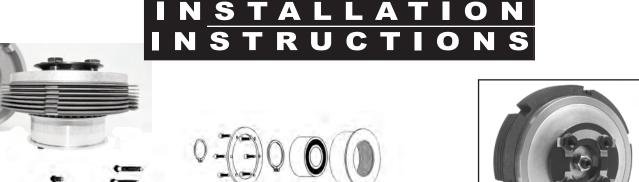


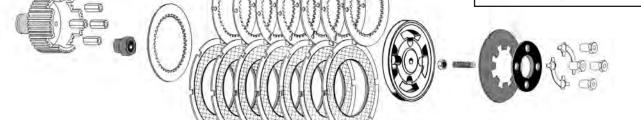
HOME OF PRIMO BELT DRIVES

QUALITY & PERFORMANCE SINCE 1973

PRO-CLUTCH TM

1056-0002 / For All 1936-1984 Big-Twin Applications





Congratulations, you have just purchased Rivera Primo's Pro-Clutch™, the best clutch upgrade in the world. Please follow the directions for a simple, trouble free installation!

If you have any questions about this installation please contact Rivera Primo and a knowledgeable Pro-Clutch™ technician will assist you! Thank you for purchasing a Pro-Clutch™!

RIVERA PRIMO's PRO-CLUTCH™ for early-model (1936-1984) Big-Twin motorcycles upgrades the clutch in two ways: First, by increasing the friction area by almost 50%. Second, by replacing the coil-spring clutch-pack with our proprietary diaphragm spring design. Diaphragm-spring operated clutches have proven to be more durable than typical coil spring clutch packs, when utilized in street & high-performance motor vehicle applications. **PRO-CLUTCH™** installs quickly into the existing clutch basket (belt or chain) by removing the OEM hub and caged (loose) bearings, and installing the **PRO-CLUTCH™** hub adapter assembly and clutch pack! **PRO-CLUTCH™** will easily transmit **ALL** your motor's horsepower to the transmission without slipping or grabbing! Smooth, easy hand-control makes this high performance **PRO-CLUTCH™** (formerly PC-1000-A) a must for any high-performance 1936-1984 Big-Twin Harley motorcycle!

Rivera Primo Inc. 12450 Whittier Blvd., Whittier, CA 90602

TEL: (562) 907-2600 FAX: (562) 907 2606 / www.riveraprimoinc.com / E-mail: info1@riveraprimoinc.com



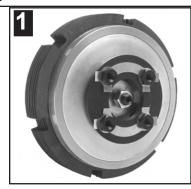
SAFETY FIRST

When performing work on any motorcycle, and prior to starting this installation disconnect BOTH battery cables! If the motorcycle is on a lift, fasten it securely to prevent it from falling! Read and become familiar with the Pro-Clutch™ instructions before starting. For safety, use <u>only</u> the proper tools for this installation!

STEP 1:

This is the Rivera Primo Pro-Clutch™. Get familiar with it before disassembling it for installation! Strip the clutch basket of all the OEM clutch components such as bearing cage & bearings, clutch plates, pressure plate, coil springs etc!

Note the position of the new lock-clips P/N1058-0106



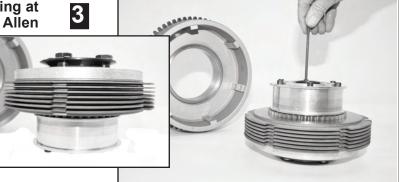


STEP 2:

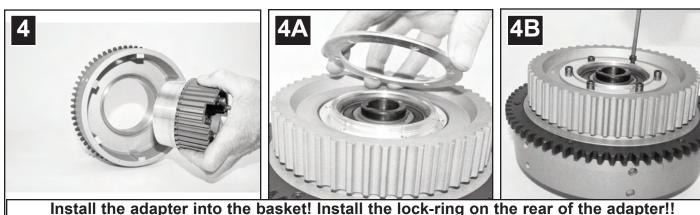
To prepare the Pro-Clutch™ for installation disassemble the pressure plate assembly and clutch pack while noting the exact sequence of the components for reference during reassembly! See the exploded view on page 6 of this installation guide.

STEP 3:

Remove the 6 Allen head bolts and the lock-ring at the rear of the adapter! Keep track of ALL the Allen bolts!



STEP 4: Install the Rivera Primo Pro-Clutch™ hub & adapter into the OEM clutch basket. Use Rivera Primo's "Blue" thread lock on the Allen bolts and tighten to 80 INCH POUNDS (not foot pounds!)



(

4C

STEP 4C:

Install the clutch basket/hub assembly onto the transmission main-shaft using two drops of Rivera's Blue thread-lock or equal and tighten the clutch hub nut to 50-60 foot-pounds of torque.



5

STEP 5:

First plate installed is the .120" steel plate. It goes all the way to the rear of the clutch hub



6

STEP 6:

Next clutch in is a friction(as shown above) then steel, alternating until all the plates are installed!

ATTENTION!

If the clutch is to be operated in an oil bath, it is recommended that the friction plates be soaked in primary lubricant for 15-20 minutes. Wipe off excess lubricant prior to installation.

