



## **Spears Racing Kawasaki Ninja 400 Slipper Clutch Installation**

Congratulation, you purchased the best Slipper clutch kit for your Kawasaki Ninja 400.

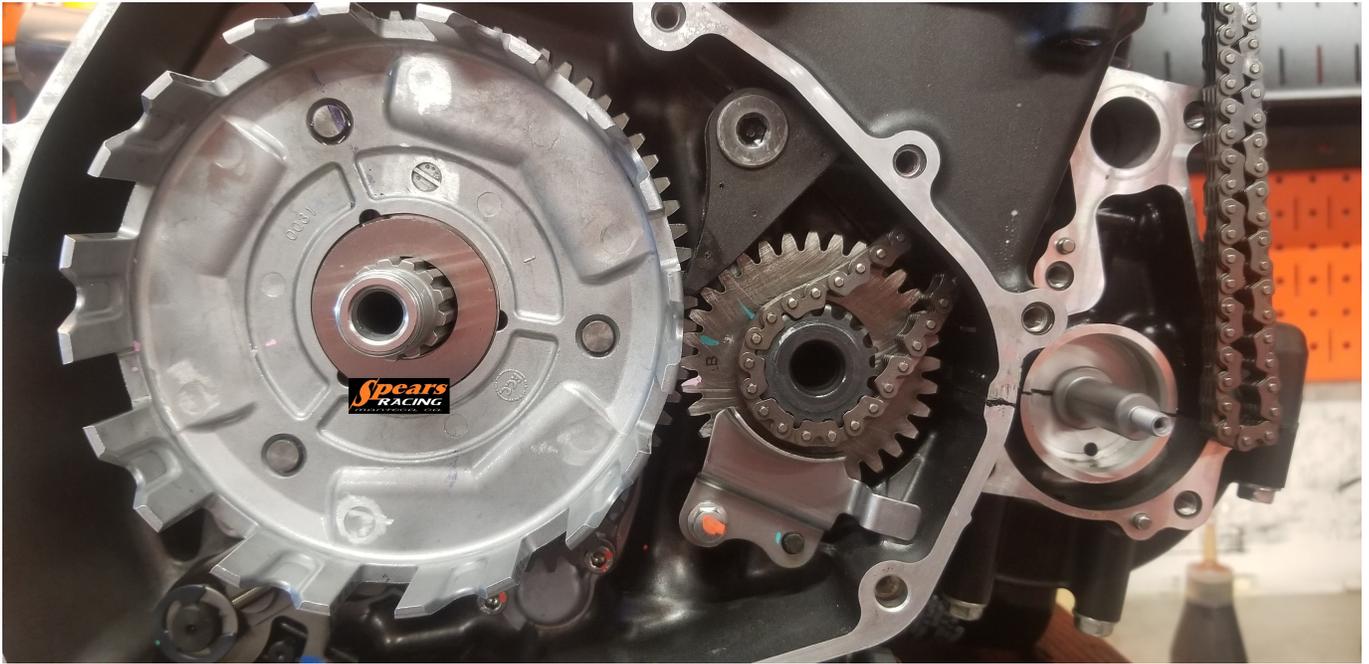
This installation must be done by an experienced race shop, or mechanic.

This clutch is designed for using five SP20-400 Slipper Clutch Springs This clutch is also designed for 1.6mm slim steel plates Kawasaki Part No. 13089-043.

