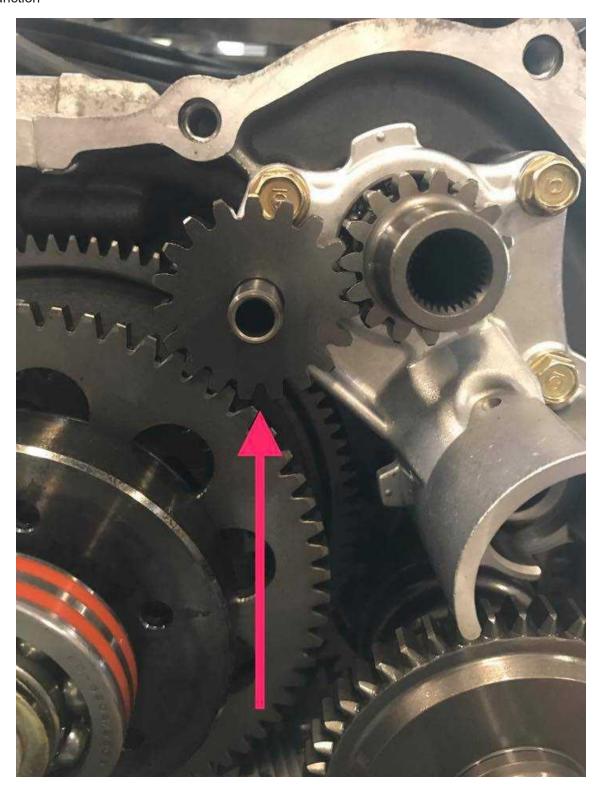
Hydrolock repair (Part 1)

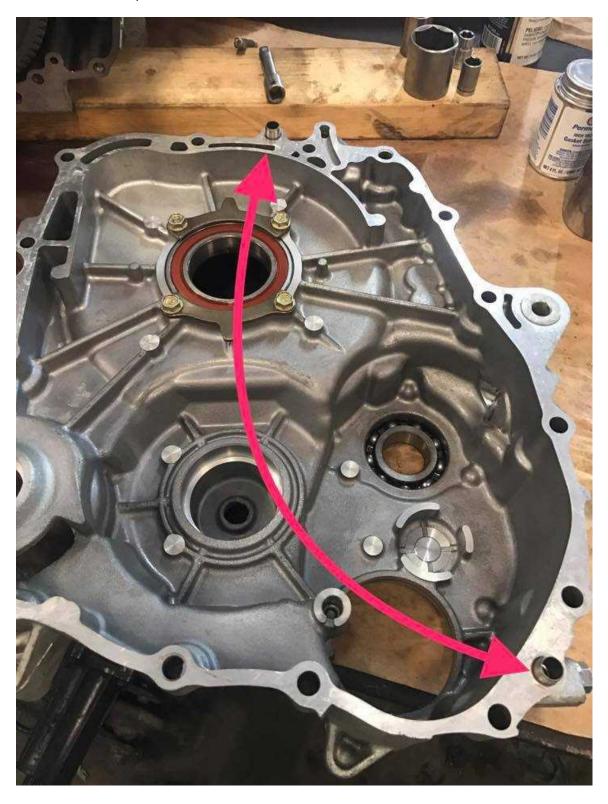
Got it all tore apart and ready to go back together



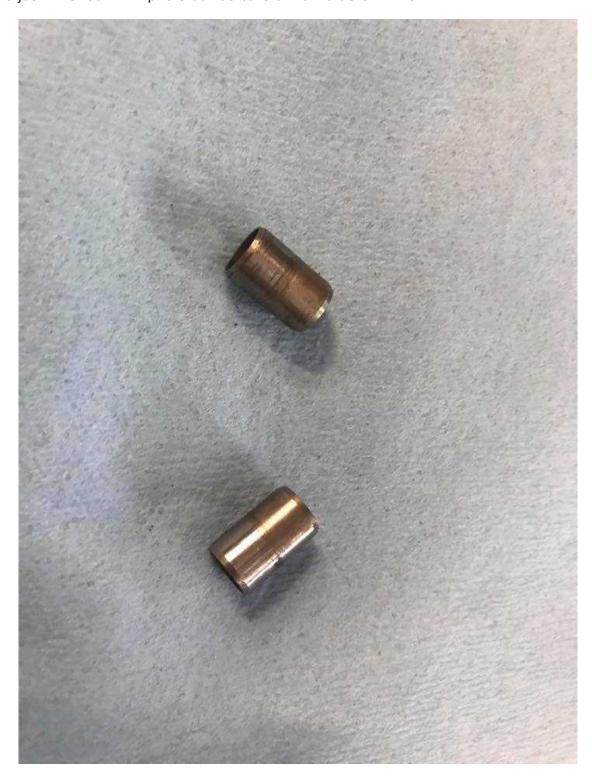
All this work for an \$18 gear that broke due to Hydrolock caused when gas leaks from the OEM petcock from a tear or debris in the diaphragm or Ethanol that has sat deforms the diaphragm cause it to malfunction