Rivera Pimo recommends using Dextron III ATF (Automatic Transmission Fluid) in the primary for best performance with the Pro Clutch.



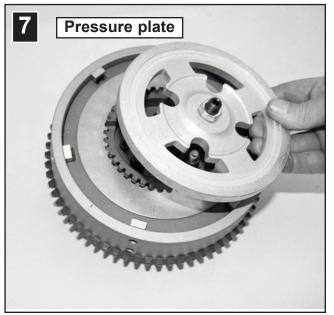
STEP 6A:

Last clutch plate to be installed is a steel drive plate!



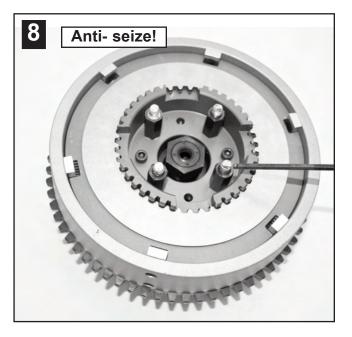
STEP 7:

The billet aluminum pressure plate is installed next, flat surfaces facing inward as shown!



STEP 8:

Dab some high-quality anti-seize on the stud threads of the Pro-Clutch™ hub! This will prevent the nuts from sticking and cause the studs to come loose when the Pro-Clutch™ is disassembled.

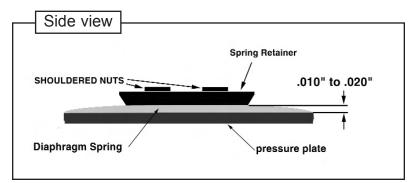






STEP 9:

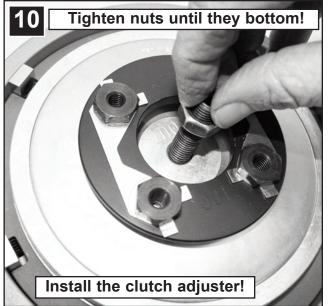
The diaphragm spring & spring retainer are installed next. Spring retainer goes bevel-side in! Tighten the shoulder nuts until they bottom completely & are snug! The lock-clips (1058-0106) should be installed as pictured. Bend one tab over each nut to keep it tight. The diaphragm spring should be compressed to within .010"-to-.020" of being flat. The spring will have a very slight outward bow.





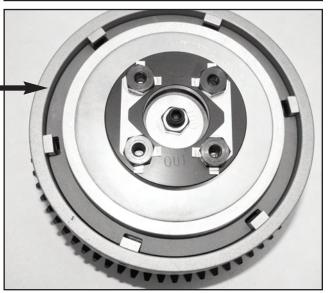
STEP 10:

Install the clutch adjustment screw, and adjust the clutch per the instructions in your Harley-Davidson service manual.



Your finished installation will look like this

Be sure to bend one of the locking tabs over each shoulder nut to keep them tight. Rivera Primo's Pro-Clutch™ for pre-Evolution applications eliminates the creep & chatter associated with early style clutch installations. Your early model HD will be easier & safer to operate with the Pro-Clutch™ installed. A special PRO CLUTCH™ clutch hub nut is included in every kit!

