



2020+ 4 Stroke Kickstart Kit

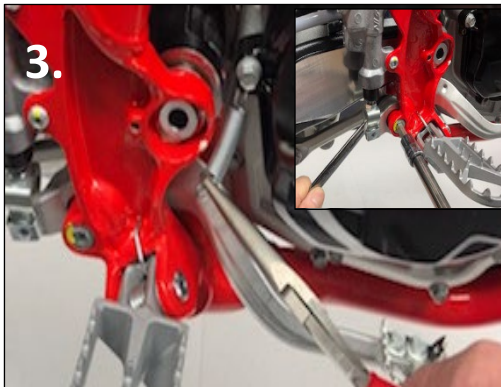
Part# AB-21193-20

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

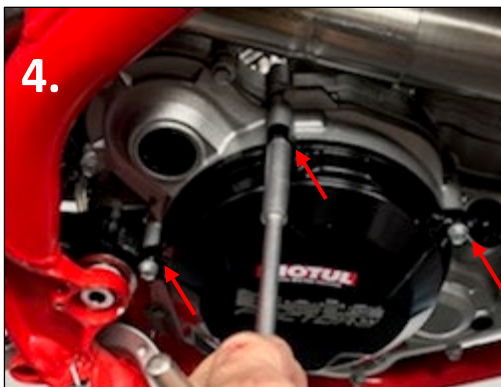
Installation Instructions



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 radiator 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.

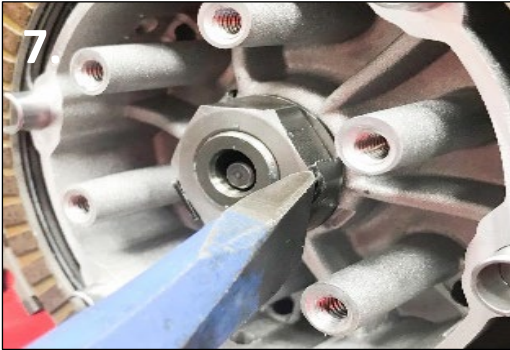
5. Remove the 6 clutch bolts, washer, springs, and the pressure plate.



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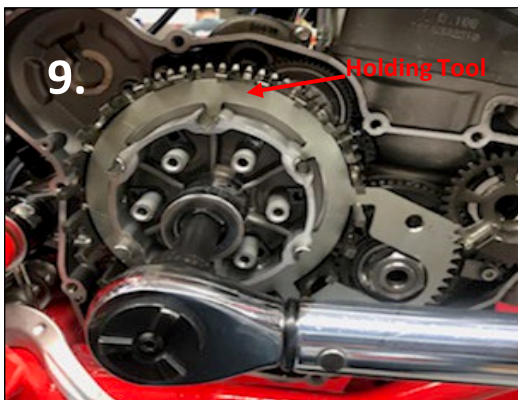
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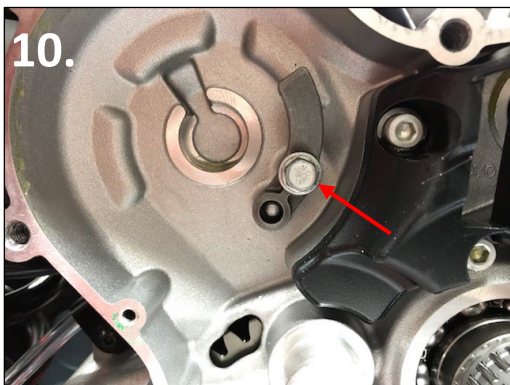
6. Remove the throw out bearing assembly.

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. Install the ramp into the case with the m6x25 bolt. Apply medium strength Loctite to the threads.



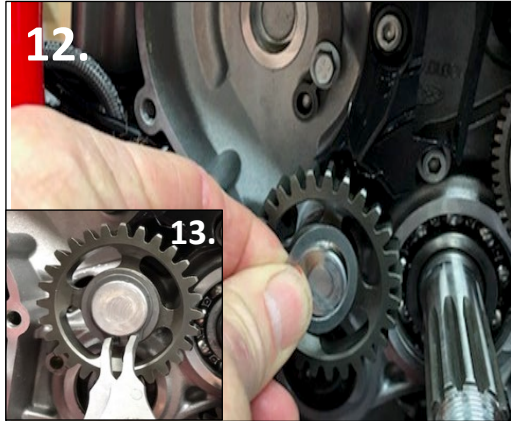
11. When installing this brass bushing you must use sandpaper and clean up the inside of the bushing as well as chamfering the outer side of the bushing that will be facing the engine. You still want it to be fairly snug. Apply grease to the inside of the bronze bushing and using the supplied installation tool, tap it into place on the idler gear shaft.



