



## Spears Racing Kawasaki EX/ER Slipper Clutch Installation (2017 Plus)

Congratulation, you purchased the best Slipper clutch kit for your Kawasaki Ex/Er 650cc.

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 Kawasaki shop manual ), clean threads on the main shaft and big nut from any old locking agents or debris with brake cleaner.
3. Reinstall the clutch basket according to Kawasaki workshop manual.
4. Check washer (STD ) is between basket and Spears Racing Slipper drum, when you reinstall it ( pic.a )
5. Install the Spears Racing slipper drum ( pic.b )
6. Install steel washer ( kit ) ( pic. c ).
7. Install Large nut (OEM) and torque to 127 Nm, use Red Loctite provided ( pic.d, e, f )
8. This slipper clutch is designed for using OEM clutch plates ( pic. g ). But the plates stack is different.
  - For the best performance of this clutch use the following pair friction/ steel plate.
  - Use 8 pcs. OEM friction plates 13088-0566 (thickness 3,0mm )
  - Use 7 pcs. OEM steel plates **Supplied** ( thickness 1,6mm )
  - Total thickness of all clutch plates stack is to be 35.4mm
9. Install push rod and Pressure Plate (pic.h)
10. Install Spears Racing kit clutch springs ( pic. i ), install spring retainers ( Red Tops ), Torque all M5 bolts to 9 Nm. ( pic. j )
11. Check correct squish/height between pressure plate and clutch hub in hole in pressure plate. Correct clearance is 1.0 mm-1.5mm. Minimal clearance is 0.8mm, in cases it is smaller, remove one (1) of the 1,6mm steel plates ( 13089-0038 ) and replace it with one (1) 2,0mm steel plate ( 13089-0021).Doing this will allow you reach correct squish/height
12. Everytime use new clutch cover gasket.

### TUNING TIPS

- If you have strong tuned engine, you can use silver KIT spring retainers (start with Red Tops)
- If you prefer more engine breaking , use silver KIT spring retainers

### LIST OF PARTS

- 1 pc. Spears Racing clutch hub
- 1 pc. pressure plate
- 6 pcs. spring retainers (red tops)
- 6 pcs. spring retainers + preload
- 1 pc. steel washer
- 6 pcs. bolt M5
- 6 pcs. clutch spring
- 1pc. red Loctite
- 7 pcs. Steel Plates



Picture A (pic.a)



Picture B (pic.b)







Picture C (pic.c)



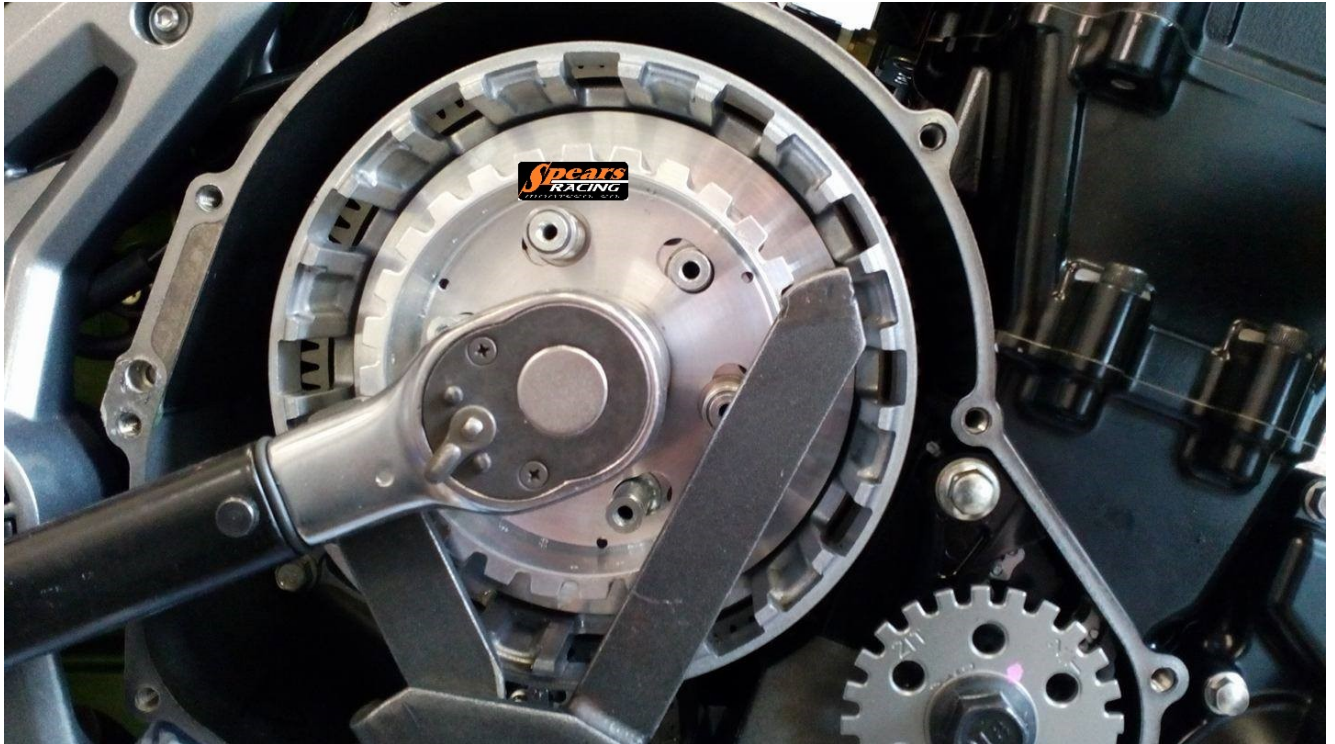
Picture D (pic.d)