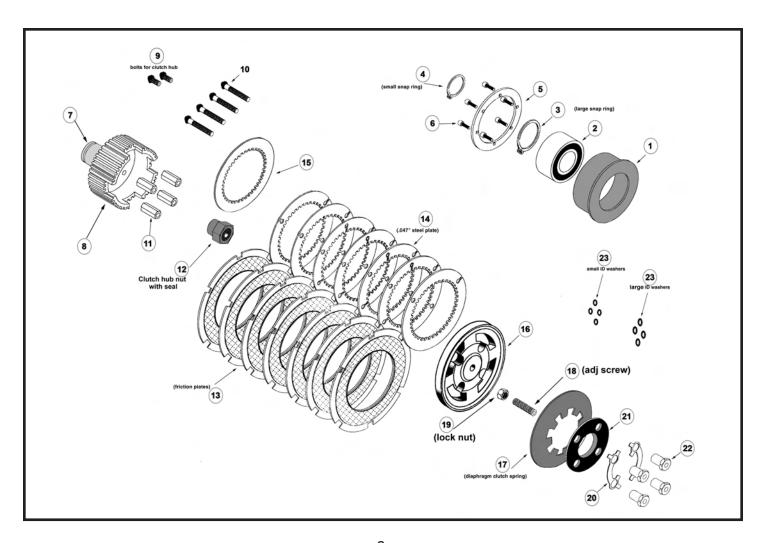




1056-0002 1936-1984 Big-Twin

The following 1056-0002 parts list supercedes all preceding information for Rivera Primo's PC-1000, PC-1000-C & PC-1000-A Pro-Clutch™ assemblies.

```
1-1057-0012 . . . . bearing adaptor
2)
         1-1018-0015 . . . . bearing
3)
         1-1101-0066 . . . . . large snap ring
4)
         1-1101-0068 . . . . small snap ring
5)
         1-1057-0013 . . . . steel lock ring
6)
         6-1100-0131 . . . . screws for lock ring
7)
         1-2061-0003 . . . . steel inner hub
8)
          1-1061-0012 . . . . . aluminum outer hub (1.712")
9)
         2-1100-0112 . . . . screws for clutch hub
10)
         4-1100-0113 . . . . . bolts for clutch hub
11)
         4-2057-0026 . . . . nuts for clutch hub screws
12)
         1-2057-0030 . . . . . special clutch hub nut & seal
         7-1054-0006 . . . . friction clutch plate
13)
14)
         7-2060-0006 . . . . steel clutch plate (.047")
15)
         1-1060-0003 . . . . steel clutch plate (.120") rear
         1-2058-0001 . . . . pressure plate (aluminum)
16)
17)
         1-2059-0003 . . . . diaphragm clutch spring (medium)
18)
         1-2057-0005 . . . . clutch adjustment screw
         1-1057-0004 . . . . adjustment screw lock-nut
19)
20)
         2-1058-0106 . . . . locking clips
21)
         1-2059-0200 . . . . diaphragm spring retainer
         4-1057-0015 . . . . shouldered nuts for retainer
22)
         1-2057-0024 . . . . . washer set (4-and-4)
23)
```





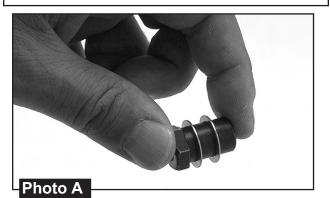
PRO-CLUTCH ADJUSTMENT

As delivered, the Pro-Clutch™ clutch-pack requires no adjustment, having been set at the factory.

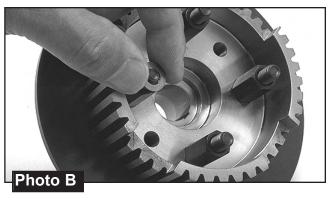
After the Pro-Clutch™ has accumulated significant mileage, it may require some adjustment due to normal wear. Use the procedures outlined below if & when adjustment is required. For best performance the diaphragm spring MUST be compressed to within .010"-.020" of being flat when the shouldered spring retainer nuts have been properly tightened (bottomed)! This will provide maximum spring pressure to the clutch pack, with minimum hand effort at the handlebar!

Three clutch springs are available: A stock replacement spring (black in color), a medium spring for street performance (silver in color), and a competition spring (gold in color) for drag race only applications.

If the diaphragm spring adjustment requires LESS ARCH, this can be accomplished by using one or more of the special .020" washers on each of the shouldered nuts. (photo A)



If the diaphragm spring adjustment requires IMORE ARCH, this can be accomplished by using one or more of the special .030" washers on the clutch hub studs nuts as pictured.



The diaphragm spring will be compressed to within .010"-to-.020" of being flat when correctly installed & adjusted

Photo C shows a diaphragm spring that is compressed too far, and needs to be adjusted. Special adjustment washers be added to the clutch hub studs as shown in photo B.



This is a diaphragm spring that is correctly adjusted. A little daylight is showing at either edge, because the spring is within .010"-to-.020" of being flat! (Slightly bowed outward) as seen in photo D.



GENERAL WARRANTY

Rivera Primo Inc.'s sole obligation and the customer's sole remedy is limited to replacement or repair of products free of charge in the event products fail to perform as warranted for a period of one year from actual date of purchase. Proof of purchase must accompany any warranty claim. In no event shall Rivera Primo Inc. be liable for claims for any other damages, whether direct, incidental, foreseeable, consequential, or special (including but not limited to loss of use, revenue or profit), whether based upon warranty, contract, tort (including negligence) or strict liability arising in connection with the sale or the failure of Rivera Primo Inc. products to perform in accordance with the stated specifications.

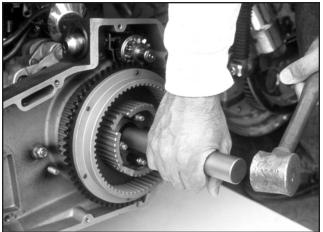
Rivera Primo Inc. makes no other warranty of any kind whatsoever, and specifically disclaims and excludes all other warranties of any kind or nature whatsoever, directly or indirectly, express or implied, including, without limitation, as to the suitability, productivity, durability, fitness for a particular purpose or use, merchantability, condition, or any other matter with respect to Rivera Primo Inc. products.



TAPERED SHAFT HUB REMOVER TOOL

1062-0002 .Tapered hub removal tool (all applications). Simply mount the tool on the left hand threads of the transmission main shaft, and give the end of the tool a sharp tap with a medium weight hammer and the clutch hub simply "pops" off. Available now for all tapered shaft clutch hubs.





CLUTCH HUB PULLER





1062-0003 . . . Quickly attaches to most Pro-Clutch™ or Primo Belt Drives diaphragmspring style clutch hub to allow quick easy removal.

CLUTCH HUB HOLDER

1062-0001 . . . Engages & holds clutch hub splines to allow correct torque specification

to be applied to the clutch hub nut (left-hand thread) when installing a



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