

NSF 250 R MOTO3 SLIPPER CLUTCH

20603 Antihopping slipper clutch HONDA NSF250R – mounting instructions

Congratulations, you bought one of the best clutch systems for your Honda Moto 3. This clutch is developed for experienced racing teams and is extremely lightened for improved racing performance.

This clutch is best installed by an experienced Honda workshop, or mechanic.

1. Read these instructions with photos before you start. Check if the set includes all parts.
2. Remove the old clutch drum (according to Honda workshop manual), clean thread on the shaft from old glue with brake cleaner.
3. Put shim (STD) between basket and drum, when you replace it (pic. A).
4. Check if the balls and locking rollers are in their correct position (pic. B)
5. Install clutch hub, be careful to not let the balls or rollers jump out into engine case (pic. C), it helps when you temporarily install one or two clutch springs with retainers to unitize the clutch.
6. Install the steel washers (pic. D), and the spider spring (pic. E).
7. Tighten the main nut (pic. F) with a torque of 54 Nm and secure it with Loctite No. 620 (RED). (fig. G).
8. Remove clutch spring with retainers (pic. H).
9. This clutch is designed for Honda standard clutch plates and springs. The standard clutch plates package has in the first position a friction plate with larger inside diameter and anti-judder ring (pic. I). NEVER INSTALL in the 1st position. Install a normal friction first, then steel plate, and after this the special friction plate with anti-judder rings. The remaining plates fit as normal (pic. I).
10. Install the push rod (pic. K)
11. Install pressure plate
12. Install STD clutch springs, install spring retainers, tighten all M5 bolts with torque 8 Nm (pic. L).

Check for the correct clearance between pressure plate and clutch hub via the small holes in the pressure plate. Correct clearance is 1.0 mm. When worn plates decrease the clearance to 0,5 , replace all friction plates. Change all the friction plates to new ones.

13. Mount engine cover according to Honda workshop manual.
14. Adjust clutch cable

TUNING TIPS

This clutch set is equipped with three sets of spring retainers for optimizing engine back torque. By using their combination you reach best function for each track and rider. Basic retainers have same spring preload as standard clutch, in case you use more powerful tuned up engine, it can happen, that the engine starts to spin (clutch slips) under power. Use more preload retainers in this case

LIST OF PARTS

- 1 pc. Two-piece clutch drum
- 1 pc. spider spring
- 5 pcs. steel ball
- 5 pcs. steel roller
- 1 pc. pressure plate
- 5 pcs. spring retainer basic
- 5 pcs. spring retainer +0.5mm more preload"
- 5 pcs. spring retainer +0.8mm more preload
- 5 pcs. bolt M5
- 1 pc. main nut
- 1 pc. steel washer