



2020+ Beta Steel Oil Pump Gear Kit

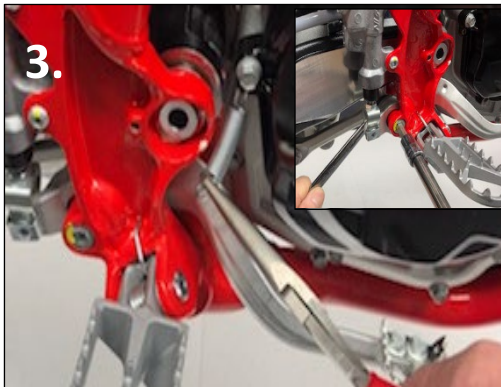
Part# AB-12116

Fits: Beta 2020+ RR/RR-S 4-stroke

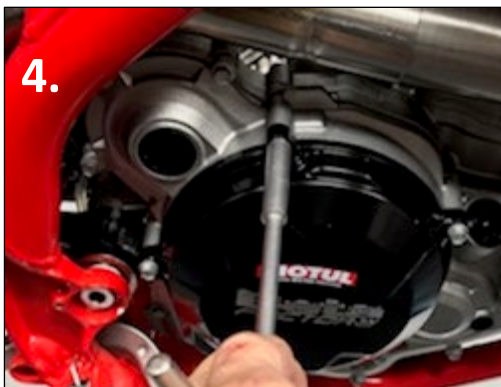
Installation Instructions



1. Drain the transmission oil. Replace the drain plug and torque to 20 Nm.



2. Drain the coolant by removing the lower water pump cover bolt and washer. Loosen the cap to start flow into a clean container. Remove the 2 remaining water pump cover bolts and the cover.



3. Remove the rear brake pedal return spring, then the brake pedal nut and bolt.



4. Remove the top 3 outer clutch cover bolts then remove the inner 8 clutch cover bolts. Remove clutch cover assembly.



5. Remove the 6 clutch bolts, washer, springs, and the pressure plate.



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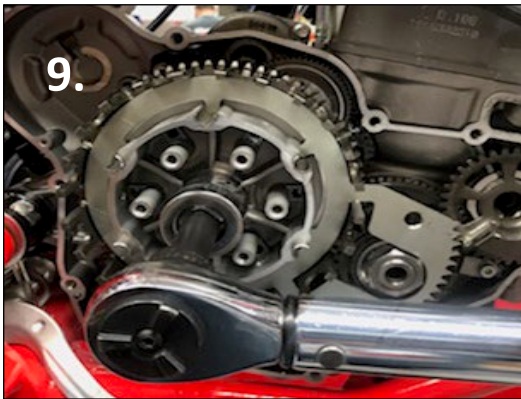
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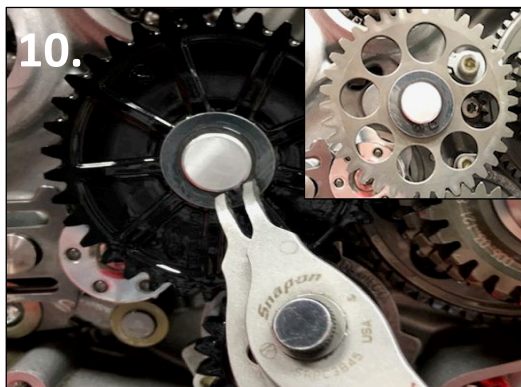
6. Remove the throw out bearing assembly.

7. Using a chisel, lightly tap the safety tabs away from the lock nut.

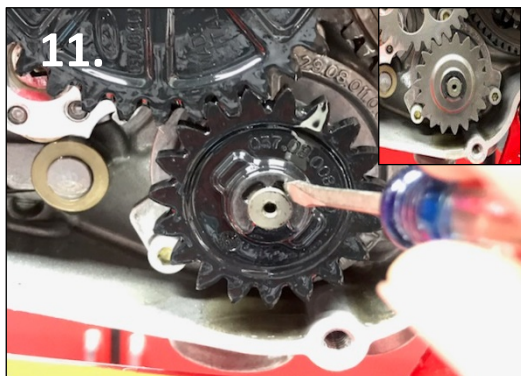


8. Remove the clutch fiber and steel plates leaving the 6 sliding pins

9. Install the clutch holding tool (029-140025-000) and remove the 27mm lock nut. Remove the inner hub and clutch basket.



