

Installation Instruction 1/2

Parts#:TA006-001 For S&S Performance Clutches

Read and become familiar with these installation instructions before start.

Contents:

Short bolt	x 6	Spring retainer	x 6
Small washer	x 6	Shim:0.020"(0.5mm)	x 6
Lock up head	x 1	Shim: 0.040"(1.0mm)	x 12
Lever Shim	x 1	Stainless Long bolt	x 2

WARNING: To prevent accidental vehicle start-up, which could cause serious injury, disconnect negative(-) battery cable before proceeding.

Note: This kit requires to use the 3/8" thick derby cover spacer (#AM004-005) with H-D stock derby cover on '99 to '06 Big Twin (except '06 Dyna) at least for clearance issue. Non-stock derby cover (including '03 Anniversary cover) and 3 holes derby cover may require thicker derby cover spacer.

1. Remove the derby cover and primary cover.
2. Remove the six bolts and clutch springs the S&S clutch.
3. **See Picture 1.** Place the lever shim on the pressure plate.
4. **See Picture 2.** Place the six short bolts and washers and six spring retainers on the lock up head as shown in Picture.

Note: The step side is facing to the clutch.

5. **Note: Make sure** the lever shim is not binding between spring retainers and pressure plate.

Do not install the clutch springs at this time.

Install the lock up head on the clutch. Tighten the six short bolts until bolts completely seating with 5mm allen wrench.

6. **See Picture 3.** Measure the clearance between the lever shim and lock up head. The clearance should be 0.157"(4.0mm) to 0.177"(4.5mm). If the clearance is not in the spec, select shims to create spec clearance and install them between the lock up head and spring retainer.

Reference: We suggest to use the 11/64" (0.172") drill bit to measure the clearance.

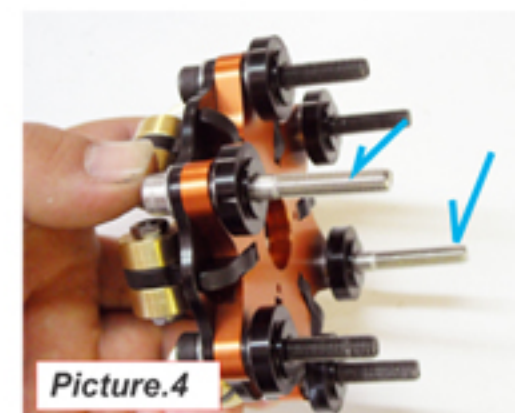
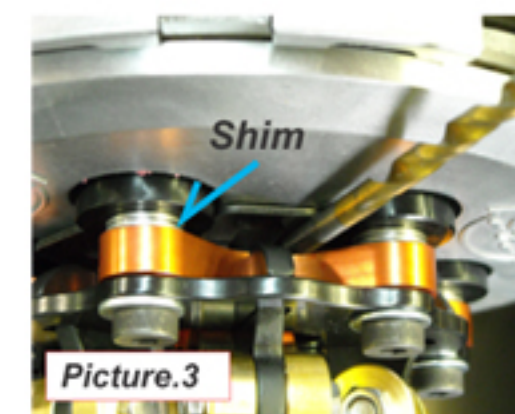
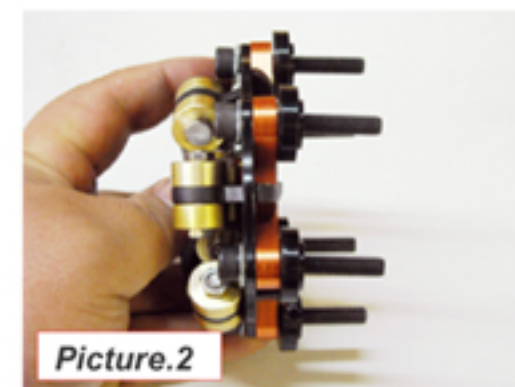
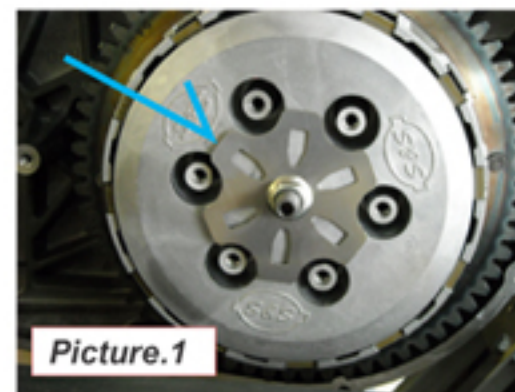
7. Install the six clutch springs on the clutch.

8. **Note: Do not** apply Locktite to the two long bolts.

See Picture 4. Use the two long stainless bolts as a spring compression tool. Change two short bolts to two long stainless bolts. Apply Locktite(Blue) to the four short bolts.

9. **Note: Do not** tighten the two Stainless long bolts all the way in to avoid damaging the threaded bosses on clutch hub.

Install the lock up head. Tighten the two Stainless long bolts with 5mm allen wrench until four short bolts reach to the treaded bosses on clutch hub.



Installation Instruction 2/2

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10. **Note:** Don not tighten the only one bolt all the way in to avoid damaging the lock up head, Carefully tighten the short bolts little by little.

Do not tighten the bolts all the way in at this time. Tighten the four short bolts little by little.

11. **Note:** Make sure the spring retainers and shims are in place.

See Picture 5. Remove the two stainless long bolts and install the two short bolts to the lock up head with Loctite.

12. **Note:** Don not tighten the only one bolt all the way in to avoid damaging the lock up head, Carefully tighten the short bolts little by little.

Make sure the lever shim is not binding between spring retainers and pressure plate when you tighten the bolts.

See Picture 6. Tighten the six short bolts little by little to 9-10 ft-lbs.

