

COMBUSTION IMPELLER 3-20-502221

INSTALL INSTRUCTIONS

Replaces MPNs: 3-20-502221

Before Installing

- **ALWAYS** unplug the unit before beginning any work
 - Allow the unit to cool completely if recently used
 - Work in a well-lit area with proper tools
 - Ensure there are no pellets in the hopper assembly
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Installation Steps

1. Always disconnect the power to the stove before attempting any service.
2. Remove any necessary service panels to gain access to the combustion blower impeller. The impeller may need to be accessed through the front of the stove in some models by removing the impeller cover in or under the firebox.
3. Remove the impeller from the stove by loosening or removing the Allen key set screw on the side of the fan shaft. It will be a 7/32" hole with a 5/32" threaded Allen key that can be found by spinning the paddles around until you can visibly locate the set screw. It is helpful to spray the set screw with plenty of penetrating oil prior to applying any force to the set screw.
 - If the set screw strips and many often do if they have not been turned out in years, the set screw may need to be drilled out if you can access it with a drill. If the combustion blower is going to be changed during the process, the shaft of the combustion blower can be cut and replaced with a new motor and impeller.
 - If you need to cut the shaft of the motor, a hand-held hacksaw blade is recommended. The shaft needs to be long and narrow because it needs to fit between the motor's cooling fan and the stove wall from behind the stove. You will also need to jam a screwdriver or

something between the impeller and stove wall in the fire box to keep the shaft from spinning as you cut through the shaft. This same process may need to be done for stoves that use a removable motor hub but it will be easier because the whole assembly can be removed from the stove when cutting.

4. Install the new impeller to the motor shaft.
5. Reattach all removed service panels and close up the stove.

Reconnect your stove to power to test if the stove (and blower) is functioning properly)

Post-Installation Check

- Verify all connections are secure
 - Ensure all wiring is not in proximity of moving parts
 - Test motor operation before closing panels
 - Check for any unusual noises or vibrations
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Support

If you encounter any issues during installation, consult your owner's manual or contact technical support via our [contact form](#).