



## Spears Racing Suzuki SV650 Extra Plate Race Slipper Clutch Installation

Congratulation, you purchased the best Slipper clutch kit for your Suzuki SV650 .

This installation must be done by an experienced race shop, or mechanic.

1. Read these instructions with photos before you start. Check if the kit includes all parts listed below.
2. Remove the old clutch Hub OEM ( according to Suzuki shop manual ),clean threads on the main shaft and big nut from any old locking agents or debris with brake cleaner.
3. Remount clutch basket with primary gear according to Suzuki workshop manual.
4. Remove rivets with a grinder or drill off the head, these rivets attach the basket with primary gear together. Remount this parts to the new Spears Racing Clutch basket and make sure they are positioned as they were taken off of the OEM Basket.
5. Begin the assembly of the Spears Racing clutch basket unit ( pic.a ). Put center spring washers ( pic. b,c ) and primary gear ( pic.d ).Now install the (6) Six damper springs to the machined pockets on the backside of the primary gear ( pic.e ). Next put the damper/pressure disc in place ( pic. f )and install the (3) three M8 bolts supplied using the red Loctite supplied in the kit ( pic. g,h, ). Recommended torque is 25-27 Nm. Turn the clutch basket over and take a pointed steel punch and tap the edge of the bolt to assist with the Loctite to secure the bolts from backing out (pic.ha) Put locating pin ( pic.i ). Press oil pump gear( pic. j,k ) and install the circlip ( pic.l ). Put spacer ( pic. m ). Now the Spears Racing clutch basket is ready to be installed onto the transmission shaft.( pic. n )
6. Install the Spears Racing Clutch basket onto the transmission shaft( pic.o ), install OEM washer onto gear shaft ( pic.p ). Install Spears Racing clutch hub (pic.q ), install nut washer and locking bend over washer ( pic.r )install clutch nut and torque 127Nm ( pic. s,t ), Install push rod (pic.u ).
7. This clutch is designed to use OEM clutch plates from 2003 to current sc650's The Spears Racing Slipper is design to use an extra friction and Steel plate. **ALWAYS USE NEW CLUTCH PLATES** . The newer OEM SV650 clutches use Judder springs(2)two of them **DON'T INSTALL THEM IN THIS SET UP!!**
8. Install pressure plate ( pic. v ) use the springs that came with this clutch they will allow more engine backtorque. Install springs with help of spring retainers and M5 bolts recommended torque is 5.4Nm/47 in lbs. Check the clearance hub / pressure plate in check hole in pressure plate. Correct clearance is about 1mm-1.5mm. In case 0.8mm clearance change all friction plates.
9. There is reduced space to engine cover by model 2002 and older. This critical (pic y). This part of engine cover needs to be removed by 1mm (pic.y,z)
10. Always use new Clutch Cover gasket

### PARTS LIST:

1pc. clutch basket

3pcs. bolt M8

1 pc. Spears Racing clutch hub

1pc. pressure plate

6pcs. spring retainer

6pcs. spring retainer plus preload

6pcs. bolt M5

1pc Red Loctite

Picture A (pic.a)



Picture B (pic.b)



Picture C (pic.c)



Picture D  
(pic.d)



Picture E (pic.e)



Picture F (pic.f)



Picture G (pic.g)



Picture H (pic.h)



Picture HA (pic.ha)



