

# BARNETT Scorpion™



## Refer to Factory Service Manual for:

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



## Installation Guide

**607-30-10084**

*Late 1984-'90 4-Speed Evo Sportster*

### Removing The Existing Clutch

#### 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 transmission case. Drain lubricant into suitable container.
3. Remove foot pegs, shifter lever etc.
4. Loosen lock nut on chain adjuster screw. Unscrew chain adjuster screw to relax tension.
5. Remove clutch adjuster access plug. Remove O-ring, spring, and lock-plate from primary cover.
6. Remove the screws securing primary cover. Remove cover and gasket.
7. Remove and discard shifter shaft seat. Replace with new seal.
8. Refer to your Factory Manual to remove clutch basket and associated components using proper safety instructions, proper tools, and pullers.
9. Using a hydraulic press, remove the OEM clutch hub from the clutch basket Firmly. 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.



Photo 1

### Installing Your Scorpion™ Clutch

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.



Photo 2

(Continued on back)

## 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.

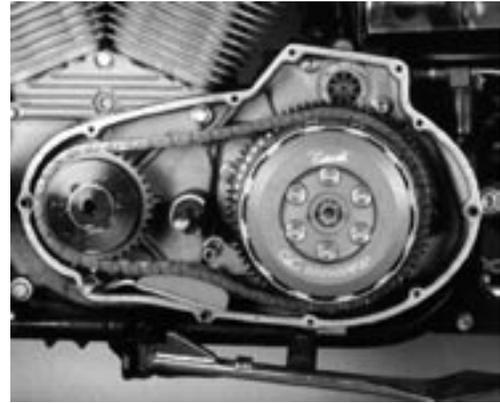


Photo 4

## Installing Your Scorpion™ Clutch

2. Install snap ring into rear of Barnett Scorpion hub; make sure the snap ring is correctly embedded in the snap ring groove.
3. Re-install the clutch basket into the primary case (*with chain and the associated components*) as instructed in your factory manual. Refer to photo 3.

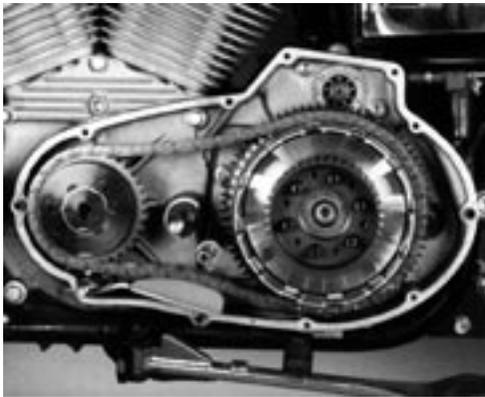


Photo 3

10. Adjust primary chain.

11. Re-install inspection cover, shifter lever, foot pegs, etc.

### Clutch spring pressures

Springs	lbs of Spring Pressure
MT-33-6	396
MT-112-6	420
MT-113-6	480

4. Presoak friction disks in lubricant for approximately ten minutes. Wipe dry with lint-free towel prior to installation.
5. Start by installing friction plate first; steel plate next, following with friction, steel, friction, steel, ending with steel plate last.
6. Remove stock adjuster screw and snap ring from OEM pressure plate. Install the Barnett pressure plate bearing.
7. Install the pressure plate using (6) six MT-110 springs; (6) six spring cups; (6) six- 6mm x 12mm SHCS. Torque to 5 ft. lbs.
8. Re-install outer primary cover and pour proper amount and type of primary case lubricant through the clutch inspection opening.
9. Install clutch adjuster and cable in primary chain case cover and adjust per factory specifications.

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