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Affected Models: Chief 2002-03

VINs: see attached

Technical Bulletin

Jackshaft Retaining Ring Replacement

Important

Read this Service Bulletin carefully and thoroughly before commencing work. If you do not understand the instructions or have questions, see your supervisor. If you are unsure of any of the procedures, please contact your Indian Field Service Manager (FSM).

Jackshaft Retaining Ring Replacement

It has been found that the spring steel retaining ring in the jackshaft assembly is working itself loose. The new retaining has been manufactured with higher quality spring steel and will resolve the problem.

Kit p/n

Part #	Part Description	Qty
71-476	Retaining Ring	1
09-035	Gasket - Inner to Outer Primary	1
72-318	O-ring - Inner to Outer Primary	1
72-324	Inspection Cover Gasket	1
IMCSB-???	Service Kit Instructions	1

Tools Required

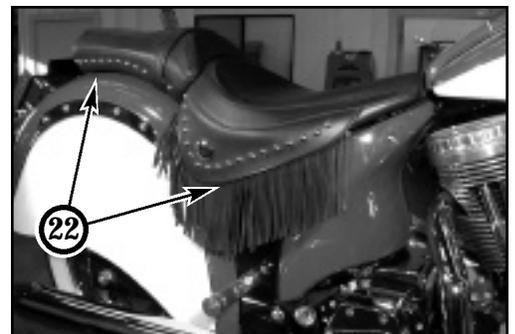
3/8" Drive	Torque Wrench
10mm Socket	9/16" Wrench
7/16" Socket	5/32" Allen Wrench
3/4" Socket	3/16" Allen Wrench
1-3/16" socket	Internal Circlip pliers

Materials Required

Primary Oil - 1Qt
Blue Loctite 242
Red Loctite 262
Carb/Brake Cleaner
Grease

Preparation

- Using a 5/32" allen wrench remove 3 allen head bolts (2 each side and one at the rear) and remove the seat .
- Using a 10mm wrench remove the negative (earth) cable from the battery.