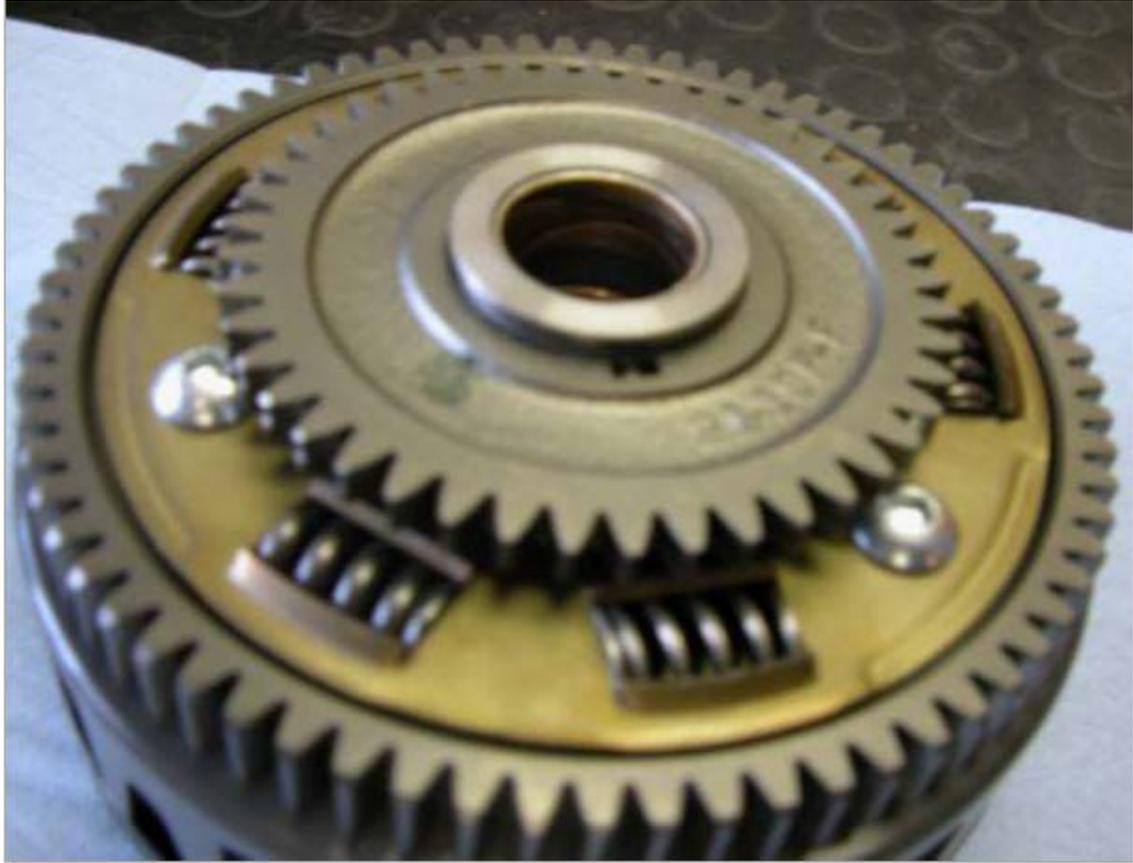
Picture I (pic.i)



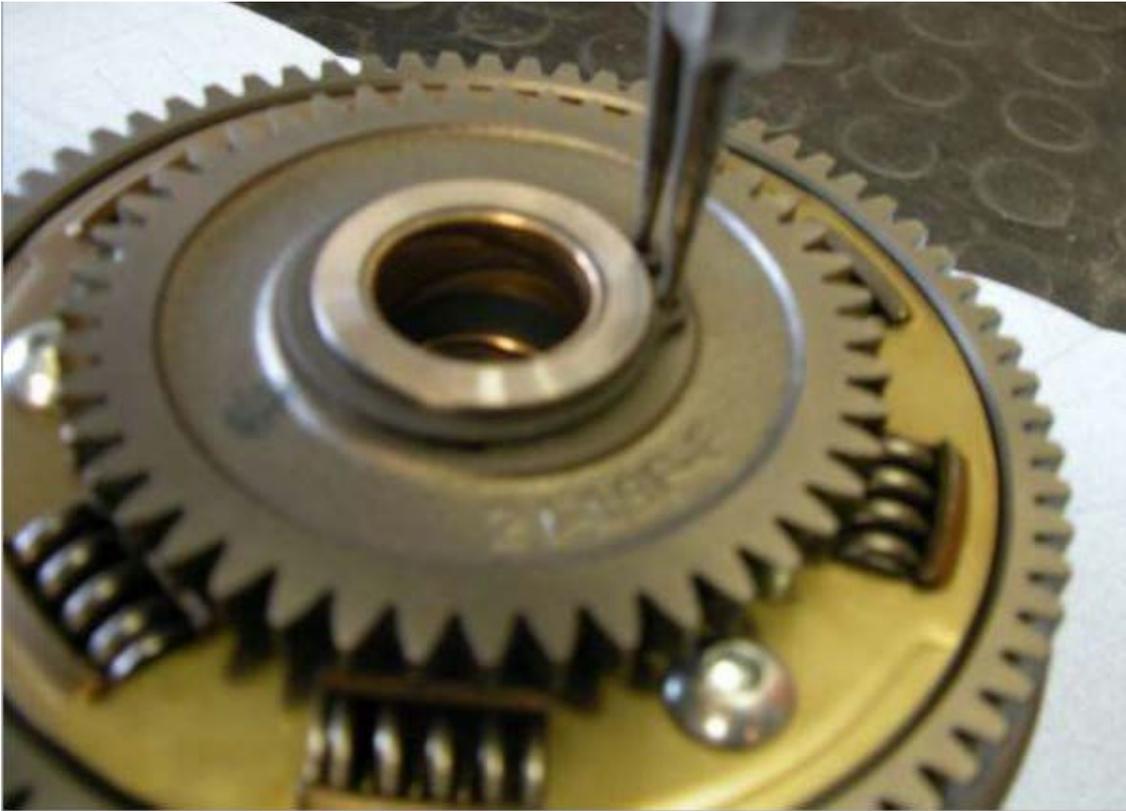
Picture J (pic.j)



Picture K (pic.k)



Picture L (pic.l)