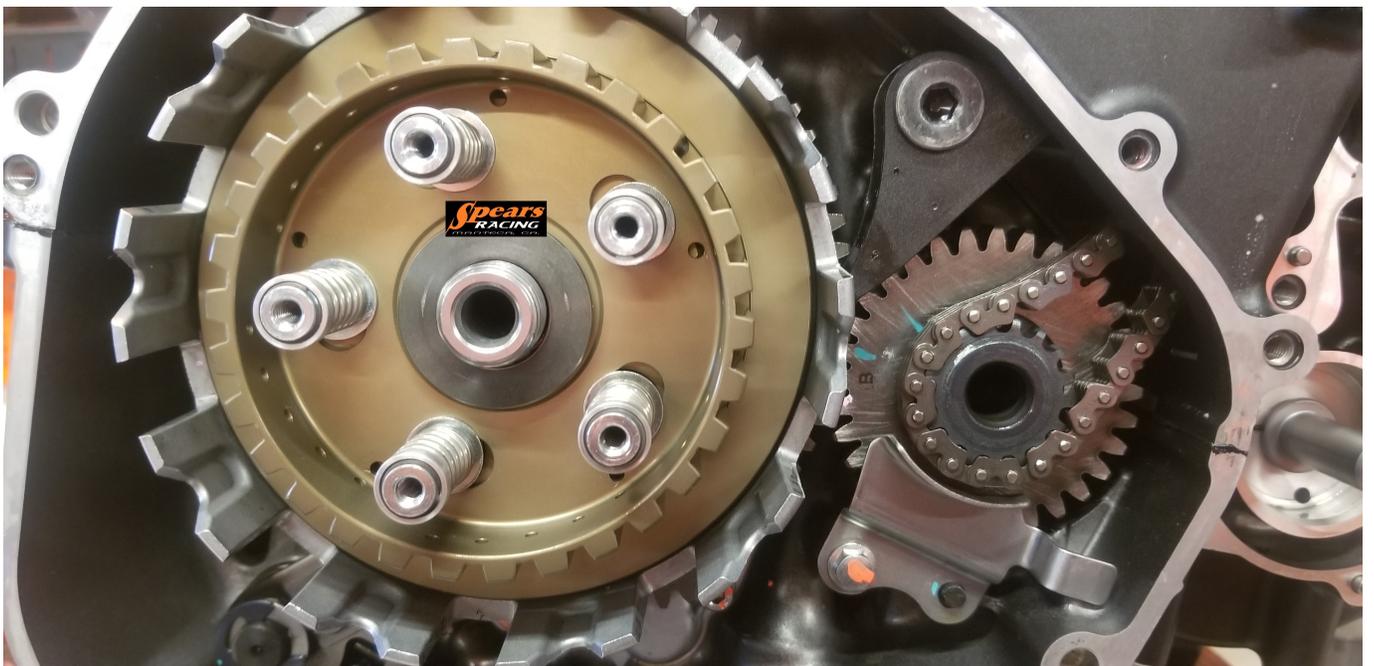
1. Read these instructions before you start. Check if the kit includes all parts listed below.
2. Remove the old clutch hub ( according Kawasaki workshop manual ), clean threads on the main shaft and big nut from any old locking agents or debris with brake cleaner.
3. Put shim ( STD OEM ) between basket and drum, when you remounted it. (pic.a )
4. Install Spears Racing slipper drum. (pic.b)
5. Put ( Curved Steel Washer ) steel washer . (pic.c)
6. Fix big nut ( STD OEM ) with torque 120 Nm and fix it with Loctite No. 620 or similar product. (pic.d)
7. This slipper clutch is designed for using 6pcs. Spears clutch friction plates , and 5 pcs. 1,6mm steel plates. Because of the inaccuracy of manufacturing of plates the required install height(stack height) maybe less than needed between hub and pressure plate. You can reach correct squish with help of different clutch plates thickness. Never set a squish more than 1.5mm (pic.d)
8. Install push pin ( STD OEM ) to push rod.(pic.e)
9. Install pressure plate. There is bit small axial squish between push rod and gearbox shaft from Kawasaki. Check this after fixing pressure plate. (pic.f)
10. Put clutch springs , put spring Top sets , Torque all with M5 bolts to 6 – 8 Nm. Check correct squish between pressure plate and clutch hub in bore in pressure plate. Correct clearance is 1.0 mm-1.5mm. Minimal clearance is 0.8mm, in case it is smaller, change all friction plates, or adjust it with help of 2.0 and 2.3mm steel plates from Kawasaki .(pic.g)
11. We recommend a new clutch cover gasket.
12. Mount case cover according to Kawasaki workshop manual.
13. Adjust clutch lever free play first, 3mm off from tightened adjuster. After adjust clutch cable on engine case.
14. Recommendation for track day or racer due to increasing heat on clutch, the recommendation of free play on lever 3-5mm. After the engine cools down again, the free play decreases again to 3.5mm.
15. NEVER MAKE FREE PLAY ADJUSTMENTS WHEN THE ENGINE IS HOT!!!

