Scorpion™

1986-1989 CLUTCH KIT

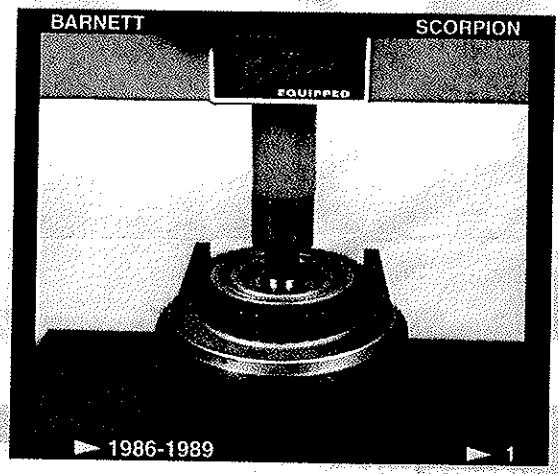
Refer to Factory Service Manual for:

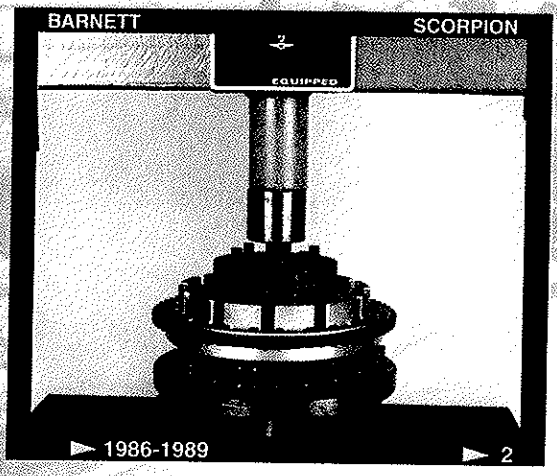
All Safety Instructions
Removal / Installation Instructions
Proper Tools and Pullers
Torque and Lubrication Specifications

NOTE: A HYDRAULIC PRESS IS REQUIRED TO REMOVE OEM CLUTCH HUB AND INSTALL THE BARNETT SCORPION CLUTCH HUB!

Barnett Tool and Engineering recommends changing primary lubricant after the first 500 miles and every 5,000 miles thereafter.

1. To protect against accidental shock or start up, disconnect both battery cables.
2. Remove primary drain plug at bottom of primary cover. Drain lubricant into suitable container.
3. Remove foot pegs, shifter lever, floorboard, etc.
4. Remove (3) three screws to remove inspection cover from primary chain cover.
5. Remove (10) ten socket set screws with washers from primary cover. Remove primary cover.
6. Refer to your Factory Manual to remove clutch basket and associated components using proper safety instructions, proper tools and pullers.
7. A hydraulic press is required to remove the OEM clutch hub & install the Barnett Scorpion clutch hub.
8. Using a hydraulic press, remove the OEM clutch hub from the clutch basket. Firmly support the OEM basket as shown during this operation. After pressing the hub out, check the bearing for smoothness. If the bearing feels rough or binds, it must be replaced. *Refer to photo #1.*





Using a press, install the Barnett Scorpion Clutch hub into the OEM clutch hub basket. Securely support the inner bearing races during this process. Carefully bottom the Scorpion Clutch hub in the OEM basket. After pressing the Barnett Scorpion hub, check the bearing for smoothness again! *Refer to photo #2.*

WARNING!

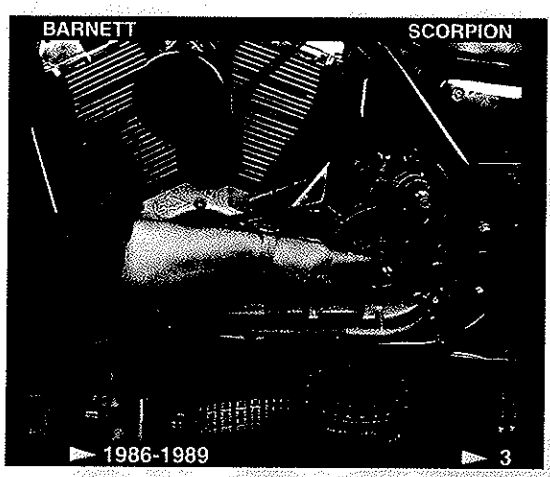
Always wear proper eye protection when removing or installing snap rings. Slippage may propel the ring with enough force to cause eye injury. Use correct retaining ring pliers. Verify that the tips of the pliers are not excessively worn or damaged.