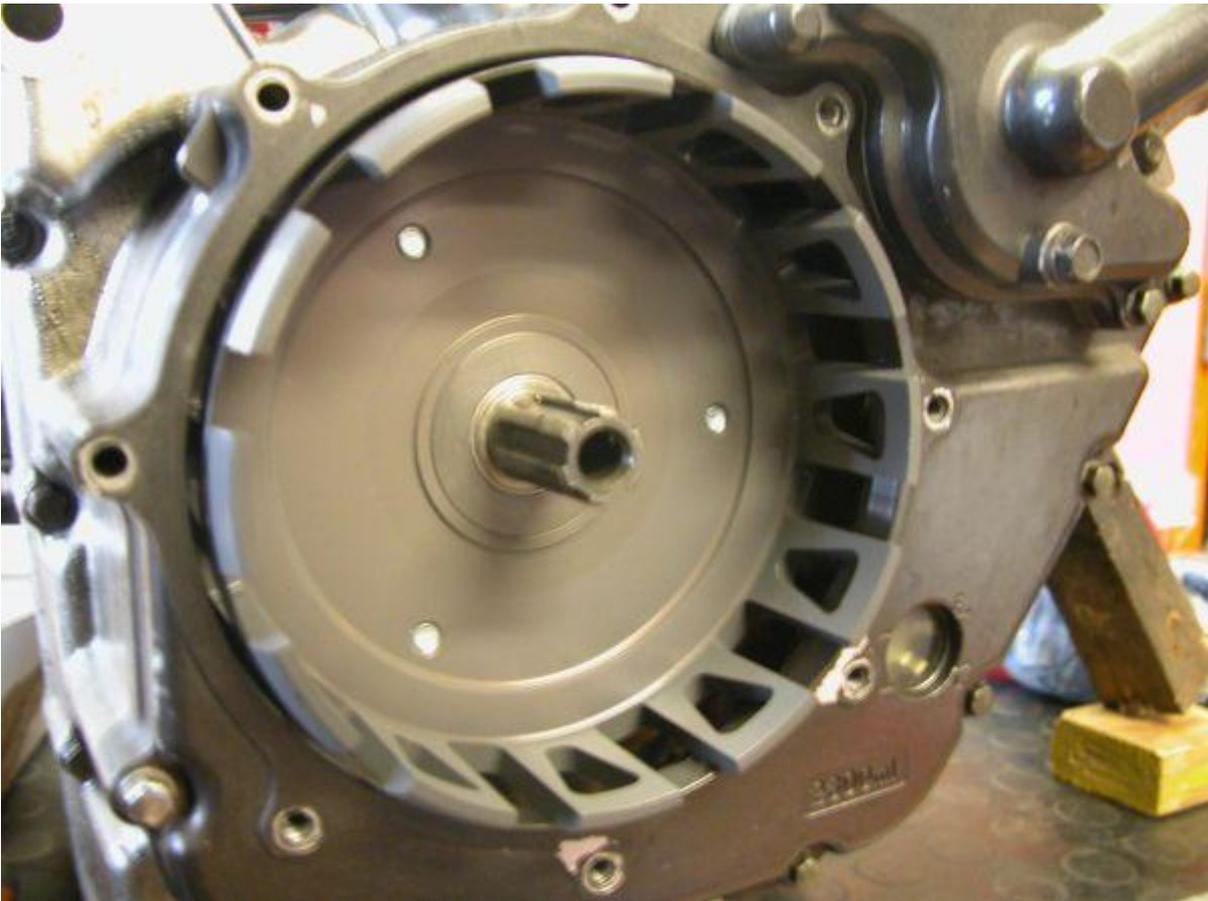
Picture M (pic.m)



