

BARNETT Scorpion™



Refer to Factory Service Manual for:

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



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. Drain motor lubricant into suitable container.
3. Remove shift lever and primary cover as per factory service manual.
4. Refer to your Factory Manual to remove clutch basket and associated components using proper safety Instructions, proper tools, and pullers.
5. A hydraulic press is required to remove OEM clutch hub & install the Barnett Scorpion clutch hub.
6. 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.

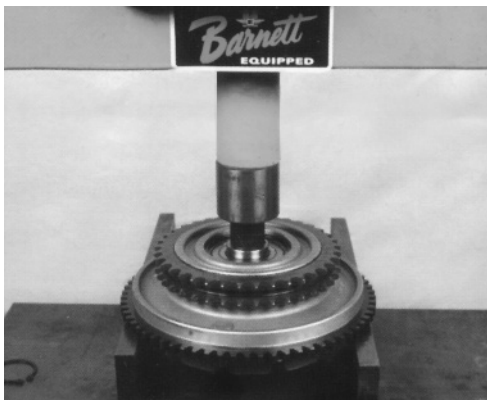


Photo 1

Installation Guide

608-85-10001

608-85-10097

608-85-10008

608-85-10011

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.

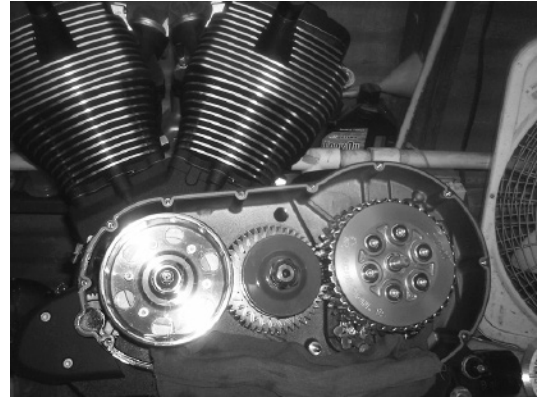


Photo 4

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 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 as instructed in your factory manual. Refer to photo 3.

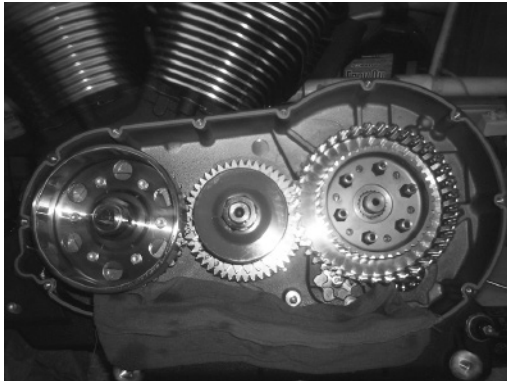


Photo 3

Clutch spring pressures

Springs	Ibs. of Spring Pressure
MT-95-6 (<i>Gold</i>)	252
MT-7-6 (<i>Gold</i>)	348
MT-23-6 (<i>Green</i>)	492

Note:

When using a 3 & 3 combination, you must alternate every other spring.

4. Install damper seat (flat steel band), then damper spring (curved steel band) with the white dot facing OUT. Next, install the "B" fiber plate (B plate has larger I.D.). Then install a steel plate, fiber plate, steel, fiber, ending with a steel plate last.
5. Install the pressure plate using (6) six MT-95 springs; (6) six spring cups; (6) six- 6mm SHCS.
6. Torque 6mm screws to 5 to 6 ft. lbs.
7. As per factory manual, re-install outer primary cover and adjust clutch. Install inspection cover and hardware. Refill motor oil with proper type and amount. Refer to photo 4.



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