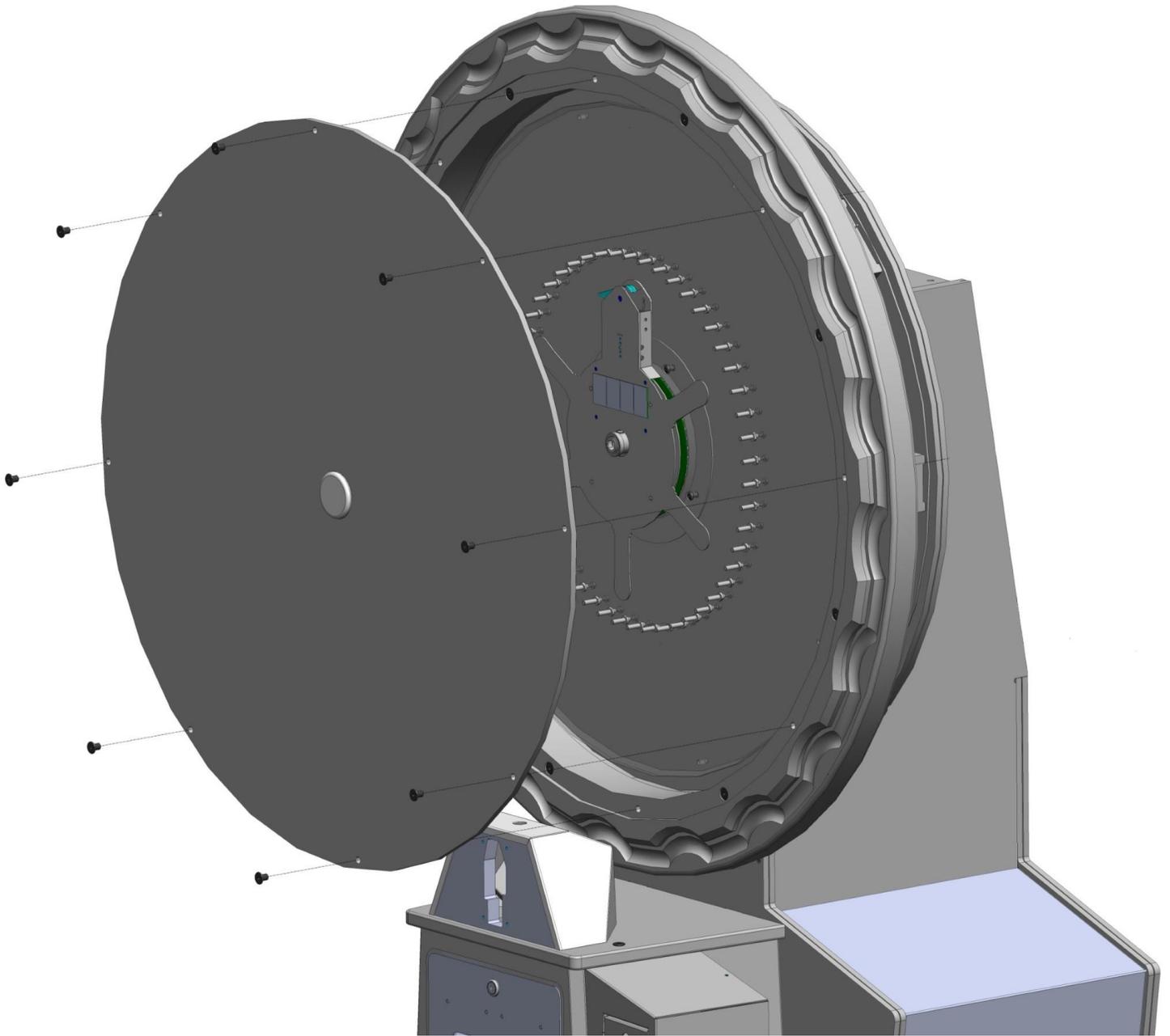


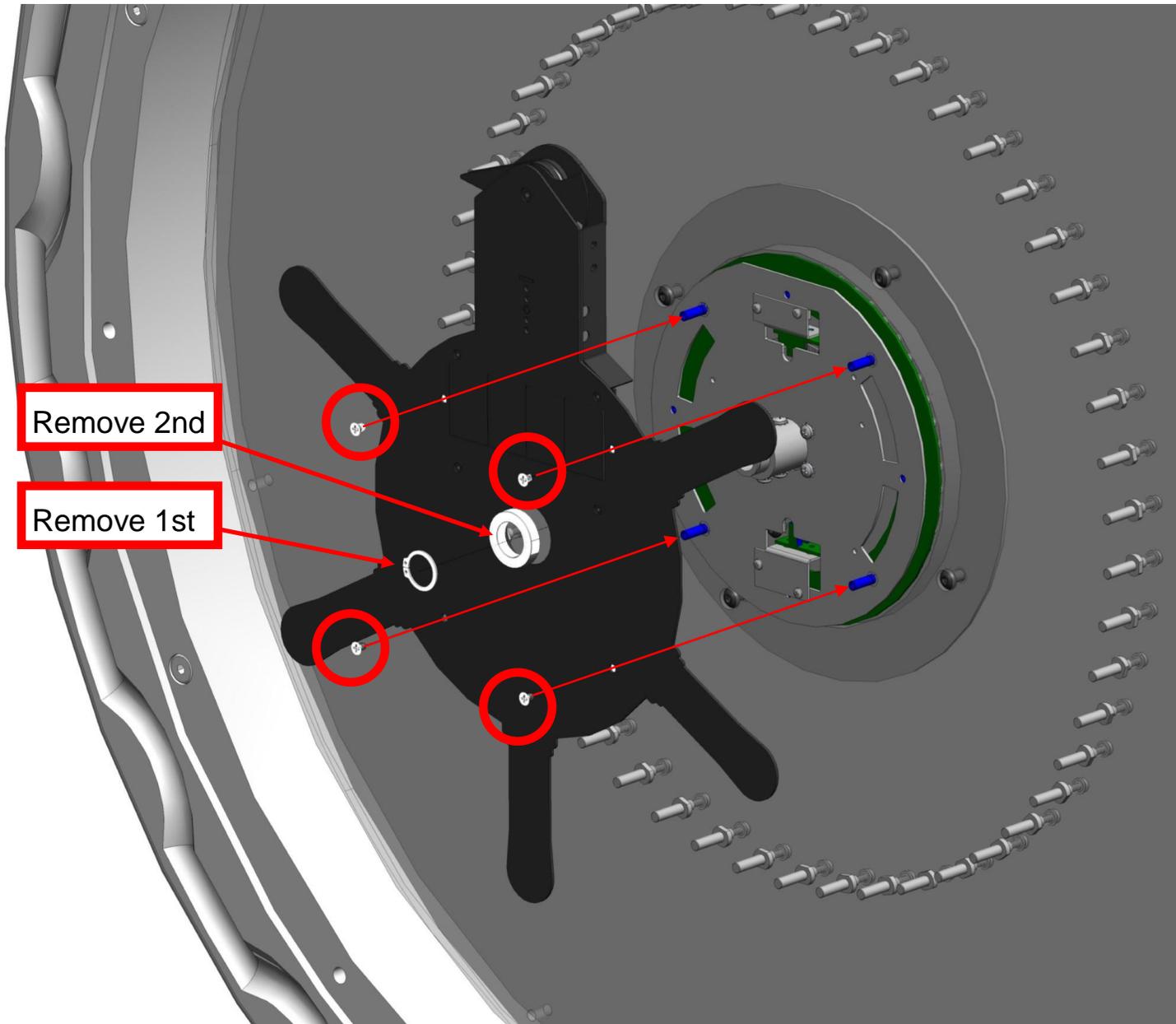
## Front Plastic Removal

Remove the inserts that hold the plastic cover onto the wheel. Always work from the top until there is only one holding the plastic front onto the wheel. Keep rotating the wheel to the next insert. When the last insert is removed be careful when removing the plastic as it can become scratched if dropped. Put inserts and plastic aside.