Primary Housing

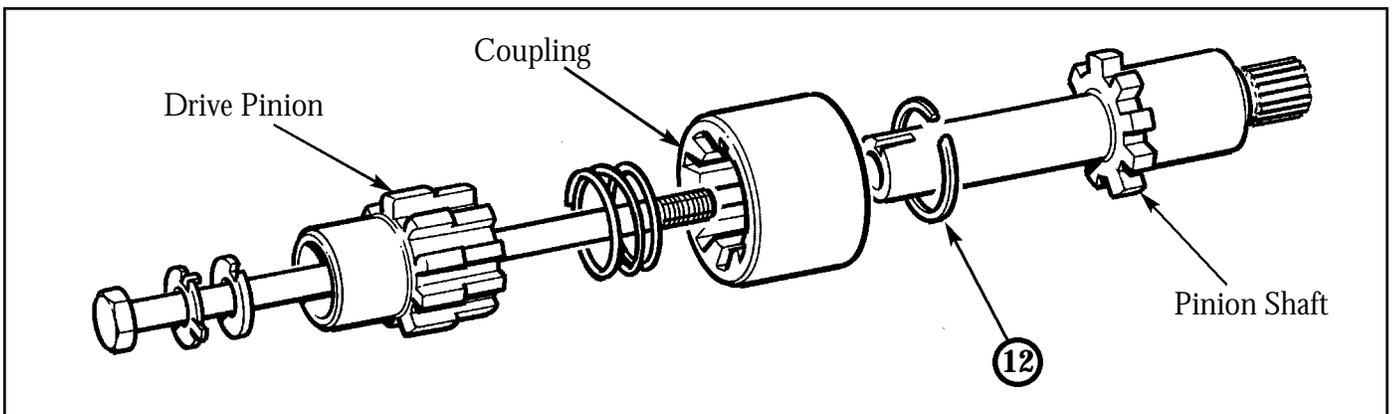
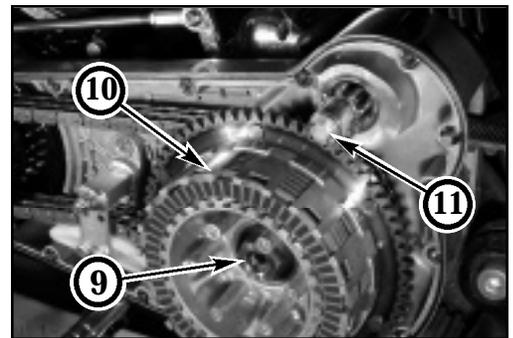
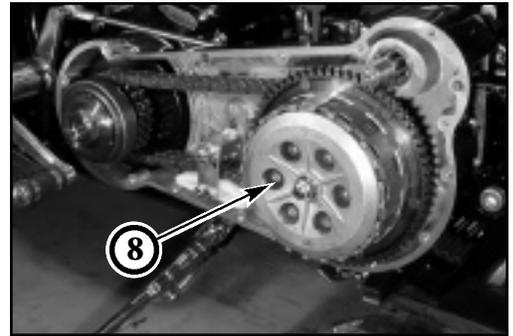
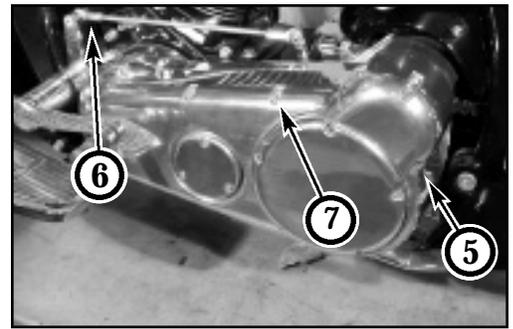
- 4 Place a drain pan below the drain plug on the underside of the primary chain housing.
- 5 Using a 3/4" socket, remove the plug and drain the oil from the housing.
- 6 Using a 3/16" allen wrench, disconnect the forward end of the shift rod from the shift lever.
- 7 Using a 3/16" allen wrench, loosen and then remove the 15 allen head bolts securing the outer primary chain housing. Carefully remove the housing, draining any remaining oil.
- 8 Using a 10mm socket, remove the 6 bolts, springs and pressure plate from the clutch assembly.
- 9 Using a 1-3/16" socket and impact driver remove the clutch hub nut.

NOTE: *The clutch hub nut has a reverse thread.*

- 10 Slide the clutch basket assembly out approximately 1/2" on its shaft to allow clearance for the jack shaft removal.
- 11 Bend the lock tab flat and using a 7/16" socket loosen the jack shaft bolt. Carefully remove jackshaft assembly.

Retaining Ring Replacement

- 12 Disassemble the jackshaft separating all the components. Remove and discard the retaining ring from the coupling and fit the new ring from the kit (71-476).
- 13 Thoroughly grease the splines on the drive pinion, coupling and pinion shaft, and reassemble the jackshaft.



Refit

14 Refit the jackshaft assembly to the inner primary and tighten the jack shaft bolt to 84-108 inch-pounds. Bend back the loc-tab against the face of the bolt.

15 Slide the clutch assembly back into position.

16 Clean the threads of the clutch hub nut, apply Red Loctite 262 and refit. Tighten to 51-59 foot-pounds

NOTE: The clutch hub nut has a reverse thread.

17 Refit the clutch pressure plate and 6 springs. Clean the threads of the 6 pressure plate bolts, apply Blue Loctite 242 and refit. Tighten to 71-84 foot-pounds.

18 Clean the primary gasket surface and inspect for damage. Replace the flat gasket with the new one provided in the kit. For primaries that require the black molded o-ring, the gasket can be reused. If the o-ring is damaged, a replacement can be ordered, p/n 09-035.

19 Clean the 15 allen head bolts that secure the outer primary housing with brake/carb cleaner and apply Blue Loctite 242 to the first 4 threads of each bolt.