10. Remove the snap ring and thrust washer from the large oil pump gear. Remove the gear and install the new steel gear. Re install the thrust washer and snap ring making sure it is fully seated.



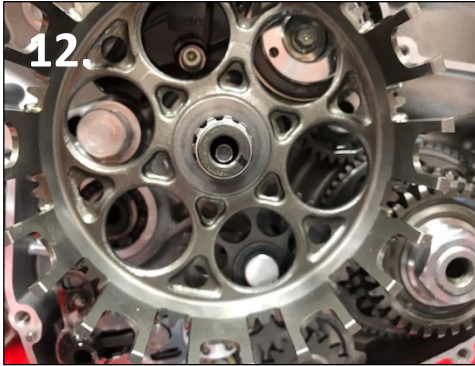
11. Use a small flat blade screw driver to lightly pry the E clip from the shaft holding the small oil pump gear. Apply Pressure to the clip with your finger to make sure it doesn't fly away. Remove the small gear and install the new steel gear. Reinstall the E clip making sure it is fully seated.



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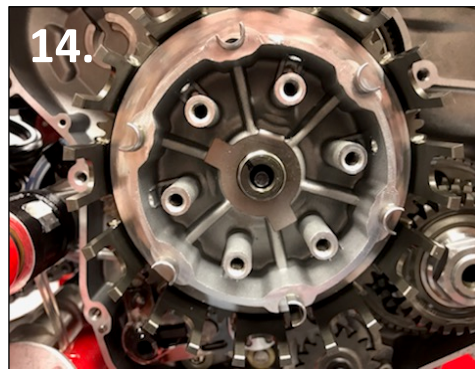
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12.

12.Re install the clutch basket. You will have to rotate the oil pump gears to get them aligned with the clutch basket. If you do not do this key step you may damage the oil pump gears



14.

13.Install the large washer and the inner hub with the 6 sliding pins.

14.Install the new safety washer and lock nut. Apply medium strength Loctite to nut and with the holding tool in place torque the nut to 120 Nm. Then fold the tabs on the safety washer over the lock nut.



15.

15.Re install the clutch plates noting the fiber plates with the blue mark go on the furthest out positions and the green marked plates going on the inside. The smooth or curved side of the plates will all be facing the engine.



17.

16.Re install the throw out assembly.

17.Install the pressure plates, 6 springs, washer & bolts. Torque the bolts to 10 Nm.



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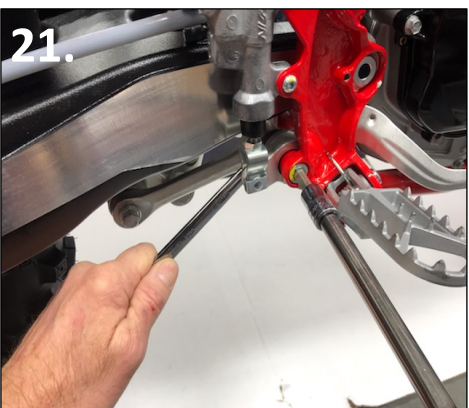


18. Clean the gasket area surfaces of the case and inner clutch cover. Install the gasket and the clutch cover assembly.



19. Insert the 3 bolts into the outer clutch cover and the 8 bolts on the inner cover leaving them loose.

20. Install the water pump cover and the 3 bolts making sure the copper washer is on the bottom bolt. Tighten all bolts in a crisscross pattern to 10 Nm.



21. Install the brake pedal bolt and nut applying high strength Loctite to the threads.

22. Re install the brake pedal spring. Install the transmission drain plug and torque to 20 Nm. Fill the transmission with 850cc's of gear oil.



23. Refill the cooling system. You are now ready to ride!