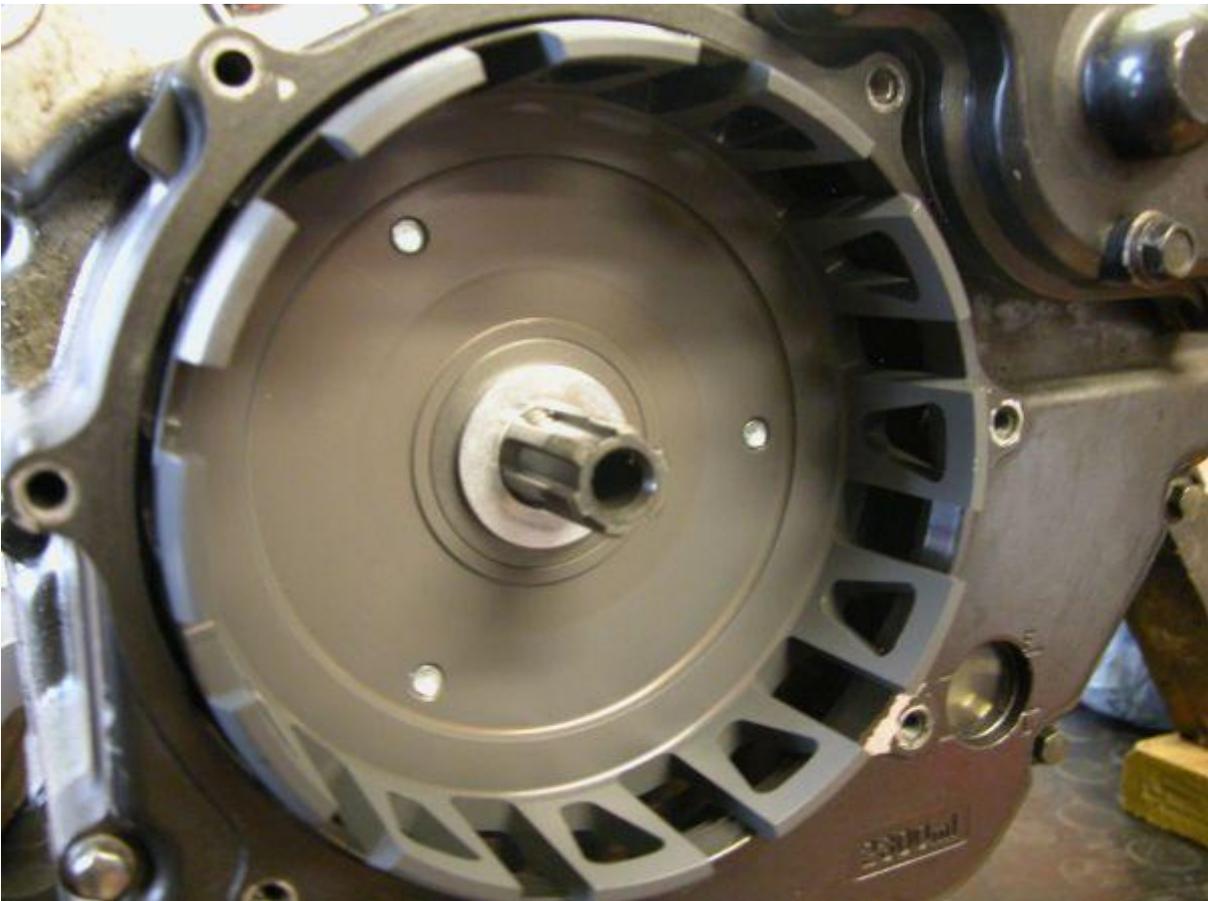
Picture N (pic.n)



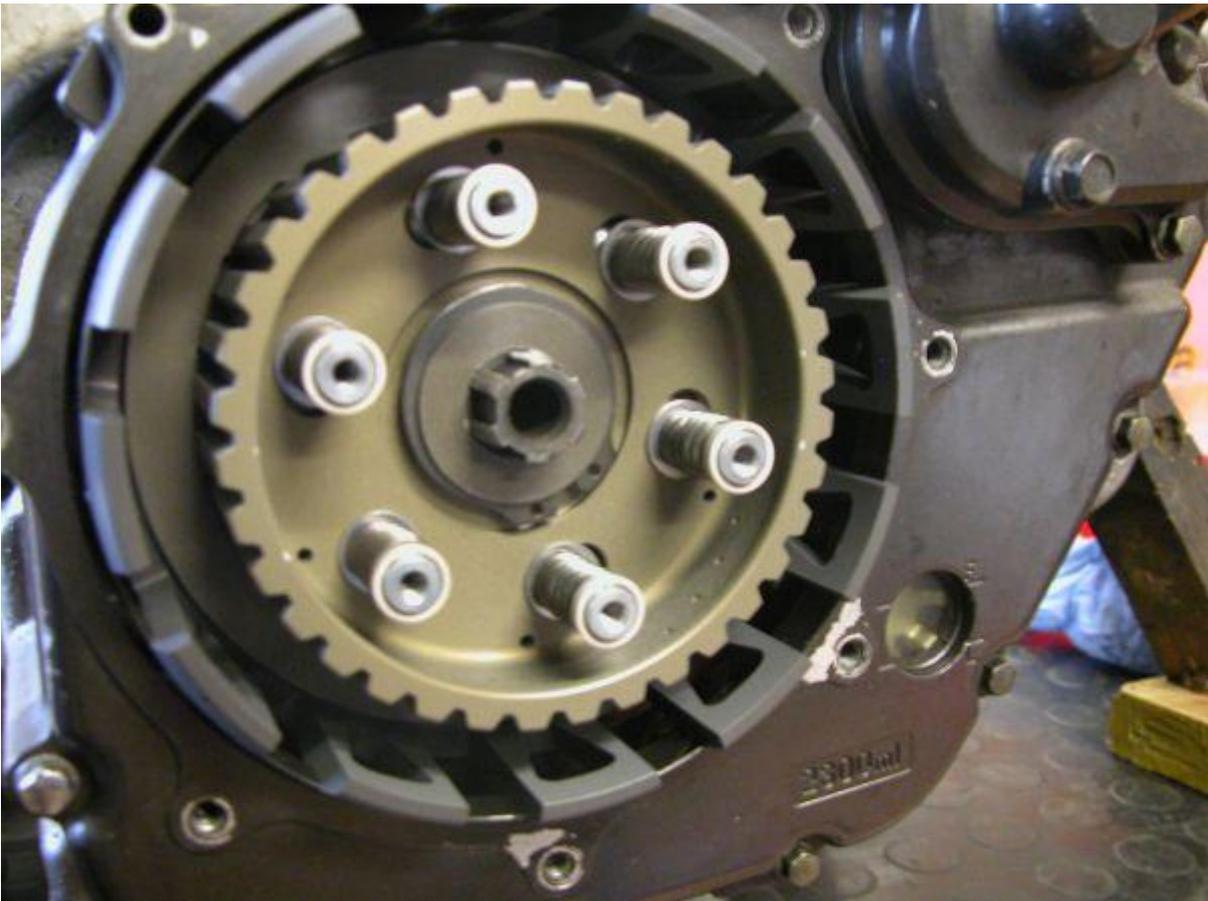
Picture O (pic.o)



