

How To Replace an Impeller in a 6x5 Pump Assembly



Before performing maintenance on a 6x5 pump assembly, be sure to read and follow the Installation, Operation and Maintenance Manual. Follow the appropriate lockout/tagout/blockout procedures, and read and follow all safety tags. Failure to do so could result in injury or death.



WHAT YOU WILL NEED:

- Assembly aid arm or lifting device
- Corresponding wrench and socket set
- J wrench or crescent wrench
- Replacement impeller
- Replacement O-ring
- Anti-seize

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- STEP 1** Switch off the power to the pump, and lock the switch in the off position to ensure no power can get to the machine while replacing the impeller.
 - STEP 2** Remove the drain plug from the suction side of the pump.
 - STEP 3** Disconnect the discharge hose from the top of the pump.
 - STEP 4** Disconnect the suction hose from the front of the pump.
 - STEP 5** Remove the shaft guard.
 - STEP 6** Attach an assembly aid arm or lifting device to the eye bolt located at the top of the suction-side casing.
 - STEP 7** Remove the nuts from the suction-side casing.
 - STEP 8** Lift the casing away from the pump using the assembly aid arm or lifting device. The liner should come out with the casing. Inspect the liner for wear or damage.
 - STEP 9** Hold the shaft in place with a J wrench or a crescent wrench placed around the flat area between the gland and the flinger.
 - STEP 10** Unscrew the impeller from the shaft.
 - STEP 11** Remove the O-ring from the shaft.
 - STEP 12** Insert a new O-ring.
 - STEP 13** Apply anti-seize to the impeller threads.
 - STEP 14** Reverse the position of the J wrench or crescent wrench on the shaft.
 - STEP 15** Screw the new impeller onto the shaft, ensuring there is 1/8" clearance between the impeller and the suction-side casing.
 - STEP 16** Remove the J wrench or crescent wrench from the shaft.
 - STEP 17** Use the assembly aid arm or lifting device to lift the suction-side casing back into place.
 - STEP 18** Secure the casing with bolts, torquing to recommended specifications.
 - STEP 19** Remove the assembly aid arm or lifting device from the eye bolt.
 - STEP 20** Replace the shaft guard.
 - STEP 21** Reconnect the suction hose.
 - STEP 22** Reconnect the discharge hose.
 - STEP 23** Reinsert the drain plug.
 - STEP 24** Restore power to the pump.