Picture E (pic.e)



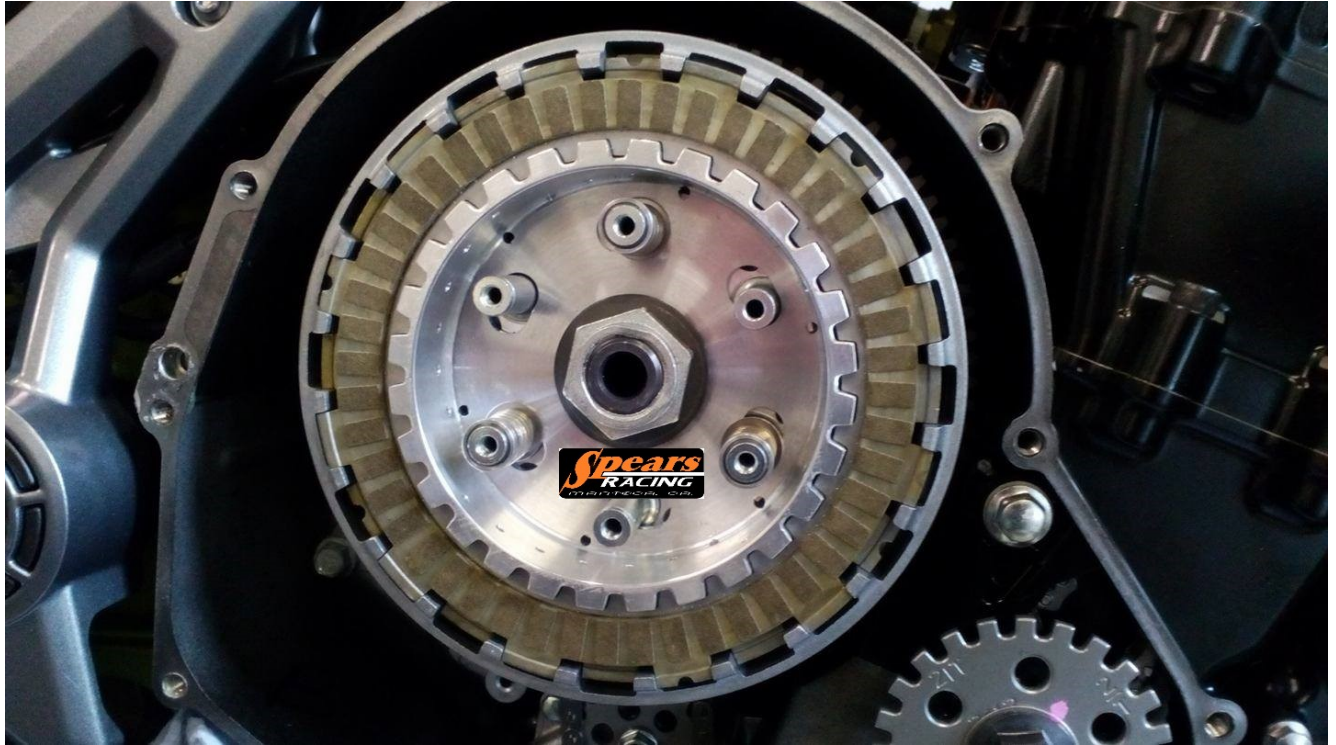
Picture F (pic.f)