13. Run the clutch adjustment screw in until it lightly bottoms out. Back it off between 1/2 and 3/4 of a turn.

14. **Note:** Make sure the lever shim is not binding between the lock nut and pressure plate.

See Picture 7,8. Hold the clutch adjustment screw with long allen wrench and run the lock nut in with 14mm deep socket by hand until it is seat on the pressure plate. then tighten the lock nut.

15. Adjust the clutch cable to provide 1/8" to 3/16" of free play at the clutch lever.

16. Install the primary cover and fill up the primary oil. See the Harley-David service manual.

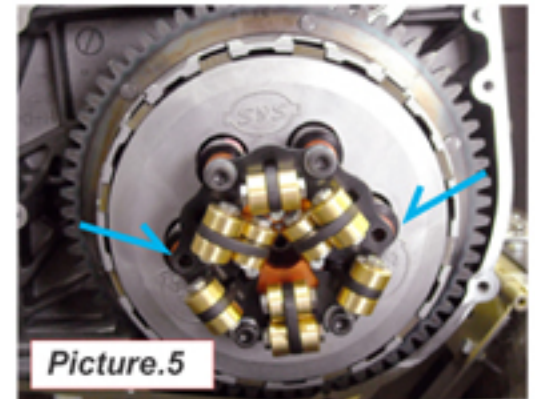
17. **Note:** H-D stock derby cover on '99 to '06 Big Twin (except '06 Dyna) require the 3/8" thick derby cover spacer (#AM004-005) for clearance issue. Non-stock derby cover (including '03 Anniversary cover) and 3 holes derby cover may require thicker derby cover spacer.

Check the clearance between Lock up head and derbycover with clay before install the derby cover.

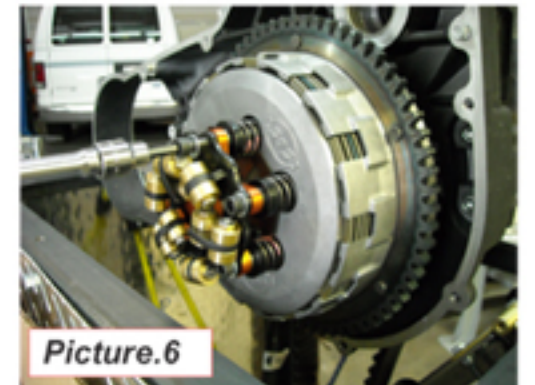
18. Cut inside of the stock gasket with scissors or use our derby cover gasket (#AM003-001).

Note: Requires two derbycover gaskets when you use a derby cover spacer.

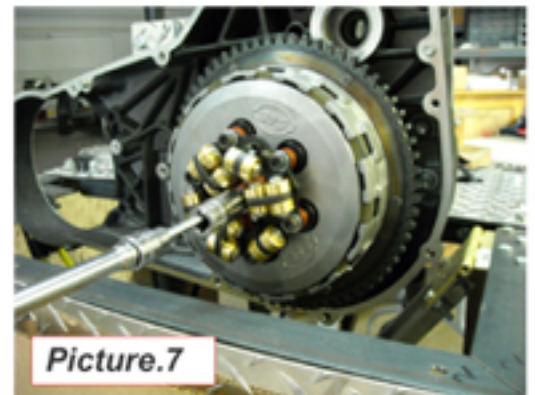
19. **See Picture 9.** Install the derby cover and derby cover spacer(if it is necessary.).



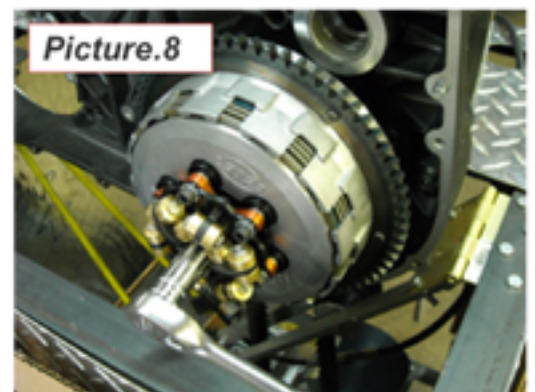
Picture.5



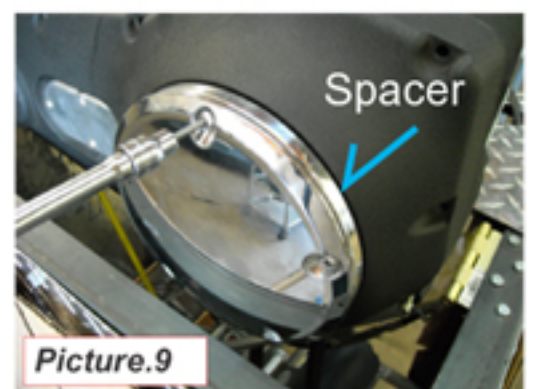
Picture.6



Picture.7



Picture.8



Picture.9

Optional Parts

Derby Cover Spacers



Make enough clearance between a Lock up head and a non-stock derby cover with a derby cover spacer.

For '99 and later Big Twin (5 holes)

#AM004-001	1/8" thickness	\$30
#AM004-002	1/4" thickness	\$35
#AM004-003	3/8" thickness	\$40
#AM004-003	1/2" thickness	\$45

For '70 to '98 Big Twin (3 holes)

#AM004-004	1/4" thickness	\$35
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Spring shims



Use for fine static pressure adjustment.

#PTA003-002	Spring shims (Q.18)	\$18
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Derby Cover Gasket



Aluminum core



Paper w/Bead

For '99 and later Big Twin Models

#AM003-001	Aluminum core	\$10
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For '70 to '98 Big Twin Models

#AM003-003	Paper w/Bead	\$10
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