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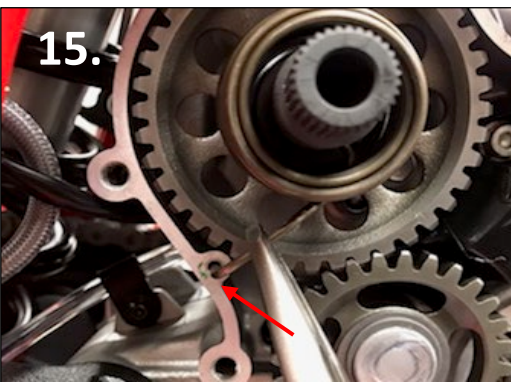
12. Apply oil to the bushing then install the idler gear with the shoulder facing the engine. Make sure it rotates freely!



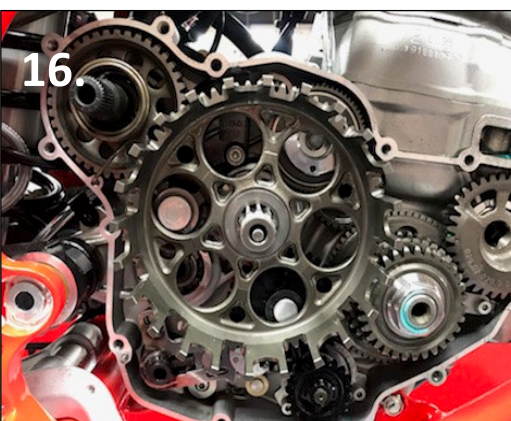
13. Install the thrust washer and snap ring making sure it is fully seated



14. Install the kickstart assembly into the housing with the splined side facing outwards. Make sure the ramp is positioned straight up so once it is installed it will go behind the ramp on the case.



15. Carefully rotate the spring clockwise and secure the end into the hole located on the case.



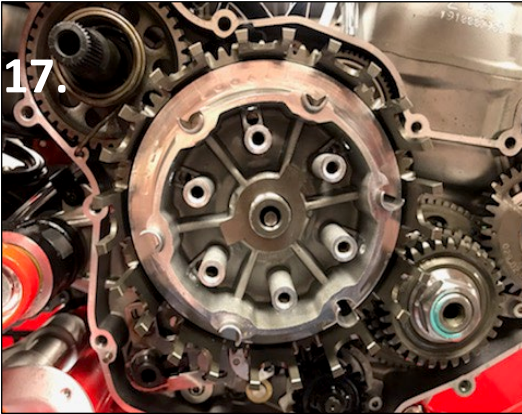
16. Re install the clutch basket. You will have to rotate the oil pump gears to get the gear on the clutch basket aligned



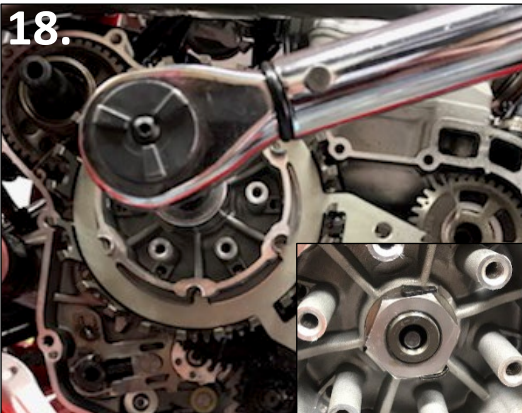
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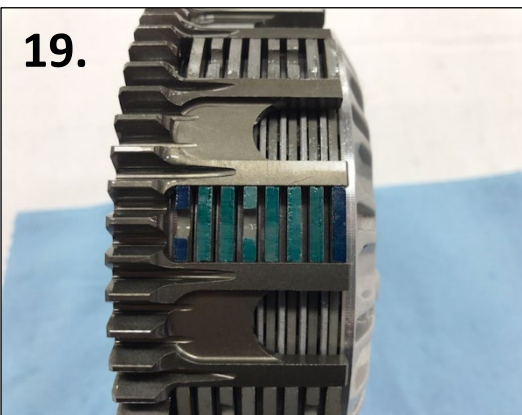
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17. Install the large washer and the inner hub with the 6 sliding pins. Install new safety washer.