### **16. List Of Parts:**

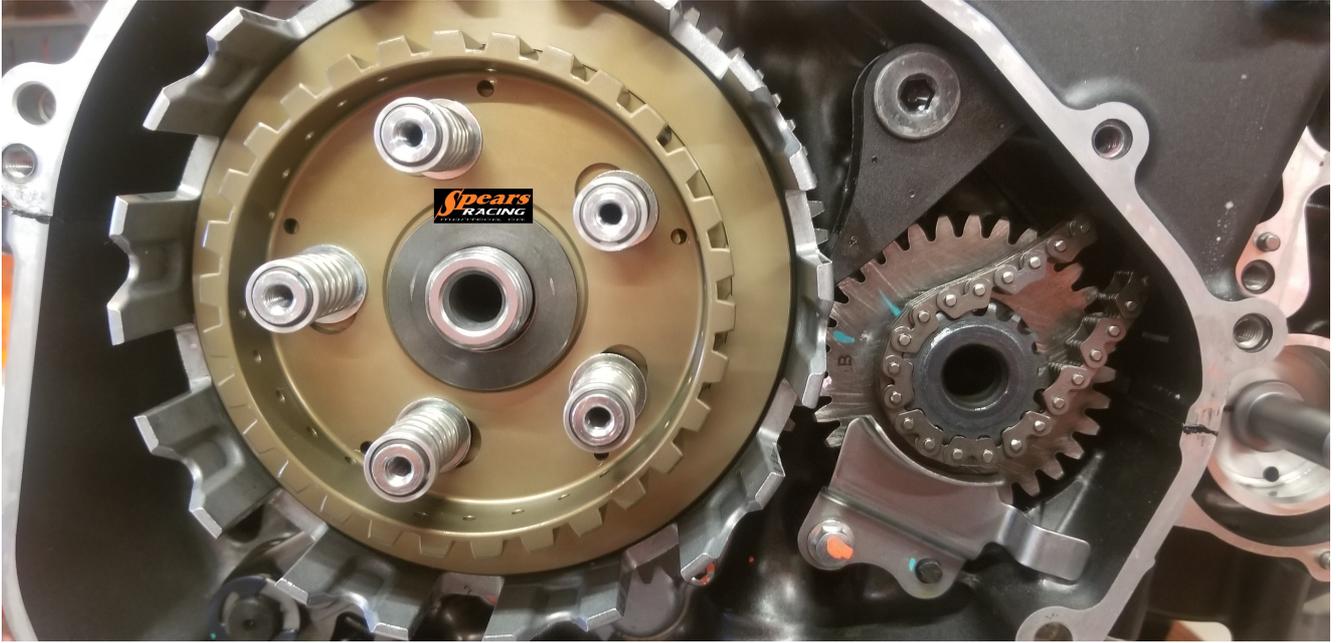
- 1 pc. Spears Racing Slipper Drum
- 1 pc. pressure plate
- 5 pcs. spring Tops set
- 5 pcs. spring Tops set for more preload ( more engine backtorque )
- 5 pcs. bolt M5
- 5 pcs SP20-400 Slipper Clutch Springs



