



How To Remove a Blower Impeller

The purpose of this document is to explain how to safely and properly install a blower impeller.

Tools Needed:

- Torque wrench (set to 20 Ft-lbs)
- 3/8" drive socket extensions
- 3/8" drive 1/2" impact socket
- 3/8" drive 9/16" impact socket
- 3/8" drive 7/16" impact socket
- Electric impact
- Rubber mallet
- Safety gloves
- Safety glasses



Procedure:

1. Verify Impeller Rotation

1. Ensure the selected impeller is the correct rotation for the respective blower (housings with nozzle on the right-hand side will need a clockwise impeller. Housings with nozzle on the left-hand side will need a counterclockwise impeller).

2. Prepare The Motor Shaft

1. Ensure the keyway is installed on the motor shaft.
2. Inspect the shaft and keyway for wear or debris. Address any damage before proceeding.
3. Set the shaft orientation so the keyway is at the 12 o'clock position. This will make installing the impeller much easier.

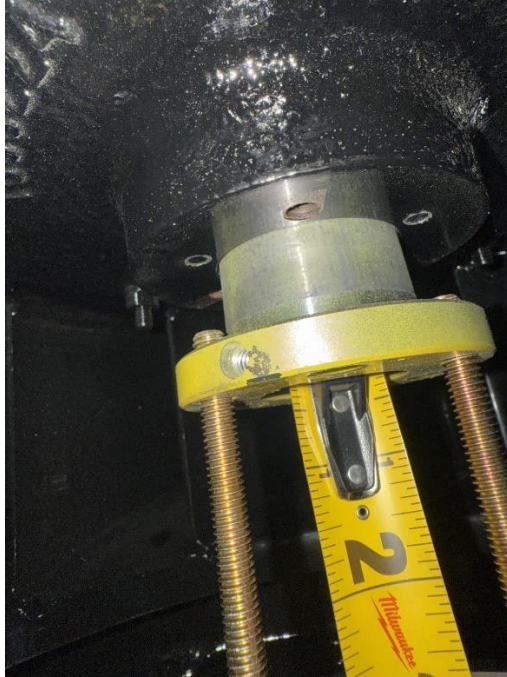
3. Prepare The Taper Lock Hub

1. Loosen all bolts on the taper lock hub. Do NOT remove the bolts all the way.
2. Pull the taper lock free so that you can move it back and forth in the impeller.

4. Install The Impeller

1. Align the key on the motor shaft with the keyway in the taper lock.
2. Carefully slide the impeller assembly onto the shaft.

3. Push the impeller on until the shaft is recessed no more than 1/2" into the hub as seen in the picture below.



4. Adjust impeller position for proper depth and alignment within housing.

5. Tighten The Taper Lock Bolts

1. Tighten the taper lock bolts by hand in a clockwise pattern to evenly seat the hub.
2. Make multiple light passes, gradually increasing bolt tension.
3. Use a torque wrench to final torque all bolts to 20 ft-lbs.

4. Verify that the impeller is fully seated and spins freely without contact (example of fully seated impeller below).



6. Final Checks

1. Double-check torque on all taper lock bolts.
2. Manually rotate the impeller to ensure no interference.
3. Record impeller installation details on the work order or inspection log.

Instructional Video:

https://tommycarwash.sharepoint.com/:v:/s/SupportDept-ServiceandSupport/EfukJDq0Mf1Mkt_YFQ4iChEBUQs-JNzsywePFo-eRPlzfw?e=E9Vngm



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