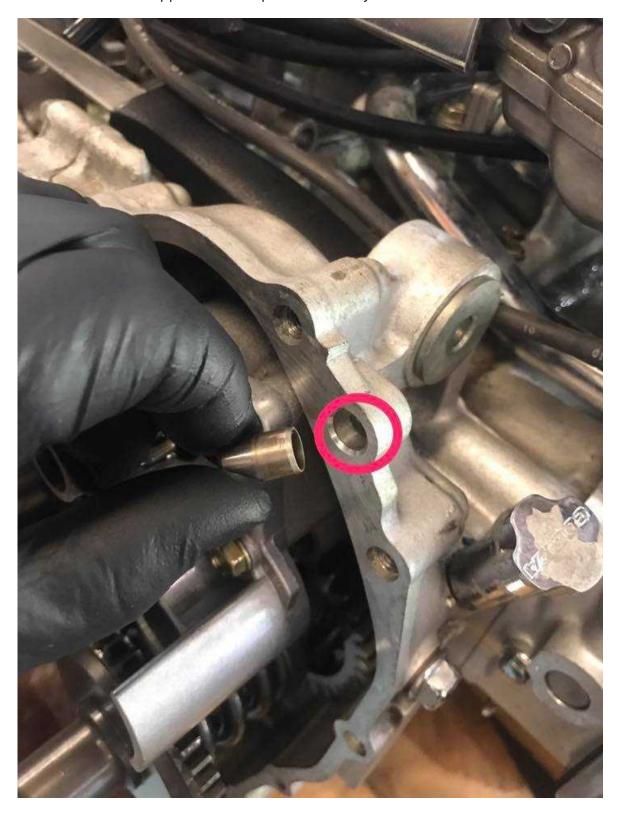
Remove these 2 dowel pins to install in the motor



Should just twist out with pliers but be careful not to deform them



Place in the dowel holes opposite of the placement they were in the case removed from