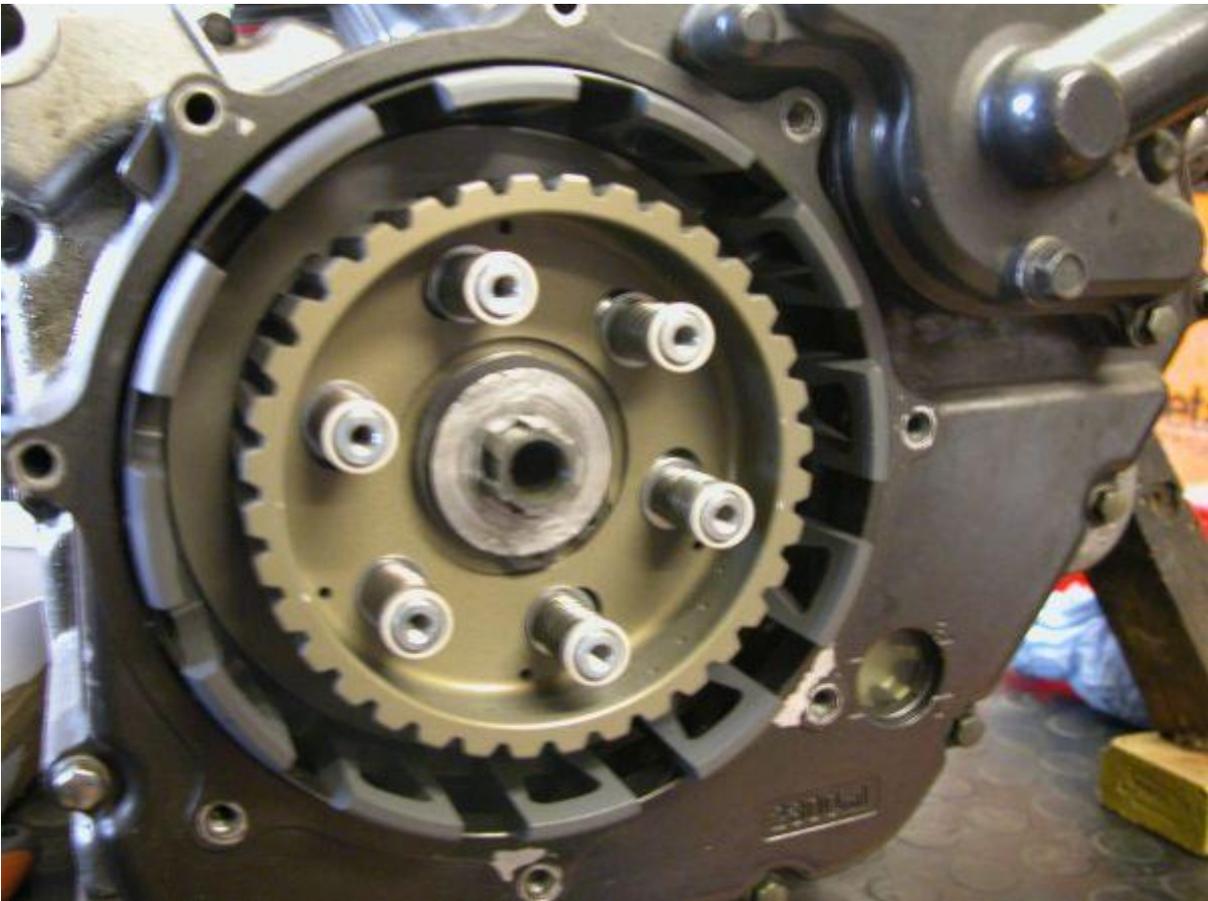
Picture P (pic.p)