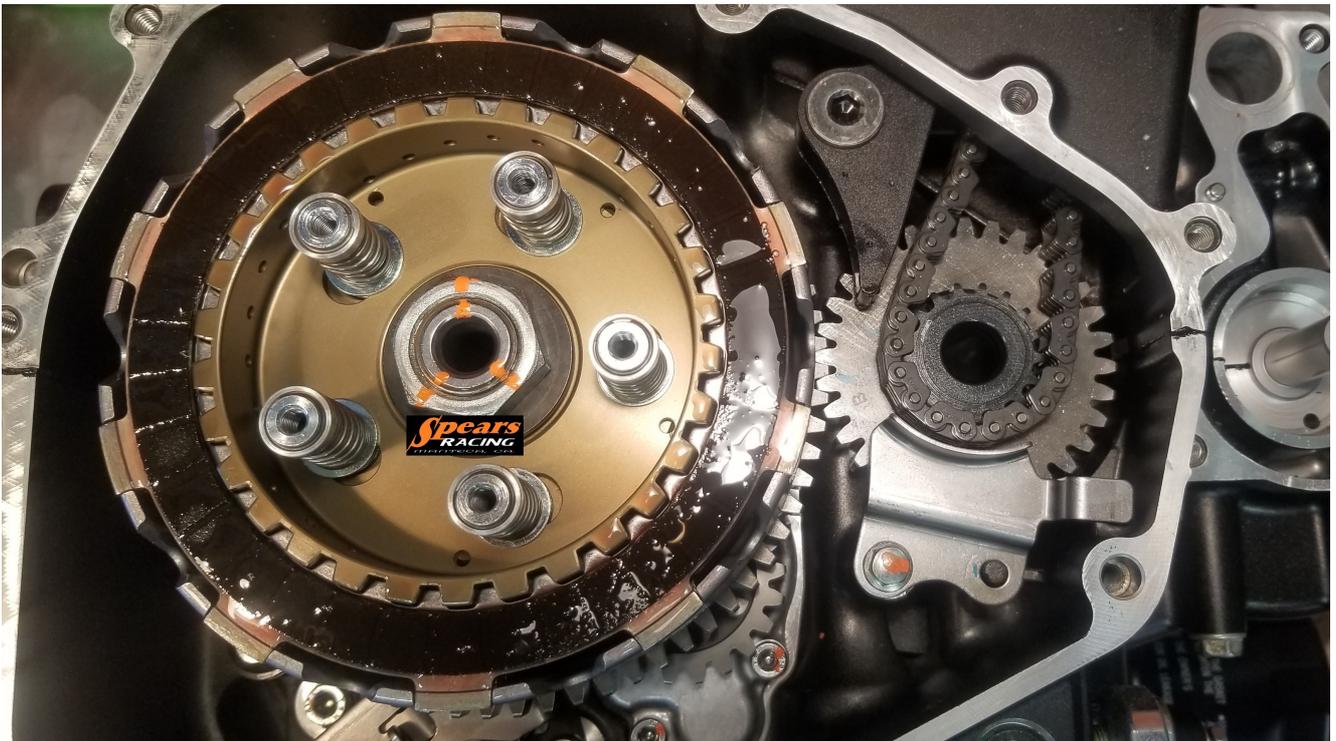
Pic.a



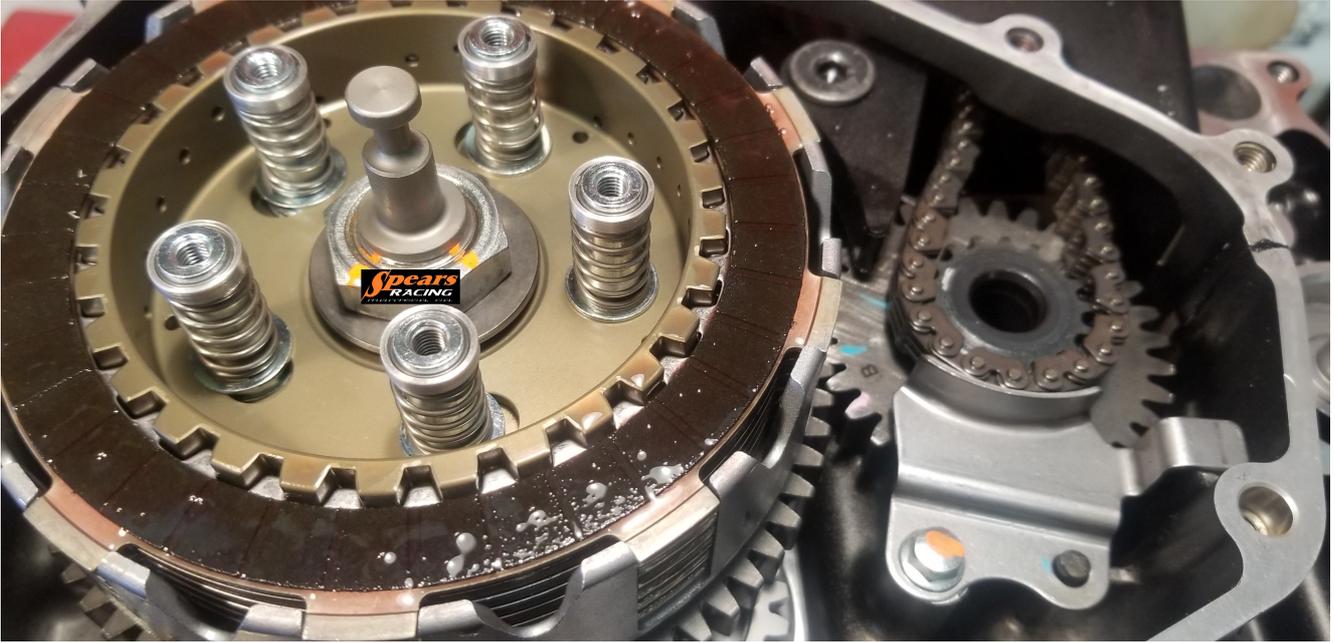