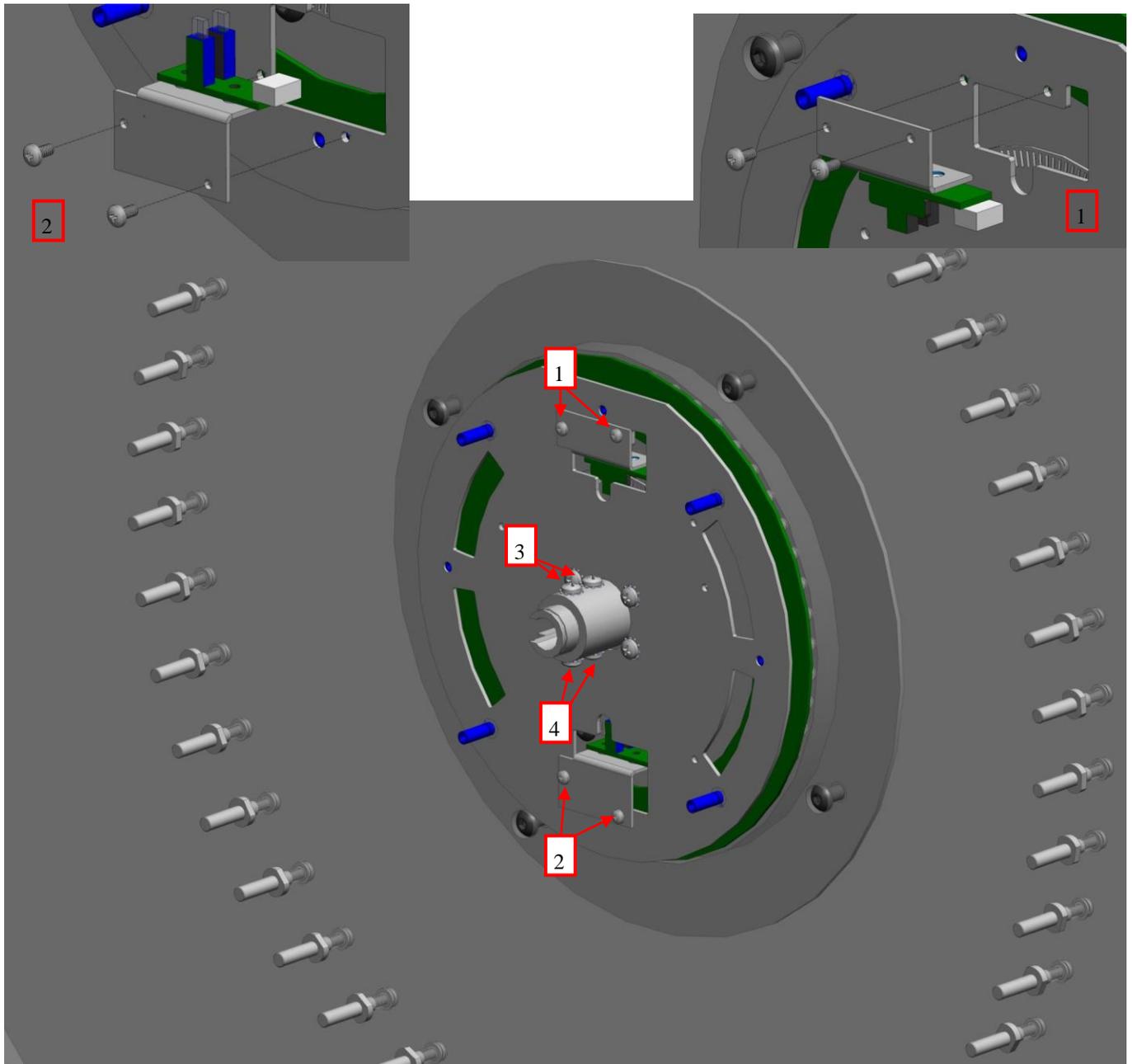
## Helm Removal

See box marked remove 1st. Be careful not to lose the snap ring when removing. Now remove the bearing, it just slides out. See box marked remove 2nd. Next remove the four Phillips screws (they are circled below) and then slide the assembly slightly back just enough to disconnect the two wire harnesses connecting under the helm. BE CAREFUL WHEN PULLING THEM OUT AS THEY ARE VERY FRAGILE. Now you can slide the helm out and put aside.

