



PANTHERA MOTORSPORTS

Yamaha banshee Panthera clutch - Installation guide

Basket gear installation

Place your basket primary gear on the Panthera outer clutch basket for the cushion and back plate installation.

Place the black (hard) cushion first in the left side position of each location.



With some grease to push in place the yellow (soft) cushions in place.

!!! Only use the Panthera cushions. All other brands of cushion we have tried at Panthera have failed with engines over 100hp.





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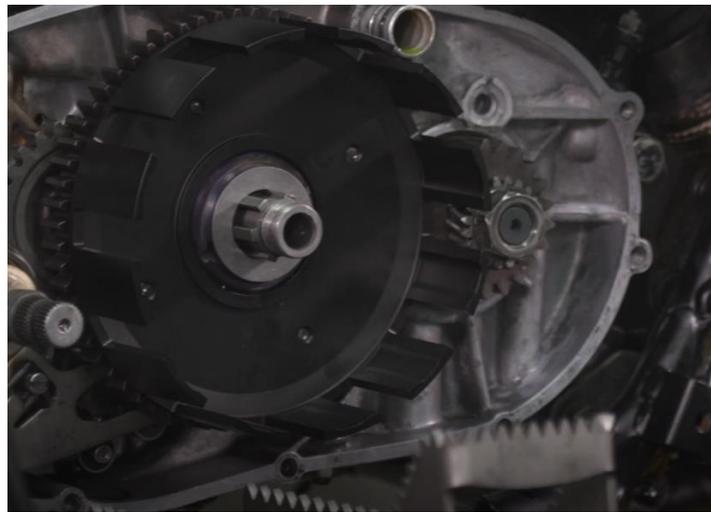
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Then install the supplied heavy duty back plate in place with the supplied bolts. Use red Loctite and torque the bolts at 145 in-lb. We recommend punching the other side of the bolts to ensure no possibility of loosening.



Clutch baskets installation

Slide the clutch basket in place and don't forget the 3mm thick washers, behind the outer basket and between the outer and inner basket.

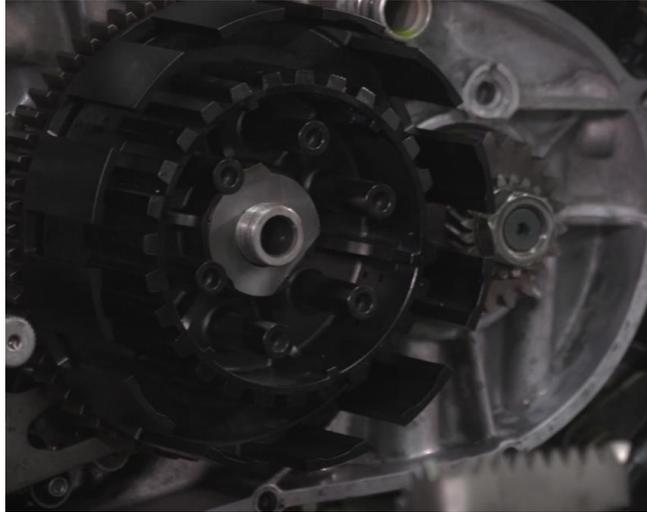




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Put the inner basket in place and install the supplied nut retainer



Place the basket nut in place and torque to 66 ft-lb. Make sure that the inner basket spins freely still.

Bend the lock washer tab on top of the nut.





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Clutch discs installation

You are now ready for the clutch discs installation. If you are using the Panthera 25 discs clutch, start by installing the basket sleeve protectors.



If you are running the 19 discs configuration you can ignore that step.

Pre-oil your clutch fiber and install them in the basket, starting with a fiber and then alternate with a steel plate and so on. We recommend the steel plate sharp edge to be put toward the engine.

With the 25 discs and the sleeve protectors, the first fibers will be tricky to place as the protectors might want to move. Once a few fibers are in, the process will be much easier.

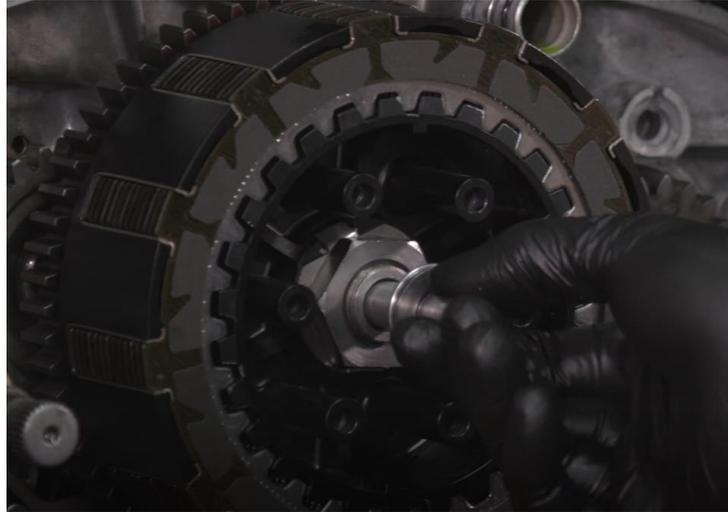




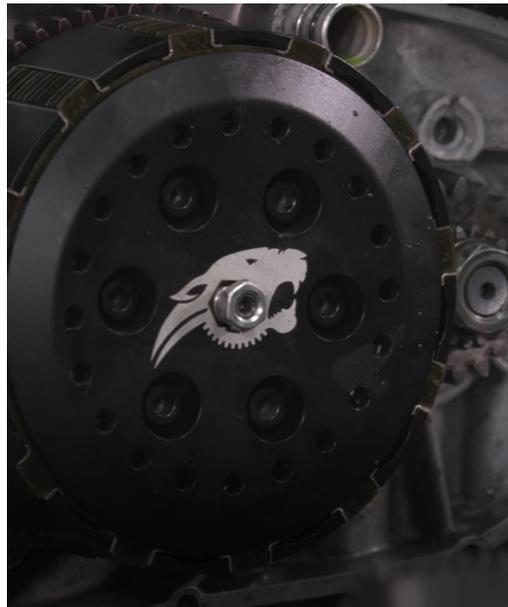
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Put the pressure plate pusher unit in place before you put the pressure plate on.



With the pressure plate in place, ensure an adjustment on the pusher screw so that you have around 0.75mm of free play to allow for clutch wear.



!!! It will be very important that you ensure you system as a significant clutch throw, as the higher number of discs running with the oil friction will tend to create more drag. You must ensure proper clutch throw to prevent drag when you are at a stop.



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Clutch springs



The Panthera clutch will allow you to run much softer springs than other clutch set ups.

Most banshee under 100hp will be able to run the OEM light springs, and even put a shim washer under the bolt for less compression and an even easier clutch pull.

If you are uncertain of the need of your banshee, start with stiffer spring and work your way down to find a low of spring stiffness you can go before it starts slipping.

Torque the spring bolts in place at 7.7 ft-lb.

You are all done. You can also watch the complete installation video on the Panthera Motorsports youtube channel.

Thank you for your trust in our product.