20 Replace the outer primary and secure with the 15 allen bolts, finger tight.

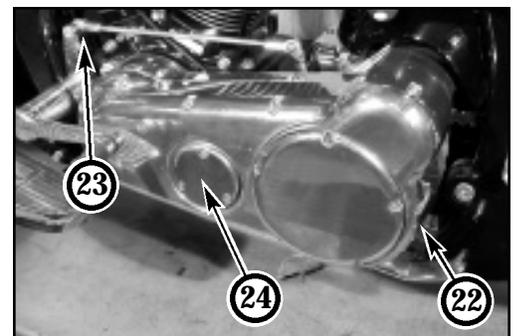
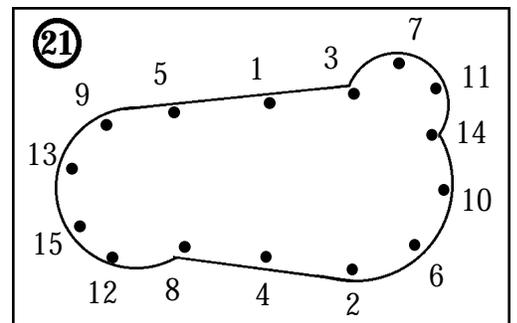
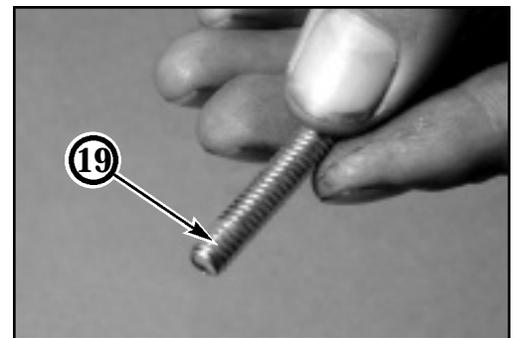
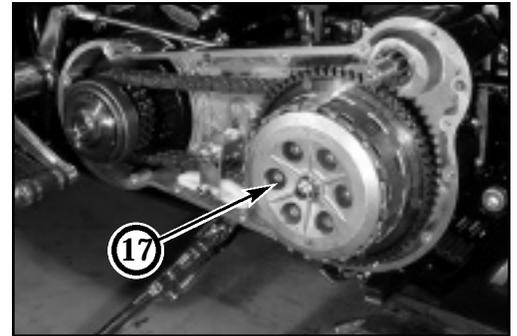
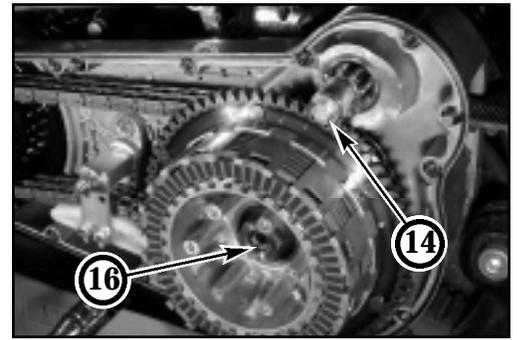
21 In an "X" pattern, tighten the 15 allen bolts to 10-12 foot-pounds.

22 Refit the drain plug and tighten to 18 foot-pounds.

23 Re-connect the shift rod to the shift lever. Apply Blue Loctite 242 to the first 4 threads of the bolt and tighten to 15-18 foot-pounds.

24 Remove the 3 allen head bolts from the chain inspection cover and refill the primary chain housing with 30oz (888cc) of Indian brand primary oil.

25 Clean the 3 inspection cover bolts and apply Blue Loctite 242 to the first 4 threads of the bolts. Replace the inspection cover, refit the 3 bolts and tighten 96-120 inch-pounds



26 Reconnect the battery.

27 Reposition the seat. Clean the threads of the 3 seat bolts and apply Blue Loctite 242 to the first 4 threads. Refit the seat bolts and tighten to 84-108 inch-pounds.

