

2014+ Sea Doo Spark Impeller & Wear Ring

SKU(s): 903FS0002 (Wear Ring), 903FS0001 (12/14 Impeller)

INCLUDED PARTS

(1) Stainless Steel Wear Ring

(1) Stainless Impeller

REQUIRED TOOLS

Metric Sockets and Wrenches

Torque Wrench

Grease

Impeller Spline Tool









Step 1: If your spark is equipped with IBR system, remove the (3) 13mm head screws. The top left screw has a nyloc nut on the back. Do not lose the stainless-steel bushings.



Figure 1



Figure 2

Step 2: Turn the nozzle and remove the steering linkage. Use 2 10mm sockets.

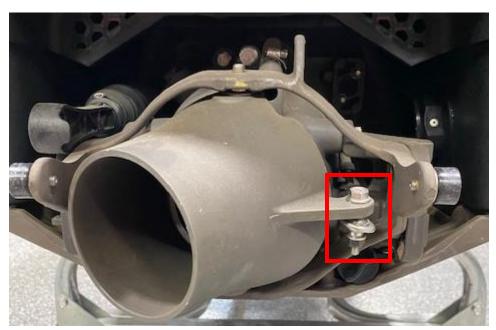


Figure 3





Step 3: With a 1/4" socket loosen the worm drive holding the siphon tube onto the jet pump. Remove the siphon tube.



Figure 4

Step 4: With a 12" extension and swivel you can access the (3) jet pump screws.





Figure 6

Figure 5





Step 5: Once hardware is removed, wiggle the jet pump out of the hull and driveshaft.





Step 6: With the jet pump on a work area, remove and inspect the wear ring.



Figure 8



Figure 9





Step 7: Loosen and remove the (3) venturi screws. Remove venturi from pump.

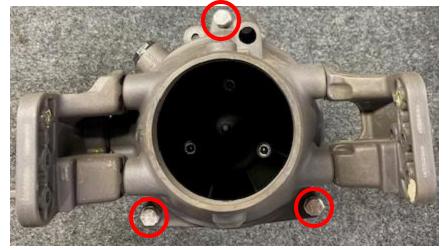


Figure 10

Step 8: Remove the (3) Allen screws holding the impeller cone on. 5mm Allen.

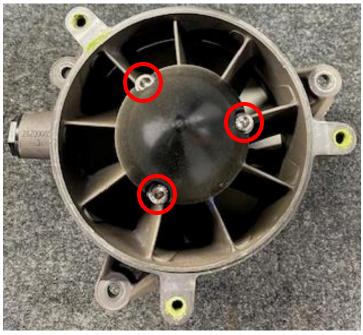


Figure 11





Step 9: Remove the impeller cone, you may need to pry with a screwdriver.



Figure 12

Step 10: Install the two flat spots into a vice. Clamp tight. Install the impeller spline tool **WR001** Into the impeller. Loosen the impeller with a breaker bar. Spin the impeller off.



Figure 13



Figure 14





Step 11: With the impeller removed, grease up the jet pump shaft, threads and new impeller O-ring and threads.



Figure 15

Figure 16



Step 12: Install the new impeller and spine onto the jet pump threads. Install the spline tool and torque down to 92 ft-lbs.

Figure 17





Step 13: Remove the spline tool, grease the impeller splines and rubber boot. Install the rubber boot.



Figure 18

Step 14: Grease the bottom of the jet pump, o rings and cone. Reinstall the cone. Torque screws to 80 in-lbs and apply blue Loctite.



Figure 19





Step 15: Reinstall the venturi onto the jet pump. Torque to 18 ft-lbs and apply blue Loctite to the threads.



Figure 20

Step 16: Remove the OEM wear ring seal. Apply grease on the o ring and install onto the new stainless steel wear ring.



Figure 21





Step 17: Apply a light amount of grease onto the inside of the wear ring and slide onto the jet pump. This helps for initial start up.



Figure 22

Step 18: Apply grease on the drive shaft, wear ring seal groove and O-ring on the far left tube.

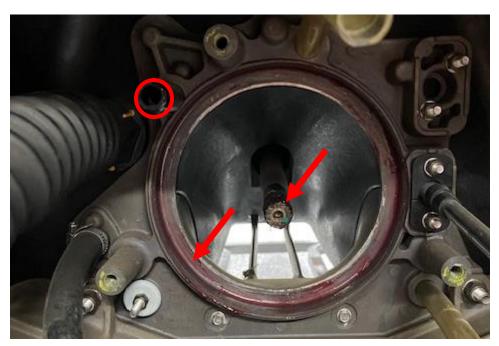


Figure 23





Step 19: Install the jet pump back into the hull. Use your fingers to line up the drive shaft splines to the impeller. Make sure the wear ring seal is seated properly. Torque jet pump screws to 19 ft-lbs.



Figure 24

Step 20: Reinstall the IBR system if equipped and steering linkage. Start the machine, and listen for abnormal noise. If you hear noise, reinstall the jet pump.

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