

RIVERA ENGINEERING'S PRO-CLUTCH PC-1300XL (ALL 5 SPEED SPORTSTER) INSTALLATION INSTRUCTIONS

1) DISCONNECT BOTH BATTERY CABLES (NEGATIVE CABLE FIRST) FOR SAFETY.

2) REMOVE THE CHAIN-CASE DRAIN PLUG (LOWER REAR OF OUTER PRIMARY COVER). DRAIN THE PRIMARY FLUID. REMOVE THE GEAR SHIFT LEVER AND LEFT FOOT-REST ASSEMBLY. LOOSEN CHAIN ADJUSTER SCREW LOCK-NUT, AND TURN CHAIN-ADJUSTER SCREW COUNTER CLOCK WISE TO RELEASE PRESSURE ON THE PRIMARY CHAIN.

3) REMOVE THE CLUTCH INSPECTION COVER OR DERBY COVER (94 OR LATER MODELS) AND O-RING SEAL. SLIDE SPRING AND HEX-SHAPED LOCK-PLATE FROM PRIMARY COVER. TURN CLUTCH ADJUSTMENT SCREW CLOCKWISE UNTIL THE NUT CAN BE REMOVED.

4) REMOVE OUTER PRIMARY COVER SCREWS AND OUTER PRIMARY-COVER WITH GASKET. REMOVE & DISCARD SHIFTER LEVER SHAFT SEAL. LEAVE THE CLUTCH CABLE AND RELEASE MECHANISM CONNECTED TO THE PRIMARY COVER.

5) INSTALL SPROCKET LOCKING TOOL (PN HD-38362) AND REMOVE MOTOR SPROCKET NUT. LOOSEN THE MOTOR SPROCKET, AND LEAVE IT IN PLACE.

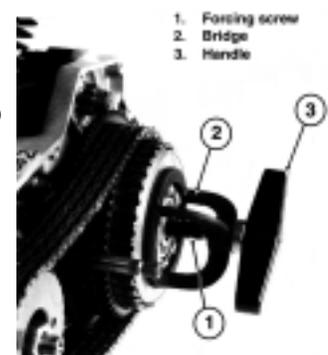
6) REMOVE ADJUSTER-PLATE RETAINING-RING AND REMOVE THE ADJUSTER-PLATE AND ADJUSTING-SCREW-ASSEMBLY FROM THE PRESSURE PLATE.

7) REMOVE LEFT-HAND-THREAD CLUTCH HUB NUT & WASHER FROM THE TRANSMISSION MAIN-SHAFT.

8) REMOVE THE CLUTCH ASSEMBLY, PRIMARY CHAIN AND MOTOR SPROCKET TOGETHER.

9) WITH THE CLUTCH ASSEMBLY REMOVED, REINSTALL THE ADJUSTING SCREW ASSEMBLY INTO THE PRESSURE PLATE. SECURE THE ADJUSTING-SCREW-ASSEMBLY IN PLACE WITH THE RETAINING RING.

10) THREAD THE CLUTCH-SPRING FORCING-SCREW (PN HD-38515-91) ONTO THE CLUTCH ADJUSTING SCREW. PLACE THE FLAT RING OF THE SPRING COMPRESSION TOOL (PN HD 38515A) AGAINST THE DIAPHRAGM CLUTCH SPRING. THREAD THE TOOL HANDLE ONTO THE END OF THE FORCING SCREW. HOLD THE FORCING SCREW WITH A WRENCH, AND TURN THE TOOL-HANDLE CLOCKWISE UNTIL PRESSURE IS RELEASED FROM THE SNAP RING & SPRING-SEAT THAT HOLDS THE DIAPHRAGM SPRING IN PLACE. DO NOT COMPRESS THE SPRING ANY MORE THAN IS NEEDED TO REMOVE THE SNAP RING AND SPRING-SEAT, OR DAMAGE TO THE PRESSURE PLATE MAY OCCUR..



11) CAREFULLY REMOVE THE SNAP RING, SPRING SEAT, DIAPHRAGM SPRING, AND SPRING-COMPRESSOR-TOOL AS AN ASSEMBLY, AND SET ASIDE.

12) REMOVE ALL THE OEM CLUTCH PLATES.

13) REMOVE THE RETAINING RING FROM THE INBOARD END OF THE CLUTCH HUB. USING AN ARBOR PRESS, AND WITH PROPER BEARING (INNER RACE) SUPPORT, PRESS THE OEM CLUTCH HUB FROM THE CLUTCH BASKET. FAILURE TO PROPERLY SUPPORT THE INNER-BEARING-RACE WHEN PRESSING THE CLUTCH HUB OUT, MAY RESULT IN DAMAGE TO THE BEARING.

14) DISASSEMBLE YOUR RIVERA ENGINEERING PC-XL PRO-CLUTCH KIT IN PREPARATION FOR INSTALLATION NOTING THE SEQUENCE OF CLUTCH PLATES. THEY WILL BE REINSTALLED IN EXACTLY THE SAME ORDER. USING THE ARBOR PRESS WITH PROPER SUPPORT FOR THE INNER BEARING RACE, PRESS-IN THE RIVERA ENGINEERING PRO CLUTCH PC-XL-1300 CLUTCH HUB UNTIL IT BOTTOMS. CHECK THE BEARING FOR SMOOTH OPERATION. STIFF, OR DIFFICULT-TO-ROTATE BEARINGS MUST BE REPLACED.

15) IMMERSE THE PRO-CLUTCH FIBER PLATES IN PRIMARY FLUID FOR 5-10 MINUTES. INSTALL THE PRO CLUTCH PACK INTO THE CLUTCH BASKET (.120" STEEL PLATE FIRST, FIBER, STEEL, FIBER ETC.). INSTALL THE PRESSURE PLATE.

16) POSITION THE DIAPHRAGM SPRING, AND SPRING COMPRESSOR ASSEMBLY ONTO THE CLUTCH PACK/BASKET, AND RE-INSTALL THE SPRING-SEAT, AND SNAP RING TO HOLD THE DIAPHRAGM SPRING IN PLACE. WITH A WRENCH HOLDING THE FORCING SCREW, TURN THE TOOL HANDLE COUNTER-CLOCKWISE UNTIL THE SPRING COMPRESSOR CAN BE REMOVED. REMOVE ADJUSTER PLATE RETAINING RING, AND CLUTCH ADJUSTER ASSEMBLY.

17) INSTALL THE FRONT MOTOR SPROCKET, PRIMARY-CHAIN, AND CLUTCH BASKET TOGETHER ON THE MOTOR SHAFT & TRANSMISSION MAIN-SHAFT. USING THE SPROCKET LOCKING TOOL, TIGHTEN THE FRONT MOTOR SPROCKET TO 150-165 FOOT POUNDS OF TORQUE. INSTALL THE CLUTCH HUB NUT (LEFT HAND THREADS) AND TIGHTEN TO 70-80 FOOT POUNDS OF TORQUE.

18) INSTALL THE ADJUSTER PLATE, AND ADJUSTER SCREW MECHANISM INTO THE PRESSURE PLATE.

19) INSTALL A NEW SHIFTER SHAFT SEAL IN THE PRIMARY COVER. REINSTALL OUTER PRIMARY COVER, ADJUST PRIMARY CHAIN TENSION, AND FILL PRIMARY WITH THE REQUIRED AMOUNT OF PRIMARY FLUID. ADJUST THE CLUTCH, INSTALL THE HEX-SHAPED LOCK-PLATE, & SPRING AND YOU'RE READY TO RIDE.