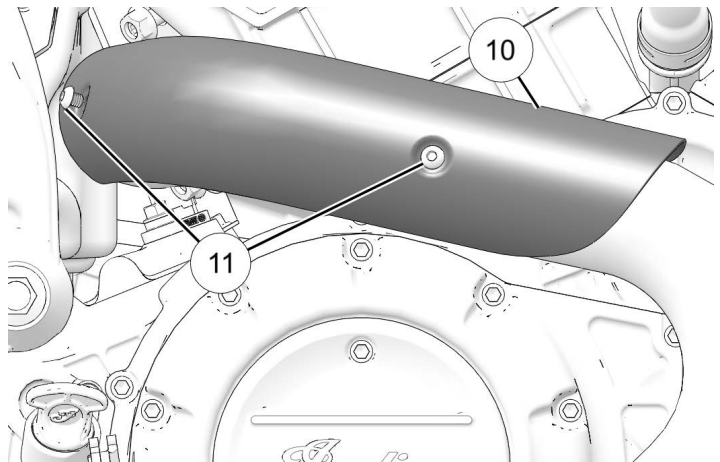
Exhaust Clamp ⑥ : 27 in-lbs (3 N·m)

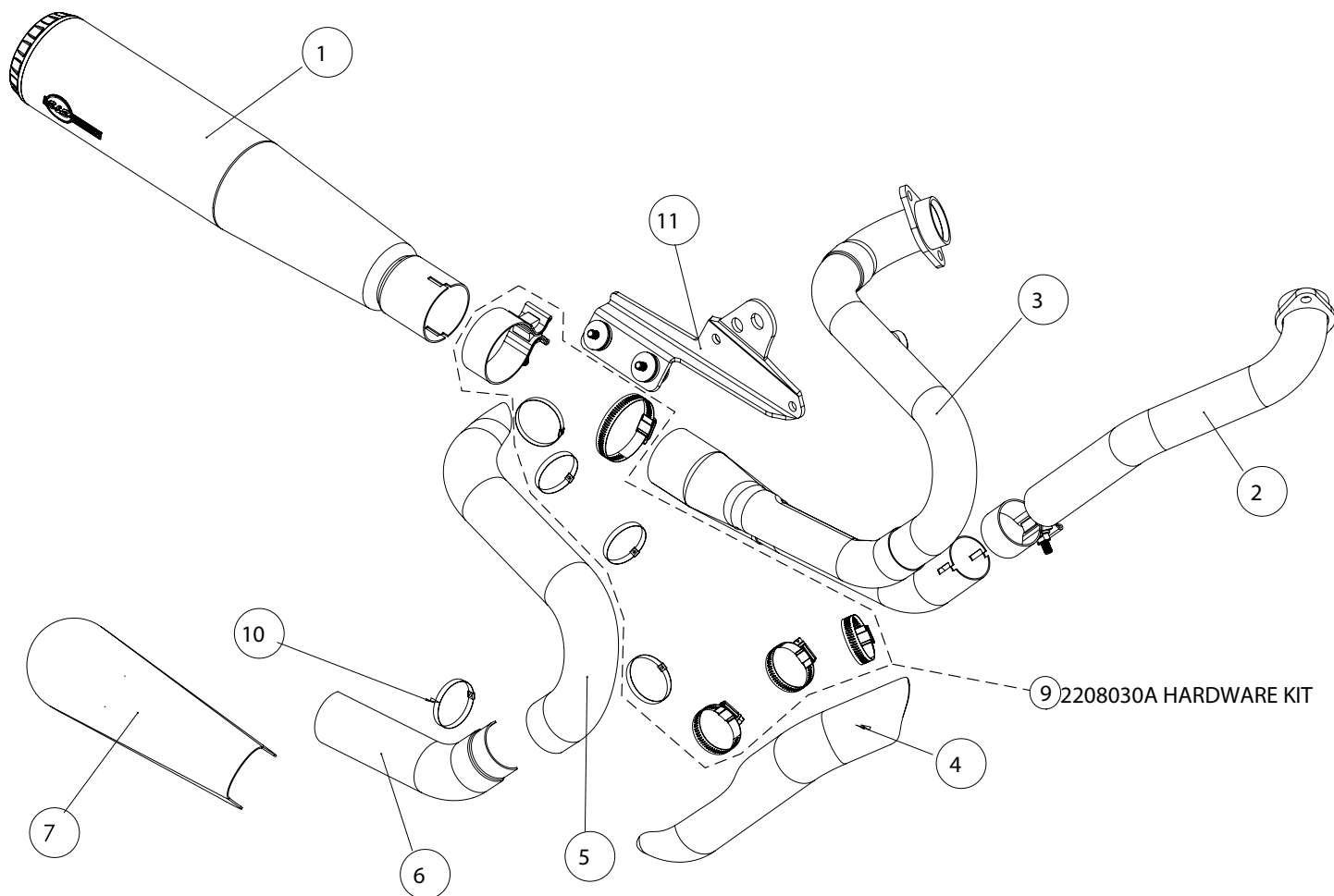


5. Install rear heat shield ⑩ to secondary pipe, secure heat shield with two screws ⑪. Torque screws to specification.

Torque Specifications

Rear heat shield screw ⑪ : 84 in-lbs (9.5 N·m)