18. Apply medium strength Loctite to the nut and with the clutch holding tool in place, torque nut to 120nm. Fold the tabs of the safety washer over the lock nut.



19. Re install the clutch plates noting that the fiber plates with the blue mark go on the most inward and outward position and the green marked plates go in the middle. The smooth or curved edge steel plates all go in facing the engine.

20. Re install the throw out assembly.



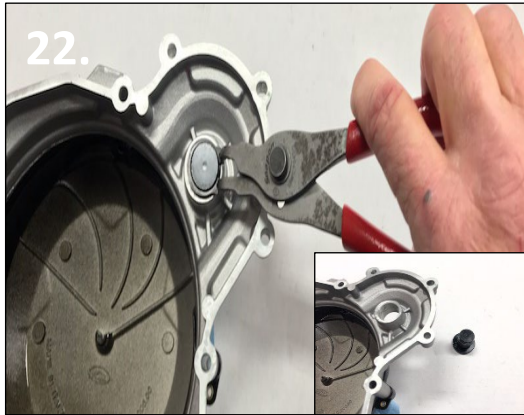
21. Install the pressure plates and the 6 springs, washers, and bolts. Torque the bolts to 10nm



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22. Remove the snap ring from the plug in the inner clutch cover then push the plug out, this is where the kick starter shaft will come through. Install the kickstart shaft seal.



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



24. Insert the 3 m6x60 bolts into the top 3 holes of the outer clutch cover and 8 m6x25 bolts into the holes of the inner cover leaving them loose.



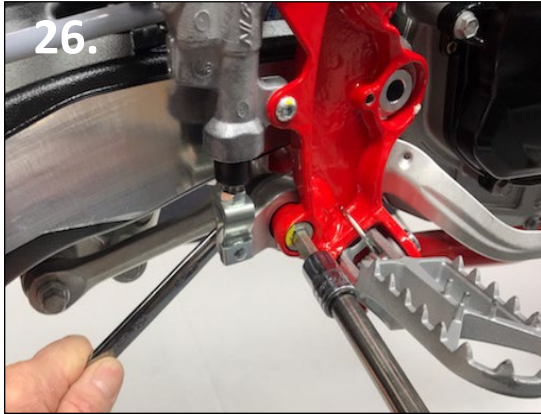
25. Install the water pump cover and the 3 bolts making sure the copper washer is on the bottom bolt. Tighten all bolts in a criss cross pattern to 10nm.



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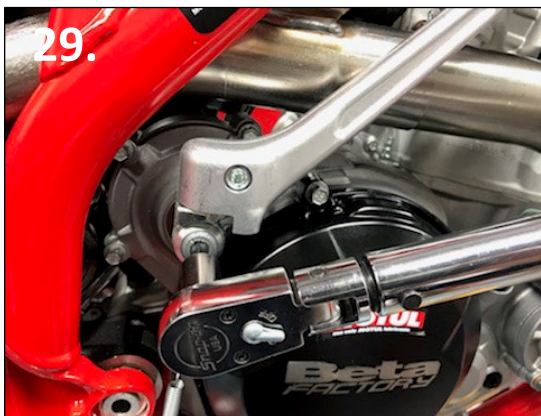
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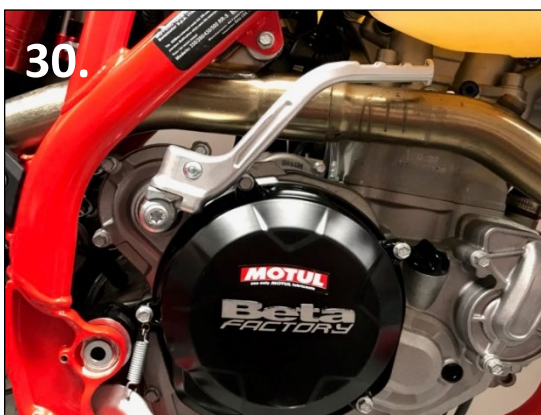
26. Install the brake pedal bolt and nut applying high strength Loctite to the threads. Re install brake pedal spring.



27. Install the transmission drain plug and torque to 20nm. Fill the transmission with 850 cc's of gear oil



29. Install the kickstart lever. Install the washer and bolt using medium strength Loctite on the threads. Torque bolt to 25nm



30. Your kickstart kit is ready for use!