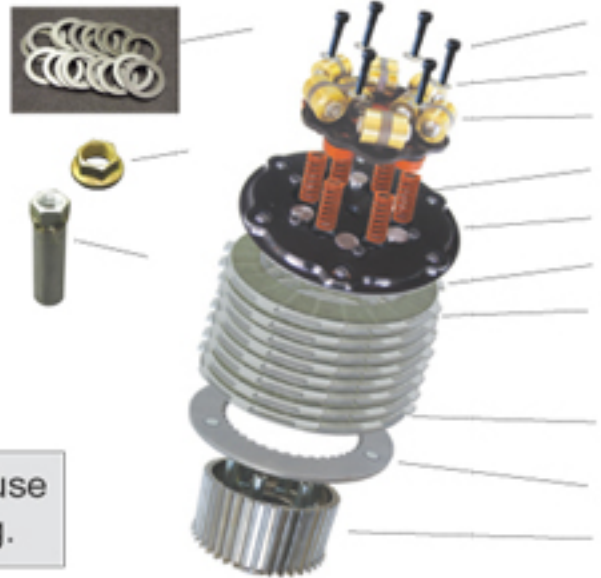


Installation Instruction 1/3

Read and become familiar with these installation

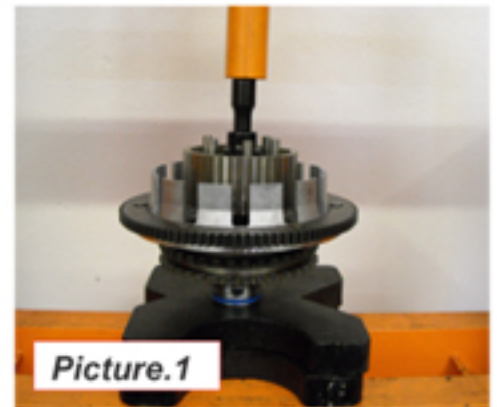
Contents:

5mm allen head bolt	6	teel plate (Plain)	1
Small washer	6	Judder prevention plate	1
Lock up head	1	Clutch hub	1
Static spring (Medium, Ivory)	6	Spring shim	1
CF Pressure plate	1	Clutch adjuster lock nut	18
Friction plate	8	Lock nut socket	1
Steel plate (Cutout)	7		

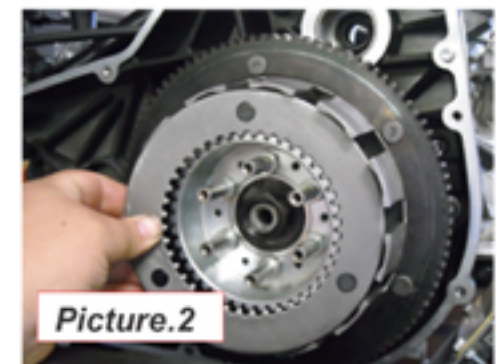


WARNING: To prevent accidental vehicle start-up, which could cause serious injury, disconnect negative(-) battery cable before proceeding.

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 and press a stock hub from bearing in clutch shell. See Harley-Davidson service manual.
3. Replace the clutch bearing. See Harley-Davidson service manual.
4. **See Picture. 1. Caution:** "Be sure that bearing inner race is supported with sleeve on transmission side." Press Clutch hub in the kit into bearing until shoulder contacts bearing inner race.
5. Turn assembly over so that the transmission side is up. Install retaining ring in groove of clutch hub.
6. Place drive components (primary chain, compensating sprocket assembly and clutch basket into position.
7. 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 handed threads**, so turn counterclockwise to install.

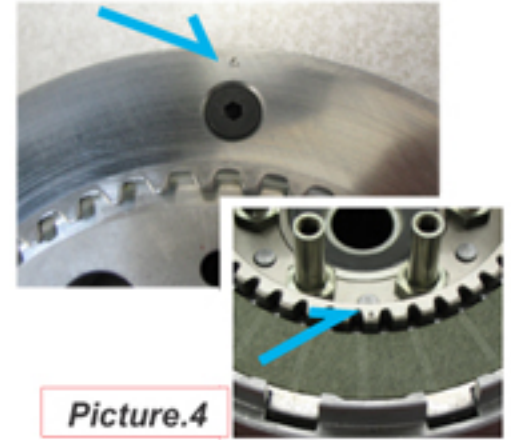


8. Tighten the compensating sprocket bolt and the clutch hub main shaft nut. See Harley-Davidson service manual about torque.
9. **See Picture. 2.** 1 st, install the judder prevention plate on the clutch hub.
10. **See Picture. 3** Next, install the plain steel plate on the clutch hub.
11. Then, install a friction plate and then a cutout steel plate on the clutch hub. Install seven remaining friction plates and six remaining cutout steel plates in same manner, alternating between friction plates and cutout steel plates. Ending with friction plate on the top.



Installation Instruction 2/3

12. **See Picture. 4.** Align the Dot mark on the pressure plate with the Dot mark on the Inner hub. Install the pressure plate .
13. Choose spring combination for your motor from **Chart B.** Install static springs and spring shims (if it is necessary) into pressure plate spring cups.