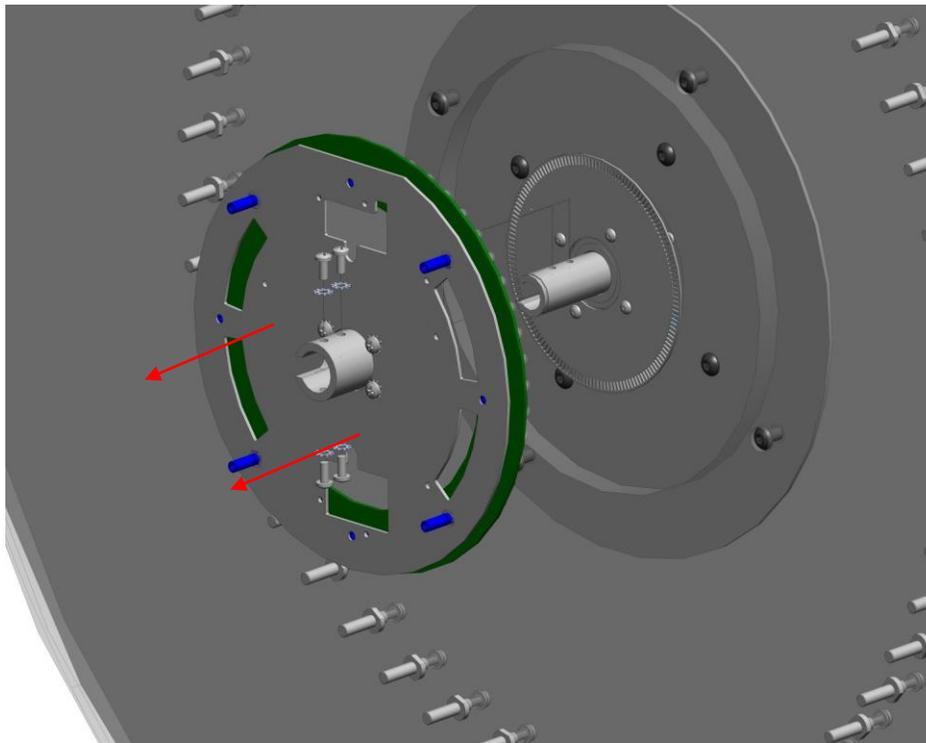


## Wheel encoder removal

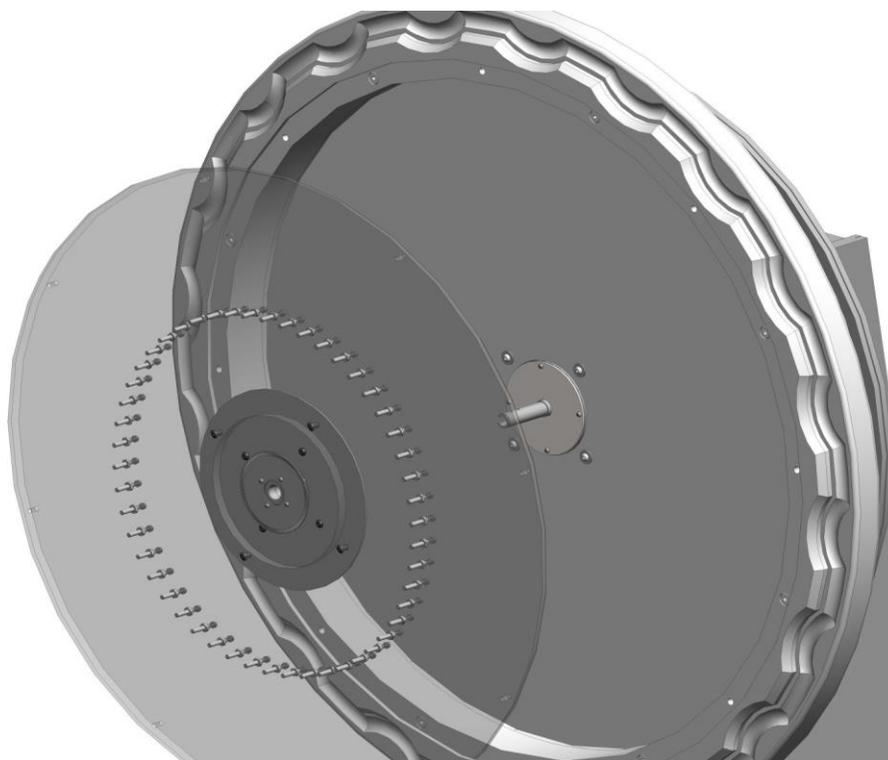
Start by removing the two mounting screws that hold the sensor assembly labeled 1 below. Put screws aside and carefully lift out the sensor assembly but do not remove it. Remove the other two screws that hold the bottom sensor assembly labeled 2 and put the screws aside. Carefully lift out the sensor assembly but do not fully remove. Now remove the four screws holding the sensor ring board on labeled 3 and 4.



Slide the LED board out slightly and disconnect the two wire harnesses. Be sure to position the center wires so that they are straight out the shaft. Now fully slide out the ring board and put aside.



Slide the entire wheel off and put aside. When you remove the wheel assembly, be careful of any shims installed from the back as they tend to stick to the wheel assembly.