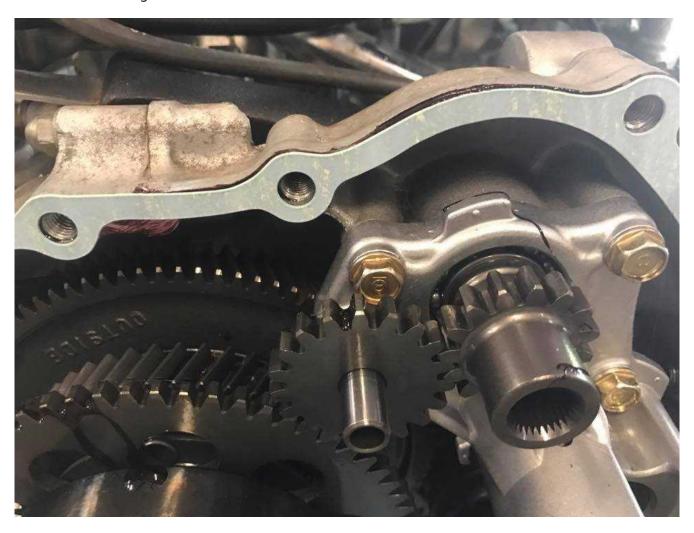




Brushed a layer on around the outer edge where the 2 parts meet



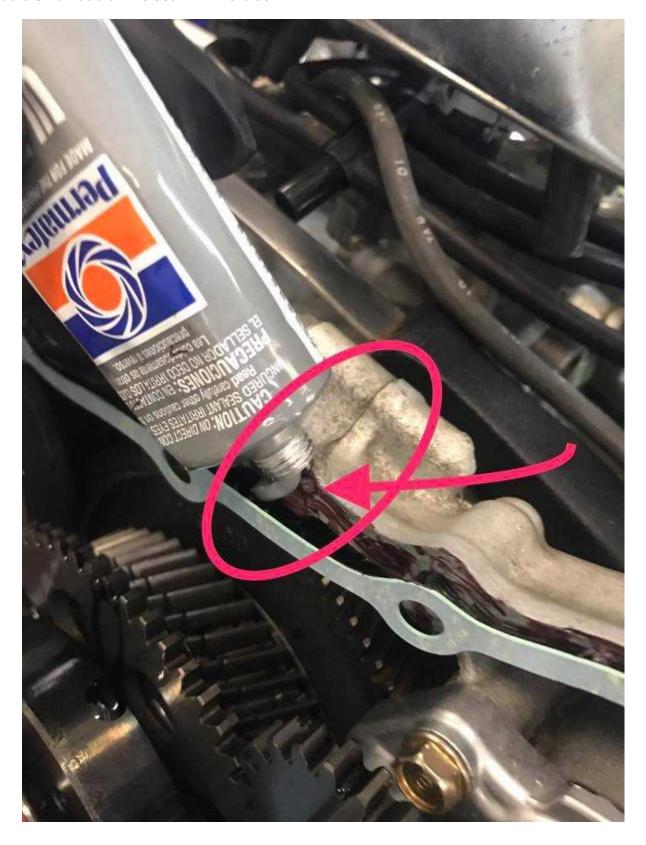
Installed the new gasket



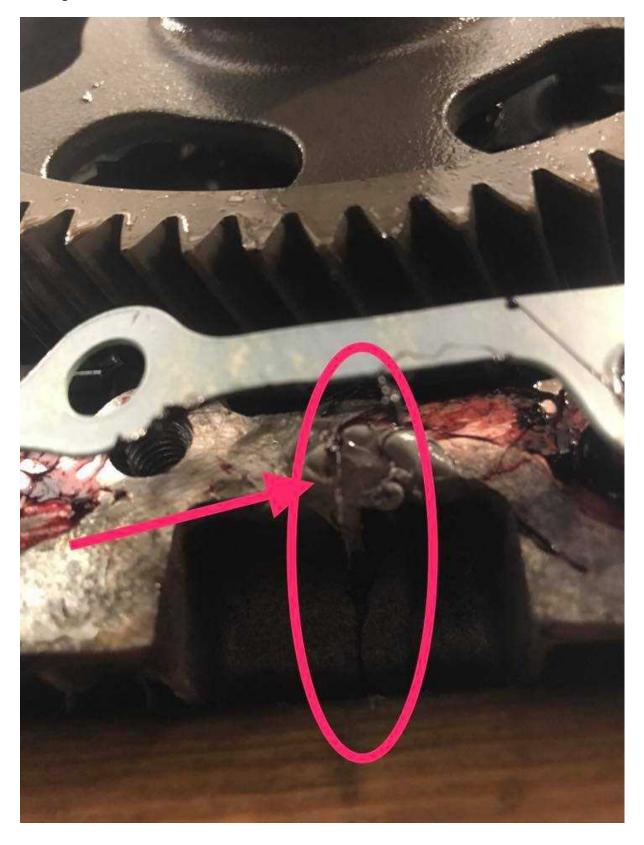
Have to use another sealant to cover the manufactures mold split in the case



Add a small dab at the seam in the block



Same thing at the bottom of the motor



Ready to install the outside cover



Double checking the oil passage holes to be sure they are clear



Line up the dowels and shafts through the case holes and push it on



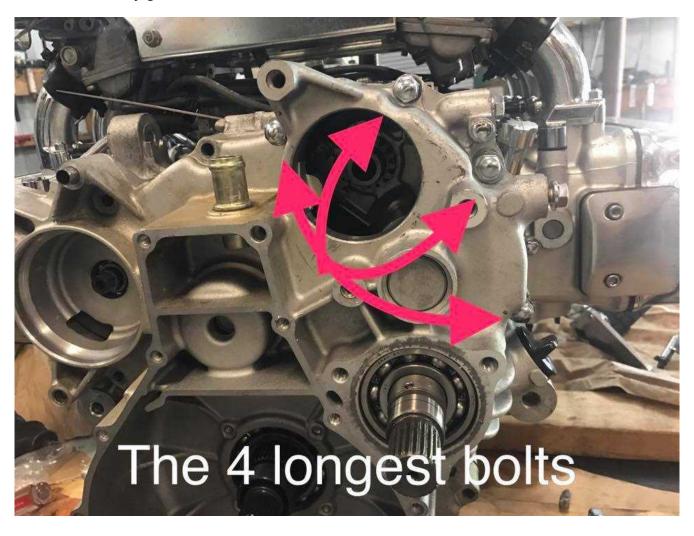
May need a little influence from a rubber hammer to get the dowel pins inserted