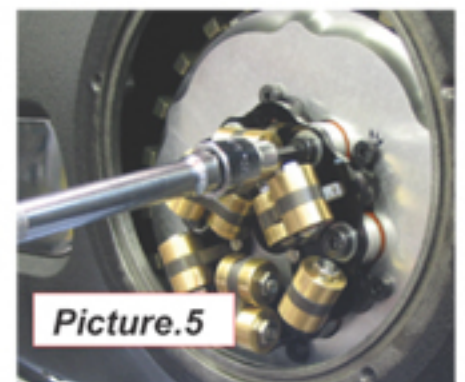


Picture.4

14. Apply Locktite (Blue) to the thread of 4mm allen head bolts

15. **See Picture. 5.** Install the Lock up head on clutch hub. Use the provided bolts and washers, tighten little by little with a 5mm allen wrench to 9-10 ft-lbs.

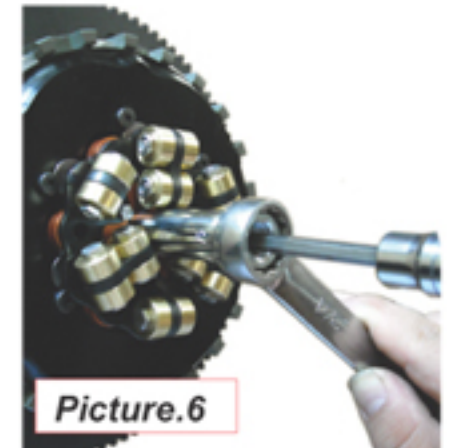
Caution: Don not tighten the only one bolt all the way in to avoid damaging the lock up head, Carefully tighten 5mm allen head bolts little by little.



Picture.5

16. Use the stock clutch adjuster screw and special lock nut 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.

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

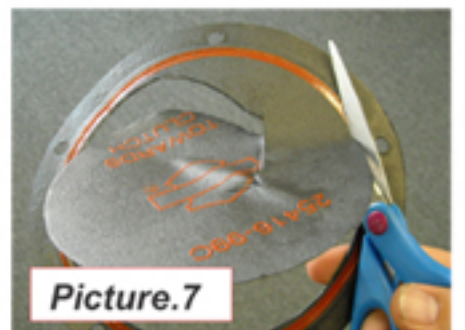


Picture.6

18. 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.

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

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



Picture.7

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.

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

• CF2 Performance Clutch kit (Inner Kit)

Parts#:TA002-001 For '90 to '97 Big Twin
 Parts#:TA002-002 For '98 to '06 Big Twin (except '06 Dyna)
 Parts#:TA002-003 For '06 and later Big Twin (including '06 Dyna)

Installation Instruction 3/3

Spring Pressure (lbs) / each

# of shims	Soft, Blue (#PTA001-025)	STD Medium, Ivory (#PTA001-040)	Hard, Orange (#PTA001-060)
0	20.0 lbs	40.0 lbs	60.0 lbs
1	21.5 lbs	42.0 lbs	64.0 lbs
2	23.0 lbs	44.0 lbs	68.0 lbs
3	24.5 lbs	46.0 lbs	N/A
4	26.0 lbs	N/A	N/A
5	27.5 lbs	N/A	N/A
6	29.0 lbs	N/A	N/A
7	30.5 lbs	N/A	N/A

Chart A

Example: Spring combination for 300 lbs Static pressure

Medium spring (Ivory) ---- 40lbs x 3
 Hard spring (Orange) ----- 60lbs x 3
 Total Static Pressure : 300lbs



Soft, Blue (#PTA001-025)		STD Medium, Ivory (#PTA001-040)		Hard, Orange (#PTA001-060)		Total Static pressure	Max Torque @ 3500RPM
# of springs	# of shims	# of springs	# of shims	# of springs	# of shims		
3	0	3	0			180.0 lbs	113 ft-lbs
3	0	3	2			192.0 lbs	117 ft-lbs
3	2	3	2			201.0 lbs	120 ft-lbs
3	3	3	3			211.5 lbs	123 ft-lbs
2	0	4	3			224.0 lbs	128 ft-lbs
2	3	4	3			233.0 lbs	131 ft-lbs
		6	0			240.0 lbs	133 ft-lbs
		6	1			252.0 lbs	137 ft-lbs
		6	2			264.0 lbs	141 ft-lbs
		6	3			276.0 lbs	145 ft-lbs
		3	0	3	0	300.0 lbs	153 ft-lbs
		3	3	3	0	318.0 lbs	159 ft-lbs
				6	0	360.0 lbs	173 ft-lbs
				6	1	384.0 lbs	181 ft-lbs
				6	2	408.0 lbs	189 ft-lbs

*Medium spring (Ivory) comes with the kit as a standard spring.

Chart B

CF2 Optional Parts

Clutch Springs



- #PTA001-025 Soft spring, 25 lbs (Blue) **\$3.80/each**
- #PTA001-040 Medium (STD) spring, 40 lbs (Ivory) **\$3.80/each**
- #PTA001-060 Hard spring, 60 lbs (Orange) **\$3.80/each**
- #PTA001-080 Hard spring, 80 lbs **\$3.80/each**

Spring shims



- #PTA003-001 Spring shims (Q.18) **\$18.00**

Solid Locker



To disable constant force. Use only centrifugal mode for maximum load(Race use).

- #PTA002-001 Solid lockers (6) **\$28.80**

Derby Cover Spacers



Make enough clearance between a VP Clutch 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 1/2" thickness **\$45**

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

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