Place the wheel on a soft flat surface to avoid damage. Remove the 4 small screws circled in red holding the encoder wheel to the clutch plate. Remove the encoder wheel and screws and put aside.

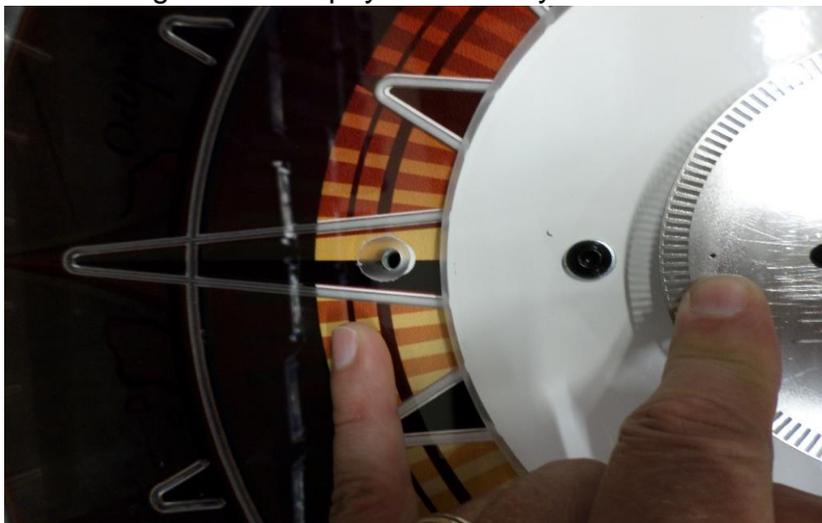


Next remove the 4 screws circled in red, these hold the clutch plate to the white inner wheel.



Remove the existing clutch plate from the wheel assembly, align the new clutch plate and reinstall the white inner wheel using the existing hardware.

When reinstalling the encoder wheel to the clutch plate, the home position dot must align with the bonus diamond on the wheel. If this is installed improperly it will cause the game not to payout correctly.



Reassemble game in reverse order.