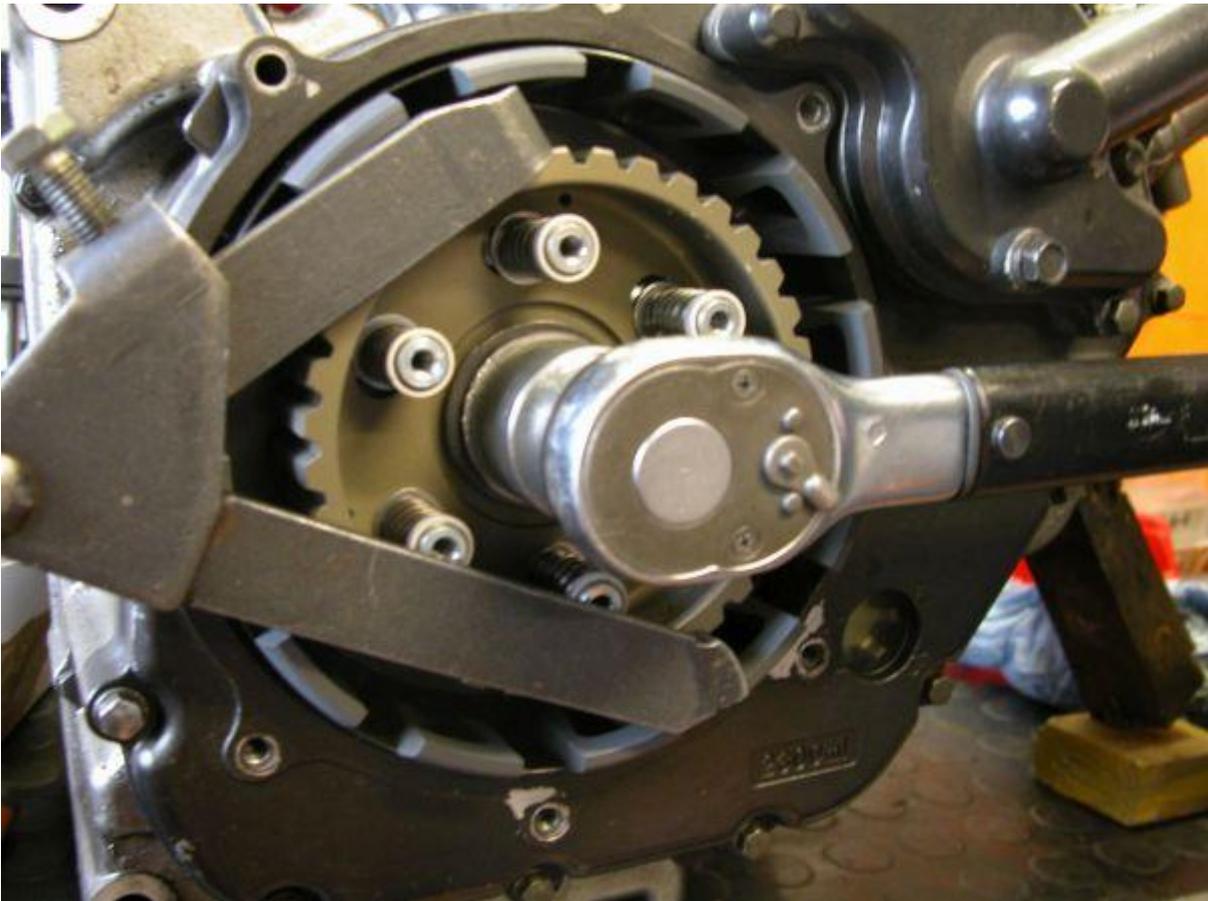
Picture Q (pic.q)



Picture R (pic.r)



Picture S (pic.s)



Picture T (pic.t)



