



Advanced Innovative Machinery

AIM Corp. PERFORMANCE PRODUCTS

• Gen. 2 - CF2 Performance Clutch kit (Inner Kit)

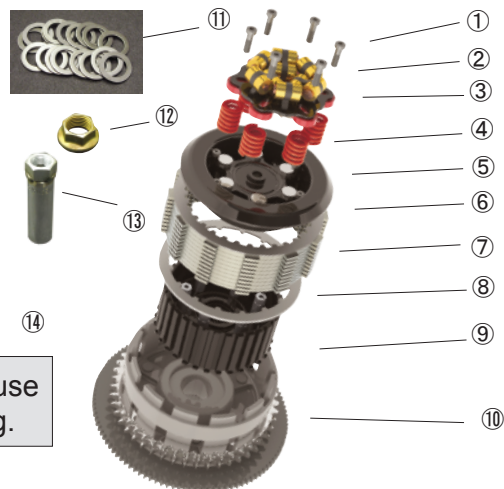
Installation Instruction 1/2

Parts#:TA008-003 For '06 Dyna and '07 and later Big Twin

Read and become familiar with these installation instructions before start.

Contents:

① 5mm allen head bolt	6	⑧ Steel plate (3mm)	1
② Small washer	6	⑨ Clutch hub	1
③ Lock up head	0	⑩ Billet clutch basket (NA)	1
④ Static spring	6	⑪ Spring shims (no needed for black spring)	18
⑤ CF Pressure plate	1	⑫ Clutch adjuster lock nut	1
⑥ Steel plate (1.5mm)	8	⑬ Lock nut socket	1
⑦ 10 Friction plates package	7		

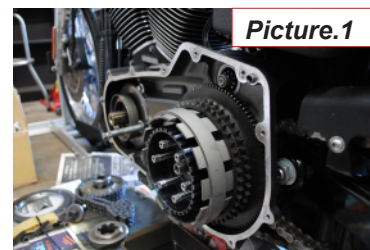


WARNING: To prevent accidental vehicle start-up, which could cause serious injury, disconnect negative(-) battery cable before proceeding.

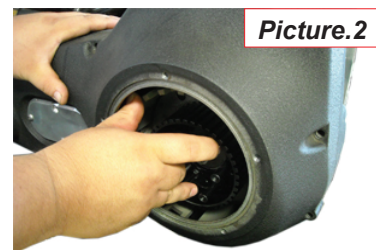
1. Submerge and soak all friction plates in HD petroleum based oil or ATF type F, non-synthetic primary oil. **The use of synthetics is not recommended as they tend to cause slippage.**
2. Remove clutch assembly. See Harley-Davidson service manual.
3. **See Picture. 1 and 2.** Place the Clutch basket and the primary cover into position.
4. **See Picture. 2.** Rotate the clutch basket by hand to check the clearance between the clutch basket and the primary cover. If the clutch basket hits the primary cover, you need to modify the primary cover.
5. Place drive components (primary chain, compensating sprocket assembly and clutch basket into position.
6. Clean and prime threads of the compensating sprocket bolt(or nut) and the clutch hub main shaft nut. Apply Locktite (red) to them.

Note: Clutch hub mainshaft nut has **left hand threads**, so turn counterclockwise to install.

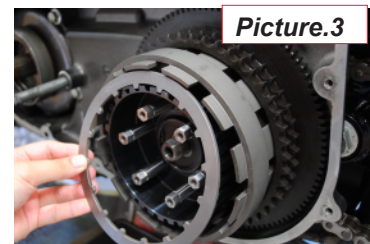
7. Tighten the compensating sprocket bolt and the clutch hub main shaft nut. See Harley-Davidson service manual about torque.
8. **See Picture. 3** Install the 3mm steel plate⑧ on the clutch hub.
9. Then, install a friction plate ⑦ and then a steel plate (1.5mm) ⑥ on the clutch hub. Install ten remaining friction plates and nine remaining steel plates in same manner, alternating between friction plates and steel plates. Ending with friction plate on the top.
10. **See Picture. 4.** Place the AIM 1.5 mm steel plate on the Top of the clutch plates kit.



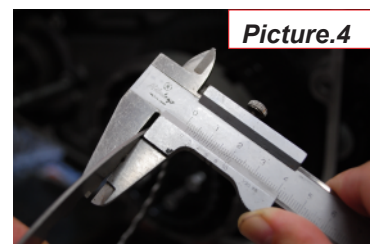
Picture.1



Picture.2



Picture.3



Picture.4



Advanced Innovative Machinery

AIM Corp. PERFORMANCE PRODUCTS

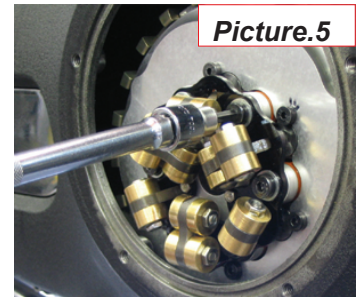
• Gen. 2 - CF2 Performance Clutch kit (Inner Kit)

Installation Instruction 2/2

Parts#:TA008-003 For '06 Dyna and '07 and later Big Twin

11. **See Picture. 5.** Install the Lock up head③ on clutch hub. Use the provided bolts① and washers②, tighten little by little with a 5mm allen wrench to 9-10 ft-lbs.

Caution: Don not tighten the only one bolt all the way in to avoid damaging the lock up head, Carefully tighten 5mm allen head bolts little by little.



Picture.5

12. Use the stock clutch adjuster screw and special lock nut ⑫ in the kit to adjust the clutch. Tighten the screw in until it gently bottoms out then back it out 1/2 to 1 turn.

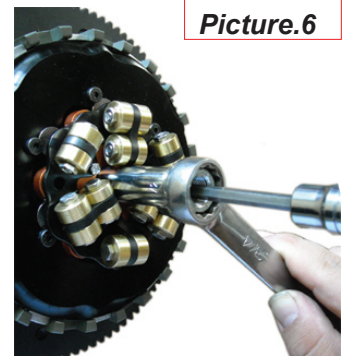
13. **See Picture. 6.** Use the special lock nut socket ⑬ to tighten the lock nut.

14. Adjust the clutch cable. Ensure free play of 1/8in or more at the clutch lever pivot between the clutch holder and lever without pulling the cable.

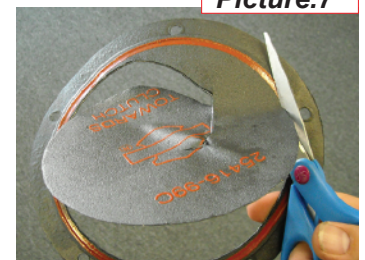
15. **See Picture. 7.** Cut the stock gasket with scissors or use our derby cover gasket (#AM003-001).

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

Caution: H-D stock derby cover on '99 to '06 Big Twin (except '06 Dyna) require the 1/8" thick derby cover spacer (#AM004-001) for clearance issue. Non-stock derby cover (including '03 Anniversary cover) and 3 holes derby cover may require thicker derby cover spacer.



Picture.6



Picture.7

17. Install primary cover, primary chain tensioner and fill with lubricant. See Harley-Davidson service manual.

				Spring setup height (mm)							
				25							
	Free length (mm)	Spring Rate (kgf/mm)	Coil bind (mm)	0		1		2		3	
				1	6	1	6	1	6	1	6
SWS21-35	35	3.07	17.5	67.6	405.7	74.4	446.3	81.1	486.9	87.9	527.4
Capacity for the Engine				175 ft lbs		188 ft lbs		202.3 ft lbs		225.8 ft lbs	