



## #321-30-02012 & #321-30-02017 Clutch Basket Instructions

### 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 perform this installation.

### Removing the Existing Basket.

1. To protect against accidental shock or start up, disconnect both battery cables.
2. Remove primary drain plug at bottom of primary. Drain into suitable container. (Dispose of oil in proper manner.)
3. Remove foot pegs, floorboard, etc.
4. Remove (5) five screws to remove inspection cover from primary chain cover.
5. Remove (13) thirteen socket head 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 clutch hub from basket. *Refer to Photo 3.*
8. Using snap ring pliers remove bearing snap ring from basket.
9. If you choose to re-use your bearing you must press it out using the hydraulic press. Set it aside to be re-installed later.

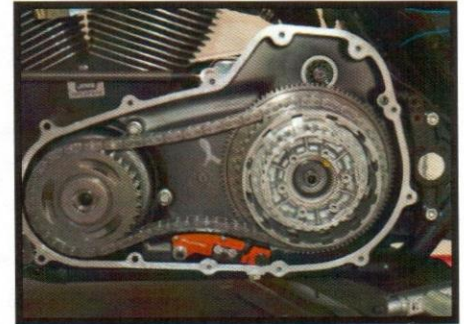


Photo 1

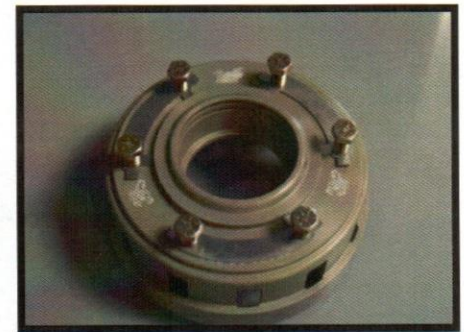


Photo 2



Photo 3

### Installing Scorpion Clutch Basket.

1. Center punch rivets in old basket. Then drill the head of rivets with  $\frac{1}{4}$ " diameter drill bit. Then using a hammer and chisel knock off the rivet head. Use a punch to drive the rivet body out of basket. *Refer to Photo 4.*
2. Separate ring gear from clutch basket.
3. Drill clutch ring gear rivet holes with  $\frac{3}{8}$ " diameter drill bit. *Refer to Photo 5.*
4. Install ring gear onto clutch basket, aligning holes as you do.
5. Install supplied bolts and locking plates. Torque bolts to 25 ft. lbs. in a crisscross manner. *Refer to Photo 6 & 7.*
6. Bend tabs on locking plate against bolts to keep the bolts from turning. One tab per bolt is sufficient. *Refer to Photo 8.*
7. Using a hydraulic press install a bearing into the new clutch basket. Bearing must be pressed all the way to the bottom.



Photo 4

Install snap ring into the groove nearest the bearing. There are two grooves, the inner groove is for the 2011 & up models and the outer groove is for all other models. *Refer to Photo 8.*

8. Using a press install the clutch hub into the clutch basket. Securely support the inner bearing races during this process. Carefully bottom the clutch hub in the basket. After pressing the clutch hub, check the bearing for smoothness!
9. Install snap ring into rear of hub; make sure the snap ring is correctly embedded in the snap ring groove.
10. Re-install the clutch basket into the primary case (with chain and 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.
11. Refer to the factory manual to complete the clutch, chain and engine sprocket installation.

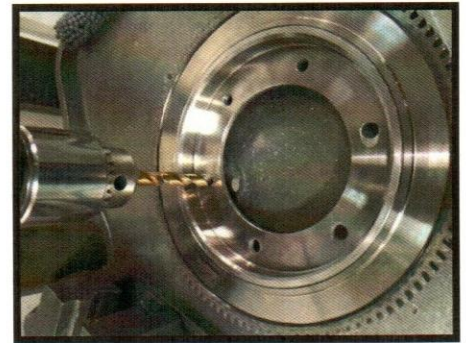


Photo 5



Photo 6



Photo 7



Photo 8



Photo 9

**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 pliers are not excessively worn or damaged.



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