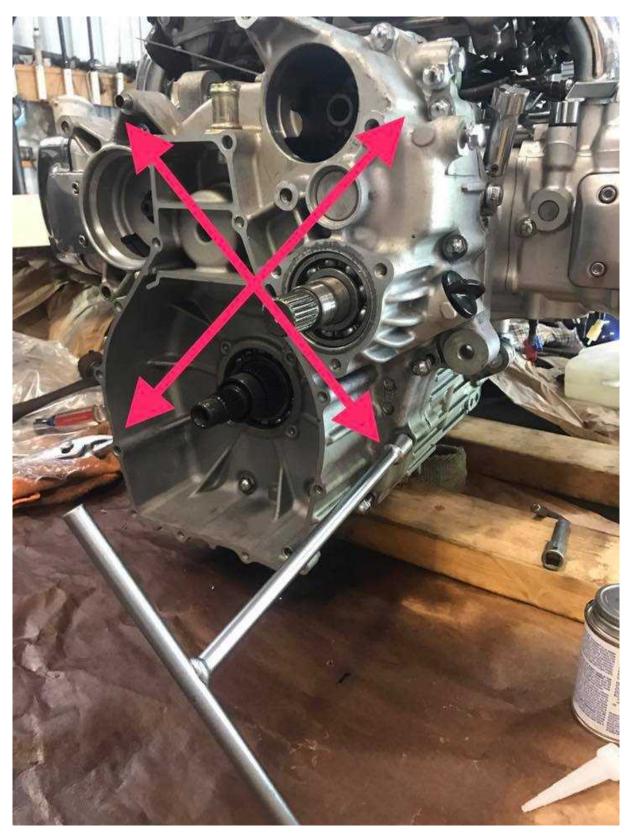
There are 4 bolts that are longer than the rest



This is where they go



Snug them all up in a criss cross pattern a little at a time so the case goes on straight and evenly



Then torque them all to 22 Ft lbs in the same criss cross pattern



Next the Clutch outer basket gets installed



The washer is marked but this was very hard to see "Outside"



Outside mark goes out



Next the lock nut



Put some serviceable Loctite on it first



Then torque it down to 137 ft. Lbs. with an 1-13/16" deep socket.

I had to make a holder to hold the basket from turning while I torqued it.

More Honda special tools now Wood Butcher special tools 😂



I named this one

WBCBHTB

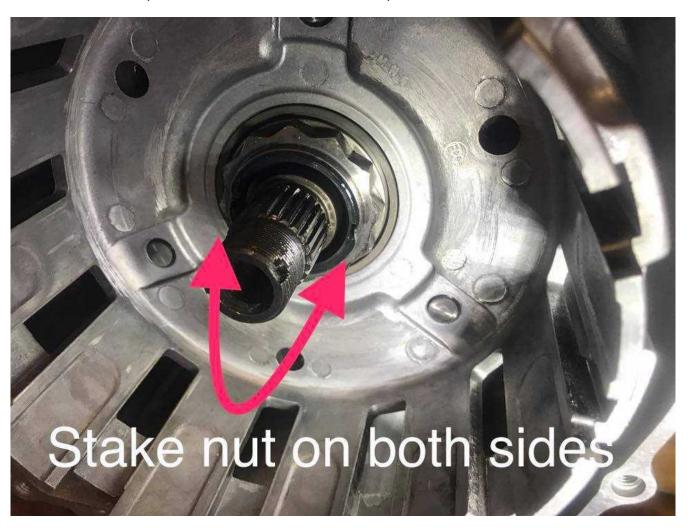
Stands for: Wood Butchers Clutch Basket Holding Thingama Bob 🛞



