



Spears Racing Yamaha R3 Slipper Clutch Installation

Congratulation, you bought one of best Slipper Clutch Kit for your Yamaha R3. This installation must be done by an experienced race shop, or mechanic. This clutch is designed for using four SP20-320 Slipper Clutch Springs

1. Read this instructions with photos before you start. Check if the Kit includes all parts listed below .
2. Remount the old clutch hub (according Yamaha 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. (A) Aa)
4. Install Spears Racing Slipper Drum (B).
5. Put Spring Steel washer from Kit (C).
6. Fix big nut OEM(C) with torque 110 Nm and fix it with Loctite Provided(C).
7. Install all clutch plates in same position as OEM (C)
8. Reinstal STD pull rod and install it into kit pressure plate (D).
9. Install pressure plate (D).
10. Put SP20-320 clutch springs (Provided in Kit)in position as before, put springs with kit (RED)retainers , fix all with M5 bolts with torque 6-8 Nm.
The kit includes a set of Heavy duty springs. This springs are for reaching more engine backtorque. If the rider prefers less backtorque, use STD springs.
11. Adjust clutch lever free play first, 3mm off from tightened adjuster. After adjust clutch cable on Clutch Perch.
12. Check correct clearance between pressure plate and clutch hub in bore in pressure plate. Correct clearance is ca. 1.0 mm-1,5mm Minimal clearance is 0.8mm, in case it is smaller, change all friction plates .
13. Every time use new clutch cover gasket.
14. Mount case cover according to Yamaha workshop manual.
15. NEVER MAKE FREE PLAY ADJUSTMENTS WHEN THE ENGINE IS HOT!!!

LIST OF PARTS

- 1 pc. Spears Racing Slipper Drum
- 1 pc. pressure plate
- 1 pc. big kit washer
- 4 pcs. spring retainers (Red)
- 4 pcs. spring retainers for more preload (more engine backtorque)
- 4 pcs. bolt M5
- 4 pcs. SP20-320 Slipper Clutch Springs

(A)



(Aa)



(B)



(C)



(D)