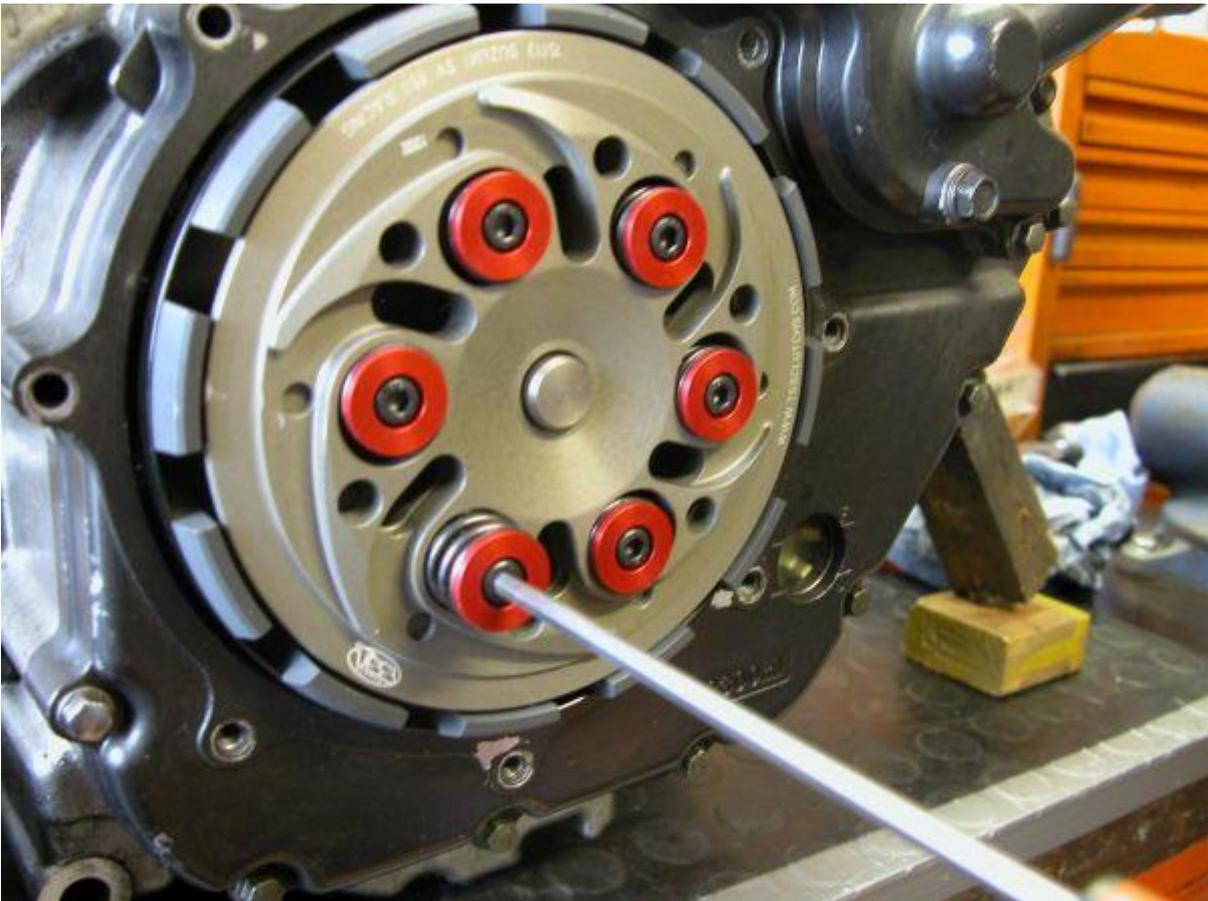
Picture U (pic.u)



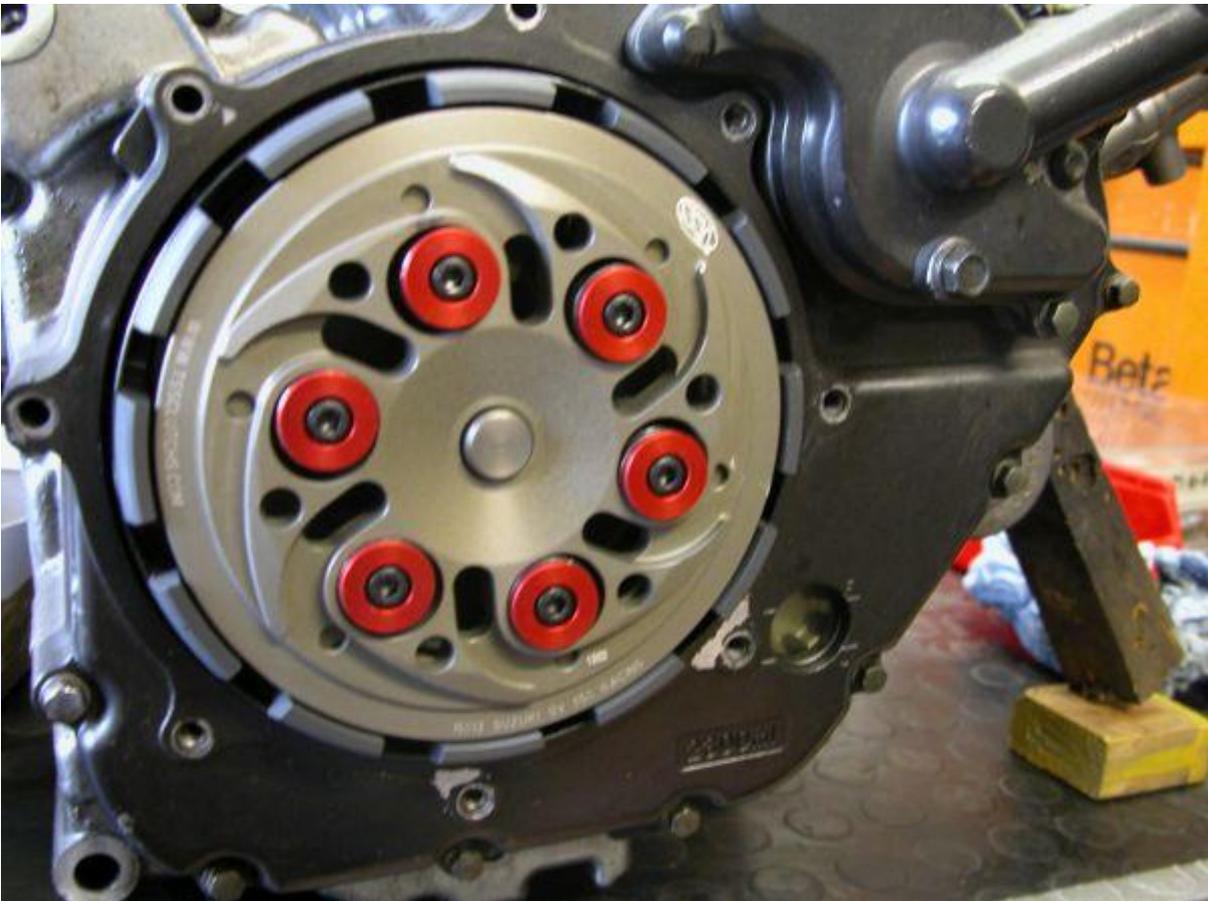
Picture V (pic.v)