ITEM #	PART NUMBER	DESCRIPTION	QTY
1	551-0954A	MUFFLER, ASSEMBLY, 49 STATE, 2 INTO 1, 4", BLACK SHELL, INDIAN® SCOUT®	1
2	551-0966	HEADER, FRONT, 2 INTO 1, STAINLESS STEEL, INDIAN® SCOUT®	1
3	551-0952	HEADER, ASSEMBLY, 2 INTO 1, WELDMENT, INDIAN® SCOUT®	1
4	551-0957A	HEAT SHIELD, FRONT, BLACK, INDIAN® SCOUT®	1
5	551-0959A	HEAT SHIELD, REAR, BLACK, INDIAN® SCOUT®	1
6	551-1104A	HEAT SHIELD, REAR, LOWER, BLACK, INDIAN® SCOUT®	1
7	551-0961A	HEAT SHIELD, COLLECTOR, BLACK, INDIAN® SCOUT®	1
9	2208030A	HARDWARE KIT, 2 INTO 1, INDIAN®, SCOUT®	1
10	551-1009	CLAMP, CABLE TIE, .25" X .015" X 10", STAINLESS STEEL	5
11	551-1029	BRACKET, MOUNT, MUFFLER, POWDERCOATED, BLACK, 2 INTO 1, INDIAN® SCOUT®	1

EMISSIONS DEFECTS WARRANTY

The following is an explanation of the emission defects warranty on your new catalyst exhaust system or component. New aftermarket catalyst equipped exhaust components or systems must be designed, built, and equipped to meet stringent emissions standards. S&S must warrant the aftermarket catalyst equipped exhaust components or systems to meet these applicable requirements for the period of time listed below, provided there has been no abuse, neglect, or improper modification of your engine.

EMISSIONS DEFECTS WARRANTY COVERAGE

If this S&S aftermarket catalyst equipped exhaust is installed on a motorcycle within four years of the date that the motorcycle was first acquired by an ultimate purchaser, the emission defects warranty period is five (5) years or 30,000 kilometers (18,641 miles), whichever first occurs.

If this S&S aftermarket catalyst equipped exhaust is installed on a motorcycle more than four years after the date that the motorcycle was first acquired by an ultimate purchaser, the emissions defects warranty period is three (3) years or 15,000 kilometers (9,321 miles), whichever first occurs.

If an emission critical part on your exhaust has been deemed by S&S to be defective, or have damaged an original part of the motorcycle, the part will be repaired or replaced by S&S. This is your EMISSIONS DEFECTS WARRANTY.

WHAT IS COVERED BY THIS EMISSION DEFECTS WARRANTY

The Emission Defects Warranty covers the following "warranted parts" only:

- Original equipment of the exhaust system or component purchased (void if tampered with or not in the original equipment configuration)
- If used on the above: clamps, tubing, sealing gaskets, and mounting hardware.

WHAT IS NOT COVERED BY THIS EMISSION DEFECTS WARRANTY

The following items are not covered by the S&S Cycle, Inc. Emission Defects Warranty:

- Malfunctions in any "warranted parts" caused by any of the following: abuse, misuse, unapproved modification or alteration, tampering, disconnection, or improper maintenance.
- Malfunctions when used with an engine that has been rendered emission non-compliant.
- Discoloration or other cosmetic defects.
- Repairs improperly performed or replacements improperly installed.
- Use in competitive racing or related events.
- Damage resulting from accident, acts of nature, or other events beyond the control of S&S.
- Repairs and services performed by anyone other than an authorized S&S dealer (except in the case of emergency as defined above).
- Loss of time, inconvenience, loss of use of the engine and donor vehicle, towing of the vehicle, or commercial loss and/or consequential damages.

OWNER'S WARRANTY RESPONSIBILITIES

You are responsible for ensuring instructions on the included warranty card are followed and the requested information is returned to S&S. Failure to provide this information could result in a delay of warranty coverage. S&S recommends that you retain all receipts covering purchase and installation of your catalyst equipped exhaust component.

You are responsible for presenting your motorcycle to an S&S dealer as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

You should be aware that S&S may deny your warranty coverage if a part has failed due to abuse, neglect, or unapproved modifications to the exhaust or engine.

If you have any questions regarding your warranty rights and responsibilities, you should contact S&S Cycle, Inc., 14025 Cty Hwy G, Viola, WI 54664 or the California Air Resources Board, P.O. Box 8001, 9528 Telstar Avenue, El Monte CA, 91734-8001

ADDITIONAL WARRANTY TERMS

The warranty period begins on the date the exhaust is delivered to the ultimate purchaser, or on the date it is first installed.

S&S recommends that you go only to an authorized S&S dealer for repairs under this warranty. He/she has factory-trained mechanics and genuine S&S parts. However, in the case of an "emergency" (as define below), you could have repairs performed at any available service establishment or by the owner. An authorized S&S dealer not being reasonably available, or a part not being available within a reasonable time period (not to exceed 30 days from the time the motorcycle is initially presented to an S&S dealer for repair) constitutes an emergency. S&S will reimburse the owner for such repairs, including diagnosis, only if it is established that the repairs are covered under this emission warranty. S&S's parts reimbursement, however, will not exceed our suggested retail price for all warranted parts replaced and our labor reimbursement will be limited to our recommended time allowances for emission system repairs at the geographically appropriate hourly labor rate. To obtain reimbursement from S&S for such emergency repairs, you must keep all failed parts and original receipts, so you can present them to an authorized S&S dealer for his inspection. S&S recommends that you bring your vehicle to an authorized dealer for inspection to ensure that the emergency repairs were done properly.

The use of non-S&S replacement or approved aftermarket parts does not invalidate the existing warranty, if any, on this or other S&S components unless the non-S&S parts cause damage to warranted parts or result in the creation of an emission non-compliant vehicle. However, S&S ASSUMES NO LIABILITY UNDER THIS WARRANTY WITH RESPECT TO ANY PARTS WHICH ARE NOT GENUINE S&S PARTS, unless genuine S&S parts cause damage to non-genuine S&S parts.