Pic.b



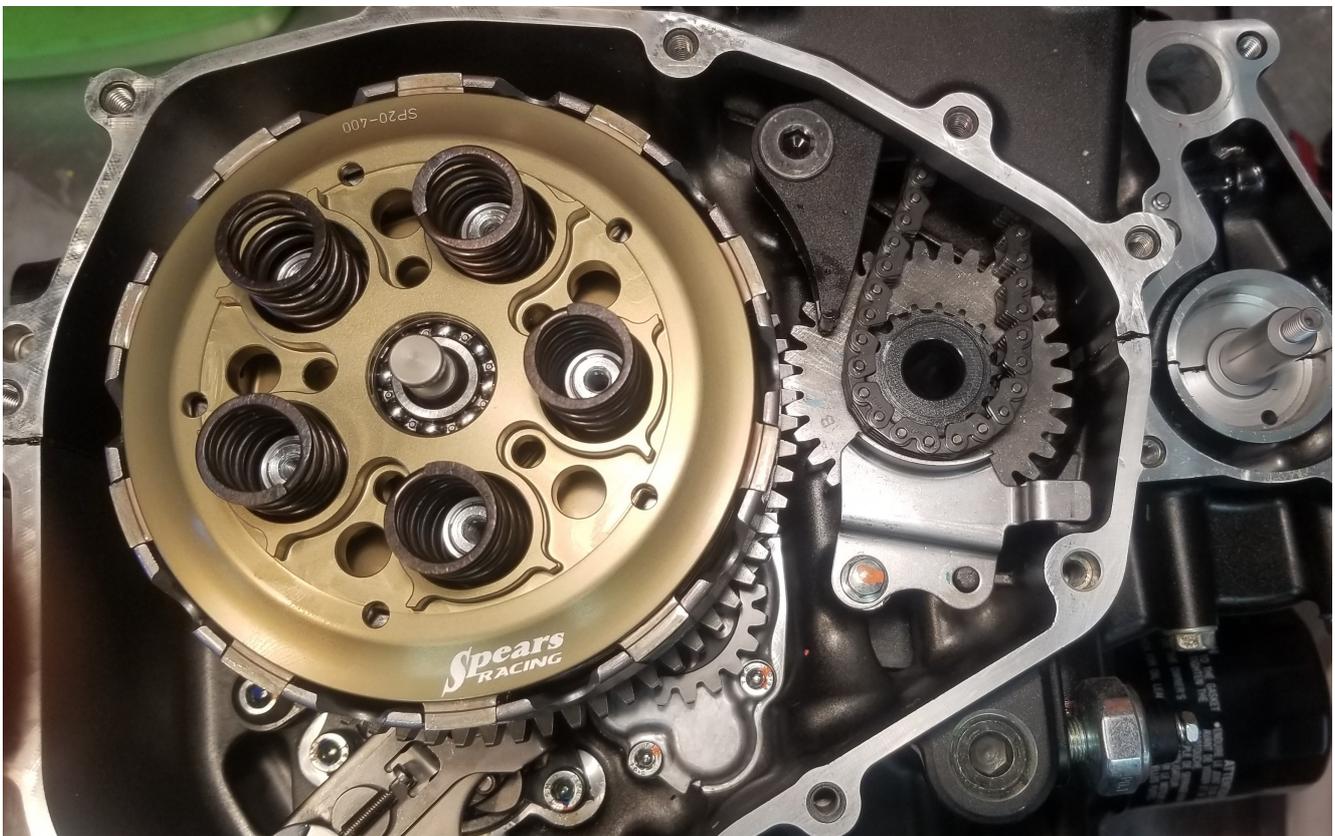
Pic.c