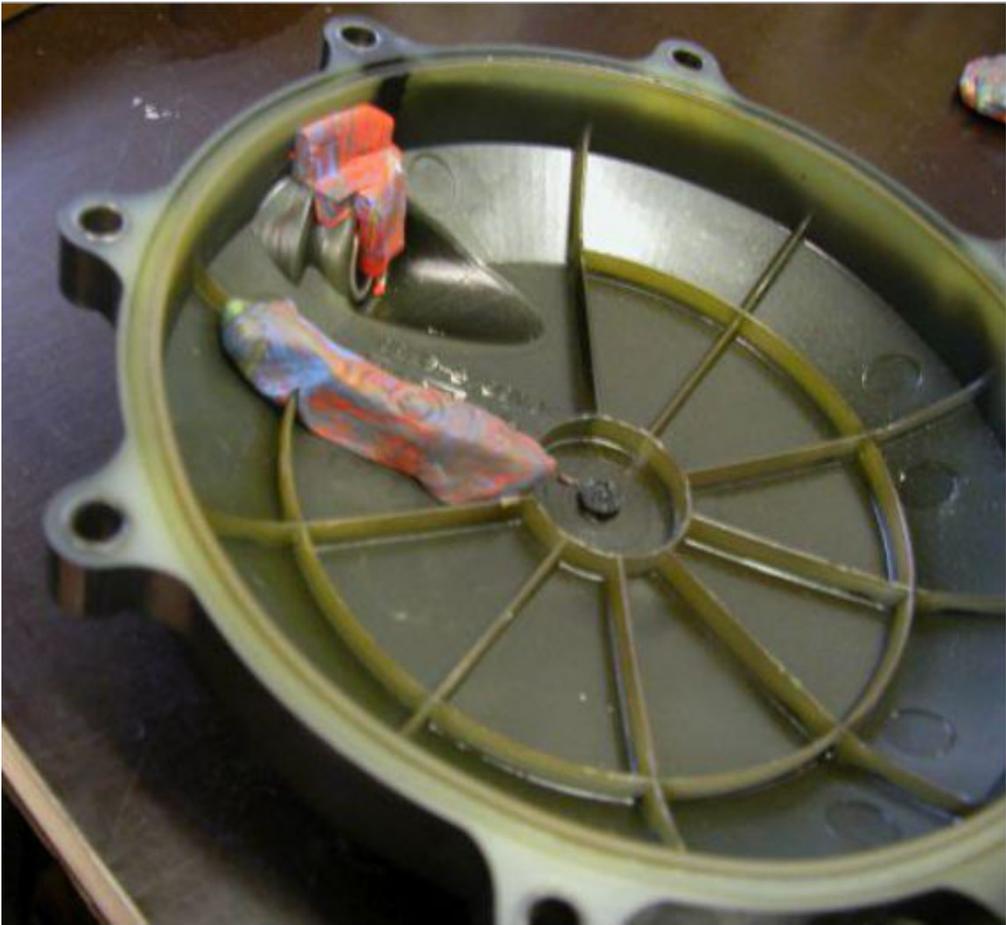
Picture W (pic.w)



Picture X (pic.x)



Picture Y (pic.y)



Picture Z (pic.z)