The WBCBHTB worked great



Once the nut is torqued stake the 2 sides to lock it in place



Add the inside splined washer



Install the scavenge pump filter



Holes down



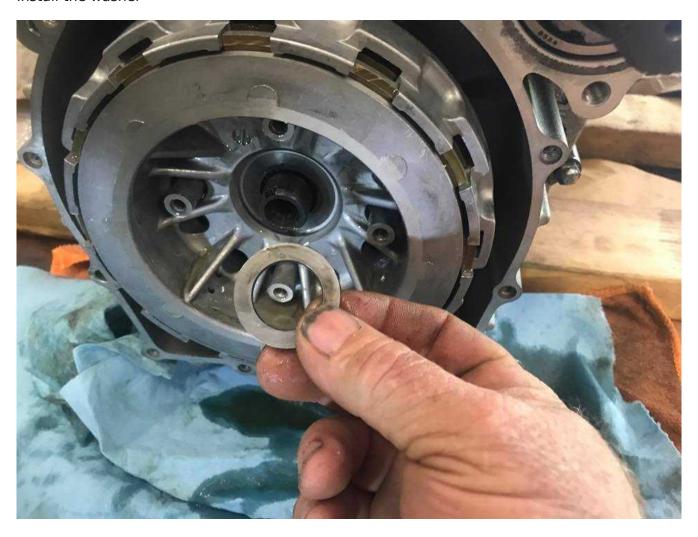
Install the Clutch pack



May have to turn the output shaft some to line the splines on the Clutch pack as you are pushing it on



Install the washer



Add some loctite to the nut



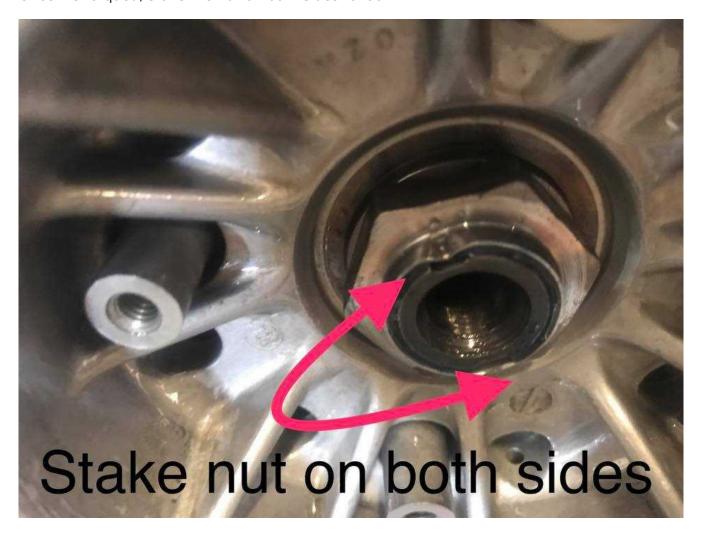
I used a 1-1/4" socket



And had to use the u joint and pry bar method on the output shaft to hold it from turning as I torqued it to 94 Ft. Lbs.



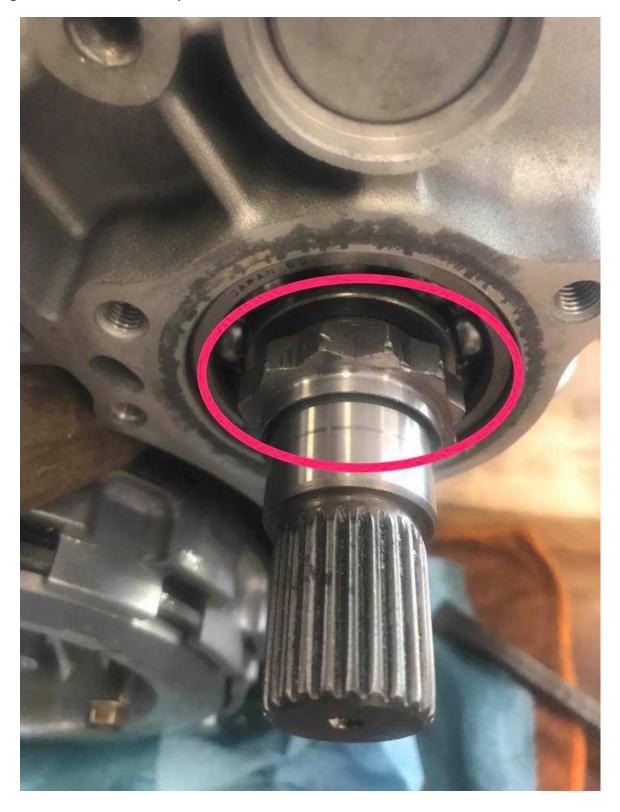
Once it's torqued, stake the nut on both sides to lock it



Add some loctite to the output shaft nut next



And get it started on the output shaft



I ran out of options here and used the handle of a wire brush wedged in the Clutch basket to hold it while torquing the output shaft. I should have torqued this before putting the Clutch pack in I reckon?