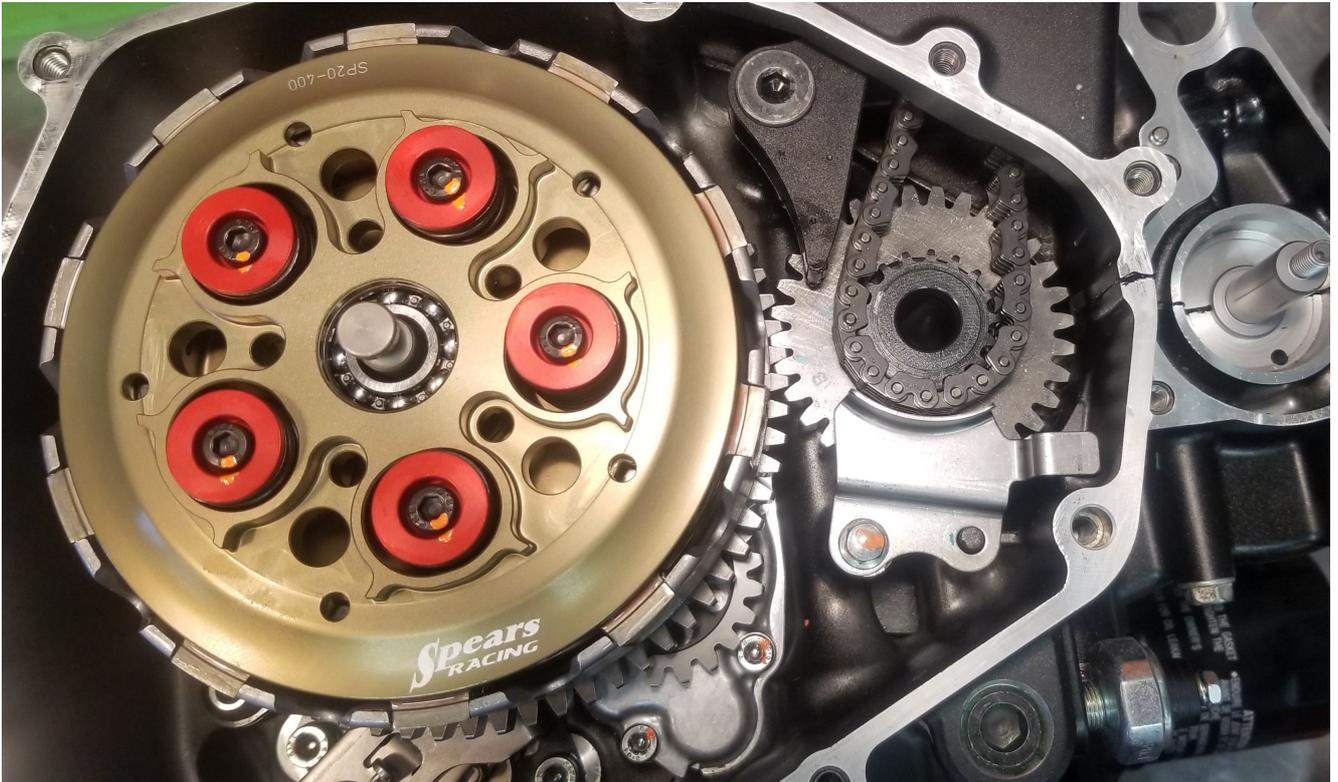
Pic.d



Pic.e



Pic.f



Pic.g