Picture G (pic.g)



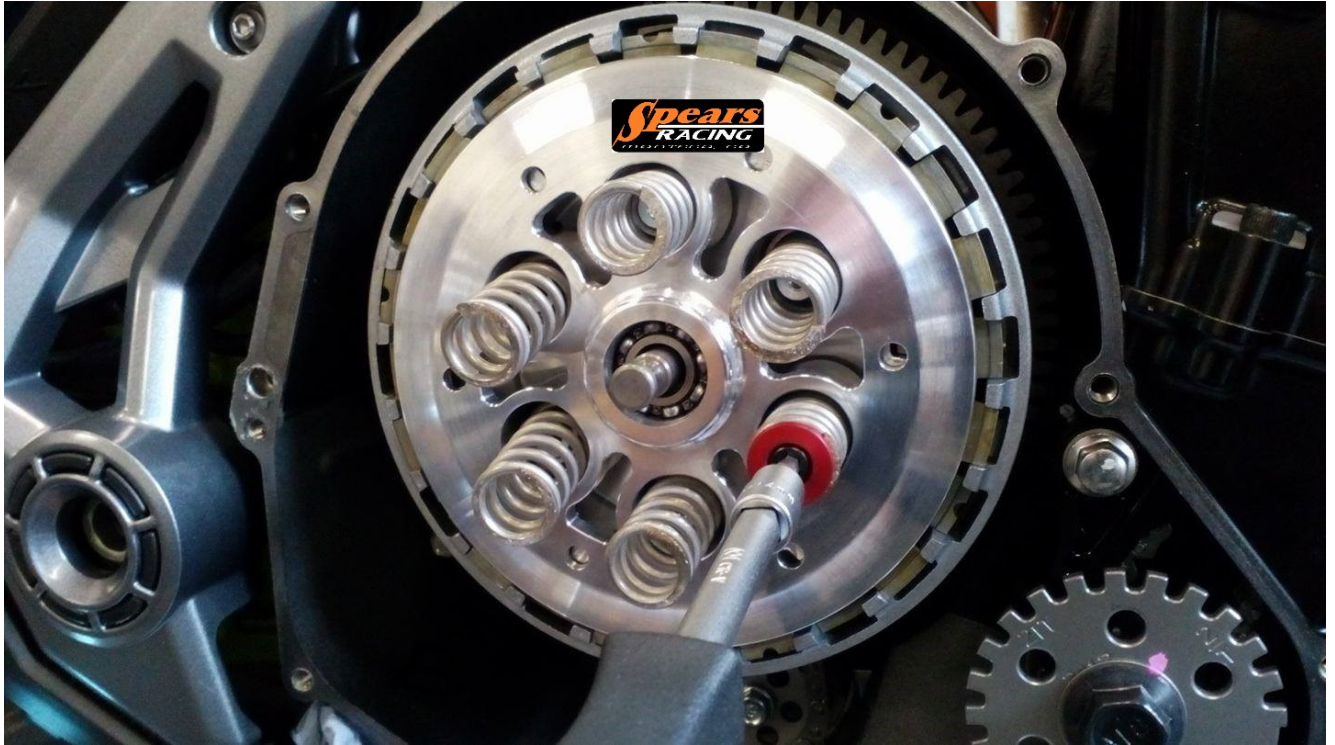
Picture H (pic.h)







Picture I (pic.i)



Picture J (pic.j)