(CONTINUED ON BACK)

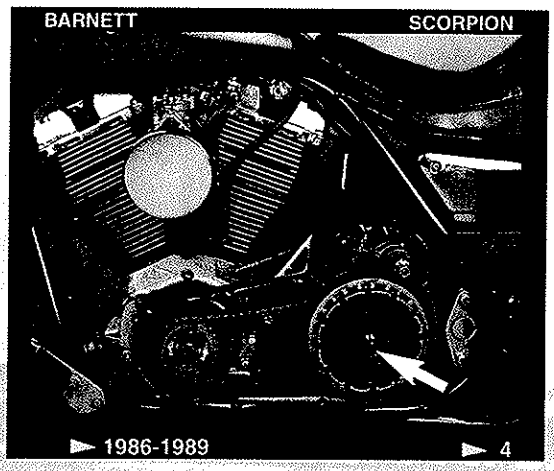
Barnett

Scorpion™ 1986-1989 CLUTCHES

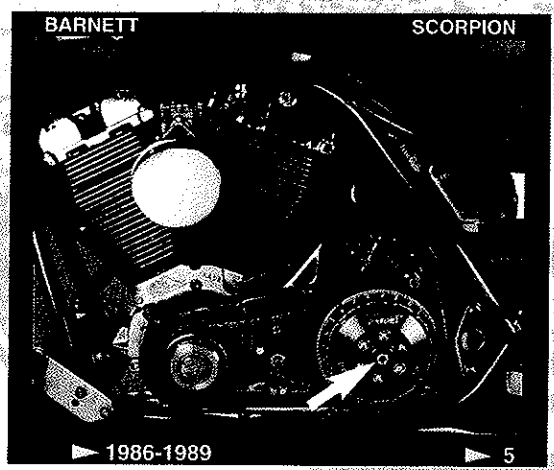
Install snap ring into rear of Barnett Scorpion hub; make sure the snap ring is correctly embedded in the snap ring groove.



9. Check key way and slots for wear or distortion. Replace if necessary. *Refer to photo #3.*
10. Re-install the clutch basket into the primary case (with chain and the associated components) using red thread lock on the transmission main shaft prior to installing the clutch hub nut. Tighten the hub nut using the factory torque specifications (50-60 foot lbs) as instructed in your factory manual. *Refer to photo #4.*
11. Pre-soak friction disks in lubricant for approximately ten minutes. Wipe dry with lint-free towel prior to installation.



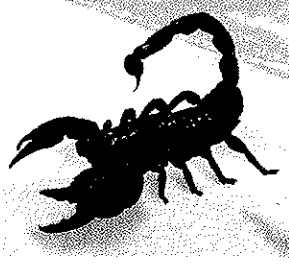
12. Start by installing a friction plate first; steel plate next, following with friction, steel, friction, steel, ending with a steel plate last.
13. Install the pressure plate using (6) six MT-7 springs, (6) six spring cups and (6) six- 6mm SHCS.
14. Torque 6mm screws to 14 inch lbs.
15. Adjust clutch as you would normally, using center bolt adjuster. *Refer to photo #5.*
16. Check and adjust primary chain as needed. Re-install outer primary cover and pour proper amount and type of primary case lubricant through the clutch inspection opening.
17. Using a new O-Ring, install clutch inspection cover in primary chain case cover. Install (3) three socket screws using new rubber sealing washers. Tighten screws to 50-70 inch lbs.
18. Re-install shifter lever, foot pegs, floorboards, etc.



CLUTCH SPRING PRESSURES

MT-7-6 six springs equals 348 lbs of spring pressure.
MT-23-6 six springs equals 492 lbs of spring pressure.
Alternating three MT-7 springs and three MT-23 springs equals 420 lbs of spring pressure.

Barnett
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PN #38330 **SCORPION BILLET C CLUTCH ASSEMBLY (BILL OF MATERIAL)**

LATE 1986 TO 1989 BIG TWIN

QTY.	PART #	DESCRIPTION
1	203002	CLUTCH HUB
1	203003	CLUTCH DISK SPLINE
1	203004	CLUTCH PRESSURE PLATE
6	201005	STUD CLUTCH PACK ASSEMBLY
1	203005	LONG SHAFT SPACER
1	203009	CLUTCH ADJUSTMENT SCREW
1	201011	HEAVY DUTY SNAP RING
6	MT-90	SPRING CUP
6	6mm x 1shcs	6mm X 1mm SOCKET HEAD CAP SCREW
1	SR-INSERT	THREADED INSERT (INSTALLED IN PRESSURE PLATE
1	7/16-20 NUT	7/16-20 JAM NUT (INSTALLED ON ADJUSTMENT SCREW)
6	MT-7	CLUTCH SPRINGS (GOLD)
6	MT-23	CLUTCH SPRINGS (GREEN)

CLUTCH PACK STACK HEIGHT (.942)

6	203020	KEVLER FRICTION PLATES (.097)
7	203023	STEEL DRIVE PLATE (.051)
1	203040	KEVLER REPLACEMENT CLUTCH KIT FRICATION PLATES , STEELS AND SPRINGS.